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

Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. DPR-71 and DPR-62
Docket Nos. 50-325 and 50-324

Catawba Nuclear Station, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. NPF-35 and NPF-52
Docket Nos. 50-413 and 50-414

Shearon Harris Nuclear Power Plant, Unit 1
Renewed Facility Operating License No. NPF-63
Docket No. 50-400

McGuire Nuclear Station, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. NPF-9 and NPF-17
Docket Nos. 50-369 and 50-370

Oconee Nuclear Station, Unit Nos. 1, 2 and 3
Renewed Facility Operating License Nos. DPR-38, DPR-47 and DPR-55
Docket Nos. 50-269, 50-270 and 50-287

H. B. Robinson Steam Electric Plant, Unit 2
Renewed Facility Operating License No. DPR-23
Docket No. 50-261

SUBJECT: Annual Radiological Environmental Operating Report - 2023

Ladies and Gentlemen:

Duke Energy Carolinas, LLC and Duke Energy Progress, LLC (collectively referred to as Duke Energy), in accordance with Technical Specification (TS) 5.6.2 for Brunswick Steam Electric Plant Units 1 and 2 (BNP), TS 5.6.2 and Selected Licensing Commitment (SLC) 16.11-16 for Catawba Nuclear Station Units 1 and 2 (CNS), TS 6.9.1.3 for Shearon Harris Nuclear Power Plant Unit 1 (HNP), TS 5.6.2 and SLC 16.11.16 for McGuire Nuclear Station Units 1 and 2 (MNS), TS 5.6.2 and SLC 16.11.10 for Oconee Nuclear Station Units 1, 2, and 3 (ONS), and TS 5.6.2 for H. B. Robinson Steam Electric Plant Unit 2 (RNP), is submitting the Annual Radiological Environmental Operating Reports (AREORs) for the period from January 1, 2023, through December 31, 2023. The AREORs are provided in Enclosures 1 through 6.

No regulatory commitments are contained in this submittal.

U.S. Nuclear Regulatory Commission
RA-24-0031
Page 2

Please refer any questions concerning this letter and its enclosures to Ryan Treadway, Director, Nuclear Fleet Licensing, at (980) 373-5873.

Sincerely,

A handwritten signature in black ink, appearing to read 'KEVIN ELLIS', with a long horizontal stroke extending to the right.

Kevin Ellis
General Manager, Nuclear Regulatory Affairs, Policy & Emergency Preparedness

Enclosures:

1. [BNP Annual Radiological Environmental Operating Report](#)
2. [CNS Annual Radiological Environmental Operating Report](#)
3. [HNP Annual Radiological Environmental Operating Report](#)
4. [MNS Annual Radiological Environmental Operating Report](#)
5. [ONS Annual Radiological Environmental Operating Report](#)
6. [RNP Annual Radiological Environmental Operating Report](#)

cc: (all Enclosures unless specified)

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Enclosure 1
RA-24-0031

ENCLOSURE 1: [BNP Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**DUKE ENERGY PROGRESS, LLC
BRUNSWICK STEAM ELECTRIC PLANT**

2023



TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-1
2.3 Statistical and Calculational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-2
3.2 Surface Water	3-6
3.3 Ground Water	3-8
3.4 Milk	3-10
3.5 Broadleaf Vegetation	3-11
3.6 Fish and Invertebrates	3-13
3.7 Shoreline Sediment	3-14
3.8 Direct Gamma Radiation	3-16
3.8.1 Environmental TLD	3-16
3.8.2 ISFSI	3-17
3.9 Land Use Census	3-23
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-2
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 State of North Carolina Intercomparison Program	4-2
4.7 TLD Intercomparison Program	4-2

APPENDICES

Appendix A: Environmental Sampling & Analysis Procedures	A-1
I. Change of Sampling Procedures	A-2
II. Description of Analysis Procedures	A-3
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program - Summary of Results	B-1
Air Particulate	B-2
Air Radioiodine	B-2
Broadleaf Vegetation	B-2
Fish and Invertebrates	B-2
Shoreline Sediment	B-2
Surface Water	B-3
Ground Water	B-3
Direct Gamma Radiation (TLD)	B-3
Direct Gamma Radiation (TLD) ISFSI	B-3
Footnotes to Appendix B	B-4

Appendix C: Sampling Deviations & Unavailable Analyses	C-1
C.1 Sampling Deviations	C-2
C.2 Unavailable Analyses	C-3
Appendix D: Analytical Deviations	D-1
D.1 Analytical Deviations	D-1
Appendix E: Radiological Environmental Monitoring Program Results 2023	E-1
Appendix F: Errata to Previous Reports	F-1
F.1 Errata to the Previous AREORs	F-2

LIST OF FIGURES

2.1-1A	BSEP Environmental Sample Locations - One mile radius (ODCM Revision 39).	2-4
2.1-1B	BSEP Environmental Sample Locations - One mile radius (ODCM Revision 40).	2-5
2.1-2A	BSEP Environmental Sample Locations (Ground Water Only)-One mile radius (ODCM Revision 39).	2-6
2.1-2B	BSEP Environmental Sample Locations (Ground Water Only)-One mile radius (ODCM Revision 40).	2-7
2.1-3A	BSEP Environmental Sample Locations - Ten mile radius (ODCM Revision 39).	2-8
2.1-3B	BSEP Environmental Sample Locations - Ten mile radius (ODCM Revision 40).	2-9
2.1-4A	BSEP Environmental Sample Locations – Twenty-Five mile radius (ODCM Revision 39).	2-10
2.1-4B	BSEP Environmental Sample Locations – Twenty-Five mile radius (ODCM Revision 40).	2-11
3.1	Concentration of Gross Beta in Air Particulate	3-3
3.2	Concentration of Tritium in Surface Water	3-6
3.5	Concentration of Cs-137 in Broadleaf Vegetation	3-11
3.7	Concentration of Cs-137 in Shoreline Sediment	3-14
3.8	Direct Gamma Radiation (TLD) Results	3-18
3.9	Brunswick Nuclear Plant 2023 Land Use Census Map	3-26

LIST OF TABLES

2.1-A-1	Radiological Monitoring Program Sampling Locations (ODCM Revision 39).	2-12
2.1-A-2	Radiological Monitoring Program Sampling Locations (ODCM Revision 40).	2-14
2.1-B-1	Radiological Monitoring Program Sampling Locations (TLD Sites) (ODCM Revision 39).	2-16
2.1-B-2	Radiological Monitoring Program Sampling Locations (TLD Sites) (ODCM Revision 40).	2-17
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-18
2.2-B	REMP Analysis Frequency	2-18
2.2-C	Detection Capabilities for the <i>A PRIORI</i> Lower Limit of Detection	2-19
3.1-A	Mean Concentration of Gross Beta in Air Particulate	3-4
3.1-B	Mean Concentration of Air Radioiodine (I-131)	3-5
3.2	Mean Concentration of Tritium in Surface Water	3-7
3.3	Mean Concentration of Tritium in Ground Water	3-9
3.5	Mean Concentration of Radionuclides in Broadleaf Vegetation (pCi/kg)	3-12
3.7	Mean Concentration of Radionuclides in Shoreline Sediment	3-15
3.8-A	Direct Gamma Radiation (TLD) Results	3-19
3.8-B	BSEP TLD Results (1972-1994)	3-20
3.8-C	BSEP TLD Results (1995-2023)	3-21
3.8-D	ISFSI TLD Dose	3-22
3.9-A	Land Use Census Comparison (2022-2023).	3-24
3.9-B	BSEP Garden Census (2023)	3-25
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2023 Environmental Dosimeter Cross-Check Results	4-5

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

A	Annually
AP	Air Particulate
AR	Air Radioiodine = Air Cartridge
AREOR	Annual Radiological Environmental Operating Report
BO	Benthic Organisms
BSEP	Brunswick Steam Electric Plant
C	Control
CM	Community
CR	Condition Report (analogous to Nuclear Condition Report (NCR))
EZA	Eckert & Ziegler Analytics, Inc.
GEL	General Engineering Laboratories, LLC.
GPS	Global Positioning System
GW	Ground water
I	Indicator
IR	Inner Ring - TLDs
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
LUC	Land Use Census
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mrem	Millirem
mR/Std Qtr	milliroentgen per standard quarter
MSL	Mean sea level
NIST	National Institute of Standards and Technology
NCR	Nuclear Condition Report (analogous to Condition Report (CR))
NRC	Nuclear Regulatory Commission
OD	Ocean discharge
ODCM	Offsite Dose Calculation Manual
OR	Outer Ring - TLDs
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
PMAC	Projected Maximum Annual Concentration
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SDSP	Storm Drain Stabilization Pond
SH	Shellfish
SI	Special Interest - TLDs
SW	Surface Water
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report (AREOR) describes the Brunswick Steam Electric Plant (BSEP) Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels, pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by plant operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed.

Sampling activities were conducted as prescribed by the BSEP Offsite Dose Calculation Manual (ODCM). One-thousand-four-hundred-sixty-four samples were analyzed comprising 1,464 test results to compile data for the 2023 BSEP Annual Radiological Environmental Operating Report. Based on the annual BSEP land use census, there were no changes required to the BSEP REMP.

Concentrations observed in the environment in 2023 for station related radionuclides were within the ranges of concentrations observed in the past. Inspection of the data showed that radioactivity concentrations were as expected and positively identified measurements attributable to plant operation were within limits as specified in the BSEP ODCM. Measured concentrations, including tritium, were not higher than expected and all positively identified measurements attributable to station operation were within limits as specified in the BSEP ODCM and regulatory limits. The radiological environmental data for 2023 indicates that radioactivity concentrations and all positively identified measurements attributable to BSEP operations in 2023 were within limits as specified in the BSEP ODCM, thus presenting no significant impact on the environment or public health and safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy's Brunswick Steam Electric Plant (BSEP) is located in Brunswick County, North Carolina, approximately 16 miles south of Wilmington, North Carolina. The site is along state route 87 approximately two and a half miles north of Southport, North Carolina. The community of Boiling Spring Lakes is about three miles northwest of the site. The towns of Caswell Beach and Oak Island are on a barrier island south of the plant.

The Brunswick Steam Electric Plant consists of two boiling water reactors with a design rating of 2923 megawatts thermal. Commercial production was initiated by Unit 2 on November 3, 1975, and by Unit 1 on March 18, 1977.

The Cape Fear River is east of the plant and cooling water is drawn from the river through a canal. The cooling water and plant liquid effluents are both discharged to the Atlantic Ocean through a canal, pumping station, and piping. The discharge point is south of the town of Caswell Beach. The plant site varies in elevation from sea level to 30 feet above mean sea level (MSL) and is surrounded by extensive marshes.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and land use surveys. Additional locations were selected and identified as controls because they are unlikely to be affected by plant operations. Figures 2.1-1, 2.1-2, 2.1-3, and 2.1-4 are maps depicting BSEP sampling locations and the Thermoluminescent Dosimeter (TLD) monitoring locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B.

The Brunswick centerline waypoint used for GPS measurements in figures 2.1-1A, 2.1-2A, 2.1-3A, and 2.1-4A is latitude: 33°57'29.88" North and longitude: 78°0'37.08" West for ODCM Revision 39. The Brunswick centerline waypoint used for GPS measurements in figures 2.1-1B, 2.1-2B, 2.1-3B, and 2.1-4B is latitude: 33°57'24.3" North and longitude: 78°0'33.9" West for ODCM Revision 40. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within one tenth mile from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using two significant figures.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

A Radiological Environmental Monitoring Program (REMP) has been in effect at BSEP, and the preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring, which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the BSEP Offsite Dose Calculation Manual (ODCM), with regards to sample media, sampling locations, sampling frequency and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of plant origin from natural or other “man-made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from BSEP. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule. The Annual Land Use Census, required by the BSEP ODCM, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Tables 3.9-A and 3.9-B.

Participation in an interlaboratory comparison program is performed in fulfillment of BSEP ODCM Operational Requirement provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. “Net activity (or concentration)” is the activity (or concentration) determined to be present in the sample. No “Minimum Detectable Activity”, “Lower Limit of Detection”, “Less Than Level”, or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

x_i = net activity (or concentration) for sample i.

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the REMP.

LLD - The LLD, as defined in the Offsite Dose Calculation Manual (ODCM), is the smallest concentration of radioactive material in an unknown sample that will yield a net count, above the system background, that will be detected with 95% probability with a 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the ODCMs and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the 2011 Japan earthquake and tsunami, which triggered the Fukushima Dai-ichi Nuclear Power Plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1A

BSEP Environmental Sampling Locations – One mile radius (ODCM Revision 39)

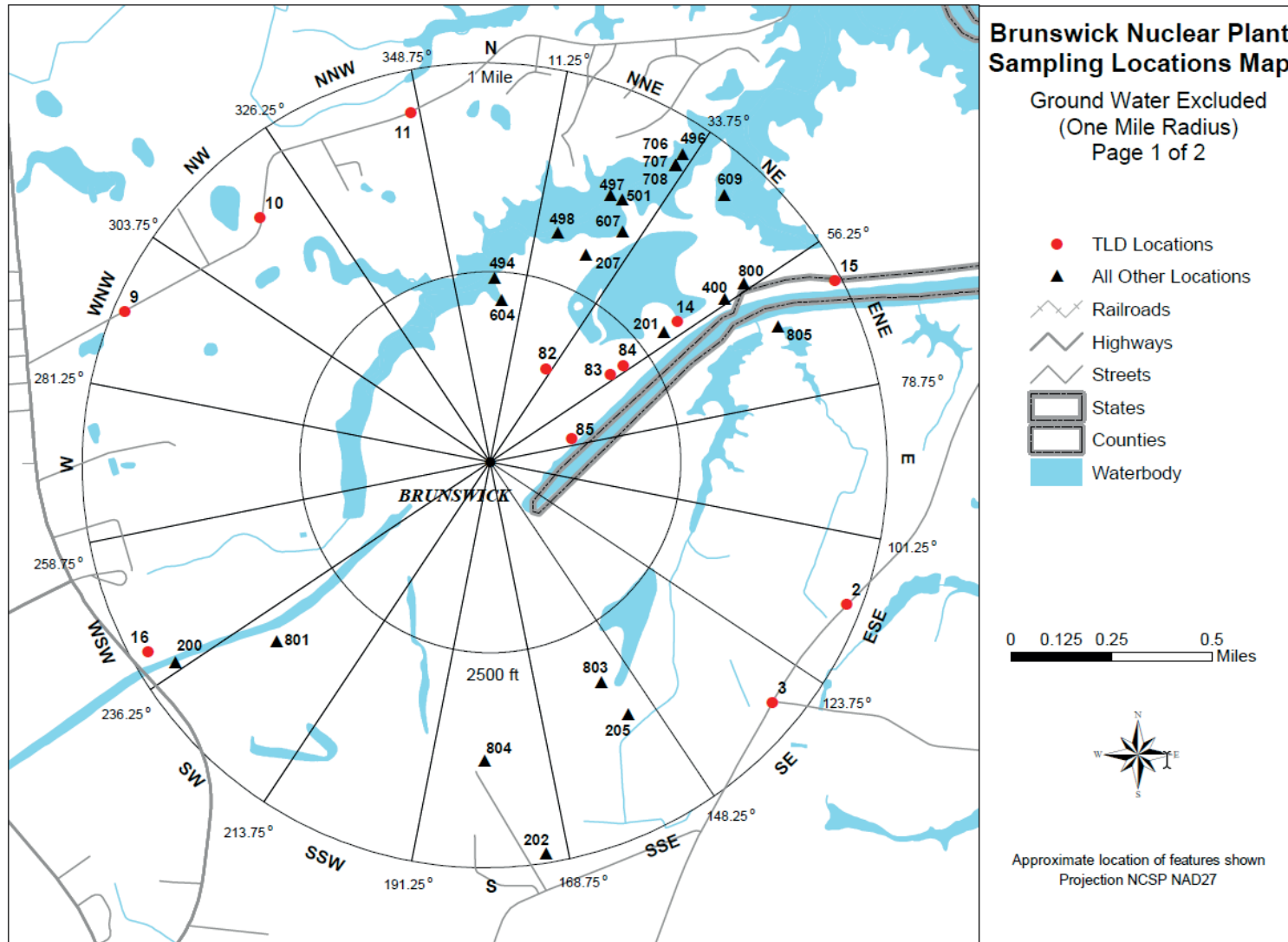


Figure 2.1-1B

BSEP Environmental Sampling Locations – One mile radius (ODCM Revision 40)

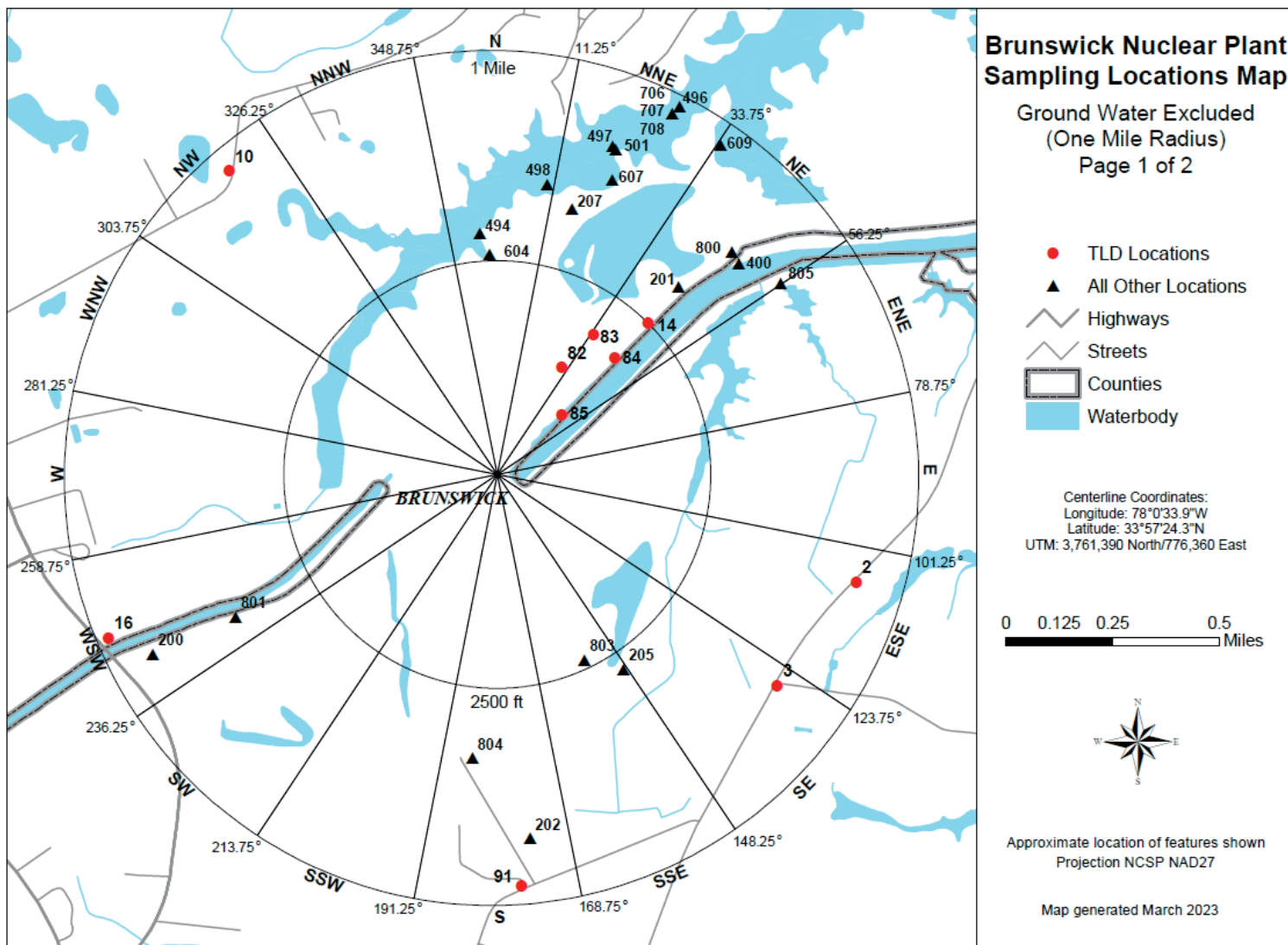


Figure 2.1-2A

BSEP Environmental Sampling Locations (Ground Water Only) - One mile radius (ODCM Revision 39)

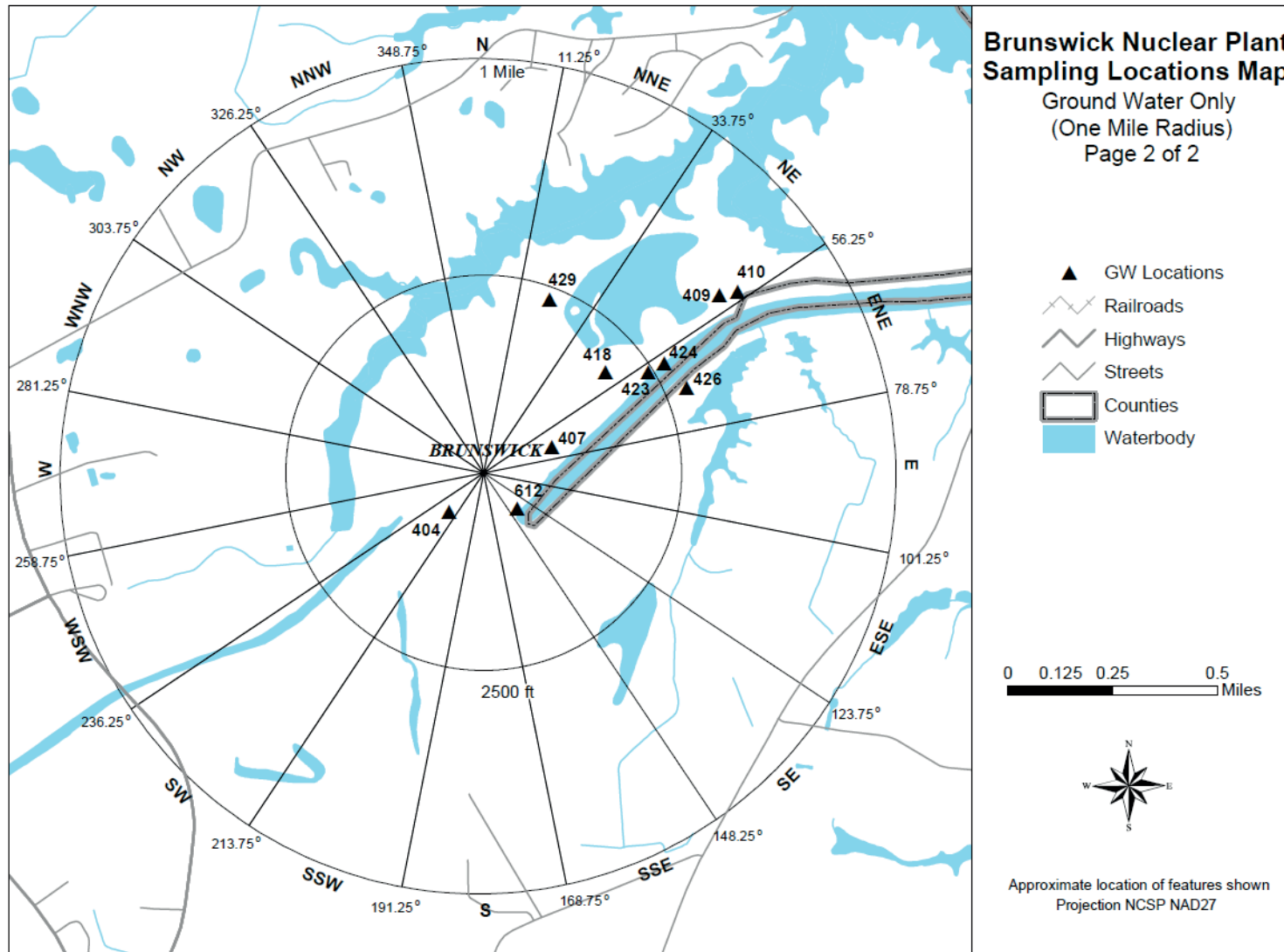
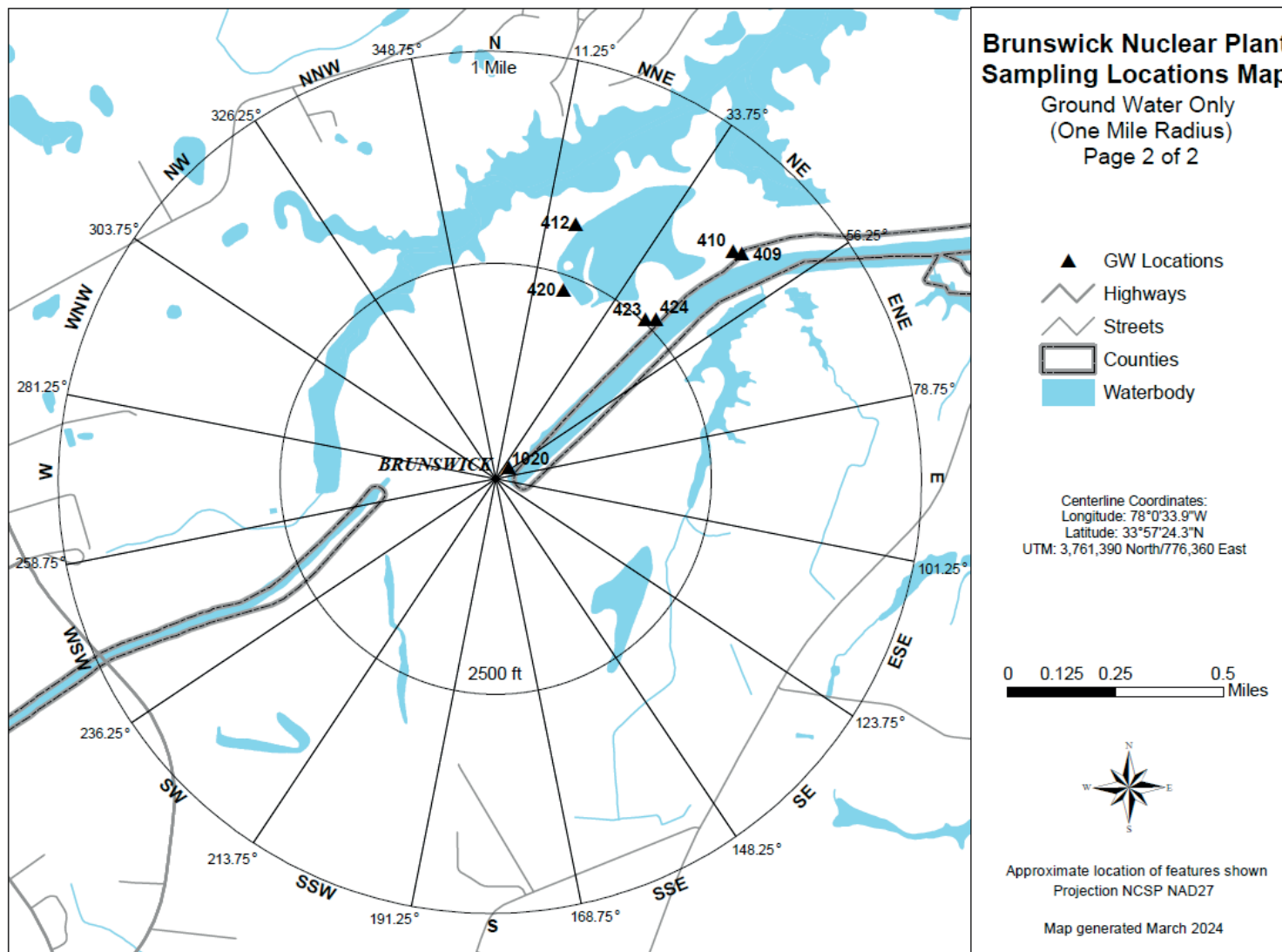


Figure 2.1-2B

BSEP Environmental Sampling Locations (Ground Water Only) - One mile radius (ODCM Revision 40)⁽¹⁾



(1) Map in ODCM Revision 40 contains the incorrect centerline. This is the correct map. (DDR# 02509684)

Figure 2.1-3A

BSEP Environmental Sample Locations - Ten mile radius (ODCM Revision 39)

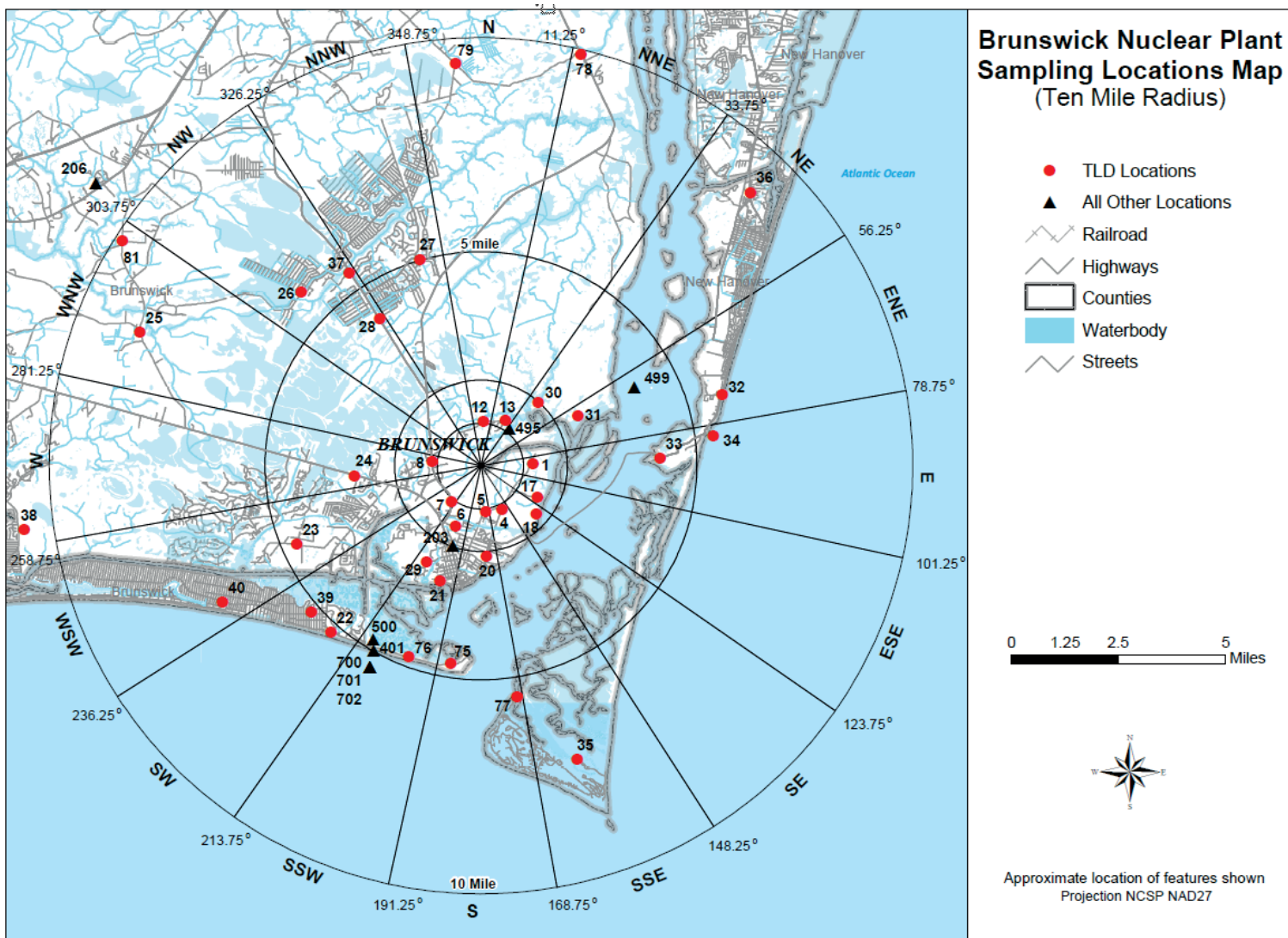


Figure 2.1-3B

BSEP Environmental Sample Locations - Ten mile radius (ODCM Revision 40)

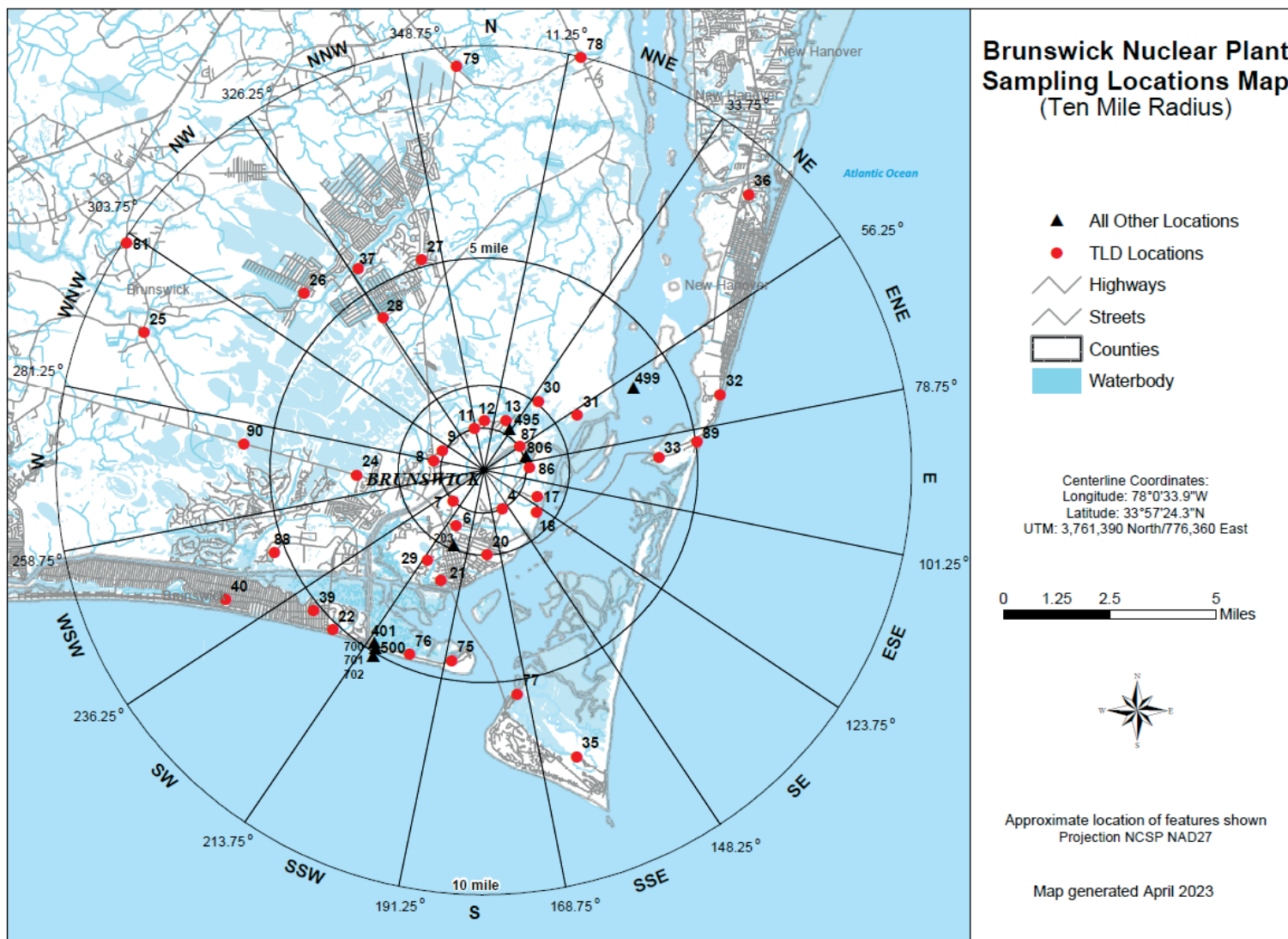


Figure 2.1-4A

BSEP Environmental Sample Locations – Twenty-Five mile radius (ODCM Revision 39)

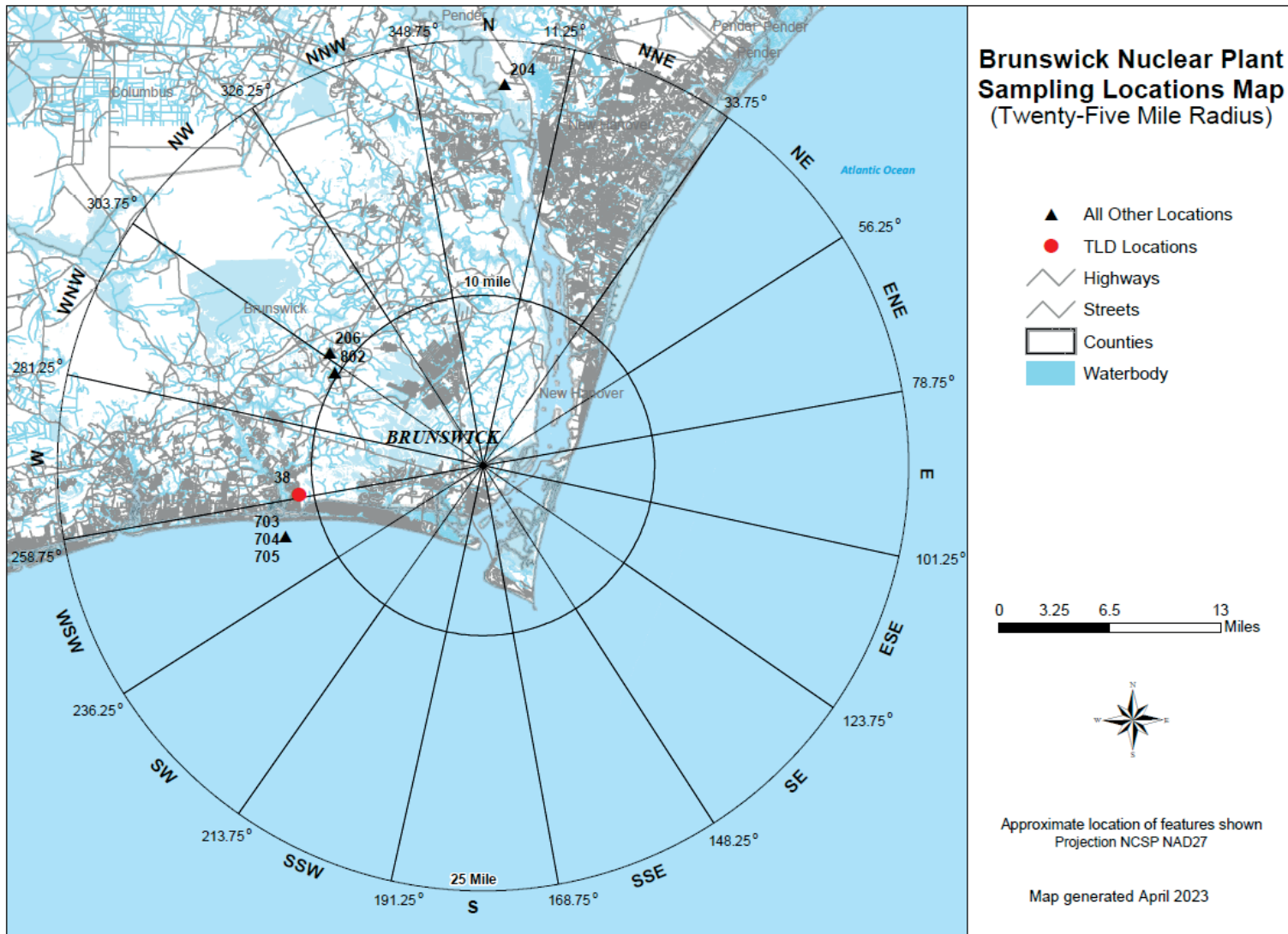


Figure 2.1-4B

BSEP Environmental Sample Locations – Twenty-Five mile radius (ODCM Revision 40)

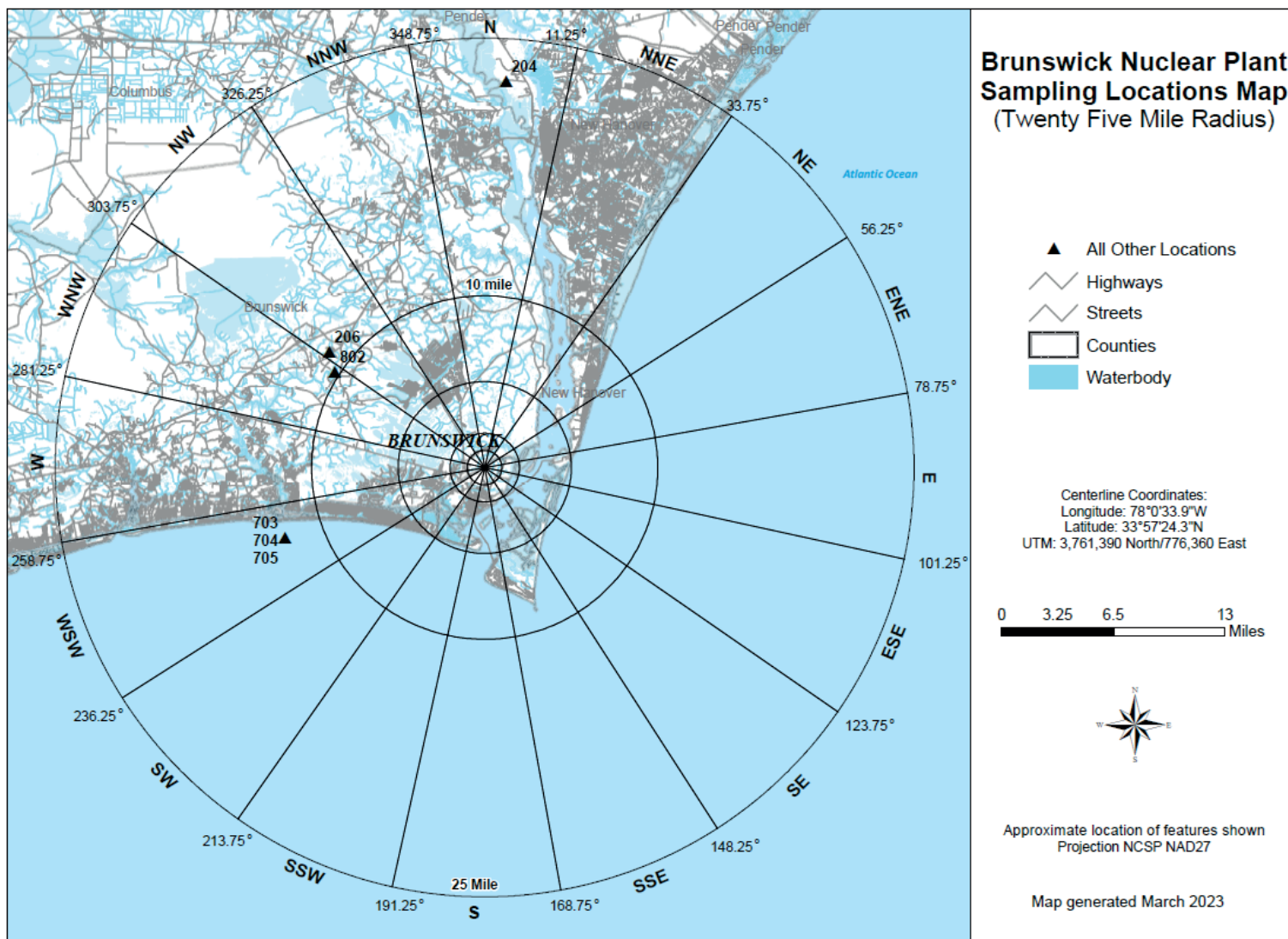


TABLE 2.1-A-1

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM REVISION 39

Table 2.1-A Codes			
A	Annually	SA	Semiannually
C	Control ^(d)	SB	Site Boundary
CM	Community	SDSP	Storm Drain Stabilization Pond
I	Indicator	W	Weekly
M	Monthly	WP	Waypoint
Q	Quarterly		

Site#	Type	Location Description ^(h)	Air Radiiodine & Air Particulate	Surface Water ^(e)	Shoreline Sediment	Fish ^(c)	Broadleaf Vegetation	Ground Water
200	I	1.0 miles WSW – Visitors Center	W/Q, SB					
201	I	0.5 miles NE – Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC)	W/Q, SB					
202	I	1.0 mile S – Substation, Construction Rd.	W/Q, SB					
203	I	2.0 miles SSW – Southport Substation	W/Q, CM					
204	C	22.4 miles N ^{(i) (j)} – Sutton Plant (Historical Control)	W/Q					
205	I	0.6 miles SSE – Spoil Pond	W/Q, SB					
206	C	11.3 miles NW – Brunswick County Complex ⁽ⁱ⁾	W/Q					
207	I	0.65 miles NNE – GWE Compressor Building ⁽ⁱ⁾	W/Q, SB					
400	C	0.6 miles NE – Intake Canal		M				
401	I	4.9 miles SSW – Discharge Canal @ OD Pumps		M				
404	I	0.16 miles SW, Monitoring Well ESS-1B						Q/SA
407	I	0.06 miles ENE, Monitoring Well ESS-13B						Q/SA
409	I	0.65 miles NE, Monitoring Well ESS-17A						Q/SA
410	I	0.65 miles NE, Monitoring Well ESS-17B						Q/SA
418	I	Monitoring Well ESS-21B, Near SDSP						Q/SA
423	I	Monitoring Well ESS-24A, Near SDSP						Q/SA
424	I	Monitoring Well ESS-24B, Near SDSP						Q/SA
426	I	Monitoring Well ESS-25B, Near SDSP						Q/SA
429	I	Monitoring Well ESS-27A, Near SDSP						Q/SA
494	I	Nancy's Creek Marsh Area – WP-106		M				
495	I	Nancy's Creek – WP-52		M				
496	I	Nancy's Creek – WP-53		M				
497	I	Nancy's Creek – WP-55		M				
498	I	Nancy's Creek – WP-57		M				
499	C	Control Station – WP-61		M				
500	I	5.0 miles SSW – Discharge – Beach near OD Pumps			SA			
501	I	Nancy's Creek, Adjacent to WP-55, Near SDSP			A			
604	I	Nancy's Creek Marsh Area – WP-92		M				
607	I	Nancy's Creek Marsh Area – WP-76		M				
609	I	Nancy's Creek Marsh Area – WP-84		M				
612	I	Monitoring Well ESS MWPA-118B, Near Intake Canal and Plant Stack						Q/SA
700	I	5.5 miles SSW – Atlantic Ocean @ discharge (Free Swimmer)				SA ^{(b)(c)}		
701	I	5.5 miles SSW – Atlantic Ocean @ discharge (Bottom Feeders)				SA ^{(b)(c)}		
702	I	5.5 miles SSW – Atlantic Ocean @ discharge (Shellfish/Invertebrates)				SA ^{(b)(c)}		
703	C	Atlantic Ocean; location not specified (Free Swimmer)				SA ^{(b)(c)}		
704	C	Atlantic Ocean; location not specified (Bottom Feeder)				SA ^{(b)(c)}		
705	C	Atlantic Ocean; location not specified (Shellfish/Invertebrates)				SA ^{(b)(c)}		

TABLE 2.1-A-1 (Continued)

Site#	Type	Location Description ^(h)	Air Radioiodine & Air Particulate	Surface Water ^(e)	Shoreline Sediment	Fish ^(c)	Broadleaf Vegetation	Ground Water
706	I	Nancy's Creek; location not specified (Free Swimmer)				A ^(b)		
707	I	Nancy's Creek; location not specified (Bottom Feeder)				A ^(b)		
708	I	Nancy's Creek; location not specified (Shellfish/Invertebrates)				A ^(b)		
800	I	0.7 miles NE – Intake Canal					M ^(a) , SB	
801	I	0.8 miles SW – Discharge Canal					M ^(a) , SB	
802	C	10.1 miles WNW					M ^(a)	
803	I	0.6 miles SSE – Spoil Pond					M ^(a) , SB	
804	I	0.7 miles S – Leonard Street plant exit adjacent to RR tracks					M ^(a) , SB	
805	I	0.8 miles ENE – East Intake Canal ⁽ⁱ⁾					M ^(a) , SB	

(a) When Available

(b) Edible Portions

(c) When in Season

(d) Control Station – These stations are presumed to be outside the influence of plant effluents.

(e) A sample of one free swimmer, one bottom feeder, and one shellfish (shrimp) will be collected if available. A control sample of each species collected will be obtained if available.

(f) The purpose of this sample is to obtain background information. If it is not practical to establish control locations in accordance with the distance and wind direction criteria, other sites that provide valid background data may be substituted.

(g) The “upstream” sample shall be taken at a distance beyond significant influence of the discharge. The “downstream” sample shall be taken in an area beyond but near the mixing zone. “Upstream” samples in an estuary must be taken far enough upstream to be beyond the plant influence. Salt-water shall be sampled only when the receiving water is utilized for recreational activities.

(h) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

(i) Sample site was added to the REMP after LUC in 2022 as a supplemental sampling location.

(j) Sector incorrect in ODCM (NCR# 02467842).

TABLE 2.1-A-2

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM REVISION 40

Table 2.1-A Codes			
A	Annually	SA	Semiannually
C	Control ^(d)	SB	Site Boundary
CM	Community	SDSP	Storm Drain Stabilization Pond
I	Indicator	W	Weekly
M	Monthly	WP	Waypoint
Q	Quarterly		

Site#	Type	Location Description ^(h)	Air Radioiodine & Air Particulate	Surface Water ^(g)	Shoreline Sediment	Fish ^(e)	Broadleaf Vegetation	Ground Water
200	I	0.91 miles WSW - Brunswick Education & Energy Center	W/Q, SB					
201	I	0.61 miles NE – Bio. Lab Road – Projected Maximum Annual Concentration (PMAC)	W/Q, SB					
202	I	0.86 miles S – Substation, Construction Rd.	W/Q, SB					
203	I	1.92 miles SSW - Southport Substation	W/Q, CM					
204	C	22.6 miles N - Sutton Plant ^(f) – (Historical Control)	W/Q					
205	I	0.55 miles SSE - Spoil Pond	W/Q, SB					
206	C	11.3 miles NW – Brunswick County Complex – Control ^{(d)(i)}	W/Q					
207	I	0.65 miles NNE – GWE Compressor Building	W/Q, SB					
400	C	0.75 miles NE - Intake Canal - Control ^{(d)(i)}		M				
401	I	4.82 miles SSW - Discharge Canal at OD Pumps		M				
409	I	Monitoring Well ESS-17A, northeast side of retired SDSP near Intake Canal						Q/SA
410	I	Monitoring Well ESS-17B, northeast side of retired SDSP near Intake Canal						Q/SA
412	I	Monitoring Well, ESS-18B, west side of retired SDSP						Q/SA
420	I	Monitoring Well ESS-22B, south side of retired SDSP						Q/SA
423	I	Monitoring Well ESS-24A, southeast side of retired SDSP adjacent to SDSF near Intake Canal						Q/SA
424	I	Monitoring Well ESS-24B, southeast side of retired SDSP adjacent to SDSF near Intake Canal						Q/SA
494	I	Nancy's Creek Marsh Area – WP-106		M				
495	I	Nancy's Creek – WP-52		M				
496	I	Nancy's Creek – WP-53		M				
497	I	Nancy's Creek – WP-55		M				
498	I	Nancy's Creek – WP-57		M				
499	C	Control Station NE ^{(d)(f)} – WP-61		M				
500	I	4.92 miles SSW – Discharge – Beach near OD Pumps			SA			
501	I	Nancy's Creek, Adjacent to WP-55, Near Retired SDSP			A			
604	I	Nancy's Creek Marsh Area – WP-92		M				
607	I	Nancy's Creek Marsh Area – WP-76		M				
609	I	Nancy's Creek Marsh Area – WP-84		M				
700	I	5.09 miles SSW - Atlantic Ocean ^(e) at Discharge (Free Swimmer)				SA ^{(b)(c)}		
701	I	5.09 miles SSW - Atlantic Ocean ^(e) at Discharge (Bottom Feeders)				SA ^{(b)(c)}		
702	I	5.09 miles SSW - Atlantic Ocean ^(e) at Discharge (Shellfish/Invertebrates)				SA ^{(b)(c)}		

TABLE 2.1-A-2 (Continued)

Site#	Type	Location Description ^(h)	Air Radioiodine & Air Particulate	Surface Water ^(e)	Shoreline Sediment	Fish ^(c)	Broadleaf Vegetation	Ground Water
703	C	WSW - Atlantic Ocean ^{(d)(c)} (Free Swimmer)				SA ^{(b)(c)}		
704	C	WSW - Atlantic Ocean ^{(d)(c)} (Bottom Feeder)				SA ^{(b)(c)}		
705	C	WSW - Atlantic Ocean ^{(d)(c)} (Shellfish/Invertebrates)				SA ^{(b)(c)}		
706	I	Nancy's Creek ^(c) (Free Swimmer)				A ^(b)		
707	I	Nancy's Creek ^(c) (Bottom Feeder)				A ^(b)		
708	I	Nancy's Creek ^(c) (Shellfish/Invertebrates)				A ^(b)		
800	I	0.76 miles NE - Intake Canal					M ^(a) , SB	
801	I	0.71 miles SW - Discharge Canal					M ^(a) , SB	
802	C	10.4 miles - Control - WNW ^(c)					M ^(a)	
803	I	0.48 miles SSE - Spoil Pond					M ^(a) , SB	
804	I	0.67 miles S - Leonard Street plant exit adjacent to RR tracks					M ^(a) , SB	
805	I	NE Sector ⁽ⁱ⁾					M ^(a) , SB	
806	I	1.06 miles ENE - East Intake Canal					M ^(a) , SB	
1020	I	Monitoring Well U1CSTREM-05B, east side of protected area near intake structure						Q/SA

(a) When Available

(b) Edible Portions

(c) When in Season

(d) Control Station - These stations are presumed to be outside the influence of plant effluents.

(e) A sample of one free swimmer, one bottom feeder, and one shellfish (shrimp) will be collected if available. A control sample of each species collected will be obtained if available.

(f) The purpose of this sample is to obtain background information. If it is not practical to establish control locations in accordance with the distance and wind direction criteria, other sites that provide valid background data may be substituted.

(g) The "upstream" sample shall be taken at a distance beyond significant influence of the discharge. The "downstream" sample shall be taken in an area beyond but near the mixing zone. "Upstream" samples in an estuary must be taken far enough upstream to be beyond the plant influence. Salt-water shall be sampled only when the receiving water is utilized for recreational activities.

(h) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

(i) Location was added in 2022 due to Land Use Census re-evaluation but was discontinued in February 2023 and replaced with location 806, prior to ODCM Revision 40 Effective date.

TABLE 2.1-B-1

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES) ^(b)

BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM REVISION 39

Table 2.1-B-1 Codes	
IR	Inner Ring
OR	Outer Ring
C	Control ^(a)
SI	Special Interest
ISFSI	Independent Spent Fuel Storage Installation

Site #	Measure Type	Location ^(c)	Distance (miles)	Sector	Site #	Measure Type	Location ^(c)	Distance (miles)	Sector
1	IR	1.1 miles E	1.1	E	27	OR	5.1 miles NNW	5.1	NNW
2	IR	0.9 miles ESE	0.9	ESE	28	OR	4.2 miles NW	4.2	NW
3	IR	0.9 miles SE	0.9	SE	29	IR	2.6 miles SSW	2.6	SSW
4	IR	1.1 miles SSE	1.1	SSE	30	IR	2.0 miles NE	2.0	NE
5	IR	1.1 miles S	1.1	S	31	IR	2.5 miles ENE	2.5	ENE
6	IR	1.6 miles SSW	1.6	SSW	32	OR	5.8 miles ENE	5.8	ENE
7	IR	1.1 miles SW	1.1	SW	33	OR	4.1 miles E	4.1	E
8	IR	1.2 miles W	1.2	W	34	OR	5.4 miles E	5.4	E
9	IR	1.0 miles WNW	1.0	WNW	35	OR	7.3 miles SSE	7.3	SSE
10	IR	0.8 miles NW	0.8	NW	36	OR	8.9 miles NE	8.9	NE
11	IR	0.9 miles NNW	0.9	NNW	37	OR	5.5 miles NW	5.5	NW
12	IR	1.1 miles N	1.1	N	38	OR	11.0 miles W	11.0	W
13	IR	1.2 miles NNE	1.2	NNE	39	OR	5.3 miles SW	5.3	SW
14	IR	0.5 miles NE	0.5	NE	40	OR	6.9 miles WSW	6.9	WSW
15	IR	0.9 miles ENE	0.9	ENE	75	OR	4.7 miles S	4.7	S
16	IR	1.0 miles WSW	1.0	WSW	76	OR	4.8 miles SSW	4.8	SSW
17	IR	1.4 miles ESE	1.4	ESE	77	OR	5.4 miles S	5.4	S
18	IR	1.7 miles SE	1.7	SE	78	OR	9.9 miles NNE	9.9	NNE
20	IR	2.1 miles S	2.1	S	79	OR	9.5 miles N	9.5	N
21	IR	2.9 miles SSW	2.9	SSW	81	C	9.9 miles WNW	9.9	WNW
22	OR	5.3 miles SW	5.3	SW	82	ISFSI	0.17 miles NNE @ SW corner of ISFSI	0.17	NNE
23	OR	4.6 miles WSW	4.6	WSW	83	ISFSI	0.27 miles NE @ NW corner ISFSI	0.27	NE
24	IR	3.0 miles W	3.0	W	84	ISFSI	0.27 miles NE @ NE corner of ISFSI	0.27	NE
25	OR	8.6 miles WNW	8.6	WNW	85	ISFSI	0.09 miles ENE @ SE corner of ISFSI	0.09	ENE
26	OR	5.9 miles NW	5.9	NW					

(a) Control Station – These stations are presumed to be outside the influence of plant effluents.

(b) One or more instruments such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information with minimal fading.

(c) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.1-B-2

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES) ^(b)

BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM REVISION 40

Table 2.1-B-2 Codes	
IR	Inner Ring
OR	Outer Ring
C	Control ^(a)
SI	Special Interest
ISFSI	Independent Spent Fuel Storage Installation

Site #	Measure Type	Location ^(c)	Distance (miles)	Sector	Site #	Measure Type	Location ^(c)	Distance (miles)	Sector
2	IR	0.88 miles ESE	0.88	ESE	31	IR	2.55 miles ENE	2.55	ENE
3	IR	0.82 miles SE	0.82	SE	32	OR	5.85 miles ENE	5.85	ENE
4	IR	1.01 miles SSE	1.01	SSE	33	IR	4.13 miles E	4.13	E
6	IR	1.45 miles SSW	1.45	SSW	35	OR	7.09 miles SSE	7.09	SSE
7	IR	1.03 miles SW	1.03	SW	36	OR	9.02 miles NE	9.02	NE
8	IR	1.2 miles W	1.2	W	37	OR	5.58 miles NNW	5.58	NNW
9	IR	1.08 miles WNW	1.08	WNW	39	OR	5.2 miles SW	5.2	SW
10	IR	0.95 miles NW	0.95	NW	40	OR	6.81 miles WSW	6.81	WSW
11	IR	1.01 miles NNW	1.01	NNW	75	OR	4.56 miles S	4.56	S
12	IR	1.16 miles N	1.16	N	76	IR	4.7 miles SSW	4.7	SSW
13	IR	1.28 miles NNE	1.28	NNE	77	OR	5.34 miles S	5.34	S
14	IR	0.61 miles NE	0.61	NE	78	OR	10 miles NNE	10	NNE
16	IR	0.99 miles WSW	0.99	WSW	79	OR	9.56 miles N	9.56	N
17	IR	1.41 miles ESE	1.41	ESE	81	C ^(a)	9.98 miles WNW ^(a)	9.98	WNW
18	IR	1.6 miles SE	1.6	SE	82	ISFSI	0.29 miles NNE	0.29	NNE
20	IR	2.01 miles S	2.01	S	83	ISFSI	0.4 miles NE	0.4	NE
21	IR	2.79 miles SSW	2.79	SSW	84	ISFSI	0.39 miles NE	0.39	NE
22	OR	5.18 miles SW	5.18	SW	85	ISFSI	0.21 miles NE	0.21	NE
24	IR	3 miles W	3	W	86	IR	1.07 miles E	1.07	E
25	OR	8.64 miles WNW	8.64	WNW	87	IR	1.02 miles ENE	1.02	ENE
26	OR	5.95 miles NW	5.95	NW	88	OR	5.3 miles WSW	5.3	WSW
27	OR	5.17 miles NNW	5.17	NNW	89	OR	5.06 miles E	5.06	E
28	I	4.31 miles NNW	4.31	NNW	90	OR	5.68 miles W	5.68	W
29	IR	2.5 miles SSW	2.5	SSW	91	IR	0.95 miles S	0.95	S
30	IR	2.06 miles NE	2.06	NE					

(a) Control Station – These stations are presumed to be outside the influence of plant effluents.

(b) One or more instruments such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information with minimal fading.

(c) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.2-A

REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES

Analysis	Water (pCi/liter)	Airborne Particulate and Gases (pCi/m ³)	Fish (pCi/kg, wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg)
H-3	30,000				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	2	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic ^(e)	Tritium	Gross Beta	TLD
Air Radioiodine	Weekly	X			
Air Particulate	Weekly			(c)	
	Quarterly	X			
Direct Radiation (TLD)	Quarterly				X
Surface Water	Monthly Composite (400 & 401) ^{(d)(h)}	X	X		
	Monthly Grab (494 - 499, 604, 607, & 609)	(f)	X		
Ground Water	Quarterly Grab	X	X		
	Semiannual Grab	X			
Shoreline Sediment	Semiannually (500)	X			
	Annually (501) ^(g)	(g)			
Fish and Shellfish/Invertebrates ^(a)	Semiannually (700 – 705) ⁽ⁱ⁾	X			
	Annually (706 – 708)	X			
Broadleaf Vegetation ^(j)	Monthly ^(b)	X			

(a) Edible portions

(b) When available

(c) Airborne particulate samples shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than ten times the yearly mean of control samples, gamma isotopic shall be performed on the individual samples.

(d) Composite samples shall be collected by collecting an aliquot at intervals not exceeding 6 hours.

(e) Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.

(f) The samples are to be analyzed for gamma isotopic analyses. If plant activity is detected from the gamma isotopic analysis, Sr-89, 90 and Fe-55 analysis are to be performed.

(g) If plant activity is detected, Sr-89, 90 and Fe-55 analysis are to be performed and frequency will be increased to Semi-Annual.

(h) A composite sample is one in which the quantity (aliquot) of liquid sampled is proportional to the quantity of flowing liquid and in which the method of sampling employed results in a specimen that is representative of the liquid flow. Composite samples shall be collected with equipment that is capable of collecting an aliquot at time intervals that are short (e.g., once per 6 hours) relative to compositing period (e.g., monthly) in order to assure obtaining a representative sample.

(i) When less than three (3) milking animal locations are available for testing within an 8-km distance, sampling of broadleaf vegetation shall be performed as indicated in [BSEP ODCM] Table 7.3.15-1, 4.c, in lieu of milk sampling.

(j) When in Season.

TABLE 2.2-C

DETECTION CAPABILITIES FOR THE *A PRIORI* LOWER LIMIT OF DETECTION^{(a)(b)(d)}

Analysis	Water (pCi/liter)	Airborne Particulates or Gases (pCi/m ³)	Fish (pCi/kg, wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg, wet)	Sediment (pCi/kg, dry)
Gross Beta	4	0.01				
H-3	3000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15					
I-131	1 ^(c)	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15			15		

(a) This list does not mean that only these nuclides are to be considered. Other peaks that are identifiable, together with these of the above nuclides, shall be analyzed and reported in the AREOR.

(b) The LLD is defined in the BSEP ODCM.

(c) LLD for drinking water samples. If no drinking water pathway exists, a value of 15 pCi/L may be used.

(d) The LLD for each analysis is specified, with the exception of the Nancy's Creek Marsh Area principal gamma isotopic and I-131. The LLD for the Nancy's Creek Marsh Area gamma isotopic is 5×10^{-7} μ Ci/ml for Principal Gamma Emitters and 1×10^{-6} μ Ci/ml for I-131.

3.0 INTERPRETATION OF RESULTS

Review of 2023 REMP analysis results was performed to detect and identify changes in environmental levels as a result of station operation. The radionuclides with ODCM reporting levels that indicate consistent detectable activity have been historically trended from preoperation to present. Summary tables containing 2023 information required by Technical Specification Administrative Control 5.6.2, BSEP ODCM 7.4.1 are located in Appendix B. Brunswick 2023 REMP results are located in Appendix E.

The highest annual mean concentration of applicable ODCM radionuclides from the indicator locations for each media type was used for trending purposes. Trending was performed by comparing annual mean concentrations to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's ODCM reporting level (Table 2.2-A). Evaluation for significant trends was performed for radionuclides that are listed as required in the BSEP ODCM. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Gross beta results were trended for air particulate and tritium in surface water samples.

Review of the 2023 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from BSEP and surrounding areas that were attributable to plant operations. The radiological environmental data for 2023 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to BSEP operations in 2023 were within limits as specified in the BSEP ODCM, thus presenting no significant impact on the environment or public health and safety.

Data presented in Sections 3.1 through 3.8 support the conclusion that there was no significant increase in radioactivity in the environment around Brunswick Steam Electric Plant due to station operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data is shown in Section 3.9.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Air particulate and radioiodine samples at each of eight locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodine was collected in a charcoal cartridge positioned behind the filter in the sample head. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic foot per minute. Filters and cartridges were collected weekly. A separate weekly gamma analysis was performed on each charcoal cartridge. A weekly gross beta analysis was performed on each filter and then the filters, by location, were composited to produce quarterly filter samples for gamma analysis.

In 2023, 416 radioiodine and particulate samples were analyzed, 312 from six indicator locations and 104 from the two control locations. The air samplers operated for a total of 99.84% availability for the 2023 year.

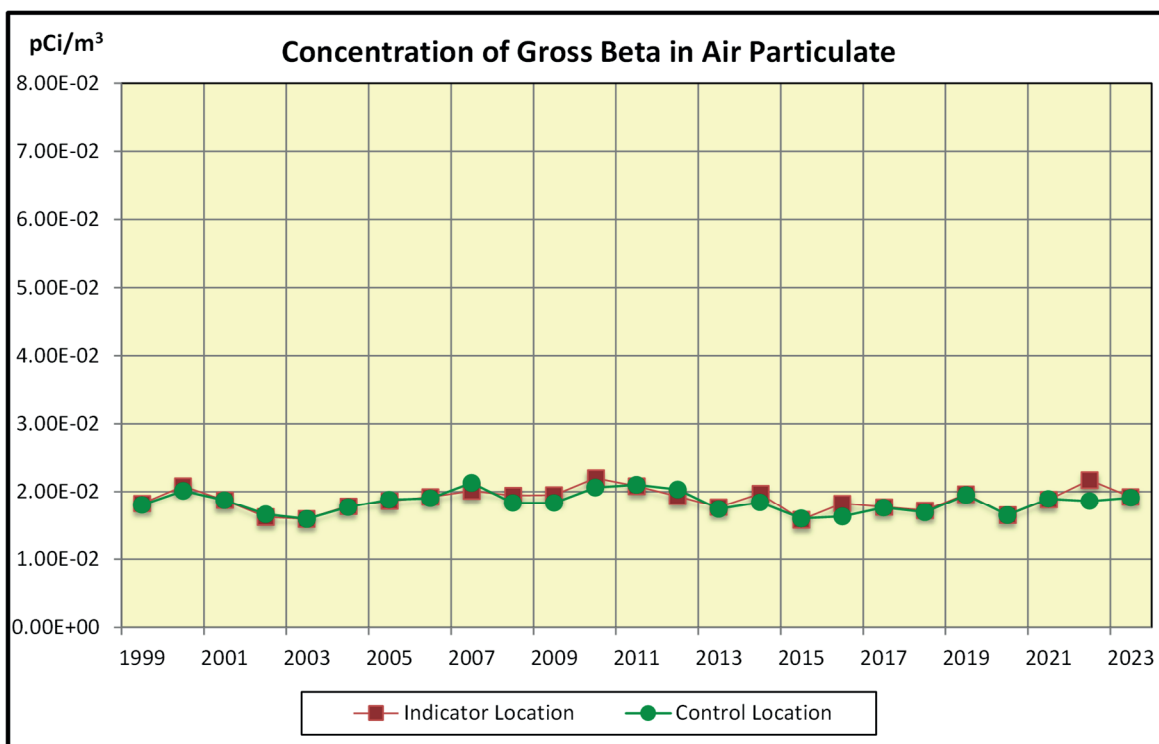
Gross beta analyses indicated $1.92\text{E-}2$ pCi/m³ at the location with the highest annual mean and $1.91\text{E-}2$ pCi/m³ at the two control locations. The preoperational (1973 – 1974) gross beta average concentration was $8.2\text{E-}2$ pCi/m³. No gamma emitting radionuclides attributable to BSEP plant operation were detected in any 2023 radioiodine samples.

Figure 3.1 and Table 3.1-A provide individual sample gross beta results for the highest annual mean indicator location and the control locations concentration since 1999. There is no reporting level for gross beta in air particulate.

Table 3.1-B gives indicator location highest annual means and control means since 1999 for I-131. No I-131 activity due to BSEP operation has been detected in any airborne radioiodine samples since 2006. Since no activity was detected in 2023, no reporting levels were approached.

K-40 and Be-7 observed in air samples are naturally occurring radionuclides.

Figure 3.1



There is no reporting level for gross beta in air particulate.

Table 3.1-A Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1999	1.82E-2	1.80E-2
2000	2.08E-2	2.01E-2
2001	1.87E-2	1.87E-2
2002	1.62E-2	1.66E-2
2003	1.59E-2	1.59E-2
2004	1.78E-2	1.77E-2
2005	1.86E-2	1.88E-2
2006	1.92E-2	1.90E-2
2007	2.01E-2	2.13E-2
2008	1.94E-2	1.83E-2
2009	1.95E-2	1.83E-2
2010	2.20E-2	2.06E-2
2011	2.08E-2	2.10E-2
2012	1.93E-2	2.03E-2
2013	1.77E-2	1.74E-2
2014	1.97E-2	1.84E-2
2015	1.58E-2	1.60E-2
2016	1.82E-2	1.63E-2
2017	1.77E-2	1.76E-2
2018	1.72E-2	1.69E-2
2019	1.96E-2	1.95E-2
2020	1.64E-2	1.65E-2
2021	1.88E-2	1.89E-2
2022	2.17E-2	1.86E-2
2023	1.92E-2	1.91E-2

Table 3.1-B Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0
2006 ⁽¹⁾	5.31E-2	0.00E+0
2007	0.00E+0	0.00E+0
2008	0.00E+0	0.00E+0
2009	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0
2011 ⁽²⁾	1.31E-1	1.00E-1
2012	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0
2014 ⁽³⁾	0.00E+0	0.00E+0
2015	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0
2019	0.00E+0	0.00E+0
2020	0.00E+0	0.00E+0
2021	0.00E+0	0.00E+0
2022	0.00E+0	0.00E+0
2023	0.00E+0	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 2006 concentration affected by plant conditions (NCR # 0211934).

(2) 2011 concentrations affected by Fukushima Dai-ichi (NCR # 0456564).

(3) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.2 SURFACE WATER

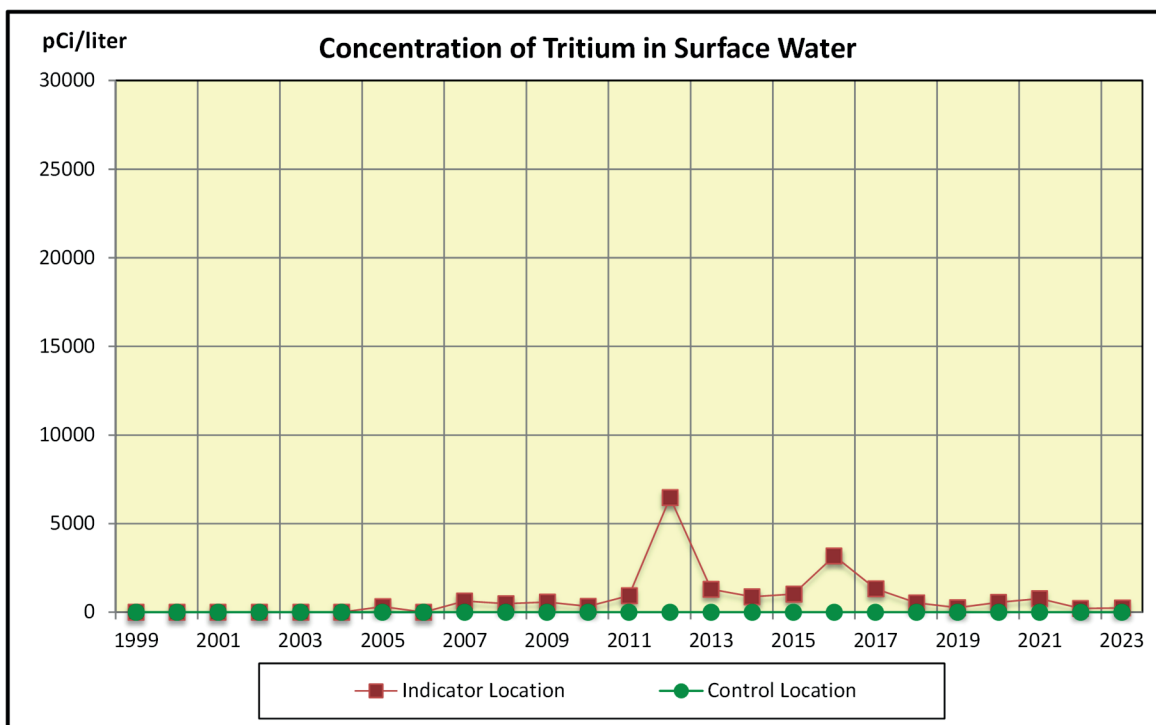
Surface water samples were taken monthly from the intake canal, the discharge canal, five Nancy's Creek surface water locations, and four Nancy's Creek Marsh Area surface water locations. Monthly composite samples were collected from locations 400 and 401 and monthly grab samples were collected from locations 494 – 499, 604, 607, and 609.

In 2023, 132 surface water samples were analyzed for gamma emitting radionuclides and tritium. No detectable gamma activity attributable to BSEP operation was found in surface water samples in 2023. K-40 observed in some surface water samples is a naturally occurring radionuclide. Tritium was detected in 1 of the 132 surface water samples taken in 2023. Tritium was not detected in any of the control location samples in 2023.

The predominate indicator location indicating tritium in 2023 was at location 604, Nancy's Creek Marsh Area (Waypoint-92) with an annual mean concentration of 240 pCi/L as one of the twelve samples from location 604 indicated the presence of tritium. All indicator samples from Nancy's Creek and Nancy's Creek Marsh Area had an average tritium concentration of 240 pCi/L. The reporting limit for tritium in environmental surface water samples is 30,000 pCi/L.

Figure 3.2 displays the tritium results for the highest annual mean indicator and control locations concentrations since 1999. Table 3.2 lists the highest annual mean concentrations for indicator and control locations.

Figure 3.2



There is no reporting level for tritium in surface water; however, if no drinking water pathway exists, a value of 30,000 pCi/l may be used.

Table 3.2 Mean Concentration of Tritium in Surface Water

Year	Indicator Location (pCi/l)	Control Location (pCi/l)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	3.22E+2	0.00E+0
2006	0.00E+0	0.00E+0
2007	6.30E+2	0.00E+0
2008	4.85E+2	0.00E+0
2009	5.75E+2	0.00E+0
2010	3.39E+2	0.00E+0
2011	9.28E+2	0.00E+0
2012	6.47E+3	0.00E+0
2013	1.29E+3	0.00E+0
2014	8.80E+2	0.00E+0
2015	1.02E+3	0.00E+0
2016	3.18E+3	0.00E+0
2017	1.33E+3	0.00E+0
2018	5.36E+2	0.00E+0
2019	2.51E+2	0.00E+0
2020	5.55E+2	0.00E+0
2021	7.63E+2	0.00E+0
2022	2.12E+2	0.00E+0
2023	2.40E+2	0.00E+0

0.00E+0 indicates no detectable measurements

3.3 GROUND WATER

In 2023, there were 34 grab samples collected from thirteen ground water indicator locations and analyzed for gamma emitting radionuclides and/or tritium. The grab samples were collected quarterly for tritium testing and semiannually for gamma spectroscopy testing. There is no ground water control location sampled.

In BSEP ODCM Revision 40 (Effective Date 7/12/2023), Ground Water Locations 404 (Monitoring Well ESS-1B, 0.16 miles SW), 407 (Monitoring Well ESS-13B, 0.06 miles ENE), 418 (Monitoring Well ESS-21B, Near Storm Drain Stabilization Pond), 426 (Monitoring Well ESS-25B, Near Storm Drain Stabilization Pond), 429 (Monitoring Well ESS-27A, Near Storm Drain Stabilization Pond), and 612 (Monitoring Well ESS MWPA-118B, Near Intake Canal and Plant Stack) were removed, and Locations 412 (Monitoring Well, ESS-18B, west side of retired SDSP), 420 (Monitoring Well ESS-22B, south side of retired SDSP), and 1020 (Monitoring Well U1CSTREM-05B, east side of protected area near intake structure) were added (PRR# 02475172).

No detectable gamma activity attributable to BSEP operation was found in ground water samples in 2023. K-40 observed in some ground water samples is a naturally occurring radionuclide. Tritium was detected in six of the 32 indicator ground water samples taken in 2023 with a mean tritium concentration of 2089 pCi/L.

Brunswick county utilizes water from the Cape Fear River, which is processed at the Northwest Water Treatment Plant, and groundwater that is pumped from the Castle Hayne Aquifer, which is processed at the 211 Water Treatment Plant in Southport. The 211 Water Treatment Plant supplies drinking water to Southport, Oak Island, and St. James Plantation. The 211 Water Treatment Plant uses ground water from fourteen wells screened in the Castle Hayne formation approximately 175 feet below the ground's surface and is located approximately 4 miles northwest, up gradient, of the site according to the North Carolina Department of Environmental Quality (NCDEQ) Public Water Supply Section and the Brunswick County Public Utilities Water Distribution Division. The City of Southport has a network of ground water supply wells installed in the Castle Hayne and PeeDee aquifers, within two miles of the BNP Storm Drain Stabilization Pond (SDSP) area; however, these wells are only maintained as emergency or backup supply wells. Between the Ground Water Program at BSEP, the BSEP REMP, the information provided by the Castle Hayne Aquifer/ formation, and Silar Services, Inc.; the drinking water source for the public is sufficiently monitored and a control point for sampling drinking water is not needed.

Table 3.3 lists the tritium results for the highest annual mean concentrations for indicator and control locations (if applicable) since 1999.

Table 3.3 Mean Concentration of Tritium in Ground Water

Year	Indicator Location (pCi/l)	Control Location (pCi/l)
1999	N/A	N/A
2000	N/A	N/A
2001	N/A	N/A
2002	N/A	N/A
2003	N/A	N/A
2004	N/A	N/A
2005	N/A	N/A
2006	N/A	N/A
2007	N/A	N/A
2008	1.50E+6	No Control
2009	6.48E+5	No Control
2010	5.66E+5	No Control
2011	3.10E+2	No Control
2012	4.00E+2	No Control
2013	4.66E+2	No Control
2014	6.54E+2	No Control
2015	4.02E+2	No Control
2016	0.00E+0	No Control
2017	3.76E+2	No Control
2018	3.22E+2	No Control
2019	3.34E+2	No Control
2020	2.24E+2	No Control
2021	2.94E+2	No Control
2022	2.36E+2	No Control
2023	4.22E+3	No Control

0.00E+0 indicates no detectable measurements

N/A indicates that Ground Water samples were not part of the BSEP REMP until 2008.

3.4 MILK

No milk sampling locations are currently identified in BSEP environs, therefore no sampling of this media was available or performed in 2023. No indicator dairies were identified by the 2023 land use census.

3.5 BROADLEAF VEGETATION

In 2023, seventy-two broadleaf vegetation samples were collected monthly (as available) and analyzed by gamma spectroscopy, 60 at the six indicator locations and twelve at the control location. Sample location 805 (0.8 miles ENE – East Intake Canal) was removed as a supplemental indicator location and sample location 806 (1.06 miles ENE – East Intake Canal) was added as an indicator location as a result of the reevaluation of the 2022 Land Use Census.

No gamma activity was detected in any of the 60 indicator location samples. Cesium-137 was detected in one control sample with an activity of 23.1 pCi/Kg-Wet, however it is not unusual for Cs-137 to be present in broadleaf vegetation. The Cs-137 activity was 1.16% of the reporting level. Cs-137 is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Figure 3.5 displays the highest annual mean indicator and control location concentrations for Cs-137 in broadleaf vegetation since 1999. Table 3.5 lists the highest indicator location annual mean and control location annual means for Cs-134, Cs-137, Co-60, and I-131 since 1999. Visual inspection of the tabular data did see a decrease in Cs-137 activity in the control location, but since this is a constituent of nuclear weapons test fallout and nuclear plant accidents and the activity was well below the reporting levels, it is not considered to be significant.

K-40 and Be-7 observed in broadleaf vegetation samples are naturally occurring radionuclides.

Figure 3.5

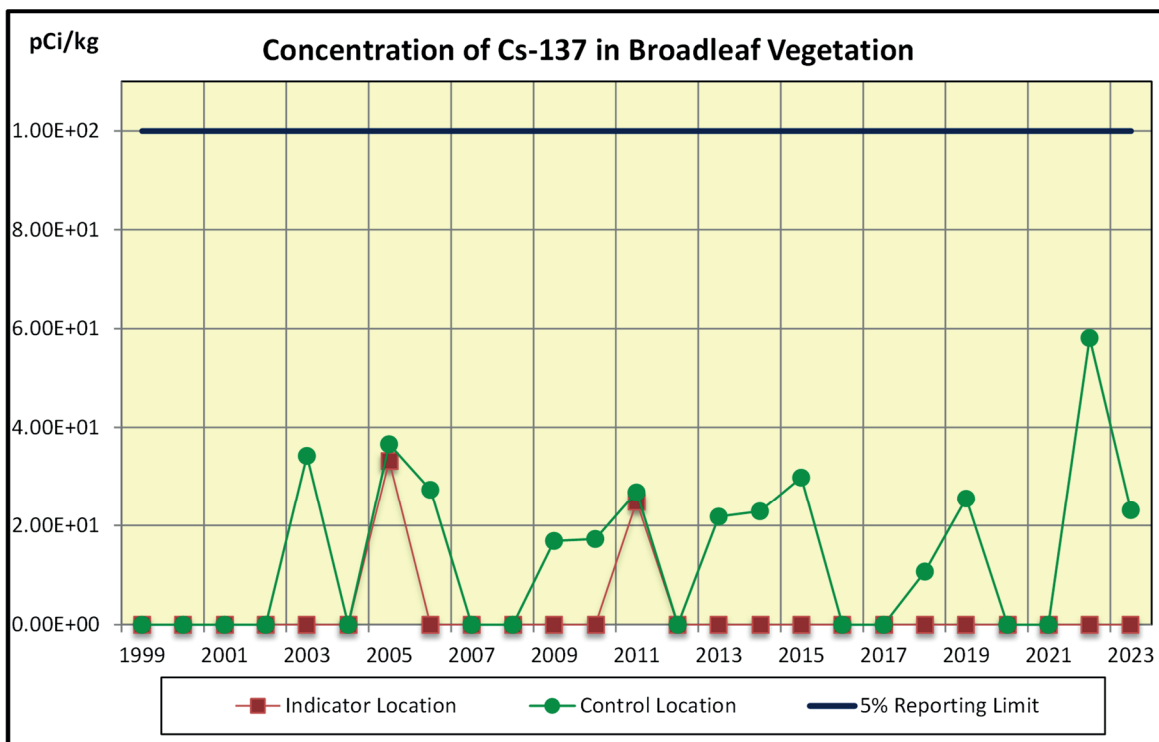


Table 3.5 Mean Concentrations of Radionuclides in Broadleaf Vegetation (pCi/kg)

Year	Cs-134 Indicator	Cs-134 Control	Cs-137 Indicator	Cs-137 Control	Co-60 Indicator	Co-60 Control	I-131 Indicator	I-131 Control
1999	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0	0.00E+0	3.42E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0	3.32E+1	3.66E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2006	0.00E+0	0.00E+0	0.00E+0	2.73E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2007	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2008	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2009	0.00E+0	0.00E+0	0.00E+0	1.69E+1	4.94E+1	0.00E+0	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0	0.00E+0	1.73E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2011 ⁽¹⁾	2.60E+1	1.64E+1	2.48E+1	2.68E+1	0.00E+0	0.00E+0	2.20E+2	1.48E+2
2012	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0	0.00E+0	2.18E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2014 ⁽²⁾	0.00E+0	0.00E+0	0.00E+0	2.29E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2015	0.00E+0	0.00E+0	0.00E+0	2.98E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0	0.00E+0	1.07E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2019	0.00E+0	0.00E+0	0.00E+0	2.55E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2020	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2021	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
2022 ⁽³⁾	0.00E+0	0.00E+0	0.00E+0	5.81E+1	8.57E+0	0.00E+0	1.30E+1	0.00E+0
2023	0.00E+0	0.00E+0	0.00E+0	2.31E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 2011 concentration affected by Fukushima Dai-ichi

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

(3) NCR# 02428616

3.6 FISH and INVERTEBRATES

In 2023, fifteen fish samples were collected and analyzed for gamma emitting radionuclides, nine at the indicator locations and six at the control locations. Fish (free swimmers and bottom feeders), invertebrate (SH), and benthic organism (BO) samples were collected semiannually. Gamma spectroscopy analysis on the edible portions of each sample indicated no gamma emitting radionuclides attributable to BSEP plant operations in any indicator or control location 2023 fish samples.

K-40 is a naturally occurring radionuclide observed in fish samples.

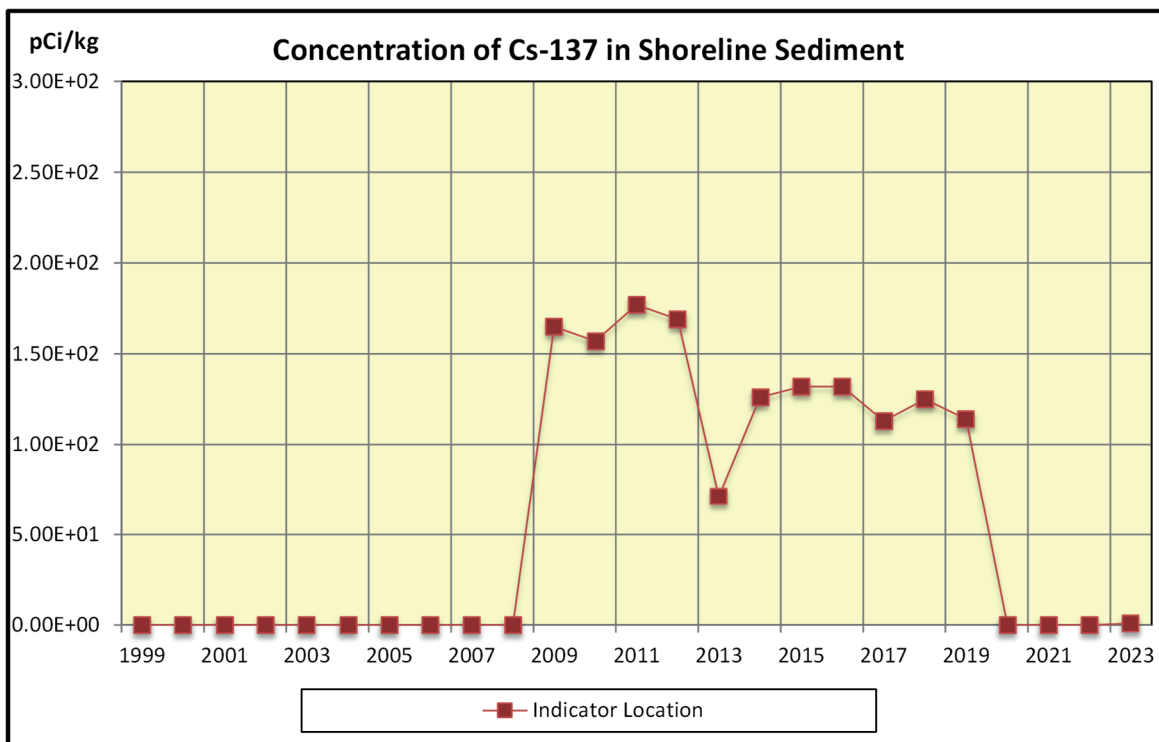
3.7 SHORELINE SEDIMENT

In 2023, four shoreline sediment samples were analyzed from two indicator locations. A gamma analysis was performed on each sample following the drying and removal of rocks and clams. There is no control shoreline sediment location. No detectable gamma activity attributable to BSEP operation was found in shoreline sediment samples in 2023.

Figure 3.7 shows Cs-137 highest annual mean indicator concentrations since 1999. Table 3.7 shows indicator location highest annual means since 1999. There is no reporting level for shoreline sediment.

K-40 observed in shoreline samples is a naturally occurring radionuclide.

Figure 3.7



There is no reporting level for Cs-137 in shoreline sediment

Table 3.7 Mean Concentration of Radionuclides in Shoreline Sediment

YEAR	Cs-137 Indicator (pCi/kg)
1999	0.00E+0
2000	0.00E+0
2001	0.00E+0
2002	0.00E+0
2003	0.00E+0
2004	0.00E+0
2005	0.00E+0
2006	0.00E+0
2007	0.00E+0
2008	0.00E+0
2009	1.65E+2
2010	1.57E+2
2011	1.77E+2
2012	1.69E+2
2013	7.13E+1
2014 ⁽¹⁾	1.26E+2
2015	1.32E+2
2016	1.32E+2
2017	1.13E+2
2018	1.25E+2
2019	1.14E+2
2020	0.00E+0
2021	0.00E+0
2022	0.00E+0
2023	0.00E+0

0.00E+0 indicates no detectable measurements

There is no control location for Shoreline Sediment.

- (1) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.8 DIRECT GAMMA RADIATION

3.8.1 ENVIRONMENTAL TLD

The BSEP site is located on land owned entirely by Duke Energy Progress, Inc. BSEP is licensed with an exclusion area boundary defined by UFSAR Section 2.1.2. No permanent public access is permitted within the exclusion area. For the purpose of effluent release calculations, the boundary for atmospheric releases is the site boundary and the boundary for liquid releases is the site boundary or prior to dilution by a natural body of water, whichever occurs first.

In 2023, there were 178 TLDs analyzed, 174 at indicator locations and 4 at the control location. TLDs were collected and analyzed quarterly. Transit TLDs and laboratory background TLDs were used for determining transit and laboratory background dose and were subtracted from gross field readings as required by ANSI N545-1975.

TLD locations designated as "inner ring" are placed in each meteorological sector in the general area of the site boundary as is reasonably accessible and practical and all are used as indicators. Due to close proximity with Brunswick, and most being within the exclusion area boundary, inner ring TLD locations are not good indicators of radiation exposure to a member of the public, but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. TLD locations designated as "outer ring" are placed in each meteorological sector at distances of 8 kilometers or greater from the site as is reasonably accessible and practical. All outer ring TLD locations are used as indicators. The one "control" location is 9.98 miles WNW from station center. This location was chosen to reduce the probability of influence from Brunswick operation on data. The control location is not used as background subtraction in the TLD analysis. Its purpose is to provide a comparison to indicator locations.

The environmental data on external radiation exposure for 2023 was essentially unchanged from 1989-2023, with an average exposure for all of 2023 indicator locations of 9.91 mR per std. quarter. The TLD location with the highest annual mean of 15.6 mR per std. quarter was location 17, located 1.41 miles ESE of the plant. Control TLD location 81 had an annual mean of 10.2 mR per std. quarter.

In BSEP ODCM Revision 40 (Effective Date 7/12/2023), Direct Radiation (TLD) Locations 1 (1.1 miles E), 5 (1.1 miles S), 15 (0.9 miles ENE), 23 (4.6 miles WSW), 34 (5.4 miles E), and 38 (11.0 miles W) were removed, and Locations 86 (1.07 miles E), 87 (1.02 miles ENE), 88 (5.30 miles WSW), 89 (5.06 miles E), 90 (5.68 miles W), and 91 (0.95 miles S) were added as a result of the 2022 Land Use Census reevaluation.

Figure 3.8 and Table 3.8-A show TLD inner ring, outer ring, and control location annual averages in mR per std. qtr. since 1999. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations. Table 3.8-B shows average TLD results (All Locations) from 1972 to 1994 in mR per week. Table 3.8-C shows TLD results (All Indicator Locations) from 1995 to 2023 in mR per std. quarter.

Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within expected low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The low and high ranges are determined by the historical average $\pm$ two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)". The CSD-RP-ALL-0030 – Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for the fleet TLD programs. TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. TLD results are found in Appendix E.

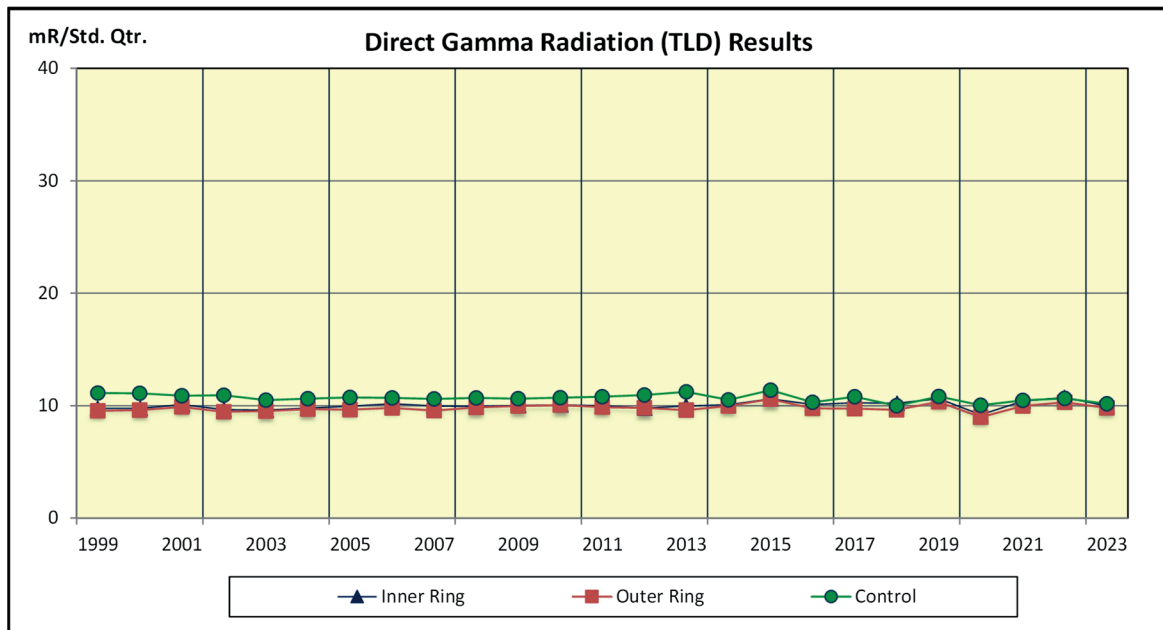
TLD Locations 86 (1.07 miles E), 87 (1.02 miles ENE), 88 (5.3 miles WSW), 89 (5.06 miles E), 90 (5.68 miles W), and 91 (0.95 miles S) exceeded the high range values in the first quarter of 2023 due to the locations being new and there not being enough historical data from these locations. TLD Locations 86, 87, and 88 exceeded the high range values and locations 89 and 91 exceeding the low range values in the second quarter of 2023 due to the locations being new and there not being enough historical data from these locations. TLD Locations 87, 88, and 89 exceeded the low range values in the third quarter of 2023 due to the locations being new and there not being enough historical data from these locations. In the fourth quarter of 2023, Location 8B was found to have a bad glow curve and its dose was not included in the result for this location.

A TLD Intercomparison Program is conducted as part of the quality assurance program. Results of this program are included in Section 4.7.

3.8.2 ISFSI

BSEP ISFSI TLDs were added to the program in the 3rd quarter of 2010. The ISFSI TLDs are not part of the plant's environmental TLD monitoring program. Comparison of the 2023 ISFSI TLD data after loaded fuel with preoperational data (2008 – 3rd Quarter 2010) indicates that the average pre-op TLD dose levels were about the same as the average after fuel was loaded (Table 3.8-D). Dry fuel storage radiation measurements have been monitored since 2008 and additional information can be found in the BSEP 2023 Annual Radioactive Effluent Release Report (ARERR).

Figure 3.8



There is no reporting level for Direct Radiation (TLD)

Table 3.8-A Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/Std. Qtr.)	Outer Ring Average (mR/Std. Qtr.)	Control Average (mR/Std. Qtr.)
1999	9.76E+0	9.53E+0	1.11E+1
2000	9.75E+0	9.61E+0	1.11E+1
2001	1.01E+1	9.88E+0	1.09E+1
2002	9.65E+0	9.45E+0	1.09E+1
2003	9.60E+0	9.51E+0	1.05E+1
2004	9.78E+0	9.68E+0	1.06E+1
2005	9.94E+0	9.64E+0	1.07E+1
2006	1.02E+1	9.80E+0	1.07E+1
2007	9.96E+0	9.55E+0	1.06E+1
2008	9.93E+0	9.83E+0	1.07E+1
2009	1.00E+1	9.98E+0	1.06E+1
2010	1.01E+1	1.01E+1	1.07E+1
2011	1.00E+1	9.86E+0	1.08E+1
2012	9.78E+0	9.79E+0	1.10E+1
2013	9.98E+0	9.61E+0	1.12E+1
2014 ⁽¹⁾	1.01E+1	9.98E+0	1.05E+1
2015	1.06E+1	1.06E+1	1.14E+1
2016	1.01E+1	9.76E+0	1.03E+1
2017	1.03E+1	9.73E+0	1.08E+1
2018	1.02E+1	9.62E+0	1.00E+1
2019	1.06E+1	1.03E+1	1.08E+1
2020 ⁽²⁾	9.18E+0	8.98E+0	1.00E+1
2021	1.04E+1	9.96E+0	1.05E+1
2022	1.07E+1	1.03E+1	1.07E+1
2023	9.96E+0	9.79E+1	1.02E+1

(1) In 1Q2014 Panasonic TLDs were replaced with Harshaw TLDs causing a step change in activity (NCR # 01982479)

(2) Environmental TLD dual placement (Alpha & Bravo) implemented first quarter 2020.

Table 3.8-B
BSEP TLD RESULTS (1972-1994)

Year	Average TLD Exposure All Monitoring Locations (mR per week)*
1972 (4th Qtr.)	8.00E-1
1973	1.25E+0
1974	9.70E-1
1975 (1st, 2nd Qtr)	8.00E-1
1976	9.80E-1
1977	1.32E+0
1978	1.24E+0
1979	9.30E-1
1980	9.00E-1
1981	9.60E-1
1982	1.18E+0
1983	1.21E+0
1984	9.80E-1
1985	1.03E+0
1986	8.90E-1
1987	9.20E-1
1988	8.60E-1
1989	7.50E-1
1990	7.60E-1
1991	7.60E-1
1992	7.50E-1
1993	7.80E-1
1994	7.70E-1

*TLD exposure in mR per quarter beginning in 1995, reference Table 3.8-C.

Table 3.8-C
BSEP TLD RESULTS (1995-2023)

Year	Average TLD Exposure All Indicator Locations mR per standard quarter *
1995	1.01E+1
1996	1.01E+1
1997	1.01E+1
1998	9.70E+0
1999	9.70E+0
2000	9.70E+0
2001	1.00E+1
2002	9.60E+0
2003	9.60E+0
2004	9.70E+0
2005	9.80E+0
2006	1.00E+1
2007	9.80E+0
2008	9.90E+0
2009	1.00E+1
2010	1.01E+1
2011	9.90E+0
2012	9.80E+0
2013	9.80E+0
2014	1.00E+1
2015	1.07E+1
2016	1.00E+1
2017	1.01E+1
2018	1.00E+1
2019	1.05E+1
2020	9.09E+0
2021	1.02E+1
2022	1.05E+1
2023	9.91E+0**

* TLD exposure reported in milliroentgen (mR) per standard quarter (91 days), beginning 1995.

** The equivalent 2023 weekly exposure is 7.6E-1 mR.

Table 3.8-D
ISFSI TLD Dose (mR/Std. Qtr.)

Year	TLD # 82	TLD # 83	TLD # 84	TLD # 85
Average Pre-Op (1Q2008 to 3Q2010)	3.01E+1	2.24E+1	1.67E+1	5.32E+1
Average after Fuel Loaded (4Q2010 to 4Q2023)	3.08E+1	2.38E+1	2.02E+1	3.29E+1

3.9 LAND USE CENSUS

The 2023 BSEP Land Use Census (LUC) was conducted on 7/10 – 7/11/2023 during the growing season as required by the BSEP ODCM to identify within 8 kilometers (5.0 miles) from the plant the nearest location from the site boundary in each of the sixteen meteorological sectors, the following: nearest residence, nearest garden greater than 50 square meters or 500 square feet, and the nearest milk-giving animal (cow, goat, etc.).

Additionally, the LUC must also identify (for elevated releases) within the three-mile (4.8 kilometer) radius of the plant (garden census) for each of the 16 meteorological sectors the following: all milk animals and all gardens greater in size than 500 square feet (50 square meters).

The primary method of performing the land use census is visual inspection from the roadside within the five (5) mile radius, with the exception of the Sunny Point Military Ocean terminal. This information may be supplemented with data from aerial photographs and a Global Positioning System (GPS) to determine distance and direction from the plant. Distances from the plant are accurate to within one tenth of a mile.

Table 3.9-A summarizes the land use census results that was conducted within five miles of BSEP. Table 3.9-B summarizes the results of the garden census that was conducted within three miles of BSEP. A map indicating identified locations is shown in Figure 3.9.

During the 2023 census, no milk locations were identified. The nearest residence is located in the West sector at 0.84 miles. Based upon the 2022 LUC reevaluation, sample location 805 (0.8 miles ENE – East Intake Canal) was removed as a supplemental indicator location and sample location 806 (1.06 miles ENE – East Intake Canal) was added as a indicator location. No changes were required to the BSEP REMP as a result of the 2023 Land Use Census.

Table 3.9-A
Brunswick Steam Electric Plant
Land Use Census Comparison (2022 – 2023)
Performed – July 10-11, 2023
Nearest Pathway (Miles)

SECTOR	RESIDENT		GARDEN		MILK ANIMALS	
	2022	2023	2022	2023	2022	2023
N	0.87	0.87	1.11	1.10*	---	---
NNE	0.91	0.91	0.99	0.99	---	---
NE	---	---	---	---	---	---
ENE	---	---	---	---	---	---
E	---	---	---	---	---	---
ESE	1.37	1.37	1.48	1.48	---	---
SE	---	---	---	---	---	---
SSE	1.22	1.22	---	---	---	---
S	1.02	1.02	1.50	1.56*	---	---
SSW	1.25	1.25	1.48	1.59*	---	---
SW	0.97	0.97	0.97	0.97	---	---
WSW	1.27	1.27	1.27	1.27	---	---
W	0.84	0.84	0.85	1.28*	---	---
WNW	0.90	0.90	---	---	---	---
NW	0.95	0.95	0.98	0.95*	---	---
NNW	0.86	0.86	1.02	0.96*	---	---

NOTE: Sector and distance determined by Global Positioning System.

* Represents a change from previous year.

--- Indicates no occurrence within 3 or 5 mile radius.

Table 3.9-B
Brunswick Steam Electric Plant
Garden Census – 2023
Performed - July 10-11, 2023

SECTOR	Bearing (degrees)	DISTANCE (miles)		SECTOR	Bearing (degrees)	DISTANCE (miles)
N	174	1.10*		SSW	029	1.72
NNE	199	0.99*		SSW	029	2.04
NNE	205	1.24		SSW	023	2.22
NE	---	---		SSW	021	2.30
ENE	---	---		SSW	025	2.45
E	---	---		SSW	014	2.53
ESE	299	1.48*		SSW	016	2.57
SE	---	---		SSW	019	2.72
SSE	---	---		SW	055	0.97*
S	007	1.56*		SW	052	2.24
S	009	1.57		SW	053	2.63
S	007	1.60		SW	037	2.88
S	011	1.95		WSW	078	1.27*
S	004	2.17		WSW	078	2.63
S	003	2.21		W	094	1.28*
S	354	2.26		WNW	---	---
S	359	2.28		NW	130	0.95*
S	004	2.33		NW	127	0.98
S	005	2.48		NNW	153	0.96*
SSW	025	1.59*		NNW	168	1.02

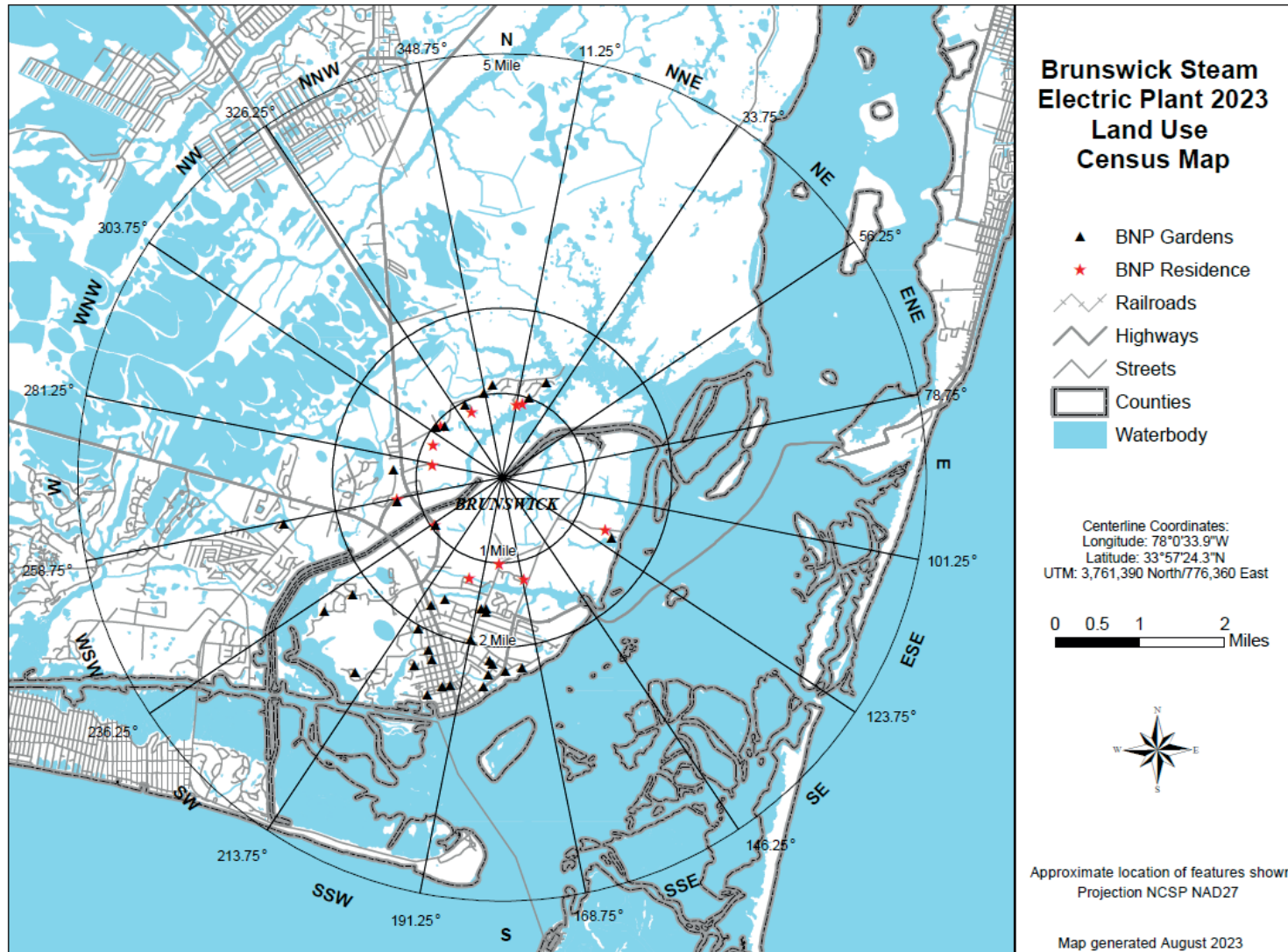
Note: Two geographical descriptors (bearing and mileage) are provided due to multiple gardens occurring in one sector . Sector and distance

Determined by Global Positioning System

--- Indicates no occurrence within 3 or 5 mile radius.

* Indicates nearest garden in sector.

Figure 3.9



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

Environmental sample collection at BSEP was performed by BSEP Station Sciences in 2023 as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include tritium analyses in surface water and ground water samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM

EnRad Laboratories routinely participates with the North Carolina Department of Health and Human Services in an intercomparison program. EnRad Laboratories sends McGuire Nuclear Plant Radiological Environmental Monitoring Program air, drinking water, surface water, milk, fish, food products, and shoreline sediment samples to the North Carolina Department of Health and Human Services, Division of Public Health for intercomparison analysis.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at the Brunswick Steam Electric Plant (BSEP) was required to ensure compliance with the BSEP Offsite Dose Calculation Manual (ODCM). Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved.

Environmental sampling was performed by BSEP Nuclear Station Sciences. Analyses were performed by EnRad Laboratories and Dosimetry and Records.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section.

I. CHANGE OF SAMPLING PROCEDURES

Procedure 0E&RC-3101, Radiological Environmental Monitoring Program was updated to coincide with BSEP ODCM Revision 40 (Effective Date 7/12/2023) due to the 2022 Land Use Census reevaluation (NCR# 02441863).

Direct Radiation (TLD) Locations 1 (1.1 miles E), 5 (1.1 miles S), 15 (0.9 miles ENE), 23 (4.6 miles WSW), 34 (5.4 miles E), and 38 (11.0 miles W) were removed, and Locations 86 (1.07 miles E), 87 (1.02 miles ENE), 88 (5.30 miles WSW), 89 (5.06 miles E), 90 (5.68 miles W), and 91 (0.95 miles S) were added (PRR# 02318434).

Broadleaf Vegetation Location 805 (0.8 miles ENE – East Intake Canal) was replaced with Location 806 (1.06 miles ENE – East Intake Canal) (PRR# 02318434).

Ground Water Locations 404 (Monitoring Well ESS-1B, 0.16 miles SW), 407 (Monitoring Well ESS-13B, 0.06 miles ENE), 418 (Monitoring Well ESS-21B, Near Storm Drain Stabilization Pond), 426 (Monitoring Well ESS-25B, Near Storm Drain Stabilization Pond), 429 (Monitoring Well ESS-27A, Near Storm Drain Stabilization Pond), and 612 (Monitoring Well ESS MWPA-118B, Near Intake Canal and Plant Stack) were removed, and Locations 412 (Monitoring Well, ESS-18B, west side of retired SDSP), 420 (Monitoring Well ESS-22B, south side of retired SDSP), and 1020 (Monitoring Well U1CSTREM-05B, east side of protected area near intake structure) were added (PRR# 02475172).

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or Perkin-Elmer 3100TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a blank to ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

No changes in analysis procedures were implemented during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
Brunswick County, North Carolina

Docket Numbers 50-324, 325
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 416 ⁽⁴⁾	See Table 2.2-C	1.89E-2 (312/312) 4.02E-3 – 4.02E-2	205 (0.55 mi SSE)	1.92E-2 (52/52) 6.87E-3 – 4.02E-2	204 (22.4 mi NNE) 206 (11.3 mi NW) 1.91E-2 (104/104) 7.89E-3 – 3.65E-2	0
	Gamma 32 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 416 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma 72	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Cs-137	See Table 2.2-C	-----	-----	-----	802 (10.4 mi WNW) 2.31E+01 (1/12) 2.31E+01 – 2.31E+01	
Fish and Invertebrates (pCi/l)	Gamma 15	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Sediment - Shoreline (pCi/kg, dry)	Gamma 4	See Table 2.2-C	All less than LLD	-----	-----	No Control	0

BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
Brunswick County, North Carolina

Docket Numbers 50-324, 325
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Surface Water (pCi/l)	Gamma 132	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 132	See Table 2.2-C	2.40E+02 (1/108) 2.40E+02 – 2.40E+02	604 Nancy's Creek Marsh Area Waypoint-92	2.40E+02 (1/12) 2.40E+02 – 2.40E+02	All less than LLD	0
Ground Water (pCi/l)	Gamma 17	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
	Tritium 34	See Table 2.2-C	2.09E+03 (6/32) 2.71E+02 – 4.40E+03	420 Monitoring Well ESS-22B	4.22E+03 (2/2) 4.03E+03 – 4.40E+03	No Control	0
Direct Gamma Radiation (TLD) (mR per Std quarter) ⁽⁵⁾	TLD Readout 178 ⁽⁴⁾	-----	9.91E+00 (174/174) 4.95E+00 – 1.71E+01	17 (1.41 mi ESE)	1.56E+01 (4/4) 1.29E+01 – 1.71E+01	81 (9.9 mi WNW) 1.02E+01 (4/4) 7.36E+00 – 1.20E+01	0
Direct Gamma Radiation (TLD) ISFSI (mR per Std quarter) ⁽⁵⁾	TLD Readout 16	-----	2.72E+01 (16/16) 1.79E+01 – 3.89E+01	82 SW corner of ISFSI (0.17 mi NNE)	3.60E+01 (4/4) 3.13E+01 – 3.89E+01	No Control	

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Analytical Procedures Section/Gamma Spectrometry for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

BRUNSWICK NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Brunswick REMP air samplers operated for a total of 99.84% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
207	1/17 – 1/24/2023	PI	45.83 hours downtime due to power interrupt from a transformer being replaced.	NCR # 02457103
207	1/31 – 2/7/2023	PI	1.67 hours downtime due pole switch.	NCR # 02458960
201	3/7 – 3/14/2023	OT	Air sampler flow rate low due to sampler malfunction. Air sampler was replaced.	NCR # 02465023
204	3/14 – 3/21/2023	PI	0.24 hours due to electrical maintenance.	NCR # 02465755
204	3/21 – 3/28/2023	PI	1.75 hours due to electrical maintenance.	NCR # 02466695
201	6/13 – 6/20/2023	PI	0.55 hours downtime due to unknown power interrupt.	NCR # 02476346
201	6/20 – 6/27/2023	PI	0.59 hours downtime due to a faulty transfer switch. The switch was scheduled for repair.	NCR # 02477043
203	10/24 – 10/31/2023	OT	Air sampler flow rate low due to a kinked inlet hose. The hose was rerouted and the flow normal. No downtime. Sample was analyzed.	NCR # 02492638
206	11/14 – 11/21/2023	OT	0.37 hours downtime due to unknown power interrupt.	NCR # 02494840
207	12/5 – 12/12/2023	PI	2.67 hours downtime due to lightning strike.	NCR # 02497418
205	12/5 – 12/12/2023	PI	14.11 hours downtime due to lightning strike.	NCR # 02497421
201	12/26 – 1/2/2024	PI	11.02 hours downtime due electrical problem. Receptacle was replaced.	NCR # 02499160
205	12/16/2023 – 1/2/2024	PI	32.84 hours downtime due electrical problem. Receptacle was replaced.	NCR # 02499160

Surface Water

REMP monthly surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The surface water samplers operated for a total of 100% availability in 2023.

There were no surface water sampling deviations or unavailable surface water samples during 2023.

C.2 UNAVAILABLE ANALYSES

Direct Gamma Radiation (TLD)

Scheduled Collection			Description &	Corrective
Location	Dates	Code	Action to Prevent Recurrence	Action
5	10/3 – 1/4/2023	CN	Both Alpha and Bravo TLDs for location 5 were unavailable due to construction in the area. Location 5 retired and replaced with Location 91 in first quarter 2023. (PRR# 02318434)	NCR # 02456017
22	7/12 – 10/2/2023	OT	Both Alpha and Bravo TLDs for location 22 were found on the ground. Since they were not in their designated location at the time of collection, they are considered unavailable. The 4 th quarter TLDs were attached securely.	NCR # 02490311
89	10/2/2023 – 1/4/2024	OT	Both Alpha and Bravo TLDs for location 89 were missing at time of collection. Since they were not in their designated location at the time of collection, they are considered unavailable. The 4 th quarter TLDs were attached securely.	NCR # 02499963

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

BRUNSWICK NUCLEAR PLANT ANALYTICAL DEVIATIONS

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

D.1 ANALYTICAL DEVIATIONS

Brunswick Steam Electric Plant environmental Alpha (A) and Bravo (B) TLDs are co-located TLDs placed next to each other to comply with ANSI/HPS N13.37-2014 Section 7.1 Paragraph 7. The TLD collection indicated incurred tampering/vandalism with one of the two co-located TLDs. One TLD for each collection was available and did not appear to have experienced any tampering/vandalism during the quarter. The remaining Bravo (B) TLD was collected and analyzed, but did not get averaged with the unusable Alpha (A) TLD which is normally included in the established process for the Brunswick Steam Electric Plant.

Direct Gamma Radiation (TLD)

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
27	7/10 – 10/3/2023	OT	Alpha TLD was missing and Bravo TLD was successfully collected.	NCR # 02490307
8	10/4/2023 – 1/2/2024	OT	Both the Alpha and Bravo TLDs for location 8 were successfully collected. However, upon analysis and abnormal glow curve was noted for the Bravo TLD, thus the result for the Bravo TLD was not included in the reported result.	NCR # 02503169

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2023.

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID:	582635	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.78E-03	2.70E-03
Sample ID:	582944	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.06E-03	3.12E-03
Sample ID:	583135	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.32E-03	2.69E-03
Sample ID:	583487	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.95E-03	3.32E-03
Sample ID:	584216	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.52E-03	2.84E-03
Sample ID:	584912	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.73E-03	3.23E-03
Sample ID:	585347	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.69E-03	3.20E-03
Sample ID:	585554	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.20E-02	2.63E-03	3.28E-03
Sample ID:	585808	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	2.50E-03	2.88E-03
Sample ID:	586059	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.68E-03	3.35E-03
Sample ID:	586658	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.72E-03	3.08E-03
Sample ID:	586926	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.38E-03	2.87E-03
Sample ID:	587186	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.59E-03	2.72E-03
Sample ID:	587416	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.11E-03	0.00E+00	2.11E-03
				Cs-137	<1.18E-03	0.00E+00	1.18E-03
				Be-7	1.15E-01	3.14E-02	2.92E-02
				K-40	<2.75E-02	0.00E+00	2.75E-02
Sample ID:	587408	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.96E-03	3.35E-03
Sample ID:	587763	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.54E-03	2.80E-03
Sample ID:	588297	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.21E-03	3.17E-03
Sample ID:	588584	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.89E-03	3.50E-03
Sample ID:	589530	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.45E-03	2.98E-03
Sample ID:	589782	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	3.23E-03	4.00E-03
Sample ID:	590010	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.34E-03	2.87E-03
Sample ID:	590345	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	5.09E-03	2.05E-03	3.05E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID:	590472	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.22E-03	2.73E-03
Sample ID:	590635	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.85E-03	2.81E-03
Sample ID:	591193	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.93E-03	3.47E-03
Sample ID:	591429	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	3.03E-03	3.91E-03
Sample ID:	591607	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.19E-03	3.22E-03
Sample ID:	591807	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.74E-03	0.00E+00	1.74E-03
				Cs-137	<1.02E-03	0.00E+00	1.02E-03
				Be-7	1.44E-01	3.58E-02	3.28E-02
				K-40	<2.62E-02	0.00E+00	2.62E-02
Sample ID:	591799	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.99E-03	3.52E-03
Sample ID:	592180	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.26E-03	3.32E-03
Sample ID:	592399	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.20E-03	3.58E-03
Sample ID:	592988	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.77E-03	3.37E-03
Sample ID:	593166	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.03E-03	3.29E-03
Sample ID:	593548	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.71E-03	3.09E-03
Sample ID:	593800	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.12E-03	3.46E-03
Sample ID:	594266	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	2.77E-03	2.73E-03
Sample ID:	594787	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.64E-03	2.87E-03
Sample ID:	594981	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.17E-03	3.22E-03
Sample ID:	595625	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.83E-03	3.18E-03
Sample ID:	596377	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.12E-02	3.60E-03	3.42E-03
Sample ID:	596776	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.74E-03	3.50E-03
Sample ID:	597264	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.61E-03	0.00E+00	1.61E-03
				Cs-137	<1.18E-03	0.00E+00	1.18E-03
				Be-7	1.20E-01	3.38E-02	3.30E-02
				K-40	<3.62E-02	0.00E+00	3.62E-02
Sample ID:	597256	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.96E-03	3.42E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID:	597860	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.04E-03	3.18E-03
Sample ID:	598195	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.40E-03	2.76E-03
Sample ID:	598857	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.87E-03	2.87E-03
Sample ID:	599055	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.04E-03	2.85E-03
Sample ID:	599451	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.23E-03	3.21E-03
Sample ID:	600290	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.94E-03	3.13E-03
Sample ID:	601114	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.10E-03	3.20E-03
Sample ID:	601275	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.10E-03	3.18E-03
Sample ID:	601770	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.26E-03	3.41E-03
Sample ID:	602243	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.79E-03	2.95E-03
Sample ID:	602498	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.71E-03	3.12E-03
Sample ID:	602704	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.80E-03	3.04E-03
Sample ID:	602917	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.66E-03	0.00E+00	1.66E-03
				Cs-137	<1.48E-03	0.00E+00	1.48E-03
				Be-7	8.43E-02	3.18E-02	3.87E-02
				K-40	<3.23E-02	0.00E+00	3.23E-02

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	582636	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.62E-03	2.70E-03
Sample ID:	582945	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.05E-03	3.13E-03
Sample ID:	583136	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.32E-03	2.68E-03
Sample ID:	583488	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.85E-03	3.31E-03
Sample ID:	584217	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.17E-02	2.34E-03	2.87E-03
Sample ID:	584913	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.76E-03	3.21E-03
Sample ID:	585348	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.50E-03	3.19E-03
Sample ID:	585555	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.52E-03	3.27E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	585809	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.38E-03	2.89E-03
Sample ID:	586060	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	3.03E-03	4.15E-03
Sample ID:	586659	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.90E-03	3.10E-03
Sample ID:	586927	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	2.43E-03	2.86E-03
Sample ID:	587187	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.68E-03	2.72E-03
Sample ID:	587417	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.30E-03	0.00E+00	2.30E-03
				Cs-137	<1.80E-03	0.00E+00	1.80E-03
				Be-7	1.21E-01	3.37E-02	3.35E-02
				K-40	<3.44E-02	0.00E+00	3.44E-02
Sample ID:	587409	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.03E-03	3.36E-03
Sample ID:	587764	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.61E-03	2.82E-03
Sample ID:	588298	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.22E-03	3.19E-03
Sample ID:	588585	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.92E-03	3.46E-03
Sample ID:	589531	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.54E-03	3.00E-03
Sample ID:	589783	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.29E-03	3.96E-03
Sample ID:	590011	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.42E-03	2.88E-03
Sample ID:	590346	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.12E-03	2.17E-03	3.05E-03
Sample ID:	590473	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.14E-02	2.26E-03	2.73E-03
Sample ID:	590636	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	2.90E-03	2.80E-03
Sample ID:	591194	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	3.03E-03	3.49E-03
Sample ID:	591430	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	3.02E-03	3.91E-03
Sample ID:	591608	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.23E-03	3.18E-03
Sample ID:	591808	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.00E-03	0.00E+00	1.00E-03
				Cs-137	<1.47E-03	0.00E+00	1.47E-03
				Be-7	1.98E-01	4.00E-02	2.55E-02
				K-40	3.20E-02	1.49E-02	4.56E-03
Sample ID:	591800	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.14E-03	3.58E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	592181	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.27E-03	3.31E-03
Sample ID:	592400	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.35E-03	3.58E-03
Sample ID:	592989	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.77E-03	3.37E-03
Sample ID:	593167	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.76E-03	3.31E-03
Sample ID:	593549	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.97E-03	3.07E-03
Sample ID:	593801	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.17E-03	3.47E-03
Sample ID:	594267	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.67E-03	2.74E-03
Sample ID:	594788	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.52E-03	2.87E-03
Sample ID:	594982	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.78E-02	3.39E-03	3.21E-03
Sample ID:	595626	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	2.90E-03	3.19E-03
Sample ID:	596378	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.40E-02	3.72E-03	3.43E-03
Sample ID:	596777	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.70E-03	2.59E-03	3.47E-03
Sample ID:	597265	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.17E-03	0.00E+00	2.17E-03
				Cs-137	<1.95E-03	0.00E+00	1.95E-03
				Be-7	1.37E-01	3.84E-02	4.08E-02
				K-40	3.04E-02	1.45E-02	4.57E-03
Sample ID:	597257	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.94E-03	3.42E-03
Sample ID:	597861	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.09E-03	3.19E-03
Sample ID:	598196	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.54E-03	2.78E-03
Sample ID:	598858	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.89E-03	2.83E-03
Sample ID:	599056	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.19E-03	2.86E-03
Sample ID:	599452	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.72E-02	3.79E-03	3.21E-03
Sample ID:	600291	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.97E-03	3.17E-03
Sample ID:	601115	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.02E-03	3.16E-03
Sample ID:	601276	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.38E-03	3.16E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	601771	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.38E-02	3.30E-03	3.44E-03
Sample ID:	602244	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.07E-02	2.80E-03	2.93E-03
Sample ID:	602499	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.07E-02	2.87E-03	3.12E-03
Sample ID:	602705	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.93E-02	2.91E-03	3.25E-03
Sample ID:	602918	Sample Dates: 10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.62E-03	0.00E+00	1.62E-03
			Cs-137	<1.44E-03	0.00E+00	1.44E-03
			Be-7	1.08E-01	3.21E-02	3.17E-02
			K-40	2.26E-02	1.38E-02	1.46E-02

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID:	582637	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.24E-02	2.80E-03	2.70E-03
Sample ID:	582946	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.27E-02	3.12E-03	3.11E-03
Sample ID:	583137	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.47E-02	2.43E-03	2.70E-03
Sample ID:	583489	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.55E-02	2.84E-03	3.31E-03
Sample ID:	584218	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.52E-02	2.50E-03	2.84E-03
Sample ID:	584914	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.80E-02	2.94E-03	3.23E-03
Sample ID:	585349	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.47E-02	2.62E-03	3.20E-03
Sample ID:	585556	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.40E-02	2.75E-03	3.28E-03
Sample ID:	585810	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.89E-02	2.69E-03	2.88E-03
Sample ID:	586061	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	9.09E-03	2.50E-03	3.35E-03
Sample ID:	586660	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.78E-02	2.72E-03	3.07E-03
Sample ID:	586928	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.29E-02	2.42E-03	2.88E-03
Sample ID:	587188	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.73E-02	2.58E-03	2.73E-03
Sample ID:	587418	Sample Dates: 1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.06E-03	0.00E+00	2.06E-03
			Cs-137	<1.36E-03	0.00E+00	1.36E-03
			Be-7	1.39E-01	3.28E-02	2.26E-02
			K-40	<4.18E-02	0.00E+00	4.18E-02
Sample ID:	587410	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.62E-02	2.89E-03	3.35E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID:	587765	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.45E-03	2.79E-03
Sample ID:	588299	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.04E-03	3.18E-03
Sample ID:	588586	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.28E-02	2.80E-03	3.50E-03
Sample ID:	589532	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.50E-03	2.98E-03
Sample ID:	589784	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	3.26E-03	4.00E-03
Sample ID:	590012	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	2.51E-03	2.87E-03
Sample ID:	590347	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.03E-03	2.17E-03	3.05E-03
Sample ID:	590474	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.21E-02	2.32E-03	2.75E-03
Sample ID:	590637	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	2.84E-03	2.79E-03
Sample ID:	591195	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	3.08E-03	3.50E-03
Sample ID:	591431	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.89E-03	3.90E-03
Sample ID:	591609	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.18E-03	3.20E-03
Sample ID:	591809	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<3.06E-04	0.00E+00	3.06E-04
				Be-7	1.56E-01	3.70E-02	3.22E-02
				K-40	2.39E-02	1.29E-02	4.62E-03
Sample ID:	591801	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.15E-03	3.54E-03
Sample ID:	592182	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.15E-03	3.32E-03
Sample ID:	592401	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.42E-03	3.58E-03
Sample ID:	592990	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.26E-02	2.70E-03	3.36E-03
Sample ID:	593168	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.93E-03	3.28E-03
Sample ID:	593550	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.02E-03	3.11E-03
Sample ID:	593802	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.08E-03	3.46E-03
Sample ID:	594268	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.79E-03	2.72E-03
Sample ID:	594789	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.58E-03	2.87E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID:	594983	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.18E-03	3.23E-03
Sample ID:	595627	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	2.93E-03	3.17E-03
Sample ID:	596379	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.57E-03	3.42E-03
Sample ID:	596778	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.07E-02	2.67E-03	3.51E-03
Sample ID:	597266	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.66E-03	0.00E+00	1.66E-03
				Cs-137	<1.05E-03	0.00E+00	1.05E-03
				Be-7	1.54E-01	4.05E-02	4.15E-02
				K-40	<3.54E-02	0.00E+00	3.54E-02
Sample ID:	597258	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.11E-03	3.42E-03
Sample ID:	597862	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.00E-03	3.14E-03
Sample ID:	598197	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.62E-03	2.79E-03
Sample ID:	598859	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.68E-03	2.85E-03
Sample ID:	599057	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.08E-03	2.87E-03
Sample ID:	599453	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.63E-02	3.75E-03	3.21E-03
Sample ID:	600292	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.15E-03	3.13E-03
Sample ID:	601116	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.11E-03	3.20E-03
Sample ID:	601277	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.37E-03	3.16E-03
Sample ID:	601772	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.38E-03	3.41E-03
Sample ID:	602245	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.72E-03	2.96E-03
Sample ID:	602500	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.87E-03	3.12E-03
Sample ID:	602706	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.87E-03	3.04E-03
Sample ID:	602919	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.93E-03	0.00E+00	1.93E-03
				Cs-137	<1.58E-03	0.00E+00	1.58E-03
				Be-7	1.05E-01	3.53E-02	4.13E-02
				K-40	<3.60E-02	0.00E+00	3.60E-02

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID:	582638	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.72E-03	2.70E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID:	582947	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.25E-03	3.12E-03
Sample ID:	583138	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.43E-03	2.70E-03
Sample ID:	583490	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	3.03E-03	3.31E-03
Sample ID:	584219	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.55E-03	2.84E-03
Sample ID:	584915	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.06E-03	3.23E-03
Sample ID:	585350	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.72E-03	3.20E-03
Sample ID:	585557	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.82E-03	3.28E-03
Sample ID:	585811	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.52E-03	2.88E-03
Sample ID:	586062	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.72E-03	3.35E-03
Sample ID:	586661	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.82E-03	3.08E-03
Sample ID:	586929	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.48E-03	2.88E-03
Sample ID:	587189	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	2.78E-03	2.72E-03
Sample ID:	587419	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.66E-03	0.00E+00	1.66E-03
				Cs-137	<1.05E-03	0.00E+00	1.05E-03
				Be-7	1.53E-01	3.51E-02	2.53E-02
				K-40	<3.58E-02	0.00E+00	3.58E-02
Sample ID:	587411	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.07E-03	3.35E-03
Sample ID:	587766	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.57E-03	2.80E-03
Sample ID:	588300	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.19E-03	3.17E-03
Sample ID:	588587	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.85E-03	3.50E-03
Sample ID:	589533	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.50E-03	2.98E-03
Sample ID:	589785	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	3.15E-03	3.99E-03
Sample ID:	590013	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.53E-03	2.87E-03
Sample ID:	590348	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.07E-03	2.29E-03	3.05E-03
Sample ID:	590475	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.86E-03	2.19E-03	2.75E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID:	590638	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.87E-03	2.79E-03
Sample ID:	591196	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	3.04E-03	3.50E-03
Sample ID:	591432	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	3.02E-03	3.89E-03
Sample ID:	591610	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.22E-03	3.21E-03
Sample ID:	591810	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.28E-03	0.00E+00	1.28E-03
				Cs-137	<1.60E-03	0.00E+00	1.60E-03
				Be-7	1.53E-01	3.60E-02	2.95E-02
				K-40	2.24E-02	1.26E-02	4.68E-03
Sample ID:	591802	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.17E-03	3.53E-03
Sample ID:	592183	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.33E-03	3.32E-03
Sample ID:	592402	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.23E-03	3.58E-03
Sample ID:	592991	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.81E-03	3.37E-03
Sample ID:	593169	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	3.08E-03	3.29E-03
Sample ID:	593551	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.95E-03	3.10E-03
Sample ID:	593803	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.13E-03	3.46E-03
Sample ID:	594269	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.73E-03	2.72E-03
Sample ID:	594790	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.64E-03	2.87E-03
Sample ID:	594984	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	3.31E-03	3.22E-03
Sample ID:	595628	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.98E-03	3.17E-03
Sample ID:	596380	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.37E-03	3.42E-03
Sample ID:	596779	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	2.64E-03	3.51E-03
Sample ID:	597267	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.52E-03	0.00E+00	2.52E-03
				Cs-137	<1.71E-03	0.00E+00	1.71E-03
				Be-7	1.51E-01	3.67E-02	3.00E-02
				K-40	<3.47E-02	0.00E+00	3.47E-02
Sample ID:	597259	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.11E-03	3.42E-03
Sample ID:	597863	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.11E-03	3.17E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID:	598198	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.62E-03	2.77E-03
Sample ID:	598860	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.02E-03	2.83E-03	4.54E-03
Sample ID:	599058	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	2.99E-03	2.88E-03
Sample ID:	599454	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.69E-02	3.78E-03	3.21E-03
Sample ID:	600293	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.19E-03	3.13E-03
Sample ID:	601117	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.11E-03	3.20E-03
Sample ID:	601278	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.32E-03	3.17E-03
Sample ID:	601773	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.13E-03	3.41E-03
Sample ID:	602246	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.68E-03	2.95E-03
Sample ID:	602501	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.80E-03	3.12E-03
Sample ID:	602707	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.78E-03	3.04E-03
Sample ID:	602920	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<1.36E-03	0.00E+00	1.35E-03
				Be-7	1.19E-01	3.27E-02	2.90E-02
				K-40	<3.94E-02	0.00E+00	3.94E-02

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID:	582639	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.71E-03	2.72E-03
Sample ID:	582948	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.14E-03	3.13E-03
Sample ID:	583139	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.39E-03	2.69E-03
Sample ID:	583491	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.05E-03	3.30E-03
Sample ID:	584220	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.26E-02	2.39E-03	2.88E-03
Sample ID:	584916	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.89E-03	3.21E-03
Sample ID:	585351	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.62E-03	3.19E-03
Sample ID:	585558	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.90E-03	3.26E-03
Sample ID:	585812	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.66E-03	2.93E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID:	586063	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.13E-02	2.61E-03	3.32E-03
Sample ID:	586662	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	2.89E-03	3.11E-03
Sample ID:	586930	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.57E-03	2.89E-03
Sample ID:	587190	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.70E-03	2.72E-03
Sample ID:	587420	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.59E-03	0.00E+00	1.59E-03
				Be-7	1.74E-01	3.89E-02	3.22E-02
				K-40	1.86E-02	1.13E-02	4.58E-03
Sample ID:	587412	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	3.08E-03	3.36E-03
Sample ID:	587767	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.59E-03	2.81E-03
Sample ID:	588301	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	3.31E-03	3.23E-03
Sample ID:	588588	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.99E-03	3.42E-03
Sample ID:	589534	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	2.40E-03	3.03E-03
Sample ID:	589786	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	3.18E-03	3.96E-03
Sample ID:	590014	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.12E-02	2.32E-03	2.87E-03
Sample ID:	590349	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.89E-03	2.20E-03	3.02E-03
Sample ID:	590476	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.04E-02	2.23E-03	2.76E-03
Sample ID:	590639	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	2.88E-03	2.78E-03
Sample ID:	591197	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.21E-03	3.49E-03
Sample ID:	591433	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.92E-03	2.75E-03	3.93E-03
Sample ID:	591611	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.13E-03	3.14E-03
Sample ID:	591811	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.27E-03	0.00E+00	1.27E-03
				Cs-137	<1.59E-03	0.00E+00	1.59E-03
				Be-7	1.29E-01	3.72E-02	4.19E-02
				K-40	<3.70E-02	0.00E+00	3.70E-02
Sample ID:	591803	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.89E-03	3.61E-03
Sample ID:	592184	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.21E-03	3.30E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID:	592403	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.33E-03	3.58E-03
Sample ID:	592992	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	2.87E-03	3.40E-03
Sample ID:	593170	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	3.04E-03	3.26E-03
Sample ID:	593552	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.94E-03	3.08E-03
Sample ID:	593804	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	3.36E-03	3.48E-03
Sample ID:	594270	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.82E-03	2.74E-03
Sample ID:	594791	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.50E-03	2.88E-03
Sample ID:	594985	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.61E-02	3.73E-03	3.21E-03
Sample ID:	595629	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.85E-03	3.18E-03
Sample ID:	596381	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.17E-02	3.62E-03	3.42E-03
Sample ID:	596780	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.64E-03	3.46E-03
Sample ID:	597268	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.49E-03	0.00E+00	2.49E-03
				Cs-137	<1.79E-03	0.00E+00	1.79E-03
				Be-7	1.79E-01	4.19E-02	3.85E-02
				K-40	<3.41E-02	0.00E+00	3.41E-02
Sample ID:	597260	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.16E-03	3.44E-03
Sample ID:	597864	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.18E-03	3.19E-03
Sample ID:	598199	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.60E-03	2.76E-03
Sample ID:	598861	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	2.72E-03	2.84E-03
Sample ID:	599059	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.06E-03	2.88E-03
Sample ID:	599455	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.36E-03	3.19E-03
Sample ID:	600294	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.29E-03	3.19E-03
Sample ID:	601118	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.20E-03	3.11E-03
Sample ID:	601279	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.44E-03	3.18E-03
Sample ID:	601774	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.41E-03	3.42E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID:	602247	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	2.85E-03	2.94E-03
Sample ID:	602502	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.82E-03	3.02E-03
Sample ID:	602708	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.77E-03	3.14E-03
Sample ID:	602921	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.29E-03	0.00E+00	1.29E-03
				Cs-137	<1.49E-03	0.00E+00	1.49E-03
				Be-7	1.06E-01	3.30E-02	3.46E-02
				K-40	<3.01E-02	0.00E+00	3.01E-02

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID:	582640	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.69E-03	2.70E-03
Sample ID:	582949	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.13E-03	3.10E-03
Sample ID:	583140	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.54E-03	2.71E-03
Sample ID:	583492	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.95E-03	3.32E-03
Sample ID:	584221	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.32E-02	2.40E-03	2.84E-03
Sample ID:	584917	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.05E-03	3.23E-03
Sample ID:	585352	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.56E-03	3.20E-03
Sample ID:	585559	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.86E-03	3.28E-03
Sample ID:	585813	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.59E-03	2.88E-03
Sample ID:	586064	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.09E-02	2.61E-03	3.35E-03
Sample ID:	586663	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.84E-03	3.07E-03
Sample ID:	586931	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.44E-03	2.89E-03
Sample ID:	587191	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.72E-03	2.73E-03
Sample ID:	587421	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.28E-03	0.00E+00	1.28E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.44E-01	3.47E-02	2.85E-02
				K-40	<1.84E-02	0.00E+00	1.84E-02
Sample ID:	587413	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.02E-03	3.35E-03
Sample ID:	587768	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.63E-03	2.79E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID:	588302	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.20E-03	3.19E-03
Sample ID:	588589	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.79E-03	3.50E-03
Sample ID:	589535	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.51E-03	2.98E-03
Sample ID:	589787	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	3.25E-03	4.00E-03
Sample ID:	590015	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.35E-03	2.87E-03
Sample ID:	590350	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	6.87E-03	2.16E-03	3.05E-03
Sample ID:	590477	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.50E-03	2.05E-03	2.75E-03
Sample ID:	590640	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	2.86E-03	2.78E-03
Sample ID:	591198	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.13E-03	3.51E-03
Sample ID:	591434	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	2.98E-03	3.91E-03
Sample ID:	591612	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	3.23E-03	3.13E-03
Sample ID:	591812	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.28E-03	0.00E+00	1.28E-03
				Cs-137	<1.06E-03	0.00E+00	1.06E-03
				Be-7	1.44E-01	3.50E-02	3.01E-02
				K-40	<2.57E-02	0.00E+00	2.57E-02
Sample ID:	591804	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.08E-03	3.61E-03
Sample ID:	592185	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.21E-03	3.32E-03
Sample ID:	592404	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	3.27E-03	3.58E-03
Sample ID:	592993	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.92E-03	3.35E-03
Sample ID:	593171	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.99E-03	3.28E-03
Sample ID:	593553	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.83E-03	3.11E-03
Sample ID:	593805	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.15E-03	3.46E-03
Sample ID:	594271	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.78E-03	2.71E-03
Sample ID:	594792	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.48E-03	2.87E-03
Sample ID:	594986	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.34E-03	3.24E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID:	595630	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.95E-03	3.16E-03
Sample ID:	596382	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.56E-03	3.42E-03
Sample ID:	596781	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.63E-03	3.52E-03
Sample ID:	597269	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.75E-03	0.00E+00	1.75E-03
				Cs-137	<1.79E-03	0.00E+00	1.79E-03
				Be-7	1.55E-01	3.86E-02	3.32E-02
				K-40	<3.55E-02	0.00E+00	3.55E-02
Sample ID:	597261	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	3.04E-03	3.43E-03
Sample ID:	597865	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	3.06E-03	3.14E-03
Sample ID:	598200	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.62E-03	2.79E-03
Sample ID:	598862	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.79E-03	2.84E-03
Sample ID:	599060	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.08E-03	2.88E-03
Sample ID:	599456	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.02E-02	3.90E-03	3.20E-03
Sample ID:	600295	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.32E-03	3.16E-03
Sample ID:	601119	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.90E-03	3.17E-03
Sample ID:	601280	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.28E-03	3.15E-03
Sample ID:	601775	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.54E-03	3.73E-03
Sample ID:	602248	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.62E-03	2.97E-03
Sample ID:	602503	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.80E-03	3.12E-03
Sample ID:	602709	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	3.38E-03	3.78E-03
Sample ID:	602922	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.69E-03	0.00E+00	1.69E-03
				Cs-137	<1.38E-03	0.00E+00	1.38E-03
				Be-7	1.64E-01	3.85E-02	3.03E-02
				K-40	<3.79E-02	0.00E+00	3.79E-02

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	582641	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	2.88E-03	2.72E-03
Sample ID:	582950	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.99E-03	3.10E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	583141	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.11E-02	2.26E-03	2.71E-03
Sample ID:	583493	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.79E-03	3.30E-03
Sample ID:	584222	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.39E-03	2.87E-03
Sample ID:	584918	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.92E-03	3.21E-03
Sample ID:	585353	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.73E-03	3.19E-03
Sample ID:	585560	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.73E-03	3.26E-03
Sample ID:	585814	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.48E-03	2.93E-03
Sample ID:	586065	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.56E-03	3.32E-03
Sample ID:	586664	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	2.79E-03	3.10E-03
Sample ID:	586932	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.40E-03	2.86E-03
Sample ID:	587192	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.56E-03	2.72E-03
Sample ID:	587422	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.34E-03	0.00E+00	1.34E-03
				Cs-137	<1.28E-03	0.00E+00	1.28E-03
				Be-7	1.09E-01	2.92E-02	2.03E-02
				K-40	<2.89E-02	0.00E+00	2.89E-02
Sample ID:	587414	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.93E-03	3.35E-03
Sample ID:	587769	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.53E-03	2.81E-03
Sample ID:	588303	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.15E-03	3.24E-03
Sample ID:	588590	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.07E-02	2.62E-03	3.42E-03
Sample ID:	589536	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.58E-03	3.02E-03
Sample ID:	589788	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	3.20E-03	3.96E-03
Sample ID:	590016	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.38E-03	2.88E-03
Sample ID:	590351	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.90E-03	2.21E-03	3.03E-03
Sample ID:	590478	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.70E-03	2.10E-03	2.68E-03
Sample ID:	590641	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	2.97E-03	2.86E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	591199	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.17E-03	3.41E-03
Sample ID:	591435	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.28E-02	3.01E-03	4.01E-03
Sample ID:	591613	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.09E-03	3.16E-03
Sample ID:	591813	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.89E-03	0.00E+00	1.89E-03
				Cs-137	<1.89E-03	0.00E+00	1.89E-03
				Be-7	1.96E-01	4.12E-02	2.92E-02
				K-40	<2.89E-02	0.00E+00	2.89E-02
Sample ID:	591805	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.05E-03	3.58E-03
Sample ID:	592186	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.15E-03	3.29E-03
Sample ID:	592405	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.35E-03	3.60E-03
Sample ID:	592994	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.83E-03	3.41E-03
Sample ID:	593172	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.80E-03	3.26E-03
Sample ID:	593554	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.01E-03	3.08E-03
Sample ID:	593806	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.00E-03	3.48E-03
Sample ID:	594272	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.73E-03	2.74E-03
Sample ID:	594793	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.50E-03	2.87E-03
Sample ID:	594987	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	3.30E-03	3.21E-03
Sample ID:	595631	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.81E-03	3.18E-03
Sample ID:	596383	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.15E-02	3.61E-03	3.42E-03
Sample ID:	596782	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.85E-03	3.48E-03
Sample ID:	597270	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.90E-03	0.00E+00	1.90E-03
				Be-7	1.34E-01	3.48E-02	2.82E-02
				K-40	<4.28E-02	0.00E+00	4.28E-02
Sample ID:	597262	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.15E-03	3.42E-03
Sample ID:	597866	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.12E-03	3.19E-03
Sample ID:	598201	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.53E-03	2.77E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	598863	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.77E-03	2.85E-03
Sample ID:	599061	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.13E-03	2.86E-03
Sample ID:	599457	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.65E-02	3.75E-03	3.19E-03
Sample ID:	600296	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.01E-03	3.06E-03
Sample ID:	601120	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.04E-03	3.30E-03
Sample ID:	601281	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.24E-03	3.15E-03
Sample ID:	601776	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.42E-03	3.42E-03
Sample ID:	602249	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.71E-03	2.94E-03
Sample ID:	602504	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.78E-03	3.10E-03
Sample ID:	602710	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.80E-03	3.05E-03
Sample ID:	602923	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.57E-03	0.00E+00	1.57E-03
				Cs-137	<1.68E-03	0.00E+00	1.68E-03
				Be-7	1.54E-01	4.29E-02	4.65E-02
				K-40	<3.30E-02	0.00E+00	3.30E-02

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID:	582642	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	2.86E-03	2.71E-03
Sample ID:	582951	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	3.12E-03	3.13E-03
Sample ID:	583142	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	3.12E-03	3.65E-03
Sample ID:	583494	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.93E-03	3.32E-03
Sample ID:	584223	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.52E-03	2.89E-03
Sample ID:	584919	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.99E-03	3.21E-03
Sample ID:	585354	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.66E-03	3.20E-03
Sample ID:	585561	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.97E-03	3.28E-03
Sample ID:	585815	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.55E-03	2.88E-03
Sample ID:	586066	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.22E-02	2.68E-03	3.35E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID:	586665	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.81E-03	3.10E-03
Sample ID:	586933	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.52E-03	2.85E-03
Sample ID:	587193	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.56E-03	2.73E-03
Sample ID:	587423	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.99E-03	0.00E+00	1.99E-03
				Cs-137	<1.84E-03	0.00E+00	1.84E-03
				Be-7	2.00E-01	4.09E-02	2.04E-02
				K-40	2.71E-02	1.55E-02	1.58E-02
Sample ID:	587415	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.11E-03	3.36E-03
Sample ID:	587770	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.59E-03	2.82E-03
Sample ID:	588304	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	3.26E-03	3.19E-03
Sample ID:	588591	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.95E-03	3.46E-03
Sample ID:	589537	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	2.48E-03	3.00E-03
Sample ID:	589789	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.30E-03	3.97E-03
Sample ID:	590017	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.49E-03	2.87E-03
Sample ID:	590352	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.35E-03	2.19E-03	3.05E-03
Sample ID:	590479	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.20E-03	2.73E-03
Sample ID:	590642	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.84E-03	2.80E-03
Sample ID:	591200	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.31E-03	3.49E-03
Sample ID:	591436	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.95E-03	3.91E-03
Sample ID:	591614	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.22E-03	3.19E-03
Sample ID:	591814	Sample Dates:	4/4/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.02E-03	0.00E+00	1.02E-03
				Cs-137	<1.60E-03	0.00E+00	1.60E-03
				Be-7	1.61E-01	4.28E-02	4.61E-02
				K-40	<3.44E-02	0.00E+00	3.44E-02
Sample ID:	591806	Sample Dates:	7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.98E-03	3.57E-03
Sample ID:	592187	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.28E-03	3.32E-03
Sample ID:	592406	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.19E-03	3.58E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID:	592995	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	2.85E-03	3.41E-03
Sample ID:	593173	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.95E-03	3.28E-03
Sample ID:	593555	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.89E-03	3.08E-03
Sample ID:	593807	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.27E-03	3.46E-03
Sample ID:	594273	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	2.84E-03	2.74E-03
Sample ID:	594794	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.59E-03	2.87E-03
Sample ID:	594988	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.78E-02	3.38E-03	3.21E-03
Sample ID:	595632	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.85E-03	3.19E-03
Sample ID:	596384	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.21E-02	3.63E-03	3.41E-03
Sample ID:	596783	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.02E-02	2.62E-03	3.49E-03
Sample ID:	597271	Sample Dates:	7/4/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.75E-03	0.00E+00	1.75E-03
				Cs-137	<1.55E-03	0.00E+00	1.55E-03
				Be-7	1.27E-01	3.54E-02	3.54E-02
				K-40	3.77E-02	1.83E-02	1.89E-02
Sample ID:	597263	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.08E-03	3.42E-03
Sample ID:	597867	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.08E-03	3.20E-03
Sample ID:	598202	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.34E-03	2.77E-03
Sample ID:	598864	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.82E-03	2.82E-03
Sample ID:	599062	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	2.92E-03	2.86E-03
Sample ID:	599458	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.68E-03	3.21E-03
Sample ID:	600297	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.03E-03	3.17E-03
Sample ID:	601121	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.88E-03	3.16E-03
Sample ID:	601282	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.29E-03	3.17E-03
Sample ID:	601777	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.33E-03	3.50E-03
Sample ID:	602250	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.62E-03	2.93E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 602505	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.89E-02	2.79E-03	3.12E-03
Sample ID: 602711	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.93E-02	2.78E-03	3.04E-03
Sample ID: 602924	Sample Dates: 10/3/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.97E-03	0.00E+00	1.97E-03
		Cs-137	<1.49E-03	0.00E+00	1.49E-03
		Be-7	1.07E-01	3.19E-02	2.98E-02
		K-40	4.98E-02	2.23E-02	2.42E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 582651	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<3.33E-02	0.00E+00	3.33E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<5.32E-01	0.00E+00	5.32E-01
Sample ID: 582952	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	<4.83E-01	0.00E+00	4.83E-01
Sample ID: 583143	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.94E-02	0.00E+00	3.94E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	<5.84E-01	0.00E+00	5.84E-01
Sample ID: 583495	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.96E-02	0.00E+00	3.96E-02
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
		K-40	4.02E-01	2.56E-01	3.14E-01
Sample ID: 584224	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	4.32E-01	2.55E-01	3.08E-01
Sample ID: 584920	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<2.68E-01	0.00E+00	2.68E-01
		K-40	<6.02E-01	0.00E+00	6.02E-01
Sample ID: 585355	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.84E-02	0.00E+00	3.84E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<2.21E-01	0.00E+00	2.21E-01
		K-40	5.81E-01	2.69E-01	2.24E-01
Sample ID: 585562	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 585562	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	2.28E-01	1.94E-01	2.69E-01
Sample ID: 585816	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.59E-02	0.00E+00	2.59E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 586067	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<3.23E-02	0.00E+00	3.23E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<2.90E-01	0.00E+00	2.90E-01
Sample ID: 586666	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 586934	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
Sample ID: 587194	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
Sample ID: 587424	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<2.42E-01	0.00E+00	2.42E-01
Sample ID: 587771	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.93E-02	0.00E+00	1.93E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 588305	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.40E-02	0.00E+00	4.40E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
Sample ID: 588592	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 588592	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	<6.84E-01	0.00E+00	6.84E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 589538	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	1.99E-01	1.88E-01	2.74E-01
Sample ID: 589790	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.79E-02	0.00E+00	3.79E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	5.91E-01	2.56E-01	7.28E-02
Sample ID: 590018	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<2.72E-01	0.00E+00	2.72E-01
		K-40	4.70E-01	2.77E-01	3.33E-01
Sample ID: 590353	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<2.02E-01	0.00E+00	2.02E-01
		K-40	6.28E-01	2.83E-01	2.66E-01
Sample ID: 590480	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	7.95E-01	3.04E-01	2.35E-01
Sample ID: 590643	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<3.06E-02	0.00E+00	3.06E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	3.71E-01	2.58E-01	3.46E-01
Sample ID: 591201	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.34E-02	0.00E+00	4.34E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	5.68E-01	2.86E-01	3.00E-01
Sample ID: 591437	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.21E-02	0.00E+00	4.21E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	6.91E-01	2.76E-01	7.20E-02
Sample ID: 591615	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.39E-02	0.00E+00	4.39E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	<6.32E-01	0.00E+00	6.32E-01
Sample ID: 591815	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.47E-02	0.00E+00	3.47E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 591815	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	<7.60E-01	0.00E+00	7.60E-01
Sample ID: 592188	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 592407	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 592996	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 593174	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 593556	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 593808	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 594274	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 594795	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
Sample ID: 594989	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<3.29E-02	0.00E+00	3.29E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 594989	Sample Dates: 9/5/2023 - 9/12/2023	K-40	7.82E-01	2.83E-01	6.62E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 595633	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.08E-02	0.00E+00	5.08E-02
		Cs-134	<3.30E-02	0.00E+00	3.30E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	7.33E-01	3.18E-01	2.67E-01
Sample ID: 596385	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<3.29E-02	0.00E+00	3.29E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	8.71E-01	3.47E-01	2.81E-01
Sample ID: 596784	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	6.62E-01	2.60E-01	6.65E-02
Sample ID: 597272	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.71E-01	2.61E-01	2.33E-01
Sample ID: 597868	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	5.64E-01	2.80E-01	3.12E-01
Sample ID: 598203	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.64E-02	0.00E+00	3.64E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.81E-02	0.00E+00	2.81E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	7.72E-01	3.04E-01	7.75E-02
Sample ID: 598865	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<3.90E-01	0.00E+00	3.90E-01
Sample ID: 599063	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.88E-01	0.00E+00	2.88E-01
		K-40	6.63E-01	3.02E-01	2.66E-01
Sample ID: 599459	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<3.28E-02	0.00E+00	3.28E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.78E-01	0.00E+00	2.78E-01
		K-40	4.18E-01	2.64E-01	3.15E-01
Sample ID: 600298	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.13E-02	0.00E+00	6.13E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - WSW @ 0.91 miles]

Sample ID: 600298	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.72E-01	0.00E+00	2.72E-01
		K-40	<6.17E-01	0.00E+00	6.17E-01
Sample ID: 601122	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
Sample ID: 601283	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 601778	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 602251	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
Sample ID: 602506	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.03E-02	0.00E+00	5.03E-02
		Cs-134	<3.34E-02	0.00E+00	3.34E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 602712	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.71E-02	0.00E+00	3.71E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID: 582652	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
Sample ID: 582953	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 583144	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	583144	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	6.19E-01	3.12E-01	3.54E-01
Sample ID:	583496	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.90E-01	0.00E+00	1.90E-01
				K-40	5.42E-01	2.60E-01	2.52E-01
Sample ID:	584225	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.58E-02	0.00E+00	2.58E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	<4.28E-01	0.00E+00	4.28E-01
Sample ID:	584921	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.79E-02	0.00E+00	2.79E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<2.62E-02	0.00E+00	2.62E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	5.47E-01	2.64E-01	2.61E-01
Sample ID:	585356	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.09E-02	0.00E+00	3.09E-02
				Cs-134	<2.48E-02	0.00E+00	2.48E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	<4.92E-01	0.00E+00	4.92E-01
Sample ID:	585563	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.99E-02	0.00E+00	2.99E-02
				Cs-134	<1.96E-02	0.00E+00	1.96E-02
				Cs-137	<2.36E-02	0.00E+00	2.36E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	1.97E-01	1.48E-01	1.55E-01
Sample ID:	585817	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.29E-02	0.00E+00	2.29E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	8.07E-01	2.84E-01	6.43E-02
Sample ID:	586068	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.60E-02	0.00E+00	2.60E-02
				Cs-134	<3.94E-02	0.00E+00	3.94E-02
				Cs-137	<3.40E-02	0.00E+00	3.40E-02
				Be-7	<2.40E-01	0.00E+00	2.40E-01
				K-40	8.45E-01	3.46E-01	2.63E-01
Sample ID:	586667	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.38E-02	0.00E+00	3.38E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<1.73E-02	0.00E+00	1.73E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	<4.89E-01	0.00E+00	4.89E-01
Sample ID:	586935	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.98E-02	0.00E+00	3.98E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<1.89E-01	0.00E+00	1.89E-01
				K-40	<7.39E-01	0.00E+00	7.39E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID: 587195	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	5.39E-01	2.60E-01	2.65E-01
Sample ID: 587425	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	5.18E-01	2.52E-01	2.43E-01
Sample ID: 587772	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.61E-01	2.67E-01	2.65E-01
Sample ID: 588306	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	3.21E-01	2.16E-01	2.67E-01
Sample ID: 588593	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	5.52E-01	2.87E-01	3.31E-01
Sample ID: 589539	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<4.51E-03	0.00E+00	4.51E-03
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	3.23E-01	1.81E-01	6.74E-02
Sample ID: 589791	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	6.26E-01	2.77E-01	2.48E-01
Sample ID: 590019	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	<5.36E-01	0.00E+00	5.36E-01
Sample ID: 590354	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.34E-02	0.00E+00	4.34E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<3.03E-02	0.00E+00	3.03E-02
		Be-7	<2.38E-01	0.00E+00	2.38E-01
		K-40	5.14E-01	2.70E-01	2.82E-01
Sample ID: 590481	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.66E-02	0.00E+00	3.66E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID: 590481	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	8.13E-01	3.30E-01	2.99E-01
Sample ID: 590644	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 591202	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
Sample ID: 591438	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 591616	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 591816	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 592189	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 592408	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<9.74E-02	0.00E+00	9.74E-02
Sample ID: 592997	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 593175	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 593175	Sample Dates: 8/1/2023 - 8/8/2023	K-40	4.55E-01	2.12E-01	6.48E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID: 593557	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<4.89E-03	0.00E+00	4.89E-03
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	7.27E-01	2.67E-01	6.35E-02
Sample ID: 593809	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	8.51E-01	2.95E-01	6.59E-02
Sample ID: 594275	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	5.66E-01	2.35E-01	6.39E-02
Sample ID: 594796	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	6.41E-01	2.86E-01	2.74E-01
Sample ID: 594990	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	<5.41E-01	0.00E+00	5.41E-01
Sample ID: 595634	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	6.11E-01	2.75E-01	2.60E-01
Sample ID: 596386	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	6.60E-01	2.59E-01	6.62E-02
Sample ID: 596785	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	3.10E-01	2.14E-01	2.73E-01
Sample ID: 597273	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	5.96E-01	2.62E-01	2.32E-01
Sample ID: 597869	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID: 597869	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	7.18E-01	2.77E-01	6.95E-02
Sample ID: 598204	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 598866	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
Sample ID: 599064	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 599460	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 600299	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.95E-02	0.00E+00	4.95E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 601123	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 601284	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 601779	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
Sample ID: 602252	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.15E-02	0.00E+00	4.15E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	7.03E-01	3.66E-01	4.49E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.61 miles]

Sample ID:	602507	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.84E-02	0.00E+00	4.84E-02
				Cs-134	<2.88E-02	0.00E+00	2.88E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<2.15E-01	0.00E+00	2.15E-01
				K-40	7.65E-01	2.81E-01	6.69E-02

Sample ID:	602713	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.97E-02	0.00E+00	3.97E-02
				Cs-134	<2.80E-02	0.00E+00	2.80E-02
				Cs-137	<2.81E-02	0.00E+00	2.81E-02
				Be-7	<2.58E-01	0.00E+00	2.58E-01
				K-40	8.34E-01	3.54E-01	3.08E-01

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID:	582653	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.30E-02	0.00E+00	3.30E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<2.49E-01	0.00E+00	2.49E-01
				K-40	<6.49E-01	0.00E+00	6.49E-01

Sample ID:	582954	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.25E-02	0.00E+00	2.25E-02
				Cs-134	<2.05E-02	0.00E+00	2.05E-02
				Cs-137	<2.74E-02	0.00E+00	2.74E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	4.94E-01	2.55E-01	2.67E-01

Sample ID:	583145	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.59E-02	0.00E+00	2.59E-02
				Cs-134	<2.58E-02	0.00E+00	2.58E-02
				Cs-137	<2.50E-02	0.00E+00	2.50E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	4.14E-01	2.23E-01	2.24E-01

Sample ID:	583497	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.33E-02	0.00E+00	2.33E-02
				Cs-134	<1.69E-02	0.00E+00	1.69E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	3.41E-01	2.06E-01	2.25E-01

Sample ID:	584226	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<2.48E-02	0.00E+00	2.48E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	6.38E-01	2.55E-01	6.65E-02

Sample ID:	584922	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.10E-02	0.00E+00	2.10E-02
				Cs-134	<2.68E-02	0.00E+00	2.68E-02
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	<6.50E-01	0.00E+00	6.50E-01

Sample ID:	585357	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<1.96E-02	0.00E+00	1.96E-02
				Cs-137	<2.06E-02	0.00E+00	2.06E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	<4.60E-01	0.00E+00	4.60E-01

Sample ID:	585564	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID: 585564	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.39E-02	0.00E+00	3.39E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	4.56E-01	2.59E-01	3.06E-01
Sample ID: 585818	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 586069	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.00E-02	0.00E+00	4.00E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
Sample ID: 586668	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 586936	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 587196	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 587426	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 587773	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 588307	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 588594	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID:	588594	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.62E-01	0.00E+00	4.62E-01
Sample ID:	589540	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.01E-02	0.00E+00	3.01E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<2.70E-02	0.00E+00	2.70E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	<4.02E-01	0.00E+00	4.02E-01
Sample ID:	589792	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.55E-02	0.00E+00	3.55E-02
				Cs-134	<2.67E-02	0.00E+00	2.67E-02
				Cs-137	<2.61E-02	0.00E+00	2.61E-02
				Be-7	<2.00E-01	0.00E+00	2.00E-01
				K-40	<5.24E-01	0.00E+00	5.24E-01
Sample ID:	590020	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.30E-02	0.00E+00	2.30E-02
				Cs-134	<2.18E-02	0.00E+00	2.18E-02
				Cs-137	<1.45E-02	0.00E+00	1.45E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	<4.73E-01	0.00E+00	4.73E-01
Sample ID:	590355	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.09E-02	0.00E+00	3.09E-02
				Cs-134	<2.73E-02	0.00E+00	2.73E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	4.84E-01	2.76E-01	3.34E-01
Sample ID:	590482	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<2.50E-02	0.00E+00	2.50E-02
				Cs-137	<2.60E-02	0.00E+00	2.60E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	4.95E-01	2.83E-01	3.50E-01
Sample ID:	590645	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<2.33E-02	0.00E+00	2.33E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<8.22E-02	0.00E+00	8.22E-02
				K-40	4.00E-01	2.44E-01	2.93E-01
Sample ID:	591203	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.48E-02	0.00E+00	2.48E-02
				Cs-134	<2.58E-02	0.00E+00	2.58E-02
				Cs-137	<4.26E-03	0.00E+00	4.26E-03
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	5.43E-01	2.91E-01	3.55E-01
Sample ID:	591439	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.54E-02	0.00E+00	2.54E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	6.35E-01	2.71E-01	2.42E-01
Sample ID:	591617	Sample Dates:	6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.90E-02	0.00E+00	2.90E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<2.62E-02	0.00E+00	2.62E-02
				Be-7	<1.46E-01	0.00E+00	1.46E-01
				K-40	<5.99E-01	0.00E+00	5.99E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID: 591817	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.02E-02	0.00E+00	4.02E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	6.84E-01	3.39E-01	3.98E-01
Sample ID: 592190	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.55E-02	0.00E+00	2.55E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	6.75E-01	2.96E-01	2.91E-01
Sample ID: 592409	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<7.94E-02	0.00E+00	7.94E-02
		K-40	<5.32E-01	0.00E+00	5.32E-01
Sample ID: 592998	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	8.32E-01	3.25E-01	3.06E-01
Sample ID: 593176	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<3.06E-02	0.00E+00	3.06E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<5.62E-01	0.00E+00	5.62E-01
Sample ID: 593558	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	6.72E-01	2.81E-01	2.31E-01
Sample ID: 593810	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	3.66E-01	2.63E-01	3.68E-01
Sample ID: 594276	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	3.78E-01	2.13E-01	2.11E-01
Sample ID: 594797	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	5.28E-01	2.57E-01	2.46E-01
Sample ID: 594991	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID: 594991	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID: 595635	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
Sample ID: 596387	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 596786	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 597274	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 597870	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 598205	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 598867	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
Sample ID: 599065	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
Sample ID: 599461	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	3.86E-01	2.79E-01	3.95E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 202 [INDICATOR - S @ 0.86 miles]

Sample ID: 600300	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.71E-02	0.00E+00	5.71E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	3.14E-01	2.30E-01	3.14E-01
Sample ID: 601124	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	4.18E-01	2.27E-01	2.33E-01
Sample ID: 601285	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<3.25E-02	0.00E+00	3.25E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<6.23E-01	0.00E+00	6.23E-01
Sample ID: 601780	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	5.63E-01	2.62E-01	2.44E-01
Sample ID: 602253	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.03E-02	0.00E+00	5.03E-02
		Cs-134	<3.28E-02	0.00E+00	3.28E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<2.68E-01	0.00E+00	2.68E-01
		K-40	7.34E-01	3.69E-01	4.41E-01
Sample ID: 602508	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.69E-02	0.00E+00	5.69E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	7.47E-01	3.05E-01	2.59E-01
Sample ID: 602714	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.40E-02	0.00E+00	4.40E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	5.90E-01	3.21E-01	3.78E-01

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 582654	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	3.21E-01	2.06E-01	2.44E-01
Sample ID: 582955	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.16E-02	0.00E+00	4.16E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<2.60E-01	0.00E+00	2.60E-01
		K-40	<5.82E-01	0.00E+00	5.82E-01
Sample ID: 583146	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 583146	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	<4.70E-01	0.00E+00	4.70E-01
Sample ID: 583498	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 584227	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 584923	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
Sample ID: 585358	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<2.55E-02	0.00E+00	2.55E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
Sample ID: 585565	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
Sample ID: 585819	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 586070	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.09E-02	0.00E+00	4.09E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
Sample ID: 586669	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 586937	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID:	586937	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.91E-01	0.00E+00	4.91E-01
Sample ID:	587197	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.05E-02	0.00E+00	4.05E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<2.43E-02	0.00E+00	2.43E-02
				Be-7	<2.21E-01	0.00E+00	2.21E-01
				K-40	<6.93E-01	0.00E+00	6.93E-01
Sample ID:	587427	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<2.23E-02	0.00E+00	2.23E-02
				Cs-137	<2.40E-02	0.00E+00	2.40E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	6.22E-01	2.90E-01	3.05E-01
Sample ID:	587774	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.69E-02	0.00E+00	2.69E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	3.46E-01	1.87E-01	6.71E-02
Sample ID:	588308	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.90E-02	0.00E+00	2.90E-02
				Cs-134	<2.19E-02	0.00E+00	2.19E-02
				Cs-137	<2.22E-02	0.00E+00	2.22E-02
				Be-7	<1.68E-01	0.00E+00	1.68E-01
				K-40	2.85E-01	1.82E-01	1.86E-01
Sample ID:	588595	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.65E-02	0.00E+00	2.65E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<1.22E-02	0.00E+00	1.22E-02
				Be-7	<1.75E-01	0.00E+00	1.75E-01
				K-40	<4.81E-01	0.00E+00	4.81E-01
Sample ID:	589541	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.15E-02	0.00E+00	3.15E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	5.62E-01	2.39E-01	6.62E-02
Sample ID:	589793	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<2.61E-02	0.00E+00	2.61E-02
				Be-7	<2.00E-01	0.00E+00	2.00E-01
				K-40	5.48E-01	2.61E-01	2.48E-01
Sample ID:	590021	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<2.43E-02	0.00E+00	2.43E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	4.79E-01	2.35E-01	2.06E-01
Sample ID:	590356	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.07E-02	0.00E+00	2.07E-02
				Cs-134	<1.35E-02	0.00E+00	1.35E-02
				Cs-137	<1.47E-02	0.00E+00	1.47E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	6.14E-01	3.03E-01	3.54E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 590483	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	7.02E-01	3.07E-01	3.19E-01
Sample ID: 590646	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	6.33E-01	3.01E-01	3.22E-01
Sample ID: 591204	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	6.83E-01	2.64E-01	6.61E-02
Sample ID: 591440	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	7.91E-01	3.11E-01	2.77E-01
Sample ID: 591618	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<4.57E-03	0.00E+00	4.57E-03
		Be-7	<3.08E-02	0.00E+00	3.08E-02
		K-40	3.36E-01	2.25E-01	2.78E-01
Sample ID: 591818	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	7.04E-01	3.41E-01	4.13E-01
Sample ID: 592191	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	5.11E-01	2.65E-01	2.99E-01
Sample ID: 592410	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<4.88E-01	0.00E+00	4.88E-01
Sample ID: 592999	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	6.98E-01	2.61E-01	6.31E-02
Sample ID: 593177	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 593177	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.91E-01	0.00E+00	1.91E-01
		K-40	6.89E-01	2.92E-01	2.67E-01
Sample ID: 593559	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
Sample ID: 593811	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 594277	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 594798	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<3.34E-02	0.00E+00	3.34E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 594992	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
Sample ID: 595636	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 596388	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 596787	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
Sample ID: 597275	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	5.65E-01	2.83E-01	3.12E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 597871	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	5.52E-01	3.09E-01	3.98E-01
Sample ID: 598206	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	5.33E-01	2.31E-01	6.56E-02
Sample ID: 598868	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.33E-02	0.00E+00	4.33E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<3.45E-02	0.00E+00	3.45E-02
		Be-7	<2.76E-01	0.00E+00	2.76E-01
		K-40	1.12E+00	3.56E-01	2.69E-01
Sample ID: 599066	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<5.20E-01	0.00E+00	5.20E-01
Sample ID: 599462	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	3.62E-01	2.46E-01	3.23E-01
Sample ID: 600301	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.30E-02	0.00E+00	5.30E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	2.55E-01	2.20E-01	3.19E-01
Sample ID: 601125	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	3.53E-01	2.19E-01	2.53E-01
Sample ID: 601286	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.34E-01	2.38E-01	2.61E-01
Sample ID: 601781	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	6.64E-01	2.97E-01	3.13E-01
Sample ID: 602254	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.00E-02	0.00E+00	4.00E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 203 [INDICATOR - SSW @ 1.92 miles]

Sample ID: 602254	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.22E-01	0.00E+00	2.22E-01
		K-40	<7.17E-01	0.00E+00	7.17E-01
Sample ID: 602509	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.88E-02	0.00E+00	4.88E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
Sample ID: 602715	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.51E-02	0.00E+00	4.51E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
Sample ID: 602715	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		K-40	4.96E-01	3.44E-01	4.81E-01

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID: 582655	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.38E-02	0.00E+00	3.38E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 582956	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.01E-01	2.41E-01	2.11E-01
Sample ID: 582956	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 583147	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.34E-01	2.43E-01	2.00E-01
Sample ID: 583147	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 583499	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.97E-01	2.19E-01	2.20E-01
Sample ID: 583499	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
Sample ID: 584228	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.26E-01	2.47E-01	2.28E-01
Sample ID: 584228	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
Sample ID: 584924	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	4.13E-01	2.03E-01	6.58E-02
Sample ID: 584924	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 585359	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	<4.24E-01	0.00E+00	4.24E-01
Sample ID: 585359	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID:	585359	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	2.78E-01	1.81E-01	1.93E-01
Sample ID:	585566	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.50E-02	0.00E+00	2.50E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<2.59E-02	0.00E+00	2.59E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	<3.09E-01	0.00E+00	3.09E-01
Sample ID:	585820	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.91E-02	0.00E+00	2.91E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<1.18E-02	0.00E+00	1.18E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	3.56E-01	2.47E-01	3.29E-01
Sample ID:	586071	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.16E-02	0.00E+00	3.16E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<2.14E-02	0.00E+00	2.14E-02
				Be-7	<1.66E-01	0.00E+00	1.66E-01
				K-40	5.44E-01	2.57E-01	2.42E-01
Sample ID:	586670	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.02E-02	0.00E+00	3.02E-02
				Cs-134	<3.02E-02	0.00E+00	3.02E-02
				Cs-137	<2.60E-02	0.00E+00	2.60E-02
				Be-7	<1.37E-01	0.00E+00	1.37E-01
				K-40	<3.38E-01	0.00E+00	3.38E-01
Sample ID:	586938	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<2.97E-02	0.00E+00	2.97E-02
				Cs-137	<1.94E-02	0.00E+00	1.94E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	4.90E-01	2.23E-01	6.64E-02
Sample ID:	587198	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.11E-02	0.00E+00	4.11E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<2.38E-01	0.00E+00	2.38E-01
				K-40	7.98E-01	3.27E-01	2.94E-01
Sample ID:	587428	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.20E-02	0.00E+00	2.20E-02
				Cs-134	<3.02E-02	0.00E+00	3.02E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	5.80E-01	2.77E-01	2.96E-01
Sample ID:	587775	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.72E-02	0.00E+00	3.72E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<2.49E-01	0.00E+00	2.49E-01
				K-40	6.27E-01	3.58E-01	4.73E-01
Sample ID:	588309	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.69E-02	0.00E+00	2.69E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	3.34E-01	2.08E-01	2.37E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID: 588596	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<4.18E-01	0.00E+00	4.18E-01
Sample ID: 589542	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<2.43E-01	0.00E+00	2.43E-01
		K-40	5.85E-01	3.19E-01	3.89E-01
Sample ID: 589794	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<4.38E-03	0.00E+00	4.38E-03
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	<5.13E-01	0.00E+00	5.13E-01
Sample ID: 590022	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	1.96E-01	2.10E-01	3.25E-01
Sample ID: 590357	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.84E-01	0.00E+00	5.84E-01
Sample ID: 590484	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	<4.37E-01	0.00E+00	4.37E-01
Sample ID: 590647	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	5.40E-01	3.04E-01	3.84E-01
Sample ID: 591205	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	7.54E-01	2.73E-01	6.39E-02
Sample ID: 591441	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	5.35E-01	2.75E-01	3.16E-01
Sample ID: 591619	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID: 591619	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	5.04E-01	2.29E-01	6.83E-02
Sample ID: 591819	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<2.54E-01	0.00E+00	2.54E-01
Sample ID: 592192	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 592411	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
Sample ID: 593000	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 593178	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 593560	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
Sample ID: 593812	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 594278	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
Sample ID: 594799	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.45E-02	0.00E+00	3.45E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	7.07E-01	2.96E-01	2.71E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID: 594993	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<5.00E-01	0.00E+00	5.00E-01
Sample ID: 595637	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	4.27E-01	2.21E-01	2.01E-01
Sample ID: 596389	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	5.18E-01	2.25E-01	6.38E-02
Sample ID: 596788	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	3.94E-01	2.82E-01	3.96E-01
Sample ID: 597276	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	<5.56E-01	0.00E+00	5.56E-01
Sample ID: 597872	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	<6.01E-01	0.00E+00	6.01E-01
Sample ID: 598207	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	3.51E-01	1.83E-01	6.34E-02
Sample ID: 598869	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	<5.00E-01	0.00E+00	5.00E-01
Sample ID: 599067	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<2.65E-01	0.00E+00	2.65E-01
		K-40	6.29E-01	2.73E-01	7.75E-02
Sample ID: 599463	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 204 [CONTROL - N @ 22.6 miles]

Sample ID: 599463	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<4.88E-01	0.00E+00	4.88E-01
Sample ID: 600302	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.26E-02	0.00E+00	4.26E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
Sample ID: 601126	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 601287	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.78E-02	0.00E+00	2.78E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
Sample ID: 601782	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 602255	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.43E-02	0.00E+00	4.43E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
Sample ID: 602510	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.59E-02	0.00E+00	4.59E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 602716	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.13E-02	0.00E+00	4.13E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
Sample ID: 582656	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
Sample ID: 582957	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID: 582656	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
Sample ID: 582957	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID:	582957	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<5.15E-01	0.00E+00	5.15E-01
Sample ID:	583148	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.00E-02	0.00E+00	3.00E-02
				Cs-134	<2.18E-02	0.00E+00	2.18E-02
				Cs-137	<2.76E-02	0.00E+00	2.76E-02
				Be-7	<1.82E-01	0.00E+00	1.82E-01
				K-40	<3.89E-01	0.00E+00	3.89E-01
Sample ID:	583500	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<1.22E-02	0.00E+00	1.22E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	<5.33E-01	0.00E+00	5.33E-01
Sample ID:	584229	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.64E-02	0.00E+00	2.64E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	<3.88E-01	0.00E+00	3.88E-01
Sample ID:	584925	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<2.39E-02	0.00E+00	2.39E-02
				Cs-137	<1.46E-02	0.00E+00	1.46E-02
				Be-7	<1.75E-01	0.00E+00	1.75E-01
				K-40	<4.30E-01	0.00E+00	4.30E-01
Sample ID:	585360	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<1.22E-02	0.00E+00	1.22E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	<5.01E-01	0.00E+00	5.01E-01
Sample ID:	585567	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<2.08E-02	0.00E+00	2.08E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	4.86E-01	2.58E-01	2.78E-01
Sample ID:	585821	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<2.52E-02	0.00E+00	2.52E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	<4.81E-01	0.00E+00	4.81E-01
Sample ID:	586072	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.35E-02	0.00E+00	3.35E-02
				Cs-134	<3.83E-02	0.00E+00	3.83E-02
				Cs-137	<3.03E-02	0.00E+00	3.03E-02
				Be-7	<2.33E-01	0.00E+00	2.33E-01
				K-40	<6.74E-01	0.00E+00	6.74E-01
Sample ID:	586671	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.44E-02	0.00E+00	3.44E-02
				Cs-134	<2.14E-02	0.00E+00	2.14E-02
				Cs-137	<2.56E-02	0.00E+00	2.56E-02
				Be-7	<1.68E-01	0.00E+00	1.68E-01
				K-40	5.27E-01	2.39E-01	7.14E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID: 586939	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<3.39E-02	0.00E+00	3.39E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	<5.25E-01	0.00E+00	5.25E-01
Sample ID: 587199	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	7.34E-01	3.07E-01	2.95E-01
Sample ID: 587429	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	<5.70E-01	0.00E+00	5.70E-01
Sample ID: 587776	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.42E-01	2.55E-01	2.35E-01
Sample ID: 588310	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.50E-01	0.00E+00	5.50E-01
Sample ID: 588597	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	4.52E-01	2.86E-01	3.70E-01
Sample ID: 589543	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	4.47E-01	2.54E-01	3.00E-01
Sample ID: 589795	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	8.51E-01	3.00E-01	6.78E-02
Sample ID: 590023	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<4.52E-01	0.00E+00	4.52E-01
Sample ID: 590358	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID: 590358	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	6.17E-01	2.47E-01	6.43E-02
Sample ID: 590485	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 590648	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
Sample ID: 591206	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 591442	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
Sample ID: 591620	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 591820	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
Sample ID: 592193	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
Sample ID: 592412	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 593001	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.76E-01	2.76E-01	3.48E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID: 593179	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	5.39E-01	2.45E-01	2.01E-01
Sample ID: 593561	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	3.81E-01	2.45E-01	3.11E-01
Sample ID: 593813	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	<5.27E-01	0.00E+00	5.27E-01
Sample ID: 594279	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	7.62E-01	2.76E-01	6.45E-02
Sample ID: 594800	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	<5.77E-01	0.00E+00	5.77E-01
Sample ID: 594994	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	7.60E-01	2.99E-01	2.34E-01
Sample ID: 595638	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	6.53E-01	3.25E-01	3.90E-01
Sample ID: 596390	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<5.30E-01	0.00E+00	5.30E-01
Sample ID: 596789	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	<5.18E-01	0.00E+00	5.18E-01
Sample ID: 597277	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID: 597277	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	<4.67E-01	0.00E+00	4.67E-01
Sample ID: 597873	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 598208	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
Sample ID: 598870	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
Sample ID: 599068	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.28E-02	0.00E+00	3.28E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 599464	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
Sample ID: 600303	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.55E-02	0.00E+00	4.55E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 601127	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
Sample ID: 601288	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 601783	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	5.60E-01	3.05E-01	3.67E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 205 [INDICATOR - SSE @ 0.55 miles]

Sample ID:	602256	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.23E-02	0.00E+00	4.23E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<2.47E-01	0.00E+00	2.47E-01
				K-40	<6.76E-01	0.00E+00	6.76E-01

Sample ID:	602511	Sample Dates:	12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.39E-02	0.00E+00	4.39E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<2.28E-02	0.00E+00	2.28E-02
				Be-7	<1.84E-01	0.00E+00	1.84E-01
				K-40	7.18E-01	2.68E-01	6.48E-02

Sample ID:	602717	Sample Dates:	12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<6.11E-02	0.00E+00	6.11E-02
				Cs-134	<2.92E-02	0.00E+00	2.92E-02
				Cs-137	<2.50E-02	0.00E+00	2.50E-02
				Be-7	<3.10E-01	0.00E+00	3.10E-01
				K-40	9.38E-01	4.38E-01	4.75E-01

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	582657	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.04E-02	0.00E+00	3.04E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<1.98E-02	0.00E+00	1.98E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	<4.99E-01	0.00E+00	4.99E-01

Sample ID:	582958	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.42E-02	0.00E+00	1.42E-02
				Cs-134	<2.85E-02	0.00E+00	2.85E-02
				Cs-137	<2.58E-02	0.00E+00	2.58E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	3.81E-01	2.16E-01	2.30E-01

Sample ID:	583149	Sample Dates:	1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.47E-02	0.00E+00	2.47E-02
				Cs-134	<3.22E-02	0.00E+00	3.22E-02
				Cs-137	<2.00E-02	0.00E+00	2.00E-02
				Be-7	<1.57E-01	0.00E+00	1.57E-01
				K-40	3.64E-01	2.68E-01	3.74E-01

Sample ID:	583501	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.83E-02	0.00E+00	2.83E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	6.66E-01	2.96E-01	3.02E-01

Sample ID:	584230	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.02E-02	0.00E+00	3.02E-02
				Cs-134	<2.83E-02	0.00E+00	2.83E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	6.94E-01	2.84E-01	2.30E-01

Sample ID:	584926	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.16E-02	0.00E+00	3.16E-02
				Cs-134	<2.06E-02	0.00E+00	2.06E-02
				Cs-137	<1.98E-02	0.00E+00	1.98E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	<5.15E-01	0.00E+00	5.15E-01

Sample ID:	585361	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.35E-02	0.00E+00	3.35E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID: 585361	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<6.02E-01	0.00E+00	6.02E-01
Sample ID: 585568	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.34E-02	0.00E+00	4.34E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
Sample ID: 585822	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 586073	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.91E-01	0.00E+00	1.91E-01
Sample ID: 586672	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 586940	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 587200	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
Sample ID: 587430	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 587777	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 588311	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	588311	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	4.65E-01	2.38E-01	2.34E-01
Sample ID:	588598	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.07E-02	0.00E+00	3.07E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	<6.33E-01	0.00E+00	6.33E-01
Sample ID:	589544	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.82E-01	0.00E+00	1.82E-01
				K-40	<4.10E-01	0.00E+00	4.10E-01
Sample ID:	589796	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.23E-02	0.00E+00	4.23E-02
				Cs-134	<2.42E-02	0.00E+00	2.42E-02
				Cs-137	<3.25E-02	0.00E+00	3.25E-02
				Be-7	<2.50E-01	0.00E+00	2.50E-01
				K-40	6.02E-01	2.77E-01	2.38E-01
Sample ID:	590024	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<2.34E-02	0.00E+00	2.34E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<8.24E-02	0.00E+00	8.24E-02
				K-40	1.50E-01	1.59E-01	2.33E-01
Sample ID:	590359	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	4.48E-01	2.54E-01	2.92E-01
Sample ID:	590486	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.77E-02	0.00E+00	2.77E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	6.61E-01	2.77E-01	2.29E-01
Sample ID:	590649	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.33E-02	0.00E+00	2.33E-02
				Cs-134	<2.54E-02	0.00E+00	2.54E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	<5.90E-01	0.00E+00	5.90E-01
Sample ID:	591207	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.58E-02	0.00E+00	2.58E-02
				Cs-134	<2.21E-02	0.00E+00	2.21E-02
				Cs-137	<2.08E-02	0.00E+00	2.08E-02
				Be-7	<1.67E-01	0.00E+00	1.67E-01
				K-40	4.94E-01	3.02E-01	4.07E-01
Sample ID:	591443	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.60E-02	0.00E+00	3.60E-02
				Cs-134	<2.90E-02	0.00E+00	2.90E-02
				Cs-137	<2.31E-02	0.00E+00	2.31E-02
				Be-7	<2.11E-01	0.00E+00	2.11E-01
				K-40	<6.95E-01	0.00E+00	6.95E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID: 591621	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.53E-02	0.00E+00	4.53E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	6.58E-01	2.68E-01	7.13E-02
Sample ID: 591821	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<3.04E-02	0.00E+00	3.04E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	3.70E-01	3.06E-01	4.53E-01
Sample ID: 592194	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	4.86E-01	2.45E-01	2.34E-01
Sample ID: 592413	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<2.76E-02	0.00E+00	2.76E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<6.19E-01	0.00E+00	6.19E-01
Sample ID: 593002	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	4.52E-01	2.16E-01	6.80E-02
Sample ID: 593180	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	4.15E-01	2.73E-01	3.65E-01
Sample ID: 593562	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	8.50E-01	3.38E-01	3.30E-01
Sample ID: 593814	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	<6.68E-01	0.00E+00	6.68E-01
Sample ID: 594280	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	<5.29E-01	0.00E+00	5.29E-01
Sample ID: 594801	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID: 594801	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	3.79E-01	2.46E-01	3.15E-01
Sample ID: 594995	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 595639	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
Sample ID: 596391	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 596790	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
Sample ID: 597278	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
Sample ID: 597874	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
Sample ID: 598209	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 598871	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 599069	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	<4.74E-01	0.00E+00	4.74E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID: 599465	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	<5.41E-01	0.00E+00	5.41E-01
Sample ID: 600304	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<4.60E-01	0.00E+00	4.60E-01
Sample ID: 601128	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	2.98E-01	1.81E-01	7.35E-02
Sample ID: 601289	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<5.48E-01	0.00E+00	5.48E-01
Sample ID: 601784	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	<5.17E-01	0.00E+00	5.17E-01
Sample ID: 602257	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.16E-02	0.00E+00	4.16E-02
		Cs-134	<3.26E-02	0.00E+00	3.26E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	<7.27E-01	0.00E+00	7.27E-01
Sample ID: 602512	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.18E-02	0.00E+00	4.18E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	<6.61E-01	0.00E+00	6.61E-01
Sample ID: 602718	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.26E-02	0.00E+00	5.26E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	4.79E-01	2.93E-01	3.60E-01

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 582658	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<4.52E-01	0.00E+00	4.52E-01
Sample ID: 582959	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 582959	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<4.46E-03	0.00E+00	4.46E-03
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<4.51E-01	0.00E+00	4.51E-01
Sample ID: 583150	Sample Dates: 1/17/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.03E-02	0.00E+00	5.03E-02
		Cs-134	<3.29E-02	0.00E+00	3.29E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<3.55E-01	0.00E+00	3.55E-01
Sample ID: 583502	Sample Dates: 1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
Sample ID: 584231	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.67E-02	0.00E+00	3.67E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
Sample ID: 584927	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<3.04E-02	0.00E+00	3.04E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
Sample ID: 585362	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
Sample ID: 585569	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 585823	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
Sample ID: 586074	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.65E-02	0.00E+00	4.65E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
Sample ID: 586673	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 586673	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.30E-01	1.78E-01	6.39E-02
Sample ID: 586941	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	3.76E-01	2.30E-01	2.75E-01
Sample ID: 587201	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	2.77E-01	2.08E-01	2.73E-01
Sample ID: 587431	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<4.54E-01	0.00E+00	4.54E-01
Sample ID: 587778	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	6.62E-01	3.08E-01	3.13E-01
Sample ID: 588312	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.71E-02	0.00E+00	1.71E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	<2.66E-01	0.00E+00	2.66E-01
Sample ID: 588599	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	5.06E-01	2.14E-01	2.52E-01
Sample ID: 589545	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	<4.47E-01	0.00E+00	4.47E-01
Sample ID: 589797	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	<5.36E-01	0.00E+00	5.36E-01
Sample ID: 590025	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	5.13E-01	2.33E-01	6.95E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 590360	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	<6.08E-01	0.00E+00	6.08E-01
Sample ID: 590487	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	7.46E-01	2.70E-01	6.32E-02
Sample ID: 590650	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<5.56E-01	0.00E+00	5.56E-01
Sample ID: 591208	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	3.24E-01	1.99E-01	1.99E-01
Sample ID: 591444	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	7.05E-01	2.68E-01	6.59E-02
Sample ID: 591622	Sample Dates: 6/27/2023 - 7/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<5.06E-01	0.00E+00	5.06E-01
Sample ID: 591822	Sample Dates: 7/4/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.62E-01	2.80E-01	3.07E-01
Sample ID: 592195	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	8.50E-01	3.03E-01	6.98E-02
Sample ID: 592414	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	5.64E-01	2.45E-01	6.95E-02
Sample ID: 593003	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 593003	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	4.88E-01	2.27E-01	6.97E-02
Sample ID: 593181	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 593563	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 593815	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 594281	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 594802	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
Sample ID: 594996	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 595640	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
Sample ID: 596392	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 596791	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
Sample ID: 596791	Sample Dates: 9/26/2023 - 10/3/2023	K-40	<4.93E-01	0.00E+00	4.93E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID: 597279	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<5.99E-01	0.00E+00	5.99E-01
Sample ID: 597875	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	5.29E-01	2.93E-01	3.59E-01
Sample ID: 598210	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	<4.65E-01	0.00E+00	4.65E-01
Sample ID: 598872	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	3.75E-01	2.22E-01	2.53E-01
Sample ID: 599070	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	<4.74E-01	0.00E+00	4.74E-01
Sample ID: 599466	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID: 600305	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<5.25E-01	0.00E+00	5.25E-01
Sample ID: 601129	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	<7.77E-01	0.00E+00	7.77E-01
Sample ID: 601290	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	5.07E-01	2.52E-01	2.44E-01
Sample ID: 601785	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 207 [INDICATOR - NNE @ 0.65 miles]

Sample ID:	601785	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	<1.90E-01	0.00E+00	1.90E-01
			K-40	6.53E-01	3.04E-01	3.22E-01
Sample ID:	602258	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<3.91E-02	0.00E+00	3.91E-02
			Cs-134	<2.60E-02	0.00E+00	2.60E-02
			Cs-137	<2.78E-02	0.00E+00	2.78E-02
			Be-7	<2.66E-01	0.00E+00	2.66E-01
			K-40	7.15E-01	3.19E-01	2.94E-01
Sample ID:	602513	Sample Dates: 12/19/2023 - 12/26/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<4.30E-02	0.00E+00	4.30E-02
			Cs-134	<2.52E-02	0.00E+00	2.52E-02
			Cs-137	<2.16E-02	0.00E+00	2.16E-02
			Be-7	<1.56E-01	0.00E+00	1.56E-01
			K-40	7.28E-01	2.92E-01	2.29E-01
Sample ID:	602719	Sample Dates: 12/26/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<5.10E-02	0.00E+00	5.10E-02
			Cs-134	<3.46E-02	0.00E+00	3.46E-02
			Cs-137	<2.96E-02	0.00E+00	2.96E-02
			Be-7	<2.16E-01	0.00E+00	2.16E-01
			K-40	6.29E-01	2.73E-01	7.75E-02

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 700 [INDICATOR - SSW @ 5.09 miles]

Sample ID: 589798	Sample Dates: 5/24/2023 - 5/24/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.09E+01	0.00E+00	6.09E+01
			Co-58	<7.53E+01	0.00E+00	7.53E+01
			Fe-59	<1.38E+02	0.00E+00	1.38E+02
			Co-60	<1.17E+02	0.00E+00	1.17E+02
			Zn-65	<1.00E+02	0.00E+00	1.00E+02
			Nb-95	<7.43E+01	0.00E+00	7.43E+01
			I-131	<9.38E+01	0.00E+00	9.38E+01
			Cs-134	<6.79E+01	0.00E+00	6.79E+01
			Cs-137	<3.89E+01	0.00E+00	3.89E+01
			Be-7	<6.08E+02	0.00E+00	6.08E+02
			K-40	4.02E+03	1.08E+03	6.73E+02
			Ag-110M	<6.03E+01	0.00E+00	6.03E+01
			Sb-122	<6.12E+02	0.00E+00	6.12E+02
			Sb-125	<1.68E+02	0.00E+00	1.68E+02
Sample ID: 599972	Sample Dates: 11/15/2023 - 11/15/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.58E+01	0.00E+00	4.58E+01
			Co-58	<5.32E+01	0.00E+00	5.32E+01
			Fe-59	<1.65E+02	0.00E+00	1.65E+02
			Co-60	<3.66E+01	0.00E+00	3.66E+01
			Zn-65	<1.09E+02	0.00E+00	1.09E+02
			Nb-95	<6.97E+01	0.00E+00	6.97E+01
			I-131	<2.55E+02	0.00E+00	2.55E+02
			Cs-134	<6.74E+01	0.00E+00	6.74E+01
			Cs-137	<6.52E+01	0.00E+00	6.52E+01
			Be-7	<5.84E+02	0.00E+00	5.84E+02
			K-40	4.40E+03	9.49E+02	5.85E+02
			Ag-110M	<3.07E+01	0.00E+00	3.07E+01
			Sb-122	<1.31E+04	0.00E+00	1.31E+04
			Sb-125	<1.20E+02	0.00E+00	1.20E+02

Sample Point 701 [INDICATOR - SSW @ 5.09 miles]

Sample ID: 589799	Sample Dates: 5/24/2023 - 5/24/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<9.78E+01	0.00E+00	9.78E+01
			Co-58	<8.02E+01	0.00E+00	8.02E+01
			Fe-59	<1.40E+02	0.00E+00	1.40E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 701 [INDICATOR - SSW @ 5.09 miles]

Sample ID:	589799	Sample Dates:	5/24/2023 - 5/24/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Co-60	<7.46E+01	0.00E+00	7.46E+01
					Zn-65	<1.33E+02	0.00E+00	1.33E+02
					Nb-95	<9.93E+01	0.00E+00	9.93E+01
					I-131	<1.16E+02	0.00E+00	1.16E+02
					Cs-134	<9.69E+01	0.00E+00	9.69E+01
					Cs-137	<5.18E+01	0.00E+00	5.18E+01
					Be-7	<5.91E+02	0.00E+00	5.91E+02
					K-40	3.91E+03	9.97E+02	1.54E+02
					Ag-110M	<4.70E+01	0.00E+00	4.70E+01
					Sb-122	<5.84E+02	0.00E+00	5.84E+02
					Sb-125	<1.40E+02	0.00E+00	1.40E+02

Sample ID:	599973	Sample Dates:	11/15/2023 - 11/15/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.20E+01	0.00E+00	5.20E+01
					Co-58	<6.92E+01	0.00E+00	6.92E+01
					Fe-59	<1.60E+02	0.00E+00	1.60E+02
					Co-60	<6.69E+01	0.00E+00	6.69E+01
					Zn-65	<1.38E+02	0.00E+00	1.38E+02
					Nb-95	<7.58E+01	0.00E+00	7.58E+01
					I-131	<3.41E+02	0.00E+00	3.41E+02
					Cs-134	<5.70E+01	0.00E+00	5.70E+01
					Cs-137	<5.80E+01	0.00E+00	5.80E+01
					Be-7	<5.30E+02	0.00E+00	5.30E+02
					K-40	4.36E+03	9.99E+02	6.59E+02
					Ag-110M	<4.36E+01	0.00E+00	4.36E+01
					Sb-122	<1.40E+04	0.00E+00	1.40E+04
					Sb-125	<1.39E+02	0.00E+00	1.39E+02

Sample Point 702 [INDICATOR - SSW @ 5.09 miles]

Sample ID:	589800	Sample Dates:	5/24/2023 - 5/24/2023	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.82E+01	0.00E+00	5.82E+01
					Co-58	<6.09E+01	0.00E+00	6.09E+01
					Fe-59	<1.53E+02	0.00E+00	1.53E+02
					Co-60	<7.69E+01	0.00E+00	7.69E+01
					Zn-65	<1.04E+02	0.00E+00	1.04E+02
					Nb-95	<6.32E+01	0.00E+00	6.32E+01
					I-131	<8.43E+01	0.00E+00	8.43E+01
					Cs-134	<6.79E+01	0.00E+00	6.79E+01
					Cs-137	<5.08E+01	0.00E+00	5.08E+01
					Be-7	<4.37E+02	0.00E+00	4.37E+02
					K-40	4.60E+03	1.05E+03	6.14E+02
					Ag-110M	<5.78E+01	0.00E+00	5.78E+01
					Sb-122	<6.12E+02	0.00E+00	6.12E+02
					Sb-125	<1.55E+02	0.00E+00	1.55E+02

Sample ID:	599974	Sample Dates:	11/15/2023 - 11/15/2023	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.67E+01	0.00E+00	4.67E+01
					Co-58	<6.30E+01	0.00E+00	6.30E+01
					Fe-59	<1.19E+02	0.00E+00	1.19E+02
					Co-60	<7.30E+01	0.00E+00	7.30E+01
					Zn-65	<9.35E+01	0.00E+00	9.35E+01
					Nb-95	<7.52E+01	0.00E+00	7.52E+01
					I-131	<3.39E+02	0.00E+00	3.39E+02
					Cs-134	<5.41E+01	0.00E+00	5.41E+01
					Cs-137	<6.26E+01	0.00E+00	6.26E+01
					Be-7	<5.07E+02	0.00E+00	5.07E+02
					K-40	4.77E+03	1.04E+03	7.19E+02
					Ag-110M	<5.01E+01	0.00E+00	5.01E+01
					Sb-122	<1.84E+04	0.00E+00	1.84E+04
					Sb-125	<1.29E+02	0.00E+00	1.29E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 703 [CONTROL - WSW @ 0 miles]

Sample ID:	589801	Sample Dates:	5/24/2023 - 5/24/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.63E+01	0.00E+00	7.63E+01
					Co-58	<7.98E+01	0.00E+00	7.98E+01
					Fe-59	<1.70E+02	0.00E+00	1.70E+02
					Co-60	<8.82E+01	0.00E+00	8.82E+01
					Zn-65	<1.83E+02	0.00E+00	1.83E+02
					Nb-95	<9.17E+01	0.00E+00	9.17E+01
					I-131	<1.44E+02	0.00E+00	1.44E+02
					Cs-134	<8.85E+01	0.00E+00	8.85E+01
					Cs-137	<6.48E+01	0.00E+00	6.48E+01
					Be-7	<4.64E+02	0.00E+00	4.64E+02
					K-40	5.26E+03	1.38E+03	1.32E+03
					Ag-110M	<5.56E+01	0.00E+00	5.56E+01
					Sb-122	<6.48E+02	0.00E+00	6.48E+02
					Sb-125	<1.74E+02	0.00E+00	1.74E+02

Sample ID:	599975	Sample Dates:	11/15/2023 - 11/15/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.63E+01	0.00E+00	6.63E+01
					Co-58	<6.13E+01	0.00E+00	6.13E+01
					Fe-59	<1.25E+02	0.00E+00	1.25E+02
					Co-60	<4.95E+01	0.00E+00	4.95E+01
					Zn-65	<1.33E+02	0.00E+00	1.33E+02
					Nb-95	<6.99E+01	0.00E+00	6.99E+01
					I-131	<2.73E+02	0.00E+00	2.73E+02
					Cs-134	<5.78E+01	0.00E+00	5.78E+01
					Cs-137	<5.91E+01	0.00E+00	5.91E+01
					Be-7	<5.08E+02	0.00E+00	5.08E+02
					K-40	4.96E+03	1.01E+03	5.17E+02
					Ag-110M	<5.05E+01	0.00E+00	5.05E+01
					Sb-122	<1.54E+04	0.00E+00	1.54E+04
					Sb-125	<1.26E+02	0.00E+00	1.26E+02

Sample Point 704 [CONTROL - WSW @ 0 miles]

Sample ID:	589802	Sample Dates:	5/24/2023 - 5/24/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.01E+01	0.00E+00	8.01E+01
					Co-58	<4.79E+01	0.00E+00	4.79E+01
					Fe-59	<1.24E+02	0.00E+00	1.24E+02
					Co-60	<7.84E+01	0.00E+00	7.84E+01
					Zn-65	<1.60E+02	0.00E+00	1.60E+02
					Nb-95	<7.68E+01	0.00E+00	7.68E+01
					I-131	<1.35E+02	0.00E+00	1.35E+02
					Cs-134	<7.91E+01	0.00E+00	7.91E+01
					Cs-137	<7.77E+01	0.00E+00	7.77E+01
					Be-7	<5.58E+02	0.00E+00	5.58E+02
					K-40	5.71E+03	1.30E+03	6.79E+02
					Ag-110M	<6.78E+01	0.00E+00	6.78E+01
					Sb-122	<6.39E+02	0.00E+00	6.39E+02
					Sb-125	<2.11E+02	0.00E+00	2.11E+02

Sample ID:	599976	Sample Dates:	11/15/2023 - 11/15/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.35E+01	0.00E+00	6.35E+01
					Co-58	<4.94E+01	0.00E+00	4.94E+01
					Fe-59	<1.09E+02	0.00E+00	1.09E+02
					Co-60	<5.80E+01	0.00E+00	5.80E+01
					Zn-65	<9.37E+01	0.00E+00	9.37E+01
					Nb-95	<5.14E+01	0.00E+00	5.14E+01
					I-131	<2.98E+02	0.00E+00	2.98E+02
					Cs-134	<4.38E+01	0.00E+00	4.38E+01
					Cs-137	<4.00E+01	0.00E+00	4.00E+01
					Be-7	<5.27E+02	0.00E+00	5.27E+02
					K-40	3.84E+03	9.23E+02	7.69E+02
					Ag-110M	<3.01E+01	0.00E+00	3.01E+01
					Sb-122	<1.27E+04	0.00E+00	1.27E+04
					Sb-125	<1.03E+02	0.00E+00	1.03E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 705 [CONTROL - WSW @ 0 miles]

Sample ID:	589803	Sample Dates:	5/24/2023 - 5/24/2023	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.47E+01	0.00E+00	5.47E+01
					Co-58	<6.00E+01	0.00E+00	6.00E+01
					Fe-59	<1.18E+02	0.00E+00	1.18E+02
					Co-60	<5.80E+01	0.00E+00	5.80E+01
					Zn-65	<1.29E+02	0.00E+00	1.29E+02
					Nb-95	<5.27E+01	0.00E+00	5.27E+01
					I-131	<9.50E+01	0.00E+00	9.50E+01
					Cs-134	<7.50E+01	0.00E+00	7.50E+01
					Cs-137	<6.09E+01	0.00E+00	6.09E+01
					Be-7	<3.86E+02	0.00E+00	3.86E+02
					K-40	3.51E+03	1.02E+03	1.01E+03
					Ag-110M	<5.07E+01	0.00E+00	5.07E+01
					Sb-122	<5.35E+02	0.00E+00	5.35E+02
					Sb-125	<1.54E+02	0.00E+00	1.54E+02

Sample ID:	599977	Sample Dates:	11/15/2023 - 11/15/2023	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.95E+01	0.00E+00	4.95E+01
					Co-58	<5.75E+01	0.00E+00	5.75E+01
					Fe-59	<1.09E+02	0.00E+00	1.09E+02
					Co-60	<6.12E+01	0.00E+00	6.12E+01
					Zn-65	<1.01E+02	0.00E+00	1.01E+02
					Nb-95	<7.41E+01	0.00E+00	7.41E+01
					I-131	<2.61E+02	0.00E+00	2.61E+02
					Cs-134	<3.74E+01	0.00E+00	3.74E+01
					Cs-137	<4.65E+01	0.00E+00	4.65E+01
					Be-7	<3.22E+02	0.00E+00	3.22E+02
					K-40	4.34E+03	9.54E+02	6.90E+02
					Ag-110M	<4.90E+01	0.00E+00	4.90E+01
					Sb-122	<1.27E+04	0.00E+00	1.27E+04
					Sb-125	<1.38E+02	0.00E+00	1.38E+02

Sample Point 706 [INDICATOR - -- @ 0 miles]

Sample ID:	589804	Sample Dates:	5/24/2023 - 5/24/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.58E+01	0.00E+00	7.58E+01
					Co-58	<6.04E+01	0.00E+00	6.04E+01
					Fe-59	<1.41E+02	0.00E+00	1.41E+02
					Co-60	<5.23E+01	0.00E+00	5.23E+01
					Zn-65	<8.06E+01	0.00E+00	8.06E+01
					Nb-95	<6.81E+01	0.00E+00	6.81E+01
					I-131	<1.43E+02	0.00E+00	1.43E+02
					Cs-134	<7.01E+01	0.00E+00	7.01E+01
					Cs-137	<6.54E+01	0.00E+00	6.54E+01
					Be-7	<4.21E+02	0.00E+00	4.21E+02
					K-40	4.52E+03	1.08E+03	7.63E+02
					Ag-110M	<6.12E+01	0.00E+00	6.12E+01
					Sb-122	<6.15E+02	0.00E+00	6.15E+02
					Sb-125	<1.71E+02	0.00E+00	1.71E+02

Sample Point 707 [INDICATOR - -- @ 0 miles]

Sample ID:	589805	Sample Dates:	5/24/2023 - 5/24/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.17E+01	0.00E+00	6.17E+01
					Co-58	<5.93E+01	0.00E+00	5.93E+01
					Fe-59	<1.16E+02	0.00E+00	1.16E+02
					Co-60	<5.10E+01	0.00E+00	5.10E+01
					Zn-65	<1.11E+02	0.00E+00	1.11E+02
					Nb-95	<6.15E+01	0.00E+00	6.15E+01
					I-131	<9.61E+01	0.00E+00	9.61E+01
					Cs-134	<7.39E+01	0.00E+00	7.39E+01
					Cs-137	<5.24E+01	0.00E+00	5.24E+01
					Be-7	<4.77E+02	0.00E+00	4.77E+02
					K-40	3.75E+03	9.39E+02	5.98E+02
					Ag-110M	<6.02E+01	0.00E+00	6.02E+01
					Sb-122	<5.87E+02	0.00E+00	5.87E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 707 [INDICATOR - -- @ 0 miles]

Sample ID:	589805	Sample Dates:	5/24/2023 - 5/24/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Sb-125	<1.36E+02	0.00E+00	1.36E+02

Sample Point 708 [INDICATOR - -- @ 0 miles]

Sample ID:	589806	Sample Dates:	5/24/2023 - 5/24/2023	INVERTEBREA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.40E+01	0.00E+00	5.40E+01
					Co-58	<5.65E+01	0.00E+00	5.65E+01
					Fe-59	<9.91E+01	0.00E+00	9.91E+01
					Co-60	<4.39E+01	0.00E+00	4.39E+01
					Zn-65	<7.87E+01	0.00E+00	7.87E+01
					Nb-95	<6.44E+01	0.00E+00	6.44E+01
					I-131	<8.30E+01	0.00E+00	8.30E+01
					Cs-134	<7.15E+01	0.00E+00	7.15E+01
					Cs-137	<6.64E+01	0.00E+00	6.64E+01
					Be-7	<4.28E+02	0.00E+00	4.28E+02
					K-40	4.73E+03	1.05E+03	5.71E+02
					Ag-110M	<5.63E+01	0.00E+00	5.63E+01
					Sb-122	<4.85E+02	0.00E+00	4.85E+02
					Sb-125	<1.21E+02	0.00E+00	1.21E+02

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 404 [INDICATOR - SW @ 0.16 miles]

Sample ID:	585328	Sample Dates:	3/3/2023 - 3/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.22E+00	0.00E+00	5.22E+00
				Co-58	<6.53E+00	0.00E+00	6.53E+00
				Fe-59	<1.42E+01	0.00E+00	1.42E+01
				Co-60	<6.83E+00	0.00E+00	6.83E+00
				Zn-65	<1.36E+01	0.00E+00	1.36E+01
				Zr-95	<8.04E+00	0.00E+00	8.04E+00
				Nb-95	<5.03E+00	0.00E+00	5.03E+00
				I-131	<6.85E+00	0.00E+00	6.85E+00
				Cs-134	<6.49E+00	0.00E+00	6.49E+00
				Cs-137	<5.64E+00	0.00E+00	5.64E+00
				BaLa-140	<4.44E+00	0.00E+00	4.44E+00
				Total-Gam	0.00E+00		
				H3GW	<-1.4E+02	0.00E+00	2.14E+02

Sample ID:	590128	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<2.68E+01	0.00E+00	2.02E+02

Sample Point 407 [INDICATOR - ENE @ 0.06 miles]

Sample ID:	585329	Sample Dates:	3/3/2023 - 3/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.23E+00	0.00E+00	4.23E+00
				Co-58	<5.06E+00	0.00E+00	5.06E+00
				Fe-59	<1.04E+01	0.00E+00	1.04E+01
				Co-60	<5.97E+00	0.00E+00	5.97E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<1.27E+01	0.00E+00	1.27E+01
				Nb-95	<6.43E+00	0.00E+00	6.43E+00
				I-131	<7.46E+00	0.00E+00	7.46E+00
				Cs-134	<5.60E+00	0.00E+00	5.60E+00
				Cs-137	<6.87E+00	0.00E+00	6.87E+00
				BaLa-140	<4.62E+00	0.00E+00	4.62E+00
				Total-Gam	0.00E+00		
				H3GW	2.71E+02	1.33E+02	2.14E+02

Sample ID:	590129	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	3.43E+02	1.30E+02	2.03E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 409 [INDICATOR - -- @ 0.65 miles]

Sample ID: 585331	Sample Dates: 3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.56E+00	0.00E+00	5.56E+00
		Co-58	<5.66E+00	0.00E+00	5.66E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<6.40E+00	0.00E+00	6.40E+00
		Zn-65	<1.19E+01	0.00E+00	1.19E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<6.19E+00	0.00E+00	6.19E+00
		I-131	<7.46E+00	0.00E+00	7.46E+00
		Cs-134	<6.23E+00	0.00E+00	6.23E+00
		Cs-137	<3.91E+00	0.00E+00	3.91E+00
		BaLa-140	<8.08E+00	0.00E+00	8.08E+00
		Total-Gam	0.00E+00		
		H3GW	<-7.0E+01	0.00E+00	2.13E+02
Sample ID: 590131	Sample Dates: 6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-1.6E+01	0.00E+00	2.04E+02
Sample ID: 593975	Sample Dates: 9/7/2023 - 9/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.84E+00	0.00E+00	7.84E+00
		Co-58	<5.41E+00	0.00E+00	5.41E+00
		Fe-59	<1.51E+01	0.00E+00	1.51E+01
		Co-60	<6.87E+00	0.00E+00	6.87E+00
		Zn-65	<1.22E+01	0.00E+00	1.22E+01
		Zr-95	<1.25E+01	0.00E+00	1.25E+01
		Nb-95	<8.12E+00	0.00E+00	8.12E+00
		I-131	<9.84E+00	0.00E+00	9.84E+00
		Cs-134	<8.77E+00	0.00E+00	8.77E+00
		Cs-137	<7.85E+00	0.00E+00	7.85E+00
		BaLa-140	<6.83E+00	0.00E+00	6.83E+00
		Total-Gam	0.00E+00		
		H3GW	<-2.3E+01	0.00E+00	1.77E+02
Sample ID: 600529	Sample Dates: 12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-7.2E+01	0.00E+00	1.93E+02

Sample Point 410 [INDICATOR - -- @ 0.65 miles]

Sample ID: 585332	Sample Dates: 3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.72E+00	0.00E+00	4.72E+00
		Co-58	<6.46E+00	0.00E+00	6.46E+00
		Fe-59	<9.80E+00	0.00E+00	9.80E+00
		Co-60	<7.03E+00	0.00E+00	7.03E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.13E+01	0.00E+00	1.13E+01
		Nb-95	<5.50E+00	0.00E+00	5.50E+00
		I-131	<7.39E+00	0.00E+00	7.39E+00
		Cs-134	<7.83E+00	0.00E+00	7.83E+00
		Cs-137	<6.32E+00	0.00E+00	6.32E+00
		BaLa-140	<7.03E+00	0.00E+00	7.03E+00
		Total-Gam	0.00E+00		
		H3GW	<-1.1E+02	0.00E+00	2.13E+02
Sample ID: 590132	Sample Dates: 6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-5.9E+01	0.00E+00	2.03E+02
Sample ID: 593976	Sample Dates: 9/8/2023 - 9/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.74E+00	0.00E+00	3.74E+00
		Co-58	<6.84E+00	0.00E+00	6.84E+00
		Fe-59	<1.56E+01	0.00E+00	1.56E+01
		Co-60	<7.41E+00	0.00E+00	7.41E+00
		Zn-65	<1.75E+01	0.00E+00	1.75E+01
		Zr-95	<8.60E+00	0.00E+00	8.60E+00
		Nb-95	<7.46E+00	0.00E+00	7.46E+00
		I-131	<8.81E+00	0.00E+00	8.81E+00
		Cs-134	<7.51E+00	0.00E+00	7.51E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 410 [INDICATOR - -- @ 0.65 miles]

Sample ID: 593976	Sample Dates: 9/8/2023 - 9/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<7.37E+00	0.00E+00	7.37E+00
		BaLa-140	<1.32E+01	0.00E+00	1.32E+01
		Total-Gam	0.00E+00		
		H3GW	<-4.6E+00	0.00E+00	1.77E+02
Sample ID: 600530	Sample Dates: 12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-6.7E+01	0.00E+00	1.94E+02

Sample Point 412 [INDICATOR - -- @ 0 miles]

Sample ID: 593978	Sample Dates: 9/7/2023 - 9/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.56E+00	0.00E+00	6.56E+00
		Co-58	<4.59E+00	0.00E+00	4.59E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<4.76E+00	0.00E+00	4.76E+00
		Zn-65	<1.25E+01	0.00E+00	1.25E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<7.90E+00	0.00E+00	7.90E+00
		I-131	<6.72E+00	0.00E+00	6.72E+00
		Cs-134	<6.17E+00	0.00E+00	6.17E+00
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<6.73E+00	0.00E+00	6.73E+00
		Total-Gam	0.00E+00		
Sample ID: 600531	Sample Dates: 12/4/2023 - 12/4/2023	H3GW	1.72E+03	1.52E+02	1.77E+02
		H3GW	1.77E+03	1.66E+02	1.93E+02

Sample Point 418 [INDICATOR - -- @ 0 miles]

Sample ID: 585338	Sample Dates: 3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.24E+00	0.00E+00	6.24E+00
		Co-58	<4.73E+00	0.00E+00	4.73E+00
		Fe-59	<1.23E+01	0.00E+00	1.23E+01
		Co-60	<3.82E+00	0.00E+00	3.82E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<9.44E+00	0.00E+00	9.44E+00
		Nb-95	<4.73E+00	0.00E+00	4.73E+00
		I-131	<7.74E+00	0.00E+00	7.74E+00
		Cs-134	<5.18E+00	0.00E+00	5.18E+00
		Cs-137	<5.91E+00	0.00E+00	5.91E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Total-Gam	0.00E+00		
Sample ID: 590139	Sample Dates: 6/5/2023 - 6/5/2023	H3GW	<4.85E+01	0.00E+00	2.13E+02
		H3GW	<1.21E+02	0.00E+00	2.03E+02

Sample Point 420 [INDICATOR - -- @ 0 miles]

Sample ID: 593982	Sample Dates: 9/7/2023 - 9/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.58E+00	0.00E+00	5.58E+00
		Co-58	<6.09E+00	0.00E+00	6.09E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<6.72E+00	0.00E+00	6.72E+00
		Zn-65	<9.40E+00	0.00E+00	9.40E+00
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<6.98E+00	0.00E+00	6.98E+00
		I-131	<7.65E+00	0.00E+00	7.65E+00
		Cs-134	<6.03E+00	0.00E+00	6.03E+00
		Cs-137	<6.93E+00	0.00E+00	6.93E+00
		BaLa-140	<8.59E+00	0.00E+00	8.59E+00
		Total-Gam	0.00E+00		
		H3GW	4.03E+03	2.01E+02	1.77E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 420 [INDICATOR - -- @ 0 miles]

Sample ID:	600537	Sample Dates:	12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	4.40E+03	2.24E+02	1.94E+02

Sample Point 423 [INDICATOR - -- @ 0 miles]

Sample ID:	585340	Sample Dates:	3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.23E+00	0.00E+00	5.23E+00
				Co-58	<5.33E+00	0.00E+00	5.33E+00
				Fe-59	<1.07E+01	0.00E+00	1.07E+01
				Co-60	<4.93E+00	0.00E+00	4.93E+00
				Zn-65	<7.80E+00	0.00E+00	7.80E+00
				Zr-95	<9.29E+00	0.00E+00	9.29E+00
				Nb-95	<6.27E+00	0.00E+00	6.27E+00
				I-131	<7.03E+00	0.00E+00	7.03E+00
				Cs-134	<5.21E+00	0.00E+00	5.21E+00
				Cs-137	<4.45E+00	0.00E+00	4.45E+00
				BaLa-140	<6.85E+00	0.00E+00	6.85E+00
				Total-Gam	0.00E+00		
				H3GW	<-7.0E+01	0.00E+00	2.13E+02

Sample ID:	590141	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-3.5E+01	0.00E+00	2.03E+02

Sample ID:	593983	Sample Dates:	9/8/2023 - 9/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.00E+00	0.00E+00	6.00E+00
				Co-58	<5.67E+00	0.00E+00	5.67E+00
				Fe-59	<1.41E+01	0.00E+00	1.41E+01
				Co-60	<6.40E+00	0.00E+00	6.40E+00
				Zn-65	<1.45E+01	0.00E+00	1.45E+01
				Zr-95	<1.03E+01	0.00E+00	1.03E+01
				Nb-95	<5.68E+00	0.00E+00	5.68E+00
				I-131	<8.03E+00	0.00E+00	8.03E+00
				Cs-134	<6.96E+00	0.00E+00	6.96E+00
				Cs-137	<5.17E+00	0.00E+00	5.17E+00
				BaLa-140	<6.58E+00	0.00E+00	6.58E+00
				Total-Gam	0.00E+00		
				H3GW	<-3.7E+01	0.00E+00	1.77E+02

Sample ID:	600538	Sample Dates:	12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-7.5E+01	0.00E+00	1.93E+02

Sample Point 424 [INDICATOR - -- @ 0 miles]

Sample ID:	585341	Sample Dates:	3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.77E+00	0.00E+00	4.77E+00
				Co-58	<6.53E+00	0.00E+00	6.53E+00
				Fe-59	<1.11E+01	0.00E+00	1.11E+01
				Co-60	<6.72E+00	0.00E+00	6.72E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<8.02E+00	0.00E+00	8.02E+00
				Nb-95	<5.11E+00	0.00E+00	5.11E+00
				I-131	<7.30E+00	0.00E+00	7.30E+00
				Cs-134	<6.77E+00	0.00E+00	6.77E+00
				Cs-137	<5.87E+00	0.00E+00	5.87E+00
				BaLa-140	<6.10E+00	0.00E+00	6.10E+00
				Total-Gam	0.00E+00		
				H3GW	<-2.4E+01	0.00E+00	2.13E+02

Sample ID:	590142	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-2.2E+01	0.00E+00	2.03E+02

Sample ID:	593984	Sample Dates:	9/8/2023 - 9/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.93E+00	0.00E+00	5.93E+00
				Co-58	<6.29E+00	0.00E+00	6.29E+00
				Fe-59	<1.38E+01	0.00E+00	1.38E+01
				Co-60	<8.96E+00	0.00E+00	8.96E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 424 [INDICATOR - -- @ 0 miles]

Sample ID: 593984	Sample Dates: 9/8/2023 - 9/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.01E+01	0.00E+00	1.01E+01
		Nb-95	<6.30E+00	0.00E+00	6.30E+00
		I-131	<9.56E+00	0.00E+00	9.56E+00
		Cs-134	<6.38E+00	0.00E+00	6.38E+00
		Cs-137	<6.41E+00	0.00E+00	6.41E+00
		BaLa-140	<7.72E+00	0.00E+00	7.72E+00
		Total-Gam	0.00E+00		
		H3GW	<6.04E+01	0.00E+00	1.77E+02
Sample ID: 600539	Sample Dates: 12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<2.13E+01	0.00E+00	1.93E+02

Sample Point 426 [INDICATOR - -- @ 0 miles]

Sample ID: 585343	Sample Dates: 3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.15E+00	0.00E+00	6.15E+00
		Co-58	<5.36E+00	0.00E+00	5.36E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<5.80E+00	0.00E+00	5.80E+00
		Zn-65	<1.11E+01	0.00E+00	1.11E+01
		Zr-95	<1.23E+01	0.00E+00	1.23E+01
		Nb-95	<6.86E+00	0.00E+00	6.86E+00
		I-131	<8.30E+00	0.00E+00	8.30E+00
		Cs-134	<5.90E+00	0.00E+00	5.90E+00
		Cs-137	<6.71E+00	0.00E+00	6.71E+00
		BaLa-140	<5.02E+00	0.00E+00	5.02E+00
		Total-Gam	0.00E+00		
Sample ID: 590144	Sample Dates: 6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-7.0E+01	0.00E+00	2.03E+02

Sample Point 429 [INDICATOR - -- @ 0 miles]

Sample ID: 585344	Sample Dates: 3/2/2023 - 3/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.69E+00	0.00E+00	6.69E+00
		Co-58	<8.03E+00	0.00E+00	8.03E+00
		Fe-59	<1.39E+01	0.00E+00	1.39E+01
		Co-60	<5.92E+00	0.00E+00	5.92E+00
		Zn-65	<1.12E+01	0.00E+00	1.12E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<6.65E+00	0.00E+00	6.65E+00
		I-131	<9.49E+00	0.00E+00	9.49E+00
		Cs-134	<7.50E+00	0.00E+00	7.50E+00
		Cs-137	<6.98E+00	0.00E+00	6.98E+00
		BaLa-140	<6.95E+00	0.00E+00	6.95E+00
		Total-Gam	0.00E+00		
Sample ID: 590145	Sample Dates: 6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<4.86E+01	0.00E+00	2.03E+02

Sample Point 612 [INDICATOR - -- @ 0 miles]

Sample ID: 585345	Sample Dates: 3/3/2023 - 3/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.99E+00	0.00E+00	6.99E+00
		Co-58	<5.24E+00	0.00E+00	5.24E+00
		Fe-59	<1.09E+01	0.00E+00	1.09E+01
		Co-60	<7.00E+00	0.00E+00	7.00E+00
		Zn-65	<1.45E+01	0.00E+00	1.45E+01
		Zr-95	<1.31E+01	0.00E+00	1.31E+01
		Nb-95	<6.37E+00	0.00E+00	6.37E+00
		I-131	<8.73E+00	0.00E+00	8.73E+00
		Cs-134	<7.30E+00	0.00E+00	7.30E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 612 [INDICATOR - -- @ 0 miles]

Sample ID:	585345	Sample Dates:	3/3/2023 - 3/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<6.01E+00	0.00E+00	6.01E+00
				BaLa-140	<8.12E+00	0.00E+00	8.12E+00
				Total-Gam	0.00E+00		
				H3GW	<-2.7E+00	0.00E+00	2.13E+02

Sample ID:	590146	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<8.59E+01	0.00E+00	2.02E+02

Sample Point 1020 [NOT_APPLIC - @ 0 miles]

Sample ID:	597192	Sample Dates:	9/7/2023 - 9/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.82E+00	0.00E+00	5.82E+00
				Co-58	<7.52E+00	0.00E+00	7.52E+00
				Fe-59	<1.17E+01	0.00E+00	1.17E+01
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.12E+01	0.00E+00	1.12E+01
				Zr-95	<1.20E+01	0.00E+00	1.20E+01
				Nb-95	<6.96E+00	0.00E+00	6.96E+00
				I-131	<1.09E+01	0.00E+00	1.09E+01
				Cs-134	<8.03E+00	0.00E+00	8.03E+00
				Cs-137	<5.65E+00	0.00E+00	5.65E+00
				BaLa-140	<9.68E+00	0.00E+00	9.68E+00
				Total-Gam	0.00E+00		
				H3GW	<1.41E+02	0.00E+00	1.77E+02

Sample ID:	602667	Sample Dates:	12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<2.13E+01	0.00E+00	1.93E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 500 [INDICATOR - SSW @ 4.92 miles]

Sample ID:	590827	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.69E+01	0.00E+00	5.69E+01
				Co-58	<4.08E+01	0.00E+00	4.08E+01
				Fe-59	<9.92E+01	0.00E+00	9.92E+01
				Co-60	<5.64E+01	0.00E+00	5.64E+01
				Zn-65	<1.03E+02	0.00E+00	1.03E+02
				Zr-95	<8.04E+01	0.00E+00	8.04E+01
				Nb-95	<8.00E+01	0.00E+00	8.00E+01
				I-131	<1.26E+02	0.00E+00	1.26E+02
				Cs-134	<5.32E+01	0.00E+00	5.32E+01
				Cs-137	<3.51E+01	0.00E+00	3.51E+01
				Be-7	<3.39E+02	0.00E+00	3.39E+02
				K-40	1.87E+03	6.90E+02	6.62E+02
				Co-57	<3.99E+01	0.00E+00	3.99E+01
				Mo-99	<2.34E+04	0.00E+00	2.34E+04
				Ag-110M	<3.62E+01	0.00E+00	3.62E+01
				Sb-122	<2.93E+03	0.00E+00	2.93E+03
				Sb-125	<1.04E+02	0.00E+00	1.04E+02

Sample ID:	601683	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.28E+01	0.00E+00	4.28E+01
				Co-58	<6.80E+01	0.00E+00	6.80E+01
				Fe-59	<1.31E+02	0.00E+00	1.31E+02
				Co-60	<5.67E+01	0.00E+00	5.67E+01
				Zn-65	<9.70E+01	0.00E+00	9.70E+01
				Zr-95	<1.22E+02	0.00E+00	1.22E+02
				Nb-95	<8.58E+01	0.00E+00	8.58E+01
				I-131	<8.20E+02	0.00E+00	8.20E+02
				Cs-134	<5.78E+01	0.00E+00	5.78E+01
				Cs-137	<3.93E+01	0.00E+00	3.93E+01
				Be-7	<4.62E+02	0.00E+00	4.62E+02
				K-40	3.21E+03	8.16E+02	1.26E+02
				Co-57	<3.21E+01	0.00E+00	3.21E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 500 [INDICATOR - SSW @ 4.92 miles]

Sample ID:	601683	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mo-99	<1.21E+06	0.00E+00	1.21E+06
				Ag-110M	<5.05E+01	0.00E+00	5.05E+01
				Sb-122	<3.02E+05	0.00E+00	3.02E+05
				Sb-125	<9.91E+01	0.00E+00	9.91E+01

Sample Point 501 [INDICATOR - -- @ 0 miles]

Sample ID:	590828	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.95E+01	0.00E+00	4.95E+01
				Co-58	<6.48E+01	0.00E+00	6.48E+01
				Fe-59	<1.04E+02	0.00E+00	1.04E+02
				Co-60	<4.94E+01	0.00E+00	4.94E+01
				Zn-65	<1.20E+02	0.00E+00	1.20E+02
				Zr-95	<1.08E+02	0.00E+00	1.08E+02
				Nb-95	<5.96E+01	0.00E+00	5.96E+01
				I-131	<1.80E+02	0.00E+00	1.80E+02
				Cs-134	<5.88E+01	0.00E+00	5.88E+01
				Cs-137	<6.80E+01	0.00E+00	6.80E+01
				Be-7	<4.73E+02	0.00E+00	4.73E+02
				K-40	8.96E+03	1.43E+03	6.89E+02
				Co-57	<3.74E+01	0.00E+00	3.74E+01
				Mo-99	<1.70E+04	0.00E+00	1.70E+04
				Ag-110M	<4.40E+01	0.00E+00	4.40E+01
				Sb-122	<2.84E+03	0.00E+00	2.84E+03
				Sb-125	<1.14E+02	0.00E+00	1.14E+02

Sample ID:	601684	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.99E+01	0.00E+00	9.99E+01
				Co-58	<1.37E+02	0.00E+00	1.37E+02
				Fe-59	<2.43E+02	0.00E+00	2.43E+02
				Co-60	<9.45E+01	0.00E+00	9.45E+01
				Zn-65	<2.33E+02	0.00E+00	2.33E+02
				Zr-95	<2.09E+02	0.00E+00	2.09E+02
				Nb-95	<1.83E+02	0.00E+00	1.83E+02
				I-131	<1.56E+03	0.00E+00	1.56E+03
				Cs-134	<1.08E+02	0.00E+00	1.08E+02
				Cs-137	<1.17E+02	0.00E+00	1.17E+02
				Be-7	<1.11E+03	0.00E+00	1.11E+03
				K-40	5.83E+03	1.77E+03	1.51E+03
				Co-57	<8.10E+01	0.00E+00	8.10E+01
				Mo-99	<2.51E+06	0.00E+00	2.51E+06
				Ag-110M	<1.13E+02	0.00E+00	1.13E+02
				Sb-122	<4.99E+05	0.00E+00	4.99E+05
				Sb-125	<1.98E+02	0.00E+00	1.98E+02

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 400 [CONTROL - NE @ 0.75 miles]

Sample ID:	584934	Sample Dates:	1/3/2023 - 2/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.38E+00	0.00E+00	2.38E+00
				Co-58	<2.38E+00	0.00E+00	2.38E+00
				Fe-59	<4.19E+00	0.00E+00	4.19E+00
				Co-60	<2.16E+00	0.00E+00	2.16E+00
				Zn-65	<5.14E+00	0.00E+00	5.14E+00
				Zr-95	<4.32E+00	0.00E+00	4.32E+00
				Nb-95	<2.77E+00	0.00E+00	2.77E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<2.34E+00	0.00E+00	2.34E+00
				Cs-137	<2.09E+00	0.00E+00	2.09E+00
				BaLa-140	<5.28E+00	0.00E+00	5.28E+00
				H3SW	<1.00E+02	0.00E+00	1.98E+02

Sample ID:	586081	Sample Dates:	2/1/2023 - 3/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.97E+00	0.00E+00	2.97E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 400 [CONTROL - NE @ 0.75 miles]

Sample ID: 586081	Sample Dates: 2/1/2023 - 3/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<3.27E+00	0.00E+00	3.27E+00
		Fe-59	<6.63E+00	0.00E+00	6.63E+00
		Co-60	<1.35E+00	0.00E+00	1.35E+00
		Zn-65	<5.62E+00	0.00E+00	5.62E+00
		Zr-95	<5.38E+00	0.00E+00	5.38E+00
		Nb-95	<3.99E+00	0.00E+00	3.99E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.12E+00	0.00E+00	3.12E+00
		Cs-137	<2.92E+00	0.00E+00	2.92E+00
		BaLa-140	<6.77E+00	0.00E+00	6.77E+00
		H3SW	<4.35E+01	0.00E+00	2.08E+02
Sample ID: 587438	Sample Dates: 3/1/2023 - 4/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.11E+00	0.00E+00	3.11E+00
		Co-58	<3.03E+00	0.00E+00	3.03E+00
		Fe-59	<6.11E+00	0.00E+00	6.11E+00
		Co-60	<2.68E+00	0.00E+00	2.68E+00
		Zn-65	<5.74E+00	0.00E+00	5.74E+00
		Zr-95	<5.40E+00	0.00E+00	5.40E+00
		Nb-95	<3.78E+00	0.00E+00	3.78E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.94E+00	0.00E+00	2.94E+00
		Cs-137	<2.47E+00	0.00E+00	2.47E+00
		BaLa-140	<7.68E+00	0.00E+00	7.68E+00
		H3SW	<2.72E+01	0.00E+00	1.99E+02
Sample ID: 589552	Sample Dates: 4/2/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.69E+00	0.00E+00	2.69E+00
		Co-58	<3.19E+00	0.00E+00	3.19E+00
		Fe-59	<6.51E+00	0.00E+00	6.51E+00
		Co-60	<2.30E+00	0.00E+00	2.30E+00
		Zn-65	<5.90E+00	0.00E+00	5.90E+00
		Zr-95	<6.63E+00	0.00E+00	6.63E+00
		Nb-95	<3.82E+00	0.00E+00	3.82E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.34E+00	0.00E+00	3.34E+00
		Cs-137	<2.91E+00	0.00E+00	2.91E+00
		BaLa-140	<7.54E+00	0.00E+00	7.54E+00
		H3SW	<1.3E+02	0.00E+00	2.15E+02
Sample ID: 590494	Sample Dates: 5/1/2023 - 6/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.78E+00	0.00E+00	1.78E+00
		Co-58	<2.34E+00	0.00E+00	2.34E+00
		Fe-59	<4.72E+00	0.00E+00	4.72E+00
		Co-60	<1.97E+00	0.00E+00	1.97E+00
		Zn-65	<4.41E+00	0.00E+00	4.41E+00
		Zr-95	<4.42E+00	0.00E+00	4.42E+00
		Nb-95	<3.47E+00	0.00E+00	3.47E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<2.21E+00	0.00E+00	2.21E+00
		Cs-137	<1.75E+00	0.00E+00	1.75E+00
		BaLa-140	<6.17E+00	0.00E+00	6.17E+00
		H3SW	<2.99E+01	0.00E+00	1.97E+02
Sample ID: 591629	Sample Dates: 6/1/2023 - 7/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.30E+00	0.00E+00	2.30E+00
		Co-58	<2.22E+00	0.00E+00	2.22E+00
		Fe-59	<5.78E+00	0.00E+00	5.78E+00
		Co-60	<2.88E+00	0.00E+00	2.88E+00
		Zn-65	<4.58E+00	0.00E+00	4.58E+00
		Zr-95	<6.19E+00	0.00E+00	6.19E+00
		Nb-95	<3.54E+00	0.00E+00	3.54E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.23E+00	0.00E+00	3.23E+00
		Cs-137	<2.20E+00	0.00E+00	2.20E+00
		BaLa-140	<8.74E+00	0.00E+00	8.74E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 400 [CONTROL - NE @ 0.75 miles]

Sample ID: 591629	Sample Dates: 6/1/2023 - 7/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.3E+02	0.00E+00	2.10E+02
Sample ID: 593010	Sample Dates: 7/2/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.28E+00	0.00E+00	2.28E+00
		Co-58	<2.67E+00	0.00E+00	2.67E+00
		Fe-59	<5.93E+00	0.00E+00	5.93E+00
		Co-60	<2.00E+00	0.00E+00	2.00E+00
		Zn-65	<4.78E+00	0.00E+00	4.78E+00
		Zr-95	<4.48E+00	0.00E+00	4.48E+00
		Nb-95	<3.59E+00	0.00E+00	3.59E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<2.62E+00	0.00E+00	2.62E+00
		Cs-137	<2.31E+00	0.00E+00	2.31E+00
		BaLa-140	<8.33E+00	0.00E+00	8.33E+00
		H3SW	<4.62E+01	0.00E+00	2.05E+02
Sample ID: 594288	Sample Dates: 8/1/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.49E+00	0.00E+00	1.49E+00
		Co-58	<1.54E+00	0.00E+00	1.54E+00
		Fe-59	<3.95E+00	0.00E+00	3.95E+00
		Co-60	<1.48E+00	0.00E+00	1.48E+00
		Zn-65	<2.95E+00	0.00E+00	2.95E+00
		Zr-95	<2.50E+00	0.00E+00	2.50E+00
		Nb-95	<1.94E+00	0.00E+00	1.94E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<1.42E+00	0.00E+00	1.42E+00
		Cs-137	<1.49E+00	0.00E+00	1.49E+00
		BaLa-140	<4.99E+00	0.00E+00	4.99E+00
		H3SW	<-3.5E+01	0.00E+00	2.01E+02
Sample ID: 596399	Sample Dates: 9/5/2023 - 10/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.34E+00	0.00E+00	2.34E+00
		Co-58	<2.46E+00	0.00E+00	2.46E+00
		Fe-59	<5.56E+00	0.00E+00	5.56E+00
		Co-60	<2.17E+00	0.00E+00	2.17E+00
		Zn-65	<4.62E+00	0.00E+00	4.62E+00
		Zr-95	<4.38E+00	0.00E+00	4.38E+00
		Nb-95	<2.93E+00	0.00E+00	2.93E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<2.55E+00	0.00E+00	2.55E+00
		Cs-137	<2.32E+00	0.00E+00	2.32E+00
		BaLa-140	<6.44E+00	0.00E+00	6.44E+00
		H3SW	<-2.2E+01	0.00E+00	1.99E+02
Sample ID: 598217	Sample Dates: 10/4/2023 - 11/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.52E+00	0.00E+00	2.52E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<5.89E+00	0.00E+00	5.89E+00
		Co-60	<2.69E+00	0.00E+00	2.69E+00
		Zn-65	<4.16E+00	0.00E+00	4.16E+00
		Zr-95	<4.68E+00	0.00E+00	4.68E+00
		Nb-95	<3.37E+00	0.00E+00	3.37E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.40E+00	0.00E+00	2.40E+00
		Cs-137	<2.66E+00	0.00E+00	2.66E+00
		BaLa-140	<6.20E+00	0.00E+00	6.20E+00
		H3SW	<-7.5E+01	0.00E+00	2.00E+02
Sample ID: 602265	Sample Dates: 11/2/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.87E+00	0.00E+00	1.87E+00
		Co-58	<2.15E+00	0.00E+00	2.15E+00
		Fe-59	<4.89E+00	0.00E+00	4.89E+00
		Co-60	<1.96E+00	0.00E+00	1.96E+00
		Zn-65	<3.86E+00	0.00E+00	3.86E+00
		Zr-95	<3.71E+00	0.00E+00	3.71E+00
		Nb-95	<3.08E+00	0.00E+00	3.08E+00

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 400 [CONTROL - NE @ 0.75 miles]

Sample ID:	602265	Sample Dates:	11/2/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.35E+01	0.00E+00	1.35E+01
				Cs-134	<2.25E+00	0.00E+00	2.25E+00
				Cs-137	<1.70E+00	0.00E+00	1.70E+00
				BaLa-140	<6.25E+00	0.00E+00	6.25E+00
				H3SW	<-5.8E+01	0.00E+00	2.04E+02

Sample ID:	600312	Sample Dates:	12/4/2023 - 1/1/2024	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.59E+00	0.00E+00	1.59E+00
				Co-58	<1.93E+00	0.00E+00	1.93E+00
				Fe-59	<4.15E+00	0.00E+00	4.15E+00
				Co-60	<1.79E+00	0.00E+00	1.79E+00
				Zn-65	<3.39E+00	0.00E+00	3.39E+00
				Zr-95	<3.57E+00	0.00E+00	3.57E+00
				Nb-95	<2.68E+00	0.00E+00	2.68E+00
				I-131	<1.04E+01	0.00E+00	1.04E+01
				Cs-134	<1.82E+00	0.00E+00	1.82E+00
				Cs-137	<1.81E+00	0.00E+00	1.81E+00
				BaLa-140	<5.78E+00	0.00E+00	5.78E+00
				H3SW	<-5.3E+01	0.00E+00	2.09E+02

Sample Point 401 [INDICATOR - SSW @ 4.82 miles]

Sample ID:	584935	Sample Dates:	1/3/2023 - 2/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.71E+00	0.00E+00	2.71E+00
				Co-58	<2.56E+00	0.00E+00	2.56E+00
				Fe-59	<6.70E+00	0.00E+00	6.70E+00
				Co-60	<2.75E+00	0.00E+00	2.75E+00
				Zn-65	<5.55E+00	0.00E+00	5.55E+00
				Zr-95	<6.65E+00	0.00E+00	6.65E+00
				Nb-95	<4.27E+00	0.00E+00	4.27E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<2.66E+00	0.00E+00	2.66E+00
				Cs-137	<3.09E+00	0.00E+00	3.09E+00
				BaLa-140	<8.80E+00	0.00E+00	8.80E+00
				H3SW	<2.44E+01	0.00E+00	1.98E+02

Sample ID:	586082	Sample Dates:	2/1/2023 - 3/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.55E+00	0.00E+00	2.55E+00
				Co-58	<3.65E+00	0.00E+00	3.65E+00
				Fe-59	<7.32E+00	0.00E+00	7.32E+00
				Co-60	<2.93E+00	0.00E+00	2.93E+00
				Zn-65	<6.81E+00	0.00E+00	6.81E+00
				Zr-95	<5.78E+00	0.00E+00	5.78E+00
				Nb-95	<4.33E+00	0.00E+00	4.33E+00
				I-131	<1.32E+01	0.00E+00	1.32E+01
				Cs-134	<3.15E+00	0.00E+00	3.15E+00
				Cs-137	<2.66E+00	0.00E+00	2.66E+00
				BaLa-140	<5.92E+00	0.00E+00	5.92E+00
				H3SW	<-1.1E+01	0.00E+00	2.07E+02

Sample ID:	587439	Sample Dates:	3/1/2023 - 4/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.01E+00	0.00E+00	2.01E+00
				Co-58	<2.96E+00	0.00E+00	2.96E+00
				Fe-59	<6.37E+00	0.00E+00	6.37E+00
				Co-60	<2.60E+00	0.00E+00	2.60E+00
				Zn-65	<5.41E+00	0.00E+00	5.41E+00
				Zr-95	<5.54E+00	0.00E+00	5.54E+00
				Nb-95	<3.56E+00	0.00E+00	3.56E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<3.38E+00	0.00E+00	3.38E+00
				Cs-137	<2.49E+00	0.00E+00	2.49E+00
				BaLa-140	<7.76E+00	0.00E+00	7.76E+00
				H3SW	<5.71E+01	0.00E+00	1.99E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 401 [INDICATOR - SSW @ 4.82 miles]

Sample ID: 589553	Sample Dates: 4/2/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.79E+00	0.00E+00	2.79E+00
		Co-58	<2.04E+00	0.00E+00	2.04E+00
		Fe-59	<6.95E+00	0.00E+00	6.95E+00
		Co-60	<2.42E+00	0.00E+00	2.42E+00
		Zn-65	<5.30E+00	0.00E+00	5.30E+00
		Zr-95	<6.04E+00	0.00E+00	6.04E+00
		Nb-95	<3.68E+00	0.00E+00	3.68E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.03E+00	0.00E+00	3.03E+00
		Cs-137	<2.15E+00	0.00E+00	2.15E+00
		BaLa-140	<6.63E+00	0.00E+00	6.63E+00
		H3SW	<-6.8E+01	0.00E+00	2.15E+02
Sample ID: 590495	Sample Dates: 5/1/2023 - 6/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.10E+00	0.00E+00	2.10E+00
		Co-58	<2.49E+00	0.00E+00	2.49E+00
		Fe-59	<5.24E+00	0.00E+00	5.24E+00
		Co-60	<2.47E+00	0.00E+00	2.47E+00
		Zn-65	<5.56E+00	0.00E+00	5.56E+00
		Zr-95	<4.31E+00	0.00E+00	4.31E+00
		Nb-95	<2.59E+00	0.00E+00	2.59E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<2.43E+00	0.00E+00	2.43E+00
		Cs-137	<2.62E+00	0.00E+00	2.62E+00
		BaLa-140	<5.18E+00	0.00E+00	5.18E+00
		H3SW	<1.16E+02	0.00E+00	1.96E+02
Sample ID: 591630	Sample Dates: 6/1/2023 - 7/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.77E+00	0.00E+00	2.77E+00
		Co-58	<3.13E+00	0.00E+00	3.13E+00
		Fe-59	<6.52E+00	0.00E+00	6.52E+00
		Co-60	<2.30E+00	0.00E+00	2.30E+00
		Zn-65	<6.18E+00	0.00E+00	6.18E+00
		Zr-95	<5.58E+00	0.00E+00	5.58E+00
		Nb-95	<3.46E+00	0.00E+00	3.46E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.11E+00	0.00E+00	3.11E+00
		Cs-137	<2.72E+00	0.00E+00	2.72E+00
		BaLa-140	<6.21E+00	0.00E+00	6.21E+00
		H3SW	<-4.1E+01	0.00E+00	2.11E+02
Sample ID: 593011	Sample Dates: 7/2/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.25E+00	0.00E+00	2.25E+00
		Co-58	<2.41E+00	0.00E+00	2.41E+00
		Fe-59	<5.20E+00	0.00E+00	5.20E+00
		Co-60	<2.38E+00	0.00E+00	2.38E+00
		Zn-65	<4.44E+00	0.00E+00	4.44E+00
		Zr-95	<4.94E+00	0.00E+00	4.94E+00
		Nb-95	<3.57E+00	0.00E+00	3.57E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<2.47E+00	0.00E+00	2.47E+00
		Cs-137	<2.30E+00	0.00E+00	2.30E+00
		BaLa-140	<6.74E+00	0.00E+00	6.74E+00
		H3SW	<2.44E+01	0.00E+00	2.05E+02
Sample ID: 594289	Sample Dates: 8/1/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.73E+00	0.00E+00	1.73E+00
		Co-58	<1.74E+00	0.00E+00	1.74E+00
		Fe-59	<4.55E+00	0.00E+00	4.55E+00
		Co-60	<1.33E+00	0.00E+00	1.33E+00
		Zn-65	<3.29E+00	0.00E+00	3.29E+00
		Zr-95	<3.55E+00	0.00E+00	3.55E+00
		Nb-95	<2.85E+00	0.00E+00	2.85E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<1.74E+00	0.00E+00	1.74E+00
		Cs-137	<1.74E+00	0.00E+00	1.74E+00

EnRad Laboratories

13339 Hagers Ferry Road

Huntersville, North Carolina 28078

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 401 [INDICATOR - SSW @ 4.82 miles]

Sample ID:	594289	Sample Dates: 8/1/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			BaLa-140	<6.03E+00	0.00E+00	6.03E+00
			H3SW	<-2.7E+01	0.00E+00	2.01E+02
Sample ID:	596400	Sample Dates: 9/5/2023 - 10/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.66E+00	0.00E+00	2.66E+00
			Co-58	<2.26E+00	0.00E+00	2.26E+00
			Fe-59	<4.66E+00	0.00E+00	4.66E+00
			Co-60	<1.89E+00	0.00E+00	1.89E+00
			Zn-65	<4.85E+00	0.00E+00	4.85E+00
			Zr-95	<3.59E+00	0.00E+00	3.59E+00
			Nb-95	<2.52E+00	0.00E+00	2.52E+00
			I-131	<1.25E+01	0.00E+00	1.25E+01
			Cs-134	<1.89E+00	0.00E+00	1.89E+00
			Cs-137	<2.06E+00	0.00E+00	2.06E+00
			BaLa-140	<6.19E+00	0.00E+00	6.19E+00
H3SW	<4.84E+01	0.00E+00	1.99E+02			
Sample ID:	598218	Sample Dates: 10/4/2023 - 11/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.21E+00	0.00E+00	2.21E+00
			Co-58	<2.88E+00	0.00E+00	2.88E+00
			Fe-59	<6.59E+00	0.00E+00	6.59E+00
			Co-60	<2.78E+00	0.00E+00	2.78E+00
			Zn-65	<5.73E+00	0.00E+00	5.73E+00
			Zr-95	<4.49E+00	0.00E+00	4.49E+00
			Nb-95	<3.49E+00	0.00E+00	3.49E+00
			I-131	<1.21E+01	0.00E+00	1.21E+01
			Cs-134	<2.62E+00	0.00E+00	2.62E+00
			Cs-137	<2.23E+00	0.00E+00	2.23E+00
			BaLa-140	<6.40E+00	0.00E+00	6.40E+00
H3SW	<-1.6E+01	0.00E+00	2.00E+02			
Sample ID:	602266	Sample Dates: 11/2/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.85E+00	0.00E+00	1.85E+00
			Co-58	<1.95E+00	0.00E+00	1.95E+00
			Fe-59	<4.41E+00	0.00E+00	4.41E+00
			Co-60	<1.80E+00	0.00E+00	1.80E+00
			Zn-65	<3.69E+00	0.00E+00	3.69E+00
			Zr-95	<3.68E+00	0.00E+00	3.68E+00
			Nb-95	<2.74E+00	0.00E+00	2.74E+00
			I-131	<1.35E+01	0.00E+00	1.35E+01
			Cs-134	<1.92E+00	0.00E+00	1.92E+00
			Cs-137	<1.79E+00	0.00E+00	1.79E+00
			BaLa-140	<6.53E+00	0.00E+00	6.53E+00
H3SW	<-6.8E+01	0.00E+00	2.03E+02			
Sample ID:	600313	Sample Dates: 12/4/2023 - 1/1/2024	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.17E+00	0.00E+00	2.17E+00
			Co-58	<2.19E+00	0.00E+00	2.19E+00
			Fe-59	<4.97E+00	0.00E+00	4.97E+00
			Co-60	<1.63E+00	0.00E+00	1.63E+00
			Zn-65	<5.00E+00	0.00E+00	5.00E+00
			Zr-95	<3.50E+00	0.00E+00	3.50E+00
			Nb-95	<3.22E+00	0.00E+00	3.22E+00
			I-131	<1.30E+01	0.00E+00	1.30E+01
			Cs-134	<2.09E+00	0.00E+00	2.09E+00
			Cs-137	<1.63E+00	0.00E+00	1.63E+00
			BaLa-140	<5.53E+00	0.00E+00	5.53E+00
H3SW	<-1.5E+02	0.00E+00	2.10E+02			

Sample ID: 582300	Sample Dates: 1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.70E+00	0.00E+00	4.70E+00
		Co-58	<7.25E+00	0.00E+00	7.25E+00
		Fe-59	<8.69E+00	0.00E+00	8.69E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 494 [INDICATOR - -- @ 0 miles]

Sample ID: 582300	Sample Dates: 1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<6.66E+00	0.00E+00	6.66E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.23E+01	0.00E+00	1.23E+01
		Nb-95	<6.13E+00	0.00E+00	6.13E+00
		I-131	<7.13E+00	0.00E+00	7.13E+00
		Cs-134	<6.49E+00	0.00E+00	6.49E+00
		Cs-137	<6.36E+00	0.00E+00	6.36E+00
		BaLa-140	<7.29E+00	0.00E+00	7.29E+00
		Total-Gam	0.00E+00		
		H3SW	<3.69E+01	0.00E+00	1.95E+02
Sample ID: 583460	Sample Dates: 2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.16E+00	0.00E+00	5.16E+00
		Co-58	<5.20E+00	0.00E+00	5.20E+00
		Fe-59	<1.41E+01	0.00E+00	1.41E+01
		Co-60	<4.54E+00	0.00E+00	4.54E+00
		Zn-65	<1.05E+01	0.00E+00	1.05E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<5.55E+00	0.00E+00	5.55E+00
		I-131	<7.66E+00	0.00E+00	7.66E+00
		Cs-134	<6.48E+00	0.00E+00	6.48E+00
		Cs-137	<6.79E+00	0.00E+00	6.79E+00
		BaLa-140	<6.49E+00	0.00E+00	6.49E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.6E+01	0.00E+00	2.03E+02
Sample ID: 585527	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.50E+00	0.00E+00	6.50E+00
		Co-58	<4.70E+00	0.00E+00	4.70E+00
		Fe-59	<9.19E+00	0.00E+00	9.19E+00
		Co-60	<6.64E+00	0.00E+00	6.64E+00
		Zn-65	<1.41E+01	0.00E+00	1.41E+01
		Zr-95	<9.87E+00	0.00E+00	9.87E+00
		Nb-95	<8.19E+00	0.00E+00	8.19E+00
		I-131	<6.32E+00	0.00E+00	6.32E+00
		Cs-134	<6.40E+00	0.00E+00	6.40E+00
		Cs-137	<6.71E+00	0.00E+00	6.71E+00
		BaLa-140	<8.27E+00	0.00E+00	8.27E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.4E+01	0.00E+00	2.13E+02
Sample ID: 587018	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.81E+00	0.00E+00	6.81E+00
		Co-58	<6.30E+00	0.00E+00	6.30E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<4.52E+00	0.00E+00	4.52E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<5.97E+00	0.00E+00	5.97E+00
		I-131	<7.94E+00	0.00E+00	7.94E+00
		Cs-134	<6.05E+00	0.00E+00	6.05E+00
		Cs-137	<7.12E+00	0.00E+00	7.12E+00
		BaLa-140	<9.71E+00	0.00E+00	9.71E+00
		Total-Gam	0.00E+00		
		H3SW	<2.73E+01	0.00E+00	1.90E+02
Sample ID: 588551	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.36E+00	0.00E+00	6.36E+00
		Co-58	<7.17E+00	0.00E+00	7.17E+00
		Fe-59	<1.16E+01	0.00E+00	1.16E+01
		Co-60	<5.92E+00	0.00E+00	5.92E+00
		Zn-65	<1.35E+01	0.00E+00	1.35E+01
		Zr-95	<7.99E+00	0.00E+00	7.99E+00
		Nb-95	<8.23E+00	0.00E+00	8.23E+00
		I-131	<8.10E+00	0.00E+00	8.10E+00
		Cs-134	<8.68E+00	0.00E+00	8.68E+00

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 494 [INDICATOR - -- @ 0 miles]

Sample ID: 588551	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<6.68E+00	0.00E+00	6.68E+00
		BaLa-140	<9.31E+00	0.00E+00	9.31E+00
		Total-Gam	0.00E+00		
		H3SW	<7.10E+00	0.00E+00	1.86E+02
Sample ID: 590320	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.55E+00	0.00E+00	6.55E+00
		Co-58	<4.89E+00	0.00E+00	4.89E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<6.18E+00	0.00E+00	6.18E+00
		Zn-65	<1.21E+01	0.00E+00	1.21E+01
		Zr-95	<6.70E+00	0.00E+00	6.70E+00
		Nb-95	<5.04E+00	0.00E+00	5.04E+00
		I-131	<7.58E+00	0.00E+00	7.58E+00
		Cs-134	<6.39E+00	0.00E+00	6.39E+00
		Cs-137	<4.53E+00	0.00E+00	4.53E+00
		BaLa-140	<8.71E+00	0.00E+00	8.71E+00
		Total-Gam	0.00E+00		
Sample ID: 591517	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.13E+00	0.00E+00	6.13E+00
		Co-58	<6.15E+00	0.00E+00	6.15E+00
		Fe-59	<1.13E+01	0.00E+00	1.13E+01
		Co-60	<7.70E+00	0.00E+00	7.70E+00
		Zn-65	<1.52E+01	0.00E+00	1.52E+01
		Zr-95	<9.97E+00	0.00E+00	9.97E+00
		Nb-95	<6.24E+00	0.00E+00	6.24E+00
		I-131	<6.73E+00	0.00E+00	6.73E+00
		Cs-134	<6.41E+00	0.00E+00	6.41E+00
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<7.41E+00	0.00E+00	7.41E+00
		Total-Gam	0.00E+00		
Sample ID: 592824	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.19E+00	0.00E+00	5.19E+00
		Co-58	<5.53E+00	0.00E+00	5.53E+00
		Fe-59	<1.21E+01	0.00E+00	1.21E+01
		Co-60	<7.01E+00	0.00E+00	7.01E+00
		Zn-65	<1.16E+01	0.00E+00	1.16E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<5.10E+00	0.00E+00	5.10E+00
		I-131	<8.47E+00	0.00E+00	8.47E+00
		Cs-134	<6.51E+00	0.00E+00	6.51E+00
		Cs-137	<6.51E+00	0.00E+00	6.51E+00
		BaLa-140	<9.94E+00	0.00E+00	9.94E+00
		Total-Gam	0.00E+00		
Sample ID: 594255	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.14E+00	0.00E+00	6.14E+00
		Co-58	<6.31E+00	0.00E+00	6.31E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<5.05E+00	0.00E+00	5.05E+00
		Zn-65	<1.39E+01	0.00E+00	1.39E+01
		Zr-95	<1.07E+01	0.00E+00	1.07E+01
		Nb-95	<5.81E+00	0.00E+00	5.81E+00
		I-131	<6.16E+00	0.00E+00	6.16E+00
		Cs-134	<7.66E+00	0.00E+00	7.66E+00
		Cs-137	<4.60E+00	0.00E+00	4.60E+00
		BaLa-140	<6.78E+00	0.00E+00	6.78E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.9E+01	0.00E+00	1.97E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 494 [INDICATOR - -- @ 0 miles]

Sample ID:	596464	Sample Dates:	10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.70E+00	0.00E+00	7.70E+00
				Co-58	<6.50E+00	0.00E+00	6.50E+00
				Fe-59	<1.25E+01	0.00E+00	1.25E+01
				Co-60	<8.65E+00	0.00E+00	8.65E+00
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<1.27E+01	0.00E+00	1.27E+01
				Nb-95	<9.02E+00	0.00E+00	9.02E+00
				I-131	<8.74E+00	0.00E+00	8.74E+00
				Cs-134	<9.77E+00	0.00E+00	9.77E+00
				Cs-137	<8.18E+00	0.00E+00	8.18E+00
				BaLa-140	<1.15E+01	0.00E+00	1.15E+01
				Total-Gam	0.00E+00		
				H3SW	<1.25E+02	0.00E+00	1.79E+02

Sample ID:	598835	Sample Dates:	11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.14E+00	0.00E+00	7.14E+00
				Co-58	<4.91E+00	0.00E+00	4.91E+00
				Fe-59	<1.35E+01	0.00E+00	1.35E+01
				Co-60	<8.15E+00	0.00E+00	8.15E+00
				Zn-65	<1.37E+01	0.00E+00	1.37E+01
				Zr-95	<1.23E+01	0.00E+00	1.23E+01
				Nb-95	<7.06E+00	0.00E+00	7.06E+00
				I-131	<9.84E+00	0.00E+00	9.84E+00
				Cs-134	<6.85E+00	0.00E+00	6.85E+00
				Cs-137	<6.70E+00	0.00E+00	6.70E+00
				BaLa-140	<9.64E+00	0.00E+00	9.64E+00
				Total-Gam	0.00E+00		
				H3SW	<4.67E+01	0.00E+00	1.93E+02

Sample ID:	601096	Sample Dates:	12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.36E+00	0.00E+00	6.36E+00
				Co-58	<5.26E+00	0.00E+00	5.26E+00
				Fe-59	<1.19E+01	0.00E+00	1.19E+01
				Co-60	<4.99E+00	0.00E+00	4.99E+00
				Zn-65	<1.27E+01	0.00E+00	1.27E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<6.32E+00	0.00E+00	6.32E+00
				I-131	<7.29E+00	0.00E+00	7.29E+00
				Cs-134	<7.15E+00	0.00E+00	7.15E+00
				Cs-137	<6.37E+00	0.00E+00	6.37E+00
				BaLa-140	<4.05E+00	0.00E+00	4.05E+00
				Total-Gam	0.00E+00		
				H3SW	<7.59E+01	0.00E+00	1.72E+02

Sample Point 495 [INDICATOR - -- @ 0 miles]

Sample ID:	582301	Sample Dates:	1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.48E+00	0.00E+00	6.48E+00
				Co-58	<6.13E+00	0.00E+00	6.13E+00
				Fe-59	<1.20E+01	0.00E+00	1.20E+01
				Co-60	<6.30E+00	0.00E+00	6.30E+00
				Zn-65	<1.34E+01	0.00E+00	1.34E+01
				Zr-95	<1.18E+01	0.00E+00	1.18E+01
				Nb-95	<6.14E+00	0.00E+00	6.14E+00
				I-131	<5.86E+00	0.00E+00	5.86E+00
				Cs-134	<7.48E+00	0.00E+00	7.48E+00
				Cs-137	<7.27E+00	0.00E+00	7.27E+00
				BaLa-140	<7.87E+00	0.00E+00	7.87E+00
				Total-Gam	0.00E+00		
				H3SW	<-9.8E+01	0.00E+00	1.94E+02

Sample ID:	583461	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.11E+00	0.00E+00	6.11E+00
				Co-58	<9.32E+00	0.00E+00	9.32E+00
				Fe-59	<1.57E+01	0.00E+00	1.57E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 495 [INDICATOR - -- @ 0 miles]

Sample ID: 583461	Sample Dates: 2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<9.73E+00	0.00E+00	9.73E+00
		Zn-65	<1.42E+01	0.00E+00	1.42E+01
		Zr-95	<1.38E+01	0.00E+00	1.38E+01
		Nb-95	<8.67E+00	0.00E+00	8.67E+00
		I-131	<8.05E+00	0.00E+00	8.05E+00
		Cs-134	<6.86E+00	0.00E+00	6.86E+00
		Cs-137	<7.05E+00	0.00E+00	7.05E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Total-Gam	0.00E+00		
		H3SW	<2.71E+00	0.00E+00	2.03E+02
Sample ID: 585528	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.48E+00	0.00E+00	6.48E+00
		Co-58	<5.76E+00	0.00E+00	5.76E+00
		Fe-59	<1.52E+01	0.00E+00	1.52E+01
		Co-60	<6.99E+00	0.00E+00	6.99E+00
		Zn-65	<9.68E+00	0.00E+00	9.68E+00
		Zr-95	<1.21E+01	0.00E+00	1.21E+01
		Nb-95	<6.76E+00	0.00E+00	6.76E+00
		I-131	<7.31E+00	0.00E+00	7.31E+00
		Cs-134	<6.91E+00	0.00E+00	6.91E+00
		Cs-137	<5.27E+00	0.00E+00	5.27E+00
		BaLa-140	<5.98E+00	0.00E+00	5.98E+00
		Total-Gam	0.00E+00		
		H3SW	<5.42E+00	0.00E+00	2.13E+02
Sample ID: 587019	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<8.00E+00	0.00E+00	8.00E+00
		Co-58	<6.86E+00	0.00E+00	6.86E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<7.01E+00	0.00E+00	7.01E+00
		Zn-65	<1.57E+01	0.00E+00	1.57E+01
		Zr-95	<1.13E+01	0.00E+00	1.13E+01
		Nb-95	<7.91E+00	0.00E+00	7.91E+00
		I-131	<7.43E+00	0.00E+00	7.43E+00
		Cs-134	<7.92E+00	0.00E+00	7.92E+00
		Cs-137	<7.67E+00	0.00E+00	7.67E+00
		BaLa-140	<5.46E+00	0.00E+00	5.46E+00
		Total-Gam	0.00E+00		
		H3SW	<4.2E+01	0.00E+00	1.87E+02
Sample ID: 588552	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.73E+00	0.00E+00	5.73E+00
		Co-58	<5.12E+00	0.00E+00	5.12E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<7.02E+00	0.00E+00	7.02E+00
		Zn-65	<1.63E+01	0.00E+00	1.63E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<7.62E+00	0.00E+00	7.62E+00
		I-131	<7.70E+00	0.00E+00	7.70E+00
		Cs-134	<5.31E+00	0.00E+00	5.31E+00
		Cs-137	<5.97E+00	0.00E+00	5.97E+00
		BaLa-140	<8.36E+00	0.00E+00	8.36E+00
		Total-Gam	0.00E+00		
		H3SW	<8.69E+01	0.00E+00	1.84E+02
Sample ID: 590321	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.73E+00	0.00E+00	5.73E+00
		Co-58	<5.10E+00	0.00E+00	5.10E+00
		Fe-59	<9.12E+00	0.00E+00	9.12E+00
		Co-60	<4.04E+00	0.00E+00	4.04E+00
		Zn-65	<1.15E+01	0.00E+00	1.15E+01
		Zr-95	<7.52E+00	0.00E+00	7.52E+00
		Nb-95	<5.87E+00	0.00E+00	5.87E+00
		I-131	<5.54E+00	0.00E+00	5.54E+00
		Cs-134	<5.96E+00	0.00E+00	5.96E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 495 [INDICATOR - -- @ 0 miles]

Sample ID: 590321	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<5.69E+00	0.00E+00	5.69E+00
		Total-Gam	0.00E+00		
		H3SW	<0.00E+00	0.00E+00	1.79E+02
Sample ID: 591518	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.29E+00	0.00E+00	4.29E+00
		Co-58	<5.54E+00	0.00E+00	5.54E+00
		Fe-59	<1.26E+01	0.00E+00	1.26E+01
		Co-60	<5.22E+00	0.00E+00	5.22E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<8.44E+00	0.00E+00	8.44E+00
		Nb-95	<5.65E+00	0.00E+00	5.65E+00
		I-131	<5.91E+00	0.00E+00	5.91E+00
		Cs-134	<4.82E+00	0.00E+00	4.82E+00
		Cs-137	<4.47E+00	0.00E+00	4.47E+00
		BaLa-140	<4.46E+00	0.00E+00	4.46E+00
		Total-Gam	0.00E+00		
Sample ID: 592825	Sample Dates: 8/23/2023 - 8/23/2023	H3SW	<1.04E+02	0.00E+00	1.88E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.92E+00	0.00E+00	5.92E+00
		Co-58	<5.87E+00	0.00E+00	5.87E+00
		Fe-59	<1.35E+01	0.00E+00	1.35E+01
		Co-60	<2.81E+00	0.00E+00	2.81E+00
		Zn-65	<1.25E+01	0.00E+00	1.25E+01
		Zr-95	<9.91E+00	0.00E+00	9.91E+00
		Nb-95	<6.58E+00	0.00E+00	6.58E+00
		I-131	<7.37E+00	0.00E+00	7.37E+00
		Cs-134	<4.81E+00	0.00E+00	4.81E+00
		Cs-137	<4.83E+00	0.00E+00	4.83E+00
		BaLa-140	<6.81E+00	0.00E+00	6.81E+00
Sample ID: 594256	Sample Dates: 9/19/2023 - 9/19/2023	Total-Gam	0.00E+00		
		H3SW	<-1.0E+02	0.00E+00	2.09E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.95E+00	0.00E+00	4.95E+00
		Co-58	<4.50E+00	0.00E+00	4.50E+00
		Fe-59	<9.02E+00	0.00E+00	9.02E+00
		Co-60	<1.09E+00	0.00E+00	1.09E+00
		Zn-65	<9.31E+00	0.00E+00	9.31E+00
		Zr-95	<8.59E+00	0.00E+00	8.59E+00
		Nb-95	<6.64E+00	0.00E+00	6.64E+00
		I-131	<6.51E+00	0.00E+00	6.51E+00
		Cs-134	<6.61E+00	0.00E+00	6.61E+00
		Cs-137	<4.83E+00	0.00E+00	4.83E+00
Sample ID: 596465	Sample Dates: 10/17/2023 - 10/17/2023	BaLa-140	<5.81E+00	0.00E+00	5.81E+00
		Total-Gam	0.00E+00		
		H3SW	<2.42E+01	0.00E+00	1.97E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.50E+00	0.00E+00	4.50E+00
		Co-58	<5.52E+00	0.00E+00	5.52E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<7.85E+00	0.00E+00	7.85E+00
		Zn-65	<9.30E+00	0.00E+00	9.30E+00
		Zr-95	<9.26E+00	0.00E+00	9.26E+00
		Nb-95	<6.19E+00	0.00E+00	6.19E+00
		I-131	<6.05E+00	0.00E+00	6.05E+00
		Cs-134	<7.83E+00	0.00E+00	7.83E+00
		Cs-137	<5.90E+00	0.00E+00	5.90E+00
		BaLa-140	<6.43E+00	0.00E+00	6.43E+00
		Total-Gam	0.00E+00		
		H3SW	<6.11E+01	0.00E+00	1.79E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 495 [INDICATOR - -- @ 0 miles]

Sample ID: 598836 Sample Dates: 11/16/2023 - 11/16/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<7.89E+00	0.00E+00	7.89E+00
Co-58	<6.83E+00	0.00E+00	6.83E+00
Fe-59	<1.45E+01	0.00E+00	1.45E+01
Co-60	<5.21E+00	0.00E+00	5.21E+00
Zn-65	<1.36E+01	0.00E+00	1.36E+01
Zr-95	<1.30E+01	0.00E+00	1.30E+01
Nb-95	<8.80E+00	0.00E+00	8.80E+00
I-131	<9.82E+00	0.00E+00	9.82E+00
Cs-134	<8.85E+00	0.00E+00	8.85E+00
Cs-137	<7.51E+00	0.00E+00	7.51E+00
BaLa-140	<9.89E+00	0.00E+00	9.89E+00
Total-Gam	0.00E+00		
H3SW	<5.72E+01	0.00E+00	1.91E+02

Sample ID: 601097 Sample Dates: 12/19/2023 - 12/19/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.15E+00	0.00E+00	5.15E+00
Co-58	<6.03E+00	0.00E+00	6.03E+00
Fe-59	<9.53E+00	0.00E+00	9.53E+00
Co-60	<5.68E+00	0.00E+00	5.68E+00
Zn-65	<1.13E+01	0.00E+00	1.13E+01
Zr-95	<1.18E+01	0.00E+00	1.18E+01
Nb-95	<6.32E+00	0.00E+00	6.32E+00
I-131	<6.45E+00	0.00E+00	6.45E+00
Cs-134	<6.74E+00	0.00E+00	6.74E+00
Cs-137	<6.06E+00	0.00E+00	6.06E+00
BaLa-140	<4.94E+00	0.00E+00	4.94E+00
Total-Gam	0.00E+00		
H3SW	<1.65E+01	0.00E+00	1.71E+02

Sample Point 496 [INDICATOR - -- @ 0 miles]

Sample ID: 582302 Sample Dates: 1/23/2023 - 1/23/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.95E+00	0.00E+00	6.95E+00
Co-58	<6.29E+00	0.00E+00	6.29E+00
Fe-59	<1.11E+01	0.00E+00	1.11E+01
Co-60	<6.33E+00	0.00E+00	6.33E+00
Zn-65	<1.39E+01	0.00E+00	1.39E+01
Zr-95	<1.12E+01	0.00E+00	1.12E+01
Nb-95	<7.04E+00	0.00E+00	7.04E+00
I-131	<5.35E+00	0.00E+00	5.35E+00
Cs-134	<7.27E+00	0.00E+00	7.27E+00
Cs-137	<6.32E+00	0.00E+00	6.32E+00
BaLa-140	<6.75E+00	0.00E+00	6.75E+00
Total-Gam	0.00E+00		
H3SW	<-5.4E+01	0.00E+00	1.94E+02

Sample ID: 583462 Sample Dates: 2/20/2023 - 2/20/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.50E+00	0.00E+00	6.50E+00
Co-58	<5.21E+00	0.00E+00	5.21E+00
Fe-59	<1.08E+01	0.00E+00	1.08E+01
Co-60	<5.51E+00	0.00E+00	5.51E+00
Zn-65	<7.98E+00	0.00E+00	7.98E+00
Zr-95	<1.17E+01	0.00E+00	1.17E+01
Nb-95	<5.75E+00	0.00E+00	5.75E+00
I-131	<7.79E+00	0.00E+00	7.79E+00
Cs-134	<7.66E+00	0.00E+00	7.66E+00
Cs-137	<5.65E+00	0.00E+00	5.65E+00
BaLa-140	<7.20E+00	0.00E+00	7.20E+00
Total-Gam	0.00E+00		
H3SW	<3.23E+01	0.00E+00	2.02E+02

Sample ID: 585529 Sample Dates: 3/21/2023 - 3/21/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<4.54E+00	0.00E+00	4.54E+00
Co-58	<4.97E+00	0.00E+00	4.97E+00
Fe-59	<5.99E+00	0.00E+00	5.99E+00

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 496 [INDICATOR - -- @ 0 miles]

Sample ID: 585529	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<4.41E+00	0.00E+00	4.41E+00
		Zn-65	<1.01E+01	0.00E+00	1.01E+01
		Zr-95	<7.87E+00	0.00E+00	7.87E+00
		Nb-95	<5.23E+00	0.00E+00	5.23E+00
		I-131	<4.72E+00	0.00E+00	4.72E+00
		Cs-134	<6.48E+00	0.00E+00	6.48E+00
		Cs-137	<4.21E+00	0.00E+00	4.21E+00
		BaLa-140	<5.04E+00	0.00E+00	5.04E+00
		Total-Gam	0.00E+00		
		H3SW	<-8.9E+01	0.00E+00	2.13E+02
Sample ID: 587020	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.53E+00	0.00E+00	6.53E+00
		Co-58	<4.84E+00	0.00E+00	4.84E+00
		Fe-59	<1.23E+01	0.00E+00	1.23E+01
		Co-60	<4.94E+00	0.00E+00	4.94E+00
		Zn-65	<1.70E+01	0.00E+00	1.70E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<5.13E+00	0.00E+00	5.13E+00
		I-131	<6.81E+00	0.00E+00	6.81E+00
		Cs-134	<6.79E+00	0.00E+00	6.79E+00
		Cs-137	<6.24E+00	0.00E+00	6.24E+00
		BaLa-140	<7.17E+00	0.00E+00	7.17E+00
		Total-Gam	0.00E+00		
		H3SW	<-9.8E+00	0.00E+00	1.87E+02
Sample ID: 588553	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.15E+00	0.00E+00	6.15E+00
		Co-58	<5.88E+00	0.00E+00	5.88E+00
		Fe-59	<1.14E+01	0.00E+00	1.14E+01
		Co-60	<5.71E+00	0.00E+00	5.71E+00
		Zn-65	<1.15E+01	0.00E+00	1.15E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<6.31E+00	0.00E+00	6.31E+00
		I-131	<8.44E+00	0.00E+00	8.44E+00
		Cs-134	<6.21E+00	0.00E+00	6.21E+00
		Cs-137	<4.97E+00	0.00E+00	4.97E+00
		BaLa-140	<7.38E+00	0.00E+00	7.38E+00
		Total-Gam	0.00E+00		
		H3SW	<-3.5E+01	0.00E+00	1.84E+02
Sample ID: 590322	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.49E+00	0.00E+00	6.49E+00
		Co-58	<6.52E+00	0.00E+00	6.52E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<6.69E+00	0.00E+00	6.69E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.07E+01	0.00E+00	1.07E+01
		Nb-95	<7.04E+00	0.00E+00	7.04E+00
		I-131	<6.95E+00	0.00E+00	6.95E+00
		Cs-134	<6.89E+00	0.00E+00	6.89E+00
		Cs-137	<5.81E+00	0.00E+00	5.81E+00
		BaLa-140	<6.39E+00	0.00E+00	6.39E+00
		Total-Gam	0.00E+00		
		H3SW	<2.56E+01	0.00E+00	1.80E+02
Sample ID: 591519	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.08E+00	0.00E+00	5.08E+00
		Co-58	<4.88E+00	0.00E+00	4.88E+00
		Fe-59	<9.31E+00	0.00E+00	9.31E+00
		Co-60	<6.86E+00	0.00E+00	6.86E+00
		Zn-65	<1.46E+01	0.00E+00	1.46E+01
		Zr-95	<9.60E+00	0.00E+00	9.60E+00
		Nb-95	<5.01E+00	0.00E+00	5.01E+00
		I-131	<6.16E+00	0.00E+00	6.16E+00
		Cs-134	<5.71E+00	0.00E+00	5.71E+00

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 496 [INDICATOR - -- @ 0 miles]

Sample ID: 591519	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<5.17E+00	0.00E+00	5.17E+00
		BaLa-140	<8.61E+00	0.00E+00	8.61E+00
		Total-Gam	0.00E+00		
		H3SW	<4.22E+01	0.00E+00	1.89E+02
Sample ID: 592826	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.34E+00	0.00E+00	6.34E+00
		Co-58	<5.72E+00	0.00E+00	5.72E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<6.69E+00	0.00E+00	6.69E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<1.07E+01	0.00E+00	1.07E+01
		Nb-95	<7.49E+00	0.00E+00	7.49E+00
		I-131	<7.74E+00	0.00E+00	7.74E+00
		Cs-134	<6.49E+00	0.00E+00	6.49E+00
		Cs-137	<5.81E+00	0.00E+00	5.81E+00
		BaLa-140	<7.98E+00	0.00E+00	7.98E+00
		Total-Gam	0.00E+00		
Sample ID: 594257	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.44E+00	0.00E+00	4.44E+00
		Co-58	<5.76E+00	0.00E+00	5.76E+00
		Fe-59	<8.74E+00	0.00E+00	8.74E+00
		Co-60	<7.64E+00	0.00E+00	7.64E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<1.12E+01	0.00E+00	1.12E+01
		Nb-95	<7.07E+00	0.00E+00	7.07E+00
		I-131	<7.22E+00	0.00E+00	7.22E+00
		Cs-134	<6.03E+00	0.00E+00	6.03E+00
		Cs-137	<6.32E+00	0.00E+00	6.32E+00
		BaLa-140	<7.99E+00	0.00E+00	7.99E+00
		Total-Gam	0.00E+00		
Sample ID: 596466	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.63E+00	0.00E+00	6.63E+00
		Co-58	<7.09E+00	0.00E+00	7.09E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<7.02E+00	0.00E+00	7.02E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<1.09E+01	0.00E+00	1.09E+01
		Nb-95	<7.18E+00	0.00E+00	7.18E+00
		I-131	<6.66E+00	0.00E+00	6.66E+00
		Cs-134	<7.64E+00	0.00E+00	7.64E+00
		Cs-137	<7.50E+00	0.00E+00	7.50E+00
		BaLa-140	<7.36E+00	0.00E+00	7.36E+00
		Total-Gam	0.00E+00		
Sample ID: 598837	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.06E+00	0.00E+00	6.06E+00
		Co-58	<6.70E+00	0.00E+00	6.70E+00
		Fe-59	<1.34E+01	0.00E+00	1.34E+01
		Co-60	<6.24E+00	0.00E+00	6.24E+00
		Zn-65	<1.22E+01	0.00E+00	1.22E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<7.04E+00	0.00E+00	7.04E+00
		I-131	<8.81E+00	0.00E+00	8.81E+00
		Cs-134	<6.79E+00	0.00E+00	6.79E+00
		Cs-137	<5.15E+00	0.00E+00	5.15E+00
		BaLa-140	<6.99E+00	0.00E+00	6.99E+00
		Total-Gam	0.00E+00		
		H3SW	<9.53E+01	0.00E+00	1.91E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 496 [INDICATOR - -- @ 0 miles]

Sample ID: 601098 Sample Dates: 12/19/2023 - 12/19/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.47E+00	0.00E+00	6.47E+00
Co-58	<6.11E+00	0.00E+00	6.11E+00
Fe-59	<1.25E+01	0.00E+00	1.25E+01
Co-60	<3.10E+00	0.00E+00	3.10E+00
Zn-65	<1.39E+01	0.00E+00	1.39E+01
Zr-95	<1.09E+01	0.00E+00	1.09E+01
Nb-95	<7.44E+00	0.00E+00	7.44E+00
I-131	<7.21E+00	0.00E+00	7.21E+00
Cs-134	<5.79E+00	0.00E+00	5.79E+00
Cs-137	<6.48E+00	0.00E+00	6.48E+00
BaLa-140	<7.87E+00	0.00E+00	7.87E+00
Total-Gam	0.00E+00		
H3SW	<6.88E+01	0.00E+00	1.72E+02

Sample Point 497 [INDICATOR - -- @ 0 miles]

Sample ID: 582303 Sample Dates: 1/23/2023 - 1/23/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.76E+00	0.00E+00	5.76E+00
Co-58	<5.18E+00	0.00E+00	5.18E+00
Fe-59	<1.08E+01	0.00E+00	1.08E+01
Co-60	<6.83E+00	0.00E+00	6.83E+00
Zn-65	<1.30E+01	0.00E+00	1.30E+01
Zr-95	<9.68E+00	0.00E+00	9.68E+00
Nb-95	<6.54E+00	0.00E+00	6.54E+00
I-131	<5.96E+00	0.00E+00	5.96E+00
Cs-134	<6.27E+00	0.00E+00	6.27E+00
Cs-137	<4.88E+00	0.00E+00	4.88E+00
BaLa-140	<6.56E+00	0.00E+00	6.56E+00
Total-Gam	0.00E+00		
H3SW	<-3.2E+01	0.00E+00	1.95E+02

Sample ID: 583463 Sample Dates: 2/20/2023 - 2/20/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.07E+00	0.00E+00	6.07E+00
Co-58	<5.00E+00	0.00E+00	5.00E+00
Fe-59	<1.09E+01	0.00E+00	1.09E+01
Co-60	<5.28E+00	0.00E+00	5.28E+00
Zn-65	<1.43E+01	0.00E+00	1.43E+01
Zr-95	<9.72E+00	0.00E+00	9.72E+00
Nb-95	<7.21E+00	0.00E+00	7.21E+00
I-131	<6.19E+00	0.00E+00	6.19E+00
Cs-134	<6.99E+00	0.00E+00	6.99E+00
Cs-137	<5.02E+00	0.00E+00	5.02E+00
BaLa-140	<6.18E+00	0.00E+00	6.18E+00
Total-Gam	0.00E+00		
H3SW	<2.70E+00	0.00E+00	2.02E+02

Sample ID: 585530 Sample Dates: 3/21/2023 - 3/21/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.19E+00	0.00E+00	6.19E+00
Co-58	<6.17E+00	0.00E+00	6.17E+00
Fe-59	<1.11E+01	0.00E+00	1.11E+01
Co-60	<4.55E+00	0.00E+00	4.55E+00
Zn-65	<9.76E+00	0.00E+00	9.76E+00
Zr-95	<1.13E+01	0.00E+00	1.13E+01
Nb-95	<5.45E+00	0.00E+00	5.45E+00
I-131	<6.44E+00	0.00E+00	6.44E+00
Cs-134	<7.72E+00	0.00E+00	7.72E+00
Cs-137	<6.22E+00	0.00E+00	6.22E+00
BaLa-140	<5.21E+00	0.00E+00	5.21E+00
Total-Gam	0.00E+00		
H3SW	<-5.4E+01	0.00E+00	2.13E+02

Sample ID: 587021 Sample Dates: 4/19/2023 - 4/19/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.19E+00	0.00E+00	6.19E+00
Co-58	<7.16E+00	0.00E+00	7.16E+00
Fe-59	<8.77E+00	0.00E+00	8.77E+00

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BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 497 [INDICATOR - -- @ 0 miles]

Sample ID: 587021	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<6.71E+00	0.00E+00	6.71E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<6.82E+00	0.00E+00	6.82E+00
		I-131	<7.22E+00	0.00E+00	7.22E+00
		Cs-134	<5.85E+00	0.00E+00	5.85E+00
		Cs-137	<6.55E+00	0.00E+00	6.55E+00
		BaLa-140	<6.75E+00	0.00E+00	6.75E+00
		Total-Gam	0.00E+00		
		H3SW	<6.13E+01	0.00E+00	1.87E+02
Sample ID: 588554	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.04E+00	0.00E+00	7.04E+00
		Co-58	<4.75E+00	0.00E+00	4.75E+00
		Fe-59	<1.33E+01	0.00E+00	1.33E+01
		Co-60	<6.19E+00	0.00E+00	6.19E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<9.84E+00	0.00E+00	9.84E+00
		Nb-95	<6.05E+00	0.00E+00	6.05E+00
		I-131	<7.33E+00	0.00E+00	7.33E+00
		Cs-134	<6.18E+00	0.00E+00	6.18E+00
		Cs-137	<5.37E+00	0.00E+00	5.37E+00
		BaLa-140	<1.08E+01	0.00E+00	1.08E+01
		Total-Gam	0.00E+00		
		H3SW	<3.29E+01	0.00E+00	1.84E+02
Sample ID: 590323	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.17E+00	0.00E+00	5.17E+00
		Co-58	<4.98E+00	0.00E+00	4.98E+00
		Fe-59	<8.85E+00	0.00E+00	8.85E+00
		Co-60	<6.31E+00	0.00E+00	6.31E+00
		Zn-65	<1.18E+01	0.00E+00	1.18E+01
		Zr-95	<9.42E+00	0.00E+00	9.42E+00
		Nb-95	<7.35E+00	0.00E+00	7.35E+00
		I-131	<6.63E+00	0.00E+00	6.63E+00
		Cs-134	<7.30E+00	0.00E+00	7.30E+00
		Cs-137	<5.46E+00	0.00E+00	5.46E+00
		BaLa-140	<9.38E+00	0.00E+00	9.38E+00
		Total-Gam	0.00E+00		
		H3SW	<3.48E+01	0.00E+00	1.79E+02
Sample ID: 591520	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.15E+00	0.00E+00	6.15E+00
		Co-58	<6.00E+00	0.00E+00	6.00E+00
		Fe-59	<1.35E+01	0.00E+00	1.35E+01
		Co-60	<5.93E+00	0.00E+00	5.93E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<6.73E+00	0.00E+00	6.73E+00
		I-131	<7.30E+00	0.00E+00	7.30E+00
		Cs-134	<6.91E+00	0.00E+00	6.91E+00
		Cs-137	<6.01E+00	0.00E+00	6.01E+00
		BaLa-140	<9.29E+00	0.00E+00	9.29E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.7E+01	0.00E+00	1.88E+02
Sample ID: 592827	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.98E+00	0.00E+00	5.98E+00
		Co-58	<5.55E+00	0.00E+00	5.55E+00
		Fe-59	<9.56E+00	0.00E+00	9.56E+00
		Co-60	<5.79E+00	0.00E+00	5.79E+00
		Zn-65	<1.15E+01	0.00E+00	1.15E+01
		Zr-95	<7.71E+00	0.00E+00	7.71E+00
		Nb-95	<6.95E+00	0.00E+00	6.95E+00
		I-131	<9.05E+00	0.00E+00	9.05E+00
		Cs-134	<6.88E+00	0.00E+00	6.88E+00

EnRad Laboratories

13339 Hagers Ferry Road

Huntersville, North Carolina 28078

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 497 [INDICATOR - -- @ 0 miles]

Sample ID: 592827	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<5.81E+00	0.00E+00	5.81E+00
		BaLa-140	<8.47E+00	0.00E+00	8.47E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.6E+01	0.00E+00	2.09E+02
Sample ID: 594258	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.19E+00	0.00E+00	6.19E+00
		Co-58	<4.74E+00	0.00E+00	4.74E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<6.35E+00	0.00E+00	6.35E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<9.41E+00	0.00E+00	9.41E+00
		Nb-95	<5.48E+00	0.00E+00	5.48E+00
		I-131	<5.57E+00	0.00E+00	5.57E+00
		Cs-134	<7.35E+00	0.00E+00	7.35E+00
		Cs-137	<5.87E+00	0.00E+00	5.87E+00
		BaLa-140	<5.28E+00	0.00E+00	5.28E+00
		Total-Gam	0.00E+00		
Sample ID: 596467	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.65E+00	0.00E+00	6.65E+00
		Co-58	<8.32E+00	0.00E+00	8.32E+00
		Fe-59	<1.41E+01	0.00E+00	1.41E+01
		Co-60	<9.52E+00	0.00E+00	9.52E+00
		Zn-65	<2.09E+01	0.00E+00	2.09E+01
		Zr-95	<7.13E+00	0.00E+00	7.13E+00
		Nb-95	<5.17E+00	0.00E+00	5.17E+00
		I-131	<8.70E+00	0.00E+00	8.70E+00
		Cs-134	<1.03E+01	0.00E+00	1.03E+01
		Cs-137	<7.55E+00	0.00E+00	7.55E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Total-Gam	0.00E+00		
Sample ID: 598838	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.87E+00	0.00E+00	6.87E+00
		Co-58	<4.86E+00	0.00E+00	4.86E+00
		Fe-59	<1.46E+01	0.00E+00	1.46E+01
		Co-60	<4.84E+00	0.00E+00	4.84E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<6.56E+00	0.00E+00	6.56E+00
		I-131	<7.81E+00	0.00E+00	7.81E+00
		Cs-134	<7.00E+00	0.00E+00	7.00E+00
		Cs-137	<6.37E+00	0.00E+00	6.37E+00
		BaLa-140	<8.24E+00	0.00E+00	8.24E+00
		Total-Gam	0.00E+00		
Sample ID: 601099	Sample Dates: 12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.19E+00	0.00E+00	5.19E+00
		Co-58	<5.56E+00	0.00E+00	5.56E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<4.92E+00	0.00E+00	4.92E+00
		Zn-65	<1.20E+01	0.00E+00	1.20E+01
		Zr-95	<9.00E+00	0.00E+00	9.00E+00
		Nb-95	<5.75E+00	0.00E+00	5.75E+00
		I-131	<6.41E+00	0.00E+00	6.41E+00
		Cs-134	<6.67E+00	0.00E+00	6.67E+00
		Cs-137	<4.21E+00	0.00E+00	4.21E+00
		BaLa-140	<7.12E+00	0.00E+00	7.12E+00
		Total-Gam	0.00E+00		
		H3SW	<3.79E+01	0.00E+00	1.72E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 498 [INDICATOR - -- @ 0 miles]

Sample ID: 582304	Sample Dates: 1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.19E+00	0.00E+00	6.19E+00
		Co-58	<5.41E+00	0.00E+00	5.41E+00
		Fe-59	<1.06E+01	0.00E+00	1.06E+01
		Co-60	<5.55E+00	0.00E+00	5.55E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.16E+01	0.00E+00	1.16E+01
		Nb-95	<6.36E+00	0.00E+00	6.36E+00
		I-131	<7.00E+00	0.00E+00	7.00E+00
		Cs-134	<5.59E+00	0.00E+00	5.59E+00
		Cs-137	<5.09E+00	0.00E+00	5.09E+00
		BaLa-140	<1.53E+00	0.00E+00	1.53E+00
		Total-Gam	0.00E+00		
		H3SW	<0.00E+00	0.00E+00	1.94E+02
Sample ID: 583464	Sample Dates: 2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.39E+00	0.00E+00	5.39E+00
		Co-58	<7.35E+00	0.00E+00	7.35E+00
		Fe-59	<1.13E+01	0.00E+00	1.13E+01
		Co-60	<6.99E+00	0.00E+00	6.99E+00
		Zn-65	<1.78E+01	0.00E+00	1.78E+01
		Zr-95	<9.47E+00	0.00E+00	9.47E+00
		Nb-95	<6.80E+00	0.00E+00	6.80E+00
		I-131	<8.75E+00	0.00E+00	8.75E+00
		Cs-134	<7.30E+00	0.00E+00	7.30E+00
		Cs-137	<7.27E+00	0.00E+00	7.27E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Total-Gam	0.00E+00		
		H3SW	<0.00E+00	0.00E+00	2.02E+02
Sample ID: 585531	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.11E+00	0.00E+00	7.11E+00
		Co-58	<6.63E+00	0.00E+00	6.63E+00
		Fe-59	<9.96E+00	0.00E+00	9.96E+00
		Co-60	<5.04E+00	0.00E+00	5.04E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.09E+01	0.00E+00	1.09E+01
		Nb-95	<5.41E+00	0.00E+00	5.41E+00
		I-131	<5.80E+00	0.00E+00	5.80E+00
		Cs-134	<7.47E+00	0.00E+00	7.47E+00
		Cs-137	<4.60E+00	0.00E+00	4.60E+00
		BaLa-140	<7.30E+00	0.00E+00	7.30E+00
		Total-Gam	0.00E+00		
		H3SW	<1.35E+01	0.00E+00	2.13E+02
Sample ID: 587022	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.77E+00	0.00E+00	4.77E+00
		Co-58	<4.29E+00	0.00E+00	4.29E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<6.50E+00	0.00E+00	6.50E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<6.51E+00	0.00E+00	6.51E+00
		Nb-95	<5.59E+00	0.00E+00	5.59E+00
		I-131	<6.25E+00	0.00E+00	6.25E+00
		Cs-134	<6.48E+00	0.00E+00	6.48E+00
		Cs-137	<6.29E+00	0.00E+00	6.29E+00
		BaLa-140	<6.55E+00	0.00E+00	6.55E+00
		Total-Gam	0.00E+00		
		H3SW	<-2.5E+00	0.00E+00	1.88E+02
Sample ID: 588555	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.45E+00	0.00E+00	5.45E+00
		Co-58	<5.35E+00	0.00E+00	5.35E+00
		Fe-59	<9.91E+00	0.00E+00	9.91E+00
		Co-60	<6.36E+00	0.00E+00	6.36E+00
		Zn-65	<1.13E+01	0.00E+00	1.13E+01
		Zr-95	<8.04E+00	0.00E+00	8.04E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 498 [INDICATOR - -- @ 0 miles]

Sample ID: 588555	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<5.14E+00	0.00E+00	5.14E+00
		I-131	<7.32E+00	0.00E+00	7.32E+00
		Cs-134	<7.18E+00	0.00E+00	7.18E+00
		Cs-137	<5.87E+00	0.00E+00	5.87E+00
		BaLa-140	<1.80E+00	0.00E+00	1.80E+00
		Total-Gam	0.00E+00		
		H3SW	<4.44E+01	0.00E+00	1.84E+02
Sample ID: 590324	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.99E+00	0.00E+00	4.99E+00
		Co-58	<5.02E+00	0.00E+00	5.02E+00
		Fe-59	<1.39E+01	0.00E+00	1.39E+01
		Co-60	<5.31E+00	0.00E+00	5.31E+00
		Zn-65	<1.52E+01	0.00E+00	1.52E+01
		Zr-95	<1.24E+01	0.00E+00	1.24E+01
		Nb-95	<7.16E+00	0.00E+00	7.16E+00
		I-131	<7.08E+00	0.00E+00	7.08E+00
		Cs-134	<4.63E+00	0.00E+00	4.63E+00
		Cs-137	<5.97E+00	0.00E+00	5.97E+00
		BaLa-140	<4.59E+00	0.00E+00	4.59E+00
		Total-Gam	0.00E+00		
		H3SW	<3.01E+01	0.00E+00	1.79E+02
Sample ID: 591521	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.38E+00	0.00E+00	6.38E+00
		Co-58	<5.85E+00	0.00E+00	5.85E+00
		Fe-59	<1.13E+01	0.00E+00	1.13E+01
		Co-60	<7.05E+00	0.00E+00	7.05E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<5.55E+00	0.00E+00	5.55E+00
		I-131	<5.78E+00	0.00E+00	5.78E+00
		Cs-134	<5.60E+00	0.00E+00	5.60E+00
		Cs-137	<6.71E+00	0.00E+00	6.71E+00
		BaLa-140	<8.32E+00	0.00E+00	8.32E+00
		Total-Gam	0.00E+00		
		H3SW	<9.39E+01	0.00E+00	1.88E+02
Sample ID: 592828	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.01E+00	0.00E+00	5.01E+00
		Co-58	<4.87E+00	0.00E+00	4.87E+00
		Fe-59	<1.06E+01	0.00E+00	1.06E+01
		Co-60	<7.68E+00	0.00E+00	7.68E+00
		Zn-65	<1.25E+01	0.00E+00	1.25E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<6.39E+00	0.00E+00	6.39E+00
		I-131	<9.23E+00	0.00E+00	9.23E+00
		Cs-134	<6.77E+00	0.00E+00	6.77E+00
		Cs-137	<5.87E+00	0.00E+00	5.87E+00
		BaLa-140	<8.01E+00	0.00E+00	8.01E+00
		Total-Gam	0.00E+00		
		H3SW	<8.09E+00	0.00E+00	2.09E+02
Sample ID: 594259	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.48E+00	0.00E+00	5.48E+00
		Co-58	<4.85E+00	0.00E+00	4.85E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<7.17E+00	0.00E+00	7.17E+00
		Zn-65	<1.32E+01	0.00E+00	1.32E+01
		Zr-95	<9.19E+00	0.00E+00	9.19E+00
		Nb-95	<6.38E+00	0.00E+00	6.38E+00
		I-131	<6.46E+00	0.00E+00	6.46E+00
		Cs-134	<5.94E+00	0.00E+00	5.94E+00
		Cs-137	<5.37E+00	0.00E+00	5.37E+00
		BaLa-140	<5.96E+00	0.00E+00	5.96E+00
		Total-Gam	0.00E+00		

EnRad Laboratories

13339 Hagers Ferry Road

Huntersville, North Carolina 28078

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 498 [INDICATOR - -- @ 0 miles]

Sample ID: 594259	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.61E+01	0.00E+00	1.97E+02
Sample ID: 596468	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.61E+00	0.00E+00	6.61E+00
		Co-58	<5.76E+00	0.00E+00	5.76E+00
		Fe-59	<1.56E+01	0.00E+00	1.56E+01
		Co-60	<1.04E+01	0.00E+00	1.04E+01
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<1.21E+01	0.00E+00	1.21E+01
		Nb-95	<7.46E+00	0.00E+00	7.46E+00
		I-131	<9.32E+00	0.00E+00	9.32E+00
		Cs-134	<7.86E+00	0.00E+00	7.86E+00
		Cs-137	<7.51E+00	0.00E+00	7.51E+00
		BaLa-140	<7.70E+00	0.00E+00	7.70E+00
		Total-Gam	0.00E+00		
Sample ID: 598839	Sample Dates: 11/16/2023 - 11/16/2023	H3SW	<2.94E+01	0.00E+00	1.79E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.68E+00	0.00E+00	6.68E+00
		Co-58	<7.30E+00	0.00E+00	7.30E+00
		Fe-59	<1.31E+01	0.00E+00	1.31E+01
		Co-60	<7.65E+00	0.00E+00	7.65E+00
		Zn-65	<1.18E+01	0.00E+00	1.18E+01
		Zr-95	<1.16E+01	0.00E+00	1.16E+01
		Nb-95	<7.62E+00	0.00E+00	7.62E+00
		I-131	<9.65E+00	0.00E+00	9.65E+00
		Cs-134	<6.70E+00	0.00E+00	6.70E+00
		Cs-137	<7.37E+00	0.00E+00	7.37E+00
		BaLa-140	<7.93E+00	0.00E+00	7.93E+00
Sample ID: 601100	Sample Dates: 12/19/2023 - 12/19/2023	Total-Gam	0.00E+00		
		H3SW	<2.72E+00	0.00E+00	1.91E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.25E+00	0.00E+00	5.25E+00
		Co-58	<6.41E+00	0.00E+00	6.41E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<7.16E+00	0.00E+00	7.16E+00
		Zn-65	<1.20E+01	0.00E+00	1.20E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<5.30E+00	0.00E+00	5.30E+00
		I-131	<6.35E+00	0.00E+00	6.35E+00
		Cs-134	<5.65E+00	0.00E+00	5.65E+00
		Cs-137	<5.14E+00	0.00E+00	5.14E+00
Sample Point 499 [CONTROL - -- @ 0 miles]		BaLa-140	<6.14E+00	0.00E+00	6.14E+00
		Total-Gam	0.00E+00		
Sample ID: 582305	Sample Dates: 1/23/2023 - 1/23/2023	H3SW	<1.22E+02	0.00E+00	1.71E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.54E+00	0.00E+00	6.54E+00
		Co-58	<4.85E+00	0.00E+00	4.85E+00
		Fe-59	<9.79E+00	0.00E+00	9.79E+00
		Co-60	<6.18E+00	0.00E+00	6.18E+00
		Zn-65	<1.15E+01	0.00E+00	1.15E+01
		Zr-95	<8.81E+00	0.00E+00	8.81E+00
		Nb-95	<6.20E+00	0.00E+00	6.20E+00
		I-131	<6.76E+00	0.00E+00	6.76E+00
		Cs-134	<5.46E+00	0.00E+00	5.46E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<7.20E+00	0.00E+00	7.20E+00
		Total-Gam	0.00E+00		
		H3SW	<6.3E+01	0.00E+00	1.93E+02

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 499 [CONTROL - -- @ 0 miles]

Sample ID: 583465	Sample Dates: 2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.69E+00	0.00E+00	5.69E+00
		Co-58	<5.92E+00	0.00E+00	5.92E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<5.81E+00	0.00E+00	5.81E+00
		Zn-65	<1.55E+01	0.00E+00	1.55E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<5.47E+00	0.00E+00	5.47E+00
		I-131	<7.96E+00	0.00E+00	7.96E+00
		Cs-134	<5.71E+00	0.00E+00	5.71E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<4.33E+00	0.00E+00	4.33E+00
		Total-Gam	0.00E+00		
		H3SW	<1.08E+01	0.00E+00	2.03E+02
Sample ID: 585532	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.34E+00	0.00E+00	5.34E+00
		Co-58	<5.87E+00	0.00E+00	5.87E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<7.02E+00	0.00E+00	7.02E+00
		Zn-65	<1.63E+01	0.00E+00	1.63E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<5.36E+00	0.00E+00	5.36E+00
		I-131	<5.59E+00	0.00E+00	5.59E+00
		Cs-134	<7.50E+00	0.00E+00	7.50E+00
		Cs-137	<3.33E+00	0.00E+00	3.33E+00
		BaLa-140	<6.97E+00	0.00E+00	6.97E+00
		Total-Gam	0.00E+00		
		H3SW	<-8.9E+01	0.00E+00	2.13E+02
Sample ID: 587023	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.67E+00	0.00E+00	6.67E+00
		Co-58	<6.04E+00	0.00E+00	6.04E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<6.39E+00	0.00E+00	6.39E+00
		Zn-65	<1.47E+01	0.00E+00	1.47E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<7.02E+00	0.00E+00	7.02E+00
		I-131	<6.66E+00	0.00E+00	6.66E+00
		Cs-134	<7.50E+00	0.00E+00	7.50E+00
		Cs-137	<5.02E+00	0.00E+00	5.02E+00
		BaLa-140	<8.46E+00	0.00E+00	8.46E+00
		Total-Gam	0.00E+00		
		H3SW	<1.33E+02	0.00E+00	1.88E+02
Sample ID: 588556	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.23E+00	0.00E+00	5.23E+00
		Co-58	<5.54E+00	0.00E+00	5.54E+00
		Fe-59	<9.56E+00	0.00E+00	9.56E+00
		Co-60	<6.51E+00	0.00E+00	6.51E+00
		Zn-65	<1.26E+01	0.00E+00	1.26E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<6.47E+00	0.00E+00	6.47E+00
		I-131	<9.38E+00	0.00E+00	9.38E+00
		Cs-134	<5.86E+00	0.00E+00	5.86E+00
		Cs-137	<5.28E+00	0.00E+00	5.28E+00
		BaLa-140	<8.45E+00	0.00E+00	8.45E+00
		Total-Gam	0.00E+00		
		H3SW	<3.99E+01	0.00E+00	1.84E+02
Sample ID: 590325	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.99E+00	0.00E+00	4.99E+00
		Co-58	<7.08E+00	0.00E+00	7.08E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<4.56E+00	0.00E+00	4.56E+00
		Zn-65	<1.46E+01	0.00E+00	1.46E+01
		Zr-95	<8.73E+00	0.00E+00	8.73E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 499 [CONTROL - -- @ 0 miles]

Sample ID: 590325	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<6.31E+00	0.00E+00	6.31E+00
		I-131	<6.00E+00	0.00E+00	6.00E+00
		Cs-134	<6.33E+00	0.00E+00	6.33E+00
		Cs-137	<6.05E+00	0.00E+00	6.05E+00
		BaLa-140	<7.81E+00	0.00E+00	7.81E+00
		Total-Gam	0.00E+00		
		H3SW	<-2.4E+00	0.00E+00	1.82E+02
Sample ID: 591522	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.20E+00	0.00E+00	5.20E+00
		Co-58	<3.78E+00	0.00E+00	3.78E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<5.38E+00	0.00E+00	5.38E+00
		Zn-65	<1.49E+01	0.00E+00	1.49E+01
		Zr-95	<8.35E+00	0.00E+00	8.35E+00
		Nb-95	<5.32E+00	0.00E+00	5.32E+00
		I-131	<6.62E+00	0.00E+00	6.62E+00
		Cs-134	<7.74E+00	0.00E+00	7.74E+00
		Cs-137	<6.13E+00	0.00E+00	6.13E+00
		BaLa-140	<6.14E+00	0.00E+00	6.14E+00
		Total-Gam	0.00E+00		
		H3SW	<3.72E+01	0.00E+00	1.89E+02
Sample ID: 592829	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.11E+00	0.00E+00	5.11E+00
		Co-58	<6.03E+00	0.00E+00	6.03E+00
		Fe-59	<1.33E+01	0.00E+00	1.33E+01
		Co-60	<4.95E+00	0.00E+00	4.95E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<8.71E+00	0.00E+00	8.71E+00
		Nb-95	<5.86E+00	0.00E+00	5.86E+00
		I-131	<7.62E+00	0.00E+00	7.62E+00
		Cs-134	<5.47E+00	0.00E+00	5.47E+00
		Cs-137	<6.25E+00	0.00E+00	6.25E+00
		BaLa-140	<8.49E+00	0.00E+00	8.49E+00
		Total-Gam	0.00E+00		
		H3SW	<-1.1E+02	0.00E+00	2.08E+02
Sample ID: 594260	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.12E+00	0.00E+00	6.12E+00
		Co-58	<4.11E+00	0.00E+00	4.11E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<4.10E+00	0.00E+00	4.10E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<1.03E+01	0.00E+00	1.03E+01
		Nb-95	<6.34E+00	0.00E+00	6.34E+00
		I-131	<6.88E+00	0.00E+00	6.88E+00
		Cs-134	<5.88E+00	0.00E+00	5.88E+00
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<7.14E+00	0.00E+00	7.14E+00
		Total-Gam	0.00E+00		
		H3SW	<-5.4E+01	0.00E+00	1.98E+02
Sample ID: 596469	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.06E+00	0.00E+00	7.06E+00
		Co-58	<7.45E+00	0.00E+00	7.45E+00
		Fe-59	<1.38E+01	0.00E+00	1.38E+01
		Co-60	<7.96E+00	0.00E+00	7.96E+00
		Zn-65	<1.53E+01	0.00E+00	1.53E+01
		Zr-95	<9.80E+00	0.00E+00	9.80E+00
		Nb-95	<1.07E+01	0.00E+00	1.07E+01
		I-131	<8.47E+00	0.00E+00	8.47E+00
		Cs-134	<9.59E+00	0.00E+00	9.59E+00
		Cs-137	<8.33E+00	0.00E+00	8.33E+00
		BaLa-140	<8.19E+00	0.00E+00	8.19E+00
		Total-Gam	0.00E+00		

EnRad Laboratories

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 499 [CONTROL - -- @ 0 miles]

Sample ID: 596469	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.97E+01	0.00E+00	1.81E+02
Sample ID: 598840	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.43E+00	0.00E+00	5.43E+00
		Co-58	<4.90E+00	0.00E+00	4.90E+00
		Fe-59	<8.87E+00	0.00E+00	8.87E+00
		Co-60	<3.81E+00	0.00E+00	3.81E+00
		Zn-65	<1.02E+01	0.00E+00	1.02E+01
		Zr-95	<8.93E+00	0.00E+00	8.93E+00
		Nb-95	<5.75E+00	0.00E+00	5.75E+00
		I-131	<7.40E+00	0.00E+00	7.40E+00
		Cs-134	<5.86E+00	0.00E+00	5.86E+00
		Cs-137	<5.97E+00	0.00E+00	5.97E+00
		BaLa-140	<4.72E+00	0.00E+00	4.72E+00
Sample ID: 601101	Sample Dates: 12/19/2023 - 12/19/2023	Total-Gam	0.00E+00		
		H3SW	<5.20E+01	0.00E+00	1.92E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.68E+00	0.00E+00	5.68E+00
		Co-58	<5.47E+00	0.00E+00	5.47E+00
		Fe-59	<1.27E+01	0.00E+00	1.27E+01
		Co-60	<7.17E+00	0.00E+00	7.17E+00
		Zn-65	<1.31E+01	0.00E+00	1.31E+01
		Zr-95	<8.41E+00	0.00E+00	8.41E+00
		Nb-95	<6.02E+00	0.00E+00	6.02E+00
		I-131	<5.78E+00	0.00E+00	5.78E+00
		Cs-134	<5.46E+00	0.00E+00	5.46E+00
Sample Point 604 [INDICATOR - -- @ 0 miles]		Cs-137	<5.74E+00	0.00E+00	5.74E+00
		BaLa-140	<6.54E+00	0.00E+00	6.54E+00
		Total-Gam	0.00E+00		
		H3SW	<4.76E+00	0.00E+00	1.73E+02

Sample ID: 582306	Sample Dates: 1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.12E+00	0.00E+00	7.12E+00
		Co-58	<7.11E+00	0.00E+00	7.11E+00
		Fe-59	<1.16E+01	0.00E+00	1.16E+01
		Co-60	<7.61E+00	0.00E+00	7.61E+00
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<1.18E+01	0.00E+00	1.18E+01
		Nb-95	<5.62E+00	0.00E+00	5.62E+00
		I-131	<6.75E+00	0.00E+00	6.75E+00
		Cs-134	<6.70E+00	0.00E+00	6.70E+00
		Cs-137	<6.52E+00	0.00E+00	6.52E+00
		BaLa-140	<8.41E+00	0.00E+00	8.41E+00
Sample ID: 583466	Sample Dates: 2/20/2023 - 2/20/2023	Total-Gam	0.00E+00		
		H3SW	<7.84E+01	0.00E+00	1.95E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.89E+00	0.00E+00	6.89E+00
		Co-58	<6.18E+00	0.00E+00	6.18E+00
		Fe-59	<1.14E+01	0.00E+00	1.14E+01
		Co-60	<6.24E+00	0.00E+00	6.24E+00
		Zn-65	<1.47E+01	0.00E+00	1.47E+01
		Zr-95	<1.00E+01	0.00E+00	1.00E+01
		Nb-95	<8.28E+00	0.00E+00	8.28E+00
		I-131	<7.85E+00	0.00E+00	7.85E+00
		Cs-134	<6.65E+00	0.00E+00	6.65E+00
		Cs-137	<7.21E+00	0.00E+00	7.21E+00
		BaLa-140	<7.61E+00	0.00E+00	7.61E+00
		Total-Gam	0.00E+00		
		H3SW	<1.27E+02	0.00E+00	2.03E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 604 [INDICATOR - -- @ 0 miles]

Sample ID: 585533	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.06E+00	0.00E+00	5.06E+00
		Co-58	<5.05E+00	0.00E+00	5.05E+00
		Fe-59	<6.35E+00	0.00E+00	6.35E+00
		Co-60	<5.70E+00	0.00E+00	5.70E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<9.55E+00	0.00E+00	9.55E+00
		Nb-95	<4.91E+00	0.00E+00	4.91E+00
		I-131	<5.18E+00	0.00E+00	5.18E+00
		Cs-134	<5.42E+00	0.00E+00	5.42E+00
		Cs-137	<5.61E+00	0.00E+00	5.61E+00
		BaLa-140	<5.36E+00	0.00E+00	5.36E+00
		Total-Gam	0.00E+00		
		H3SW	<3.54E+01	0.00E+00	2.14E+02
Sample ID: 587024	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.95E+00	0.00E+00	5.95E+00
		Co-58	<5.14E+00	0.00E+00	5.14E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<7.02E+00	0.00E+00	7.02E+00
		Zn-65	<1.11E+01	0.00E+00	1.11E+01
		Zr-95	<8.54E+00	0.00E+00	8.54E+00
		Nb-95	<6.60E+00	0.00E+00	6.60E+00
		I-131	<6.24E+00	0.00E+00	6.24E+00
		Cs-134	<7.98E+00	0.00E+00	7.98E+00
		Cs-137	<6.64E+00	0.00E+00	6.64E+00
		BaLa-140	<5.21E+00	0.00E+00	5.21E+00
		Total-Gam	0.00E+00		
		H3SW	<5.17E+01	0.00E+00	1.88E+02
Sample ID: 588557	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.40E+00	0.00E+00	5.40E+00
		Co-58	<6.83E+00	0.00E+00	6.83E+00
		Fe-59	<9.15E+00	0.00E+00	9.15E+00
		Co-60	<6.69E+00	0.00E+00	6.69E+00
		Zn-65	<1.45E+01	0.00E+00	1.45E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<7.33E+00	0.00E+00	7.33E+00
		I-131	<9.18E+00	0.00E+00	9.18E+00
		Cs-134	<6.70E+00	0.00E+00	6.70E+00
		Cs-137	<7.09E+00	0.00E+00	7.09E+00
		BaLa-140	<9.97E+00	0.00E+00	9.97E+00
		Total-Gam	0.00E+00		
		H3SW	<9.86E+01	0.00E+00	1.84E+02
Sample ID: 590326	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.77E+00	0.00E+00	5.77E+00
		Co-58	<5.44E+00	0.00E+00	5.44E+00
		Fe-59	<1.14E+01	0.00E+00	1.14E+01
		Co-60	<3.81E+00	0.00E+00	3.81E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<9.79E+00	0.00E+00	9.79E+00
		Nb-95	<5.71E+00	0.00E+00	5.71E+00
		I-131	<6.86E+00	0.00E+00	6.86E+00
		Cs-134	<5.37E+00	0.00E+00	5.37E+00
		Cs-137	<5.08E+00	0.00E+00	5.08E+00
		BaLa-140	<6.22E+00	0.00E+00	6.22E+00
		Total-Gam	0.00E+00		
		H3SW	<1.09E+02	0.00E+00	1.80E+02
Sample ID: 591523	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.41E+00	0.00E+00	7.41E+00
		Co-58	<6.68E+00	0.00E+00	6.68E+00
		Fe-59	<1.27E+01	0.00E+00	1.27E+01
		Co-60	<6.69E+00	0.00E+00	6.69E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 604 [INDICATOR - -- @ 0 miles]

Sample ID: 591523	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<7.45E+00	0.00E+00	7.45E+00
		I-131	<6.84E+00	0.00E+00	6.84E+00
		Cs-134	<7.46E+00	0.00E+00	7.46E+00
		Cs-137	<6.79E+00	0.00E+00	6.79E+00
		BaLa-140	<7.71E+00	0.00E+00	7.71E+00
		Total-Gam	0.00E+00		
		H3SW	<1.24E+02	0.00E+00	1.89E+02
Sample ID: 592830	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.82E+00	0.00E+00	5.82E+00
		Co-58	<5.97E+00	0.00E+00	5.97E+00
		Fe-59	<9.23E+00	0.00E+00	9.23E+00
		Co-60	<7.33E+00	0.00E+00	7.33E+00
		Zn-65	<1.12E+01	0.00E+00	1.12E+01
		Zr-95	<1.23E+01	0.00E+00	1.23E+01
		Nb-95	<5.40E+00	0.00E+00	5.40E+00
		I-131	<8.68E+00	0.00E+00	8.68E+00
		Cs-134	<8.83E+00	0.00E+00	8.83E+00
		Cs-137	<5.46E+00	0.00E+00	5.46E+00
		BaLa-140	<8.99E+00	0.00E+00	8.99E+00
		Total-Gam	0.00E+00		
		H3SW	2.40E+02	1.29E+02	2.09E+02
Sample ID: 594261	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.96E+00	0.00E+00	5.96E+00
		Co-58	<5.58E+00	0.00E+00	5.58E+00
		Fe-59	<1.30E+01	0.00E+00	1.30E+01
		Co-60	<7.31E+00	0.00E+00	7.31E+00
		Zn-65	<1.34E+01	0.00E+00	1.34E+01
		Zr-95	<1.00E+01	0.00E+00	1.00E+01
		Nb-95	<7.24E+00	0.00E+00	7.24E+00
		I-131	<6.92E+00	0.00E+00	6.92E+00
		Cs-134	<7.11E+00	0.00E+00	7.11E+00
		Cs-137	<5.27E+00	0.00E+00	5.27E+00
		BaLa-140	<8.47E+00	0.00E+00	8.47E+00
		Total-Gam	0.00E+00		
		H3SW	<7.79E+01	0.00E+00	1.97E+02
Sample ID: 596470	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.49E+00	0.00E+00	6.49E+00
		Co-58	<7.55E+00	0.00E+00	7.55E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<6.30E+00	0.00E+00	6.30E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<1.18E+01	0.00E+00	1.18E+01
		Nb-95	<7.62E+00	0.00E+00	7.62E+00
		I-131	<6.53E+00	0.00E+00	6.53E+00
		Cs-134	<7.84E+00	0.00E+00	7.84E+00
		Cs-137	<6.19E+00	0.00E+00	6.19E+00
		BaLa-140	<7.89E+00	0.00E+00	7.89E+00
		Total-Gam	0.00E+00		
		H3SW	<2.45E+00	0.00E+00	1.79E+02
Sample ID: 598841	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.91E+00	0.00E+00	5.91E+00
		Co-58	<6.95E+00	0.00E+00	6.95E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<5.64E+00	0.00E+00	5.64E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<6.44E+00	0.00E+00	6.44E+00
		I-131	<9.18E+00	0.00E+00	9.18E+00
		Cs-134	<7.99E+00	0.00E+00	7.99E+00
		Cs-137	<4.91E+00	0.00E+00	4.91E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Total-Gam	0.00E+00		

EnRad Laboratories

13339 Hagers Ferry Road

Huntersville, North Carolina 28078

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 604 [INDICATOR - -- @ 0 miles]

Sample ID: 598841	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.35E+01	0.00E+00	1.91E+02
Sample ID: 601102	Sample Dates: 12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.31E+00	0.00E+00	6.31E+00
		Co-58	<5.68E+00	0.00E+00	5.68E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<7.37E+00	0.00E+00	7.37E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<9.48E+00	0.00E+00	9.48E+00
		Nb-95	<6.12E+00	0.00E+00	6.12E+00
		I-131	<6.52E+00	0.00E+00	6.52E+00
		Cs-134	<6.64E+00	0.00E+00	6.64E+00
		Cs-137	<5.77E+00	0.00E+00	5.77E+00
		BaLa-140	<7.04E+00	0.00E+00	7.04E+00
		Total-Gam	0.00E+00		
		H3SW	<1.06E+02	0.00E+00	1.72E+02

Sample Point 607 [INDICATOR - -- @ 0 miles]

Sample ID: 582307	Sample Dates: 1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.91E+00	0.00E+00	5.91E+00
		Co-58	<5.69E+00	0.00E+00	5.69E+00
		Fe-59	<1.27E+01	0.00E+00	1.27E+01
		Co-60	<5.31E+00	0.00E+00	5.31E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.16E+01	0.00E+00	1.16E+01
		Nb-95	<8.34E+00	0.00E+00	8.34E+00
		I-131	<5.93E+00	0.00E+00	5.93E+00
		Cs-134	<6.40E+00	0.00E+00	6.40E+00
		Cs-137	<7.21E+00	0.00E+00	7.21E+00
		BaLa-140	<7.74E+00	0.00E+00	7.74E+00
		Total-Gam	0.00E+00		
		H3SW	<2.7E+01	0.00E+00	1.95E+02

Sample ID: 583467	Sample Dates: 2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.00E+00	0.00E+00	5.00E+00
		Co-58	<5.64E+00	0.00E+00	5.64E+00
		Fe-59	<9.30E+00	0.00E+00	9.30E+00
		Co-60	<6.16E+00	0.00E+00	6.16E+00
		Zn-65	<1.02E+01	0.00E+00	1.02E+01
		Zr-95	<8.00E+00	0.00E+00	8.00E+00
		Nb-95	<4.98E+00	0.00E+00	4.98E+00
		I-131	<6.44E+00	0.00E+00	6.44E+00
		Cs-134	<6.68E+00	0.00E+00	6.68E+00
		Cs-137	<5.28E+00	0.00E+00	5.28E+00
		BaLa-140	<6.32E+00	0.00E+00	6.32E+00
		Total-Gam	0.00E+00		
		H3SW	<3.23E+01	0.00E+00	2.02E+02

Sample ID: 585534	Sample Dates: 3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.26E+00	0.00E+00	3.26E+00
		Co-58	<3.87E+00	0.00E+00	3.87E+00
		Fe-59	<6.99E+00	0.00E+00	6.99E+00
		Co-60	<3.65E+00	0.00E+00	3.65E+00
		Zn-65	<7.57E+00	0.00E+00	7.57E+00
		Zr-95	<7.04E+00	0.00E+00	7.04E+00
		Nb-95	<4.43E+00	0.00E+00	4.43E+00
		I-131	<3.77E+00	0.00E+00	3.77E+00
		Cs-134	<4.36E+00	0.00E+00	4.36E+00
		Cs-137	<3.53E+00	0.00E+00	3.53E+00
		BaLa-140	<5.05E+00	0.00E+00	5.05E+00
		Total-Gam	0.00E+00		
		H3SW	<4.9E+01	0.00E+00	2.13E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 607 [INDICATOR - -- @ 0 miles]

Sample ID: 587025	Sample Dates: 4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.11E+00	0.00E+00	7.11E+00
		Co-58	<7.25E+00	0.00E+00	7.25E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<7.62E+00	0.00E+00	7.62E+00
		Zn-65	<1.39E+01	0.00E+00	1.39E+01
		Zr-95	<1.33E+01	0.00E+00	1.33E+01
		Nb-95	<7.47E+00	0.00E+00	7.47E+00
		I-131	<6.05E+00	0.00E+00	6.05E+00
		Cs-134	<7.29E+00	0.00E+00	7.29E+00
		Cs-137	<6.66E+00	0.00E+00	6.66E+00
		BaLa-140	<6.70E+00	0.00E+00	6.70E+00
		Total-Gam	0.00E+00		
		H3SW	<9.56E+01	0.00E+00	1.87E+02
Sample ID: 588558	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.18E+00	0.00E+00	5.18E+00
		Co-58	<6.05E+00	0.00E+00	6.05E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<5.29E+00	0.00E+00	5.29E+00
		Zn-65	<1.19E+01	0.00E+00	1.19E+01
		Zr-95	<8.86E+00	0.00E+00	8.86E+00
		Nb-95	<6.89E+00	0.00E+00	6.89E+00
		I-131	<7.50E+00	0.00E+00	7.50E+00
		Cs-134	<6.23E+00	0.00E+00	6.23E+00
		Cs-137	<5.74E+00	0.00E+00	5.74E+00
		BaLa-140	<4.65E+00	0.00E+00	4.65E+00
		Total-Gam	0.00E+00		
		H3SW	<9.35E+00	0.00E+00	1.84E+02
Sample ID: 590327	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.54E+00	0.00E+00	5.54E+00
		Co-58	<5.39E+00	0.00E+00	5.39E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<5.28E+00	0.00E+00	5.28E+00
		Zn-65	<1.00E+01	0.00E+00	1.00E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<6.62E+00	0.00E+00	6.62E+00
		I-131	<6.62E+00	0.00E+00	6.62E+00
		Cs-134	<7.51E+00	0.00E+00	7.51E+00
		Cs-137	<5.40E+00	0.00E+00	5.40E+00
		BaLa-140	<7.42E+00	0.00E+00	7.42E+00
		Total-Gam	0.00E+00		
		H3SW	<4.66E+00	0.00E+00	1.80E+02
Sample ID: 591524	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.16E+00	0.00E+00	5.16E+00
		Co-58	<5.75E+00	0.00E+00	5.75E+00
		Fe-59	<1.26E+01	0.00E+00	1.26E+01
		Co-60	<5.68E+00	0.00E+00	5.68E+00
		Zn-65	<1.29E+01	0.00E+00	1.29E+01
		Zr-95	<9.35E+00	0.00E+00	9.35E+00
		Nb-95	<6.88E+00	0.00E+00	6.88E+00
		I-131	<7.01E+00	0.00E+00	7.01E+00
		Cs-134	<5.79E+00	0.00E+00	5.79E+00
		Cs-137	<4.16E+00	0.00E+00	4.16E+00
		BaLa-140	<6.03E+00	0.00E+00	6.03E+00
		Total-Gam	0.00E+00		
		H3SW	<5.68E+01	0.00E+00	1.88E+02
Sample ID: 592831	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.58E+00	0.00E+00	5.58E+00
		Co-58	<6.43E+00	0.00E+00	6.43E+00
		Fe-59	<1.18E+01	0.00E+00	1.18E+01
		Co-60	<6.06E+00	0.00E+00	6.06E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<1.12E+01	0.00E+00	1.12E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 607 [INDICATOR - -- @ 0 miles]

Sample ID: 592831	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<6.15E+00	0.00E+00	6.15E+00
		I-131	<9.36E+00	0.00E+00	9.36E+00
		Cs-134	<6.64E+00	0.00E+00	6.64E+00
		Cs-137	<5.22E+00	0.00E+00	5.22E+00
		BaLa-140	<9.84E+00	0.00E+00	9.84E+00
		Total-Gam	0.00E+00		
		H3SW	<-4.3E+01	0.00E+00	2.08E+02
Sample ID: 594262	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.32E+00	0.00E+00	6.32E+00
		Co-58	<5.61E+00	0.00E+00	5.61E+00
		Fe-59	<8.09E+00	0.00E+00	8.09E+00
		Co-60	<7.00E+00	0.00E+00	7.00E+00
		Zn-65	<1.18E+01	0.00E+00	1.18E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<5.70E+00	0.00E+00	5.70E+00
		I-131	<7.51E+00	0.00E+00	7.51E+00
		Cs-134	<6.70E+00	0.00E+00	6.70E+00
		Cs-137	<5.83E+00	0.00E+00	5.83E+00
		BaLa-140	<6.31E+00	0.00E+00	6.31E+00
		Total-Gam	0.00E+00		
		H3SW	<2.97E+01	0.00E+00	1.98E+02
Sample ID: 596471	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.36E+00	0.00E+00	6.36E+00
		Co-58	<6.67E+00	0.00E+00	6.67E+00
		Fe-59	<1.23E+01	0.00E+00	1.23E+01
		Co-60	<9.32E+00	0.00E+00	9.32E+00
		Zn-65	<1.16E+01	0.00E+00	1.16E+01
		Zr-95	<1.07E+01	0.00E+00	1.07E+01
		Nb-95	<6.79E+00	0.00E+00	6.79E+00
		I-131	<7.47E+00	0.00E+00	7.47E+00
		Cs-134	<7.68E+00	0.00E+00	7.68E+00
		Cs-137	<5.15E+00	0.00E+00	5.15E+00
		BaLa-140	<6.66E+00	0.00E+00	6.66E+00
		Total-Gam	0.00E+00		
		H3SW	<1.13E+02	0.00E+00	1.80E+02
Sample ID: 598842	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.07E+00	0.00E+00	6.07E+00
		Co-58	<6.20E+00	0.00E+00	6.20E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<6.18E+00	0.00E+00	6.18E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<9.47E+00	0.00E+00	9.47E+00
		Nb-95	<6.23E+00	0.00E+00	6.23E+00
		I-131	<8.11E+00	0.00E+00	8.11E+00
		Cs-134	<6.18E+00	0.00E+00	6.18E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<8.45E+00	0.00E+00	8.45E+00
		Total-Gam	0.00E+00		
		H3SW	<8.24E+01	0.00E+00	1.86E+02
Sample ID: 601103	Sample Dates: 12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.58E+00	0.00E+00	5.58E+00
		Co-58	<6.63E+00	0.00E+00	6.63E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<6.99E+00	0.00E+00	6.99E+00
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<7.20E+00	0.00E+00	7.20E+00
		I-131	<7.03E+00	0.00E+00	7.03E+00
		Cs-134	<7.30E+00	0.00E+00	7.30E+00
		Cs-137	<6.52E+00	0.00E+00	6.52E+00
		BaLa-140	<7.28E+00	0.00E+00	7.28E+00
		Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 607 [INDICATOR - -- @ 0 miles]

Sample ID:	601103	Sample Dates:	12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.59E+01	0.00E+00	1.72E+02

Sample Point 609 [INDICATOR - -- @ 0 miles]

Sample ID:	582308	Sample Dates:	1/23/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.96E+00	0.00E+00	6.96E+00
				Co-58	<6.31E+00	0.00E+00	6.31E+00
				Fe-59	<1.25E+01	0.00E+00	1.25E+01
				Co-60	<5.51E+00	0.00E+00	5.51E+00
				Zn-65	<1.29E+01	0.00E+00	1.29E+01
				Zr-95	<8.57E+00	0.00E+00	8.57E+00
				Nb-95	<6.47E+00	0.00E+00	6.47E+00
				I-131	<7.64E+00	0.00E+00	7.64E+00
				Cs-134	<7.10E+00	0.00E+00	7.10E+00
				Cs-137	<5.83E+00	0.00E+00	5.83E+00
				BaLa-140	<7.36E+00	0.00E+00	7.36E+00
				Total-Gam	0.00E+00		
				H3SW	<-9.8E+01	0.00E+00	1.94E+02

Sample ID:	583468	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.22E+00	0.00E+00	5.22E+00
				Co-58	<5.26E+00	0.00E+00	5.26E+00
				Fe-59	<1.03E+01	0.00E+00	1.03E+01
				Co-60	<4.56E+00	0.00E+00	4.56E+00
				Zn-65	<1.12E+01	0.00E+00	1.12E+01
				Zr-95	<1.18E+01	0.00E+00	1.18E+01
				Nb-95	<5.61E+00	0.00E+00	5.61E+00
				I-131	<6.92E+00	0.00E+00	6.92E+00
				Cs-134	<6.55E+00	0.00E+00	6.55E+00
				Cs-137	<5.69E+00	0.00E+00	5.69E+00
				BaLa-140	<7.94E+00	0.00E+00	7.94E+00
				Total-Gam	0.00E+00		
				H3SW	<8.09E+00	0.00E+00	2.02E+02

Sample ID:	585535	Sample Dates:	3/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.92E+00	0.00E+00	4.92E+00
				Co-58	<5.55E+00	0.00E+00	5.55E+00
				Fe-59	<1.34E+01	0.00E+00	1.34E+01
				Co-60	<6.68E+00	0.00E+00	6.68E+00
				Zn-65	<1.17E+01	0.00E+00	1.17E+01
				Zr-95	<1.12E+01	0.00E+00	1.12E+01
				Nb-95	<6.74E+00	0.00E+00	6.74E+00
				I-131	<6.09E+00	0.00E+00	6.09E+00
				Cs-134	<7.46E+00	0.00E+00	7.46E+00
				Cs-137	<5.24E+00	0.00E+00	5.24E+00
				BaLa-140	<6.01E+00	0.00E+00	6.01E+00
				Total-Gam	0.00E+00		
				H3SW	<-7.3E+01	0.00E+00	2.13E+02

Sample ID:	587026	Sample Dates:	4/19/2023 - 4/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.29E+00	0.00E+00	6.29E+00
				Co-58	<5.50E+00	0.00E+00	5.50E+00
				Fe-59	<1.09E+01	0.00E+00	1.09E+01
				Co-60	<6.90E+00	0.00E+00	6.90E+00
				Zn-65	<1.14E+01	0.00E+00	1.14E+01
				Zr-95	<9.18E+00	0.00E+00	9.18E+00
				Nb-95	<5.14E+00	0.00E+00	5.14E+00
				I-131	<5.05E+00	0.00E+00	5.05E+00
				Cs-134	<5.95E+00	0.00E+00	5.95E+00
				Cs-137	<4.96E+00	0.00E+00	4.96E+00
				BaLa-140	<6.22E+00	0.00E+00	6.22E+00
				Total-Gam	0.00E+00		
				H3SW	<1.48E+01	0.00E+00	1.88E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 609 [INDICATOR - -- @ 0 miles]

Sample ID: 588559	Sample Dates: 5/18/2023 - 5/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.01E+00	0.00E+00	7.01E+00
		Co-58	<6.31E+00	0.00E+00	6.31E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<5.51E+00	0.00E+00	5.51E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<5.33E+00	0.00E+00	5.33E+00
		I-131	<8.84E+00	0.00E+00	8.84E+00
		Cs-134	<7.68E+00	0.00E+00	7.68E+00
		Cs-137	<6.66E+00	0.00E+00	6.66E+00
		BaLa-140	<9.32E+00	0.00E+00	9.32E+00
		Total-Gam	0.00E+00		
		H3SW	<2.35E+00	0.00E+00	1.84E+02
Sample ID: 590328	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.50E+00	0.00E+00	6.50E+00
		Co-58	<5.63E+00	0.00E+00	5.63E+00
		Fe-59	<8.85E+00	0.00E+00	8.85E+00
		Co-60	<7.61E+00	0.00E+00	7.61E+00
		Zn-65	<1.49E+01	0.00E+00	1.49E+01
		Zr-95	<1.11E+01	0.00E+00	1.11E+01
		Nb-95	<7.07E+00	0.00E+00	7.07E+00
		I-131	<7.34E+00	0.00E+00	7.34E+00
		Cs-134	<5.56E+00	0.00E+00	5.56E+00
		Cs-137	<5.66E+00	0.00E+00	5.66E+00
		BaLa-140	<7.74E+00	0.00E+00	7.74E+00
		Total-Gam	0.00E+00		
		H3SW	<-4.6E+01	0.00E+00	1.79E+02
Sample ID: 591525	Sample Dates: 7/24/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.78E+00	0.00E+00	5.78E+00
		Co-58	<5.81E+00	0.00E+00	5.81E+00
		Fe-59	<1.31E+01	0.00E+00	1.31E+01
		Co-60	<7.31E+00	0.00E+00	7.31E+00
		Zn-65	<1.49E+01	0.00E+00	1.49E+01
		Zr-95	<1.25E+01	0.00E+00	1.25E+01
		Nb-95	<6.89E+00	0.00E+00	6.89E+00
		I-131	<8.38E+00	0.00E+00	8.38E+00
		Cs-134	<7.49E+00	0.00E+00	7.49E+00
		Cs-137	<7.41E+00	0.00E+00	7.41E+00
		BaLa-140	<8.24E+00	0.00E+00	8.24E+00
		Total-Gam	0.00E+00		
		H3SW	<4.67E+01	0.00E+00	1.88E+02
Sample ID: 592832	Sample Dates: 8/23/2023 - 8/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.69E+00	0.00E+00	6.69E+00
		Co-58	<5.55E+00	0.00E+00	5.55E+00
		Fe-59	<1.37E+01	0.00E+00	1.37E+01
		Co-60	<6.33E+00	0.00E+00	6.33E+00
		Zn-65	<1.25E+01	0.00E+00	1.25E+01
		Zr-95	<1.04E+01	0.00E+00	1.04E+01
		Nb-95	<6.59E+00	0.00E+00	6.59E+00
		I-131	<8.91E+00	0.00E+00	8.91E+00
		Cs-134	<6.91E+00	0.00E+00	6.91E+00
		Cs-137	<7.37E+00	0.00E+00	7.37E+00
		BaLa-140	<6.39E+00	0.00E+00	6.39E+00
		Total-Gam	0.00E+00		
		H3SW	<-5.9E+01	0.00E+00	2.08E+02
Sample ID: 594263	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.54E+00	0.00E+00	6.54E+00
		Co-58	<6.74E+00	0.00E+00	6.74E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<6.72E+00	0.00E+00	6.72E+00
		Zn-65	<1.13E+01	0.00E+00	1.13E+01
		Zr-95	<9.01E+00	0.00E+00	9.01E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 609 [INDICATOR - -- @ 0 miles]

Sample ID: 594263	Sample Dates: 9/19/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<6.14E+00	0.00E+00	6.14E+00
		I-131	<7.02E+00	0.00E+00	7.02E+00
		Cs-134	<7.99E+00	0.00E+00	7.99E+00
		Cs-137	<4.83E+00	0.00E+00	4.83E+00
		BaLa-140	<7.35E+00	0.00E+00	7.35E+00
		Total-Gam	0.00E+00		
		H3SW	<6.71E+01	0.00E+00	1.97E+02
Sample ID: 596472	Sample Dates: 10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.39E+00	0.00E+00	5.39E+00
		Co-58	<5.93E+00	0.00E+00	5.93E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<6.83E+00	0.00E+00	6.83E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<8.66E+00	0.00E+00	8.66E+00
		Nb-95	<5.05E+00	0.00E+00	5.05E+00
		I-131	<7.40E+00	0.00E+00	7.40E+00
		Cs-134	<7.40E+00	0.00E+00	7.40E+00
		Cs-137	<6.13E+00	0.00E+00	6.13E+00
		BaLa-140	<9.12E+00	0.00E+00	9.12E+00
		Total-Gam	0.00E+00		
		H3SW	<1.09E+02	0.00E+00	1.81E+02
Sample ID: 598843	Sample Dates: 11/16/2023 - 11/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.00E+00	0.00E+00	6.00E+00
		Co-58	<7.77E+00	0.00E+00	7.77E+00
		Fe-59	<1.36E+01	0.00E+00	1.36E+01
		Co-60	<6.31E+00	0.00E+00	6.31E+00
		Zn-65	<1.40E+01	0.00E+00	1.40E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<7.35E+00	0.00E+00	7.35E+00
		I-131	<9.54E+00	0.00E+00	9.54E+00
		Cs-134	<7.86E+00	0.00E+00	7.86E+00
		Cs-137	<5.47E+00	0.00E+00	5.47E+00
		BaLa-140	<9.87E+00	0.00E+00	9.87E+00
		Total-Gam	0.00E+00		
		H3SW	<5.58E+01	0.00E+00	1.86E+02
Sample ID: 601104	Sample Dates: 12/19/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.20E+00	0.00E+00	6.20E+00
		Co-58	<6.18E+00	0.00E+00	6.18E+00
		Fe-59	<1.28E+01	0.00E+00	1.28E+01
		Co-60	<6.23E+00	0.00E+00	6.23E+00
		Zn-65	<1.64E+01	0.00E+00	1.64E+01
		Zr-95	<1.13E+01	0.00E+00	1.13E+01
		Nb-95	<6.49E+00	0.00E+00	6.49E+00
		I-131	<7.74E+00	0.00E+00	7.74E+00
		Cs-134	<8.63E+00	0.00E+00	8.63E+00
		Cs-137	<5.34E+00	0.00E+00	5.34E+00
		BaLa-140	<9.62E+00	0.00E+00	9.62E+00
		Total-Gam	0.00E+00		
		H3SW	<2.13E+01	0.00E+00	1.72E+02

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 2 [INDICATOR - ESE @ 0.88 miles]

TLD RING TLD_INNER

Sample ID: 586276	Sample Dates: 1/10/2023 - 4/5/2023	Nuclide	Activity
		mR/Std Qtr	8.92
Sample ID: 590869	Sample Dates: 4/5/2023 - 7/12/2023	Nuclide	Activity
		mR/Std Qtr	11.30
Sample ID: 595261	Sample Dates: 7/12/2023 - 10/3/2023	Nuclide	Activity
		mR/Std Qtr	7.19

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 2 [INDICATOR - ESE @ 0.88 miles]

TLD RING TLD_INNER

Sample ID:	601894	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.47

Sample Point 3 [INDICATOR - SE @ 0.82 miles]

TLD RING TLD_INNER

Sample ID:	586287	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.19

Sample ID:	590879	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	11.71

Sample ID:	595271	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	7.30

Sample ID:	601904	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.02

Sample Point 4 [INDICATOR - SSE @ 1.01 miles]

TLD RING TLD_INNER

Sample ID:	586298	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.30

Sample ID:	590888	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.20

Sample ID:	595280	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.60

Sample ID:	601913	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.84

Sample Point 6 [INDICATOR - SSW @ 1.45 miles]

TLD RING TLD_INNER

Sample ID:	586301	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.67

Sample ID:	590890	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.60

Sample ID:	595282	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.20

Sample ID:	601915	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.47

Sample Point 7 [INDICATOR - SW @ 1.03 miles]

TLD RING TLD_INNER

Sample ID:	586302	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.87

Sample ID:	590891	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.22

Sample ID:	595283	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	7.83

Sample ID:	601916	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.55

Sample Point 8 [INDICATOR - W @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	586308	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.91

Sample ID:	590897	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.54

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 8 [INDICATOR - W @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	595289	Sample Dates:	7/10/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	8.43
Sample ID:	601922	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.28

Sample Point 9 [INDICATOR - WNW @ 1.08 miles]

TLD RING TLD_INNER

Sample ID:	586314	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.75
Sample ID:	590907	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.73
Sample ID:	595299	Sample Dates:	7/10/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	6.63
Sample ID:	601932	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.21

Sample Point 10 [INDICATOR - NW @ 0.95 miles]

TLD RING TLD_INNER

Sample ID:	586267	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	7.24
Sample ID:	590861	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	9.38
Sample ID:	595253	Sample Dates:	7/10/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	6.22
Sample ID:	601886	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	9.41

Sample Point 11 [INDICATOR - NNW @ 1.01 miles]

TLD RING TLD_INNER

Sample ID:	586268	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.71
Sample ID:	590862	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.72
Sample ID:	595254	Sample Dates:	7/10/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	6.78
Sample ID:	601887	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.63

Sample Point 12 [INDICATOR - N @ 1.16 miles]

TLD RING TLD_INNER

Sample ID:	586269	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.02
Sample ID:	590863	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.60
Sample ID:	595255	Sample Dates:	7/10/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	7.28
Sample ID:	601888	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.10

Sample Point 13 [INDICATOR - NNE @ 1.28 miles]

TLD RING TLD_INNER

Sample ID:	586270	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.95

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 13 [INDICATOR - NNE @ 1.28 miles]

TLD RING TLD_INNER

Sample ID:	590864	Sample Dates:	4/5/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	9.53
Sample ID:	595256	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	6.43
Sample ID:	601889	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.27

Sample Point 14 [INDICATOR - NE @ 0.61 miles]

TLD RING TLD_INNER

Sample ID:	586271	Sample Dates:	1/6/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	9.64
Sample ID:	590865	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	11.04
Sample ID:	595257	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	7.30
Sample ID:	601890	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.65

Sample Point 16 [INDICATOR - WSW @ 0.99 miles]

TLD RING TLD_INNER

Sample ID:	586273	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.97
Sample ID:	590866	Sample Dates:	4/5/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	10.49
Sample ID:	595258	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	6.27
Sample ID:	601891	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.69

Sample Point 17 [INDICATOR - ESE @ 1.41 miles]

TLD RING TLD_INNER

Sample ID:	586274	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	16.75
Sample ID:	590867	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	15.78
Sample ID:	595259	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	12.90
Sample ID:	601892	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	17.08

Sample Point 18 [INDICATOR - SE @ 1.6 miles]

TLD RING TLD_INNER

Sample ID:	586275	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.23
Sample ID:	590868	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.78
Sample ID:	595260	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.40
Sample ID:	601893	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.08

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 20 [INDICATOR - S @ 2.01 miles]

TLD RING TLD_INNER

Sample ID:	586277	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	9.25
Sample ID:	590870	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.21
Sample ID:	595262	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.71
Sample ID:	601895	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.77

Sample Point 21 [INDICATOR - SSW @ 2.79 miles]

TLD RING TLD_INNER

Sample ID:	586278	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	11.63
Sample ID:	590871	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	11.69
Sample ID:	595263	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	8.18
Sample ID:	601896	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	12.43

Sample Point 22 [INDICATOR - SW @ 5.18 miles]

TLD RING TLD_OUTER

Sample ID:	586279	Sample Dates:	1/5/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	10.05
Sample ID:	590872	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	11.41
Sample ID:	601897	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	12.39

Sample Point 24 [INDICATOR - W @ 3 miles]

TLD RING TLD_INNER

Sample ID:	586281	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	12.46
Sample ID:	590873	Sample Dates:	4/4/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	13.08
Sample ID:	595265	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	9.31
Sample ID:	601898	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	13.64

Sample Point 25 [INDICATOR - WNW @ 8.64 miles]

TLD RING TLD_OUTER

Sample ID:	586282	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	8.93
Sample ID:	590874	Sample Dates:	4/4/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	11.30
Sample ID:	595266	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	6.41
Sample ID:	601899	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.46

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 26 [INDICATOR - NW @ 5.95 miles]

TLD RING TLD_OUTER

Sample ID:	586283	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	11.92
Sample ID:	590875	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	12.34
Sample ID:	595267	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	7.77
Sample ID:	601900	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	13.21

Sample Point 27 [INDICATOR - NNW @ 5.17 miles]

TLD RING TLD_OUTER

Sample ID:	586284	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.85
Sample ID:	590876	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.83
Sample ID:	595268	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.44
Sample ID:	601901	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	9.99

Sample Point 28 [INDICATOR - NNW @ 4.31 miles]

TLD RING TLD_OUTER

Sample ID:	586285	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.47
Sample ID:	590877	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.40
Sample ID:	595269	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	5.78
Sample ID:	601902	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	9.32

Sample Point 29 [INDICATOR - SSW @ 2.5 miles]

TLD RING TLD_INNER

Sample ID:	586286	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.76
Sample ID:	590878	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.57
Sample ID:	595270	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.41
Sample ID:	601903	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.29

Sample Point 30 [INDICATOR - NE @ 2.06 miles]

TLD RING TLD_INNER

Sample ID:	586288	Sample Dates:	1/6/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	7.91
Sample ID:	590880	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	9.77
Sample ID:	595272	Sample Dates:	7/11/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	5.57
Sample ID:	601905	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	11.39

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 31 [INDICATOR - ENE @ 2.55 miles]

TLD RING TLD_INNER

Sample ID:	586289	Sample Dates:	1/6/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	10.80
Sample ID:	590881	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	12.29
Sample ID:	595273	Sample Dates:	7/11/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	7.96
Sample ID:	601906	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	12.69

Sample Point 32 [INDICATOR - ENE @ 5.85 miles]

TLD RING TLD_OUTER

Sample ID:	586290	Sample Dates:	1/6/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	10.88
Sample ID:	590882	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	10.78
Sample ID:	595274	Sample Dates:	7/11/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	7.77
Sample ID:	601907	Sample Dates:	10/2/2023 - 1/4/2024	Nuclide	Activity
				mR/Std Qtr	13.12

Sample Point 33 [INDICATOR - E @ 4.13 miles]

TLD RING TLD_OUTER

Sample ID:	586291	Sample Dates:	1/6/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	8.15
Sample ID:	590883	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	8.89
Sample ID:	595275	Sample Dates:	7/11/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	5.45
Sample ID:	601908	Sample Dates:	10/2/2023 - 1/4/2024	Nuclide	Activity
				mR/Std Qtr	9.86

Sample Point 35 [INDICATOR - SSE @ 7.09 miles]

TLD RING TLD_OUTER

Sample ID:	586293	Sample Dates:	1/9/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	7.95
Sample ID:	590884	Sample Dates:	4/12/2023 - 7/6/2023	Nuclide	Activity
				mR/Std Qtr	10.08
Sample ID:	595276	Sample Dates:	7/6/2023 - 10/5/2023	Nuclide	Activity
				mR/Std Qtr	5.38
Sample ID:	601909	Sample Dates:	10/5/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	10.09

Sample Point 36 [INDICATOR - NE @ 9.02 miles]

TLD RING TLD_OUTER

Sample ID:	586294	Sample Dates:	1/6/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	9.64
Sample ID:	590885	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	11.48
Sample ID:	595277	Sample Dates:	7/11/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	7.24
Sample ID:	601910	Sample Dates:	10/2/2023 - 1/4/2024	Nuclide	Activity
				mR/Std Qtr	11.64

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 37 [INDICATOR - NNW @ 5.58 miles]

TLD RING TLD_OUTER

Sample ID:	586295	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	6.93
Sample ID:	590886	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	10.04
Sample ID:	595278	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	5.16
Sample ID:	601911	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	10.34

Sample Point 39 [INDICATOR - SW @ 5.2 miles]

TLD RING TLD_OUTER

Sample ID:	586297	Sample Dates:	1/5/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	14.32
Sample ID:	590887	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	14.18
Sample ID:	595279	Sample Dates:	7/12/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	10.39
Sample ID:	601912	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	15.80

Sample Point 40 [INDICATOR - WSW @ 6.81 miles]

TLD RING TLD_OUTER

Sample ID:	586299	Sample Dates:	1/5/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	12.41
Sample ID:	590889	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	13.22
Sample ID:	595281	Sample Dates:	7/12/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	8.90
Sample ID:	601914	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	14.69

Sample Point 75 [INDICATOR - S @ 4.56 miles]

TLD RING TLD_OUTER

Sample ID:	586303	Sample Dates:	1/5/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	9.94
Sample ID:	590892	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	10.93
Sample ID:	595284	Sample Dates:	7/12/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	7.00
Sample ID:	601917	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	12.49

Sample Point 76 [INDICATOR - SSW @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	586304	Sample Dates:	1/5/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	10.93
Sample ID:	590893	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	11.75
Sample ID:	595285	Sample Dates:	7/12/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	7.55
Sample ID:	601918	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	12.66

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 77 [INDICATOR - S @ 5.34 miles]

TLD RING TLD_OUTER

Sample ID:	586305	Sample Dates:	1/9/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	7.77
Sample ID:	590894	Sample Dates:	4/12/2023 - 7/6/2023	Nuclide	Activity
				mR/Std Qtr	7.73
Sample ID:	595286	Sample Dates:	7/6/2023 - 10/5/2023	Nuclide	Activity
				mR/Std Qtr	5.94
Sample ID:	601919	Sample Dates:	10/5/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	8.67

Sample Point 78 [INDICATOR - NNE @ 10 miles]

TLD RING TLD_OUTER

Sample ID:	586306	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	6.94
Sample ID:	590895	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	8.73
Sample ID:	595287	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	4.95
Sample ID:	601920	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	8.07

Sample Point 79 [INDICATOR - N @ 9.56 miles]

TLD RING TLD_OUTER

Sample ID:	586307	Sample Dates:	1/5/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	8.29
Sample ID:	590896	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	9.56
Sample ID:	595288	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	6.74
Sample ID:	601921	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity
				mR/Std Qtr	9.87

Sample Point 81 [CONTROL - WNW @ 9.98 miles]

TLD RING TLD_CTRL

Sample ID:	586309	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	9.64
Sample ID:	590898	Sample Dates:	4/4/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	11.69
Sample ID:	595290	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	7.36
Sample ID:	601923	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.98

Sample Point 82 [INDICATOR - NNE @ 0.29 miles]

TLD RING TLD_ISFSI

Sample ID:	586310	Sample Dates:	1/6/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	38.92
Sample ID:	590899	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	38.12
Sample ID:	595291	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	31.27
Sample ID:	601924	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	35.82

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 83 [INDICATOR - NE @ 0.4 miles]

TLD RING TLD_ISFSI

Sample ID:	586311	Sample Dates:	1/6/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	23.25
Sample ID:	590900	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	25.16
Sample ID:	595292	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	20.23
Sample ID:	601925	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	26.81

Sample Point 84 [INDICATOR - NE @ 0.39 miles]

TLD RING TLD_ISFSI

Sample ID:	586312	Sample Dates:	1/6/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	27.91
Sample ID:	590901	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	26.72
Sample ID:	595293	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	21.81
Sample ID:	601926	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	27.72

Sample Point 85 [INDICATOR - NE @ 0.21 miles]

TLD RING TLD_ISFSI

Sample ID:	586313	Sample Dates:	1/6/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	23.25
Sample ID:	590902	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	25.21
Sample ID:	595294	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	17.92
Sample ID:	601927	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	22.51

Sample Point 86 [INDICATOR - E @ 1.07 miles]

TLD RING TLD_INNER

Sample ID:	589612	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	7.45
Sample ID:	590903	Sample Dates:	4/5/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	9.81
Sample ID:	595295	Sample Dates:	7/12/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	5.69
Sample ID:	601928	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	10.88

Sample Point 87 [INDICATOR - ENE @ 1.02 miles]

TLD RING TLD_INNER

Sample ID:	589613	Sample Dates:	1/4/2023 - 4/6/2023	Nuclide	Activity
				mR/Std Qtr	9.95
Sample ID:	590904	Sample Dates:	4/6/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	11.61
Sample ID:	595296	Sample Dates:	7/11/2023 - 10/4/2023	Nuclide	Activity
				mR/Std Qtr	7.61
Sample ID:	601929	Sample Dates:	10/4/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	11.28

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 88 [INDICATOR - WSW @ 5.3 miles]

TLD RING TLD_OUTER

Sample ID:	589614	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	7.69
Sample ID:	590905	Sample Dates:	4/4/2023 - 7/12/2023	Nuclide	Activity
				mR/Std Qtr	9.47
Sample ID:	595297	Sample Dates:	7/12/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	5.23
Sample ID:	601930	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	9.27

Sample Point 89 [INDICATOR - E @ 5.06 miles]

TLD RING TLD_OUTER

Sample ID:	589615	Sample Dates:	1/4/2023 - 4/7/2023	Nuclide	Activity
				mR/Std Qtr	11.79
Sample ID:	590906	Sample Dates:	4/7/2023 - 7/11/2023	Nuclide	Activity
				mR/Std Qtr	12.06
Sample ID:	595298	Sample Dates:	7/11/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	8.27

Sample Point 90 [INDICATOR - W @ 5.68 miles]

TLD RING TLD_OUTER

Sample ID:	589616	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity
				mR/Std Qtr	14.91
Sample ID:	590908	Sample Dates:	4/4/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	14.85
Sample ID:	595300	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity
				mR/Std Qtr	10.28
Sample ID:	601933	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	16.26

Sample Point 91 [INDICATOR - S @ 0.95 miles]

TLD RING TLD_INNER

Sample ID:	589620	Sample Dates:	1/4/2023 - 4/5/2023	Nuclide	Activity
				mR/Std Qtr	13.10
Sample ID:	590909	Sample Dates:	4/5/2023 - 7/10/2023	Nuclide	Activity
				mR/Std Qtr	12.80
Sample ID:	595301	Sample Dates:	7/10/2023 - 10/3/2023	Nuclide	Activity
				mR/Std Qtr	11.93
Sample ID:	601934	Sample Dates:	10/3/2023 - 1/2/2024	Nuclide	Activity
				mR/Std Qtr	14.13

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 800 [INDICATOR - NE @ 0.76 miles]

Sample ID:	582960	Sample Dates:	1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.56E+01	0.00E+00	5.56E+01
					Co-58	<4.69E+01	0.00E+00	4.69E+01
					Fe-59	<9.32E+01	0.00E+00	9.32E+01
					Co-60	<4.56E+01	0.00E+00	4.56E+01
					Zn-65	<8.67E+01	0.00E+00	8.67E+01
					Zr-95	<7.10E+01	0.00E+00	7.10E+01
					Nb-95	<4.68E+01	0.00E+00	4.68E+01
					I-131	<4.10E+01	0.00E+00	4.10E+01
					Cs-134	<4.89E+01	0.00E+00	4.89E+01
					Cs-137	<4.42E+01	0.00E+00	4.42E+01
					BaLa-140	<3.55E+01	0.00E+00	3.55E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 800 [INDICATOR - NE @ 0.76 miles]

Sample ID: 582960	Sample Dates: 1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	1.70E+03	4.42E+02	4.55E+02
			K-40	2.39E+03	7.44E+02	7.42E+02
Sample ID: 584928	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.86E+01	0.00E+00	1.86E+01
			Co-58	<1.48E+01	0.00E+00	1.48E+01
			Fe-59	<3.44E+01	0.00E+00	3.44E+01
			Co-60	<1.29E+01	0.00E+00	1.29E+01
			Zn-65	<3.91E+01	0.00E+00	3.91E+01
			Zr-95	<3.42E+01	0.00E+00	3.42E+01
			Nb-95	<1.70E+01	0.00E+00	1.70E+01
			I-131	<2.55E+01	0.00E+00	2.55E+01
			Cs-134	<1.82E+01	0.00E+00	1.82E+01
			Cs-137	<1.92E+01	0.00E+00	1.92E+01
			BaLa-140	<2.23E+01	0.00E+00	2.23E+01
			Be-7	1.91E+03	2.87E+02	2.15E+02
Sample ID: 586075	Sample Dates: 3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.90E+01	0.00E+00	1.90E+01
			Co-58	<1.53E+01	0.00E+00	1.53E+01
			Fe-59	<2.57E+01	0.00E+00	2.57E+01
			Co-60	<1.88E+01	0.00E+00	1.88E+01
			Zn-65	<4.17E+01	0.00E+00	4.17E+01
			Zr-95	<2.64E+01	0.00E+00	2.64E+01
			Nb-95	<1.79E+01	0.00E+00	1.79E+01
			I-131	<1.46E+01	0.00E+00	1.46E+01
			Cs-134	<1.93E+01	0.00E+00	1.93E+01
			Cs-137	<1.67E+01	0.00E+00	1.67E+01
			BaLa-140	<2.13E+01	0.00E+00	2.13E+01
			Be-7	2.24E+03	2.98E+02	1.85E+02
Sample ID: 587432	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.00E+01	0.00E+00	2.00E+01
			Co-58	<2.68E+01	0.00E+00	2.68E+01
			Fe-59	<5.25E+01	0.00E+00	5.25E+01
			Co-60	<3.19E+01	0.00E+00	3.19E+01
			Zn-65	<4.28E+01	0.00E+00	4.28E+01
			Zr-95	<3.50E+01	0.00E+00	3.50E+01
			Nb-95	<2.59E+01	0.00E+00	2.59E+01
			I-131	<3.41E+01	0.00E+00	3.41E+01
			Cs-134	<2.86E+01	0.00E+00	2.86E+01
			Cs-137	<2.25E+01	0.00E+00	2.25E+01
			BaLa-140	<4.16E+01	0.00E+00	4.16E+01
			Be-7	1.83E+03	3.27E+02	3.10E+02
Sample ID: 589546	Sample Dates: 5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.72E+01	0.00E+00	1.72E+01
			Co-58	<1.79E+01	0.00E+00	1.79E+01
			Fe-59	<4.51E+01	0.00E+00	4.51E+01
			Co-60	<1.92E+01	0.00E+00	1.92E+01
			Zn-65	<4.06E+01	0.00E+00	4.06E+01
			Zr-95	<3.64E+01	0.00E+00	3.64E+01
			Nb-95	<2.33E+01	0.00E+00	2.33E+01
			I-131	<2.14E+01	0.00E+00	2.14E+01
			Cs-134	<2.27E+01	0.00E+00	2.27E+01
			Cs-137	<2.17E+01	0.00E+00	2.17E+01
			BaLa-140	<1.76E+01	0.00E+00	1.76E+01
			Be-7	8.73E+02	2.00E+02	2.10E+02
Sample ID: 590488	Sample Dates: 6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.24E+01	0.00E+00	2.24E+01
			Co-58	<2.80E+01	0.00E+00	2.80E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 800 [INDICATOR - NE @ 0.76 miles]

Sample ID: 590488	Sample Dates: 6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<5.40E+01	0.00E+00	5.40E+01
			Co-60	<2.24E+01	0.00E+00	2.24E+01
			Zn-65	<6.40E+01	0.00E+00	6.40E+01
			Zr-95	<4.87E+01	0.00E+00	4.87E+01
			Nb-95	<3.16E+01	0.00E+00	3.16E+01
			I-131	<3.68E+01	0.00E+00	3.68E+01
			Cs-134	<2.75E+01	0.00E+00	2.75E+01
			Cs-137	<2.48E+01	0.00E+00	2.48E+01
			BaLa-140	<3.01E+01	0.00E+00	3.01E+01
			Be-7	5.42E+02	2.23E+02	3.14E+02
			K-40	3.37E+03	5.75E+02	3.71E+02
Sample ID: 591623	Sample Dates: 7/2/2023 - 7/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.54E+01	0.00E+00	4.54E+01
			Co-58	<3.66E+01	0.00E+00	3.66E+01
			Fe-59	<7.36E+01	0.00E+00	7.36E+01
			Co-60	<3.76E+01	0.00E+00	3.76E+01
			Zn-65	<7.35E+01	0.00E+00	7.35E+01
			Zr-95	<8.76E+01	0.00E+00	8.76E+01
			Nb-95	<4.36E+01	0.00E+00	4.36E+01
			I-131	<5.25E+01	0.00E+00	5.25E+01
			Cs-134	<4.90E+01	0.00E+00	4.90E+01
			Cs-137	<4.39E+01	0.00E+00	4.39E+01
			BaLa-140	<6.12E+01	0.00E+00	6.12E+01
			Be-7	1.15E+03	4.18E+02	5.44E+02
			K-40	4.32E+03	9.31E+02	7.00E+02
Sample ID: 593004	Sample Dates: 8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.27E+01	0.00E+00	2.27E+01
			Co-58	<1.93E+01	0.00E+00	1.93E+01
			Fe-59	<3.93E+01	0.00E+00	3.93E+01
			Co-60	<3.00E+01	0.00E+00	3.00E+01
			Zn-65	<8.60E+00	0.00E+00	8.60E+00
			Zr-95	<4.49E+01	0.00E+00	4.49E+01
			Nb-95	<2.35E+01	0.00E+00	2.35E+01
			I-131	<3.48E+01	0.00E+00	3.48E+01
			Cs-134	<2.53E+01	0.00E+00	2.53E+01
			Cs-137	<2.09E+01	0.00E+00	2.09E+01
			BaLa-140	<3.19E+01	0.00E+00	3.19E+01
			Be-7	2.71E+03	4.13E+02	2.77E+02
			K-40	3.35E+03	5.94E+02	3.54E+02
Sample ID: 594282	Sample Dates: 9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.25E+01	0.00E+00	2.25E+01
			Co-58	<2.12E+01	0.00E+00	2.12E+01
			Fe-59	<4.44E+01	0.00E+00	4.44E+01
			Co-60	<2.95E+01	0.00E+00	2.95E+01
			Zn-65	<4.31E+01	0.00E+00	4.31E+01
			Zr-95	<3.50E+01	0.00E+00	3.50E+01
			Nb-95	<1.93E+01	0.00E+00	1.93E+01
			I-131	<3.26E+01	0.00E+00	3.26E+01
			Cs-134	<2.61E+01	0.00E+00	2.61E+01
			Cs-137	<1.75E+01	0.00E+00	1.75E+01
			BaLa-140	<3.51E+01	0.00E+00	3.51E+01
			Be-7	1.25E+03	2.61E+02	2.09E+02
			K-40	2.08E+03	4.92E+02	4.44E+02
Sample ID: 596393	Sample Dates: 10/5/2023 - 10/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.39E+01	0.00E+00	3.39E+01
			Co-58	<3.45E+01	0.00E+00	3.45E+01
			Fe-59	<6.42E+01	0.00E+00	6.42E+01
			Co-60	<3.03E+01	0.00E+00	3.03E+01
			Zn-65	<7.52E+01	0.00E+00	7.52E+01
			Zr-95	<5.64E+01	0.00E+00	5.64E+01
			Nb-95	<4.17E+01	0.00E+00	4.17E+01
			I-131	<4.19E+01	0.00E+00	4.19E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 800 [INDICATOR - NE @ 0.76 miles]

Sample ID: 596393	Sample Dates: 10/5/2023 - 10/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<4.20E+01	0.00E+00	4.20E+01
			Cs-137	<4.09E+01	0.00E+00	4.09E+01
			BaLa-140	<3.76E+01	0.00E+00	3.76E+01
			Be-7	1.29E+03	3.83E+02	4.36E+02
			K-40	3.03E+03	7.18E+02	4.89E+02

Sample ID: 598211	Sample Dates: 11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.71E+01	0.00E+00	3.71E+01
			Co-58	<3.31E+01	0.00E+00	3.31E+01
			Fe-59	<8.09E+01	0.00E+00	8.09E+01
			Co-60	<3.18E+01	0.00E+00	3.18E+01
			Zn-65	<6.81E+01	0.00E+00	6.81E+01
			Zr-95	<5.12E+01	0.00E+00	5.12E+01
			Nb-95	<2.95E+01	0.00E+00	2.95E+01
			I-131	<3.40E+01	0.00E+00	3.40E+01
			Cs-134	<2.12E+01	0.00E+00	2.12E+01
			Cs-137	<2.78E+01	0.00E+00	2.78E+01
			BaLa-140	<6.09E+01	0.00E+00	6.09E+01
			Be-7	1.02E+03	3.16E+02	3.53E+02
			K-40	2.26E+03	6.16E+02	5.38E+02

Sample ID: 602259	Sample Dates: 12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.49E+01	0.00E+00	2.49E+01
			Co-58	<2.96E+01	0.00E+00	2.96E+01
			Fe-59	<5.79E+01	0.00E+00	5.79E+01
			Co-60	<3.38E+01	0.00E+00	3.38E+01
			Zn-65	<6.65E+01	0.00E+00	6.65E+01
			Zr-95	<5.91E+01	0.00E+00	5.91E+01
			Nb-95	<2.80E+01	0.00E+00	2.80E+01
			I-131	<4.43E+01	0.00E+00	4.43E+01
			Cs-134	<2.82E+01	0.00E+00	2.82E+01
			Cs-137	<2.26E+01	0.00E+00	2.26E+01
			BaLa-140	<4.42E+01	0.00E+00	4.42E+01
			Be-7	8.26E+02	2.29E+02	2.11E+02
			K-40	2.16E+03	5.14E+02	3.77E+02

Sample Point 801 [INDICATOR - SW @ 0.71 miles]

Sample ID: 582961	Sample Dates: 1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.42E+01	0.00E+00	3.42E+01
			Co-58	<3.65E+01	0.00E+00	3.65E+01
			Fe-59	<9.80E+01	0.00E+00	9.80E+01
			Co-60	<4.98E+01	0.00E+00	4.98E+01
			Zn-65	<8.68E+01	0.00E+00	8.68E+01
			Zr-95	<7.10E+01	0.00E+00	7.10E+01
			Nb-95	<5.85E+01	0.00E+00	5.85E+01
			I-131	<4.39E+01	0.00E+00	4.39E+01
			Cs-134	<5.11E+01	0.00E+00	5.11E+01
			Cs-137	<4.22E+01	0.00E+00	4.22E+01
			BaLa-140	<4.49E+01	0.00E+00	4.49E+01
			Be-7	1.46E+03	4.16E+02	4.52E+02
			K-40	2.17E+03	6.63E+02	5.62E+02

Sample ID: 584929	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.68E+01	0.00E+00	1.68E+01
			Co-58	<1.72E+01	0.00E+00	1.72E+01
			Fe-59	<3.44E+01	0.00E+00	3.44E+01
			Co-60	<1.83E+01	0.00E+00	1.83E+01
			Zn-65	<3.89E+01	0.00E+00	3.89E+01
			Zr-95	<3.11E+01	0.00E+00	3.11E+01
			Nb-95	<1.48E+01	0.00E+00	1.48E+01
			I-131	<2.53E+01	0.00E+00	2.53E+01
			Cs-134	<1.62E+01	0.00E+00	1.62E+01
			Cs-137	<1.78E+01	0.00E+00	1.78E+01
			BaLa-140	<2.53E+01	0.00E+00	2.53E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 801 [INDICATOR - SW @ 0.71 miles]

Sample ID: 584929	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	1.68E+03	2.63E+02	2.12E+02
			K-40	2.66E+03	4.12E+02	2.24E+02
Sample ID: 586076	Sample Dates: 3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.57E+01	0.00E+00	1.57E+01
			Co-58	<1.66E+01	0.00E+00	1.66E+01
			Fe-59	<2.90E+01	0.00E+00	2.90E+01
			Co-60	<1.73E+01	0.00E+00	1.73E+01
			Zn-65	<3.69E+01	0.00E+00	3.69E+01
			Zr-95	<1.86E+01	0.00E+00	1.86E+01
			Nb-95	<1.75E+01	0.00E+00	1.75E+01
			I-131	<1.53E+01	0.00E+00	1.53E+01
			Cs-134	<1.64E+01	0.00E+00	1.64E+01
			Cs-137	<1.63E+01	0.00E+00	1.63E+01
			BaLa-140	<1.52E+01	0.00E+00	1.52E+01
Sample ID: 587433	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.29E+01	0.00E+00	2.29E+01
			Co-58	<2.24E+01	0.00E+00	2.24E+01
			Fe-59	<4.57E+01	0.00E+00	4.57E+01
			Co-60	<1.41E+01	0.00E+00	1.41E+01
			Zn-65	<4.43E+01	0.00E+00	4.43E+01
			Zr-95	<4.10E+01	0.00E+00	4.10E+01
			Nb-95	<3.17E+01	0.00E+00	3.17E+01
			I-131	<2.60E+01	0.00E+00	2.60E+01
			Cs-134	<2.56E+01	0.00E+00	2.56E+01
			Cs-137	<2.62E+01	0.00E+00	2.62E+01
			BaLa-140	<2.61E+01	0.00E+00	2.61E+01
Sample ID: 589547	Sample Dates: 5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.09E+01	0.00E+00	2.09E+01
			Co-58	<1.66E+01	0.00E+00	1.66E+01
			Fe-59	<4.78E+01	0.00E+00	4.78E+01
			Co-60	<2.28E+01	0.00E+00	2.28E+01
			Zn-65	<4.83E+01	0.00E+00	4.83E+01
			Zr-95	<2.77E+01	0.00E+00	2.77E+01
			Nb-95	<2.38E+01	0.00E+00	2.38E+01
			I-131	<2.68E+01	0.00E+00	2.68E+01
			Cs-134	<1.96E+01	0.00E+00	1.96E+01
			Cs-137	<1.98E+01	0.00E+00	1.98E+01
			BaLa-140	<2.23E+01	0.00E+00	2.23E+01
Sample ID: 590489	Sample Dates: 6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.77E+01	0.00E+00	1.77E+01
			Co-58	<1.82E+01	0.00E+00	1.82E+01
			Fe-59	<3.65E+01	0.00E+00	3.65E+01
			Co-60	<1.81E+01	0.00E+00	1.81E+01
			Zn-65	<3.85E+01	0.00E+00	3.85E+01
			Zr-95	<3.67E+01	0.00E+00	3.67E+01
			Nb-95	<1.98E+01	0.00E+00	1.98E+01
			I-131	<2.81E+01	0.00E+00	2.81E+01
			Cs-134	<1.98E+01	0.00E+00	1.98E+01
			Cs-137	<1.96E+01	0.00E+00	1.96E+01
			BaLa-140	<2.52E+01	0.00E+00	2.52E+01
Sample ID: 591624	Sample Dates: 7/3/2023 - 7/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.37E+01	0.00E+00	3.37E+01
			Co-58	<3.01E+01	0.00E+00	3.01E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 801 [INDICATOR - SW @ 0.71 miles]

Sample ID: 591624	Sample Dates: 7/3/2023 - 7/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<6.42E+01	0.00E+00	6.42E+01
			Co-60	<4.35E+01	0.00E+00	4.35E+01
			Zn-65	<5.80E+01	0.00E+00	5.80E+01
			Zr-95	<6.70E+01	0.00E+00	6.70E+01
			Nb-95	<4.20E+01	0.00E+00	4.20E+01
			I-131	<3.64E+01	0.00E+00	3.64E+01
			Cs-134	<4.32E+01	0.00E+00	4.32E+01
			Cs-137	<4.38E+01	0.00E+00	4.38E+01
			BaLa-140	<3.17E+01	0.00E+00	3.17E+01
			Be-7	2.20E+03	4.98E+02	5.35E+02
			K-40	3.40E+03	7.68E+02	5.82E+02
Sample ID: 593005	Sample Dates: 8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.96E+01	0.00E+00	1.96E+01
			Co-58	<2.16E+01	0.00E+00	2.16E+01
			Fe-59	<4.52E+01	0.00E+00	4.52E+01
			Co-60	<2.20E+01	0.00E+00	2.20E+01
			Zn-65	<4.12E+01	0.00E+00	4.12E+01
			Zr-95	<3.76E+01	0.00E+00	3.76E+01
			Nb-95	<2.11E+01	0.00E+00	2.11E+01
			I-131	<2.27E+01	0.00E+00	2.27E+01
			Cs-134	<2.50E+01	0.00E+00	2.50E+01
			Cs-137	<2.15E+01	0.00E+00	2.15E+01
			BaLa-140	<4.10E+01	0.00E+00	4.10E+01
Sample ID: 594283	Sample Dates: 9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.19E+01	0.00E+00	2.19E+01
			Co-58	<1.98E+01	0.00E+00	1.98E+01
			Fe-59	<6.43E+01	0.00E+00	6.43E+01
			Co-60	<2.75E+01	0.00E+00	2.75E+01
			Zn-65	<6.46E+01	0.00E+00	6.46E+01
			Zr-95	<3.44E+01	0.00E+00	3.44E+01
			Nb-95	<2.89E+01	0.00E+00	2.89E+01
			I-131	<4.16E+01	0.00E+00	4.16E+01
			Cs-134	<3.27E+01	0.00E+00	3.27E+01
			Cs-137	<3.43E+01	0.00E+00	3.43E+01
			BaLa-140	<4.38E+01	0.00E+00	4.38E+01
Sample ID: 596394	Sample Dates: 10/2/2023 - 10/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.79E+01	0.00E+00	3.79E+01
			Co-58	<2.20E+01	0.00E+00	2.20E+01
			Fe-59	<7.90E+01	0.00E+00	7.90E+01
			Co-60	<2.40E+01	0.00E+00	2.40E+01
			Zn-65	<8.68E+01	0.00E+00	8.68E+01
			Zr-95	<3.84E+01	0.00E+00	3.84E+01
			Nb-95	<2.93E+01	0.00E+00	2.93E+01
			I-131	<4.99E+01	0.00E+00	4.99E+01
			Cs-134	<4.02E+01	0.00E+00	4.02E+01
			Cs-137	<4.51E+01	0.00E+00	4.51E+01
			BaLa-140	<5.55E+01	0.00E+00	5.55E+01
Sample ID: 598212	Sample Dates: 11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.23E+01	0.00E+00	3.23E+01
			Co-58	<4.10E+01	0.00E+00	4.10E+01
			Fe-59	<6.04E+01	0.00E+00	6.04E+01
			Co-60	<3.67E+01	0.00E+00	3.67E+01
			Zn-65	<6.46E+01	0.00E+00	6.46E+01
			Zr-95	<5.17E+01	0.00E+00	5.17E+01
			Nb-95	<3.87E+01	0.00E+00	3.87E+01
			I-131	<3.80E+01	0.00E+00	3.80E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 801 [INDICATOR - SW @ 0.71 miles]

Sample ID: 598212	Sample Dates: 11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<3.06E+01	0.00E+00	3.06E+01
			Cs-137	<3.25E+01	0.00E+00	3.25E+01
			BaLa-140	<4.78E+01	0.00E+00	4.78E+01
			Be-7	1.23E+03	3.24E+02	3.24E+02
			K-40	2.95E+03	6.39E+02	2.99E+02

Sample ID: 602260	Sample Dates: 12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.01E+01	0.00E+00	2.01E+01
			Co-58	<2.46E+01	0.00E+00	2.46E+01
			Fe-59	<7.77E+01	0.00E+00	7.77E+01
			Co-60	<2.59E+01	0.00E+00	2.59E+01
			Zn-65	<5.59E+01	0.00E+00	5.59E+01
			Zr-95	<4.57E+01	0.00E+00	4.57E+01
			Nb-95	<3.13E+01	0.00E+00	3.13E+01
			I-131	<4.87E+01	0.00E+00	4.87E+01
			Cs-134	<3.11E+01	0.00E+00	3.11E+01
			Cs-137	<2.67E+01	0.00E+00	2.67E+01
			BaLa-140	<5.31E+01	0.00E+00	5.31E+01
			Be-7	7.35E+02	2.72E+02	3.46E+02
			K-40	2.67E+03	6.00E+02	4.48E+02

Sample Point 802 [CONTROL - WNW @ 10.4 miles]

Sample ID: 582962	Sample Dates: 1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.81E+01	0.00E+00	4.81E+01
			Co-58	<4.40E+01	0.00E+00	4.40E+01
			Fe-59	<8.08E+01	0.00E+00	8.08E+01
			Co-60	<5.56E+01	0.00E+00	5.56E+01
			Zn-65	<1.08E+02	0.00E+00	1.08E+02
			Zr-95	<7.93E+01	0.00E+00	7.93E+01
			Nb-95	<4.57E+01	0.00E+00	4.57E+01
			I-131	<3.84E+01	0.00E+00	3.84E+01
			Cs-134	<5.59E+01	0.00E+00	5.59E+01
			Cs-137	<3.72E+01	0.00E+00	3.72E+01
			BaLa-140	<4.35E+01	0.00E+00	4.35E+01
			Be-7	2.66E+03	5.67E+02	5.59E+02
			K-40	1.56E+03	5.30E+02	3.99E+02

Sample ID: 584930	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.89E+01	0.00E+00	1.89E+01
			Co-58	<1.81E+01	0.00E+00	1.81E+01
			Fe-59	<3.70E+01	0.00E+00	3.70E+01
			Co-60	<1.63E+01	0.00E+00	1.63E+01
			Zn-65	<3.59E+01	0.00E+00	3.59E+01
			Zr-95	<3.28E+01	0.00E+00	3.28E+01
			Nb-95	<2.17E+01	0.00E+00	2.17E+01
			I-131	<2.31E+01	0.00E+00	2.31E+01
			Cs-134	<1.70E+01	0.00E+00	1.70E+01
			Cs-137	<1.59E+01	0.00E+00	1.59E+01
			BaLa-140	<2.06E+01	0.00E+00	2.06E+01
			Be-7	1.66E+03	3.19E+02	3.67E+02
			K-40	2.26E+03	3.86E+02	2.50E+02

Sample ID: 586077	Sample Dates: 3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.64E+01	0.00E+00	1.64E+01
			Co-58	<1.59E+01	0.00E+00	1.59E+01
			Fe-59	<2.56E+01	0.00E+00	2.56E+01
			Co-60	<1.80E+01	0.00E+00	1.80E+01
			Zn-65	<3.25E+01	0.00E+00	3.25E+01
			Zr-95	<2.76E+01	0.00E+00	2.76E+01
			Nb-95	<1.56E+01	0.00E+00	1.56E+01
			I-131	<1.86E+01	0.00E+00	1.86E+01
			Cs-134	<2.72E+01	0.00E+00	2.72E+01
			Cs-137	<2.00E+01	0.00E+00	2.00E+01
			BaLa-140	<2.00E+01	0.00E+00	2.00E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 802 [CONTROL - WNW @ 10.4 miles]

Sample ID:	586077	Sample Dates:	3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Be-7	3.69E+03	4.38E+02	2.02E+02
					K-40	2.21E+03	3.74E+02	2.53E+02
Sample ID:	587434	Sample Dates:	4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.33E+01	0.00E+00	2.33E+01
					Co-58	<1.81E+01	0.00E+00	1.81E+01
					Fe-59	<3.61E+01	0.00E+00	3.61E+01
					Co-60	<1.57E+01	0.00E+00	1.57E+01
					Zn-65	<3.75E+01	0.00E+00	3.75E+01
					Zr-95	<2.78E+01	0.00E+00	2.78E+01
					Nb-95	<1.79E+01	0.00E+00	1.79E+01
					I-131	<2.55E+01	0.00E+00	2.55E+01
					Cs-134	<1.81E+01	0.00E+00	1.81E+01
					Cs-137	2.31E+01	1.64E+01	2.56E+01
					BaLa-140	<2.46E+01	0.00E+00	2.46E+01
					Be-7	2.78E+03	3.44E+02	2.31E+02
					K-40	2.24E+03	3.52E+02	2.50E+02
Sample ID:	589548	Sample Dates:	5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.07E+01	0.00E+00	2.07E+01
					Co-58	<1.80E+01	0.00E+00	1.80E+01
					Fe-59	<2.83E+01	0.00E+00	2.83E+01
					Co-60	<1.76E+01	0.00E+00	1.76E+01
					Zn-65	<4.53E+01	0.00E+00	4.53E+01
					Zr-95	<3.39E+01	0.00E+00	3.39E+01
					Nb-95	<1.93E+01	0.00E+00	1.93E+01
					I-131	<2.43E+01	0.00E+00	2.43E+01
					Cs-134	<2.11E+01	0.00E+00	2.11E+01
					Cs-137	<2.24E+01	0.00E+00	2.24E+01
					BaLa-140	<2.42E+01	0.00E+00	2.42E+01
					Be-7	1.61E+03	2.68E+02	2.17E+02
					K-40	3.22E+03	4.81E+02	3.39E+01
Sample ID:	590490	Sample Dates:	6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.24E+01	0.00E+00	2.24E+01
					Co-58	<2.19E+01	0.00E+00	2.19E+01
					Fe-59	<4.83E+01	0.00E+00	4.83E+01
					Co-60	<1.94E+01	0.00E+00	1.94E+01
					Zn-65	<4.87E+01	0.00E+00	4.87E+01
					Zr-95	<3.41E+01	0.00E+00	3.41E+01
					Nb-95	<2.08E+01	0.00E+00	2.08E+01
					I-131	<2.69E+01	0.00E+00	2.69E+01
					Cs-134	<2.33E+01	0.00E+00	2.33E+01
					Cs-137	<2.67E+01	0.00E+00	2.67E+01
					BaLa-140	<2.85E+01	0.00E+00	2.85E+01
					Be-7	6.43E+02	1.95E+02	2.43E+02
					K-40	3.26E+03	5.27E+02	3.03E+02
Sample ID:	591625	Sample Dates:	7/2/2023 - 7/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.64E+01	0.00E+00	3.64E+01
					Co-58	<3.53E+01	0.00E+00	3.53E+01
					Fe-59	<5.87E+01	0.00E+00	5.87E+01
					Co-60	<4.53E+01	0.00E+00	4.53E+01
					Zn-65	<8.41E+01	0.00E+00	8.41E+01
					Zr-95	<6.12E+01	0.00E+00	6.12E+01
					Nb-95	<3.33E+01	0.00E+00	3.33E+01
					I-131	<3.83E+01	0.00E+00	3.83E+01
					Cs-134	<4.40E+01	0.00E+00	4.40E+01
					Cs-137	<3.80E+01	0.00E+00	3.80E+01
					BaLa-140	<3.30E+01	0.00E+00	3.30E+01
					Be-7	8.58E+02	3.25E+02	4.19E+02
					K-40	4.91E+03	8.88E+02	3.68E+02
Sample ID:	593006	Sample Dates:	8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.41E+01	0.00E+00	1.41E+01
					Co-58	<1.38E+01	0.00E+00	1.38E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 802 [CONTROL - WNW @ 10.4 miles]

Sample ID: 593006	Sample Dates: 8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<3.22E+01	0.00E+00	3.22E+01
			Co-60	<1.60E+01	0.00E+00	1.60E+01
			Zn-65	<3.42E+01	0.00E+00	3.42E+01
			Zr-95	<2.14E+01	0.00E+00	2.14E+01
			Nb-95	<1.46E+01	0.00E+00	1.46E+01
			I-131	<2.20E+01	0.00E+00	2.20E+01
			Cs-134	<1.91E+01	0.00E+00	1.91E+01
			Cs-137	<1.48E+01	0.00E+00	1.48E+01
			BaLa-140	<1.86E+01	0.00E+00	1.86E+01
			Be-7	2.31E+03	3.31E+02	2.23E+02
			K-40	2.22E+03	3.77E+02	3.31E+01
Sample ID: 594284	Sample Dates: 9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.65E+01	0.00E+00	1.65E+01
			Co-58	<2.07E+01	0.00E+00	2.07E+01
			Fe-59	<4.59E+01	0.00E+00	4.59E+01
			Co-60	<2.87E+01	0.00E+00	2.87E+01
			Zn-65	<5.08E+01	0.00E+00	5.08E+01
			Zr-95	<2.73E+01	0.00E+00	2.73E+01
			Nb-95	<2.21E+01	0.00E+00	2.21E+01
			I-131	<2.84E+01	0.00E+00	2.84E+01
			Cs-134	<2.83E+01	0.00E+00	2.83E+01
			Cs-137	<2.43E+01	0.00E+00	2.43E+01
			BaLa-140	<3.38E+01	0.00E+00	3.38E+01
			Be-7	1.61E+03	2.98E+02	2.20E+02
			K-40	1.63E+03	4.08E+02	3.39E+02
Sample ID: 596395	Sample Dates: 10/3/2023 - 10/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.33E+01	0.00E+00	2.33E+01
			Co-58	<2.33E+01	0.00E+00	2.33E+01
			Fe-59	<2.79E+01	0.00E+00	2.79E+01
			Co-60	<2.13E+01	0.00E+00	2.13E+01
			Zn-65	<5.23E+01	0.00E+00	5.23E+01
			Zr-95	<4.21E+01	0.00E+00	4.21E+01
			Nb-95	<2.18E+01	0.00E+00	2.18E+01
			I-131	<4.10E+01	0.00E+00	4.10E+01
			Cs-134	<2.41E+01	0.00E+00	2.41E+01
			Cs-137	<2.86E+01	0.00E+00	2.86E+01
			BaLa-140	<4.07E+01	0.00E+00	4.07E+01
			Be-7	1.22E+03	2.99E+02	3.40E+02
			K-40	2.87E+03	5.47E+02	3.81E+02
Sample ID: 598213	Sample Dates: 11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.78E+01	0.00E+00	3.78E+01
			Co-58	<3.04E+01	0.00E+00	3.04E+01
			Fe-59	<1.46E+01	0.00E+00	1.46E+01
			Co-60	<3.92E+01	0.00E+00	3.92E+01
			Zn-65	<8.12E+01	0.00E+00	8.12E+01
			Zr-95	<4.84E+01	0.00E+00	4.84E+01
			Nb-95	<3.87E+01	0.00E+00	3.87E+01
			I-131	<5.25E+01	0.00E+00	5.25E+01
			Cs-134	<3.32E+01	0.00E+00	3.32E+01
			Cs-137	<3.46E+01	0.00E+00	3.46E+01
			BaLa-140	<6.23E+01	0.00E+00	6.23E+01
			Be-7	2.38E+03	4.78E+02	3.83E+02
			K-40	2.93E+03	7.08E+02	4.89E+02
Sample ID: 602261	Sample Dates: 12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.56E+01	0.00E+00	2.56E+01
			Co-58	<2.66E+01	0.00E+00	2.66E+01
			Fe-59	<5.58E+01	0.00E+00	5.58E+01
			Co-60	<3.47E+01	0.00E+00	3.47E+01
			Zn-65	<6.15E+01	0.00E+00	6.15E+01
			Zr-95	<4.87E+01	0.00E+00	4.87E+01
			Nb-95	<1.86E+01	0.00E+00	1.86E+01
			I-131	<4.48E+01	0.00E+00	4.48E+01

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BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 802 [CONTROL - WNW @ 10.4 miles]

Sample ID:	602261	Sample Dates:	12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Cs-134	<3.26E+01	0.00E+00	3.26E+01
					Cs-137	<2.31E+01	0.00E+00	2.31E+01
					BaLa-140	<3.89E+01	0.00E+00	3.89E+01
					Be-7	1.08E+03	3.07E+02	3.52E+02
					K-40	2.53E+03	5.44E+02	2.85E+02

Sample Point 803 [INDICATOR - SSE @ 0.48 miles]

Sample ID:	582963	Sample Dates:	1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.99E+01	0.00E+00	2.99E+01
					Co-58	<3.77E+01	0.00E+00	3.77E+01
					Fe-59	<5.62E+01	0.00E+00	5.62E+01
					Co-60	<3.04E+01	0.00E+00	3.04E+01
					Zn-65	<7.80E+01	0.00E+00	7.80E+01
					Zr-95	<5.30E+01	0.00E+00	5.30E+01
					Nb-95	<2.97E+01	0.00E+00	2.97E+01
					I-131	<3.07E+01	0.00E+00	3.07E+01
					Cs-134	<4.33E+01	0.00E+00	4.33E+01
					Cs-137	<3.15E+01	0.00E+00	3.15E+01
					BaLa-140	<3.06E+01	0.00E+00	3.06E+01
					Be-7	3.35E+03	5.22E+02	4.26E+02
					K-40	3.09E+03	6.35E+02	5.01E+02

Sample ID:	584931	Sample Dates:	2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.73E+01	0.00E+00	1.73E+01
					Co-58	<1.40E+01	0.00E+00	1.40E+01
					Fe-59	<3.25E+01	0.00E+00	3.25E+01
					Co-60	<1.39E+01	0.00E+00	1.39E+01
					Zn-65	<3.48E+01	0.00E+00	3.48E+01
					Zr-95	<2.37E+01	0.00E+00	2.37E+01
					Nb-95	<1.68E+01	0.00E+00	1.68E+01
					I-131	<2.07E+01	0.00E+00	2.07E+01
					Cs-134	<1.90E+01	0.00E+00	1.90E+01
					Cs-137	<1.28E+01	0.00E+00	1.28E+01
					BaLa-140	<1.92E+01	0.00E+00	1.92E+01
					Be-7	1.47E+03	2.34E+02	2.00E+02
					K-40	2.71E+03	3.98E+02	1.61E+02

Sample ID:	586078	Sample Dates:	3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.44E+01	0.00E+00	1.44E+01
					Co-58	<1.67E+01	0.00E+00	1.67E+01
					Fe-59	<3.23E+01	0.00E+00	3.23E+01
					Co-60	<1.46E+01	0.00E+00	1.46E+01
					Zn-65	<3.74E+01	0.00E+00	3.74E+01
					Zr-95	<2.89E+01	0.00E+00	2.89E+01
					Nb-95	<1.77E+01	0.00E+00	1.77E+01
					I-131	<1.70E+01	0.00E+00	1.70E+01
					Cs-134	<1.76E+01	0.00E+00	1.76E+01
					Cs-137	<1.80E+01	0.00E+00	1.80E+01
					BaLa-140	<1.87E+01	0.00E+00	1.87E+01
					Be-7	3.21E+03	3.98E+02	2.17E+02
					K-40	1.97E+03	3.56E+02	2.57E+02

Sample ID:	587435	Sample Dates:	4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.57E+01	0.00E+00	2.57E+01
					Co-58	<1.63E+01	0.00E+00	1.63E+01
					Fe-59	<5.18E+01	0.00E+00	5.18E+01
					Co-60	<2.24E+01	0.00E+00	2.24E+01
					Zn-65	<4.48E+01	0.00E+00	4.48E+01
					Zr-95	<3.42E+01	0.00E+00	3.42E+01
					Nb-95	<2.27E+01	0.00E+00	2.27E+01
					I-131	<2.36E+01	0.00E+00	2.36E+01
					Cs-134	<1.90E+01	0.00E+00	1.90E+01
					Cs-137	<2.01E+01	0.00E+00	2.01E+01
					BaLa-140	<1.59E+01	0.00E+00	1.59E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 803 [INDICATOR - SSE @ 0.48 miles]

Sample ID:	587435	Sample Dates:	4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Be-7	1.77E+03	2.32E+02	2.20E+02
					K-40	2.77E+03	4.90E+02	3.34E+02
Sample ID:	589549	Sample Dates:	5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.56E+01	0.00E+00	1.56E+01
					Co-58	<1.62E+01	0.00E+00	1.62E+01
					Fe-59	<2.98E+01	0.00E+00	2.98E+01
					Co-60	<2.13E+01	0.00E+00	2.13E+01
					Zn-65	<4.37E+01	0.00E+00	4.37E+01
					Zr-95	<2.74E+01	0.00E+00	2.74E+01
					Nb-95	<1.68E+01	0.00E+00	1.68E+01
					I-131	<2.13E+01	0.00E+00	2.13E+01
					Cs-134	<1.70E+01	0.00E+00	1.70E+01
					Cs-137	<1.63E+01	0.00E+00	1.63E+01
					BaLa-140	<2.05E+01	0.00E+00	2.05E+01
					Be-7	9.86E+02	1.87E+02	1.68E+02
					K-40	3.15E+03	4.73E+02	2.73E+02
Sample ID:	590491	Sample Dates:	6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.22E+01	0.00E+00	2.22E+01
					Co-58	<2.56E+01	0.00E+00	2.56E+01
					Fe-59	<3.81E+01	0.00E+00	3.81E+01
					Co-60	<2.58E+01	0.00E+00	2.58E+01
					Zn-65	<5.12E+01	0.00E+00	5.12E+01
					Zr-95	<4.35E+01	0.00E+00	4.35E+01
					Nb-95	<2.51E+01	0.00E+00	2.51E+01
					I-131	<3.32E+01	0.00E+00	3.32E+01
					Cs-134	<2.75E+01	0.00E+00	2.75E+01
					Cs-137	<2.25E+01	0.00E+00	2.25E+01
					BaLa-140	<2.93E+01	0.00E+00	2.93E+01
					Be-7	1.44E+03	2.92E+02	2.93E+02
					K-40	3.24E+03	5.56E+02	3.76E+02
Sample ID:	591626	Sample Dates:	7/2/2023 - 7/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.55E+01	0.00E+00	2.55E+01
					Co-58	<3.73E+01	0.00E+00	3.73E+01
					Fe-59	<8.22E+01	0.00E+00	8.22E+01
					Co-60	<4.03E+01	0.00E+00	4.03E+01
					Zn-65	<6.46E+01	0.00E+00	6.46E+01
					Zr-95	<6.19E+01	0.00E+00	6.19E+01
					Nb-95	<4.25E+01	0.00E+00	4.25E+01
					I-131	<3.80E+01	0.00E+00	3.80E+01
					Cs-134	<4.13E+01	0.00E+00	4.13E+01
					Cs-137	<2.89E+01	0.00E+00	2.89E+01
					BaLa-140	<3.30E+01	0.00E+00	3.30E+01
					Be-7	1.50E+03	3.61E+02	3.21E+02
					K-40	3.77E+03	8.06E+02	5.70E+02
Sample ID:	593007	Sample Dates:	8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.86E+01	0.00E+00	1.86E+01
					Co-58	<1.72E+01	0.00E+00	1.72E+01
					Fe-59	<4.03E+01	0.00E+00	4.03E+01
					Co-60	<1.88E+01	0.00E+00	1.88E+01
					Zn-65	<3.73E+01	0.00E+00	3.73E+01
					Zr-95	<2.48E+01	0.00E+00	2.48E+01
					Nb-95	<2.20E+01	0.00E+00	2.20E+01
					I-131	<2.57E+01	0.00E+00	2.57E+01
					Cs-134	<2.01E+01	0.00E+00	2.01E+01
					Cs-137	<1.79E+01	0.00E+00	1.79E+01
					BaLa-140	<2.65E+01	0.00E+00	2.65E+01
					Be-7	2.19E+03	3.34E+02	2.40E+02
					K-40	2.73E+03	4.74E+02	3.28E+02
Sample ID:	594285	Sample Dates:	9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.14E+01	0.00E+00	3.14E+01
					Co-58	<2.43E+01	0.00E+00	2.43E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 803 [INDICATOR - SSE @ 0.48 miles]

Sample ID:	594285	Sample Dates:	9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Fe-59	<4.10E+01	0.00E+00	4.10E+01
					Co-60	<2.96E+01	0.00E+00	2.96E+01
					Zn-65	<6.31E+01	0.00E+00	6.31E+01
					Zr-95	<5.11E+01	0.00E+00	5.11E+01
					Nb-95	<2.99E+01	0.00E+00	2.99E+01
					I-131	<4.91E+01	0.00E+00	4.91E+01
					Cs-134	<2.90E+01	0.00E+00	2.90E+01
					Cs-137	<2.25E+01	0.00E+00	2.25E+01
					BaLa-140	<4.25E+01	0.00E+00	4.25E+01
					Be-7	2.53E+03	4.44E+02	3.51E+02
					K-40	3.20E+03	6.29E+02	3.98E+02

Sample ID:	596396	Sample Dates:	10/3/2023 - 10/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.04E+01	0.00E+00	2.04E+01
					Co-58	<2.11E+01	0.00E+00	2.11E+01
					Fe-59	<5.19E+01	0.00E+00	5.19E+01
					Co-60	<2.94E+01	0.00E+00	2.94E+01
					Zn-65	<4.39E+01	0.00E+00	4.39E+01
					Zr-95	<4.71E+01	0.00E+00	4.71E+01
					Nb-95	<2.83E+01	0.00E+00	2.83E+01
					I-131	<4.44E+01	0.00E+00	4.44E+01
					Cs-134	<2.99E+01	0.00E+00	2.99E+01
					Cs-137	<1.87E+01	0.00E+00	1.87E+01
					BaLa-140	<4.36E+01	0.00E+00	4.36E+01
					Be-7	2.82E+03	4.47E+02	3.58E+02
					K-40	2.41E+03	4.97E+02	3.54E+02

Sample ID:	598214	Sample Dates:	11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.90E+01	0.00E+00	2.90E+01
					Co-58	<3.19E+01	0.00E+00	3.19E+01
					Fe-59	<6.32E+01	0.00E+00	6.32E+01
					Co-60	<2.36E+01	0.00E+00	2.36E+01
					Zn-65	<7.38E+01	0.00E+00	7.38E+01
					Zr-95	<6.23E+01	0.00E+00	6.23E+01
					Nb-95	<2.43E+01	0.00E+00	2.43E+01
					I-131	<4.81E+01	0.00E+00	4.81E+01
					Cs-134	<3.72E+01	0.00E+00	3.72E+01
					Cs-137	<3.71E+01	0.00E+00	3.71E+01
					BaLa-140	<3.72E+01	0.00E+00	3.72E+01
					Be-7	1.60E+03	3.91E+02	3.67E+02
					K-40	2.30E+03	6.04E+02	3.99E+02

Sample ID:	602262	Sample Dates:	12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.16E+01	0.00E+00	2.16E+01
					Co-58	<2.09E+01	0.00E+00	2.09E+01
					Fe-59	<4.52E+01	0.00E+00	4.52E+01
					Co-60	<2.37E+01	0.00E+00	2.37E+01
					Zn-65	<6.18E+01	0.00E+00	6.18E+01
					Zr-95	<4.40E+01	0.00E+00	4.40E+01
					Nb-95	<2.85E+01	0.00E+00	2.85E+01
					I-131	<3.03E+01	0.00E+00	3.03E+01
					Cs-134	<2.84E+01	0.00E+00	2.84E+01
					Cs-137	<1.92E+01	0.00E+00	1.92E+01
					BaLa-140	<3.74E+01	0.00E+00	3.74E+01
					Be-7	1.54E+03	3.43E+02	3.36E+02
					K-40	2.16E+03	4.83E+02	2.47E+02

Sample Point 804 [INDICATOR - S @ 0.67 miles]

Sample ID:	582964	Sample Dates:	1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.62E+01	0.00E+00	3.62E+01
					Co-58	<3.59E+01	0.00E+00	3.59E+01
					Fe-59	<4.25E+01	0.00E+00	4.25E+01
					Co-60	<4.02E+01	0.00E+00	4.02E+01
					Zn-65	<9.17E+01	0.00E+00	9.17E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 804 [INDICATOR - S @ 0.67 miles]

Sample ID: 582964	Sample Dates: 1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Zr-95	<6.61E+01	0.00E+00	6.61E+01
			Nb-95	<3.45E+01	0.00E+00	3.45E+01
			I-131	<4.09E+01	0.00E+00	4.09E+01
			Cs-134	<3.79E+01	0.00E+00	3.79E+01
			Cs-137	<3.75E+01	0.00E+00	3.75E+01
			BaLa-140	<3.48E+01	0.00E+00	3.48E+01
			Be-7	1.98E+03	4.80E+02	4.80E+02
Sample ID: 584932	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	K-40	2.01E+03	7.33E+02	8.53E+02
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.05E+01	0.00E+00	2.05E+01
			Co-58	<2.09E+01	0.00E+00	2.09E+01
			Fe-59	<4.25E+01	0.00E+00	4.25E+01
			Co-60	<2.59E+01	0.00E+00	2.59E+01
			Zn-65	<3.46E+01	0.00E+00	3.46E+01
			Zr-95	<2.92E+01	0.00E+00	2.92E+01
Sample ID: 586079	Sample Dates: 3/1/2023 - 3/1/2023	WAXMYRTLE	Nb-95	<2.13E+01	0.00E+00	2.13E+01
			I-131	<2.77E+01	0.00E+00	2.77E+01
			Cs-134	<1.84E+01	0.00E+00	1.84E+01
			Cs-137	<1.89E+01	0.00E+00	1.89E+01
			BaLa-140	<1.73E+01	0.00E+00	1.73E+01
			Be-7	1.78E+03	2.92E+02	2.59E+02
			K-40	1.83E+03	3.54E+02	2.41E+02
Sample ID: 587436	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.60E+01	0.00E+00	1.60E+01
			Co-58	<1.58E+01	0.00E+00	1.58E+01
			Fe-59	<3.25E+01	0.00E+00	3.25E+01
			Co-60	<1.69E+01	0.00E+00	1.69E+01
			Zn-65	<2.65E+01	0.00E+00	2.65E+01
			Zr-95	<2.81E+01	0.00E+00	2.81E+01
			Nb-95	<1.49E+01	0.00E+00	1.49E+01
Sample ID: 587436	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	I-131	<1.60E+01	0.00E+00	1.60E+01
			Cs-134	<1.92E+01	0.00E+00	1.92E+01
			Cs-137	<1.79E+01	0.00E+00	1.79E+01
			BaLa-140	<1.39E+01	0.00E+00	1.39E+01
			Be-7	3.55E+03	4.21E+02	2.23E+02
			K-40	2.39E+03	4.06E+02	3.09E+02
Sample ID: 587436	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.50E+01	0.00E+00	2.50E+01
			Co-58	<2.51E+01	0.00E+00	2.51E+01
			Fe-59	<5.02E+01	0.00E+00	5.02E+01
			Co-60	<2.27E+01	0.00E+00	2.27E+01
			Zn-65	<6.18E+01	0.00E+00	6.18E+01
			Zr-95	<4.56E+01	0.00E+00	4.56E+01
			Nb-95	<2.64E+01	0.00E+00	2.64E+01
Sample ID: 587436	Sample Dates: 4/1/2023 - 4/1/2023	WAXMYRTLE	I-131	<3.99E+01	0.00E+00	3.99E+01
			Cs-134	<3.18E+01	0.00E+00	3.18E+01
			Cs-137	<2.63E+01	0.00E+00	2.63E+01
			BaLa-140	<3.66E+01	0.00E+00	3.66E+01
			Be-7	1.59E+03	3.12E+02	3.16E+02
			K-40	3.07E+03	5.40E+02	3.29E+02
Sample ID: 589550	Sample Dates: 5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.27E+01	0.00E+00	2.27E+01
			Co-58	<2.20E+01	0.00E+00	2.20E+01
			Fe-59	<3.04E+01	0.00E+00	3.04E+01
			Co-60	<2.33E+01	0.00E+00	2.33E+01
			Zn-65	<5.51E+01	0.00E+00	5.51E+01
			Zr-95	<4.13E+01	0.00E+00	4.13E+01
			Nb-95	<2.44E+01	0.00E+00	2.44E+01
Sample ID: 589550	Sample Dates: 5/1/2023 - 5/1/2023	WAXMYRTLE	I-131	<2.55E+01	0.00E+00	2.55E+01
			Cs-134	<2.48E+01	0.00E+00	2.48E+01
			Cs-137	<2.05E+01	0.00E+00	2.05E+01
			BaLa-140	<2.59E+01	0.00E+00	2.59E+01

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BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 804 [INDICATOR - S @ 0.67 miles]

Sample ID: 589550	Sample Dates: 5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	8.33E+02	2.15E+02	2.54E+02
			K-40	3.38E+03	5.39E+02	3.34E+02
Sample ID: 590492	Sample Dates: 6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.52E+01	0.00E+00	2.52E+01
			Co-58	<2.26E+01	0.00E+00	2.26E+01
			Fe-59	<3.81E+01	0.00E+00	3.81E+01
			Co-60	<1.75E+01	0.00E+00	1.75E+01
			Zn-65	<4.85E+01	0.00E+00	4.85E+01
			Zr-95	<3.85E+01	0.00E+00	3.85E+01
			Nb-95	<2.36E+01	0.00E+00	2.36E+01
			I-131	<3.33E+01	0.00E+00	3.33E+01
			Cs-134	<2.58E+01	0.00E+00	2.58E+01
			Cs-137	<2.35E+01	0.00E+00	2.35E+01
			BaLa-140	<3.18E+01	0.00E+00	3.18E+01
			Be-7	1.62E+03	3.10E+02	3.25E+02
Sample ID: 591627	Sample Dates: 7/3/2023 - 7/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.59E+01	0.00E+00	4.59E+01
			Co-58	<3.44E+01	0.00E+00	3.44E+01
			Fe-59	<7.40E+01	0.00E+00	7.40E+01
			Co-60	<4.95E+01	0.00E+00	4.95E+01
			Zn-65	<1.09E+02	0.00E+00	1.09E+02
			Zr-95	<5.97E+01	0.00E+00	5.97E+01
			Nb-95	<4.66E+01	0.00E+00	4.66E+01
			I-131	<4.31E+01	0.00E+00	4.31E+01
			Cs-134	<4.27E+01	0.00E+00	4.27E+01
			Cs-137	<4.44E+01	0.00E+00	4.44E+01
			BaLa-140	<4.98E+01	0.00E+00	4.98E+01
			Be-7	1.98E+03	4.79E+02	5.11E+02
Sample ID: 593008	Sample Dates: 8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.11E+01	0.00E+00	2.11E+01
			Co-58	<1.61E+01	0.00E+00	1.61E+01
			Fe-59	<3.98E+01	0.00E+00	3.98E+01
			Co-60	<2.63E+01	0.00E+00	2.63E+01
			Zn-65	<4.82E+01	0.00E+00	4.82E+01
			Zr-95	<3.52E+01	0.00E+00	3.52E+01
			Nb-95	<2.55E+01	0.00E+00	2.55E+01
			I-131	<2.68E+01	0.00E+00	2.68E+01
			Cs-134	<2.12E+01	0.00E+00	2.12E+01
			Cs-137	<1.89E+01	0.00E+00	1.89E+01
			BaLa-140	<1.82E+01	0.00E+00	1.82E+01
			Be-7	3.58E+03	4.75E+02	2.43E+02
Sample ID: 594286	Sample Dates: 9/5/2023 - 9/5/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.11E+01	0.00E+00	3.11E+01
			Co-58	<2.88E+01	0.00E+00	2.88E+01
			Fe-59	<5.48E+01	0.00E+00	5.48E+01
			Co-60	<2.14E+01	0.00E+00	2.14E+01
			Zn-65	<5.72E+01	0.00E+00	5.72E+01
			Zr-95	<4.57E+01	0.00E+00	4.57E+01
			Nb-95	<3.70E+01	0.00E+00	3.70E+01
			I-131	<5.11E+01	0.00E+00	5.11E+01
			Cs-134	<3.47E+01	0.00E+00	3.47E+01
			Cs-137	<2.78E+01	0.00E+00	2.78E+01
			BaLa-140	<3.75E+01	0.00E+00	3.75E+01
			Be-7	1.50E+03	3.40E+02	3.28E+02
Sample ID: 596397	Sample Dates: 10/3/2023 - 10/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.27E+01	0.00E+00	3.27E+01
			Co-58	<4.23E+01	0.00E+00	4.23E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 804 [INDICATOR - S @ 0.67 miles]

Sample ID: 596397	Sample Dates: 10/3/2023 - 10/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<7.13E+01	0.00E+00	7.13E+01
			Co-60	<4.22E+01	0.00E+00	4.22E+01
			Zn-65	<1.04E+02	0.00E+00	1.04E+02
			Zr-95	<7.37E+01	0.00E+00	7.37E+01
			Nb-95	<4.06E+01	0.00E+00	4.06E+01
			I-131	<4.80E+01	0.00E+00	4.80E+01
			Cs-134	<3.98E+01	0.00E+00	3.98E+01
			Cs-137	<4.14E+01	0.00E+00	4.14E+01
			BaLa-140	<6.36E+01	0.00E+00	6.36E+01
			Be-7	2.90E+03	5.50E+02	3.16E+02
			K-40	2.75E+03	7.44E+02	5.45E+02

Sample ID: 598215	Sample Dates: 11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.78E+01	0.00E+00	2.78E+01
			Co-58	<2.54E+01	0.00E+00	2.54E+01
			Fe-59	<8.71E+01	0.00E+00	8.71E+01
			Co-60	<3.59E+01	0.00E+00	3.59E+01
			Zn-65	<9.31E+01	0.00E+00	9.31E+01
			Zr-95	<5.79E+01	0.00E+00	5.79E+01
			Nb-95	<3.34E+01	0.00E+00	3.34E+01
			I-131	<3.86E+01	0.00E+00	3.86E+01
			Cs-134	<1.90E+01	0.00E+00	1.90E+01
			Cs-137	<4.04E+01	0.00E+00	4.04E+01
			BaLa-140	<3.88E+01	0.00E+00	3.88E+01
			Be-7	2.10E+03	4.71E+02	4.37E+02
			K-40	2.29E+03	6.37E+02	5.08E+02

Sample ID: 602263	Sample Dates: 12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.03E+01	0.00E+00	2.03E+01
			Co-58	<2.57E+01	0.00E+00	2.57E+01
			Fe-59	<5.00E+01	0.00E+00	5.00E+01
			Co-60	<2.67E+01	0.00E+00	2.67E+01
			Zn-65	<5.17E+01	0.00E+00	5.17E+01
			Zr-95	<4.70E+01	0.00E+00	4.70E+01
			Nb-95	<2.64E+01	0.00E+00	2.64E+01
			I-131	<3.79E+01	0.00E+00	3.79E+01
			Cs-134	<2.88E+01	0.00E+00	2.88E+01
			Cs-137	<2.36E+01	0.00E+00	2.36E+01
			BaLa-140	<4.38E+01	0.00E+00	4.38E+01
			Be-7	2.13E+03	3.80E+02	2.47E+02
			K-40	2.80E+03	5.64E+02	2.63E+02

Sample Point 805 [INDICATOR - NE @ 0.8 miles]

Sample ID: 582965	Sample Dates: 1/3/2023 - 1/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.27E+01	0.00E+00	3.27E+01
			Co-58	<3.10E+01	0.00E+00	3.10E+01
			Fe-59	<4.49E+01	0.00E+00	4.49E+01
			Co-60	<2.91E+01	0.00E+00	2.91E+01
			Zn-65	<6.78E+01	0.00E+00	6.78E+01
			Zr-95	<4.14E+01	0.00E+00	4.14E+01
			Nb-95	<3.17E+01	0.00E+00	3.17E+01
			I-131	<3.16E+01	0.00E+00	3.16E+01
			Cs-134	<3.36E+01	0.00E+00	3.36E+01
			Cs-137	<2.97E+01	0.00E+00	2.97E+01
			BaLa-140	<3.22E+01	0.00E+00	3.22E+01
			Be-7	1.21E+03	3.17E+02	3.86E+02
			K-40	2.88E+03	5.68E+02	3.88E+02

Sample ID: 584933	Sample Dates: 2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.06E+01	0.00E+00	1.06E+01
			Co-58	<9.50E+00	0.00E+00	9.50E+00
			Fe-59	<2.53E+01	0.00E+00	2.53E+01
			Co-60	<1.18E+01	0.00E+00	1.18E+01
			Zn-65	<2.41E+01	0.00E+00	2.41E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 805 [INDICATOR - NE @ 0.8 miles]

Sample ID:	584933	Sample Dates:	2/1/2023 - 2/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Zr-95	<1.81E+01	0.00E+00	1.81E+01
					Nb-95	<1.09E+01	0.00E+00	1.09E+01
					I-131	<1.91E+01	0.00E+00	1.91E+01
					Cs-134	<1.12E+01	0.00E+00	1.12E+01
					Cs-137	<1.04E+01	0.00E+00	1.04E+01
					BaLa-140	<1.33E+01	0.00E+00	1.33E+01
					Be-7	1.42E+03	1.89E+02	1.32E+02
					K-40	2.76E+03	3.39E+02	1.77E+02

Sample Point 806 [INDICATOR - ENE @ 1.06 miles]

Sample ID:	583453	Sample Dates:	3/1/2023 - 3/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.28E+01	0.00E+00	1.28E+01
					Co-58	<1.55E+01	0.00E+00	1.55E+01
					Fe-59	<2.55E+01	0.00E+00	2.55E+01
					Co-60	<1.86E+01	0.00E+00	1.86E+01
					Zn-65	<3.24E+01	0.00E+00	3.24E+01
					Zr-95	<2.34E+01	0.00E+00	2.34E+01
					Nb-95	<1.42E+01	0.00E+00	1.42E+01
					I-131	<1.72E+01	0.00E+00	1.72E+01
					Cs-134	<1.53E+01	0.00E+00	1.53E+01
					Cs-137	<1.44E+01	0.00E+00	1.44E+01
					BaLa-140	<2.01E+01	0.00E+00	2.01E+01
					Be-7	1.63E+03	2.47E+02	1.86E+02
					K-40	1.87E+03	3.45E+02	2.74E+02

Sample ID:	588523	Sample Dates:	4/1/2023 - 4/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.93E+01	0.00E+00	2.93E+01
					Co-58	<2.50E+01	0.00E+00	2.50E+01
					Fe-59	<4.16E+01	0.00E+00	4.16E+01
					Co-60	<2.45E+01	0.00E+00	2.45E+01
					Zn-65	<5.29E+01	0.00E+00	5.29E+01
					Zr-95	<4.07E+01	0.00E+00	4.07E+01
					Nb-95	<2.46E+01	0.00E+00	2.46E+01
					I-131	<2.75E+01	0.00E+00	2.75E+01
					Cs-134	<1.92E+01	0.00E+00	1.92E+01
					Cs-137	<1.52E+01	0.00E+00	1.52E+01
					BaLa-140	<1.83E+01	0.00E+00	1.83E+01
					Be-7	2.42E+03	3.89E+02	3.08E+02
					K-40	3.61E+03	6.05E+02	3.18E+02

Sample ID:	590163	Sample Dates:	5/1/2023 - 5/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.83E+01	0.00E+00	1.83E+01
					Co-58	<1.66E+01	0.00E+00	1.66E+01
					Fe-59	<3.70E+01	0.00E+00	3.70E+01
					Co-60	<1.54E+01	0.00E+00	1.54E+01
					Zn-65	<4.40E+01	0.00E+00	4.40E+01
					Zr-95	<3.36E+01	0.00E+00	3.36E+01
					Nb-95	<1.87E+01	0.00E+00	1.87E+01
					I-131	<2.25E+01	0.00E+00	2.25E+01
					Cs-134	<1.83E+01	0.00E+00	1.83E+01
					Cs-137	<1.97E+01	0.00E+00	1.97E+01
					BaLa-140	<3.03E+01	0.00E+00	3.03E+01
					Be-7	1.05E+03	2.10E+02	2.05E+02
					K-40	3.53E+03	5.26E+02	2.92E+02

Sample ID:	591511	Sample Dates:	6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.78E+01	0.00E+00	2.78E+01
					Co-58	<2.48E+01	0.00E+00	2.48E+01
					Fe-59	<5.36E+01	0.00E+00	5.36E+01
					Co-60	<2.85E+01	0.00E+00	2.85E+01
					Zn-65	<5.36E+01	0.00E+00	5.36E+01
					Zr-95	<4.41E+01	0.00E+00	4.41E+01
					Nb-95	<2.12E+01	0.00E+00	2.12E+01
					I-131	<3.07E+01	0.00E+00	3.07E+01

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BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 806 [INDICATOR - ENE @ 1.06 miles]

Sample ID: 591511	Sample Dates: 6/1/2023 - 6/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.63E+01	0.00E+00	2.63E+01
			Cs-137	<2.48E+01	0.00E+00	2.48E+01
			BaLa-140	<3.51E+01	0.00E+00	3.51E+01
			Be-7	7.03E+02	2.45E+02	3.34E+02
			K-40	3.91E+03	6.22E+02	3.92E+02
Sample ID: 591628	Sample Dates: 7/2/2023 - 7/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.47E+01	0.00E+00	3.47E+01
			Co-58	<3.12E+01	0.00E+00	3.12E+01
			Fe-59	<8.48E+01	0.00E+00	8.48E+01
			Co-60	<6.19E+01	0.00E+00	6.19E+01
			Zn-65	<8.34E+01	0.00E+00	8.34E+01
			Zr-95	<7.95E+01	0.00E+00	7.95E+01
			Nb-95	<4.65E+01	0.00E+00	4.65E+01
			I-131	<4.68E+01	0.00E+00	4.68E+01
			Cs-134	<4.09E+01	0.00E+00	4.09E+01
			Cs-137	<3.36E+01	0.00E+00	3.36E+01
			BaLa-140	<4.30E+01	0.00E+00	4.30E+01
			Be-7	1.56E+03	4.23E+02	4.76E+02
			K-40	4.19E+03	8.64E+02	5.78E+02
Sample ID: 593009	Sample Dates: 8/1/2023 - 8/1/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.75E+01	0.00E+00	1.75E+01
			Co-58	<1.88E+01	0.00E+00	1.88E+01
			Fe-59	<5.38E+01	0.00E+00	5.38E+01
			Co-60	<1.99E+01	0.00E+00	1.99E+01
			Zn-65	<4.45E+01	0.00E+00	4.45E+01
			Zr-95	<3.78E+01	0.00E+00	3.78E+01
			Nb-95	<1.82E+01	0.00E+00	1.82E+01
			I-131	<2.07E+01	0.00E+00	2.07E+01
			Cs-134	<2.21E+01	0.00E+00	2.21E+01
			Cs-137	<1.52E+01	0.00E+00	1.52E+01
			BaLa-140	<2.70E+01	0.00E+00	2.70E+01
			Be-7	2.63E+03	3.77E+02	2.14E+02
			K-40	2.21E+03	4.59E+02	3.85E+02
Sample ID: 594287	Sample Dates: 9/7/2023 - 9/7/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.14E+01	0.00E+00	2.14E+01
			Co-58	<1.75E+01	0.00E+00	1.75E+01
			Fe-59	<3.24E+01	0.00E+00	3.24E+01
			Co-60	<2.19E+01	0.00E+00	2.19E+01
			Zn-65	<3.26E+01	0.00E+00	3.26E+01
			Zr-95	<3.04E+01	0.00E+00	3.04E+01
			Nb-95	<1.93E+01	0.00E+00	1.93E+01
			I-131	<2.17E+01	0.00E+00	2.17E+01
			Cs-134	<1.99E+01	0.00E+00	1.99E+01
			Cs-137	<1.71E+01	0.00E+00	1.71E+01
			BaLa-140	<2.47E+01	0.00E+00	2.47E+01
			Be-7	9.19E+02	2.12E+02	2.28E+02
			K-40	3.53E+03	5.48E+02	3.14E+02
Sample ID: 596398	Sample Dates: 10/3/2023 - 10/3/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.10E+01	0.00E+00	2.10E+01
			Co-58	<2.48E+01	0.00E+00	2.48E+01
			Fe-59	<4.46E+01	0.00E+00	4.46E+01
			Co-60	<2.17E+01	0.00E+00	2.17E+01
			Zn-65	<3.16E+01	0.00E+00	3.16E+01
			Zr-95	<2.73E+01	0.00E+00	2.73E+01
			Nb-95	<2.13E+01	0.00E+00	2.13E+01
			I-131	<4.17E+01	0.00E+00	4.17E+01
			Cs-134	<2.59E+01	0.00E+00	2.59E+01
			Cs-137	<1.85E+01	0.00E+00	1.85E+01
			BaLa-140	<3.47E+01	0.00E+00	3.47E+01
			Be-7	2.45E+03	3.97E+02	3.31E+02
			K-40	3.49E+03	5.87E+02	3.30E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 806 [INDICATOR - ENE @ 1.06 miles]

Sample ID:	598216	Sample Dates:	11/2/2023 - 11/2/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.62E+01	0.00E+00	2.62E+01
					Co-58	<2.98E+01	0.00E+00	2.98E+01
					Fe-59	<7.55E+01	0.00E+00	7.55E+01
					Co-60	<4.59E+01	0.00E+00	4.59E+01
					Zn-65	<8.69E+01	0.00E+00	8.69E+01
					Zr-95	<6.09E+01	0.00E+00	6.09E+01
					Nb-95	<4.15E+01	0.00E+00	4.15E+01
					I-131	<4.00E+01	0.00E+00	4.00E+01
					Cs-134	<3.84E+01	0.00E+00	3.84E+01
					Cs-137	<4.71E+01	0.00E+00	4.71E+01
					BaLa-140	<4.07E+01	0.00E+00	4.07E+01
					Be-7	1.90E+03	4.28E+02	3.43E+02
					K-40	2.36E+03	6.24E+02	3.32E+02

Sample ID:	602264	Sample Dates:	12/4/2023 - 12/4/2023	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.40E+01	0.00E+00	2.40E+01
					Co-58	<3.98E+01	0.00E+00	3.98E+01
					Fe-59	<5.02E+01	0.00E+00	5.02E+01
					Co-60	<4.24E+01	0.00E+00	4.24E+01
					Zn-65	<5.66E+01	0.00E+00	5.66E+01
					Zr-95	<4.05E+01	0.00E+00	4.05E+01
					Nb-95	<3.31E+01	0.00E+00	3.31E+01
					I-131	<4.72E+01	0.00E+00	4.72E+01
					Cs-134	<3.01E+01	0.00E+00	3.01E+01
					Cs-137	<3.18E+01	0.00E+00	3.18E+01
					BaLa-140	<3.27E+01	0.00E+00	3.27E+01
					Be-7	1.34E+03	3.40E+02	3.57E+02
					K-40	2.13E+03	5.91E+02	6.18E+02

APPENDIX F

**ERRATA TO
PREVIOUS REPORTS**

APPENDIX F

F.1 ERRATA TO THE PREVIOUS AREORs

In Appendix F of the 2022 BSEP AREORs, an error to previous BSEP AREORs was identified with the centerline being used for BNP site sampling point maps. The centerline and waypoint coordinates in Section 2.1, Site Descriptions and Sample Locations, Figures 2.1-1, 2.1-2, 2.1-3, and 2.1-4, and Tables 2.1-A and 2.1-B were not associated with a centerline in the BSEP UFSAR (NCR# 02441863). The correct centerline and waypoints are latitude: 33°57'24.3" North and longitude: 78°0'33.9" West.

This issue was perpetuated in the BSEP 2022 AREOR Figures 2.1-1, 2.1-2, 2.1-3, and 2.1-4, and Tables 2.1-A and 2.1-B to agree with the BNP ODCM Revision 39. These figures and tables are also used in the current 2023 AREOR as BSEP ODCM Revision 39 which was effective through July 11, 2023.

The distances and sectors in BSEP ODCM, Revision 40, Figures 4.0-1, 4.0-3, 4.0-4, and Table 4.0-1, Effective Date July 12, 2023, reflect those associated with the correct centerline and waypoint coordinates found in the BSEP UFSAR. Figure 4.0-2 of BSEP ODCM, Revision 40 still needs to be updated with the correct centerline.

Enclosure 2
RA-24-0031

ENCLOSURE 2: [CNS Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**DUKE ENERGY CORPORATION
CATAWBA NUCLEAR STATION
Units 1 and 2**

2023



TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-1
2.3 Statistical and Calculational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-3
3.2 Drinking Water	3-7
3.3 Surface Water	3-10
3.4 Milk	3-13
3.5 Broadleaf Vegetation	3-15
3.6 Food Products	3-18
3.7 Fish	3-19
3.8 Shoreline Sediment	3-21
3.9 Direct Gamma Radiation	3-24
3.9.1 Environmental TLD	3-24
3.9.2 ISFSI	3-25
3.10 Land Use Census	3-28
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-2
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 Intercomparison Program	4-2
4.7 TLD Intercomparison Program	4-2
Appendices	
Appendix A: Environmental Sampling and Analysis Procedures	A-1
I. Change of Sampling Procedures	A-2
II. Description of Analysis Procedures	A-2
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program Data Summary	B-1
Air Particulate	B-2
Air Radioiodine	B-2
Drinking Water	B-2
Surface Water	B-2
Milk	B-2
Broadleaf Vegetation	B-3
Food Products	B-3
Fish	B-3

Shoreline Sediment	B-3
Direct Gamma Radiation (TLD)	B-3
Appendix C: Catawba Nuclear Station Sampling Deviations & Unavailable Analyses .	C-1
C.1 Sampling Deviations	C-2
C.2 Unavailable Analyses	C-3
Appendix D: Catawba Nuclear Station Analytical Deviations	D-1
D.1 Analytical Deviations	D-2
Appendix E: Radiological Environmental Monitoring Program Results	E-1
Appendix F: Errata to Previous Reports	F-1

LIST OF FIGURES

2.1-1	Catawba Nuclear Station Sampling Locations Map (One Mile Radius) .	2-5
2.1-2	Catawba Nuclear Station Sampling Locations Map (Ten Mile Radius). .	2-6
2.1-3	Catawba Nuclear Station Sampling Locations Map (>Ten Mile Radius) .	2-7
3.1	Concentration of Gross Beta in Air Particulate	3-4
3.2-1	Concentration of Gross Beta in Drinking Water	3-8
3.2-2	Concentration of Tritium in Drinking Water	3-8
3.3	Concentration of Tritium in Surface Water	3-11
3.5	Concentration of Cs-137 in Broadleaf Vegetation	3-16
3.8-1	Concentration of Co-58 in Shoreline Sediment	3-21
3.8-2	Concentration of Co-60 in Shoreline Sediment	3-22
3.8-3	Concentration of Cs-137 in Shoreline Sediment	3-23
3.9	Direct Gamma Radiation (TLD) Results	3-26
3.10	Catawba Nuclear Station 2022 Land Use Census Map.	3-30

LIST OF TABLES

2.1-A	Catawba Radiological Monitoring Program Sampling Locations	2-8
2.1-B	Catawba Radiological Monitoring Program Sampling Locations (TLD Sites) .	2-9
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-10
2.2-B	REMP Analysis Frequency	2-11
2.2-C	Maximum Values for the <i>A Priori</i> Lower Limits of Detection	2-12
3.1-A	Mean Concentration of Gross Beta in Air Particulate	3-5
3.1-B	Mean Concentration of Air Radioiodine (I-131)	3-6
3.2	Mean Concentration of Radionuclides in Drinking Water	3-9
3.3	Mean Concentrations of Radionuclides in Surface Water	3-12
3.4	Mean Concentration of Radionuclides in Milk	3-14
3.5	Mean Concentration of Radionuclides in Broadleaf Vegetation	3-17
3.7	Mean Concentrations of Radionuclides in Fish (pCi/kg).	3-20
3.8	Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg). .	3-23
3.9	Direct Gamma Radiation (TLD) Results	3-27
3.10	Catawba 2022 Land Use Census Results	3-29
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2022 Environmental Dosimeter Cross-Check Results	4-5

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

AREOR	Annual Radiological Environmental Operating Report
BW	BiWeekly
C	Control
CM	Community
CNS	Catawba Nuclear Station
EZA	Eckert & Ziegler Analytics
GPS	Global Positioning System
I	Indicator
IR	Inner Ring
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
LLI	Low Level Iodine
LUC	Land Use Census
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mR/Std Qtr	milliroentgen per standard quarter
MWe	Megawatt (electrical)
NIST	National Institute of Standards and Technology
NCR	Nuclear Condition Report – Corrective Action Program
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OR	Outer Ring
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SI	Special Interest
SLCs	Selected Licensee Commitments
SM	Semimonthly
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
μCi/ml	microcurie per milliliter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Catawba Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by station operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed.

Sampling activities were conducted as prescribed by the Catawba Nuclear Station Offsite Dose Calculated Manual (ODCM) and Selected Licensee Commitments (SLCs). Eight hundred and ninety-eight samples were analyzed comprising nine hundred and fifty test results in order to compile data for the 2023 report. Based on the annual land use census, the current number of sampling sites for Catawba Nuclear Station is sufficient.

Concentrations observed in the environment in 2023 for station related radionuclides were generally within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in drinking water, surface water, and broad leaf vegetation are higher than the activities reported for samples collected prior to the operation of the station. Measured concentrations were not higher than expected and all positively identified measurements attributable to station operation were within limits as specified in the CNS ODCM and SLCs, thus presenting no significant impact on the environment or public health and safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy Corporation's Catawba Nuclear Station is a two-unit facility located on the shore of Lake Wylie in York County, South Carolina. Each of the two essentially identical units employs a pressurized water reactor nuclear steam supply system furnished by Westinghouse Electric Corporation. Unit one produces a net electrical output of 1165 MWe, while Unit 2 produces a net electrical output of 1145 MWe. Units 1 and 2 achieved initial criticality on January 7, 1985, and May 8, 1986, respectively.

Condenser cooling is accomplished utilizing a closed system incorporating cooling towers, instead of using lake water directly. Liquid effluents are released into Lake Wylie via the station discharge canal and are not accompanied by the large additional dilution water flow associated with "once-through" condenser cooling. This design results in greater radionuclide concentrations in the discharge canal given comparable liquid effluent source terms.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. Figures 2.1-1, 2.1-2, and 2.1-3 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within a one mile radius of CNS. Figures 2.1-2 and 2.1-3 comprise all sample locations within a 10 mile radius of CNS and beyond.

The Catawba site centerline used for GPS measurements was referenced from the Catawba Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for CNS GPS measurements were latitude 35°-3'-5"N and longitude 81°-4'-10"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. All GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at Catawba Nuclear Station since 1981, four years prior to operation of Unit 1 in 1985. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency and

analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other “man-made” environmental radioactivity.

The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Catawba Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.10.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. “Net activity (or concentration)” is the activity (or concentration) determined to be present in the sample. No “Minimum Detectable Activity”, “Lower Limit of Detection”, “Less Than Level”, or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,
 i = individual sample,
 N = total number of samples with a net activity (or concentration),
 χ_i = net activity (or concentration) for sample i .

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD), and Minimum Detectable Activity (MDA) are used throughout the REMP.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the Selected Licensee Commitments and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Factors

that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the Chernobyl accident and the Japan earthquake and tsunami, which triggered the Fukushima Dai-ichi Nuclear Power Plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

**Figure 2.1-1
Catawba Nuclear Station Sampling Locations Map (One Mile Radius)**

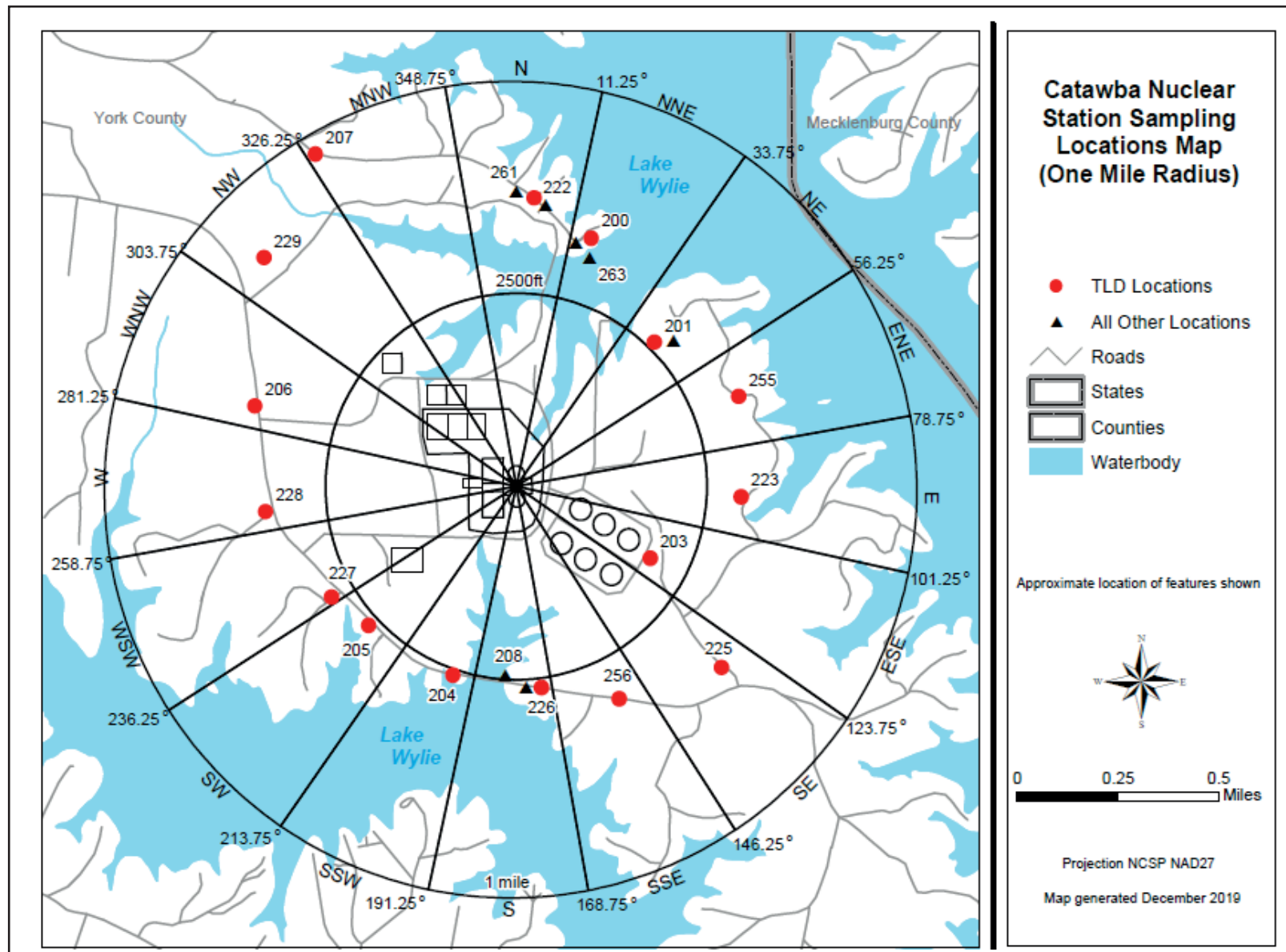


Figure 2.1-2
Catawba Nuclear Station Sampling Locations Map (Ten Mile Radius)

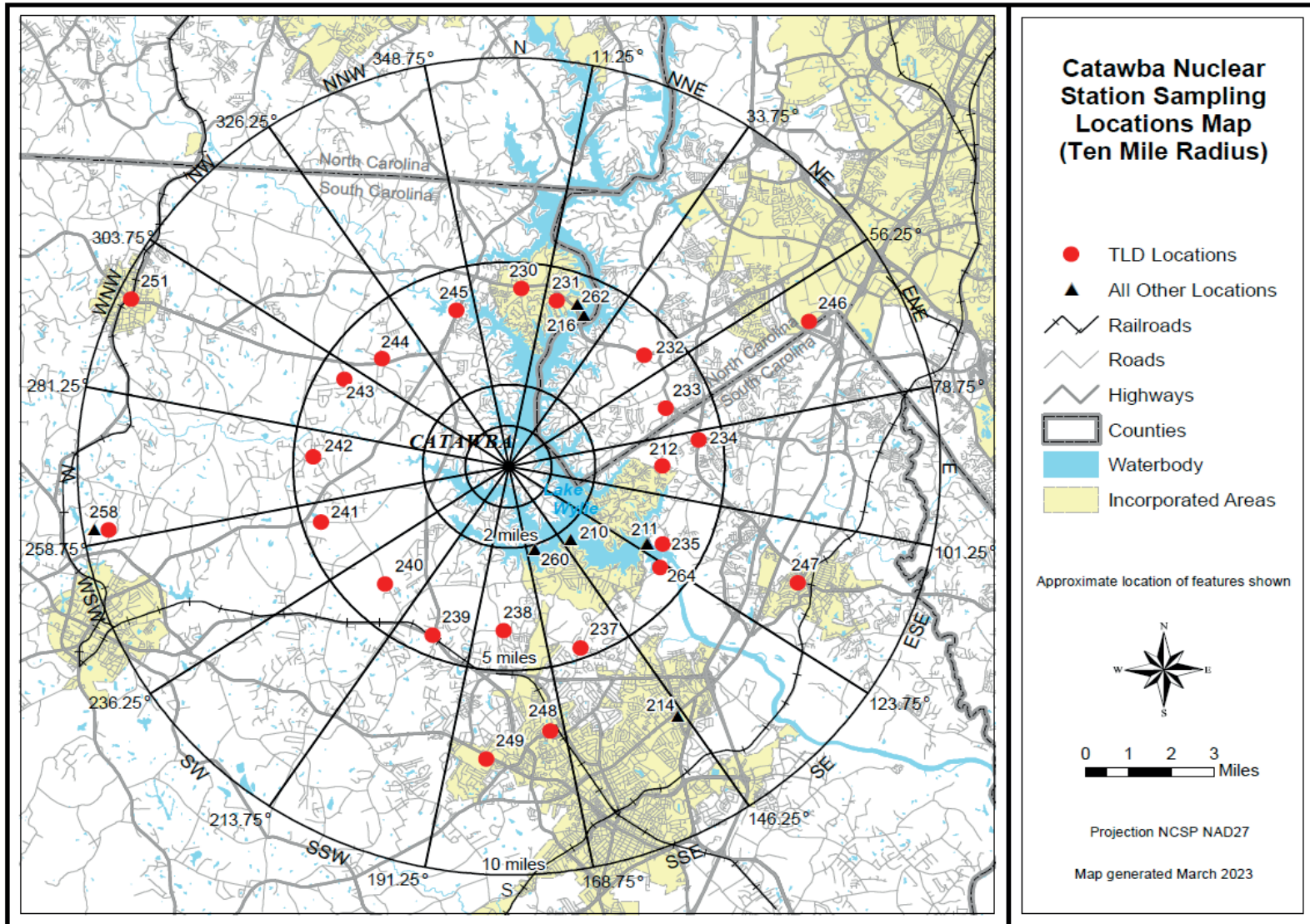


Figure 2.1-3
Catawba Nuclear Station Sampling Locations Map (>Ten Mile Radius)

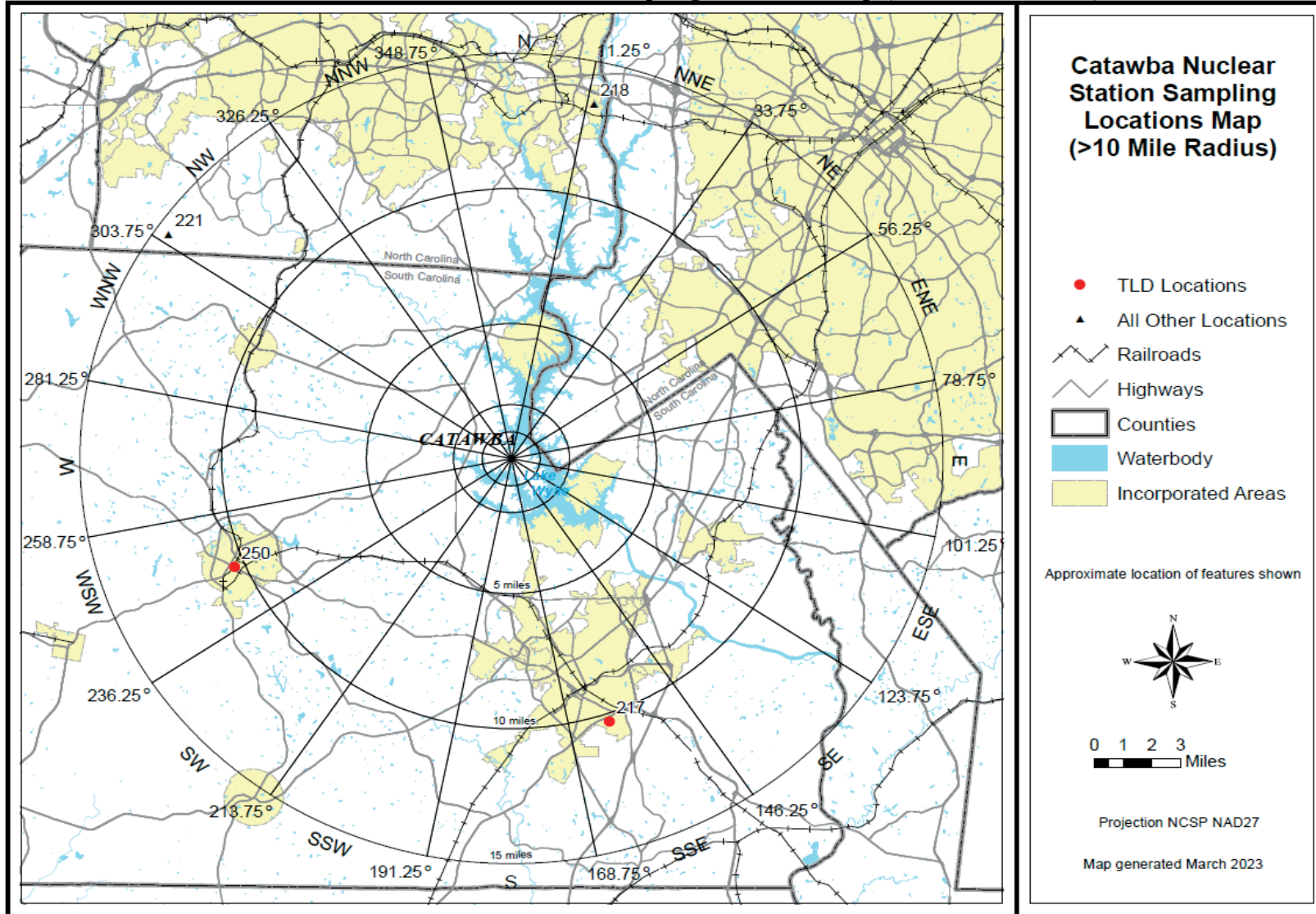


TABLE 2.1-A

CATAWBA RADIOLOGICAL MONITORING PROGRAM

SAMPLING LOCATIONS

Table 2.1-A Codes			
BW	BiWeekly	Q	Quarterly
C	Control	SA	Semiannually
CM	Community	SM	Semimonthly
I	Indicator	W	Weekly
M	Monthly		

Site #	Measure Type	Location Description*	Air Rad. & Part.	Surface Water	Drinking Water	Shoreline Sediment	Food Products (a)	Fish	Milk	Broad Leaf Veg. (b)	Ground Water **
200	I	Site Boundary (0.63 mi NNE)	W							M	
201	I	Site Boundary (0.53 mi NE)	W, CM							M	
208	I	Discharge Canal – Site Boundary (0.45 mi S)	W	M		SA		SA			
210	I	Ebenezer Access (2.31 mi SE)				SA					
211	I	Wylie Dam (4.06 mi ESE)		M							
214	I	Rock Hill Water Supply (7.30 mi SSE)			M						
216	C	Hwy 49 Bridge (4.19 mi NNE)						SA			
218	C	Belmont Water Supply (13.5 mi NNE)			M						
221	C	Dairy (14.5 mi NW)							SM		
222	I	Site Boundary (0.70 mi N)								M	
226	I	Site Boundary (0.48 mi S)								M	
258	C	Fairhope Road (9.84 mi W)	W							M	
260	I	Irrigated Gardens (2.00 mi SSE)					M (a)				
261	I	Firing Range-Site Boundary (0.72 mi N)	W								
262	C	Lake Wylie Marina- Hwy 49 (4.19 mi NNE)				SA					
263	C	Liberty Hill Road (0.59 mi NNE)		M							

(a) During Harvest Season

(b) When Available

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

** Currently no off-site ground water monitoring locations available that are used for drinking or irrigation purposes where hydraulic gradient or recharge properties are suitable for contamination.

TABLE 2.1-B

**CATAWBA RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS (TLD SITES)**

Table 2.1-B Codes			
C	Control	OR	Outer Ring
IR	Inner Ring	SI	Special Interest

Site #	Measure Type	Location ^{*(a)}	Distance (miles)	Sector	Site #	Measure Type	Location ^{*(a)}	Distance (miles)	Sector
200	IR	SITE BOUNDARY	0.63	NNE	235	OR	LAKE WYLIE DAM	4.07	ESE
201	IR	SITE BOUNDARY	0.53	NE	237	OR	TWIN LAKES ROAD AND HOMESTEAD ROAD	4.75	SSE
203	IR	SITE BOUNDARY	0.38	ESE	238	OR	PENNINGTON ROAD AND WEST OAK ROAD	4.02	S
204	IR	SITE BOUNDARY	0.48	SSW	239	OR	CARTER LUMBER COMPANY	4.49	SSW
205	IR	SITE BOUNDARY	0.50	SW	240	OR	PARAHAM ROAD	4.07	SW
206	IR	SITE BOUNDARY	0.67	WNW	241	OR	CAMPBELL ROAD	4.58	WSW
207	IR	SITE BOUNDARY	0.95	NNW	242	OR	TRANSMISSION TOWER ON PARAHAM ROAD	4.56	W
212	SI	TEGA CAY	3.32	E	243	OR	KINGSBURY ROAD	4.39	WNW
217	C	BLACKMON ROAD	10.3	SSE	244	OR	BETHEL ELEMENTARY SCHOOL	4.02	NW
222	IR	SITE BOUNDARY	0.71	N	245	OR	CROWDERS CREEK BOAT LANDING	4.01	NNW
223	IR	SITE BOUNDARY	0.57	E	246	SI	CAROWINDS GUARD HOUSE	7.87	ENE
225	IR	SITE BOUNDARY	0.68	SE	247	C	FORT MILL	7.33	ESE
226	IR	SITE BOUNDARY	0.48	S	248	SI	PIEDMONT MEDICAL CENTER	6.54	S
227	IR	SITE BOUNDARY	0.52	WSW	249	SI	YORK COUNTY OPERATIONS CENTER	7.17	S
228	IR	SITE BOUNDARY	0.61	W	250	SI	YORK DUKE POWER OFFICE	10.4	WSW
229	IR	SITE BOUNDARY	0.84	NW	251	C	CLOVER	9.72	WNW
230	OR	RIVER HILLS COMMUNITY CHURCH	4.37	N	255	IR	SITE BOUNDARY	0.61	ENE
231	OR	RIVER HILLS FRONT ENTRANCE	4.21	NNE	256	IR	SITE BOUNDARY	0.58	SSE
232	OR	PLEASANT HILL ROAD	4.18	NE	258	SI	FAIRHOPE ROAD	9.84	W
233	OR	ZOAR ROAD AND THOMAS DRIVE	3.95	ENE	264	OR	INDIA HOOK ROAD	4.32	SE
234	OR	WELLS FARGO BANK	4.50	E					

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

(a) One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. (The 40 stations is not an absolute number. The number of direct radiation monitoring stations may be reduced according to geographical limitations; e.g., at an ocean site, some sectors will be over water so that the number of dosimeters may be reduced accordingly. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information within minimal fading.)

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

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

(a) If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

(b) H-3 Reporting level not applicable to surface water.

TABLE 2.2-B
REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic ^(d)	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X	---	---	---	---
Air Particulate	Weekly	---	---	---	(c)	---
	Quarterly Composite	X	---	---	---	---
Direct Radiation	Quarterly	---	---	---	---	X
Surface Water	Monthly Composite ^{(e) (f)}	X	---	---	---	---
	Quarterly Composite	---	X	---	---	---
Drinking Water	Monthly Composite ^(e)	X	---	(a)	X	---
	Quarterly Composite	---	X	---	---	---
Ground Water	Quarterly	X	X	---	---	---
Shoreline Sediment	Semiannually	X	---	---	---	---
Milk	Semimonthly	X	---	X	---	---
Fish	Semiannually	X	---	---	---	---
Broadleaf Vegetation	Monthly ^(b)	X	---	---	---	---
Food Products	Monthly ^(g)	X	---	---	---	---

- (a) Low-level I-131 analysis will be performed if the dose calculated for the consumption of drinking water is > 1 mrem per year. An LLD of 1 pCi/liter will be required for this analysis.
- (b) When Available.
- (c) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than 10 times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.
- (d) Gamma isotopic analysis means the identification and quantification of gamma emitting radionuclides that may be attributable to the effluents from the facility.
- (e) A composite sample is one in which the rate at which the liquid sampled is uniform and in which the method of sampling employed results in a specimen that is representative of the time-averages concentration at the location being samples. In this program composite sample aliquots shall be collected at time intervals that are very short (e.g. hourly) relative to the composite period (e.g. monthly) in order to assure obtaining a representative sample.
- (f) The “upstream sample” shall be taken at a distance beyond significant influence of the discharge. The “downstream” sample shall be taken in an area beyond but near the mixing zone. “Upstream” samples in an estuary must be taken far enough upstream to be beyond the plant influence. Salt water shall be sampled only when the receiving water is utilized for recreational activities.
- (g) If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continuously, sampling shall be monthly. Attention shall be paid to including samples of tuberous and root food products.

TABLE 2.2-C

MAXIMUM VALUES FOR THE *A PRIORI* LOWER LIMIT OF DETECTION^{(c) (d)}

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01	---	---	---	---
H-3	2000 ^(a)	---	---	---	---	---
Mn-54	15	---	130	---	---	---
Fe-59	30	---	260	---	---	---
Co-58, 60	15	---	130	---	---	---
Zn-65	30	---	260	---	---	---
Zr-Nb-95	15	---	---	---	---	---
I-131	1 ^(b)	0.07	---	1	60	---
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15	---	---	15	---	---

(a) If no drinking water pathway exists, a value of 3,000 pCi/liter may be used.

(b) If no drinking water pathway exists, the LLD of gamma isotopic analysis may be used.

(c) Lower Limit of Detection is defined in Section 2.3.2.

(d) This list does not mean that only these nuclides are to be considered. Other peaks that are identifiable, together with those of the above nuclides, shall also be analyzed and reported in the Annual Radiological Environmental Operating Report pursuant to Technical Specification 5.6.2.

3.0 INTERPRETATION OF RESULTS

Review of all 2023 REMP analysis results was performed to identify changes in environmental levels as a result of station operations. The following section depicts and explains the review of these results. Sample data for 2023 was compared to preoperational and historical data. Over the years of operation, analysis and collection changes have taken place that do not allow direct comparisons for some data collected from 1984 (preoperational) through 2023. Summary tables containing 2023 information required by Technical Specification Administrative Control 5.6.2 are located in Appendix B. REMP results for 2023 are located in Appendix E.

Evaluation for significant trends was performed for radionuclides that are listed as required within Selected Licensee Commitments 16.11-13. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Gross beta analysis results were trended for drinking water and air particulate. Other radionuclides detected that are the result of plant operation, but not required for reporting, are trended.

A comparison of annual mean concentrations of effluent-based detected radionuclides to historical results provided trending bases. Frequency of detection and concentrations related to SLC reporting levels (Table 2.2-A) were used as criteria for trending conclusions. All 2023 maximum percentages of reporting levels attributed to CNS operation were well below the 100% action level.

Selected Licensee Commitment section 16.11-13 addresses actions to be taken if radionuclides other than those required are detected in samples collected. The occurrences of these radionuclides are the result of CNS liquid effluents which contained the radionuclides.

During 1984-1986, all net activity results (sample minus background), both positive and negative were included in calculation of sample mean. A change in the EnRad gamma spectroscopy system on September 1, 1987, decreased the number of measurements yielding detectable low-level activity for indicator and control location samples. It was thought that the method used by the previous system was vulnerable to false-positive results.

All 2023 sample analysis results were reviewed to detect and identify any significant trends. Tables and graphs are used throughout this section to display data from effluent-based radionuclides identified since the system change in late 1987. All negative concentration values were replaced with zero for calculation purposes. Any zero concentrations used in tables or graphs represent activity measurements less than detectable levels.

Review of all 2023 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from CNS site and surrounding areas that were attributable to plant operations. Inspection of the data showed that radioactivity concentrations were as expected and all positively identified measurements attributed to plant operations were within CNS Offsite Dose

Calculation Manual (ODCM) and SLC regulatory limits; thus presenting no significant impact to the environment or public health and safety.

Data presented in Sections 3.1 through 3.9 support the conclusion that there was no significant increase in radioactivity in the environment around Catawba Nuclear Station due to station operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data, shown in Section 3.10, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Airborne particulate and radioiodine samples at each of five locations were composited by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly.

In 2023, 260 radioiodine and particulate samples were analyzed, 208 from four indicator locations and 52 at the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

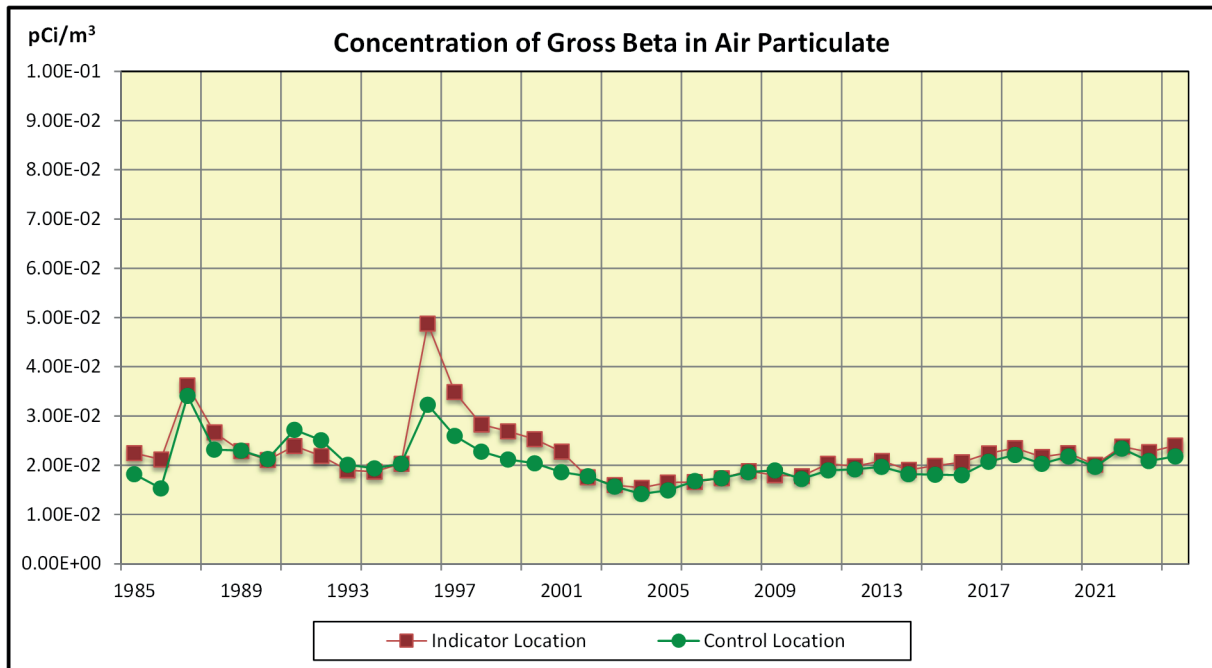
Gross beta analyses indicated $2.40\text{E-}2$ pCi/m³ at the location with the highest annual mean and $2.18\text{E-}2$ pCi/m³ at the control location. Figure 3.1 shows individual sample gross beta results for the indicator location with highest annual mean and the control location samples during 2023. The two sample locations' results are similar in concentration and have varied negligibly since preoperational periods.

There were no detectable gamma emitters attributable to plant operations identified for particulate filters analyzed during 2023. Table 3.1-A shows the highest indicator annual mean and control location annual mean for gross beta in air particulate.

There was no detectable I-131 in air radioiodine samples analyzed in 2023. Table 3.1-B shows the highest indicator annual mean and control location annual mean for I-131 since 1984 (preoperational period). The table shows similar concentrations for both the indicator and control locations and the activities decreasing from early in the operational history of the plant. No I-131 activity due to CNS plant operations has been detected since 1987.

K-40 and Be-7 that occur naturally were routinely detected in air particulate collected during the year. K-40 was routinely detected in charcoal cartridges.

Figure 3.1



There is no reporting level for gross beta in air particulate

Table 3.1-A Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1984	2.25E-2	1.82E-2
1985	2.12E-2	1.53E-2
1986	3.62E-2	3.41E-2
1987	2.67E-2	2.32E-2
1988	2.29E-2	2.30E-2
1989	2.11E-2	2.13E-2
1990	2.39E-2	2.72E-2
1991	2.19E-2	2.51E-2
1992	1.90E-2	2.01E-2
1993	1.87E-2	1.94E-2
1994	2.03E-2	2.03E-2
1995	4.88E-2	3.23E-2
1996	3.49E-2	2.60E-2
1997	2.83E-2	2.28E-2
1998	2.69E-2	2.12E-2
1999	2.53E-2	2.04E-2
2000	2.28E-2	1.86E-2
2001	1.76E-2	1.78E-2
2002	1.60E-2	1.57E-2
2003	1.54E-2	1.42E-2
2004	1.65E-2	1.49E-2
2005	1.66E-2	1.68E-2
2006	1.74E-2	1.74E-2
2007	1.88E-2	1.86E-2
2008	1.80E-2	1.90E-2
2009	1.78E-2	1.72E-2
2010	2.03E-2	1.90E-2
2011	1.98E-2	1.92E-2
2012	2.09E-2	1.97E-2
2013	1.92E-2	1.82E-2
2014	1.99E-2	1.81E-2
2015	2.06E-2	1.80E-2
2016	2.24E-2	2.07E-2
2017	2.35E-2	2.21E-2
2018	2.17E-2	2.03E-2
2019	2.25E-2	2.18E-2
2020	2.01E-2	1.97E-2
2021	2.38E-2	2.34E-2
2022	2.27E-2	2.09E-2
2023	2.40E-2	2.18E-2

Table 3.1-B Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1984	1.30E-3	1.46E-2
1985	4.75E-3	2.38E-2
1986	1.43E-2	1.02E-2
1987	1.38E-2	0.00E0
1988	0.00E0	0.00E0
1989	0.00E0	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011 ⁽¹⁾	5.53E-2	5.65E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0
2015	0.00E0	0.00E0
2016	0.00E0	0.00E0
2017	0.00E0	0.00E0
2018	0.00E0	0.00E0
2019	0.00E0	0.00E0
2020	0.00E0	0.00E0
2021	0.00E0	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) 2011 concentration affected by Fukushima Daiichi

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.2 DRINKING WATER

Gross beta analysis and gamma spectroscopy were performed on 26 drinking water samples. These samples were composited to create 8 quarterly composite period samples for tritium analysis. Monthly composite drinking water samples were collected at each of two locations; one indicator location, along with one control location.

No gamma emitting radionuclides attributable to plant operations were identified in 2023 drinking water samples.

Figure 3.2-1 and Table 3.2 shows highest annual mean gross beta concentrations for the indicator location and control location since preoperation. The indicator location (downstream of the plant effluent release point) average concentration was 3.80 pCi/l in 2023 and the control location concentration was 3.83 pCi/l. The gross beta mean indicator activity and mean control activity increased in 2019 due to an analytical method change affecting analytical sensitivities in 2019 (NCR # 02303030).

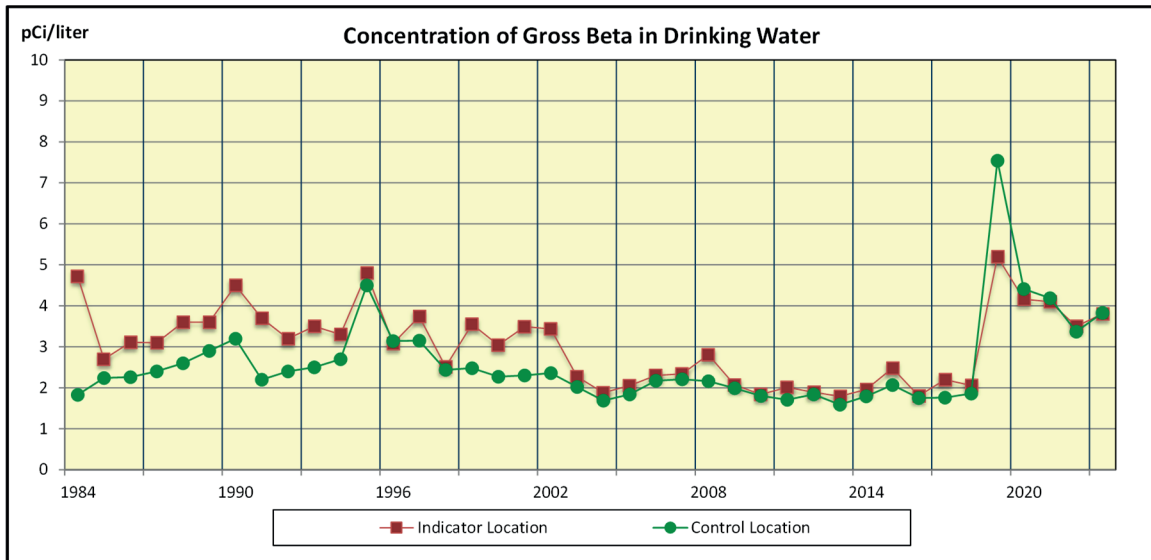
Tritium was detected in all four indicator samples as well as control location samples during 2023. The mean indicator tritium concentration for 2023 was 749 pCi/l, 3.75% of reporting level. The mean control tritium concentration for 2023 was 429 pCi/l, 2.15% of reporting level. Figure 3.2-2 and Table 3.2 display the highest indicator and control location annual mean concentrations for tritium since 1984.

The concentration of tritium in drinking water is affected by releases from the Catawba plant and the McGuire Nuclear Station, located approximately 40 miles upstream of the Catawba plant on the Catawba River.

The dose for consumption of water was less than one mrem per year, historically and for 2023; therefore low-level iodine analysis is not required.

K-40 is a naturally occurring radionuclide observed in drinking water samples in 2023.

Figure 3.2-1



Analytical method change implemented in 2019.

Figure 3.2-2

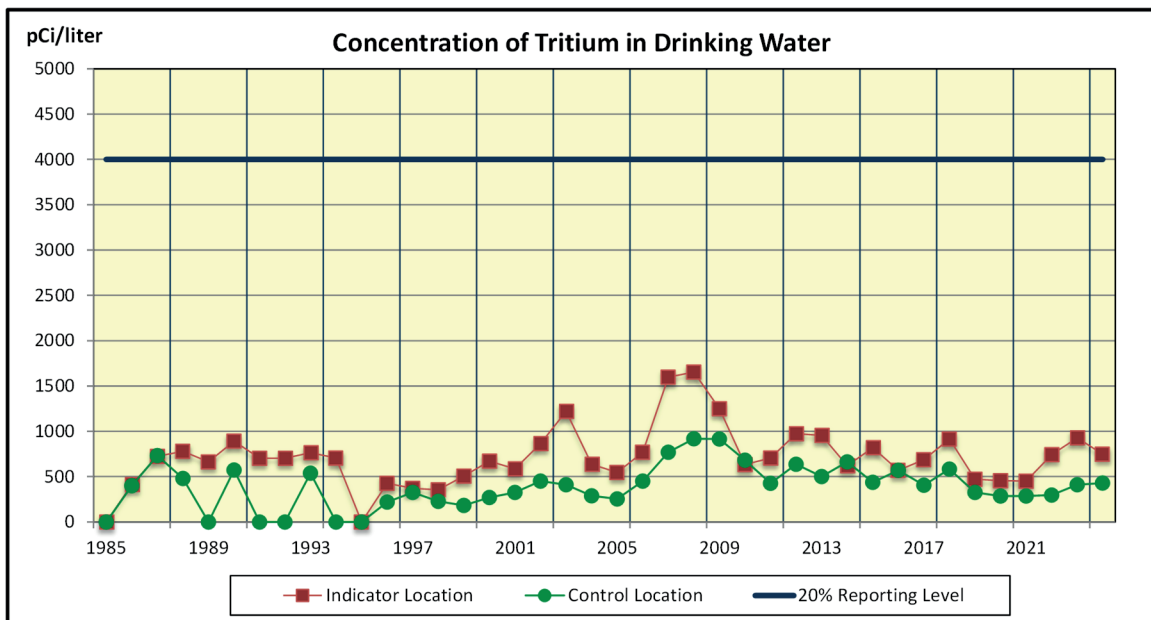


Table 3.2 Mean Concentration of Radionuclides in Drinking Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1984	4.72	1.83	3.10E-2	3.10E-2
1985	2.70	2.24	4.13E2	4.00E2
1986	3.11	2.26	7.23E2	7.33E2
1987	3.10	2.40	7.80E2	4.80E2
1988	3.60	2.60	6.64E2	0.00E0
1989	3.60	2.90	8.91E2	5.72E2
1990	4.50	3.20	7.03E2	0.00E0
1991	3.70	2.20	7.04E2	0.00E0
1992	3.20	2.40	7.65E2	5.38E2
1993	3.50	2.50	7.06E2	0.00E0
1994	3.30	2.70	0.00E0	0.00E0
1995	4.80	4.50	4.28E2	2.21E2
1996	3.08	3.14	3.71E2	3.27E2
1997	3.74	3.15	3.54E2	2.28E2
1998	2.51	2.44	5.07E2	1.83E2
1999	3.55	2.48	6.71E2	2.70E2
2000	3.04	2.27	5.87E2	3.26E2
2001	3.49	2.30	8.66E2	4.50E2
2002	3.44	2.36	1.22E3	4.11E2
2003	2.27	2.02	6.36E2	2.88E2
2004	1.88	1.69	5.47E2	2.54E2
2005	2.05	1.84	7.69E2	4.50E2
2006	2.30	2.17	1.59E3	7.70E2
2007	2.34	2.21	1.65E3	9.18E2
2008	2.81	2.16	1.25E3	9.16E2
2009	2.07	1.99	6.34E2	6.81E2
2010	1.84	1.80	7.05E2	4.27E2
2011	2.01	1.71	9.73E2	6.36E2
2012	1.89	1.84	9.54E2	5.02E2
2013	1.79	1.59	6.22E2	6.64E2
2014	1.96	1.79	8.21E2	4.37E2
2015	2.48	2.07	5.70E2	5.70E2
2016	1.80	1.75	6.88E2	4.06E2
2017	2.20	1.76	9.16E2	5.83E2
2018	2.06	1.86	4.71E2	3.26E2
2019 ⁽¹⁾	5.20	7.54	4.55E2	2.85E2
2020	4.16	4.41	4.52E2	2.87E2
2021	4.10	4.19	7.44E2	2.98E2
2022	3.50	3.37	9.28E2	4.11E2
2023	3.80	3.83	7.49E2	4.29E2

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) Gross beta preparation/analysis methodology change (NCR # 02303030).

3.3 SURFACE WATER

A total of 39 monthly surface water composite samples were analyzed for gamma emitting radionuclides. The samples were additionally composited to create 12 quarterly composite period samples for tritium analysis. Two indicator locations and one control location were sampled. One indicator location (208) is located near the liquid effluent discharge point.

As an enhancement to the REMP, a battery powered composite water sampler connected to a solar panel was tested in tandem (same physical location) with the electrical grid powered composite water samplers at CNS surface water locations 208 (Discharge Canal – Site Boundary 0.45 miles S). The battery/solar powered composite sampler was found to be more reliable with no deviations to the REMP whereas the electrical grid powered composite water sampler had several deviations due to power interruptions. This study was presented to CNS Station Sciences REMP Staff and it was agreed that the electrical grid powered composite sampler would be retired in place as of 6SEP2023. The electrical grid composite sampler remains in place, as well as the submersible pump with the reservoir overflowing so it can be utilized if required (NCR# 02454856).

Tritium was identified in all 8 indicator samples with an average concentration of 4,512 pCi/l. Indicator location 208 (Discharge Canal) showed a range of activities from 3,850 to 16,400 pCi/l which had the highest mean concentration of 8,285 pCi/l. Tritium was detected in all four control samples during 2023 with an average concentration of 431 pCi/l.

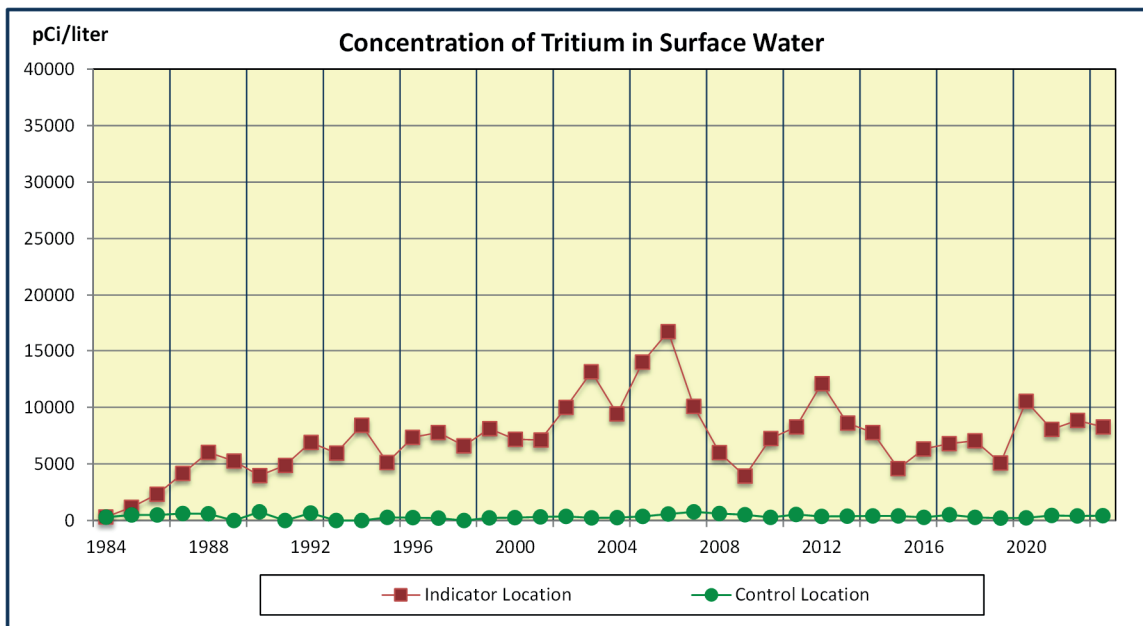
No gamma emitting radionuclides attributable to plant operations were identified in 2023 surface water samples. Table 3.3 summarizes the indicator annual means of radionuclides detected since 1984. Visual inspection of the tabular data did not reveal any increasing trends.

Figure 3.3 displays the highest indicator and control annual means for tritium since 1984.

The concentration of tritium in surface water is affected by releases from the Catawba plant and the McGuire Nuclear Station, located approximately 40 miles upstream of the Catawba plant on the Catawba River.

K-40 is a naturally occurring radionuclide observed in surface water samples in 2023.

Figure 3.3



There is no reporting level for tritium in surface water, however, if no drinking water pathway exists, a value of 30,000 pCi/l may be used. A drinking water pathway exists for Catawba Nuclear Station, so this limit does not apply for surface water. See section 3.2 for drinking water results.

Table 3.3 Mean Concentrations of Radionuclides in Surface Water (pCi/l)

YEAR	Co-58	Co-60	Cs-137	H-3 Indicator	H-3 Control
1984	4.59E-1	5.71E-1	9.08E-1	3.35E2	3.18E2
1985	3.46E0	4.83E-2	8.19E-1	1.19E3	5.05E2
1986	3.10E-1	-4.12E-2	4.85E-1	2.34E3	5.05E2
1987 ⁽¹⁾	0.00E0	3.10E0	9.90E0	4.17E3	6.20E2
1988	9.20E0	0.00E0	0.00E0	6.03E3	6.07E2
1989	0.00E0	0.00E0	0.00E0	5.27E3	0.00E0
1990	6.50E0	0.00E0	0.00E0	3.98E3	7.73E2
1991	0.00E0	0.00E0	0.00E0	4.87E3	0.00E0
1992	0.00E0	0.00E0	0.00E0	6.91E3	6.64E2
1993	4.70E0	1.80E0	0.00E0	5.98E3	0.00E0
1994	0.00E0	0.00E0	0.00E0	8.42E3	0.00E0
1995	0.00E0	0.00E0	0.00E0	5.13E3	2.89E2
1996	0.00E0	0.00E0	0.00E0	7.36E3	2.61E2
1997	0.00E0	0.00E0	0.00E0	7.77E3	2.20E2
1998	0.00E0	0.00E0	0.00E0	6.61E3	0.00E0
1999	0.00E0	0.00E0	0.00E0	8.13E3	2.41E2
2000	0.00E0	0.00E0	0.00E0	7.19E3	2.56E2
2001	0.00E0	0.00E0	0.00E0	7.13E3	3.28E2
2002	0.00E0	0.00E0	0.00E0	1.00E4	3.80E2
2003	0.00E0	0.00E0	0.00E0	1.31E4	2.37E2
2004	0.00E0	0.00E0	0.00E0	9.43E3	2.60E2
2005	0.00E0	0.00E0	0.00E0	1.40E4	3.78E2
2006	0.00E0	0.00E0	0.00E0	1.67E4	5.83E2
2007	0.00E0	0.00E0	0.00E0	1.01E4	7.82E2
2008	6.80E0	1.16E1	0.00E0	6.02E3	6.31E2
2009	9.40E0	1.06E1	0.00E0	3.93E3	5.29E2
2010	0.00E0	0.00E0	0.00E0	7.26E3	2.94E2
2011	8.75E0	1.96E1	0.00E0	8.29E3	5.41E2
2012	0.00E0	0.00E0	0.00E0	1.21E4	3.71E2
2013	0.00E0	0.00E0	0.00E0	8.62E3	4.02E2
2014 ^{(2) (3)}	7.23E0	4.69E0	0.00E0	7.79E3	4.18E2
2015 ⁽⁴⁾	1.15E1	1.07E0	0.00E0	4.61E3	4.14E2
2016	0.00E0	0.00E0	0.00E0	6.34E3	2.81E2
2017	0.00E0	0.00E0	0.00E0	6.80E3	5.24E2
2018	0.00E0	0.00E0	0.00E0	7.07E3	2.79E2
2019	0.00E0	0.00E0	0.00E0	5.10E3	2.21E2
2020	0.00E0	0.00E0	0.00E0	1.05E4	2.37E2
2021	0.00E0	0.00E0	0.00E0	8.06E3	4.67E2
2022	0.00E0	0.00E0	0.00E0	8.85E3	4.18E2
2023	0.00E0	0.00E0	0.00E0	8.29E3	4.31E2

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

(3) 2014 – During the 3rd quarter, CNS experienced higher levels than normal of mixed fission and activation products in the liquid radioactive waste processing system and higher than normal liquid waste discharges (NCR # 01897053).

(4) 2015 – Co-58 and Co-60 were detected at SW Location 208 (NCR # 01934713).

3.4 MILK

A total of 26 biweekly grab samples of milk were analyzed by gamma spectroscopy and low-level Iodine-131 during 2023. There was one control location sampled. No indicator dairies were identified by the 2023 land use census.

There were no gamma emitting radionuclides attributable to plant operations identified in milk samples in 2023. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1996. Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period. Airborne Cs-137 has not been released from the plant since 1992.

Table 3.4 lists highest indicator location annual mean and control location annual mean for Cs-137 since the preoperational period.

K-40 is a naturally occurring radionuclide observed in milk samples in 2023.

Table 3.4 Mean Concentration of Radionuclides in Milk

YEAR	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
1984	2.95E0	2.98E0
1985	2.11E0	2.12E0
1986	3.76E0	4.54E0
1987 ⁽¹⁾	5.00E0	5.50E0
1988	3.20E0	3.80E0
1989	0.00E0	0.00E0
1990	8.00E0	6.70E0
1991	0.00E0	0.00E0
1992	3.40E0	5.00E0
1993	5.00E0	0.00E0
1994	2.80E0	0.00E0
1995	8.60E0	0.00E0
1996	6.05E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	No Indicator Location	0.00E0
2005	No Indicator Location	0.00E0
2006	No Indicator Location	0.00E0
2007	No Indicator Location	0.00E0
2008	No Indicator Location	0.00E0
2009	No Indicator Location	0.00E0
2010	No Indicator Location	0.00E0
2011	No Indicator Location	0.00E0
2012	No Indicator Location	0.00E0
2013	No Indicator Location	0.00E0
2014 ⁽²⁾	No Indicator Location	0.00E0
2015	No Indicator Location	0.00E0
2016	No Indicator Location	0.00E0
2017	No Indicator Location	0.00E0
2018	No Indicator Location	0.00E0
2019	No Indicator Location	0.00E0
2020	No Indicator Location	0.00E0
2021	No Indicator Location	0.00E0
2022	No Indicator Location	0.00E0
2023	No Indicator Location	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.5 BROADLEAF VEGETATION

Gamma spectroscopy was performed on 60 broadleaf vegetation samples collected monthly from five locations during 2023. Four indicator locations and one control location were sampled. Cs-137 was reported in one indicator location, Location 201, in one of twelve samples collected with a concentration of 43.2 pCi/kg (2.16 % of reporting level). Cs-137 was not detected in any of the control samples in 2023.

Cs-137 is the only gamma emitting radionuclide, other than naturally occurring, reported in vegetation samples. It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

Figure 3.5 shows indicator and control annual means for Cs-137 in vegetation since 1984. Values shown from 1984 to 2023 show a stable trend for Cs-137 in vegetation. No airborne Cs-137 has been released from the plant since 1992.

K-40 and Be-7 are naturally occurring radionuclides that were observed in broadleaf vegetation samples in 2023.

Figure 3.5

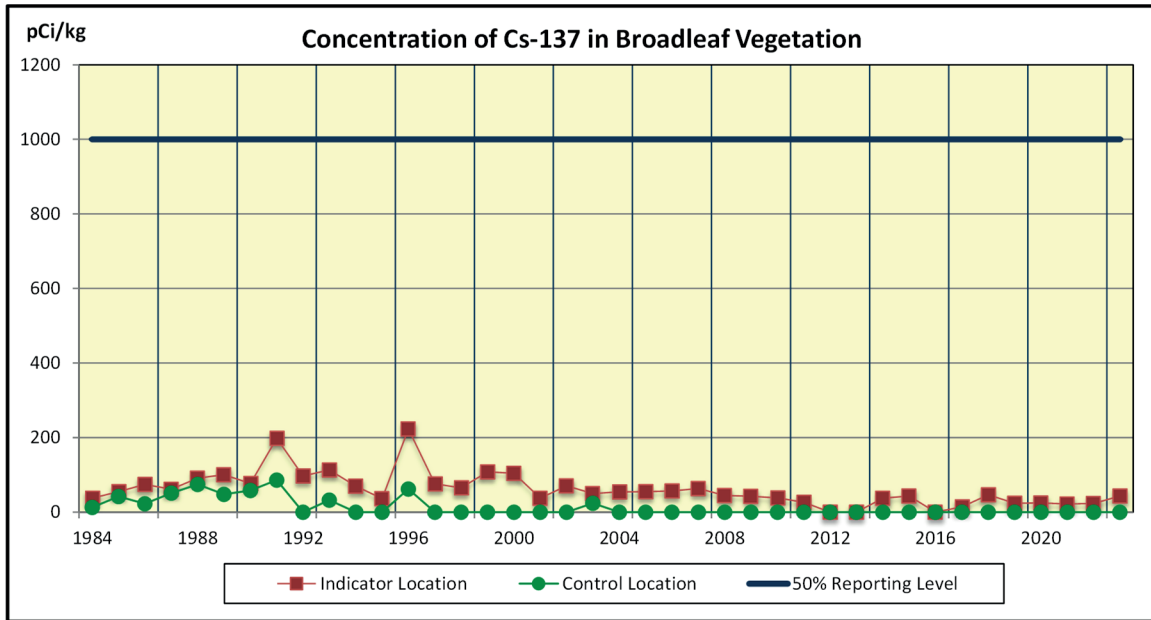


Table 3.5 Mean Concentration of Radionuclides in Broadleaf Vegetation

YEAR	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
1984	3.76E1	1.30E1
1985	5.48E1	4.16E1
1986	7.42E1	2.22E1
1987 ⁽¹⁾	6.10E1	5.10E1
1988	9.10E1	7.40E1
1989	1.00E2	4.80E1
1990	7.70E1	5.80E1
1991	1.98E2	8.60E1
1992	9.70E1	0.00E0
1993	1.13E2	3.20E1
1994	7.00E1	0.00E0
1995	3.60E1	0.00E0
1996	2.23E2	6.22E1
1997	7.57E1	0.00E0
1998	6.53E1	0.00E0
1999	1.08E2	0.00E0
2000	1.04E2	0.00E0
2001	3.76E1	0.00E0
2002	7.02E1	0.00E0
2003	4.96E1	2.40E1
2004	5.45E1	0.00E0
2005	5.48E1	0.00E0
2006	5.79E1	0.00E0
2007	6.31E1	0.00E0
2008	4.44E1	0.00E0
2009	4.25E1	0.00E0
2010	3.77E1	0.00E0
2011	2.62E1	0.00E0
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽²⁾	3.72E1	0.00E0
2015	4.29E1	0.00E0
2016	0.00E0	0.00E0
2017	1.43E1	0.00E0
2018	4.67E1	0.00E0
2019	2.35E1	0.00E0
2020	2.46E1	0.00E0
2021	2.18E1	0.00E0
2022	2.34E1	0.00E0
2023	4.32E1	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

2011 concentration affected by Fukushima Daiichi

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.6 FOOD PRODUCTS

Collection of food product samples (crops) from an irrigated garden began in 1989. The irrigated garden is located on Lake Wylie downstream from CNS, Location 260. During the 2023 growing season seven samples were collected (monthly when available) and analyzed for gamma radionuclides.

There were no gamma emitting radionuclides attributable to plant operations identified in food product samples in 2023. There is no control location for this media type.

K-40 and Be-7 are naturally occurring radionuclides that were observed in food product samples in 2023.

3.7 FISH

Gamma spectroscopy was performed on the edible portions of the twelve fish samples collected semiannually during 2023. One downstream indicator location and one control location were sampled.

No fish indicator or control samples were positive for gamma emitting radionuclides, attributable to plant operations during 2023.

Co-58, Co-60, and Cs-137 are normally the predominant radionuclides identified in fish samples. Overall, radionuclides have not shown a significant trend or accumulation.

K-40 is a naturally occurring radionuclide that was observed in some fish samples collected during 2023.

Table 3.7 Mean Concentrations of Radionuclides in Fish (pCi/kg)

Year	Co-58	Co-60	Cs-134	Cs-137
1984	3.00E0	6.11E-1	-5.32E0	1.83E0
1985	3.40E1	9.11E0	3.22E0	1.28E1
1986	1.86E2	4.01E1	3.51E1	9.29E1
1987 ⁽¹⁾	7.57E1	4.81E1	3.83E0	4.27E1
1988	1.40E2	9.70E1	1.67E1	8.24E1
1989	1.33E2	3.83E1	1.47E1	4.37E1
1990	1.75E2	7.77E1	1.32E1	4.66E1
1991	1.46E2	1.29E2	1.03E1	4.60E1
1992	9.02E1	6.20E1	1.27E1	4.61E1
1993	3.58E2	1.21E2	2.73E0	2.56E1
1994	4.75E1	1.81E1	0.00E0	1.75E1
1995	8.90E2	2.66E2	0.00E0	6.77E1
1996	5.95E1	6.68E1	0.00E0	3.02E1
1997	4.93E1	9.88E0	0.00E0	2.74E1
1998	6.44E1	2.86E1	0.00E0	1.58E1
1999	3.12E1	2.71E1	0.00E0	1.87E1
2000	2.13E2	2.69E2	0.00E0	1.52E1
2001	4.66E1	0.00E0	0.00E0	2.08E1
2002	5.23E1	7.00E1	0.00E0	1.73E1
2003	1.43E2	2.61E1	0.00E0	1.19E1
2004	1.81E1	0.00E0	0.00E0	0.00E0
2005	0.00E0	0.00E0	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	1.44E1
2007	0.00E0	0.00E0	0.00E0	0.00E0
2008	0.00E0	0.00E0	0.00E0	0.00E0
2009	0.00E0	0.00E0	0.00E0	0.00E0
2010	0.00E0	0.00E0	0.00E0	0.00E0
2011	0.00E0	0.00E0	0.00E0	2.16E1
2012	0.00E0	0.00E0	0.00E0	1.84E1
2013	0.00E0	0.00E0	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	1.10E1
2015	0.00E0	0.00E0	0.00E0	0.00E0
2016	0.00E0	0.00E0	0.00E0	0.00E0
2017	0.00E0	0.00E0	0.00E0	0.00E0
2018	0.00E0	0.00E0	0.00E0	0.00E0
2019	0.00E0	2.72E1	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	0.00E0	0.00E0	0.00E0
2023	0.00E0	0.00E0	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.8 SHORELINE SEDIMENT

During 2023, a total of six shoreline sediment samples were collected semiannually and analyzed, four from two indicator locations and two from the control location. The sample is dried, then sifted to remove any rocks and clams prior to analysis.

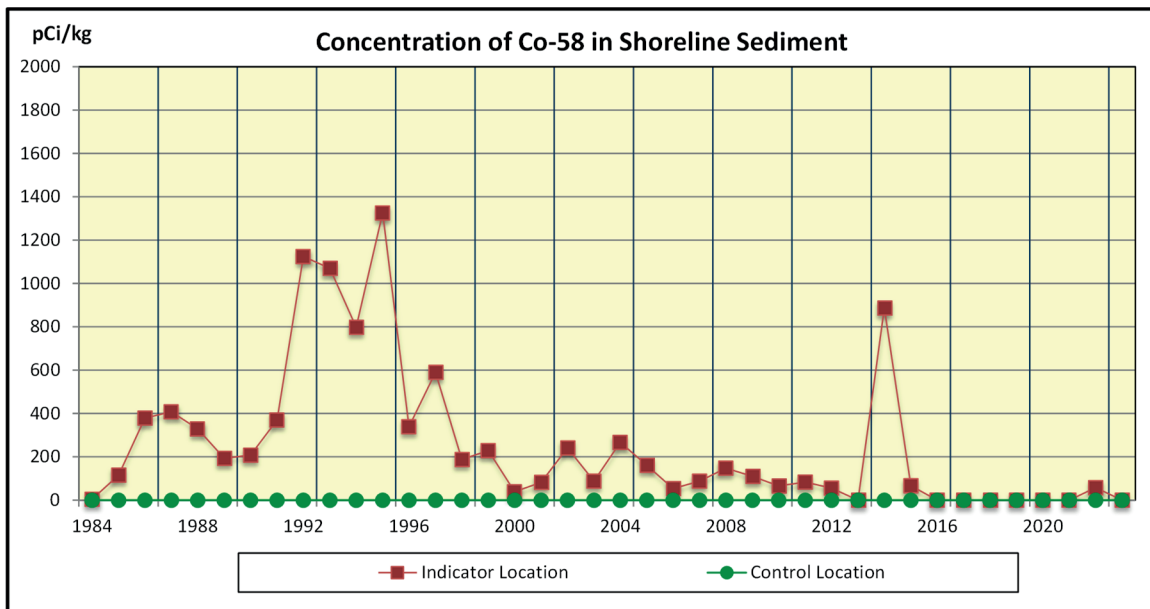
Co-60 was identified at indicator location 208 with an activity level of 108 pCi/kg. Co-58, Co-60, and Cs-137 are normally the predominant radionuclides identified in shoreline sediment samples. There were no gamma emitting radionuclides attributable to plant operations identified in samples from the control location in 2023.

Table 3.8 lists highest indicator location annual mean since 1984. Included in the table are radionuclides that have been identified in shoreline sediment samples since 1988.

Figures 3.8-1, 3.8-2, and 3.8-3 are graphs displaying annual mean concentrations for Co-58, Co-60, and Cs-137.

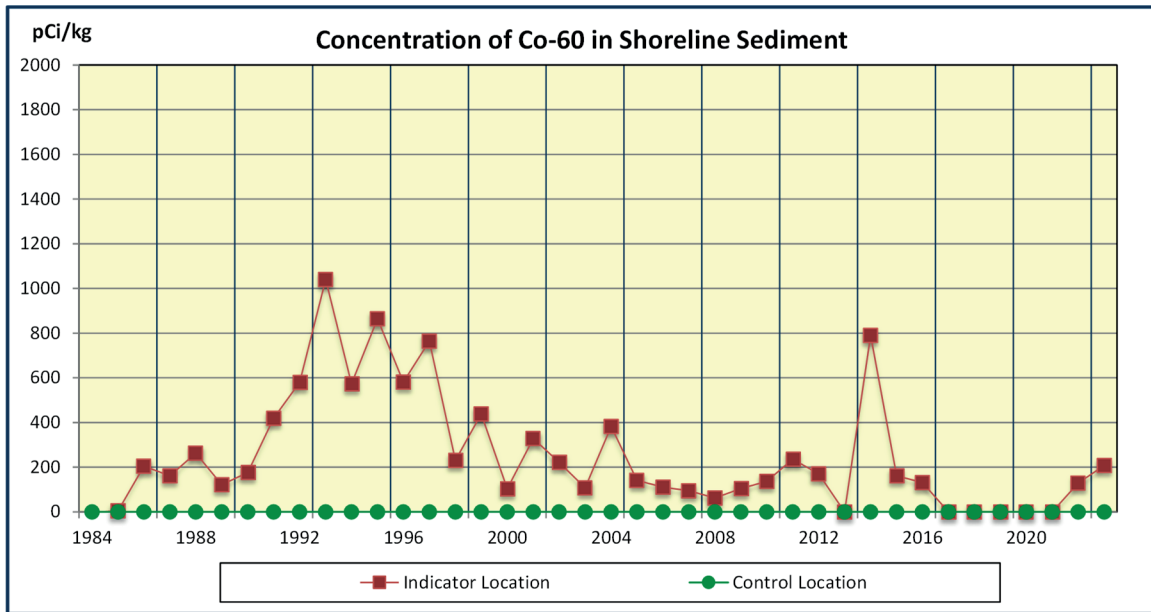
Naturally occurring K-40 and Be-7 were observed in some shoreline sediment samples collected during 2023.

Figure 3.8-1



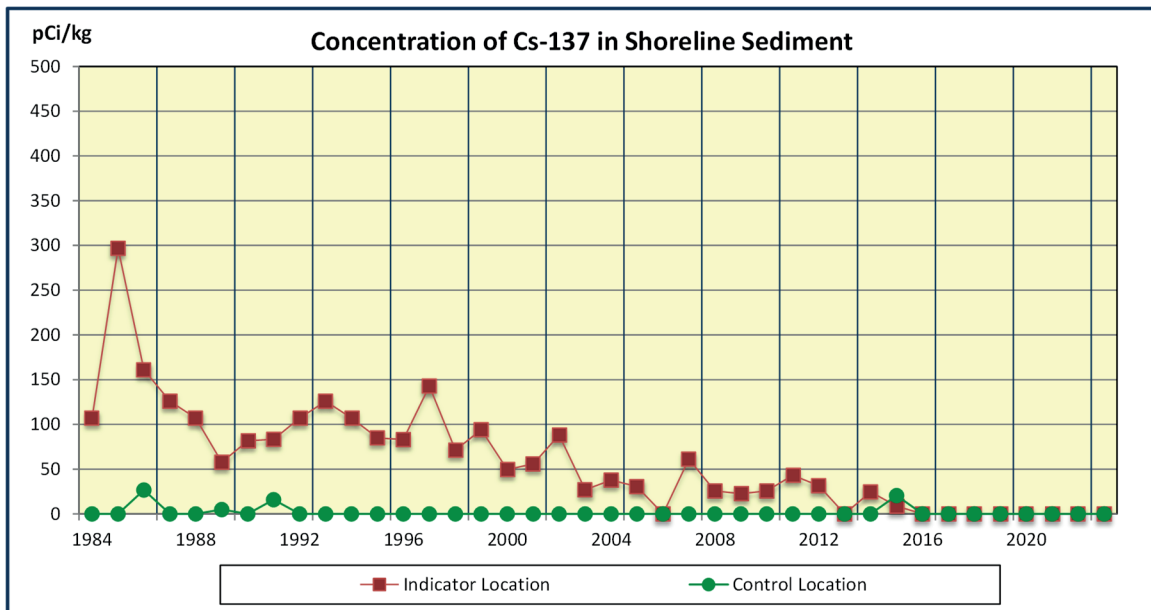
There is no reporting level for Co-58 in Shoreline Sediment

Figure 3.8-2



There is no reporting level for Co-60 in Shoreline Sediment

Figure 3.8-3



There is no reporting level for Cs-137 in Shoreline Sediment

Table 3.8 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

Year	Mn-54	Co-58	Co-60	Cs-134	Cs-137	Co-57
1984	1.03E0	4.40E0	-2.34E0	3.19E1	1.07E2	0.00E0
1985	-3.12E0	1.16E2	5.18E0	2.11E2	2.97E2	0.00E0
1986	1.09E2	3.79E2	2.05E2	6.50E1	1.61E2	0.00E0
1987 ⁽¹⁾	8.83E1	4.08E2	1.61E2	6.08E1	1.26E2	0.00E0
1988	1.07E2	3.29E2	2.63E2	2.59E1	1.07E2	7.65E-1
1989	4.58E1	1.94E2	1.21E2	1.65E1	5.77E1	0.00E0
1990	5.39E1	2.08E2	1.77E2	1.66E1	8.18E1	0.00E0
1991	8.50E1	3.70E2	4.19E2	1.82E1	8.33E1	1.20E0
1992	1.17E2	1.13E3	5.80E2	1.69E1	1.07E2	3.00E0
1993	1.33E2	1.07E3	1.04E3	2.80E1	1.26E2	2.47E1
1994	4.93E1	7.98E2	5.73E2	5.67E0	1.07E2	4.38E0
1995	1.02E2	1.33E3	8.65E2	0.00E0	8.50E1	3.69E1
1996	8.73E1	3.39E2	5.81E2	0.00E0	8.30E1	0.00E0
1997	6.96E1	5.90E2	7.64E2	0.00E0	1.43E2	0.00E0
1998	3.07E1	1.88E2	2.30E2	0.00E0	7.11E1	0.00E0
1999	7.28E1	2.29E2	4.39E2	0.00E0	9.42E1	0.00E0
2000	0.00E0	3.90E1	1.03E2	0.00E0	4.96E1	0.00E0
2001	3.86E1	8.27E1	3.29E2	0.00E0	5.58E1	0.00E0
2002	3.51E1	2.41E2	2.22E2	0.00E0	8.83E1	0.00E0
2003	2.17E1	8.75E1	1.08E2	0.00E0	2.69E1	0.00E0
2004	6.60E1	2.67E2	3.83E2	0.00E0	3.79E1	0.00E0
2005	0.00E0	1.61E2	1.41E2	0.00E0	3.04E1	0.00E0
2006	0.00E0	5.40E1	1.11E2	0.00E0	0.00E0	0.00E0
2007	0.00E0	8.77E1	9.46E1	0.00E0	6.13E1	0.00E0
2008	0.00E0	1.48E2	6.24E1	0.00E0	2.57E1	0.00E0
2009	0.00E0	1.10E2	1.04E2	0.00E0	2.27E1	0.00E0
2010	0.00E0	6.56E1	1.37E2	0.00E0	2.56E1	0.00E0
2011	0.00E0	8.36E1	2.36E2	3.62E1	4.33E1	1.05E1
2012	0.00E0	5.59E1	1.70E2	0.00E0	3.15E1	0.00E0
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2014 ^{(2) (3)}	6.84E1	8.87E2	7.90E2	0.00E0	2.46E1	0.00E0
2015	0.00E0	6.73E1	1.61E2	0.00E0	8.75E0	0.00E0
2016	0.00E0	0.00E0	1.31E2	0.00E0	0.00E0	0.00E0
2017	0.00E0	0.00E0	1.31E2	0.00E0	0.00E0	0.00E0
2018	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2019	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	5.84E1	1.29E2	0.00E0	0.00E0	0.00E0
2023	0.00E0	0.00E0	1.08E2	0.00E0	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014 No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

(3) 2014 – During the 3rd quarter, CNS experienced higher levels than normal of mixed fission and activation products in the liquid radioactive waste processing system and higher than normal liquid waste discharges (NCR # 01897053).

3.9 DIRECT GAMMA RADIATION

3.9.1 ENVIRONMENTAL TLD

Catawba is licensed with an exclusion area boundary defined by UFSAR Section 2.1.1.2 as a 2500 foot radius from station center. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. Catawba has forty-one Thermoluminescent dosimeter (TLD) locations which are collected quarterly. Sixteen TLDs, one in each meteorological sector in the general area of the site boundary are designated as "inner ring" and are within a 1 mile radius from station center and all are used as indicators. Sixteen TLD locations, one in each meteorological sector in the 6 to 8 kilometer range, are designated as "outer ring," they are outside the 1 mile "inner ring" but within a 5 mile radius of station center. All outer ring TLD locations are used as indicators. A subset of TLD locations within a 7 to 11 mile radius from station center are designated as "special interest," they are placed in population centers, residential areas, or schools. The three "control" locations are greater than 7 miles from station center. These locations were chosen to reduce the probability of influence from Catawba operation on data. The control locations are not used as background subtraction in the TLD analysis. Their purpose is to provide a comparison to indicator locations.

In 2023, 162 total TLDs were analyzed, 151 at indicator locations and 11 at control locations. TLDs are collected and analyzed quarterly. Transit and laboratory background dose is determined and subtracted from gross field readings as required by ANSI N545-1975. Based on Appendix B TLD data, the data on external radiation exposure for 2023 was essentially unchanged, with an average exposure for all of indicator locations of 18.1 mR per std. quarter. The TLD location with the highest annual mean of 27.1 mR per std. quarter was indicator location 264, India Hook Road, 4.32 mi SE. The three control TLD locations (217 (Blackmon Road 10.3 mi. SSE), 247 (Fort Mill 7.33 mi. ESE), 251 (Clover 9.72 mi. WNW)) had an annual mean of 14.3 mR per std. quarter. Figure 3.9 and Table 3.9 show TLD inner ring, outer ring, and control location annual averages in mR per std. quarter. Data is provided from 1984 when TLD locations were added and arranged in an inner ring and outer ring configuration. Preoperational data is also provided in the table. As shown in the graph, doses measured by environmental TLDs show little or no change since the current TLD system was implemented.

Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The low and high ranges are determined by the historical average $\pm$ two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)." The WP-RP-ALL-0030 – Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for the fleet TLD programs.

TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. No 2023 ODCM TLD location exceeded the quarterly investigation level therefore no additional evaluation was performed. Quarterly TLD results are in Appendix E.

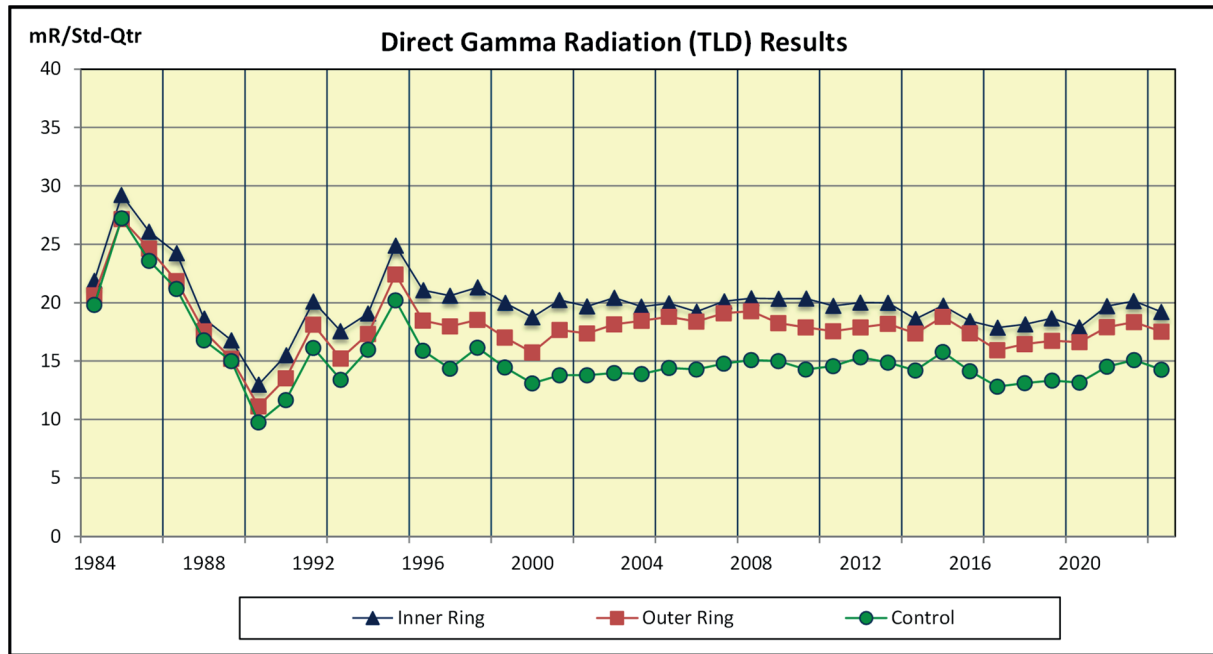
A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 4.7.

3.9.2 ISFSI

The Catawba ISFSI began operation in 2007. It is located approximately 0.2 miles north of station center in a secured area specifically constructed to provide dry storage for spent nuclear fuel. The ISFSI employs the NAC-UMS® and MAGNASTOR® vertical storage designs. Irradiated fuel assemblies are confined, protected, and shielded by a reinforced concrete module. Both systems are completely passive and designed to provide radiation shielding and safe confinement for a range of accident conditions and natural events. Both systems use a passive natural circulation ventilation system to remove decay heat from the modules. No radiological liquid or gaseous effluents are expected from the passive storage provided by the ISFSI. Therefore, any dose to offsite locations would be from direct and scattered gamma radiation.

Environmental TLD results described in 3.9.1 above are reviewed quarterly to identify trends and demonstrate compliance with dose and dose rate limits at the 2500 foot exclusion area boundary. Additional TLD locations not associated with REMP are presently located on the Catawba protected area fence near the ISFSI and on the ISFSI boundary. These are used to demonstrate compliance with occupational exposure controls and augment REMP TLD results. Doses measured by environmental TLDs show little or no change since the ISFSI began operation.

Figure 3.9



There is no reporting level for Direct Radiation (TLD)

Table 3.9 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR per std. quarter)	Outer Ring Average (mR per std. quarter)	Control Average (mR per std. quarter)
1984*	2.19E+01	2.07E+01	1.98E+01
1985	2.92E+01	2.72E+01	2.72E+01
1986	2.61E+01	2.46E+01	2.36E+01
1987	2.43E+01	2.19E+01	2.12E+01
1988	1.87E+01	1.76E+01	1.68E+01
1989	1.68E+01	1.52E+01	1.50E+01
1990	1.30E+01	1.11E+01	9.78E+00
1991	1.55E+01	1.35E+01	1.17E+01
1992	2.01E+01	1.81E+01	1.61E+01
1993	1.76E+01	1.52E+01	1.34E+01
1994	1.91E+01	1.73E+01	1.60E+01
1995	2.49E+01	2.24E+01	2.02E+01
1996	2.11E+01	1.85E+01	1.59E+01
1997	2.06E+01	1.80E+01	1.44E+01
1998	2.13E+01	1.86E+01	1.62E+01
1999	2.00E+01	1.70E+01	1.45E+01
2000	1.88E+01	1.57E+01	1.31E+01
2001	2.02E+01	1.77E+01	1.38E+01
2002	1.97E+01	1.74E+01	1.38E+01
2003	2.04E+01	1.82E+01	1.40E+01
2004	1.97E+01	1.85E+01	1.39E+01
2005	2.00E+01	1.88E+01	1.44E+01
2006	1.92E+01	1.84E+01	1.43E+01
2007	2.01E+01	1.91E+01	1.48E+01
2008	2.04E+01	1.93E+01	1.51E+01
2009	2.04E+01	1.83E+01	1.50E+01
2010	2.04E+01	1.79E+01	1.43E+01
2011	1.97E+01	1.76E+01	1.46E+01
2012	2.00E+01	1.79E+01	1.53E+01
2013	2.00E+01	1.82E+01	1.49E+01
2014	1.86E+01	1.74E+01	1.42E+01
2015	1.98E+01	1.88E+01	1.58E+01
2016	1.84E+01	1.74E+01	1.41E+01
2017	1.79E+01	1.60E+01	1.28E+01
2018	1.82E+01	1.65E+01	1.31E+01
2019	1.87E+01	1.68E+01	1.34E+01
2020	1.79E+01	1.66E+01	1.32E+01
2021	1.97E+01	1.79E+01	1.45E+01
2022	2.02E+01	1.83E+01	1.51E+01
2023	1.92E+01	1.75E+01	1.43E+01

* Preoperational Data

3.10 LAND USE CENSUS

The 2023 Annual Land Use Census was conducted June 19-21, 2023 as required by SLC 16.11-14. The Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the station, the nearest location from the site boundary in each of the sixteen meteorological sectors, which includes: the nearest residence, the nearest garden greater than 50 square meters (500 square feet), the nearest milk-giving animal (cow, goat, etc.).

Table 3.10 summarizes the comparison between the 2022 and 2023 census results. A map indicating identified locations is shown in Figure 3.10.

During the 2023 census a goat milk location was identified in the SE Sector at 4.89 miles, however, the owners did not wish to participate in the CNS REMP. The nearest residence is located in the NE sector at 0.56 miles. No environmental program changes were required as a result of the 2023 land use census.

Table 3.10 Catawba 2023 Land Use Census Results

**Performed 6/19/2023 - 6/21/2023
Nearest Pathways (Miles)**

SECTOR	RESIDENCE		GARDEN		MILK ANIMAL	
	2022	2023	2022	2023	2022	2023
North	0.63	0.63	1.33	1.33	---	---
North-Northeast	0.66	0.66	2.75	2.75	---	---
Northeast	0.56	0.56	0.67	2.61*	---	---
East-Northeast	0.61	0.61	2.80	2.80	---	---
East	0.65	0.65	2.21	2.14*	---	---
East-Southeast	0.84	0.84	3.72	1.12*	---	---
Southeast	0.97	0.97	1.50	1.50	4.89 ⁽¹⁾	4.89 ⁽¹⁾
South-Southeast	0.80	0.73*	2.02	2.02	---	---
South	0.63	0.63	1.10	1.10	---	---
South-Southwest	0.78	0.78	1.03	1.03	---	---
Southwest	0.60	0.60	1.99	1.34*	---	---
West-Southwest	0.57	0.57	2.07	2.21*	---	---
West	0.62	0.62	0.96	0.96	---	---
West-Northwest	1.10	1.10	1.23	1.23	---	---
Northwest	1.27	1.27	2.41	1.72*	---	---
North-Northwest	0.86	0.86	1.04	1.04	---	---

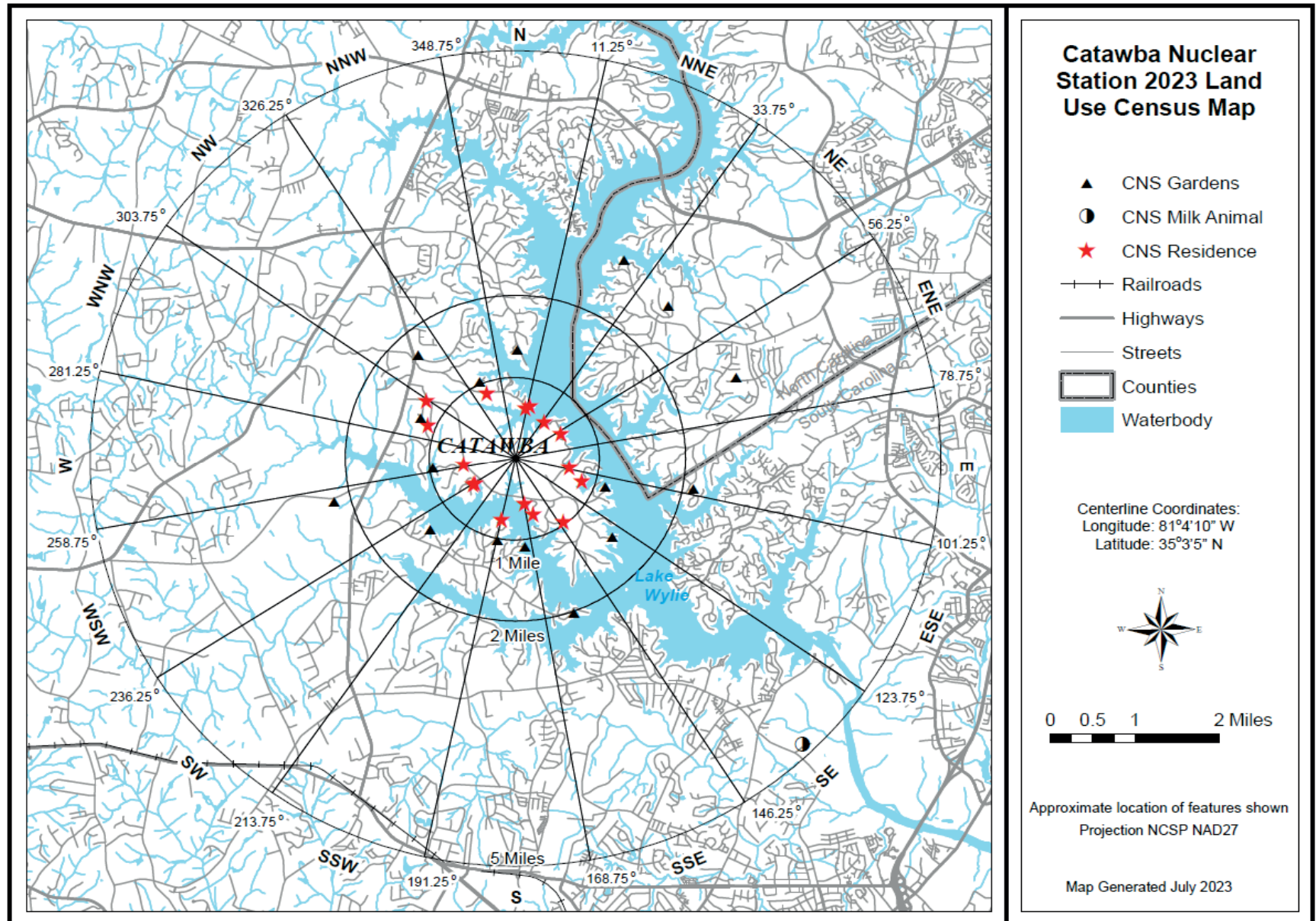
NOTE: Sector and distances were determined by Global Positioning System

*** Represents a change from the previous year**

--- Indicates no occurrence within 5 mile radius

(1) Indicates owners were not willing to participate in the REMP at time of LUC.

Figure 3.10



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

EnRad Laboratories and the Environmental Services Group performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include tritium analyses in drinking water, surface water, and ground water samples; beta analysis in drinking water samples, and Low-Level Iodine-131 analysis in milk samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 INTERCOMPARISON PROGRAM

Catawba Nuclear Station routinely participates in an environmental sample intercomparison program. Program elements include sampling frequency and analysis parameters for drinking water, surface water, milk, fish, broadleaf vegetation, crops, and shoreline sediment samples that have been collected. Samples are routinely split with a vendor laboratory for intercomparison analysis.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

2023

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at Catawba Nuclear Station was required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling was performed by EnRad Laboratories and Environmental Services. Environmental sample analysis was performed by EnRad Laboratories and Dosimetry and Records.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section.

I. CHANGE OF SAMPLING PROCEDURES

There were no changes to the Catawba Nuclear Station sampling procedures implemented during 2023.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or Perkin-Elmer 3100TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable, and sample contamination has not occurred.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a laboratory fortified blank and blank to verify instrument performance and ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

There were no changes to analysis procedures implemented during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2023

CATAWBA NUCLEAR STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Catawba Nuclear Station
York County, South Carolina

Docket Numbers 50-413, 414
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 260	See Table 2.2-C	2.33E-02 (208/208) 9.47E-03 – 4.28E-02	208 (0.45 mi S)	2.40E-02 (52/52) 1.19E-02 – 4.28E-02	258 (9.84 mi W) 2.18E-02 (52/52) 1.01E-02 – 3.64E-02	0
	Gamma 20	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 260	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 26	See Table 2.2-C	3.80E+00 (4/13) 3.65E+00 – 4.03E+00	214 (7.30 mi SSE)	3.80E+00 (4/13) 3.65E+00 – 4.03E+00	218 (13.5 mi NNE) 3.83E+00 (3/13) 3.46E+00 – 4.31E+00	0
	Gamma 26	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 8 ⁽⁵⁾	See Table 2.2-C	7.49E+02 (4/4) 5.57E+02 – 8.92E+02	214 (7.30 mi SSE)	7.49E+02 (4/4) 5.57E+02 – 8.92E+02	218 (13.5 mi NNE) 4.29E+02 (4/4) 2.35E+02 – 6.35E+02	0
Surface Water (pCi/l)	Gamma 39 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 12 ⁽⁵⁾	See Table 2.2-C	4.51E+03 (8/8) 6.03E+02 – 1.64E+04	208 (0.45 mi S)	8.29E+03 (4/4) 3.85E+03 – 1.64E+04	263 (0.59 mi NNE) 4.31E+02 (4/4) 2.19E+02 – 5.44E+02	0
Milk (pCi/l)	Gamma 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0
	I-131 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0

**CATAWBA NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Catawba Nuclear Station
York County, South Carolina

Docket Numbers 50-413, 414
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean Name, Distance, and Direction	Mean Range ^{(2) (3)}	Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
Broadleaf Vegetation (pCi/kg, wet)	Gamma 60 Cs-137	See Table 2.2-C	4.32E+01 (1/48) 4.32E+01 – 4.32E+01	201 (0.53 mi NE)	4.32E+01 (1/12) 4.32E+01 – 4.32E+01	All less than LLD	0
Food Products (pCi/kg, wet)	Gamma 7 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	No Control Location	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Sediments--Shoreline (pCi/kg, dry)	Gamma 6 Co-60	See Table 2.2-C	1.08E+02 (1/4) 1.08E+02 – 1.08E+02	208 (0.45 mi S)	1.08E+02 (1/2) 1.08E+02 – 1.08E+02	All less than LLD	0
TLD (mR/Std Qtr)	TLD Readout 162 ^{(6) (4)}	-----	1.81E+01 (151/151) 1.14E+01 – 2.76E+01	264 (4.32 mi SE)	2.71E+01 (4/4) 2.55E+01 – 2.76E+01	217 (10.3 mi SSE) 247 (7.33 mi ESE) 251 (9.72 mi WNW) 1.43E+01 (11/11) 1.10E+01 – 1.87E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. Quarterly tritium composites determined using quarter days (92 days +/- 25% (23 days)).
6. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

2023

APPENDIX C

CATAWBA NUCLEAR STATION SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Catawba REMP air samplers operated for a total of 100% availability in 2023.

There were no air particulate and air radioiodine deviations in 2023.

Drinking Water and Surface Water

REMP monthly drinking water samples (Drinking Water (DW)) or surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The water samplers operated for a total of 99.75% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
263	8/8 – 9/6/2023	OT	Unknown downtime due to a float trip error on ISCO. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance, a grab sample was also obtained. The ISCO was removed and replaced with a newly calibrated ISCO. Normal operation was returned.	NCR # 02485938
208	10/3 – 10/31/2023	PI	111.82 hours downtime due to a float trip error on ISCO. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance, a grab sample was also obtained. The ISCO was removed and replaced with a newly calibrated ISCO. Normal operation was returned.	NCR # 02492712

C.2 UNAVAILABLE ANALYSES

Food Products / Crops

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
260	1/4/2023	SU	Sample seasonally unavailable at time of collection.	NCR # 02454740
260	2/7/2023	SU	Sample seasonally unavailable at time of collection.	NCR # 02459624
260	3/7/2023	SU	Sample seasonally unavailable at time of collection.	NCR # 02463881
260	4/4/2023	SU	Sample seasonally unavailable at time of collection.	NCR # 02467666
260	5/2/2023	SU	Sample seasonally unavailable at time of collection.	NCR # 02471112

TLDs

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
226	12/15/2022 – 3/16/2023	VN	Neither co-located alpha and bravo TLDs 226 were available at the time of collection due to vandalism.	NCR # 02465246
217	3/16 - 6/22/2023	VN	Neither co-located alpha and bravo TLDs 217 were available at the time of collection due to vandalism.	NCR # 02476990

APPENDIX D

ANALYTICAL DEVIATIONS

2023

APPENDIX D

CATAWBA NUCLEAR STATION ANALYTICAL DEVIATIONS

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

D.1 ANALYTICAL DEVIATIONS

Catawba environmental Alpha (A) and Bravo (B) TLDs are co-located TLDs placed next to each other to comply with ANSI/HPS N13.37-2014 Section 7.1 Paragraph 7. The TLD collections indicated incurred tampering/vandalism with one of the two co-located TLDs. One TLD for each collection was available and did not appear to have experienced any tampering/vandalism during the quarter. The remaining Bravo (B) TLD was collected and analyzed, but did not get averaged with the unusable Alpha (A) TLD which is normally included in the established process for the Catawba REMP TLDs.

TLDs

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
217	6/22 - 9/21/2023	VN	Bravo TLD 217 was not available at the time of collection due to vandalism, Alpha TLD 217 was collected and analyzed.	NCR # 02487588

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supporting data generated from each sample medium for 2023.

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	582659	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.65E-03	3.77E-03
Sample ID:	582968	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.77E-03	2.67E-03
Sample ID:	583151	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.95E-03	3.49E-03
Sample ID:	583503	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.36E-02	2.78E-03	3.39E-03
Sample ID:	584232	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.94E-03	3.21E-03
Sample ID:	584936	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.02E-03	3.09E-03
Sample ID:	585363	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	3.08E-03	3.74E-03
Sample ID:	585570	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.86E-03	3.21E-03
Sample ID:	585824	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.97E-03	3.55E-03
Sample ID:	586083	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.98E-03	3.44E-03
Sample ID:	586674	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.95E-03	2.88E-03
Sample ID:	586942	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.63E-03	2.82E-03
Sample ID:	587202	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.25E-03	3.26E-03
Sample ID:	587445	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.68E-03	0.00E+00	1.68E-03
				Cs-137	<1.62E-03	0.00E+00	1.62E-03
				Be-7	1.54E-01	3.58E-02	2.75E-02
				K-40	3.64E-02	1.86E-02	1.98E-02
Sample ID:	587440	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.80E-03	2.71E-03
Sample ID:	587779	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.08E-03	3.37E-03
Sample ID:	588313	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.94E-02	3.48E-03	3.14E-03
Sample ID:	588600	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.67E-03	2.66E-03
Sample ID:	589554	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	2.81E-03	3.18E-03
Sample ID:	589807	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.25E-03	3.32E-03
Sample ID:	590026	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.30E-03	2.34E-03
Sample ID:	590361	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.72E-03	3.40E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3
Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	590496	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.74E-03	3.36E-03
Sample ID:	590651	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.13E-03	3.59E-03
Sample ID:	591209	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.24E-03	2.97E-03
Sample ID:	591445	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	2.66E-03	3.36E-03
Sample ID:	591631	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.16E-03	3.05E-03
Sample ID:	591828	Sample Dates:	4/4/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.64E-03	0.00E+00	1.64E-03
				Cs-137	<1.04E-03	0.00E+00	1.04E-03
				Be-7	1.51E-01	3.76E-02	3.67E-02
				K-40	<3.30E-02	0.00E+00	3.30E-02
Sample ID:	591823	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.10E-03	2.98E-03
Sample ID:	592196	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.14E-03	3.15E-03
Sample ID:	592415	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.36E-03	3.17E-03
Sample ID:	593012	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.19E-03	2.80E-03
Sample ID:	593182	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.25E-03	3.58E-03
Sample ID:	593564	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.22E-03	3.69E-03
Sample ID:	593816	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.04E-03	2.80E-03
Sample ID:	594290	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.45E-02	3.35E-03	2.90E-03
Sample ID:	594803	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	2.68E-03	2.30E-03
Sample ID:	594997	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.75E-03	4.30E-03
Sample ID:	595641	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.33E-03	3.26E-03
Sample ID:	596401	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.00E-02	3.33E-03	3.14E-03
Sample ID:	596792	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.43E-03	2.63E-03
Sample ID:	597285	Sample Dates:	7/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.63E-03	0.00E+00	1.63E-03
				Cs-137	<1.76E-03	0.00E+00	1.76E-03
				Be-7	1.48E-01	3.52E-02	2.59E-02
				K-40	<3.03E-02	0.00E+00	3.03E-02
Sample ID:	597280	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.29E-03	3.36E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3
Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	597876	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.47E-03	3.17E-03
Sample ID:	598219	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.08E-03	3.03E-03
Sample ID:	598873	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.36E-03	3.04E-03
Sample ID:	599071	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.03E-02	3.94E-03	3.24E-03
Sample ID:	599467	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.86E-02	4.25E-03	3.87E-03
Sample ID:	600314	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.04E-02	3.12E-03	2.63E-03
Sample ID:	601130	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	2.85E-03	2.85E-03
Sample ID:	601291	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.68E-02	3.47E-03	3.02E-03
Sample ID:	601786	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.34E-03	2.95E-03
Sample ID:	602267	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	2.98E-03	2.47E-03
Sample ID:	602514	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.79E-03	2.83E-03
Sample ID:	602720	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.66E-02	3.25E-03	3.11E-03
Sample ID:	602938	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.39E-03	0.00E+00	2.39E-03
				Cs-137	<1.58E-03	0.00E+00	1.58E-03
				Be-7	1.22E-01	3.35E-02	2.94E-02
				K-40	<3.18E-02	0.00E+00	3.18E-02

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	582660	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.53E-03	3.76E-03
Sample ID:	582969	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.89E-03	2.67E-03
Sample ID:	583152	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.88E-03	3.50E-03
Sample ID:	583504	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.94E-03	3.38E-03
Sample ID:	584233	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.97E-03	3.22E-03
Sample ID:	584937	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.99E-03	3.08E-03
Sample ID:	585364	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.19E-03	3.75E-03
Sample ID:	585571	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.03E-03	3.20E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	585825	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.98E-03	3.55E-03
Sample ID:	586084	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.07E-03	3.43E-03
Sample ID:	586675	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.01E-03	2.89E-03
Sample ID:	586943	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.76E-03	2.80E-03
Sample ID:	587203	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	3.07E-03	3.27E-03
Sample ID:	587446	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.01E-03	0.00E+00	1.01E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.42E-01	3.54E-02	3.21E-02
				K-40	<3.22E-02	0.00E+00	3.22E-02
Sample ID:	587441	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	2.84E-03	2.70E-03
Sample ID:	587780	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.06E-03	3.40E-03
Sample ID:	588314	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.50E-03	3.11E-03
Sample ID:	588601	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.66E-03	2.66E-03
Sample ID:	589555	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.96E-03	3.17E-03
Sample ID:	589808	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.16E-03	3.33E-03
Sample ID:	590027	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.66E-03	2.63E-03
Sample ID:	590362	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.73E-03	3.40E-03
Sample ID:	590497	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.89E-03	3.36E-03
Sample ID:	590652	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.42E-03	3.60E-03
Sample ID:	591210	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	3.17E-03	2.96E-03
Sample ID:	591446	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.04E-02	2.60E-03	3.36E-03
Sample ID:	591632	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.18E-03	3.05E-03
Sample ID:	591829	Sample Dates:	4/4/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.02E-03	0.00E+00	1.02E-03
				Cs-137	<1.24E-03	0.00E+00	1.24E-03
				Be-7	1.61E-01	3.67E-02	2.87E-02
				K-40	<2.74E-02	0.00E+00	2.74E-02
Sample ID:	591824	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.75E-02	3.19E-03	2.98E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	592197	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.15E-03	3.14E-03
Sample ID:	592416	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.29E-03	3.18E-03
Sample ID:	593013	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.23E-03	2.80E-03
Sample ID:	593183	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.34E-03	3.59E-03
Sample ID:	593565	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.19E-03	3.68E-03
Sample ID:	593817	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	2.98E-03	2.80E-03
Sample ID:	594291	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.08E-02	3.58E-03	2.90E-03
Sample ID:	594804	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	2.80E-03	2.31E-03
Sample ID:	594998	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.85E-03	4.27E-03
Sample ID:	595642	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.97E-02	3.42E-03	3.26E-03
Sample ID:	596402	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.12E-02	3.38E-03	3.14E-03
Sample ID:	596793	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.48E-03	2.64E-03
Sample ID:	597286	Sample Dates:	7/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.27E-03	0.00E+00	1.27E-03
				Cs-137	<1.69E-03	0.00E+00	1.69E-03
				Be-7	1.46E-01	3.46E-02	2.37E-02
				K-40	<3.98E-02	0.00E+00	3.98E-02
Sample ID:	597281	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.77E-02	3.43E-03	3.35E-03
Sample ID:	597877	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.35E-02	3.64E-03	3.17E-03
Sample ID:	598220	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.12E-03	3.03E-03
Sample ID:	598874	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.34E-03	3.08E-03
Sample ID:	599072	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.23E-02	4.00E-03	3.21E-03
Sample ID:	599468	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.16E-02	4.36E-03	3.85E-03
Sample ID:	600315	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.23E-02	3.19E-03	2.62E-03
Sample ID:	601131	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.10E-02	2.86E-03	2.88E-03
Sample ID:	601292	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.24E-02	3.29E-03	2.99E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	601787	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.84E-02	3.35E-03	2.98E-03
Sample ID:	602268	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	2.89E-03	2.45E-03
Sample ID:	602515	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.00E-03	2.86E-03
Sample ID:	602721	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.23E-03	3.10E-03
Sample ID:	602939	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.04E-03	0.00E+00	2.04E-03
				Cs-137	<1.03E-03	0.00E+00	1.03E-03
				Be-7	1.35E-01	3.57E-02	3.31E-02
				K-40	<3.41E-02	0.00E+00	3.41E-02

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	582661	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.65E-03	3.76E-03
Sample ID:	582970	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.78E-03	2.67E-03
Sample ID:	583153	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.92E-03	3.50E-03
Sample ID:	583505	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	3.00E-03	3.38E-03
Sample ID:	584234	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.01E-03	3.22E-03
Sample ID:	584938	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.89E-03	3.08E-03
Sample ID:	585365	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	3.00E-03	3.75E-03
Sample ID:	585572	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.04E-03	3.20E-03
Sample ID:	585826	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.13E-03	3.55E-03
Sample ID:	586085	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.30E-03	3.44E-03
Sample ID:	586676	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.98E-03	2.89E-03
Sample ID:	586944	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.72E-03	2.80E-03
Sample ID:	587204	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.21E-03	3.26E-03
Sample ID:	587447	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.51E-03	0.00E+00	1.51E-03
				Be-7	1.65E-01	3.62E-02	2.44E-02
				K-40	2.42E-02	1.31E-02	4.68E-03
Sample ID:	587442	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	2.78E-03	2.71E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3
Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	587781	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.98E-02	3.11E-03	3.39E-03
Sample ID:	588315	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.97E-02	3.47E-03	3.11E-03
Sample ID:	588602	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.97E-02	2.66E-03	2.66E-03
Sample ID:	589556	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.45E-02	2.75E-03	3.18E-03
Sample ID:	589809	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.17E-02	3.18E-03	3.33E-03
Sample ID:	590028	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.57E-02	2.45E-03	2.63E-03
Sample ID:	590363	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.19E-02	2.70E-03	3.41E-03
Sample ID:	590498	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.71E-02	2.95E-03	3.35E-03
Sample ID:	590653	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.28E-02	3.31E-03	3.60E-03
Sample ID:	591211	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.20E-02	3.07E-03	2.96E-03
Sample ID:	591447	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.32E-02	2.76E-03	3.36E-03
Sample ID:	591633	Sample Dates: 6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.80E-02	3.28E-03	3.05E-03
Sample ID:	591830	Sample Dates: 4/4/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.57E-03	0.00E+00	1.57E-03
			Cs-137	<1.70E-03	0.00E+00	1.70E-03
			Be-7	1.46E-01	3.62E-02	3.04E-02
			K-40	<2.76E-02	0.00E+00	2.76E-02
Sample ID:	591825	Sample Dates: 7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.61E-02	3.13E-03	2.98E-03
Sample ID:	592198	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.36E-02	3.17E-03	3.14E-03
Sample ID:	592417	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.66E-02	3.36E-03	3.17E-03
Sample ID:	593014	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.83E-02	3.28E-03	2.80E-03
Sample ID:	593184	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.26E-02	3.30E-03	3.59E-03
Sample ID:	593566	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.81E-02	3.11E-03	3.68E-03
Sample ID:	593818	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.83E-02	3.09E-03	2.80E-03
Sample ID:	594292	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.57E-02	3.39E-03	2.90E-03
Sample ID:	594805	Sample Dates: 8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.55E-02	2.69E-03	2.31E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	594999	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.80E-03	4.28E-03
Sample ID:	595643	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.31E-03	3.26E-03
Sample ID:	596403	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.38E-02	3.48E-03	3.14E-03
Sample ID:	596794	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.50E-03	2.64E-03
Sample ID:	597287	Sample Dates:	7/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.07E-03	0.00E+00	2.07E-03
				Cs-137	<1.48E-03	0.00E+00	1.48E-03
				Be-7	1.59E-01	4.06E-02	4.02E-02
				K-40	<3.10E-02	0.00E+00	3.10E-02
Sample ID:	597282	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.67E-02	3.39E-03	3.35E-03
Sample ID:	597878	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.53E-02	3.73E-03	3.17E-03
Sample ID:	598221	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	3.10E-03	3.03E-03
Sample ID:	598875	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.81E-02	3.41E-03	3.08E-03
Sample ID:	599073	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.89E-02	3.86E-03	3.21E-03
Sample ID:	599469	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.28E-02	4.41E-03	3.86E-03
Sample ID:	600316	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.41E-02	3.26E-03	2.62E-03
Sample ID:	601132	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.06E-03	2.88E-03
Sample ID:	601293	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.06E-02	3.57E-03	2.98E-03
Sample ID:	601788	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.30E-03	2.98E-03
Sample ID:	602269	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	2.96E-03	2.45E-03
Sample ID:	602516	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.95E-03	2.87E-03
Sample ID:	602722	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.22E-03	3.10E-03
Sample ID:	602940	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.59E-03	0.00E+00	1.59E-03
				Cs-137	<1.30E-03	0.00E+00	1.30E-03
				Be-7	1.37E-01	3.36E-02	2.48E-02
				K-40	<3.18E-02	0.00E+00	3.18E-02

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	582662	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.51E-03	3.75E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	582971	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	2.81E-03	2.67E-03
Sample ID:	583154	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.81E-03	3.50E-03
Sample ID:	583506	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.83E-03	3.38E-03
Sample ID:	584235	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.90E-03	3.23E-03
Sample ID:	584939	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.76E-03	3.07E-03
Sample ID:	585366	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.09E-03	3.76E-03
Sample ID:	585573	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.77E-03	3.20E-03
Sample ID:	585827	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.93E-03	3.57E-03
Sample ID:	586086	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	3.02E-03	3.42E-03
Sample ID:	586677	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.92E-03	2.89E-03
Sample ID:	586945	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.73E-03	2.80E-03
Sample ID:	587205	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.17E-03	3.28E-03
Sample ID:	587448	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.06E-03	0.00E+00	2.06E-03
				Cs-137	<1.58E-03	0.00E+00	1.58E-03
				Be-7	1.65E-01	3.82E-02	2.97E-02
				K-40	<2.60E-02	0.00E+00	2.60E-02
Sample ID:	587443	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.72E-03	2.70E-03
Sample ID:	587782	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.94E-03	3.39E-03
Sample ID:	588316	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.37E-03	3.11E-03
Sample ID:	588603	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.41E-03	2.67E-03
Sample ID:	589557	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.84E-03	3.16E-03
Sample ID:	589810	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	3.02E-03	3.33E-03
Sample ID:	590029	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.48E-03	2.63E-03
Sample ID:	590364	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.82E-03	3.40E-03
Sample ID:	590499	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.69E-03	3.36E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	590654	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.24E-03	3.60E-03
Sample ID:	591212	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.19E-03	2.95E-03
Sample ID:	591448	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.58E-03	3.37E-03
Sample ID:	591634	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.25E-03	3.06E-03
Sample ID:	591831	Sample Dates:	4/4/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.68E-03	0.00E+00	1.68E-03
				Cs-137	<1.50E-03	0.00E+00	1.50E-03
				Be-7	1.35E-01	3.89E-02	4.26E-02
				K-40	3.49E-02	1.82E-02	1.96E-02
Sample ID:	591826	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.74E-03	2.98E-03
Sample ID:	592199	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.96E-03	3.14E-03
Sample ID:	592418	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.34E-03	3.18E-03
Sample ID:	593015	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.76E-02	3.26E-03	2.81E-03
Sample ID:	593185	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	3.08E-03	3.58E-03
Sample ID:	593567	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	3.06E-03	3.68E-03
Sample ID:	593819	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	2.93E-03	2.80E-03
Sample ID:	594293	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.60E-02	3.40E-03	2.90E-03
Sample ID:	594806	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	2.80E-03	2.32E-03
Sample ID:	595000	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.58E-03	4.26E-03
Sample ID:	595644	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.38E-03	3.26E-03
Sample ID:	596404	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.14E-02	3.38E-03	3.13E-03
Sample ID:	596795	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.53E-03	2.65E-03
Sample ID:	597288	Sample Dates:	7/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.46E-03	0.00E+00	1.46E-03
				Cs-137	<1.77E-03	0.00E+00	1.77E-03
				Be-7	1.25E-01	3.61E-02	3.86E-02
				K-40	<3.38E-02	0.00E+00	3.38E-02
Sample ID:	597283	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.24E-03	3.33E-03
Sample ID:	597879	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.89E-02	3.46E-03	3.19E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	598222	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.01E-03	3.01E-03
Sample ID:	598876	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.91E-02	3.46E-03	3.08E-03
Sample ID:	599074	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.57E-02	3.74E-03	3.22E-03
Sample ID:	599470	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.64E-02	4.14E-03	3.84E-03
Sample ID:	600317	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.11E-03	2.60E-03
Sample ID:	601133	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.86E-03	2.90E-03
Sample ID:	601294	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.23E-02	3.25E-03	2.94E-03
Sample ID:	601789	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.26E-03	3.02E-03
Sample ID:	602270	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	2.81E-03	2.41E-03
Sample ID:	602517	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.80E-03	2.91E-03
Sample ID:	602723	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.73E-02	3.28E-03	3.11E-03
Sample ID:	602941	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.45E-03	0.00E+00	1.45E-03
				Cs-137	<1.33E-03	0.00E+00	1.33E-03
				Be-7	1.02E-01	3.07E-02	2.97E-02
				K-40	3.46E-02	1.78E-02	1.92E-02

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	582663	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.43E-03	3.76E-03
Sample ID:	582972	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	2.89E-03	2.67E-03
Sample ID:	583155	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.22E-02	2.83E-03	3.48E-03
Sample ID:	583507	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.96E-03	3.39E-03
Sample ID:	584236	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.90E-03	3.22E-03
Sample ID:	584940	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.80E-03	3.08E-03
Sample ID:	585367	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	3.01E-03	3.77E-03
Sample ID:	585574	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.89E-03	3.19E-03
Sample ID:	585828	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.93E-03	3.55E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3
Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	586087	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	3.06E-03	3.44E-03
Sample ID:	586678	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.77E-03	2.88E-03
Sample ID:	586946	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.47E-03	2.82E-03
Sample ID:	587206	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	3.06E-03	3.26E-03
Sample ID:	587449	Sample Dates:	1/4/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.10E-03	0.00E+00	2.10E-03
				Cs-137	<1.51E-03	0.00E+00	1.51E-03
				Be-7	1.40E-01	3.76E-02	3.72E-02
				K-40	<4.49E-02	0.00E+00	4.49E-02
Sample ID:	587444	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.74E-03	2.71E-03
Sample ID:	587783	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.92E-03	3.37E-03
Sample ID:	588317	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.80E-02	3.42E-03	3.14E-03
Sample ID:	588604	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.50E-03	2.66E-03
Sample ID:	589558	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.79E-03	3.18E-03
Sample ID:	589811	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.22E-03	3.32E-03
Sample ID:	590030	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.39E-03	2.63E-03
Sample ID:	590365	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.47E-03	2.55E-03	3.40E-03
Sample ID:	590500	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.74E-03	3.36E-03
Sample ID:	590655	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.21E-03	3.59E-03
Sample ID:	591213	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.22E-03	2.97E-03
Sample ID:	591449	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.02E-02	2.58E-03	3.36E-03
Sample ID:	591635	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.14E-03	3.05E-03
Sample ID:	591832	Sample Dates:	4/4/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<9.88E-04	0.00E+00	9.88E-04
				Cs-137	<2.99E-04	0.00E+00	2.99E-04
				Be-7	1.39E-01	3.54E-02	3.28E-02
				K-40	3.93E-02	1.76E-02	1.47E-02
Sample ID:	591827	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.10E-03	2.98E-03
Sample ID:	592200	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.15E-03	3.15E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3
Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	592419	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.71E-02	3.38E-03	3.17E-03
Sample ID:	593016	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.82E-02	3.27E-03	2.80E-03
Sample ID:	593186	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.93E-02	3.14E-03	3.58E-03
Sample ID:	593568	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.66E-02	3.04E-03	3.69E-03
Sample ID:	593820	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.82E-02	3.08E-03	2.80E-03
Sample ID:	594294	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.81E-02	3.48E-03	2.90E-03
Sample ID:	594807	Sample Dates: 8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.50E-02	2.67E-03	2.32E-03
Sample ID:	595001	Sample Dates: 9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.70E-02	3.42E-03	4.28E-03
Sample ID:	595645	Sample Dates: 9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.78E-02	3.34E-03	3.26E-03
Sample ID:	596405	Sample Dates: 9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.94E-02	3.30E-03	3.13E-03
Sample ID:	596796	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.79E-02	2.56E-03	2.63E-03
Sample ID:	597289	Sample Dates: 7/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.89E-03	0.00E+00	1.89E-03
			Cs-137	<2.06E-03	0.00E+00	2.06E-03
			Be-7	1.31E-01	3.59E-02	3.34E-02
			K-40	3.31E-02	1.97E-02	2.45E-02
Sample ID:	597284	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.68E-02	3.40E-03	3.36E-03
Sample ID:	597880	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.92E-02	3.46E-03	3.17E-03
Sample ID:	598223	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.13E-02	3.05E-03	3.03E-03
Sample ID:	598877	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.57E-02	3.28E-03	3.05E-03
Sample ID:	599075	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	4.19E-02	3.99E-03	3.23E-03
Sample ID:	599471	Sample Dates: 11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	4.13E-02	4.37E-03	3.87E-03
Sample ID:	600318	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.94E-02	3.07E-03	2.62E-03
Sample ID:	601134	Sample Dates: 11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.23E-02	2.91E-03	2.87E-03
Sample ID:	601295	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.42E-02	3.36E-03	2.99E-03
Sample ID:	601790	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.66E-02	3.27E-03	2.98E-03

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	602271	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	2.80E-03	2.45E-03
Sample ID:	602518	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	2.87E-03	2.86E-03
Sample ID:	602724	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.20E-03	3.11E-03
Sample ID:	602942	Sample Dates:	10/3/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.42E-03	0.00E+00	1.42E-03
				Cs-137	<1.53E-03	0.00E+00	1.53E-03
				Be-7	1.23E-01	3.31E-02	3.03E-02
				K-40	<2.98E-02	0.00E+00	2.98E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	582669	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.09E-02	0.00E+00	4.09E-02
				Cs-134	<3.56E-02	0.00E+00	3.56E-02
				Cs-137	<3.22E-02	0.00E+00	3.22E-02
				Be-7	<2.56E-01	0.00E+00	2.56E-01
				K-40	5.43E-01	3.11E-01	3.55E-01
Sample ID:	582973	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.03E-02	0.00E+00	3.03E-02
				Cs-134	<2.79E-02	0.00E+00	2.79E-02
				Cs-137	<2.63E-02	0.00E+00	2.63E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	4.89E-01	2.46E-01	2.53E-01
Sample ID:	583156	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.37E-02	0.00E+00	4.37E-02
				Cs-134	<3.07E-02	0.00E+00	3.07E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<2.76E-01	0.00E+00	2.76E-01
				K-40	5.58E-01	2.67E-01	8.40E-02
Sample ID:	583508	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.79E-02	0.00E+00	2.79E-02
				Cs-134	<2.62E-02	0.00E+00	2.62E-02
				Cs-137	<2.24E-02	0.00E+00	2.24E-02
				Be-7	<2.49E-01	0.00E+00	2.49E-01
				K-40	<5.32E-01	0.00E+00	5.32E-01
Sample ID:	584237	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.44E-02	0.00E+00	3.44E-02
				Cs-134	<2.42E-02	0.00E+00	2.42E-02
				Cs-137	<2.59E-02	0.00E+00	2.59E-02
				Be-7	<1.86E-01	0.00E+00	1.86E-01
				K-40	7.71E-01	3.22E-01	2.92E-01
Sample ID:	584941	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<2.57E-02	0.00E+00	2.57E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	4.50E-01	2.47E-01	2.81E-01
Sample ID:	585368	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	4.31E-01	2.39E-01	2.68E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	585575	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.00E-02	0.00E+00	3.00E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<1.36E-01	0.00E+00	1.36E-01
				K-40	4.86E-01	2.58E-01	2.95E-01
Sample ID:	585829	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<2.29E-02	0.00E+00	2.29E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	<5.69E-01	0.00E+00	5.69E-01
Sample ID:	586088	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.88E-02	0.00E+00	3.88E-02
				Cs-134	<3.45E-02	0.00E+00	3.45E-02
				Cs-137	<3.70E-02	0.00E+00	3.70E-02
				Be-7	<2.12E-01	0.00E+00	2.12E-01
				K-40	5.18E-01	2.95E-01	3.27E-01
Sample ID:	586679	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.16E-02	0.00E+00	3.16E-02
				Cs-134	<3.01E-02	0.00E+00	3.01E-02
				Cs-137	<2.02E-02	0.00E+00	2.02E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	7.12E-01	2.94E-01	2.71E-01
Sample ID:	586947	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<2.81E-02	0.00E+00	2.81E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	3.38E-01	2.90E-01	4.36E-01
Sample ID:	587207	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.20E-02	0.00E+00	2.20E-02
				Cs-134	<3.03E-02	0.00E+00	3.03E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	<4.50E-01	0.00E+00	4.50E-01
Sample ID:	587450	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.69E-02	0.00E+00	2.69E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<1.55E-02	0.00E+00	1.55E-02
				Be-7	<1.83E-01	0.00E+00	1.83E-01
				K-40	5.15E-01	2.49E-01	2.21E-01
Sample ID:	587784	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.04E-02	0.00E+00	4.04E-02
				Cs-134	<2.62E-02	0.00E+00	2.62E-02
				Cs-137	<2.85E-02	0.00E+00	2.85E-02
				Be-7	<2.26E-01	0.00E+00	2.26E-01
				K-40	5.40E-01	2.80E-01	3.00E-01
Sample ID:	588318	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.01E-02	0.00E+00	3.01E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<2.44E-02	0.00E+00	2.44E-02
				Be-7	<1.87E-01	0.00E+00	1.87E-01
				K-40	3.34E-01	2.83E-01	4.16E-01
Sample ID:	588605	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.45E-02	0.00E+00	2.45E-02
				Cs-134	<2.33E-02	0.00E+00	2.33E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID: 588605	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	2.49E-01	1.76E-01	1.92E-01
Sample ID: 589559	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<6.29E-01	0.00E+00	6.29E-01
Sample ID: 589812	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.56E-02	0.00E+00	3.56E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	7.85E-01	3.43E-01	3.58E-01
Sample ID: 590031	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	3.98E-01	2.59E-01	3.43E-01
Sample ID: 590366	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	<5.18E-01	0.00E+00	5.18E-01
Sample ID: 590501	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	4.94E-01	2.25E-01	6.70E-02
Sample ID: 590656	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	8.61E-01	2.99E-01	6.67E-02
Sample ID: 591214	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	6.65E-01	3.15E-01	3.36E-01
Sample ID: 591450	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<3.00E-02	0.00E+00	3.00E-02
		K-40	4.53E-01	2.16E-01	6.82E-02
Sample ID: 591636	Sample Dates: 6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<5.93E-01	0.00E+00	5.93E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	591833	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.79E-02	0.00E+00	3.79E-02
				Cs-134	<3.03E-02	0.00E+00	3.03E-02
				Cs-137	<2.93E-02	0.00E+00	2.93E-02
				Be-7	<1.98E-01	0.00E+00	1.98E-01
				K-40	6.25E-01	2.83E-01	2.84E-01
Sample ID:	592201	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.74E-02	0.00E+00	1.74E-02
				Cs-134	<1.72E-02	0.00E+00	1.72E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	5.83E-01	2.43E-01	6.58E-02
Sample ID:	592420	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.84E-02	0.00E+00	2.84E-02
				Cs-134	<2.03E-02	0.00E+00	2.03E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	6.10E-01	2.49E-01	6.62E-02
Sample ID:	593017	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.81E-02	0.00E+00	2.81E-02
				Cs-134	<2.21E-02	0.00E+00	2.21E-02
				Cs-137	<2.39E-02	0.00E+00	2.39E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	6.79E-01	2.84E-01	2.49E-01
Sample ID:	593187	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.78E-02	0.00E+00	2.78E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<4.44E-03	0.00E+00	4.44E-03
				Be-7	<1.81E-01	0.00E+00	1.81E-01
				K-40	5.09E-01	2.78E-01	3.31E-01
Sample ID:	593569	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.68E-02	0.00E+00	1.68E-02
				Be-7	<1.37E-01	0.00E+00	1.37E-01
				K-40	4.84E-01	2.35E-01	2.12E-01
Sample ID:	593821	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.43E-02	0.00E+00	2.43E-02
				Cs-134	<2.04E-02	0.00E+00	2.04E-02
				Cs-137	<1.20E-02	0.00E+00	1.20E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	4.48E-01	2.38E-01	2.44E-01
Sample ID:	594295	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.53E-02	0.00E+00	2.53E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.87E-01	0.00E+00	1.87E-01
				K-40	5.84E-01	2.77E-01	2.86E-01
Sample ID:	594808	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.19E-02	0.00E+00	2.19E-02
				Cs-134	<1.79E-02	0.00E+00	1.79E-02
				Cs-137	<2.02E-02	0.00E+00	2.02E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	3.48E-01	2.35E-01	3.15E-01
Sample ID:	595002	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.52E-02	0.00E+00	3.52E-02
				Cs-134	<3.50E-02	0.00E+00	3.50E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	595002	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	5.91E-01	2.83E-01	2.46E-01
Sample ID:	595646	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.14E-02	0.00E+00	4.14E-02
				Cs-134	<2.99E-02	0.00E+00	2.99E-02
				Cs-137	<2.79E-02	0.00E+00	2.79E-02
				Be-7	<2.79E-01	0.00E+00	2.79E-01
				K-40	8.82E-01	3.81E-01	3.47E-01
Sample ID:	596406	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.42E-02	0.00E+00	3.42E-02
				Cs-134	<2.36E-02	0.00E+00	2.36E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<2.34E-01	0.00E+00	2.34E-01
				K-40	<6.58E-01	0.00E+00	6.58E-01
Sample ID:	596797	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.54E-02	0.00E+00	1.54E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.67E-01	0.00E+00	1.67E-01
				K-40	7.70E-01	2.96E-01	2.36E-01
Sample ID:	597290	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<2.44E-02	0.00E+00	2.44E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	3.91E-01	1.98E-01	6.61E-02
Sample ID:	597881	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.58E-02	0.00E+00	2.58E-02
				Cs-134	<1.99E-02	0.00E+00	1.99E-02
				Cs-137	<1.48E-02	0.00E+00	1.48E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	4.95E-01	2.64E-01	3.01E-01
Sample ID:	598224	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.73E-02	0.00E+00	2.73E-02
				Cs-134	<2.85E-02	0.00E+00	2.85E-02
				Cs-137	<2.45E-02	0.00E+00	2.45E-02
				Be-7	<2.22E-01	0.00E+00	2.22E-01
				K-40	4.74E-01	2.59E-01	2.54E-01
Sample ID:	598878	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<3.03E-02	0.00E+00	3.03E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	7.79E-01	3.13E-01	2.63E-01
Sample ID:	599076	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.60E-02	0.00E+00	3.60E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<3.07E-02	0.00E+00	3.07E-02
				Be-7	<1.70E-01	0.00E+00	1.70E-01
				K-40	5.73E-01	3.16E-01	3.76E-01
Sample ID:	599472	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<2.81E-02	0.00E+00	2.81E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	<7.05E-01	0.00E+00	7.05E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	600319	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.26E-02	0.00E+00	2.26E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	<4.44E-01	0.00E+00	4.44E-01
Sample ID:	601135	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.93E-02	0.00E+00	2.93E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<1.73E-02	0.00E+00	1.73E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	6.05E-01	2.49E-01	2.08E-01
Sample ID:	601296	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.25E-02	0.00E+00	3.25E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	7.53E-01	2.98E-01	2.37E-01
Sample ID:	601791	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<2.61E-02	0.00E+00	2.61E-02
				Cs-137	<2.40E-02	0.00E+00	2.40E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	6.11E-01	2.66E-01	2.26E-01
Sample ID:	602272	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.69E-02	0.00E+00	3.69E-02
				Cs-134	<2.04E-02	0.00E+00	2.04E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<2.40E-01	0.00E+00	2.40E-01
				K-40	3.07E-01	2.75E-01	4.14E-01
Sample ID:	602519	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.67E-02	0.00E+00	5.67E-02
				Cs-134	<2.88E-02	0.00E+00	2.88E-02
				Cs-137	<2.45E-02	0.00E+00	2.45E-02
				Be-7	<2.48E-01	0.00E+00	2.48E-01
				K-40	7.78E-01	2.86E-01	6.80E-02
Sample ID:	602725	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.19E-02	0.00E+00	4.19E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<3.36E-02	0.00E+00	3.36E-02
				Be-7	<2.07E-01	0.00E+00	2.07E-01
				K-40	7.05E-01	4.28E-01	5.78E-01

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	582670	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.91E-02	0.00E+00	2.91E-02
				Cs-134	<3.20E-02	0.00E+00	3.20E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	3.60E-01	2.02E-01	7.50E-02
Sample ID:	582974	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<2.70E-02	0.00E+00	2.70E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	<4.54E-01	0.00E+00	4.54E-01
Sample ID:	583157	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.13E-02	0.00E+00	3.13E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	583157	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.08E-02	0.00E+00	2.08E-02
				Cs-137	<2.73E-02	0.00E+00	2.73E-02
				Be-7	<2.01E-01	0.00E+00	2.01E-01
				K-40	5.31E-01	2.80E-01	2.82E-01
Sample ID:	583509	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.00E-02	0.00E+00	3.00E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<1.19E-02	0.00E+00	1.19E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	3.47E-01	2.45E-01	3.30E-01
Sample ID:	584238	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<2.48E-02	0.00E+00	2.48E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	5.62E-01	2.39E-01	6.63E-02
Sample ID:	584942	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.53E-02	0.00E+00	2.53E-02
				Cs-134	<2.24E-02	0.00E+00	2.24E-02
				Cs-137	<2.92E-02	0.00E+00	2.92E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	<5.07E-01	0.00E+00	5.07E-01
Sample ID:	585369	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.67E-02	0.00E+00	2.67E-02
				Cs-134	<2.23E-02	0.00E+00	2.23E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	<5.19E-01	0.00E+00	5.19E-01
Sample ID:	585576	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<1.99E-02	0.00E+00	1.99E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	5.55E-01	2.93E-01	3.52E-01
Sample ID:	585830	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<2.46E-02	0.00E+00	2.46E-02
				Cs-137	<2.12E-02	0.00E+00	2.12E-02
				Be-7	<1.68E-01	0.00E+00	1.68E-01
				K-40	4.38E-01	2.34E-01	2.42E-01
Sample ID:	586089	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.81E-02	0.00E+00	2.81E-02
				Cs-134	<3.41E-02	0.00E+00	3.41E-02
				Cs-137	<2.00E-02	0.00E+00	2.00E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	4.45E-01	2.25E-01	7.53E-02
Sample ID:	586680	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.93E-02	0.00E+00	2.93E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<2.51E-01	0.00E+00	2.51E-01
				K-40	5.26E-01	3.33E-01	4.64E-01
Sample ID:	586948	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.45E-02	0.00E+00	2.45E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<2.83E-02	0.00E+00	2.83E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	586948	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	7.12E-01	2.94E-01	2.59E-01
Sample ID:	587208	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.50E-02	0.00E+00	1.50E-02
				Cs-137	<1.29E-02	0.00E+00	1.29E-02
				Be-7	<9.39E-02	0.00E+00	9.39E-02
				K-40	7.49E-01	2.16E-01	1.65E-01
Sample ID:	587451	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.09E-02	0.00E+00	4.09E-02
				Cs-134	<2.18E-02	0.00E+00	2.18E-02
				Cs-137	<2.89E-02	0.00E+00	2.89E-02
				Be-7	<2.05E-01	0.00E+00	2.05E-01
				K-40	<5.88E-01	0.00E+00	5.88E-01
Sample ID:	587785	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.74E-02	0.00E+00	2.74E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.91E-01	0.00E+00	1.91E-01
				K-40	5.02E-01	2.52E-01	2.47E-01
Sample ID:	588319	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.80E-02	0.00E+00	2.80E-02
				Cs-134	<2.54E-02	0.00E+00	2.54E-02
				Cs-137	<1.86E-02	0.00E+00	1.86E-02
				Be-7	<9.51E-02	0.00E+00	9.51E-02
				K-40	<4.57E-01	0.00E+00	4.57E-01
Sample ID:	588606	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.10E-02	0.00E+00	3.10E-02
				Cs-134	<1.86E-02	0.00E+00	1.86E-02
				Cs-137	<2.73E-02	0.00E+00	2.73E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	<4.47E-01	0.00E+00	4.47E-01
Sample ID:	589560	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.07E-02	0.00E+00	2.07E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	5.64E-01	2.66E-01	2.60E-01
Sample ID:	589813	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.78E-02	0.00E+00	2.78E-02
				Cs-134	<2.05E-02	0.00E+00	2.05E-02
				Cs-137	<2.98E-02	0.00E+00	2.98E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID:	590032	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.41E-02	0.00E+00	2.41E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<2.55E-02	0.00E+00	2.55E-02
				Be-7	<9.85E-02	0.00E+00	9.85E-02
				K-40	4.44E-01	2.92E-01	3.99E-01
Sample ID:	590367	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.84E-02	0.00E+00	2.84E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	6.65E-01	2.66E-01	6.94E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID: 590502	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	3.49E-01	2.65E-01	3.77E-01
Sample ID: 590657	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	<7.82E-01	0.00E+00	7.82E-01
Sample ID: 591215	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.57E-01	2.49E-01	2.07E-01
Sample ID: 591451	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	3.15E-01	2.17E-01	2.64E-01
Sample ID: 591637	Sample Dates: 6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.01E-02	0.00E+00	4.01E-02
		Cs-134	<3.18E-02	0.00E+00	3.18E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	4.09E-01	3.55E-01	5.34E-01
Sample ID: 591834	Sample Dates: 7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.76E-01	2.53E-01	2.34E-01
Sample ID: 592202	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	5.52E-01	2.49E-01	2.13E-01
Sample ID: 592421	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<5.79E-01	0.00E+00	5.79E-01
Sample ID: 593018	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	2.92E-01	2.35E-01	3.36E-01
Sample ID: 593188	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	593188	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	<1.37E-01	0.00E+00	1.37E-01
			K-40	<5.72E-01	0.00E+00	5.72E-01
Sample ID:	593570	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.47E-02	0.00E+00	2.47E-02
			Cs-134	<2.93E-02	0.00E+00	2.93E-02
			Cs-137	<1.92E-02	0.00E+00	1.92E-02
			Be-7	<1.51E-01	0.00E+00	1.51E-01
			K-40	6.29E-01	2.52E-01	6.56E-02
Sample ID:	593822	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.24E-02	0.00E+00	2.24E-02
			Cs-134	<2.19E-02	0.00E+00	2.19E-02
			Cs-137	<1.69E-02	0.00E+00	1.69E-02
			Be-7	<1.25E-01	0.00E+00	1.25E-01
			K-40	5.28E-01	2.74E-01	3.15E-01
Sample ID:	594296	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.55E-02	0.00E+00	2.55E-02
			Cs-134	<2.17E-02	0.00E+00	2.17E-02
			Cs-137	<1.68E-02	0.00E+00	1.68E-02
			Be-7	<1.11E-01	0.00E+00	1.11E-01
			K-40	3.38E-01	2.42E-01	3.29E-01
Sample ID:	594809	Sample Dates: 8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.79E-02	0.00E+00	2.79E-02
			Cs-134	<2.61E-02	0.00E+00	2.61E-02
			Cs-137	<2.00E-02	0.00E+00	2.00E-02
			Be-7	<1.33E-01	0.00E+00	1.33E-01
			K-40	3.70E-01	2.26E-01	2.86E-01
Sample ID:	595003	Sample Dates: 9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.47E-02	0.00E+00	2.47E-02
			Cs-134	<2.00E-02	0.00E+00	2.00E-02
			Cs-137	<2.80E-02	0.00E+00	2.80E-02
			Be-7	<1.48E-01	0.00E+00	1.48E-01
			K-40	9.71E-01	3.87E-01	3.80E-01
Sample ID:	595647	Sample Dates: 9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<3.51E-02	0.00E+00	3.51E-02
			Cs-134	<2.70E-02	0.00E+00	2.70E-02
			Cs-137	<2.33E-02	0.00E+00	2.33E-02
			Be-7	<1.42E-01	0.00E+00	1.42E-01
			K-40	<6.95E-01	0.00E+00	6.95E-01
Sample ID:	596407	Sample Dates: 9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.39E-02	0.00E+00	2.39E-02
			Cs-134	<2.03E-02	0.00E+00	2.03E-02
			Cs-137	<1.36E-02	0.00E+00	1.36E-02
			Be-7	<1.62E-01	0.00E+00	1.62E-01
			K-40	6.56E-01	2.45E-01	5.93E-02
Sample ID:	596798	Sample Dates: 9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.13E-02	0.00E+00	2.13E-02
			Cs-134	<2.40E-02	0.00E+00	2.40E-02
			Cs-137	<2.43E-02	0.00E+00	2.43E-02
			Be-7	<1.58E-01	0.00E+00	1.58E-01
			K-40	<6.65E-01	0.00E+00	6.65E-01
Sample ID:	597291	Sample Dates: 10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.86E-02	0.00E+00	1.86E-02
			Cs-134	<2.56E-02	0.00E+00	2.56E-02
			Cs-137	<1.88E-02	0.00E+00	1.88E-02
			Be-7	<1.72E-01	0.00E+00	1.72E-01
			K-40	4.01E-01	2.69E-01	3.66E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID: 597882	Sample Dates: 10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<3.51E-02	0.00E+00	3.51E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<4.99E-01	0.00E+00	4.99E-01
Sample ID: 598225	Sample Dates: 10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<2.76E-02	0.00E+00	2.76E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	2.64E-01	1.77E-01	1.87E-01
Sample ID: 598879	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	3.78E-01	2.78E-01	3.90E-01
Sample ID: 599077	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	5.44E-01	2.61E-01	2.64E-01
Sample ID: 599473	Sample Dates: 11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.53E-01	0.00E+00	2.53E-01
		K-40	6.25E-01	2.91E-01	2.47E-01
Sample ID: 600320	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<5.02E-01	0.00E+00	5.02E-01
Sample ID: 601136	Sample Dates: 11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID: 601297	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	5.48E-01	2.86E-01	3.38E-01
Sample ID: 601792	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.29E-01	2.31E-01	2.43E-01
Sample ID: 602273	Sample Dates: 12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	602273	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	<6.07E-01	0.00E+00	6.07E-01
Sample ID:	602520	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<6.25E-02	0.00E+00	6.25E-02
				Cs-134	<2.22E-02	0.00E+00	2.22E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<2.33E-01	0.00E+00	2.33E-01
				K-40	5.20E-01	3.02E-01	3.91E-01
Sample ID:	602726	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.77E-02	0.00E+00	3.77E-02
				Cs-134	<3.71E-02	0.00E+00	3.71E-02
				Cs-137	<2.77E-02	0.00E+00	2.77E-02
				Be-7	<2.93E-01	0.00E+00	2.93E-01
				K-40	<7.48E-01	0.00E+00	7.48E-01

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	582671	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.75E-02	0.00E+00	2.75E-02
				Cs-134	<2.86E-02	0.00E+00	2.86E-02
				Cs-137	<3.29E-02	0.00E+00	3.29E-02
				Be-7	<1.76E-01	0.00E+00	1.76E-01
				K-40	4.95E-01	3.04E-01	3.83E-01
Sample ID:	582975	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.15E-02	0.00E+00	2.15E-02
				Cs-134	<2.23E-02	0.00E+00	2.23E-02
				Cs-137	<2.05E-02	0.00E+00	2.05E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	3.50E-01	1.72E-01	5.58E-02
Sample ID:	583158	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.89E-02	0.00E+00	2.89E-02
				Cs-134	<2.99E-02	0.00E+00	2.99E-02
				Cs-137	<3.19E-02	0.00E+00	3.19E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	5.23E-01	2.43E-01	7.46E-02
Sample ID:	583510	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.97E-02	0.00E+00	1.97E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<9.52E-02	0.00E+00	9.52E-02
				K-40	5.13E-01	2.22E-01	6.32E-02
Sample ID:	584239	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<1.88E-02	0.00E+00	1.88E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01
				K-40	4.00E-01	1.97E-01	6.38E-02
Sample ID:	584943	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.24E-02	0.00E+00	2.24E-02
				Cs-134	<1.97E-02	0.00E+00	1.97E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	5.43E-01	2.61E-01	2.65E-01
Sample ID:	585370	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.38E-02	0.00E+00	2.38E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<2.21E-02	0.00E+00	2.21E-02
				Be-7	<9.64E-02	0.00E+00	9.64E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	585370	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	3.25E-01	2.52E-01	3.60E-01
Sample ID:	585577	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.51E-02	0.00E+00	2.51E-02
				Cs-134	<1.33E-02	0.00E+00	1.33E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	5.31E-01	2.43E-01	2.05E-01
Sample ID:	585831	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.38E-02	0.00E+00	2.38E-02
				Cs-134	<1.86E-02	0.00E+00	1.86E-02
				Cs-137	<2.43E-02	0.00E+00	2.43E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	<4.65E-01	0.00E+00	4.65E-01
Sample ID:	586090	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.72E-02	0.00E+00	2.72E-02
				Cs-134	<2.49E-02	0.00E+00	2.49E-02
				Cs-137	<2.98E-02	0.00E+00	2.98E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01
				K-40	<5.24E-01	0.00E+00	5.24E-01
Sample ID:	586681	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.20E-02	0.00E+00	3.20E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<2.58E-02	0.00E+00	2.58E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	5.10E-01	2.98E-01	3.89E-01
Sample ID:	586949	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.08E-02	0.00E+00	3.08E-02
				Cs-134	<1.97E-02	0.00E+00	1.97E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<1.39E-01	0.00E+00	1.39E-01
				K-40	4.60E-01	2.40E-01	2.46E-01
Sample ID:	587209	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.33E-02	0.00E+00	2.33E-02
				Cs-134	<2.47E-02	0.00E+00	2.47E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.00E-01	0.00E+00	1.00E-01
				K-40	5.06E-01	2.41E-01	2.05E-01
Sample ID:	587452	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<2.19E-02	0.00E+00	2.19E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	7.34E-01	2.70E-01	6.42E-02
Sample ID:	587786	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.44E-02	0.00E+00	3.44E-02
				Cs-134	<2.64E-02	0.00E+00	2.64E-02
				Cs-137	<2.43E-02	0.00E+00	2.43E-02
				Be-7	<2.54E-01	0.00E+00	2.54E-01
				K-40	<6.13E-01	0.00E+00	6.13E-01
Sample ID:	588320	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.75E-02	0.00E+00	2.75E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.21E-02	0.00E+00	1.21E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	3.16E-01	1.98E-01	2.07E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	588607	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.42E-02	0.00E+00	2.42E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<1.98E-02	0.00E+00	1.98E-02
				Be-7	<2.07E-01	0.00E+00	2.07E-01
				K-40	6.59E-01	3.00E-01	3.10E-01
Sample ID:	589561	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.75E-02	0.00E+00	2.75E-02
				Cs-134	<2.43E-02	0.00E+00	2.43E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	3.56E-01	2.08E-01	2.12E-01
Sample ID:	589814	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<2.20E-02	0.00E+00	2.20E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	4.38E-01	2.71E-01	3.53E-01
Sample ID:	590033	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<2.39E-02	0.00E+00	2.39E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	4.84E-01	2.72E-01	3.32E-01
Sample ID:	590368	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.54E-02	0.00E+00	2.54E-02
				Cs-134	<2.06E-02	0.00E+00	2.06E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.83E-01	0.00E+00	1.83E-01
				K-40	<7.08E-01	0.00E+00	7.08E-01
Sample ID:	590503	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<2.55E-02	0.00E+00	2.55E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<1.19E-01	0.00E+00	1.19E-01
				K-40	3.53E-01	1.91E-01	6.84E-02
Sample ID:	590658	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.13E-02	0.00E+00	3.13E-02
				Cs-134	<2.83E-02	0.00E+00	2.83E-02
				Cs-137	<2.58E-02	0.00E+00	2.58E-02
				Be-7	<2.12E-01	0.00E+00	2.12E-01
				K-40	8.76E-01	3.13E-01	7.19E-02
Sample ID:	591216	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<2.43E-02	0.00E+00	2.43E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01
				K-40	5.23E-01	2.49E-01	2.25E-01
Sample ID:	591452	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.14E-02	0.00E+00	3.14E-02
				Cs-134	<2.07E-02	0.00E+00	2.07E-02
				Cs-137	<1.79E-02	0.00E+00	1.79E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	9.45E-01	3.16E-01	6.74E-02
Sample ID:	591638	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.00E-02	0.00E+00	3.00E-02
				Cs-134	<2.77E-02	0.00E+00	2.77E-02
				Cs-137	<2.57E-02	0.00E+00	2.57E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	591638	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	5.47E-01	3.27E-01	4.25E-01
Sample ID:	591835	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.60E-02	0.00E+00	1.60E-02
				Cs-134	<2.32E-02	0.00E+00	2.32E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	4.09E-01	2.23E-01	2.51E-01
Sample ID:	592203	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	7.01E-01	3.14E-01	3.31E-01
Sample ID:	592422	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<2.43E-02	0.00E+00	2.43E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	4.11E-01	2.72E-01	3.65E-01
Sample ID:	593019	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<2.49E-02	0.00E+00	2.49E-02
				Cs-137	<2.31E-02	0.00E+00	2.31E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	<5.40E-01	0.00E+00	5.40E-01
Sample ID:	593189	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.58E-02	0.00E+00	2.58E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<1.50E-02	0.00E+00	1.50E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	6.04E-01	2.96E-01	3.33E-01
Sample ID:	593571	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	6.13E-01	2.67E-01	2.42E-01
Sample ID:	593823	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<1.15E-02	0.00E+00	1.15E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	4.41E-01	2.23E-01	2.02E-01
Sample ID:	594297	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.63E-02	0.00E+00	2.63E-02
				Cs-134	<5.00E-03	0.00E+00	5.00E-03
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<2.00E-01	0.00E+00	2.00E-01
				K-40	6.38E-01	2.98E-01	3.23E-01
Sample ID:	594810	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.92E-02	0.00E+00	2.92E-02
				Cs-134	<1.63E-02	0.00E+00	1.63E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.67E-01	0.00E+00	1.67E-01
				K-40	4.61E-01	2.50E-01	2.92E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	595004	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.75E-02	0.00E+00	2.75E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<1.68E-02	0.00E+00	1.68E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	5.86E-01	2.81E-01	2.60E-01
Sample ID:	595648	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.95E-02	0.00E+00	2.95E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<2.19E-02	0.00E+00	2.19E-02
				Be-7	<2.12E-01	0.00E+00	2.12E-01
				K-40	<5.20E-01	0.00E+00	5.20E-01
Sample ID:	596408	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.40E-02	0.00E+00	2.40E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	<4.50E-01	0.00E+00	4.50E-01
Sample ID:	596799	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.75E-02	0.00E+00	2.75E-02
				Be-7	<2.18E-01	0.00E+00	2.18E-01
				K-40	7.90E-01	2.86E-01	6.69E-02
Sample ID:	597292	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	<3.95E-01	0.00E+00	3.95E-01
Sample ID:	597883	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.18E-02	0.00E+00	3.18E-02
				Cs-134	<2.60E-02	0.00E+00	2.60E-02
				Cs-137	<2.65E-02	0.00E+00	2.65E-02
				Be-7	<2.87E-02	0.00E+00	2.87E-02
				K-40	4.90E-01	3.05E-01	4.11E-01
Sample ID:	598226	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.34E-02	0.00E+00	2.34E-02
				Cs-134	<2.69E-02	0.00E+00	2.69E-02
				Cs-137	<1.66E-02	0.00E+00	1.66E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	<4.98E-01	0.00E+00	4.98E-01
Sample ID:	598880	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.08E-02	0.00E+00	3.08E-02
				Cs-134	<2.68E-02	0.00E+00	2.68E-02
				Cs-137	<2.87E-02	0.00E+00	2.87E-02
				Be-7	<2.94E-01	0.00E+00	2.94E-01
				K-40	4.67E-01	2.79E-01	3.22E-01
Sample ID:	599078	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.47E-02	0.00E+00	2.47E-02
				Cs-134	<1.92E-02	0.00E+00	1.92E-02
				Cs-137	<1.85E-02	0.00E+00	1.85E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	6.71E-01	2.55E-01	6.27E-02
Sample ID:	599474	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.83E-02	0.00E+00	3.83E-02
				Cs-134	<3.31E-02	0.00E+00	3.31E-02
				Cs-137	<4.21E-02	0.00E+00	4.21E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID: 599474	Sample Dates: 11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.99E-01	0.00E+00	2.99E-01
		K-40	<7.78E-01	0.00E+00	7.78E-01
Sample ID: 600321	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.32E-01	2.54E-01	3.12E-01
Sample ID: 601137	Sample Dates: 11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
		K-40	7.37E-01	2.80E-01	6.89E-02
Sample ID: 601298	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	4.80E-01	2.55E-01	2.91E-01
Sample ID: 601793	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	<6.46E-01	0.00E+00	6.46E-01
Sample ID: 602274	Sample Dates: 12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.19E-02	0.00E+00	4.19E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	8.29E-01	3.26E-01	3.00E-01
Sample ID: 602521	Sample Dates: 12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.07E-02	0.00E+00	5.07E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	5.28E-01	2.80E-01	3.19E-01
Sample ID: 602727	Sample Dates: 12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.27E-02	0.00E+00	5.27E-02
		Cs-134	<3.48E-02	0.00E+00	3.48E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	<7.63E-01	0.00E+00	7.63E-01

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID: 582672	Sample Dates: 1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<3.69E-02	0.00E+00	3.69E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	4.33E-01	2.58E-01	2.94E-01
Sample ID: 582976	Sample Dates: 1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	582976	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	3.81E-01	2.03E-01	1.98E-01
Sample ID:	583159	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.75E-02	0.00E+00	2.75E-02
				Cs-134	<3.44E-02	0.00E+00	3.44E-02
				Cs-137	<2.65E-02	0.00E+00	2.65E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	7.68E-01	3.02E-01	7.70E-02
Sample ID:	583511	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.71E-02	0.00E+00	2.71E-02
				Cs-134	<2.40E-02	0.00E+00	2.40E-02
				Cs-137	<2.24E-02	0.00E+00	2.24E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	6.20E-01	2.81E-01	2.78E-01
Sample ID:	584240	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.86E-02	0.00E+00	2.86E-02
				Cs-134	<3.10E-02	0.00E+00	3.10E-02
				Cs-137	<2.27E-02	0.00E+00	2.27E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	5.23E-01	2.51E-01	2.34E-01
Sample ID:	584944	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.65E-02	0.00E+00	2.65E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<2.03E-01	0.00E+00	2.03E-01
				K-40	3.76E-01	2.19E-01	2.35E-01
Sample ID:	585371	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.59E-02	0.00E+00	2.59E-02
				Cs-134	<2.67E-02	0.00E+00	2.67E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.96E-01	0.00E+00	1.96E-01
				K-40	<4.93E-01	0.00E+00	4.93E-01
Sample ID:	585578	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.93E-02	0.00E+00	2.93E-02
				Cs-134	<2.25E-02	0.00E+00	2.25E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	2.65E-01	2.28E-01	3.30E-01
Sample ID:	585832	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.85E-02	0.00E+00	2.85E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<3.01E-02	0.00E+00	3.01E-02
				Be-7	<1.68E-01	0.00E+00	1.68E-01
				K-40	4.93E-01	2.56E-01	2.47E-01
Sample ID:	586091	Sample Dates:	3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.76E-02	0.00E+00	2.76E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	<7.04E-01	0.00E+00	7.04E-01
Sample ID:	586682	Sample Dates:	3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.22E-02	0.00E+00	3.22E-02
				Cs-134	<2.56E-02	0.00E+00	2.56E-02
				Cs-137	<2.46E-02	0.00E+00	2.46E-02
				Be-7	<2.35E-01	0.00E+00	2.35E-01
				K-40	5.11E-01	2.75E-01	3.26E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	586950	Sample Dates:	3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.95E-02	0.00E+00	1.95E-02
				Cs-134	<2.15E-02	0.00E+00	2.15E-02
				Cs-137	<1.43E-02	0.00E+00	1.43E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	3.08E-01	2.12E-01	2.70E-01
Sample ID:	587210	Sample Dates:	3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.96E-02	0.00E+00	2.96E-02
				Cs-134	<2.18E-02	0.00E+00	2.18E-02
				Cs-137	<2.89E-02	0.00E+00	2.89E-02
				Be-7	<2.04E-01	0.00E+00	2.04E-01
				K-40	<6.44E-01	0.00E+00	6.44E-01
Sample ID:	587453	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.38E-02	0.00E+00	1.38E-02
				Cs-134	<2.07E-02	0.00E+00	2.07E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.90E-01	0.00E+00	1.90E-01
				K-40	2.03E-01	2.43E-01	3.91E-01
Sample ID:	587787	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.63E-02	0.00E+00	2.63E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<2.30E-02	0.00E+00	2.30E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	<4.92E-01	0.00E+00	4.92E-01
Sample ID:	588321	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.86E-02	0.00E+00	2.86E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<2.27E-02	0.00E+00	2.27E-02
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	<4.67E-01	0.00E+00	4.67E-01
Sample ID:	588608	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.09E-02	0.00E+00	4.09E-02
				Cs-134	<2.85E-02	0.00E+00	2.85E-02
				Cs-137	<2.88E-02	0.00E+00	2.88E-02
				Be-7	<2.14E-01	0.00E+00	2.14E-01
				K-40	<5.85E-01	0.00E+00	5.85E-01
Sample ID:	589562	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.94E-02	0.00E+00	1.94E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	6.80E-01	2.58E-01	6.36E-02
Sample ID:	589815	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<2.64E-02	0.00E+00	2.64E-02
				Cs-137	<1.19E-02	0.00E+00	1.19E-02
				Be-7	<1.89E-01	0.00E+00	1.89E-01
				K-40	7.80E-01	2.95E-01	1.99E-01
Sample ID:	590034	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	6.07E-01	2.63E-01	2.34E-01
Sample ID:	590369	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.01E-02	0.00E+00	4.01E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<3.11E-02	0.00E+00	3.11E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	590369	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<2.20E-01	0.00E+00	2.20E-01
				K-40	6.90E-01	2.76E-01	7.19E-02
Sample ID:	590504	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.43E-02	0.00E+00	2.43E-02
				Cs-134	<2.06E-02	0.00E+00	2.06E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	<6.14E-01	0.00E+00	6.14E-01
Sample ID:	590659	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.98E-02	0.00E+00	2.98E-02
				Cs-134	<3.03E-02	0.00E+00	3.03E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	1.18E+00	3.77E-01	2.77E-01
Sample ID:	591217	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<2.86E-02	0.00E+00	2.86E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.23E-01	0.00E+00	1.23E-01
				K-40	4.33E-01	2.60E-01	3.29E-01
Sample ID:	591453	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.68E-02	0.00E+00	2.68E-02
				Cs-134	<1.96E-02	0.00E+00	1.96E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	3.55E-01	2.26E-01	2.78E-01
Sample ID:	591639	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.78E-02	0.00E+00	2.78E-02
				Cs-134	<3.05E-02	0.00E+00	3.05E-02
				Cs-137	<1.63E-02	0.00E+00	1.63E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	4.27E-01	2.59E-01	3.10E-01
Sample ID:	591836	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	7.86E-01	2.93E-01	2.48E-01
Sample ID:	592204	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.26E-02	0.00E+00	2.26E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<1.50E-02	0.00E+00	1.50E-02
				Be-7	<1.76E-01	0.00E+00	1.76E-01
				K-40	4.63E-01	2.64E-01	3.19E-01
Sample ID:	592423	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.54E-02	0.00E+00	2.54E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-02
				Cs-137	<1.68E-02	0.00E+00	1.68E-02
				Be-7	<1.72E-01	0.00E+00	1.72E-01
				K-40	<5.42E-01	0.00E+00	5.42E-01
Sample ID:	593020	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.88E-02	0.00E+00	2.88E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<1.19E-02	0.00E+00	1.19E-02
				Be-7	<1.86E-01	0.00E+00	1.86E-01
				K-40	5.26E-01	2.28E-01	6.48E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	593190	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.00E-02	0.00E+00	2.00E-02
				Cs-134	<2.19E-02	0.00E+00	2.19E-02
				Cs-137	<2.06E-02	0.00E+00	2.06E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	9.43E-01	3.33E-01	2.70E-01
Sample ID:	593572	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.25E-02	0.00E+00	3.25E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	5.35E-01	2.80E-01	3.19E-01
Sample ID:	593824	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.07E-02	0.00E+00	2.07E-02
				Cs-134	<3.48E-02	0.00E+00	3.48E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	5.47E-01	2.69E-01	2.76E-01
Sample ID:	594298	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.09E-02	0.00E+00	2.09E-02
				Cs-134	<2.70E-02	0.00E+00	2.70E-02
				Cs-137	<2.19E-02	0.00E+00	2.19E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	5.58E-01	2.46E-01	1.92E-01
Sample ID:	594811	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.09E-02	0.00E+00	2.09E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	6.95E-01	2.52E-01	5.88E-02
Sample ID:	595005	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.23E-02	0.00E+00	3.23E-02
				Cs-134	<3.13E-02	0.00E+00	3.13E-02
				Cs-137	<2.70E-02	0.00E+00	2.70E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	<6.15E-01	0.00E+00	6.15E-01
Sample ID:	595649	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.59E-02	0.00E+00	2.59E-02
				Cs-134	<3.42E-02	0.00E+00	3.42E-02
				Cs-137	<2.49E-02	0.00E+00	2.49E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	5.24E-01	2.72E-01	2.83E-01
Sample ID:	596409	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.55E-02	0.00E+00	1.55E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	5.36E-01	2.56E-01	2.73E-01
Sample ID:	596800	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.81E-02	0.00E+00	3.81E-02
				Cs-134	<2.36E-02	0.00E+00	2.36E-02
				Cs-137	<3.28E-02	0.00E+00	3.28E-02
				Be-7	<2.81E-01	0.00E+00	2.81E-01
				K-40	6.42E-01	3.64E-01	4.67E-01
Sample ID:	597293	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<5.07E-03	0.00E+00	5.07E-03
				Cs-137	<2.12E-02	0.00E+00	2.12E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	597293	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	<5.26E-01	0.00E+00	5.26E-01
Sample ID:	597884	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.74E-02	0.00E+00	2.74E-02
				Cs-134	<1.33E-02	0.00E+00	1.33E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	4.29E-01	2.81E-01	3.82E-01
Sample ID:	598227	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.70E-02	0.00E+00	2.70E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<2.29E-02	0.00E+00	2.29E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	<4.62E-01	0.00E+00	4.62E-01
Sample ID:	598881	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.54E-02	0.00E+00	2.54E-02
				Cs-134	<2.75E-02	0.00E+00	2.75E-02
				Cs-137	<2.20E-02	0.00E+00	2.20E-02
				Be-7	<1.20E-01	0.00E+00	1.20E-01
				K-40	5.89E-01	2.69E-01	2.40E-01
Sample ID:	599079	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.68E-02	0.00E+00	2.68E-02
				Cs-134	<2.20E-02	0.00E+00	2.20E-02
				Cs-137	<2.51E-02	0.00E+00	2.51E-02
				Be-7	<1.39E-01	0.00E+00	1.39E-01
				K-40	4.75E-01	2.81E-01	3.59E-01
Sample ID:	599475	Sample Dates:	11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<2.59E-02	0.00E+00	2.59E-02
				Cs-137	<2.44E-02	0.00E+00	2.44E-02
				Be-7	<2.14E-01	0.00E+00	2.14E-01
				K-40	7.25E-01	3.49E-01	3.94E-01
Sample ID:	600322	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.90E-02	0.00E+00	2.90E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<2.44E-02	0.00E+00	2.44E-02
				Be-7	<1.52E-01	0.00E+00	1.52E-01
				K-40	5.88E-01	2.45E-01	6.64E-02
Sample ID:	601138	Sample Dates:	11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<2.60E-02	0.00E+00	2.60E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	<5.27E-01	0.00E+00	5.27E-01
Sample ID:	601299	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	4.72E-01	2.87E-01	3.78E-01
Sample ID:	601794	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.79E-02	0.00E+00	2.79E-02
				Cs-134	<2.60E-02	0.00E+00	2.60E-02
				Cs-137	<2.08E-02	0.00E+00	2.08E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	<6.56E-01	0.00E+00	6.56E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	602275	Sample Dates:	12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.84E-02	0.00E+00	3.84E-02
				Cs-134	<3.48E-02	0.00E+00	3.48E-02
				Cs-137	<1.47E-02	0.00E+00	1.47E-02
				Be-7	<1.96E-01	0.00E+00	1.96E-01
				K-40	6.56E-01	2.58E-01	6.58E-02
Sample ID:	602522	Sample Dates:	12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.73E-02	0.00E+00	5.73E-02
				Cs-134	<1.83E-02	0.00E+00	1.83E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<2.19E-01	0.00E+00	2.19E-01
				K-40	<7.05E-01	0.00E+00	7.05E-01
Sample ID:	602728	Sample Dates:	12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.54E-02	0.00E+00	4.54E-02
				Cs-134	<2.30E-02	0.00E+00	2.30E-02
				Cs-137	<3.69E-02	0.00E+00	3.69E-02
				Be-7	<3.02E-01	0.00E+00	3.02E-01
				K-40	<9.47E-01	0.00E+00	9.47E-01

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	582673	Sample Dates:	1/4/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.35E-02	0.00E+00	3.35E-02
				Cs-134	<6.09E-03	0.00E+00	6.09E-03
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	5.15E-01	2.72E-01	2.61E-01
Sample ID:	582977	Sample Dates:	1/10/2023 - 1/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.09E-02	0.00E+00	2.09E-02
				Cs-134	<2.32E-02	0.00E+00	2.32E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	<4.84E-01	0.00E+00	4.84E-01
Sample ID:	583160	Sample Dates:	1/18/2023 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.16E-02	0.00E+00	3.16E-02
				Cs-134	<3.16E-02	0.00E+00	3.16E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.68E-01	0.00E+00	1.68E-01
				K-40	7.67E-01	2.96E-01	7.42E-02
Sample ID:	583512	Sample Dates:	1/24/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.41E-02	0.00E+00	2.41E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<1.86E-02	0.00E+00	1.86E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	5.23E-01	2.45E-01	2.23E-01
Sample ID:	584241	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<2.55E-02	0.00E+00	2.55E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	3.76E-01	1.91E-01	6.37E-02
Sample ID:	584945	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.61E-02	0.00E+00	2.61E-02
				Cs-134	<3.04E-02	0.00E+00	3.04E-02
				Cs-137	<2.75E-02	0.00E+00	2.75E-02
				Be-7	<1.79E-01	0.00E+00	1.79E-01
				K-40	2.17E-01	2.49E-01	3.95E-01
Sample ID:	585372	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.81E-02	0.00E+00	3.81E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID: 585372	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	5.17E-01	2.95E-01	3.57E-01
Sample ID: 585579	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
Sample ID: 585833	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
Sample ID: 586092	Sample Dates: 3/7/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.82E-02	0.00E+00	2.82E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 586683	Sample Dates: 3/13/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
Sample ID: 586951	Sample Dates: 3/21/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.72E-02	0.00E+00	3.72E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<3.33E-02	0.00E+00	3.33E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
Sample ID: 587211	Sample Dates: 3/28/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
Sample ID: 587454	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 587788	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.08E-02	0.00E+00	4.08E-02
		Cs-134	<3.49E-02	0.00E+00	3.49E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
Sample ID: 588322	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	588322	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	1.51E-01	1.60E-01	2.35E-01
Sample ID:	588609	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.56E-02	0.00E+00	2.56E-02
				Cs-134	<2.99E-02	0.00E+00	2.99E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.90E-01	0.00E+00	1.90E-01
				K-40	<5.34E-01	0.00E+00	5.34E-01
Sample ID:	589563	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.67E-02	0.00E+00	2.67E-02
				Cs-134	<3.04E-02	0.00E+00	3.04E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	3.98E-01	2.02E-01	6.74E-02
Sample ID:	589816	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.90E-02	0.00E+00	2.90E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	4.54E-01	2.79E-01	3.60E-01
Sample ID:	590035	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.30E-02	0.00E+00	2.30E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	4.97E-01	2.78E-01	3.36E-01
Sample ID:	590370	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.08E-02	0.00E+00	2.08E-02
				Cs-134	<2.65E-02	0.00E+00	2.65E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	2.53E-01	1.89E-01	2.35E-01
Sample ID:	590505	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<2.38E-02	0.00E+00	2.38E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	3.87E-01	2.33E-01	2.64E-01
Sample ID:	590660	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.23E-02	0.00E+00	4.23E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.72E-02	0.00E+00	2.72E-02
				Be-7	<2.26E-01	0.00E+00	2.26E-01
				K-40	6.35E-01	2.64E-01	7.17E-02
Sample ID:	591218	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<2.52E-02	0.00E+00	2.52E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	5.47E-01	2.70E-01	2.78E-01
Sample ID:	591454	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.57E-02	0.00E+00	1.57E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.61E-01	0.00E+00	1.61E-01
				K-40	<5.35E-01	0.00E+00	5.35E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	591640	Sample Dates:	6/27/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.25E-02	0.00E+00	2.25E-02
				Cs-134	<2.80E-02	0.00E+00	2.80E-02
				Cs-137	<2.60E-02	0.00E+00	2.60E-02
				Be-7	<1.58E-01	0.00E+00	1.58E-01
				K-40	<5.42E-01	0.00E+00	5.42E-01
Sample ID:	591837	Sample Dates:	7/3/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.56E-02	0.00E+00	2.56E-02
				Cs-134	<2.14E-02	0.00E+00	2.14E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	4.64E-01	2.31E-01	2.42E-01
Sample ID:	592205	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<2.34E-02	0.00E+00	2.34E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	<5.63E-01	0.00E+00	5.63E-01
Sample ID:	592424	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.72E-01	0.00E+00	1.72E-01
				K-40	5.34E-01	2.65E-01	2.72E-01
Sample ID:	593021	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.08E-02	0.00E+00	2.08E-02
				Cs-134	<2.32E-02	0.00E+00	2.32E-02
				Cs-137	<1.55E-02	0.00E+00	1.55E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	<5.16E-01	0.00E+00	5.16E-01
Sample ID:	593191	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.95E-02	0.00E+00	1.95E-02
				Cs-134	<3.35E-02	0.00E+00	3.35E-02
				Cs-137	<2.89E-02	0.00E+00	2.89E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	4.08E-01	2.94E-01	4.15E-01
Sample ID:	593573	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.64E-02	0.00E+00	1.64E-02
				Cs-134	<2.02E-02	0.00E+00	2.02E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.87E-01	0.00E+00	1.87E-01
				K-40	<6.57E-01	0.00E+00	6.57E-01
Sample ID:	593825	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.38E-02	0.00E+00	2.38E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	7.00E-01	2.66E-01	6.54E-02
Sample ID:	594299	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<2.69E-02	0.00E+00	2.69E-02
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	6.19E-01	2.53E-01	6.71E-02
Sample ID:	594812	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.87E-02	0.00E+00	2.87E-02
				Cs-134	<1.99E-02	0.00E+00	1.99E-02
				Cs-137	<1.54E-02	0.00E+00	1.54E-02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID:	594812	Sample Dates:	8/29/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	5.14E-01	2.14E-01	5.80E-02
Sample ID:	595006	Sample Dates:	9/6/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.25E-02	0.00E+00	2.25E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	5.00E-01	3.02E-01	3.82E-01
Sample ID:	595650	Sample Dates:	9/12/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.77E-02	0.00E+00	2.77E-02
				Cs-134	<2.29E-02	0.00E+00	2.29E-02
				Cs-137	<2.76E-02	0.00E+00	2.76E-02
				Be-7	<1.92E-01	0.00E+00	1.92E-01
				K-40	5.56E-01	2.74E-01	2.60E-01
Sample ID:	596410	Sample Dates:	9/18/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.07E-02	0.00E+00	2.07E-02
				Cs-134	<2.28E-02	0.00E+00	2.28E-02
				Cs-137	<1.29E-02	0.00E+00	1.29E-02
				Be-7	<9.95E-02	0.00E+00	9.95E-02
				K-40	4.49E-01	2.34E-01	2.63E-01
Sample ID:	596801	Sample Dates:	9/26/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<2.43E-02	0.00E+00	2.43E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	6.53E-01	3.07E-01	3.42E-01
Sample ID:	597294	Sample Dates:	10/3/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.41E-02	0.00E+00	2.41E-02
				Cs-134	<2.42E-02	0.00E+00	2.42E-02
				Cs-137	<2.08E-02	0.00E+00	2.08E-02
				Be-7	<1.79E-01	0.00E+00	1.79E-01
				K-40	<5.94E-01	0.00E+00	5.94E-01
Sample ID:	597885	Sample Dates:	10/10/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.43E-02	0.00E+00	2.43E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	<4.48E-01	0.00E+00	4.48E-01
Sample ID:	598228	Sample Dates:	10/17/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.63E-02	0.00E+00	2.63E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<1.73E-02	0.00E+00	1.73E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	<5.37E-01	0.00E+00	5.37E-01
Sample ID:	598882	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.20E-02	0.00E+00	3.20E-02
				Cs-134	<3.11E-02	0.00E+00	3.11E-02
				Cs-137	<3.29E-02	0.00E+00	3.29E-02
				Be-7	<2.57E-01	0.00E+00	2.57E-01
				K-40	<5.82E-01	0.00E+00	5.82E-01
Sample ID:	599080	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.37E-02	0.00E+00	1.37E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	3.57E-01	2.48E-01	3.35E-01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 261 [INDICATOR - N @ 0.72 miles]

Sample ID: 599476	Sample Dates: 11/7/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	<7.01E-01	0.00E+00	7.01E-01
Sample ID: 600323	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.15E-01	2.37E-01	2.70E-01
Sample ID: 601139	Sample Dates: 11/20/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	<5.41E-01	0.00E+00	5.41E-01
Sample ID: 601300	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	5.51E-01	2.46E-01	2.01E-01
Sample ID: 601795	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	6.14E-01	2.90E-01	3.03E-01
Sample ID: 602276	Sample Dates: 12/12/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	3.78E-01	2.86E-01	4.10E-01
Sample ID: 602523	Sample Dates: 12/20/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.18E-02	0.00E+00	5.18E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<2.44E-01	0.00E+00	2.44E-01
		K-40	8.35E-01	2.98E-01	6.86E-02
Sample ID: 602729	Sample Dates: 12/28/2023 - 1/3/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.52E-02	0.00E+00	4.52E-02
		Cs-134	<3.49E-02	0.00E+00	3.49E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<2.59E-01	0.00E+00	2.59E-01
		K-40	9.54E-01	3.87E-01	3.23E-01

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 260 [INDICATOR - SSE @ 2 miles]

Sample ID: 590371	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.83E+00	0.00E+00	7.83E+00
			Co-58	<8.69E+00	0.00E+00	8.69E+00
			Fe-59	<1.80E+01	0.00E+00	1.80E+01
			Co-60	<6.19E+00	0.00E+00	6.19E+00
			Zn-65	<1.84E+01	0.00E+00	1.84E+01
			Zr-95	<1.53E+01	0.00E+00	1.53E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 260 [INDICATOR - SSE @ 2 miles]

Sample ID: 590371	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Nb-95	<8.62E+00	0.00E+00	8.62E+00
			I-131	<7.81E+00	0.00E+00	7.81E+00
			Cs-134	<9.55E+00	0.00E+00	9.55E+00
			Cs-137	<7.89E+00	0.00E+00	7.89E+00
			BaLa-140	<7.46E+00	0.00E+00	7.46E+00
			Be-7	<6.12E+01	0.00E+00	6.12E+01
			K-40	3.01E+03	3.52E+02	1.40E+02
Sample ID: 591526	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.85E+01	0.00E+00	2.85E+01
			Co-58	<2.62E+01	0.00E+00	2.62E+01
			Fe-59	<3.70E+01	0.00E+00	3.70E+01
			Co-60	<8.56E+00	0.00E+00	8.56E+00
			Zn-65	<5.13E+01	0.00E+00	5.13E+01
			Zr-95	<4.08E+01	0.00E+00	4.08E+01
			Nb-95	<2.81E+01	0.00E+00	2.81E+01
			I-131	<2.37E+01	0.00E+00	2.37E+01
			Cs-134	<2.63E+01	0.00E+00	2.63E+01
			Cs-137	<3.16E+01	0.00E+00	3.16E+01
			BaLa-140	<4.13E+01	0.00E+00	4.13E+01
			Be-7	<2.08E+02	0.00E+00	2.08E+02
			K-40	3.01E+03	6.64E+02	8.60E+01
Sample ID: 592504	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.71E+01	0.00E+00	1.71E+01
			Co-58	<1.48E+01	0.00E+00	1.48E+01
			Fe-59	<4.06E+01	0.00E+00	4.06E+01
			Co-60	<1.54E+01	0.00E+00	1.54E+01
			Zn-65	<4.33E+01	0.00E+00	4.33E+01
			Zr-95	<1.81E+01	0.00E+00	1.81E+01
			Nb-95	<1.53E+01	0.00E+00	1.53E+01
			I-131	<1.59E+01	0.00E+00	1.59E+01
			Cs-134	<1.92E+01	0.00E+00	1.92E+01
			Cs-137	<1.19E+01	0.00E+00	1.19E+01
			BaLa-140	<2.27E+01	0.00E+00	2.27E+01
			Be-7	<1.13E+02	0.00E+00	1.13E+02
			K-40	2.16E+03	4.53E+02	3.31E+02
Sample ID: 594232	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.40E+01	0.00E+00	1.40E+01
			Co-58	<1.49E+01	0.00E+00	1.49E+01
			Fe-59	<2.62E+01	0.00E+00	2.62E+01
			Co-60	<1.20E+01	0.00E+00	1.20E+01
			Zn-65	<2.94E+01	0.00E+00	2.94E+01
			Zr-95	<2.50E+01	0.00E+00	2.50E+01
			Nb-95	<8.66E+00	0.00E+00	8.66E+00
			I-131	<1.76E+01	0.00E+00	1.76E+01
			Cs-134	<1.03E+01	0.00E+00	1.03E+01
			Cs-137	<1.29E+01	0.00E+00	1.29E+01
			BaLa-140	<2.01E+01	0.00E+00	2.01E+01
			Be-7	<9.57E+01	0.00E+00	9.57E+01
			K-40	2.27E+03	3.88E+02	2.35E+02
Sample ID: 596361	Sample Dates: 10/3/2023 - 10/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.12E+01	0.00E+00	2.12E+01
			Co-58	<1.29E+01	0.00E+00	1.29E+01
			Fe-59	<3.72E+01	0.00E+00	3.72E+01
			Co-60	<2.75E+01	0.00E+00	2.75E+01
			Zn-65	<5.85E+01	0.00E+00	5.85E+01
			Zr-95	<3.65E+01	0.00E+00	3.65E+01
			Nb-95	<1.83E+01	0.00E+00	1.83E+01
			I-131	<1.78E+01	0.00E+00	1.78E+01
			Cs-134	<2.37E+01	0.00E+00	2.37E+01
			Cs-137	<2.05E+01	0.00E+00	2.05E+01
			BaLa-140	<4.09E+01	0.00E+00	4.09E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 260 [INDICATOR - SSE @ 2 miles]

Sample ID:	596361	Sample Dates:	10/3/2023 - 10/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
					Be-7	<1.34E+02	0.00E+00	1.34E+02
					K-40	2.90E+03	5.95E+02	6.95E+01
Sample ID:	598074	Sample Dates:	11/7/2023 - 11/7/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.21E+01	0.00E+00	1.21E+01
					Co-58	<1.21E+01	0.00E+00	1.21E+01
					Fe-59	<2.76E+01	0.00E+00	2.76E+01
					Co-60	<1.26E+01	0.00E+00	1.26E+01
					Zn-65	<2.88E+01	0.00E+00	2.88E+01
					Zr-95	<2.53E+01	0.00E+00	2.53E+01
					Nb-95	<1.42E+01	0.00E+00	1.42E+01
					I-131	<1.41E+01	0.00E+00	1.41E+01
					Cs-134	<1.70E+01	0.00E+00	1.70E+01
					Cs-137	<1.24E+01	0.00E+00	1.24E+01
					BaLa-140	<1.46E+01	0.00E+00	1.46E+01
					Be-7	<9.23E+01	0.00E+00	9.23E+01
					K-40	2.25E+03	3.88E+02	2.03E+02
Sample ID:	600270	Sample Dates:	12/5/2023 - 12/5/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<9.46E+00	0.00E+00	9.46E+00
					Co-58	<1.38E+01	0.00E+00	1.38E+01
					Fe-59	<2.26E+01	0.00E+00	2.26E+01
					Co-60	<1.38E+01	0.00E+00	1.38E+01
					Zn-65	<2.55E+01	0.00E+00	2.55E+01
					Zr-95	<1.87E+01	0.00E+00	1.87E+01
					Nb-95	<1.22E+01	0.00E+00	1.22E+01
					I-131	<1.10E+01	0.00E+00	1.10E+01
					Cs-134	<1.28E+01	0.00E+00	1.28E+01
					Cs-137	<1.16E+01	0.00E+00	1.16E+01
					BaLa-140	<1.18E+01	0.00E+00	1.18E+01
					Be-7	2.65E+02	1.09E+02	1.57E+02
					K-40	3.73E+03	4.71E+02	2.61E+02

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 214 [INDICATOR - SSE @ 7.3 miles]

Sample ID:	583267	Sample Dates:	12/28/2022 - 1/24/2023		Nuclide	Activity	2 Sigma Error	MDA
					Beta	4.03E+00	4.38E+00	3.27E+00
					Mn-54	<4.19E+00	0.00E+00	4.19E+00
					Co-58	<4.15E+00	0.00E+00	4.15E+00
					Fe-59	<8.57E+00	0.00E+00	8.57E+00
					Co-60	<2.60E+00	0.00E+00	2.60E+00
					Zn-65	<6.73E+00	0.00E+00	6.73E+00
					Zr-95	<4.87E+00	0.00E+00	4.87E+00
					Nb-95	<4.23E+00	0.00E+00	4.23E+00
					I-131	<1.31E+01	0.00E+00	1.31E+01
					Cs-134	<4.04E+00	0.00E+00	4.04E+00
					Cs-137	<3.38E+00	0.00E+00	3.38E+00
					BaLa-140	<5.27E+00	0.00E+00	5.27E+00
					Be-7	<3.71E+01	0.00E+00	3.71E+01
					K-40	<7.33E+01	0.00E+00	7.33E+01
Sample ID:	585461	Sample Dates:	1/24/2023 - 2/21/2023		Nuclide	Activity	2 Sigma Error	MDA
					Beta	<3.25E+00	0.00E+00	3.25E+00
					Mn-54	<3.76E+00	0.00E+00	3.76E+00
					Co-58	<3.89E+00	0.00E+00	3.89E+00
					Fe-59	<9.77E+00	0.00E+00	9.77E+00
					Co-60	<4.37E+00	0.00E+00	4.37E+00
					Zn-65	<1.02E+01	0.00E+00	1.02E+01
					Zr-95	<6.89E+00	0.00E+00	6.89E+00
					Nb-95	<5.77E+00	0.00E+00	5.77E+00
					I-131	<1.27E+01	0.00E+00	1.27E+01
					Cs-134	<5.92E+00	0.00E+00	5.92E+00
					Cs-137	<3.42E+00	0.00E+00	3.42E+00
					BaLa-140	<2.37E+00	0.00E+00	2.37E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 214 [INDICATOR - SSE @ 7.3 miles]

Sample ID:	585461	Sample Dates:	1/24/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<4.19E+01	0.00E+00	4.19E+01
				K-40	7.01E+01	4.75E+01	6.83E+01
Sample ID:	586780	Sample Dates:	2/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<3.78E+00	0.00E+00	3.78E+00
				Co-58	<4.53E+00	0.00E+00	4.53E+00
				Fe-59	<9.24E+00	0.00E+00	9.24E+00
				Co-60	<4.01E+00	0.00E+00	4.01E+00
				Zn-65	<8.07E+00	0.00E+00	8.07E+00
				Zr-95	<7.38E+00	0.00E+00	7.38E+00
				Nb-95	<4.77E+00	0.00E+00	4.77E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<4.19E+00	0.00E+00	4.19E+00
				Cs-137	<4.28E+00	0.00E+00	4.28E+00
				BaLa-140	<9.99E+00	0.00E+00	9.99E+00
				Be-7	<3.82E+01	0.00E+00	3.82E+01
				K-40	6.45E+01	4.07E+01	5.85E+01
Sample ID:	585151	Sample Dates:	12/28/2022 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	5.57E+02	1.39E+02	2.09E+02
Sample ID:	587920	Sample Dates:	3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.71E+00	4.27E+00	3.19E+00
				Mn-54	<3.17E+00	0.00E+00	3.17E+00
				Co-58	<4.71E+00	0.00E+00	4.71E+00
				Fe-59	<8.27E+00	0.00E+00	8.27E+00
				Co-60	<3.76E+00	0.00E+00	3.76E+00
				Zn-65	<7.37E+00	0.00E+00	7.37E+00
				Zr-95	<7.62E+00	0.00E+00	7.62E+00
				Nb-95	<4.94E+00	0.00E+00	4.94E+00
				I-131	<1.32E+01	0.00E+00	1.32E+01
				Cs-134	<4.60E+00	0.00E+00	4.60E+00
				Cs-137	<3.52E+00	0.00E+00	3.52E+00
				BaLa-140	<8.44E+00	0.00E+00	8.44E+00
				Be-7	<3.18E+01	0.00E+00	3.18E+01
				K-40	<7.44E+01	0.00E+00	7.44E+01
Sample ID:	589933	Sample Dates:	4/18/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.19E+00	0.00E+00	3.19E+00
				Mn-54	<3.81E+00	0.00E+00	3.81E+00
				Co-58	<4.44E+00	0.00E+00	4.44E+00
				Fe-59	<9.98E+00	0.00E+00	9.98E+00
				Co-60	<5.68E+00	0.00E+00	5.68E+00
				Zn-65	<6.74E+00	0.00E+00	6.74E+00
				Zr-95	<9.00E+00	0.00E+00	9.00E+00
				Nb-95	<5.20E+00	0.00E+00	5.20E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<3.69E+00	0.00E+00	3.69E+00
				Cs-137	<4.46E+00	0.00E+00	4.46E+00
				BaLa-140	<2.46E+00	0.00E+00	2.46E+00
				Be-7	<3.94E+01	0.00E+00	3.94E+01
				K-40	8.22E+01	4.04E+01	4.50E+01
Sample ID:	590795	Sample Dates:	5/16/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.22E+00	0.00E+00	3.22E+00
				Mn-54	<3.77E+00	0.00E+00	3.77E+00
				Co-58	<4.28E+00	0.00E+00	4.28E+00
				Fe-59	<9.20E+00	0.00E+00	9.20E+00
				Co-60	<4.89E+00	0.00E+00	4.89E+00
				Zn-65	<8.68E+00	0.00E+00	8.68E+00
				Zr-95	<4.80E+00	0.00E+00	4.80E+00
				Nb-95	<3.65E+00	0.00E+00	3.65E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<2.93E+00	0.00E+00	2.93E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 214 [INDICATOR - SSE @ 7.3 miles]

Sample ID:	590795	Sample Dates:	5/16/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<3.03E+00	0.00E+00	3.03E+00
				BaLa-140	<8.67E+00	0.00E+00	8.67E+00
				Be-7	<3.65E+01	0.00E+00	3.65E+01
				K-40	4.91E+01	3.81E+01	5.75E+01
Sample ID:	589817	Sample Dates:	4/18/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	7.61E+02	1.35E+02	1.91E+02
Sample ID:	592003	Sample Dates:	6/13/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.23E+00	0.00E+00	3.23E+00
				Mn-54	<3.69E+00	0.00E+00	3.69E+00
				Co-58	<3.45E+00	0.00E+00	3.45E+00
				Fe-59	<6.92E+00	0.00E+00	6.92E+00
				Co-60	<3.87E+00	0.00E+00	3.87E+00
				Zn-65	<6.53E+00	0.00E+00	6.53E+00
				Zr-95	<7.54E+00	0.00E+00	7.54E+00
				Nb-95	<4.73E+00	0.00E+00	4.73E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<4.10E+00	0.00E+00	4.10E+00
				Cs-137	<3.41E+00	0.00E+00	3.41E+00
				BaLa-140	<1.09E+01	0.00E+00	1.09E+01
				Be-7	<3.71E+01	0.00E+00	3.71E+01
				K-40	8.51E+01	4.40E+01	5.74E+01
Sample ID:	593339	Sample Dates:	7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<5.03E+00	0.00E+00	5.03E+00
				Co-58	<4.49E+00	0.00E+00	4.49E+00
				Fe-59	<8.78E+00	0.00E+00	8.78E+00
				Co-60	<3.22E+00	0.00E+00	3.22E+00
				Zn-65	<7.77E+00	0.00E+00	7.77E+00
				Zr-95	<8.55E+00	0.00E+00	8.55E+00
				Nb-95	<4.14E+00	0.00E+00	4.14E+00
				I-131	<1.28E+01	0.00E+00	1.28E+01
				Cs-134	<3.27E+00	0.00E+00	3.27E+00
				Cs-137	<3.08E+00	0.00E+00	3.08E+00
				BaLa-140	<7.34E+00	0.00E+00	7.34E+00
				Be-7	<3.41E+01	0.00E+00	3.41E+01
				K-40	2.57E+01	3.44E+01	5.67E+01
Sample ID:	594892	Sample Dates:	8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.80E+00	4.22E+00	3.15E+00
				Mn-54	<2.97E+00	0.00E+00	2.97E+00
				Co-58	<3.83E+00	0.00E+00	3.83E+00
				Fe-59	<5.71E+00	0.00E+00	5.71E+00
				Co-60	<3.67E+00	0.00E+00	3.67E+00
				Zn-65	<7.04E+00	0.00E+00	7.04E+00
				Zr-95	<6.63E+00	0.00E+00	6.63E+00
				Nb-95	<5.01E+00	0.00E+00	5.01E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<3.61E+00	0.00E+00	3.61E+00
				Cs-137	<3.24E+00	0.00E+00	3.24E+00
				BaLa-140	<9.26E+00	0.00E+00	9.26E+00
				Be-7	<3.19E+01	0.00E+00	3.19E+01
				K-40	6.01E+01	3.89E+01	5.79E+01
Sample ID:	593692	Sample Dates:	7/11/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	8.92E+02	1.43E+02	1.95E+02
Sample ID:	597205	Sample Dates:	9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<3.37E+00	0.00E+00	3.37E+00
				Co-58	<2.81E+00	0.00E+00	2.81E+00
				Fe-59	<7.69E+00	0.00E+00	7.69E+00
				Co-60	<3.30E+00	0.00E+00	3.30E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 214 [INDICATOR - SSE @ 7.3 miles]

Sample ID:	597205	Sample Dates:	9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Zn-65	<5.74E+00	0.00E+00	5.74E+00
				Zr-95	<5.39E+00	0.00E+00	5.39E+00
				Nb-95	<4.49E+00	0.00E+00	4.49E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<2.84E+00	0.00E+00	2.84E+00
				Cs-137	<2.88E+00	0.00E+00	2.88E+00
				BaLa-140	<7.26E+00	0.00E+00	7.26E+00
				Be-7	<3.37E+01	0.00E+00	3.37E+01
				K-40	8.93E+01	3.14E+01	3.04E+01

Sample ID:	598965	Sample Dates:	10/3/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<3.47E+00	0.00E+00	3.47E+00
				Co-58	<3.85E+00	0.00E+00	3.85E+00
				Fe-59	<7.32E+00	0.00E+00	7.32E+00
				Co-60	<3.56E+00	0.00E+00	3.56E+00
				Zn-65	<7.51E+00	0.00E+00	7.51E+00
				Zr-95	<5.47E+00	0.00E+00	5.47E+00
				Nb-95	<4.23E+00	0.00E+00	4.23E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<2.85E+00	0.00E+00	2.85E+00
				Cs-137	<3.28E+00	0.00E+00	3.28E+00
				BaLa-140	<7.67E+00	0.00E+00	7.67E+00
				Be-7	<2.74E+01	0.00E+00	2.74E+01
				K-40	1.17E+02	3.75E+01	3.88E+01

Sample ID:	601203	Sample Dates:	10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<3.90E+00	0.00E+00	3.90E+00
				Co-58	<4.67E+00	0.00E+00	4.67E+00
				Fe-59	<7.35E+00	0.00E+00	7.35E+00
				Co-60	<4.36E+00	0.00E+00	4.36E+00
				Zn-65	<8.02E+00	0.00E+00	8.02E+00
				Zr-95	<7.86E+00	0.00E+00	7.86E+00
				Nb-95	<5.80E+00	0.00E+00	5.80E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<4.92E+00	0.00E+00	4.92E+00
				Cs-137	<2.75E+00	0.00E+00	2.75E+00
				BaLa-140	<4.90E+00	0.00E+00	4.90E+00
				Be-7	<3.03E+01	0.00E+00	3.03E+01
				K-40	7.85E+01	4.69E+01	6.80E+01

Sample ID:	599978	Sample Dates:	10/3/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	7.86E+02	1.31E+02	1.83E+02

Sample ID:	602629	Sample Dates:	11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.65E+00	4.24E+00	3.17E+00
				Mn-54	<1.70E+00	0.00E+00	1.70E+00
				Co-58	<2.09E+00	0.00E+00	2.09E+00
				Fe-59	<4.13E+00	0.00E+00	4.13E+00
				Co-60	<2.23E+00	0.00E+00	2.23E+00
				Zn-65	<3.91E+00	0.00E+00	3.91E+00
				Zr-95	<4.06E+00	0.00E+00	4.06E+00
				Nb-95	<3.02E+00	0.00E+00	3.02E+00
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<2.28E+00	0.00E+00	2.28E+00
				Cs-137	<2.29E+00	0.00E+00	2.29E+00
				BaLa-140	<4.55E+00	0.00E+00	4.55E+00
				Be-7	<2.03E+01	0.00E+00	2.03E+01
				K-40	6.87E+01	2.22E+01	2.70E+01

Sample Point 218 [CONTROL - NNE @ 13.5 miles]

Sample ID:	583268	Sample Dates:	12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.31E+00	4.39E+00	3.27E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l
Sample Point 218 [CONTROL - NNE @ 13.5 miles]

Sample ID: 583268	Sample Dates: 12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.42E+00	0.00E+00	3.42E+00
		Co-58	<3.92E+00	0.00E+00	3.92E+00
		Fe-59	<6.12E+00	0.00E+00	6.12E+00
		Co-60	<2.82E+00	0.00E+00	2.82E+00
		Zn-65	<8.03E+00	0.00E+00	8.03E+00
		Zr-95	<6.94E+00	0.00E+00	6.94E+00
		Nb-95	<3.40E+00	0.00E+00	3.40E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<4.21E+00	0.00E+00	4.21E+00
		Cs-137	<2.99E+00	0.00E+00	2.99E+00
		BaLa-140	<6.72E+00	0.00E+00	6.72E+00
		Be-7	<3.35E+01	0.00E+00	3.35E+01
		K-40	5.75E+01	3.13E+01	4.24E+01
Sample ID: 585462	Sample Dates: 1/24/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<3.56E+00	0.00E+00	3.56E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<4.33E+00	0.00E+00	4.33E+00
		Zn-65	<6.34E+00	0.00E+00	6.34E+00
		Zr-95	<5.90E+00	0.00E+00	5.90E+00
		Nb-95	<4.37E+00	0.00E+00	4.37E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.78E+00	0.00E+00	4.78E+00
		Cs-137	<3.93E+00	0.00E+00	3.93E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<3.51E+01	0.00E+00	3.51E+01
		K-40	3.32E+01	3.91E+01	6.34E+01
Sample ID: 586781	Sample Dates: 2/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<2.39E+00	0.00E+00	2.39E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<7.70E+00	0.00E+00	7.70E+00
		Co-60	<3.79E+00	0.00E+00	3.79E+00
		Zn-65	<6.26E+00	0.00E+00	6.26E+00
		Zr-95	<5.53E+00	0.00E+00	5.53E+00
		Nb-95	<4.31E+00	0.00E+00	4.31E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.90E+00	0.00E+00	3.90E+00
		Cs-137	<3.22E+00	0.00E+00	3.22E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
		Be-7	<3.69E+01	0.00E+00	3.69E+01
		K-40	5.27E+01	3.29E+01	4.62E+01
Sample ID: 585152	Sample Dates: 12/28/2022 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	2.35E+02	1.29E+02	2.09E+02
Sample ID: 587921	Sample Dates: 3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<3.72E+00	0.00E+00	3.72E+00
		Co-58	<3.24E+00	0.00E+00	3.24E+00
		Fe-59	<6.35E+00	0.00E+00	6.35E+00
		Co-60	<2.69E+00	0.00E+00	2.69E+00
		Zn-65	<5.99E+00	0.00E+00	5.99E+00
		Zr-95	<7.93E+00	0.00E+00	7.93E+00
		Nb-95	<4.72E+00	0.00E+00	4.72E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<4.01E+00	0.00E+00	4.01E+00
		Cs-137	<2.72E+00	0.00E+00	2.72E+00
		BaLa-140	<6.12E+00	0.00E+00	6.12E+00
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	5.29E+01	3.37E+01	4.68E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l
Sample Point 218 [CONTROL - NNE @ 13.5 miles]

Sample ID:	589934	Sample Dates:	4/18/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.46E+00	4.26E+00	3.19E+00
				Mn-54	<3.34E+00	0.00E+00	3.34E+00
				Co-58	<3.49E+00	0.00E+00	3.49E+00
				Fe-59	<1.07E+01	0.00E+00	1.07E+01
				Co-60	<4.24E+00	0.00E+00	4.24E+00
				Zn-65	<9.75E+00	0.00E+00	9.75E+00
				Zr-95	<6.87E+00	0.00E+00	6.87E+00
				Nb-95	<4.32E+00	0.00E+00	4.32E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<2.81E+00	0.00E+00	2.81E+00
				Cs-137	<2.21E+00	0.00E+00	2.21E+00
				BaLa-140	<8.08E+00	0.00E+00	8.08E+00
				Be-7	<3.97E+01	0.00E+00	3.97E+01
				K-40	6.40E+01	3.17E+01	3.44E+01
Sample ID:	590796	Sample Dates:	5/16/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.22E+00	0.00E+00	3.22E+00
				Mn-54	<3.09E+00	0.00E+00	3.09E+00
				Co-58	<3.50E+00	0.00E+00	3.50E+00
				Fe-59	<7.04E+00	0.00E+00	7.04E+00
				Co-60	<3.48E+00	0.00E+00	3.48E+00
				Zn-65	<6.65E+00	0.00E+00	6.65E+00
				Zr-95	<5.29E+00	0.00E+00	5.29E+00
				Nb-95	<3.32E+00	0.00E+00	3.32E+00
				I-131	<1.24E+01	0.00E+00	1.24E+01
				Cs-134	<2.76E+00	0.00E+00	2.76E+00
				Cs-137	<3.34E+00	0.00E+00	3.34E+00
				BaLa-140	<7.90E+00	0.00E+00	7.90E+00
				Be-7	<3.24E+01	0.00E+00	3.24E+01
				K-40	1.10E+02	3.71E+01	3.93E+01
Sample ID:	589818	Sample Dates:	4/18/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	4.20E+02	1.24E+02	1.90E+02
Sample ID:	592004	Sample Dates:	6/13/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.23E+00	0.00E+00	3.23E+00
				Mn-54	<2.82E+00	0.00E+00	2.82E+00
				Co-58	<3.34E+00	0.00E+00	3.34E+00
				Fe-59	<8.90E+00	0.00E+00	8.90E+00
				Co-60	<2.13E+00	0.00E+00	2.13E+00
				Zn-65	<9.23E+00	0.00E+00	9.23E+00
				Zr-95	<6.66E+00	0.00E+00	6.66E+00
				Nb-95	<4.59E+00	0.00E+00	4.59E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<3.98E+00	0.00E+00	3.98E+00
				Cs-137	<3.66E+00	0.00E+00	3.66E+00
				BaLa-140	<8.18E+00	0.00E+00	8.18E+00
				Be-7	<2.97E+01	0.00E+00	2.97E+01
				K-40	<8.11E+01	0.00E+00	8.11E+01
Sample ID:	593340	Sample Dates:	7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<4.83E+00	0.00E+00	4.83E+00
				Co-58	<3.85E+00	0.00E+00	3.85E+00
				Fe-59	<5.12E+00	0.00E+00	5.12E+00
				Co-60	<3.85E+00	0.00E+00	3.85E+00
				Zn-65	<6.09E+00	0.00E+00	6.09E+00
				Zr-95	<7.34E+00	0.00E+00	7.34E+00
				Nb-95	<5.19E+00	0.00E+00	5.19E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<4.93E+00	0.00E+00	4.93E+00
				Cs-137	<4.31E+00	0.00E+00	4.31E+00
				BaLa-140	<1.13E+01	0.00E+00	1.13E+01
				Be-7	<3.29E+01	0.00E+00	3.29E+01
				K-40	9.20E+01	4.76E+01	5.94E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l
Sample Point 218 [CONTROL - NNE @ 13.5 miles]

Sample ID: 594893	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.73E+00	4.22E+00	3.15E+00
		Mn-54	<3.13E+00	0.00E+00	3.13E+00
		Co-58	<3.49E+00	0.00E+00	3.49E+00
		Fe-59	<8.35E+00	0.00E+00	8.35E+00
		Co-60	<2.78E+00	0.00E+00	2.78E+00
		Zn-65	<8.02E+00	0.00E+00	8.02E+00
		Zr-95	<6.66E+00	0.00E+00	6.66E+00
		Nb-95	<5.45E+00	0.00E+00	5.45E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.87E+00	0.00E+00	2.87E+00
		Cs-137	<3.66E+00	0.00E+00	3.66E+00
		BaLa-140	<9.96E+00	0.00E+00	9.96E+00
		Be-7	<2.66E+01	0.00E+00	2.66E+01
		K-40	5.85E+01	3.88E+01	5.69E+01
Sample ID: 593693	Sample Dates: 7/11/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	4.25E+02	1.27E+02	1.94E+02
Sample ID: 597206	Sample Dates: 9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.05E+00	0.00E+00	3.05E+00
		Co-58	<3.35E+00	0.00E+00	3.35E+00
		Fe-59	<7.54E+00	0.00E+00	7.54E+00
		Co-60	<4.62E+00	0.00E+00	4.62E+00
		Zn-65	<6.35E+00	0.00E+00	6.35E+00
		Zr-95	<6.53E+00	0.00E+00	6.53E+00
		Nb-95	<3.54E+00	0.00E+00	3.54E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.69E+00	0.00E+00	3.69E+00
		Cs-137	<2.97E+00	0.00E+00	2.97E+00
		BaLa-140	<8.33E+00	0.00E+00	8.33E+00
		Be-7	<3.26E+01	0.00E+00	3.26E+01
		K-40	6.41E+01	3.71E+01	5.11E+01
Sample ID: 598966	Sample Dates: 10/3/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<4.15E+00	0.00E+00	4.15E+00
		Co-58	<3.87E+00	0.00E+00	3.87E+00
		Fe-59	<9.22E+00	0.00E+00	9.22E+00
		Co-60	<4.85E+00	0.00E+00	4.85E+00
		Zn-65	<7.25E+00	0.00E+00	7.25E+00
		Zr-95	<7.11E+00	0.00E+00	7.11E+00
		Nb-95	<4.50E+00	0.00E+00	4.50E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.58E+00	0.00E+00	3.58E+00
		Cs-137	<2.71E+00	0.00E+00	2.71E+00
		BaLa-140	<6.41E+00	0.00E+00	6.41E+00
		Be-7	<3.64E+01	0.00E+00	3.64E+01
		K-40	5.22E+01	3.43E+01	4.85E+01
Sample ID: 601204	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.68E+00	0.00E+00	3.68E+00
		Co-58	<2.23E+00	0.00E+00	2.23E+00
		Fe-59	<7.31E+00	0.00E+00	7.31E+00
		Co-60	<3.17E+00	0.00E+00	3.17E+00
		Zn-65	<7.50E+00	0.00E+00	7.50E+00
		Zr-95	<4.93E+00	0.00E+00	4.93E+00
		Nb-95	<3.89E+00	0.00E+00	3.89E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<2.80E+00	0.00E+00	2.80E+00
		Cs-137	<2.96E+00	0.00E+00	2.96E+00
		BaLa-140	<5.54E+00	0.00E+00	5.54E+00
		Be-7	<2.71E+01	0.00E+00	2.71E+01
		K-40	9.61E+01	4.68E+01	6.50E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 218 [CONTROL - NNE @ 13.5 miles]

Sample ID:	599979	Sample Dates:	10/3/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	6.35E+02	1.26E+02	1.82E+02
Sample ID:	602630	Sample Dates:	11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.17E+00	0.00E+00	3.17E+00
				Mn-54	<2.45E+00	0.00E+00	2.45E+00
				Co-58	<2.90E+00	0.00E+00	2.90E+00
				Fe-59	<5.10E+00	0.00E+00	5.10E+00
				Co-60	<2.03E+00	0.00E+00	2.03E+00
				Zn-65	<5.64E+00	0.00E+00	5.64E+00
				Zr-95	<5.72E+00	0.00E+00	5.72E+00
				Nb-95	<3.63E+00	0.00E+00	3.63E+00
				I-131	<1.39E+01	0.00E+00	1.39E+01
				Cs-134	<2.74E+00	0.00E+00	2.74E+00
				Cs-137	<2.52E+00	0.00E+00	2.52E+00
				BaLa-140	<7.33E+00	0.00E+00	7.33E+00
				Be-7	<2.64E+01	0.00E+00	2.64E+01
				K-40	1.18E+02	3.23E+01	3.67E+01

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	587725	Sample Dates:	4/4/2023 - 4/4/2023	PREDATOR	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.72E+01	0.00E+00	8.72E+01
					Co-58	<8.99E+01	0.00E+00	8.99E+01
					Fe-59	<1.63E+02	0.00E+00	1.63E+02
					Co-60	<8.82E+01	0.00E+00	8.82E+01
					Zn-65	<1.57E+02	0.00E+00	1.57E+02
					Nb-95	<7.19E+01	0.00E+00	7.19E+01
					I-131	<1.01E+02	0.00E+00	1.01E+02
					Cs-134	<1.02E+02	0.00E+00	1.02E+02
					Cs-137	<8.51E+01	0.00E+00	8.51E+01
					Be-7	<8.14E+02	0.00E+00	8.14E+02
					K-40	5.15E+03	1.42E+03	1.15E+03
					Ag-110M	<7.67E+01	0.00E+00	7.67E+01
					Sb-122	<4.69E+02	0.00E+00	4.69E+02
					Sb-125	<1.72E+02	0.00E+00	1.72E+02
Sample ID:	587726	Sample Dates:	4/4/2023 - 4/4/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.38E+01	0.00E+00	7.38E+01
					Co-58	<7.99E+01	0.00E+00	7.99E+01
					Fe-59	<1.56E+02	0.00E+00	1.56E+02
					Co-60	<1.04E+02	0.00E+00	1.04E+02
					Zn-65	<1.64E+02	0.00E+00	1.64E+02
					Nb-95	<9.80E+01	0.00E+00	9.80E+01
					I-131	<1.14E+02	0.00E+00	1.14E+02
					Cs-134	<6.82E+01	0.00E+00	6.82E+01
					Cs-137	<7.55E+01	0.00E+00	7.55E+01
					Be-7	<5.53E+02	0.00E+00	5.53E+02
					K-40	3.91E+03	1.12E+03	7.65E+02
					Ag-110M	<7.69E+01	0.00E+00	7.69E+01
					Sb-122	<3.97E+02	0.00E+00	3.97E+02
					Sb-125	<2.05E+02	0.00E+00	2.05E+02
Sample ID:	587740	Sample Dates:	4/4/2023 - 4/4/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.00E+01	0.00E+00	8.00E+01
					Co-58	<7.86E+01	0.00E+00	7.86E+01
					Fe-59	<3.08E+01	0.00E+00	3.08E+01
					Co-60	<7.27E+01	0.00E+00	7.27E+01
					Zn-65	<1.69E+02	0.00E+00	1.69E+02
					Nb-95	<7.11E+01	0.00E+00	7.11E+01
					I-131	<7.94E+01	0.00E+00	7.94E+01
					Cs-134	<7.05E+01	0.00E+00	7.05E+01
					Cs-137	<6.17E+01	0.00E+00	6.17E+01
					Be-7	<6.03E+02	0.00E+00	6.03E+02
					K-40	4.45E+03	1.16E+03	1.83E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	587740	Sample Dates:	4/4/2023 - 4/4/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Ag-110M	<5.98E+01	0.00E+00	5.98E+01
					Sb-122	<3.25E+02	0.00E+00	3.25E+02
					Sb-125	<1.83E+02	0.00E+00	1.83E+02

Sample ID:	597832	Sample Dates:	10/3/2023 - 10/3/2023	PREDATOR	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.97E+01	0.00E+00	6.97E+01
					Co-58	<8.20E+01	0.00E+00	8.20E+01
					Fe-59	<1.46E+02	0.00E+00	1.46E+02
					Co-60	<5.70E+01	0.00E+00	5.70E+01
					Zn-65	<1.64E+02	0.00E+00	1.64E+02
					Nb-95	<7.64E+01	0.00E+00	7.64E+01
					I-131	<1.20E+02	0.00E+00	1.20E+02
					Cs-134	<8.57E+01	0.00E+00	8.57E+01
					Cs-137	<7.78E+01	0.00E+00	7.78E+01
					Be-7	<6.01E+02	0.00E+00	6.01E+02
					K-40	5.59E+03	1.37E+03	1.09E+03
					Ag-110M	<6.13E+01	0.00E+00	6.13E+01
					Sb-122	<4.95E+02	0.00E+00	4.95E+02
					Sb-125	<1.76E+02	0.00E+00	1.76E+02

Sample ID:	597833	Sample Dates:	10/3/2023 - 10/3/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.56E+01	0.00E+00	8.56E+01
					Co-58	<7.30E+01	0.00E+00	7.30E+01
					Fe-59	<1.51E+02	0.00E+00	1.51E+02
					Co-60	<7.85E+01	0.00E+00	7.85E+01
					Zn-65	<1.60E+02	0.00E+00	1.60E+02
					Nb-95	<7.73E+01	0.00E+00	7.73E+01
					I-131	<1.02E+02	0.00E+00	1.02E+02
					Cs-134	<9.28E+01	0.00E+00	9.28E+01
					Cs-137	<6.91E+01	0.00E+00	6.91E+01
					Be-7	<5.82E+02	0.00E+00	5.82E+02
					K-40	3.71E+03	1.29E+03	1.52E+03
					Ag-110M	<6.51E+01	0.00E+00	6.51E+01
					Sb-122	<4.22E+02	0.00E+00	4.22E+02
					Sb-125	<1.82E+02	0.00E+00	1.82E+02

Sample ID:	597855	Sample Dates:	10/3/2023 - 10/3/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.81E+01	0.00E+00	7.81E+01
					Co-58	<8.69E+01	0.00E+00	8.69E+01
					Fe-59	<1.99E+02	0.00E+00	1.99E+02
					Co-60	<5.84E+01	0.00E+00	5.84E+01
					Zn-65	<2.10E+02	0.00E+00	2.10E+02
					Nb-95	<9.70E+01	0.00E+00	9.70E+01
					I-131	<1.10E+02	0.00E+00	1.10E+02
					Cs-134	<8.75E+01	0.00E+00	8.75E+01
					Cs-137	<7.94E+01	0.00E+00	7.94E+01
					Be-7	<6.13E+02	0.00E+00	6.13E+02
					K-40	4.64E+03	1.29E+03	1.16E+03
					Ag-110M	<5.56E+01	0.00E+00	5.56E+01
					Sb-122	<4.46E+02	0.00E+00	4.46E+02
					Sb-125	<2.27E+02	0.00E+00	2.27E+02

Sample Point 216 [CONTROL - NNE @ 4.19 miles]

Sample ID:	587728	Sample Dates:	4/5/2023 - 4/5/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.06E+01	0.00E+00	7.06E+01
					Co-58	<8.53E+01	0.00E+00	8.53E+01
					Fe-59	<1.53E+02	0.00E+00	1.53E+02
					Co-60	<1.11E+02	0.00E+00	1.11E+02
					Zn-65	<2.26E+02	0.00E+00	2.26E+02
					Nb-95	<8.98E+01	0.00E+00	8.98E+01
					I-131	<1.22E+02	0.00E+00	1.22E+02
					Cs-134	<8.42E+01	0.00E+00	8.42E+01
					Cs-137	<8.86E+01	0.00E+00	8.86E+01
					Be-7	<6.54E+02	0.00E+00	6.54E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 216 [CONTROL - NNE @ 4.19 miles]

Sample ID: 587728	Sample Dates: 4/5/2023 - 4/5/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
			K-40	4.43E+03	1.28E+03	1.04E+03
			Ag-110M	<8.27E+01	0.00E+00	8.27E+01
			Sb-122	<4.12E+02	0.00E+00	4.12E+02
			Sb-125	<2.18E+02	0.00E+00	2.18E+02
Sample ID: 587727	Sample Dates: 4/5/2023 - 4/5/2023	PREDATOR	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.17E+01	0.00E+00	7.17E+01
			Co-58	<9.06E+01	0.00E+00	9.06E+01
			Fe-59	<1.28E+02	0.00E+00	1.28E+02
			Co-60	<7.67E+01	0.00E+00	7.67E+01
			Zn-65	<1.79E+02	0.00E+00	1.79E+02
			Nb-95	<7.86E+01	0.00E+00	7.86E+01
			I-131	<1.20E+02	0.00E+00	1.20E+02
			Cs-134	<8.56E+01	0.00E+00	8.56E+01
			Cs-137	<5.35E+01	0.00E+00	5.35E+01
			Be-7	<5.44E+02	0.00E+00	5.44E+02
			K-40	4.92E+03	1.38E+03	1.15E+03
			Ag-110M	<4.81E+01	0.00E+00	4.81E+01
			Sb-122	<3.18E+02	0.00E+00	3.18E+02
			Sb-125	<2.24E+02	0.00E+00	2.24E+02
Sample ID: 587741	Sample Dates: 4/5/2023 - 4/5/2023	BOTMFEEDEER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.06E+02	0.00E+00	1.06E+02
			Co-58	<8.95E+01	0.00E+00	8.95E+01
			Fe-59	<1.72E+02	0.00E+00	1.72E+02
			Co-60	<1.10E+02	0.00E+00	1.10E+02
			Zn-65	<1.71E+02	0.00E+00	1.71E+02
			Nb-95	<1.12E+02	0.00E+00	1.12E+02
			I-131	<1.40E+02	0.00E+00	1.40E+02
			Cs-134	<9.34E+01	0.00E+00	9.34E+01
			Cs-137	<9.29E+01	0.00E+00	9.29E+01
			Be-7	<5.26E+02	0.00E+00	5.26E+02
			K-40	4.61E+03	1.36E+03	1.20E+03
			Ag-110M	<8.02E+01	0.00E+00	8.02E+01
			Sb-122	<3.25E+02	0.00E+00	3.25E+02
			Sb-125	<1.94E+02	0.00E+00	1.94E+02
Sample ID: 597834	Sample Dates: 10/3/2023 - 10/3/2023	PREDATOR	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.91E+01	0.00E+00	6.91E+01
			Co-58	<5.60E+01	0.00E+00	5.60E+01
			Fe-59	<1.28E+02	0.00E+00	1.28E+02
			Co-60	<6.97E+01	0.00E+00	6.97E+01
			Zn-65	<1.72E+02	0.00E+00	1.72E+02
			Nb-95	<6.87E+01	0.00E+00	6.87E+01
			I-131	<9.29E+01	0.00E+00	9.29E+01
			Cs-134	<9.05E+01	0.00E+00	9.05E+01
			Cs-137	<5.70E+01	0.00E+00	5.70E+01
			Be-7	<5.08E+02	0.00E+00	5.08E+02
			K-40	4.92E+03	1.21E+03	8.31E+02
			Ag-110M	<7.54E+01	0.00E+00	7.54E+01
			Sb-122	<3.51E+02	0.00E+00	3.51E+02
			Sb-125	<1.48E+02	0.00E+00	1.48E+02
Sample ID: 597835	Sample Dates: 10/3/2023 - 10/3/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.79E+01	0.00E+00	6.79E+01
			Co-58	<6.22E+01	0.00E+00	6.22E+01
			Fe-59	<1.75E+02	0.00E+00	1.75E+02
			Co-60	<7.80E+01	0.00E+00	7.80E+01
			Zn-65	<1.39E+02	0.00E+00	1.39E+02
			Nb-95	<8.43E+01	0.00E+00	8.43E+01
			I-131	<9.36E+01	0.00E+00	9.36E+01
			Cs-134	<9.03E+01	0.00E+00	9.03E+01
			Cs-137	<6.64E+01	0.00E+00	6.64E+01
			Be-7	<4.86E+02	0.00E+00	4.86E+02
			K-40	4.33E+03	1.18E+03	9.79E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 216 [CONTROL - NNE @ 4.19 miles]

Sample ID: 597835	Sample Dates: 10/3/2023 - 10/3/2023	FORAGER	Nuclide	Activity	2 Sigma Error	MDA
			Ag-110M	<5.99E+01	0.00E+00	5.99E+01
			Sb-122	<4.81E+02	0.00E+00	4.81E+02
			Sb-125	<1.40E+02	0.00E+00	1.40E+02
Sample ID: 597856	Sample Dates: 10/3/2023 - 10/3/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.14E+01	0.00E+00	6.14E+01
			Co-58	<7.53E+01	0.00E+00	7.53E+01
			Fe-59	<9.99E+01	0.00E+00	9.99E+01
			Co-60	<9.59E+01	0.00E+00	9.59E+01
			Zn-65	<1.39E+02	0.00E+00	1.39E+02
			Nb-95	<5.86E+01	0.00E+00	5.86E+01
			I-131	<8.04E+01	0.00E+00	8.04E+01
			Cs-134	<7.17E+01	0.00E+00	7.17E+01
			Cs-137	<5.74E+01	0.00E+00	5.74E+01
			Be-7	<3.81E+02	0.00E+00	3.81E+02
			K-40	4.43E+03	1.02E+03	4.96E+02
			Ag-110M	<5.84E+01	0.00E+00	5.84E+01
			Sb-122	<2.93E+02	0.00E+00	2.93E+02
			Sb-125	<1.37E+02	0.00E+00	1.37E+02

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 221 [CONTROL - NW @ 14.5 miles]

Sample ID: 582978	Sample Dates: 1/4/2023 - 1/4/2023		Nuclide	Activity	2 Sigma Error	MDA
			LLI-131	<7.04E-01	0.00E+00	7.04E-01
			I-131	<4.99E+00	0.00E+00	4.99E+00
			Cs-134	<7.95E+00	0.00E+00	7.95E+00
			Cs-137	<8.87E+00	0.00E+00	8.87E+00
			BaLa-140	<5.96E+00	0.00E+00	5.96E+00
			Be-7	<5.58E+01	0.00E+00	5.58E+01
Sample ID: 583513	Sample Dates: 1/18/2023 - 1/18/2023		Nuclide	Activity	2 Sigma Error	MDA
			LLI-131	<7.96E-01	0.00E+00	7.96E-01
			I-131	<7.46E+00	0.00E+00	7.46E+00
			Cs-134	<6.48E+00	0.00E+00	6.48E+00
			Cs-137	<7.99E+00	0.00E+00	7.99E+00
			BaLa-140	<5.74E+00	0.00E+00	5.74E+00
			Be-7	<5.31E+01	0.00E+00	5.31E+01
Sample ID: 584946	Sample Dates: 1/31/2023 - 1/31/2023		Nuclide	Activity	2 Sigma Error	MDA
			LLI-131	<6.89E-01	0.00E+00	6.89E-01
			I-131	<6.42E+00	0.00E+00	6.42E+00
			Cs-134	<7.83E+00	0.00E+00	7.83E+00
			Cs-137	<7.79E+00	0.00E+00	7.79E+00
			BaLa-140	<7.53E+00	0.00E+00	7.53E+00
			Be-7	<5.38E+01	0.00E+00	5.38E+01
Sample ID: 585580	Sample Dates: 2/14/2023 - 2/14/2023		Nuclide	Activity	2 Sigma Error	MDA
			LLI-131	<7.99E-01	0.00E+00	7.99E-01
			I-131	<7.39E+00	0.00E+00	7.39E+00
			Cs-134	<8.40E+00	0.00E+00	8.40E+00
			Cs-137	<7.85E+00	0.00E+00	7.85E+00
			BaLa-140	<7.22E+00	0.00E+00	7.22E+00
			Be-7	<4.76E+01	0.00E+00	4.76E+01
Sample ID: 586093	Sample Dates: 3/1/2023 - 3/1/2023		Nuclide	Activity	2 Sigma Error	MDA
			LLI-131	<7.88E-01	0.00E+00	7.88E-01
			I-131	<5.56E+00	0.00E+00	5.56E+00
			Cs-134	<8.40E+00	0.00E+00	8.40E+00
			Cs-137	<8.87E+00	0.00E+00	8.87E+00
			BaLa-140	<7.14E+00	0.00E+00	7.14E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 221 [CONTROL - NW @ 14.5 miles]

Sample ID:	586093	Sample Dates:	3/1/2023 - 3/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<5.27E+01	0.00E+00	5.27E+01
				K-40	1.65E+03	2.46E+02	1.75E+01
Sample ID:	586952	Sample Dates:	3/13/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.47E-01	0.00E+00	7.47E-01
				I-131	<4.47E+00	0.00E+00	4.47E+00
				Cs-134	<7.28E+00	0.00E+00	7.28E+00
				Cs-137	<9.57E+00	0.00E+00	9.57E+00
				BaLa-140	<2.26E+00	0.00E+00	2.26E+00
				Be-7	<4.26E+01	0.00E+00	4.26E+01
				K-40	1.43E+03	2.33E+02	1.06E+02
Sample ID:	587455	Sample Dates:	3/28/2023 - 3/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.47E-01	0.00E+00	7.47E-01
				I-131	<7.19E+00	0.00E+00	7.19E+00
				Cs-134	<7.73E+00	0.00E+00	7.73E+00
				Cs-137	<9.75E+00	0.00E+00	9.75E+00
				BaLa-140	<7.36E+00	0.00E+00	7.36E+00
				Be-7	<6.57E+01	0.00E+00	6.57E+01
				K-40	1.42E+03	2.29E+02	1.04E+02
Sample ID:	588323	Sample Dates:	4/11/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.69E-01	0.00E+00	7.69E-01
				I-131	<7.97E+00	0.00E+00	7.97E+00
				Cs-134	<1.04E+01	0.00E+00	1.04E+01
				Cs-137	<9.22E+00	0.00E+00	9.22E+00
				BaLa-140	<5.87E+00	0.00E+00	5.87E+00
				Be-7	<5.39E+01	0.00E+00	5.39E+01
				K-40	1.60E+03	2.46E+02	8.46E+01
Sample ID:	589564	Sample Dates:	4/25/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.99E-01	0.00E+00	7.99E-01
				I-131	<7.10E+00	0.00E+00	7.10E+00
				Cs-134	<1.06E+01	0.00E+00	1.06E+01
				Cs-137	<8.87E+00	0.00E+00	8.87E+00
				BaLa-140	<5.68E+00	0.00E+00	5.68E+00
				Be-7	<4.15E+01	0.00E+00	4.15E+01
				K-40	1.48E+03	2.37E+02	1.12E+02
Sample ID:	590036	Sample Dates:	5/9/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.38E-01	0.00E+00	7.38E-01
				I-131	<8.78E+00	0.00E+00	8.78E+00
				Cs-134	<1.10E+01	0.00E+00	1.10E+01
				Cs-137	<1.04E+01	0.00E+00	1.04E+01
				BaLa-140	<6.20E+00	0.00E+00	6.20E+00
				Be-7	<4.48E+01	0.00E+00	4.48E+01
				K-40	1.47E+03	2.39E+02	8.29E+01
Sample ID:	590506	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.97E-01	0.00E+00	7.97E-01
				I-131	<5.61E+00	0.00E+00	5.61E+00
				Cs-134	<8.40E+00	0.00E+00	8.40E+00
				Cs-137	<5.07E+00	0.00E+00	5.07E+00
				BaLa-140	<7.18E+00	0.00E+00	7.18E+00
				Be-7	<5.02E+01	0.00E+00	5.02E+01
				K-40	1.55E+03	2.36E+02	1.75E+01
Sample ID:	591219	Sample Dates:	6/6/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.98E-01	0.00E+00	7.98E-01
				I-131	<6.41E+00	0.00E+00	6.41E+00
				Cs-134	<8.99E+00	0.00E+00	8.99E+00
				Cs-137	<5.16E+00	0.00E+00	5.16E+00
				BaLa-140	<7.29E+00	0.00E+00	7.29E+00
				Be-7	<4.79E+01	0.00E+00	4.79E+01
				K-40	1.52E+03	2.43E+02	1.29E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 221 [CONTROL - NW @ 14.5 miles]

Sample ID: 591641	Sample Dates: 6/20/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.32E-01	0.00E+00	7.32E-01
		I-131	<6.70E+00	0.00E+00	6.70E+00
		Cs-134	<9.55E+00	0.00E+00	9.55E+00
		Cs-137	<5.22E+00	0.00E+00	5.22E+00
		BaLa-140	<5.80E+00	0.00E+00	5.80E+00
		Be-7	<5.27E+01	0.00E+00	5.27E+01
		K-40	1.39E+03	2.24E+02	7.95E+01
Sample ID: 592206	Sample Dates: 7/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.54E-01	0.00E+00	7.54E-01
		I-131	<7.35E+00	0.00E+00	7.35E+00
		Cs-134	<8.23E+00	0.00E+00	8.23E+00
		Cs-137	<5.82E+00	0.00E+00	5.82E+00
		BaLa-140	<7.33E+00	0.00E+00	7.33E+00
		Be-7	<6.17E+01	0.00E+00	6.17E+01
		K-40	1.41E+03	2.33E+02	1.32E+02
Sample ID: 593022	Sample Dates: 7/18/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.47E-01	0.00E+00	7.47E-01
		I-131	<6.93E+00	0.00E+00	6.93E+00
		Cs-134	<5.09E+00	0.00E+00	5.09E+00
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<9.47E+00	0.00E+00	9.47E+00
		Be-7	<3.80E+01	0.00E+00	3.80E+01
		K-40	1.48E+03	2.41E+02	1.39E+02
Sample ID: 593574	Sample Dates: 8/1/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.84E-01	0.00E+00	6.84E-01
		I-131	<7.63E+00	0.00E+00	7.63E+00
		Cs-134	<6.36E+00	0.00E+00	6.36E+00
		Cs-137	<7.08E+00	0.00E+00	7.08E+00
		BaLa-140	<8.70E+00	0.00E+00	8.70E+00
		Be-7	<5.80E+01	0.00E+00	5.80E+01
		K-40	1.20E+03	2.05E+02	8.19E+01
Sample ID: 594300	Sample Dates: 8/15/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<9.12E-01	0.00E+00	9.12E-01
		I-131	<4.81E+00	0.00E+00	4.81E+00
		Cs-134	<8.70E+00	0.00E+00	8.70E+00
		Cs-137	<7.28E+00	0.00E+00	7.28E+00
		BaLa-140	<6.04E+00	0.00E+00	6.04E+00
		Be-7	<5.80E+01	0.00E+00	5.80E+01
		K-40	1.31E+03	2.14E+02	6.47E+01
Sample ID: 595007	Sample Dates: 8/29/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.88E-01	0.00E+00	7.88E-01
		I-131	<6.39E+00	0.00E+00	6.39E+00
		Cs-134	<8.56E+00	0.00E+00	8.56E+00
		Cs-137	<8.70E+00	0.00E+00	8.70E+00
		BaLa-140	<7.27E+00	0.00E+00	7.27E+00
		Be-7	<5.56E+01	0.00E+00	5.56E+01
		K-40	1.33E+03	2.18E+02	7.76E+01
Sample ID: 596411	Sample Dates: 9/12/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.06E-01	0.00E+00	7.06E-01
		I-131	<7.86E+00	0.00E+00	7.86E+00
		Cs-134	<8.71E+00	0.00E+00	8.71E+00
		Cs-137	<1.03E+01	0.00E+00	1.03E+01
		BaLa-140	<8.86E+00	0.00E+00	8.86E+00
		Be-7	<4.51E+01	0.00E+00	4.51E+01
		K-40	1.32E+03	2.17E+02	7.86E+01
Sample ID: 597295	Sample Dates: 9/26/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.81E-01	0.00E+00	7.81E-01
		I-131	<7.50E+00	0.00E+00	7.50E+00
		Cs-134	<9.22E+00	0.00E+00	9.22E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 221 [CONTROL - NW @ 14.5 miles]

Sample ID:	597295	Sample Dates:	9/26/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<4.38E+00	0.00E+00	4.38E+00
				BaLa-140	<7.16E+00	0.00E+00	7.16E+00
				Be-7	<5.51E+01	0.00E+00	5.51E+01
				K-40	1.39E+03	2.28E+02	1.14E+02
Sample ID:	598229	Sample Dates:	10/10/2023 - 10/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.95E-01	0.00E+00	7.95E-01
				I-131	<6.66E+00	0.00E+00	6.66E+00
				Cs-134	<9.55E+00	0.00E+00	9.55E+00
				Cs-137	<8.08E+00	0.00E+00	8.08E+00
				BaLa-140	<2.12E+00	0.00E+00	2.12E+00
				Be-7	<5.27E+01	0.00E+00	5.27E+01
				K-40	1.14E+03	2.09E+02	1.41E+02
Sample ID:	599081	Sample Dates:	10/24/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.99E-01	0.00E+00	7.99E-01
				I-131	<6.91E+00	0.00E+00	6.91E+00
				Cs-134	<8.70E+00	0.00E+00	8.70E+00
				Cs-137	<8.79E+00	0.00E+00	8.79E+00
				BaLa-140	<6.04E+00	0.00E+00	6.04E+00
				Be-7	<5.57E+01	0.00E+00	5.57E+01
				K-40	1.09E+03	2.05E+02	1.46E+02
Sample ID:	600324	Sample Dates:	11/7/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.98E-01	0.00E+00	7.98E-01
				I-131	<6.84E+00	0.00E+00	6.84E+00
				Cs-134	<9.95E+00	0.00E+00	9.95E+00
				Cs-137	<4.50E+00	0.00E+00	4.50E+00
				BaLa-140	<6.00E+00	0.00E+00	6.00E+00
				Be-7	<6.22E+01	0.00E+00	6.22E+01
				K-40	1.17E+03	2.01E+02	7.14E+01
Sample ID:	601301	Sample Dates:	11/21/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.70E-01	0.00E+00	7.70E-01
				I-131	<5.97E+00	0.00E+00	5.97E+00
				Cs-134	<9.94E+00	0.00E+00	9.94E+00
				Cs-137	<9.12E+00	0.00E+00	9.12E+00
				BaLa-140	<5.79E+00	0.00E+00	5.79E+00
				Be-7	<5.02E+01	0.00E+00	5.02E+01
				K-40	8.98E+02	1.74E+02	8.58E+01
Sample ID:	602278	Sample Dates:	12/5/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.43E-01	0.00E+00	7.43E-01
				I-131	<6.83E+00	0.00E+00	6.83E+00
				Cs-134	<9.56E+00	0.00E+00	9.56E+00
				Cs-137	<8.08E+00	0.00E+00	8.08E+00
				BaLa-140	<7.57E+00	0.00E+00	7.57E+00
				Be-7	<5.56E+01	0.00E+00	5.56E+01
				K-40	5.04E+02	1.28E+02	8.24E+01
Sample ID:	602730	Sample Dates:	12/20/2023 - 12/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<6.78E-01	0.00E+00	6.78E-01
				I-131	<7.52E+00	0.00E+00	7.52E+00
				Cs-134	<7.74E+00	0.00E+00	7.74E+00
				Cs-137	<8.44E+00	0.00E+00	8.44E+00
				BaLa-140	<9.79E+00	0.00E+00	9.79E+00
				Be-7	<6.42E+01	0.00E+00	6.42E+01
				K-40	2.94E+02	1.04E+02	1.00E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	586684	Sample Dates:	4/11/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.08E+01	0.00E+00	4.08E+01
				Co-58	<4.52E+01	0.00E+00	4.52E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	586684	Sample Dates:	4/11/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Fe-59	<9.30E+01	0.00E+00	9.30E+01
				Co-60	<5.28E+01	0.00E+00	5.28E+01
				Zn-65	<1.09E+02	0.00E+00	1.09E+02
				Zr-95	<6.87E+01	0.00E+00	6.87E+01
				Nb-95	<4.73E+01	0.00E+00	4.73E+01
				I-131	<7.06E+01	0.00E+00	7.06E+01
				Cs-134	<5.59E+01	0.00E+00	5.59E+01
				Cs-137	<4.64E+01	0.00E+00	4.64E+01
				Be-7	<3.97E+02	0.00E+00	3.97E+02
				K-40	1.44E+04	1.69E+03	5.06E+02
				Co-57	<3.58E+01	0.00E+00	3.58E+01
				Mo-99	<1.64E+03	0.00E+00	1.64E+03
				Ag-110M	<3.75E+01	0.00E+00	3.75E+01
				Sb-122	<2.43E+02	0.00E+00	2.43E+02
				Sb-125	<9.83E+01	0.00E+00	9.83E+01

Sample ID:	595651	Sample Dates:	10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.61E+01	0.00E+00	8.61E+01
				Co-58	<9.31E+01	0.00E+00	9.31E+01
				Fe-59	<1.77E+02	0.00E+00	1.77E+02
				Co-60	1.08E+02	6.86E+01	9.37E+01
				Zn-65	<1.64E+02	0.00E+00	1.64E+02
				Zr-95	<1.45E+02	0.00E+00	1.45E+02
				Nb-95	<9.22E+01	0.00E+00	9.22E+01
				I-131	<2.22E+02	0.00E+00	2.22E+02
				Cs-134	<9.99E+01	0.00E+00	9.99E+01
				Cs-137	<6.26E+01	0.00E+00	6.26E+01
				Be-7	6.53E+02	4.77E+02	7.11E+02
				K-40	1.54E+04	2.29E+03	1.07E+03
				Co-57	<4.69E+01	0.00E+00	4.69E+01
				Mo-99	<2.72E+04	0.00E+00	2.72E+04
				Ag-110M	<6.31E+01	0.00E+00	6.31E+01
				Sb-122	<3.84E+03	0.00E+00	3.84E+03
				Sb-125	<1.34E+02	0.00E+00	1.34E+02

Sample Point 210 [INDICATOR - SE @ 2.31 miles]

Sample ID:	586685	Sample Dates:	4/11/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.54E+01	0.00E+00	4.54E+01
				Co-58	<5.07E+01	0.00E+00	5.07E+01
				Fe-59	<1.16E+02	0.00E+00	1.16E+02
				Co-60	<6.80E+01	0.00E+00	6.80E+01
				Zn-65	<1.13E+02	0.00E+00	1.13E+02
				Zr-95	<1.14E+02	0.00E+00	1.14E+02
				Nb-95	<6.41E+01	0.00E+00	6.41E+01
				I-131	<8.07E+01	0.00E+00	8.07E+01
				Cs-134	<5.47E+01	0.00E+00	5.47E+01
				Cs-137	<3.63E+01	0.00E+00	3.63E+01
				Be-7	<3.74E+02	0.00E+00	3.74E+02
				K-40	8.89E+03	1.52E+03	6.48E+02
				Co-57	<3.60E+01	0.00E+00	3.60E+01
				Mo-99	<2.45E+03	0.00E+00	2.45E+03
				Ag-110M	<5.52E+01	0.00E+00	5.52E+01
				Sb-122	<3.53E+02	0.00E+00	3.53E+02
				Sb-125	<9.94E+01	0.00E+00	9.94E+01

Sample ID:	595652	Sample Dates:	10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.09E+01	0.00E+00	7.09E+01
				Co-58	<7.88E+01	0.00E+00	7.88E+01
				Fe-59	<1.91E+02	0.00E+00	1.91E+02
				Co-60	<4.97E+01	0.00E+00	4.97E+01
				Zn-65	<1.70E+02	0.00E+00	1.70E+02
				Zr-95	<1.15E+02	0.00E+00	1.15E+02
				Nb-95	<1.04E+02	0.00E+00	1.04E+02
				I-131	<2.66E+02	0.00E+00	2.66E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 210 [INDICATOR - SE @ 2.31 miles]

Sample ID:	595652	Sample Dates:	10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<7.84E+01	0.00E+00	7.84E+01
				Cs-137	<7.74E+01	0.00E+00	7.74E+01
				Be-7	<5.78E+02	0.00E+00	5.78E+02
				K-40	1.93E+04	2.62E+03	1.15E+03
				Co-57	<4.85E+01	0.00E+00	4.85E+01
				Mo-99	<2.15E+04	0.00E+00	2.15E+04
				Ag-110M	<6.51E+01	0.00E+00	6.51E+01
				Sb-122	<5.30E+03	0.00E+00	5.30E+03
				Sb-125	<1.64E+02	0.00E+00	1.64E+02

Sample Point 262 [CONTROL - NNE @ 4.19 miles]

Sample ID:	586686	Sample Dates:	4/11/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.42E+01	0.00E+00	6.42E+01
				Co-58	<7.40E+01	0.00E+00	7.40E+01
				Fe-59	<1.98E+02	0.00E+00	1.98E+02
				Co-60	<7.48E+01	0.00E+00	7.48E+01
				Zn-65	<1.42E+02	0.00E+00	1.42E+02
				Zr-95	<1.72E+02	0.00E+00	1.72E+02
				Nb-95	<1.03E+02	0.00E+00	1.03E+02
				I-131	<1.17E+02	0.00E+00	1.17E+02
				Cs-134	<1.16E+02	0.00E+00	1.16E+02
				Cs-137	<9.06E+01	0.00E+00	9.06E+01
				Be-7	<7.23E+02	0.00E+00	7.23E+02
				K-40	7.27E+03	1.47E+03	1.03E+03
				Co-57	<6.94E+01	0.00E+00	6.94E+01
				Mo-99	<3.46E+03	0.00E+00	3.46E+03
				Ag-110M	<5.81E+01	0.00E+00	5.81E+01
				Sb-122	<6.04E+02	0.00E+00	6.04E+02
				Sb-125	<2.20E+02	0.00E+00	2.20E+02

Sample ID:	595653	Sample Dates:	10/17/2023 - 10/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.91E+01	0.00E+00	7.91E+01
				Co-58	<8.78E+01	0.00E+00	8.78E+01
				Fe-59	<1.95E+02	0.00E+00	1.95E+02
				Co-60	<7.53E+01	0.00E+00	7.53E+01
				Zn-65	<1.90E+02	0.00E+00	1.90E+02
				Zr-95	<1.34E+02	0.00E+00	1.34E+02
				Nb-95	<9.41E+01	0.00E+00	9.41E+01
				I-131	<2.80E+02	0.00E+00	2.80E+02
				Cs-134	<7.81E+01	0.00E+00	7.81E+01
				Cs-137	<7.21E+01	0.00E+00	7.21E+01
				Be-7	<7.72E+02	0.00E+00	7.72E+02
				K-40	1.09E+04	1.99E+03	1.26E+03
				Co-57	<7.11E+01	0.00E+00	7.11E+01
				Mo-99	<3.38E+04	0.00E+00	3.38E+04
				Ag-110M	<6.98E+01	0.00E+00	6.98E+01
				Sb-122	<3.88E+03	0.00E+00	3.88E+03
				Sb-125	<1.86E+02	0.00E+00	1.86E+02

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID:	583269	Sample Dates:	12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.93E+00	0.00E+00	2.93E+00
				Co-58	<4.47E+00	0.00E+00	4.47E+00
				Fe-59	<1.19E+01	0.00E+00	1.19E+01
				Co-60	<4.61E+00	0.00E+00	4.61E+00
				Zn-65	<9.01E+00	0.00E+00	9.01E+00
				Zr-95	<6.70E+00	0.00E+00	6.70E+00
				Nb-95	<4.72E+00	0.00E+00	4.72E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<4.51E+00	0.00E+00	4.51E+00
				Cs-137	<3.76E+00	0.00E+00	3.76E+00
				BaLa-140	<6.21E+00	0.00E+00	6.21E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID: 583269	Sample Dates: 12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<4.35E+01	0.00E+00	4.35E+01
		K-40	7.98E+01	3.80E+01	4.06E+01
Sample ID: 585463	Sample Dates: 1/24/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.50E+00	0.00E+00	3.50E+00
		Co-58	<3.20E+00	0.00E+00	3.20E+00
		Fe-59	<8.87E+00	0.00E+00	8.87E+00
		Co-60	<3.06E+00	0.00E+00	3.06E+00
		Zn-65	<7.15E+00	0.00E+00	7.15E+00
		Zr-95	<7.05E+00	0.00E+00	7.05E+00
		Nb-95	<4.80E+00	0.00E+00	4.80E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.00E+00	0.00E+00	4.00E+00
		Cs-137	<3.50E+00	0.00E+00	3.50E+00
		BaLa-140	<7.45E+00	0.00E+00	7.45E+00
		Be-7	<2.72E+01	0.00E+00	2.72E+01
		K-40	8.68E+01	3.81E+01	4.67E+01
Sample ID: 586782	Sample Dates: 2/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.39E+00	0.00E+00	4.39E+00
		Co-58	<4.18E+00	0.00E+00	4.18E+00
		Fe-59	<7.87E+00	0.00E+00	7.87E+00
		Co-60	<4.02E+00	0.00E+00	4.02E+00
		Zn-65	<8.08E+00	0.00E+00	8.08E+00
		Zr-95	<8.60E+00	0.00E+00	8.60E+00
		Nb-95	<5.41E+00	0.00E+00	5.41E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.95E+00	0.00E+00	3.95E+00
		Cs-137	<4.62E+00	0.00E+00	4.62E+00
		BaLa-140	<1.17E+01	0.00E+00	1.17E+01
		Be-7	<4.29E+01	0.00E+00	4.29E+01
		K-40	1.03E+02	4.44E+01	4.75E+01
Sample ID: 585153	Sample Dates: 12/28/2022 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	1.64E+04	3.97E+02	2.08E+02
Sample ID: 587922	Sample Dates: 3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.91E+00	0.00E+00	3.91E+00
		Co-58	<2.93E+00	0.00E+00	2.93E+00
		Fe-59	<7.72E+00	0.00E+00	7.72E+00
		Co-60	<5.22E+00	0.00E+00	5.22E+00
		Zn-65	<9.09E+00	0.00E+00	9.09E+00
		Zr-95	<6.80E+00	0.00E+00	6.80E+00
		Nb-95	<5.29E+00	0.00E+00	5.29E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.34E+00	0.00E+00	4.34E+00
		Cs-137	<2.88E+00	0.00E+00	2.88E+00
		BaLa-140	<1.14E+01	0.00E+00	1.14E+01
		Be-7	<3.06E+01	0.00E+00	3.06E+01
		K-40	<5.43E+01	0.00E+00	5.43E+01
Sample ID: 589935	Sample Dates: 4/18/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.94E+00	0.00E+00	3.94E+00
		Co-58	<4.61E+00	0.00E+00	4.61E+00
		Fe-59	<8.25E+00	0.00E+00	8.25E+00
		Co-60	<4.21E+00	0.00E+00	4.21E+00
		Zn-65	<7.75E+00	0.00E+00	7.75E+00
		Zr-95	<7.73E+00	0.00E+00	7.73E+00
		Nb-95	<5.65E+00	0.00E+00	5.65E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<5.08E+00	0.00E+00	5.08E+00
		Cs-137	<4.26E+00	0.00E+00	4.26E+00
		BaLa-140	<1.23E+01	0.00E+00	1.23E+01
		Be-7	<3.87E+01	0.00E+00	3.87E+01
		K-40	<4.89E+01	0.00E+00	4.89E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l
Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID: 590797	Sample Dates: 5/16/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.93E+00	0.00E+00	2.93E+00
		Co-58	<4.46E+00	0.00E+00	4.46E+00
		Fe-59	<8.01E+00	0.00E+00	8.01E+00
		Co-60	<4.27E+00	0.00E+00	4.27E+00
		Zn-65	<6.38E+00	0.00E+00	6.38E+00
		Zr-95	<8.29E+00	0.00E+00	8.29E+00
		Nb-95	<4.11E+00	0.00E+00	4.11E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.70E+00	0.00E+00	4.70E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<7.01E+00	0.00E+00	7.01E+00
		Be-7	<3.74E+01	0.00E+00	3.74E+01
		K-40	6.49E+01	3.43E+01	4.41E+01
Sample ID: 589819	Sample Dates: 4/18/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	6.48E+03	2.54E+02	1.92E+02
Sample ID: 592005	Sample Dates: 6/13/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.98E+00	0.00E+00	3.98E+00
		Co-58	<4.11E+00	0.00E+00	4.11E+00
		Fe-59	<7.77E+00	0.00E+00	7.77E+00
		Co-60	<3.74E+00	0.00E+00	3.74E+00
		Zn-65	<8.83E+00	0.00E+00	8.83E+00
		Zr-95	<6.14E+00	0.00E+00	6.14E+00
		Nb-95	<4.06E+00	0.00E+00	4.06E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.28E+00	0.00E+00	4.28E+00
		Cs-137	<3.05E+00	0.00E+00	3.05E+00
		BaLa-140	<7.58E+00	0.00E+00	7.58E+00
		Be-7	<4.01E+01	0.00E+00	4.01E+01
		K-40	3.93E+01	2.92E+01	4.12E+01
Sample ID: 593341	Sample Dates: 7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.67E+00	0.00E+00	3.67E+00
		Co-58	<3.59E+00	0.00E+00	3.59E+00
		Fe-59	<6.67E+00	0.00E+00	6.67E+00
		Co-60	<3.40E+00	0.00E+00	3.40E+00
		Zn-65	<8.68E+00	0.00E+00	8.68E+00
		Zr-95	<7.18E+00	0.00E+00	7.18E+00
		Nb-95	<5.65E+00	0.00E+00	5.65E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.60E+00	0.00E+00	3.60E+00
		Cs-137	<3.29E+00	0.00E+00	3.29E+00
		BaLa-140	<5.09E+00	0.00E+00	5.09E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	9.16E+01	4.19E+01	5.25E+01
Sample ID: 594894	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.75E+00	0.00E+00	3.75E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<7.42E+00	0.00E+00	7.42E+00
		Co-60	<3.01E+00	0.00E+00	3.01E+00
		Zn-65	<7.40E+00	0.00E+00	7.40E+00
		Zr-95	<6.37E+00	0.00E+00	6.37E+00
		Nb-95	<4.31E+00	0.00E+00	4.31E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.95E+00	0.00E+00	2.95E+00
		Cs-137	<3.39E+00	0.00E+00	3.39E+00
		BaLa-140	<9.83E+00	0.00E+00	9.83E+00
		Be-7	<3.37E+01	0.00E+00	3.37E+01
		K-40	6.18E+01	3.33E+01	4.48E+01
Sample ID: 593694	Sample Dates: 7/11/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	6.41E+03	2.60E+02	1.95E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 208 [INDICATOR - S @ 0.45 miles]

Sample ID: 597207	Sample Dates: 9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.10E+00	0.00E+00	4.10E+00
		Co-58	<4.30E+00	0.00E+00	4.30E+00
		Fe-59	<8.40E+00	0.00E+00	8.40E+00
		Co-60	<4.96E+00	0.00E+00	4.96E+00
		Zn-65	<7.94E+00	0.00E+00	7.94E+00
		Zr-95	<8.02E+00	0.00E+00	8.02E+00
		Nb-95	<4.79E+00	0.00E+00	4.79E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.86E+00	0.00E+00	3.86E+00
		Cs-137	<4.00E+00	0.00E+00	4.00E+00
		BaLa-140	<9.32E+00	0.00E+00	9.32E+00
		Be-7	<4.43E+01	0.00E+00	4.43E+01
		K-40	8.56E+01	4.18E+01	4.86E+01
Sample ID: 598967	Sample Dates: 10/3/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.40E+00	0.00E+00	4.40E+00
		Co-58	<3.73E+00	0.00E+00	3.73E+00
		Fe-59	<9.60E+00	0.00E+00	9.60E+00
		Co-60	<4.44E+00	0.00E+00	4.44E+00
		Zn-65	<7.39E+00	0.00E+00	7.39E+00
		Zr-95	<6.62E+00	0.00E+00	6.62E+00
		Nb-95	<5.65E+00	0.00E+00	5.65E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<4.20E+00	0.00E+00	4.20E+00
		Cs-137	<5.17E+00	0.00E+00	5.17E+00
		BaLa-140	<8.05E+00	0.00E+00	8.05E+00
		Be-7	<3.55E+01	0.00E+00	3.55E+01
		K-40	9.81E+01	4.38E+01	5.44E+01
Sample ID: 601205	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.49E+00	0.00E+00	3.49E+00
		Co-58	<4.12E+00	0.00E+00	4.12E+00
		Fe-59	<8.10E+00	0.00E+00	8.10E+00
		Co-60	<4.51E+00	0.00E+00	4.51E+00
		Zn-65	<6.45E+00	0.00E+00	6.45E+00
		Zr-95	<6.83E+00	0.00E+00	6.83E+00
		Nb-95	<4.73E+00	0.00E+00	4.73E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.09E+00	0.00E+00	3.09E+00
		Cs-137	<3.93E+00	0.00E+00	3.93E+00
		BaLa-140	<7.18E+00	0.00E+00	7.18E+00
		Be-7	<3.65E+01	0.00E+00	3.65E+01
		K-40	9.12E+01	3.09E+01	6.68E+00
Sample ID: 599980	Sample Dates: 10/3/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.85E+03	2.01E+02	1.82E+02
Sample ID: 602631	Sample Dates: 11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.92E+00	0.00E+00	1.92E+00
		Co-58	<2.82E+00	0.00E+00	2.82E+00
		Fe-59	<6.38E+00	0.00E+00	6.38E+00
		Co-60	<2.23E+00	0.00E+00	2.23E+00
		Zn-65	<5.07E+00	0.00E+00	5.07E+00
		Zr-95	<5.78E+00	0.00E+00	5.78E+00
		Nb-95	<2.91E+00	0.00E+00	2.91E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.75E+00	0.00E+00	2.75E+00
		Cs-137	<2.51E+00	0.00E+00	2.51E+00
		BaLa-140	<7.24E+00	0.00E+00	7.24E+00
		Be-7	<2.02E+01	0.00E+00	2.02E+01
		K-40	9.24E+01	3.11E+01	3.92E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 211 [INDICATOR - ESE @ 4.06 miles]

Sample ID: 583270	Sample Dates: 12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.78E+00	0.00E+00	3.78E+00
		Co-58	<3.62E+00	0.00E+00	3.62E+00
		Fe-59	<6.02E+00	0.00E+00	6.02E+00
		Co-60	<3.60E+00	0.00E+00	3.60E+00
		Zn-65	<7.39E+00	0.00E+00	7.39E+00
		Zr-95	<6.43E+00	0.00E+00	6.43E+00
		Nb-95	<6.71E+00	0.00E+00	6.71E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<5.07E+00	0.00E+00	5.07E+00
		Cs-137	<3.89E+00	0.00E+00	3.89E+00
		BaLa-140	<1.13E+01	0.00E+00	1.13E+01
		Be-7	<4.57E+01	0.00E+00	4.57E+01
		K-40	1.02E+02	5.56E+01	7.62E+01
Sample ID: 585464	Sample Dates: 1/24/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.92E+00	0.00E+00	3.92E+00
		Co-58	<3.96E+00	0.00E+00	3.96E+00
		Fe-59	<8.04E+00	0.00E+00	8.04E+00
		Co-60	<2.98E+00	0.00E+00	2.98E+00
		Zn-65	<5.46E+00	0.00E+00	5.46E+00
		Zr-95	<6.01E+00	0.00E+00	6.01E+00
		Nb-95	<4.42E+00	0.00E+00	4.42E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.41E+00	0.00E+00	3.41E+00
		Cs-137	<3.38E+00	0.00E+00	3.38E+00
		BaLa-140	<7.92E+00	0.00E+00	7.92E+00
		Be-7	<3.29E+01	0.00E+00	3.29E+01
		K-40	6.38E+01	3.54E+01	4.70E+01
Sample ID: 586783	Sample Dates: 2/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.83E+00	0.00E+00	2.83E+00
		Co-58	<3.89E+00	0.00E+00	3.89E+00
		Fe-59	<7.05E+00	0.00E+00	7.05E+00
		Co-60	<3.61E+00	0.00E+00	3.61E+00
		Zn-65	<7.29E+00	0.00E+00	7.29E+00
		Zr-95	<5.28E+00	0.00E+00	5.28E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.14E+00	0.00E+00	3.14E+00
		Cs-137	<2.88E+00	0.00E+00	2.88E+00
		BaLa-140	<6.51E+00	0.00E+00	6.51E+00
		Be-7	<2.40E+01	0.00E+00	2.40E+01
		K-40	8.89E+01	3.76E+01	4.52E+01
Sample ID: 585154	Sample Dates: 12/28/2022 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	6.03E+02	1.40E+02	2.08E+02
Sample ID: 587923	Sample Dates: 3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.48E+00	0.00E+00	3.48E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<8.19E+00	0.00E+00	8.19E+00
		Co-60	<3.04E+00	0.00E+00	3.04E+00
		Zn-65	<7.72E+00	0.00E+00	7.72E+00
		Zr-95	<6.14E+00	0.00E+00	6.14E+00
		Nb-95	<3.71E+00	0.00E+00	3.71E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<3.05E+00	0.00E+00	3.05E+00
		Cs-137	<2.68E+00	0.00E+00	2.68E+00
		BaLa-140	<7.39E+00	0.00E+00	7.39E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	9.66E+01	3.82E+01	4.35E+01
Sample ID: 589936	Sample Dates: 4/18/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.00E+00	0.00E+00	3.00E+00
		Co-58	<3.70E+00	0.00E+00	3.70E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 211 [INDICATOR - ESE @ 4.06 miles]

Sample ID: 589936	Sample Dates: 4/18/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Fe-59	<7.09E+00	0.00E+00	7.09E+00
		Co-60	<3.49E+00	0.00E+00	3.49E+00
		Zn-65	<6.13E+00	0.00E+00	6.13E+00
		Zr-95	<7.31E+00	0.00E+00	7.31E+00
		Nb-95	<5.18E+00	0.00E+00	5.18E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.23E+00	0.00E+00	3.23E+00
		Cs-137	<3.25E+00	0.00E+00	3.25E+00
		BaLa-140	<6.41E+00	0.00E+00	6.41E+00
Sample ID: 590798	Sample Dates: 5/16/2023 - 6/13/2023	Be-7	<2.73E+01	0.00E+00	2.73E+01
		K-40	6.02E+01	3.03E+01	3.91E+01
Sample ID: 589820	Sample Dates: 4/18/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.42E+00	0.00E+00	3.42E+00
		Co-58	<3.40E+00	0.00E+00	3.40E+00
		Fe-59	<5.83E+00	0.00E+00	5.83E+00
		Co-60	<3.64E+00	0.00E+00	3.64E+00
		Zn-65	<4.52E+00	0.00E+00	4.52E+00
		Zr-95	<6.26E+00	0.00E+00	6.26E+00
		Nb-95	<4.33E+00	0.00E+00	4.33E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<4.34E+00	0.00E+00	4.34E+00
Sample ID: 592006	Sample Dates: 6/13/2023 - 7/11/2023	Cs-137	<3.34E+00	0.00E+00	3.34E+00
		BaLa-140	<9.10E+00	0.00E+00	9.10E+00
		Be-7	<2.14E+01	0.00E+00	2.14E+01
		K-40	4.09E+01	3.19E+01	4.77E+01
Sample ID: 593342	Sample Dates: 7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	7.23E+02	1.34E+02	1.91E+02
Sample ID: 594895	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.11E+00	0.00E+00	4.11E+00
		Co-58	<3.93E+00	0.00E+00	3.93E+00
		Fe-59	<7.51E+00	0.00E+00	7.51E+00
		Co-60	<2.93E+00	0.00E+00	2.93E+00
		Zn-65	<7.53E+00	0.00E+00	7.53E+00
		Zr-95	<7.52E+00	0.00E+00	7.52E+00
		Nb-95	<4.89E+00	0.00E+00	4.89E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<3.41E+00	0.00E+00	3.41E+00
Sample ID: 593342	Sample Dates: 7/11/2023 - 8/8/2023	Cs-137	<2.99E+00	0.00E+00	2.99E+00
		BaLa-140	<8.63E+00	0.00E+00	8.63E+00
		Be-7	<2.66E+01	0.00E+00	2.66E+01
		K-40	<6.21E+01	0.00E+00	6.21E+01
Sample ID: 593342	Sample Dates: 7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.49E+00	0.00E+00	4.49E+00
		Co-58	<3.14E+00	0.00E+00	3.14E+00
		Fe-59	<6.82E+00	0.00E+00	6.82E+00
		Co-60	<3.83E+00	0.00E+00	3.83E+00
		Zn-65	<4.97E+00	0.00E+00	4.97E+00
		Zr-95	<8.27E+00	0.00E+00	8.27E+00
		Nb-95	<5.69E+00	0.00E+00	5.69E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.01E+00	0.00E+00	4.01E+00
Sample ID: 594895	Sample Dates: 8/8/2023 - 9/6/2023	Cs-137	<2.98E+00	0.00E+00	2.98E+00
		BaLa-140	<7.22E+00	0.00E+00	7.22E+00
		Be-7	<3.87E+01	0.00E+00	3.87E+01
		K-40	4.63E+01	3.80E+01	5.71E+01
Sample ID: 594895	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.53E+00	0.00E+00	2.53E+00
		Co-58	<2.76E+00	0.00E+00	2.76E+00
		Fe-59	<5.02E+00	0.00E+00	5.02E+00
		Co-60	<2.40E+00	0.00E+00	2.40E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 211 [INDICATOR - ESE @ 4.06 miles]

Sample ID: 594895	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zn-65	<6.10E+00	0.00E+00	6.10E+00
		Zr-95	<6.21E+00	0.00E+00	6.21E+00
		Nb-95	<3.50E+00	0.00E+00	3.50E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<2.87E+00	0.00E+00	2.87E+00
		Cs-137	<2.85E+00	0.00E+00	2.85E+00
		BaLa-140	<6.94E+00	0.00E+00	6.94E+00
		Be-7	<2.64E+01	0.00E+00	2.64E+01
Sample ID: 593695	Sample Dates: 7/11/2023 - 10/3/2023	K-40	8.23E+01	3.16E+01	3.94E+01
		Nuclide	Activity	2 Sigma Error	MDA
		H3SW	8.12E+02	1.40E+02	1.95E+02
Sample ID: 597208	Sample Dates: 9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.94E+00	0.00E+00	4.94E+00
		Co-58	<4.58E+00	0.00E+00	4.58E+00
		Fe-59	<7.41E+00	0.00E+00	7.41E+00
		Co-60	<5.28E+00	0.00E+00	5.28E+00
		Zn-65	<9.26E+00	0.00E+00	9.26E+00
		Zr-95	<8.77E+00	0.00E+00	8.77E+00
		Nb-95	<3.83E+00	0.00E+00	3.83E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.62E+00	0.00E+00	4.62E+00
		Cs-137	<4.68E+00	0.00E+00	4.68E+00
		BaLa-140	<7.70E+00	0.00E+00	7.70E+00
		Be-7	<4.35E+01	0.00E+00	4.35E+01
		K-40	<8.17E+01	0.00E+00	8.17E+01
Sample ID: 598968	Sample Dates: 10/3/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.29E+00	0.00E+00	4.29E+00
		Co-58	<3.65E+00	0.00E+00	3.65E+00
		Fe-59	<7.72E+00	0.00E+00	7.72E+00
		Co-60	<4.16E+00	0.00E+00	4.16E+00
		Zn-65	<9.94E+00	0.00E+00	9.94E+00
		Zr-95	<7.40E+00	0.00E+00	7.40E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<2.83E+00	0.00E+00	2.83E+00
		BaLa-140	<9.24E+00	0.00E+00	9.24E+00
		Be-7	<2.72E+01	0.00E+00	2.72E+01
		K-40	<6.01E+01	0.00E+00	6.01E+01
Sample ID: 601206	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.67E+00	0.00E+00	4.67E+00
		Co-58	<3.33E+00	0.00E+00	3.33E+00
		Fe-59	<7.47E+00	0.00E+00	7.47E+00
		Co-60	<3.83E+00	0.00E+00	3.83E+00
		Zn-65	<7.43E+00	0.00E+00	7.43E+00
		Zr-95	<6.21E+00	0.00E+00	6.21E+00
		Nb-95	<4.08E+00	0.00E+00	4.08E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.98E+00	0.00E+00	3.98E+00
		Cs-137	<2.94E+00	0.00E+00	2.94E+00
		BaLa-140	<9.59E+00	0.00E+00	9.59E+00
		Be-7	<3.67E+01	0.00E+00	3.67E+01
		K-40	8.78E+01	4.01E+01	4.96E+01
Sample ID: 599981	Sample Dates: 10/3/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	8.20E+02	1.32E+02	1.83E+02
Sample ID: 602632	Sample Dates: 11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.66E+00	0.00E+00	1.66E+00
		Co-58	<1.70E+00	0.00E+00	1.70E+00
		Fe-59	<4.48E+00	0.00E+00	4.48E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 211 [INDICATOR - ESE @ 4.06 miles]

Sample ID:	602632	Sample Dates:	11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<1.54E+00	0.00E+00	1.54E+00
				Zn-65	<3.61E+00	0.00E+00	3.61E+00
				Zr-95	<4.33E+00	0.00E+00	4.33E+00
				Nb-95	<2.76E+00	0.00E+00	2.76E+00
				I-131	<1.00E+01	0.00E+00	1.00E+01
				Cs-134	<1.79E+00	0.00E+00	1.79E+00
				Cs-137	<1.94E+00	0.00E+00	1.94E+00
				BaLa-140	<5.09E+00	0.00E+00	5.09E+00
				Be-7	<1.76E+01	0.00E+00	1.76E+01
				K-40	7.87E+01	2.24E+01	2.74E+01

Sample Point 263 [CONTROL - NNE @ 0.59 miles]

Sample ID:	583271	Sample Dates:	12/28/2022 - 1/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.58E+00	0.00E+00	3.58E+00
				Co-58	<3.65E+00	0.00E+00	3.65E+00
				Fe-59	<5.95E+00	0.00E+00	5.95E+00
				Co-60	<3.37E+00	0.00E+00	3.37E+00
				Zn-65	<7.46E+00	0.00E+00	7.46E+00
				Zr-95	<6.74E+00	0.00E+00	6.74E+00
				Nb-95	<3.69E+00	0.00E+00	3.69E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<4.51E+00	0.00E+00	4.51E+00
				Cs-137	<3.97E+00	0.00E+00	3.97E+00
				BaLa-140	<7.14E+00	0.00E+00	7.14E+00
				Be-7	<3.38E+01	0.00E+00	3.38E+01
				K-40	8.04E+01	3.78E+01	4.61E+01

Sample ID:	585465	Sample Dates:	1/24/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.99E+00	0.00E+00	2.99E+00
				Co-58	<3.60E+00	0.00E+00	3.60E+00
				Fe-59	<7.78E+00	0.00E+00	7.78E+00
				Co-60	<3.37E+00	0.00E+00	3.37E+00
				Zn-65	<5.76E+00	0.00E+00	5.76E+00
				Zr-95	<6.39E+00	0.00E+00	6.39E+00
				Nb-95	<4.17E+00	0.00E+00	4.17E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<2.62E+00	0.00E+00	2.62E+00
				Cs-137	<4.20E+00	0.00E+00	4.20E+00
				BaLa-140	<8.99E+00	0.00E+00	8.99E+00
				Be-7	<2.90E+01	0.00E+00	2.90E+01
				K-40	1.06E+02	3.74E+01	3.59E+01

Sample ID:	586784	Sample Dates:	2/21/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.63E+00	0.00E+00	3.63E+00
				Co-58	<4.01E+00	0.00E+00	4.01E+00
				Fe-59	<8.93E+00	0.00E+00	8.93E+00
				Co-60	<4.27E+00	0.00E+00	4.27E+00
				Zn-65	<5.54E+00	0.00E+00	5.54E+00
				Zr-95	<5.69E+00	0.00E+00	5.69E+00
				Nb-95	<6.52E+00	0.00E+00	6.52E+00
				I-131	<1.32E+01	0.00E+00	1.32E+01
				Cs-134	<3.78E+00	0.00E+00	3.78E+00
				Cs-137	<3.93E+00	0.00E+00	3.93E+00
				BaLa-140	<8.05E+00	0.00E+00	8.05E+00
				Be-7	<3.86E+01	0.00E+00	3.86E+01
				K-40	6.91E+01	4.26E+01	5.80E+01

Sample ID:	585155	Sample Dates:	12/28/2022 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	2.19E+02	1.28E+02	2.09E+02

Sample ID:	587924	Sample Dates:	3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.49E+00	0.00E+00	4.49E+00
				Co-58	<3.58E+00	0.00E+00	3.58E+00
				Fe-59	<9.14E+00	0.00E+00	9.14E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 263 [CONTROL - NNE @ 0.59 miles]

Sample ID: 587924	Sample Dates: 3/21/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<4.36E+00	0.00E+00	4.36E+00
		Zn-65	<5.67E+00	0.00E+00	5.67E+00
		Zr-95	<1.00E+01	0.00E+00	1.00E+01
		Nb-95	<5.93E+00	0.00E+00	5.93E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.88E+00	0.00E+00	3.88E+00
		Cs-137	<5.53E+00	0.00E+00	5.53E+00
		BaLa-140	<6.48E+00	0.00E+00	6.48E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
Sample ID: 589937	Sample Dates: 4/18/2023 - 5/16/2023	K-40	4.66E+01	4.20E+01	6.44E+01
		Mn-54	<3.73E+00	0.00E+00	3.73E+00
		Co-58	<4.80E+00	0.00E+00	4.80E+00
		Fe-59	<7.78E+00	0.00E+00	7.78E+00
		Co-60	<4.40E+00	0.00E+00	4.40E+00
		Zn-65	<6.38E+00	0.00E+00	6.38E+00
		Zr-95	<9.33E+00	0.00E+00	9.33E+00
		Nb-95	<5.62E+00	0.00E+00	5.62E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.69E+00	0.00E+00	4.69E+00
Sample ID: 590799	Sample Dates: 5/16/2023 - 6/13/2023	Cs-137	<2.71E+00	0.00E+00	2.71E+00
		BaLa-140	<7.61E+00	0.00E+00	7.61E+00
		Be-7	<3.66E+01	0.00E+00	3.66E+01
		K-40	8.63E+01	3.61E+01	3.83E+01
		Mn-54	<3.07E+00	0.00E+00	3.07E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<6.98E+00	0.00E+00	6.98E+00
		Co-60	<3.92E+00	0.00E+00	3.92E+00
		Zn-65	<7.51E+00	0.00E+00	7.51E+00
		Zr-95	<6.67E+00	0.00E+00	6.67E+00
Sample ID: 589821	Sample Dates: 4/18/2023 - 7/11/2023	Nb-95	<5.11E+00	0.00E+00	5.11E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<3.78E+00	0.00E+00	3.78E+00
		Cs-137	<3.32E+00	0.00E+00	3.32E+00
		BaLa-140	<7.18E+00	0.00E+00	7.18E+00
		Be-7	<3.16E+01	0.00E+00	3.16E+01
		K-40	3.65E+01	3.43E+01	5.39E+01
		H3SW	4.16E+02	1.25E+02	1.92E+02
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<4.07E+00	0.00E+00	4.07E+00
Sample ID: 592007	Sample Dates: 6/13/2023 - 7/11/2023	Fe-59	<6.50E+00	0.00E+00	6.50E+00
		Co-60	<3.83E+00	0.00E+00	3.83E+00
		Zn-65	<6.59E+00	0.00E+00	6.59E+00
		Zr-95	<6.52E+00	0.00E+00	6.52E+00
		Nb-95	<5.48E+00	0.00E+00	5.48E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<3.33E+00	0.00E+00	3.33E+00
		Cs-137	<3.08E+00	0.00E+00	3.08E+00
		BaLa-140	<1.28E+01	0.00E+00	1.28E+01
		Be-7	<3.46E+01	0.00E+00	3.46E+01
Sample ID: 593343	Sample Dates: 7/11/2023 - 8/8/2023	K-40	6.75E+01	3.53E+01	4.50E+01
		Mn-54	<4.13E+00	0.00E+00	4.13E+00
		Co-58	<3.62E+00	0.00E+00	3.62E+00
		Fe-59	<7.25E+00	0.00E+00	7.25E+00
		Co-60	<3.40E+00	0.00E+00	3.40E+00
		Zn-65	<5.30E+00	0.00E+00	5.30E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 263 [CONTROL - NNE @ 0.59 miles]

Sample ID: 593343	Sample Dates: 7/11/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zr-95	<5.25E+00	0.00E+00	5.25E+00
		Nb-95	<4.25E+00	0.00E+00	4.25E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.74E+00	0.00E+00	3.74E+00
		Cs-137	<3.95E+00	0.00E+00	3.95E+00
		BaLa-140	<7.70E+00	0.00E+00	7.70E+00
		Be-7	<3.05E+01	0.00E+00	3.05E+01
		K-40	9.74E+01	3.36E+01	3.32E+01
Sample ID: 594896	Sample Dates: 8/8/2023 - 9/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.11E+00	0.00E+00	2.11E+00
		Co-58	<2.14E+00	0.00E+00	2.14E+00
		Fe-59	<5.24E+00	0.00E+00	5.24E+00
		Co-60	<2.47E+00	0.00E+00	2.47E+00
		Zn-65	<4.00E+00	0.00E+00	4.00E+00
		Zr-95	<4.45E+00	0.00E+00	4.45E+00
		Nb-95	<3.34E+00	0.00E+00	3.34E+00
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<2.85E+00	0.00E+00	2.85E+00
		Cs-137	<2.55E+00	0.00E+00	2.55E+00
		BaLa-140	<5.74E+00	0.00E+00	5.74E+00
		Be-7	<2.59E+01	0.00E+00	2.59E+01
		K-40	8.03E+01	3.00E+01	3.93E+01
Sample ID: 593696	Sample Dates: 7/11/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	5.43E+02	1.31E+02	1.94E+02
Sample ID: 597209	Sample Dates: 9/6/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.90E+00	0.00E+00	3.90E+00
		Co-58	<3.80E+00	0.00E+00	3.80E+00
		Fe-59	<9.75E+00	0.00E+00	9.75E+00
		Co-60	<3.61E+00	0.00E+00	3.61E+00
		Zn-65	<8.06E+00	0.00E+00	8.06E+00
		Zr-95	<7.03E+00	0.00E+00	7.03E+00
		Nb-95	<5.40E+00	0.00E+00	5.40E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<3.83E+00	0.00E+00	3.83E+00
		Cs-137	<3.34E+00	0.00E+00	3.34E+00
		BaLa-140	<9.43E+00	0.00E+00	9.43E+00
		Be-7	<3.80E+01	0.00E+00	3.80E+01
		K-40	9.12E+01	4.54E+01	5.98E+01
Sample ID: 598969	Sample Dates: 10/3/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.34E+00	0.00E+00	3.34E+00
		Co-58	<3.28E+00	0.00E+00	3.28E+00
		Fe-59	<7.83E+00	0.00E+00	7.83E+00
		Co-60	<3.34E+00	0.00E+00	3.34E+00
		Zn-65	<6.14E+00	0.00E+00	6.14E+00
		Zr-95	<6.59E+00	0.00E+00	6.59E+00
		Nb-95	<4.06E+00	0.00E+00	4.06E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<3.90E+00	0.00E+00	3.90E+00
		Cs-137	<3.14E+00	0.00E+00	3.14E+00
		BaLa-140	<5.46E+00	0.00E+00	5.46E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	1.06E+02	3.28E+01	2.37E+01
Sample ID: 601207	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.83E+00	0.00E+00	4.83E+00
		Co-58	<5.12E+00	0.00E+00	5.12E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<4.29E+00	0.00E+00	4.29E+00
		Zn-65	<7.89E+00	0.00E+00	7.89E+00
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<5.95E+00	0.00E+00	5.95E+00

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 263 [CONTROL - NNE @ 0.59 miles]

Sample ID:	601207	Sample Dates:	10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.24E+01	0.00E+00	1.24E+01
				Cs-134	<5.36E+00	0.00E+00	5.36E+00
				Cs-137	<3.39E+00	0.00E+00	3.39E+00
				BaLa-140	<1.02E+01	0.00E+00	1.02E+01
				Be-7	<4.18E+01	0.00E+00	4.18E+01
				K-40	<8.33E+01	0.00E+00	8.33E+01
Sample ID:	599982	Sample Dates:	10/3/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	5.44E+02	1.23E+02	1.82E+02
Sample ID:	602633	Sample Dates:	11/28/2023 - 12/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.55E+00	0.00E+00	1.55E+00
				Co-58	<1.89E+00	0.00E+00	1.89E+00
				Fe-59	<4.26E+00	0.00E+00	4.26E+00
				Co-60	<1.84E+00	0.00E+00	1.84E+00
				Zn-65	<3.03E+00	0.00E+00	3.03E+00
				Zr-95	<3.33E+00	0.00E+00	3.33E+00
				Nb-95	<2.38E+00	0.00E+00	2.38E+00
				I-131	<1.14E+01	0.00E+00	1.14E+01
				Cs-134	<1.74E+00	0.00E+00	1.74E+00
				Cs-137	<1.76E+00	0.00E+00	1.76E+00
				BaLa-140	<5.05E+00	0.00E+00	5.05E+00
				Be-7	<2.15E+01	0.00E+00	2.15E+01
				K-40	9.36E+01	2.47E+01	2.93E+01

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

TLD RING TLD_INNER

Sample ID:	586315	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	17.98
Sample ID:	590910	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	17.88
Sample ID:	595302	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.74
Sample ID:	601935	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.79

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	586316	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.94
Sample ID:	590911	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.30
Sample ID:	595303	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.26
Sample ID:	601936	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	17.37

Sample Point 203 [INDICATOR - ESE @ 0.38 miles]

TLD RING TLD_INNER

Sample ID:	586317	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.58
Sample ID:	590912	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.70
Sample ID:	595304	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	19.38
Sample ID:	601937	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	18.51

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 204 [INDICATOR - SSW @ 0.48 miles]

TLD RING TLD_INNER

Sample ID:	586318	Sample Dates: 12/15/2022 - 3/16/2023	Nuclide mR/Std Qtr	Activity 16.85
Sample ID:	590913	Sample Dates: 3/16/2023 - 6/22/2023	Nuclide mR/Std Qtr	Activity 16.17
Sample ID:	595305	Sample Dates: 6/22/2023 - 9/21/2023	Nuclide mR/Std Qtr	Activity 14.70
Sample ID:	601938	Sample Dates: 9/21/2023 - 12/21/2023	Nuclide mR/Std Qtr	Activity 16.52

Sample Point 205 [INDICATOR - SW @ 0.5 miles]

TLD RING TLD_INNER

Sample ID:	586319	Sample Dates: 12/15/2022 - 3/16/2023	Nuclide mR/Std Qtr	Activity 21.45
Sample ID:	590914	Sample Dates: 3/16/2023 - 6/22/2023	Nuclide mR/Std Qtr	Activity 18.71
Sample ID:	595306	Sample Dates: 6/22/2023 - 9/21/2023	Nuclide mR/Std Qtr	Activity 18.52
Sample ID:	601939	Sample Dates: 9/21/2023 - 12/21/2023	Nuclide mR/Std Qtr	Activity 21.03

Sample Point 206 [INDICATOR - WNW @ 0.67 miles]

TLD RING TLD_INNER

Sample ID:	586320	Sample Dates: 12/15/2022 - 3/16/2023	Nuclide mR/Std Qtr	Activity 24.11
Sample ID:	590915	Sample Dates: 3/16/2023 - 6/22/2023	Nuclide mR/Std Qtr	Activity 20.44
Sample ID:	595307	Sample Dates: 6/22/2023 - 9/21/2023	Nuclide mR/Std Qtr	Activity 22.54
Sample ID:	601940	Sample Dates: 9/21/2023 - 12/21/2023	Nuclide mR/Std Qtr	Activity 22.37

Sample Point 207 [INDICATOR - NNW @ 0.95 miles]

TLD RING TLD_INNER

Sample ID:	586321	Sample Dates: 12/15/2022 - 3/16/2023	Nuclide mR/Std Qtr	Activity 21.96
Sample ID:	590916	Sample Dates: 3/16/2023 - 6/22/2023	Nuclide mR/Std Qtr	Activity 18.95
Sample ID:	595308	Sample Dates: 6/22/2023 - 9/21/2023	Nuclide mR/Std Qtr	Activity 20.54
Sample ID:	601941	Sample Dates: 9/21/2023 - 12/21/2023	Nuclide mR/Std Qtr	Activity 17.40

Sample Point 212 [INDICATOR - E @ 3.32 miles]

TLD RING TLD_SPEC

Sample ID:	586322	Sample Dates: 12/15/2022 - 3/16/2023	Nuclide mR/Std Qtr	Activity 17.78
Sample ID:	590917	Sample Dates: 3/16/2023 - 6/22/2023	Nuclide mR/Std Qtr	Activity 14.47
Sample ID:	595309	Sample Dates: 6/22/2023 - 9/21/2023	Nuclide mR/Std Qtr	Activity 17.15
Sample ID:	601942	Sample Dates: 9/21/2023 - 12/21/2023	Nuclide mR/Std Qtr	Activity 14.96

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 217 [CONTROL - SSE @ 10.3 miles]

TLD RING TLD_CTRL

Sample ID:	586323	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	11.59
Sample ID:	595310	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	10.95
Sample ID:	601943	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	11.31

Sample Point 222 [INDICATOR - N @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	586324	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	19.38
Sample ID:	590919	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.12
Sample ID:	595311	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	17.30
Sample ID:	601944	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.70

Sample Point 223 [INDICATOR - E @ 0.57 miles]

TLD RING TLD_INNER

Sample ID:	586325	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	22.19
Sample ID:	590920	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	19.52
Sample ID:	595312	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	21.07
Sample ID:	601945	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	21.45

Sample Point 225 [INDICATOR - SE @ 0.68 miles]

TLD RING TLD_INNER

Sample ID:	586326	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	21.40
Sample ID:	590921	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	20.37
Sample ID:	595313	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	18.92
Sample ID:	601946	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	20.37

Sample Point 226 [INDICATOR - S @ 0.48 miles]

TLD RING TLD_INNER

Sample ID:	590922	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	18.14
Sample ID:	595314	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	19.17
Sample ID:	601947	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	18.60

Sample Point 227 [INDICATOR - WSW @ 0.52 miles]

TLD RING TLD_INNER

Sample ID:	586328	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.31
Sample ID:	590923	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.70

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 227 [INDICATOR - WSW @ 0.52 miles]

TLD RING TLD_INNER

Sample ID:	595315	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	17.47

Sample ID:	601948	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	17.16

Sample Point 228 [INDICATOR - W @ 0.61 miles]

TLD RING TLD_INNER

Sample ID:	586329	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	20.53

Sample ID:	590924	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.67

Sample ID:	595316	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	18.99

Sample ID:	601949	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	17.99

Sample Point 229 [INDICATOR - NW @ 0.84 miles]

TLD RING TLD_INNER

Sample ID:	586330	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	21.52

Sample ID:	590925	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	20.78

Sample ID:	595317	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	22.45

Sample ID:	601950	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	21.86

Sample Point 230 [INDICATOR - N @ 4.37 miles]

TLD RING TLD_OUTER

Sample ID:	586331	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	15.99

Sample ID:	590926	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	13.33

Sample ID:	595318	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	13.40

Sample ID:	601951	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	12.65

Sample Point 231 [INDICATOR - NNE @ 4.21 miles]

TLD RING TLD_OUTER

Sample ID:	586332	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.33

Sample ID:	590927	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	17.25

Sample ID:	595319	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	18.49

Sample ID:	601952	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	18.41

Sample Point 232 [INDICATOR - NE @ 4.18 miles]

TLD RING TLD_OUTER

Sample ID:	586333	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	24.63

Sample ID:	590928	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	19.77

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 232 [INDICATOR - NE @ 4.18 miles]

TLD RING TLD_OUTER

Sample ID:	595320	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	21.45

Sample ID:	601953	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	21.11

Sample Point 233 [INDICATOR - ENE @ 3.95 miles]

TLD RING TLD_OUTER

Sample ID:	586334	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	14.51

Sample ID:	590929	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	14.25

Sample ID:	595321	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	13.90

Sample ID:	601954	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	14.61

Sample Point 234 [INDICATOR - E @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	586335	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.81

Sample ID:	590930	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.60

Sample ID:	595322	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	17.55

Sample ID:	601955	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	17.77

Sample Point 235 [INDICATOR - ESE @ 4.07 miles]

TLD RING TLD_OUTER

Sample ID:	586336	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	15.59

Sample ID:	590931	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	14.38

Sample ID:	595323	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	15.56

Sample ID:	601956	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	15.77

Sample Point 237 [INDICATOR - SSE @ 4.75 miles]

TLD RING TLD_OUTER

Sample ID:	586337	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	23.95

Sample ID:	590932	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	21.17

Sample ID:	595324	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	20.38

Sample ID:	601957	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	22.62

Sample Point 238 [INDICATOR - S @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	586338	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.66

Sample ID:	590933	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.65

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 238 [INDICATOR - S @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	595325	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.59

Sample ID:	601958	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	18.20

Sample Point 239 [INDICATOR - SSW @ 4.49 miles]

TLD RING TLD_OUTER

Sample ID:	586339	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	20.56

Sample ID:	590934	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.81

Sample ID:	595326	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	17.10

Sample ID:	601959	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	18.21

Sample Point 240 [INDICATOR - SW @ 4.07 miles]

TLD RING TLD_OUTER

Sample ID:	586340	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	14.63

Sample ID:	590935	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	11.36

Sample ID:	595327	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	12.73

Sample ID:	601960	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	13.17

Sample Point 241 [INDICATOR - WSW @ 4.58 miles]

TLD RING TLD_OUTER

Sample ID:	586341	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	14.92

Sample ID:	590936	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	14.22

Sample ID:	595328	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	13.15

Sample ID:	601961	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	13.80

Sample Point 242 [INDICATOR - W @ 4.56 miles]

TLD RING TLD_OUTER

Sample ID:	586342	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	15.89

Sample ID:	590937	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.22

Sample ID:	595329	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	15.71

Sample ID:	601962	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.35

Sample Point 243 [INDICATOR - WNW @ 4.39 miles]

TLD RING TLD_OUTER

Sample ID:	586343	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.85

Sample ID:	590938	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.58

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 243 [INDICATOR - WNW @ 4.39 miles]

TLD RING TLD_OUTER

Sample ID:	595330	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	15.88

Sample ID:	601963	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.80

Sample Point 244 [INDICATOR - NW @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	586344	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	21.11

Sample ID:	590939	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	18.56

Sample ID:	595331	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	19.22

Sample ID:	601964	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	19.88

Sample Point 245 [INDICATOR - NNW @ 4.01 miles]

TLD RING TLD_OUTER

Sample ID:	586345	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	17.66

Sample ID:	590940	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.52

Sample ID:	595332	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	15.30

Sample ID:	601965	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	15.13

Sample Point 246 [INDICATOR - ENE @ 7.87 miles]

TLD RING TLD_SPEC

Sample ID:	586346	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	16.19

Sample ID:	590941	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	13.13

Sample ID:	595333	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	13.51

Sample ID:	601966	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	15.47

Sample Point 247 [CONTROL - ESE @ 7.33 miles]

TLD RING TLD_CTRL

Sample ID:	586347	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	14.61

Sample ID:	590942	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	13.59

Sample ID:	595334	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	12.89

Sample ID:	601967	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	12.74

Sample Point 248 [INDICATOR - S @ 6.54 miles]

TLD RING TLD_SPEC

Sample ID:	586348	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	16.50

Sample ID:	590943	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	13.85

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 248 [INDICATOR - S @ 6.54 miles]

TLD RING TLD_SPEC

Sample ID:	595335	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	13.10
Sample ID:	601968	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	13.66

Sample Point 249 [INDICATOR - S @ 7.17 miles]

TLD RING TLD_SPEC

Sample ID:	586349	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.27
Sample ID:	590944	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	16.22
Sample ID:	595336	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.82
Sample ID:	601969	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.35

Sample Point 250 [INDICATOR - WSW @ 10.4 miles]

TLD RING TLD_SPEC

Sample ID:	586350	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	17.15
Sample ID:	590945	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	15.94
Sample ID:	595337	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.99
Sample ID:	601970	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.55

Sample Point 251 [CONTROL - WNW @ 9.72 miles]

TLD RING TLD_CTRL

Sample ID:	586351	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	18.70
Sample ID:	590946	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	18.01
Sample ID:	595338	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	16.28
Sample ID:	601971	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	16.32

Sample Point 255 [INDICATOR - ENE @ 0.61 miles]

TLD RING TLD_INNER

Sample ID:	586352	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	21.49
Sample ID:	590947	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	20.22
Sample ID:	595339	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	21.15
Sample ID:	601972	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	21.92

Sample Point 256 [INDICATOR - SSE @ 0.58 miles]

TLD RING TLD_INNER

Sample ID:	586353	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	22.44
Sample ID:	590948	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	18.83

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 256 [INDICATOR - SSE @ 0.58 miles]

TLD RING TLD_INNER

Sample ID:	595340	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	18.71
Sample ID:	601973	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	21.20

Sample Point 258 [INDICATOR - W @ 9.84 miles]

TLD RING TLD_SPEC

Sample ID:	586354	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	21.77
Sample ID:	590949	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	19.61
Sample ID:	595341	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	18.74
Sample ID:	601974	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	19.48

Sample Point 264 [INDICATOR - SE @ 4.32 miles]

TLD RING TLD_OUTER

Sample ID:	586355	Sample Dates:	12/15/2022 - 3/16/2023	Nuclide	Activity
				mR/Std Qtr	27.47
Sample ID:	590950	Sample Dates:	3/16/2023 - 6/22/2023	Nuclide	Activity
				mR/Std Qtr	27.60
Sample ID:	595342	Sample Dates:	6/22/2023 - 9/21/2023	Nuclide	Activity
				mR/Std Qtr	25.50
Sample ID:	601975	Sample Dates:	9/21/2023 - 12/21/2023	Nuclide	Activity
				mR/Std Qtr	27.64

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	582512	Sample Dates:	1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.01E+01	0.00E+00	4.01E+01
					Co-58	<3.50E+01	0.00E+00	3.50E+01
					Fe-59	<6.08E+01	0.00E+00	6.08E+01
					Co-60	<3.25E+01	0.00E+00	3.25E+01
					Zn-65	<5.66E+01	0.00E+00	5.66E+01
					Zr-95	<5.30E+01	0.00E+00	5.30E+01
					Nb-95	<3.17E+01	0.00E+00	3.17E+01
					I-131	<2.97E+01	0.00E+00	2.97E+01
					Cs-134	<3.86E+01	0.00E+00	3.86E+01
					Cs-137	<3.43E+01	0.00E+00	3.43E+01
					BaLa-140	<3.38E+01	0.00E+00	3.38E+01
					Be-7	1.26E+03	3.65E+02	4.56E+02
					K-40	3.25E+03	6.94E+02	5.54E+02
Sample ID:	583600	Sample Dates:	2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.91E+01	0.00E+00	1.91E+01
					Co-58	<1.58E+01	0.00E+00	1.58E+01
					Fe-59	<3.35E+01	0.00E+00	3.35E+01
					Co-60	<1.58E+01	0.00E+00	1.58E+01
					Zn-65	<3.51E+01	0.00E+00	3.51E+01
					Zr-95	<3.04E+01	0.00E+00	3.04E+01
					Nb-95	<1.66E+01	0.00E+00	1.66E+01
					I-131	<1.45E+01	0.00E+00	1.45E+01
					Cs-134	<2.62E+01	0.00E+00	2.62E+01
					Cs-137	<1.31E+01	0.00E+00	1.31E+01
					BaLa-140	<1.88E+01	0.00E+00	1.88E+01
					Be-7	2.19E+03	2.95E+02	2.03E+02
					K-40	3.36E+03	4.64E+02	1.96E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID: 585713	Sample Dates: 3/7/2023 - 3/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.65E+01	0.00E+00	1.65E+01
			Co-58	<1.50E+01	0.00E+00	1.50E+01
			Fe-59	<3.28E+01	0.00E+00	3.28E+01
			Co-60	<1.66E+01	0.00E+00	1.66E+01
			Zn-65	<3.78E+01	0.00E+00	3.78E+01
			Zr-95	<2.65E+01	0.00E+00	2.65E+01
			Nb-95	<1.83E+01	0.00E+00	1.83E+01
			I-131	<1.50E+01	0.00E+00	1.50E+01
			Cs-134	<1.91E+01	0.00E+00	1.91E+01
			Cs-137	<1.93E+01	0.00E+00	1.93E+01
			BaLa-140	<1.79E+01	0.00E+00	1.79E+01
			Be-7	2.03E+03	2.73E+02	1.81E+02
			K-40	4.74E+03	5.85E+02	2.53E+02
Sample ID: 587152	Sample Dates: 4/4/2023 - 4/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.43E+01	0.00E+00	1.43E+01
			Co-58	<1.47E+01	0.00E+00	1.47E+01
			Fe-59	<2.66E+01	0.00E+00	2.66E+01
			Co-60	<1.67E+01	0.00E+00	1.67E+01
			Zn-65	<3.17E+01	0.00E+00	3.17E+01
			Zr-95	<2.44E+01	0.00E+00	2.44E+01
			Nb-95	<1.64E+01	0.00E+00	1.64E+01
			I-131	<1.21E+01	0.00E+00	1.21E+01
			Cs-134	<1.44E+01	0.00E+00	1.44E+01
			Cs-137	<1.44E+01	0.00E+00	1.44E+01
			BaLa-140	<1.66E+01	0.00E+00	1.66E+01
			Be-7	1.40E+03	2.16E+02	1.84E+02
			K-40	4.61E+03	5.69E+02	2.91E+02
Sample ID: 588563	Sample Dates: 5/2/2023 - 5/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.88E+01	0.00E+00	1.88E+01
			Co-58	<1.70E+01	0.00E+00	1.70E+01
			Fe-59	<3.96E+01	0.00E+00	3.96E+01
			Co-60	<1.71E+01	0.00E+00	1.71E+01
			Zn-65	<3.86E+01	0.00E+00	3.86E+01
			Zr-95	<3.79E+01	0.00E+00	3.79E+01
			Nb-95	<2.05E+01	0.00E+00	2.05E+01
			I-131	<1.63E+01	0.00E+00	1.63E+01
			Cs-134	<2.11E+01	0.00E+00	2.11E+01
			Cs-137	<1.98E+01	0.00E+00	1.98E+01
			BaLa-140	<1.92E+01	0.00E+00	1.92E+01
			Be-7	1.14E+03	2.31E+02	2.51E+02
			K-40	4.69E+03	6.53E+02	4.38E+02
Sample ID: 590329	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.46E+01	0.00E+00	1.46E+01
			Co-58	<1.34E+01	0.00E+00	1.34E+01
			Fe-59	<3.24E+01	0.00E+00	3.24E+01
			Co-60	<1.37E+01	0.00E+00	1.37E+01
			Zn-65	<3.58E+01	0.00E+00	3.58E+01
			Zr-95	<2.17E+01	0.00E+00	2.17E+01
			Nb-95	<1.49E+01	0.00E+00	1.49E+01
			I-131	<1.35E+01	0.00E+00	1.35E+01
			Cs-134	<1.59E+01	0.00E+00	1.59E+01
			Cs-137	<1.47E+01	0.00E+00	1.47E+01
			BaLa-140	<7.70E+00	0.00E+00	7.70E+00
			Be-7	7.45E+02	1.54E+02	1.66E+02
			K-40	4.12E+03	5.07E+02	1.65E+02
Sample ID: 591455	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.58E+01	0.00E+00	3.58E+01
			Co-58	<3.42E+01	0.00E+00	3.42E+01
			Fe-59	<6.68E+01	0.00E+00	6.68E+01
			Co-60	<4.03E+01	0.00E+00	4.03E+01
			Zn-65	<7.05E+01	0.00E+00	7.05E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID: 591455	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Zr-95	<5.42E+01	0.00E+00	5.42E+01
			Nb-95	<3.94E+01	0.00E+00	3.94E+01
			I-131	<3.37E+01	0.00E+00	3.37E+01
			Cs-134	<4.01E+01	0.00E+00	4.01E+01
			Cs-137	<4.22E+01	0.00E+00	4.22E+01
			BaLa-140	<4.28E+01	0.00E+00	4.28E+01
			Be-7	4.58E+02	3.45E+02	5.46E+02
			K-40	4.69E+03	8.47E+02	6.63E+02
Sample ID: 592499	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.64E+01	0.00E+00	3.64E+01
			Co-58	<4.36E+01	0.00E+00	4.36E+01
			Fe-59	<5.80E+01	0.00E+00	5.80E+01
			Co-60	<2.97E+01	0.00E+00	2.97E+01
			Zn-65	<7.58E+01	0.00E+00	7.58E+01
			Zr-95	<7.93E+01	0.00E+00	7.93E+01
			Nb-95	<4.19E+01	0.00E+00	4.19E+01
			I-131	<3.29E+01	0.00E+00	3.29E+01
			Cs-134	<4.69E+01	0.00E+00	4.69E+01
			Cs-137	<3.81E+01	0.00E+00	3.81E+01
			BaLa-140	<1.38E+01	0.00E+00	1.38E+01
			Be-7	7.28E+02	3.29E+02	4.28E+02
			K-40	3.89E+03	8.57E+02	1.10E+02
Sample ID: 594032	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.01E+01	0.00E+00	3.01E+01
			Co-58	<2.96E+01	0.00E+00	2.96E+01
			Fe-59	<6.24E+01	0.00E+00	6.24E+01
			Co-60	<2.99E+01	0.00E+00	2.99E+01
			Zn-65	<6.59E+01	0.00E+00	6.59E+01
			Zr-95	<5.60E+01	0.00E+00	5.60E+01
			Nb-95	<3.26E+01	0.00E+00	3.26E+01
			I-131	<4.33E+01	0.00E+00	4.33E+01
			Cs-134	<4.22E+01	0.00E+00	4.22E+01
			Cs-137	<3.81E+01	0.00E+00	3.81E+01
			BaLa-140	<3.86E+01	0.00E+00	3.86E+01
			Be-7	7.24E+02	3.11E+02	4.34E+02
			K-40	4.33E+03	8.31E+02	6.69E+02
Sample ID: 595794	Sample Dates: 10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.58E+01	0.00E+00	4.58E+01
			Co-58	<4.29E+01	0.00E+00	4.29E+01
			Fe-59	<7.97E+01	0.00E+00	7.97E+01
			Co-60	<4.82E+01	0.00E+00	4.82E+01
			Zn-65	<8.89E+01	0.00E+00	8.89E+01
			Zr-95	<6.05E+01	0.00E+00	6.05E+01
			Nb-95	<4.42E+01	0.00E+00	4.42E+01
			I-131	<3.18E+01	0.00E+00	3.18E+01
			Cs-134	<5.14E+01	0.00E+00	5.14E+01
			Cs-137	<4.04E+01	0.00E+00	4.04E+01
			BaLa-140	<3.95E+01	0.00E+00	3.95E+01
			Be-7	1.55E+03	3.71E+02	3.34E+02
			K-40	5.18E+03	9.61E+02	5.35E+02
Sample ID: 598069	Sample Dates: 11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.80E+01	0.00E+00	2.80E+01
			Co-58	<2.61E+01	0.00E+00	2.61E+01
			Fe-59	<4.15E+01	0.00E+00	4.15E+01
			Co-60	<2.42E+01	0.00E+00	2.42E+01
			Zn-65	<4.97E+01	0.00E+00	4.97E+01
			Zr-95	<2.89E+01	0.00E+00	2.89E+01
			Nb-95	<2.24E+01	0.00E+00	2.24E+01
			I-131	<2.62E+01	0.00E+00	2.62E+01
			Cs-134	<3.67E+01	0.00E+00	3.67E+01
			Cs-137	<2.02E+01	0.00E+00	2.02E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 200 [INDICATOR - NNE @ 0.63 miles]

Sample ID:	598069	Sample Dates:	11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					BaLa-140	<1.98E+01	0.00E+00	1.98E+01
					Be-7	5.07E+02	2.05E+02	2.69E+02
					K-40	4.97E+03	7.74E+02	3.36E+02

Sample ID:	600265	Sample Dates:	12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.08E+01	0.00E+00	2.08E+01
					Co-58	<2.03E+01	0.00E+00	2.03E+01
					Fe-59	<4.45E+01	0.00E+00	4.45E+01
					Co-60	<2.05E+01	0.00E+00	2.05E+01
					Zn-65	<4.72E+01	0.00E+00	4.72E+01
					Zr-95	<2.86E+01	0.00E+00	2.86E+01
					Nb-95	<2.11E+01	0.00E+00	2.11E+01
					I-131	<1.93E+01	0.00E+00	1.93E+01
					Cs-134	<2.63E+01	0.00E+00	2.63E+01
					Cs-137	<1.69E+01	0.00E+00	1.69E+01
					BaLa-140	<2.16E+01	0.00E+00	2.16E+01
					Be-7	9.80E+02	2.03E+02	2.12E+02
					K-40	4.60E+03	6.00E+02	1.95E+02

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	582513	Sample Dates:	1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.30E+01	0.00E+00	3.30E+01
					Co-58	<3.59E+01	0.00E+00	3.59E+01
					Fe-59	<7.81E+01	0.00E+00	7.81E+01
					Co-60	<4.28E+01	0.00E+00	4.28E+01
					Zn-65	<8.80E+01	0.00E+00	8.80E+01
					Zr-95	<6.21E+01	0.00E+00	6.21E+01
					Nb-95	<3.60E+01	0.00E+00	3.60E+01
					I-131	<2.69E+01	0.00E+00	2.69E+01
					Cs-134	<4.40E+01	0.00E+00	4.40E+01
					Cs-137	<5.05E+01	0.00E+00	5.05E+01
					BaLa-140	<2.84E+01	0.00E+00	2.84E+01
					Be-7	2.54E+03	5.04E+02	4.68E+02
					K-40	3.79E+03	7.82E+02	4.81E+02

Sample ID:	583601	Sample Dates:	2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.91E+01	0.00E+00	1.91E+01
					Co-58	<1.53E+01	0.00E+00	1.53E+01
					Fe-59	<3.48E+01	0.00E+00	3.48E+01
					Co-60	<1.44E+01	0.00E+00	1.44E+01
					Zn-65	<3.75E+01	0.00E+00	3.75E+01
					Zr-95	<2.87E+01	0.00E+00	2.87E+01
					Nb-95	<1.89E+01	0.00E+00	1.89E+01
					I-131	<1.54E+01	0.00E+00	1.54E+01
					Cs-134	<1.99E+01	0.00E+00	1.99E+01
					Cs-137	<1.88E+01	0.00E+00	1.88E+01
					BaLa-140	<1.12E+01	0.00E+00	1.12E+01
					Be-7	1.43E+03	2.28E+02	1.97E+02
					K-40	2.90E+03	4.33E+02	2.56E+02

Sample ID:	585714	Sample Dates:	3/7/2023 - 3/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.90E+01	0.00E+00	1.90E+01
					Co-58	<1.44E+01	0.00E+00	1.44E+01
					Fe-59	<3.17E+01	0.00E+00	3.17E+01
					Co-60	<2.06E+01	0.00E+00	2.06E+01
					Zn-65	<4.36E+01	0.00E+00	4.36E+01
					Zr-95	<3.06E+01	0.00E+00	3.06E+01
					Nb-95	<1.86E+01	0.00E+00	1.86E+01
					I-131	<1.60E+01	0.00E+00	1.60E+01
					Cs-134	<2.04E+01	0.00E+00	2.04E+01
					Cs-137	<1.77E+01	0.00E+00	1.77E+01
					BaLa-140	<1.31E+01	0.00E+00	1.31E+01
					Be-7	1.72E+03	2.62E+02	2.19E+02
					K-40	3.39E+03	4.87E+02	3.17E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID: 587153	Sample Dates: 4/4/2023 - 4/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.64E+01	0.00E+00	1.64E+01
			Co-58	<1.74E+01	0.00E+00	1.74E+01
			Fe-59	<3.50E+01	0.00E+00	3.50E+01
			Co-60	<1.93E+01	0.00E+00	1.93E+01
			Zn-65	<3.84E+01	0.00E+00	3.84E+01
			Zr-95	<2.88E+01	0.00E+00	2.88E+01
			Nb-95	<1.67E+01	0.00E+00	1.67E+01
			I-131	<1.63E+01	0.00E+00	1.63E+01
			Cs-134	<1.75E+01	0.00E+00	1.75E+01
			Cs-137	<2.20E+01	0.00E+00	2.20E+01
			BaLa-140	<1.60E+01	0.00E+00	1.60E+01
			Be-7	3.93E+02	1.55E+02	2.18E+02
			K-40	3.63E+03	5.16E+02	2.69E+02
Sample ID: 588564	Sample Dates: 5/2/2023 - 5/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.07E+01	0.00E+00	2.07E+01
			Co-58	<1.79E+01	0.00E+00	1.79E+01
			Fe-59	<3.61E+01	0.00E+00	3.61E+01
			Co-60	<1.80E+01	0.00E+00	1.80E+01
			Zn-65	<4.07E+01	0.00E+00	4.07E+01
			Zr-95	<3.18E+01	0.00E+00	3.18E+01
			Nb-95	<2.08E+01	0.00E+00	2.08E+01
			I-131	<2.01E+01	0.00E+00	2.01E+01
			Cs-134	<2.19E+01	0.00E+00	2.19E+01
			Cs-137	<2.23E+01	0.00E+00	2.23E+01
			BaLa-140	<1.31E+01	0.00E+00	1.31E+01
			Be-7	9.70E+02	2.07E+02	2.50E+02
			K-40	4.99E+03	5.98E+02	2.55E+02
Sample ID: 590330	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.81E+01	0.00E+00	1.81E+01
			Co-58	<1.64E+01	0.00E+00	1.64E+01
			Fe-59	<3.42E+01	0.00E+00	3.42E+01
			Co-60	<2.27E+01	0.00E+00	2.27E+01
			Zn-65	<4.07E+01	0.00E+00	4.07E+01
			Zr-95	<2.91E+01	0.00E+00	2.91E+01
			Nb-95	<1.77E+01	0.00E+00	1.77E+01
			I-131	<1.76E+01	0.00E+00	1.76E+01
			Cs-134	<1.81E+01	0.00E+00	1.81E+01
			Cs-137	<2.10E+01	0.00E+00	2.10E+01
			BaLa-140	<2.33E+01	0.00E+00	2.33E+01
			Be-7	1.39E+03	2.32E+02	1.97E+02
			K-40	3.18E+03	4.91E+02	3.29E+02
Sample ID: 591456	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.96E+01	0.00E+00	2.96E+01
			Co-58	<2.19E+01	0.00E+00	2.19E+01
			Fe-59	<5.94E+01	0.00E+00	5.94E+01
			Co-60	<2.29E+01	0.00E+00	2.29E+01
			Zn-65	<5.53E+01	0.00E+00	5.53E+01
			Zr-95	<5.66E+01	0.00E+00	5.66E+01
			Nb-95	<2.48E+01	0.00E+00	2.48E+01
			I-131	<2.66E+01	0.00E+00	2.66E+01
			Cs-134	<2.95E+01	0.00E+00	2.95E+01
			Cs-137	4.32E+01	2.58E+01	3.83E+01
			BaLa-140	<3.01E+01	0.00E+00	3.01E+01
			Be-7	9.87E+02	2.55E+02	3.01E+02
			K-40	5.10E+03	7.55E+02	4.56E+02
Sample ID: 592500	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.25E+01	0.00E+00	4.25E+01
			Co-58	<3.56E+01	0.00E+00	3.56E+01
			Fe-59	<7.51E+01	0.00E+00	7.51E+01
			Co-60	<3.45E+01	0.00E+00	3.45E+01
			Zn-65	<9.11E+01	0.00E+00	9.11E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg
Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID: 592500	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Zr-95	<6.93E+01	0.00E+00	6.93E+01
			Nb-95	<4.04E+01	0.00E+00	4.04E+01
			I-131	<4.26E+01	0.00E+00	4.26E+01
			Cs-134	<4.99E+01	0.00E+00	4.99E+01
			Cs-137	<5.69E+01	0.00E+00	5.69E+01
			BaLa-140	<3.46E+01	0.00E+00	3.46E+01
			Be-7	1.49E+03	4.49E+02	5.36E+02
			K-40	3.94E+03	9.09E+02	7.04E+02
Sample ID: 594033	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.33E+01	0.00E+00	3.33E+01
			Co-58	<2.96E+01	0.00E+00	2.96E+01
			Fe-59	<5.80E+01	0.00E+00	5.80E+01
			Co-60	<3.07E+01	0.00E+00	3.07E+01
			Zn-65	<6.12E+01	0.00E+00	6.12E+01
			Zr-95	<4.75E+01	0.00E+00	4.75E+01
			Nb-95	<3.71E+01	0.00E+00	3.71E+01
			I-131	<4.81E+01	0.00E+00	4.81E+01
			Cs-134	<3.37E+01	0.00E+00	3.37E+01
			Cs-137	<3.30E+01	0.00E+00	3.30E+01
			BaLa-140	<4.63E+01	0.00E+00	4.63E+01
			Be-7	2.06E+03	4.07E+02	4.38E+02
			K-40	4.23E+03	6.84E+02	3.59E+02
Sample ID: 595795	Sample Dates: 10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.22E+01	0.00E+00	2.22E+01
			Co-58	<2.55E+01	0.00E+00	2.55E+01
			Fe-59	<5.01E+01	0.00E+00	5.01E+01
			Co-60	<3.15E+01	0.00E+00	3.15E+01
			Zn-65	<5.20E+01	0.00E+00	5.20E+01
			Zr-95	<4.17E+01	0.00E+00	4.17E+01
			Nb-95	<2.28E+01	0.00E+00	2.28E+01
			I-131	<2.41E+01	0.00E+00	2.41E+01
			Cs-134	<2.55E+01	0.00E+00	2.55E+01
			Cs-137	<2.36E+01	0.00E+00	2.36E+01
			BaLa-140	<5.01E+00	0.00E+00	5.01E+00
			Be-7	1.01E+03	3.97E+02	2.24E+02
			K-40	3.27E+03	5.30E+02	2.66E+02
Sample ID: 598070	Sample Dates: 11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.16E+01	0.00E+00	3.16E+01
			Co-58	<3.46E+01	0.00E+00	3.46E+01
			Fe-59	<7.91E+01	0.00E+00	7.91E+01
			Co-60	<4.09E+01	0.00E+00	4.09E+01
			Zn-65	<7.13E+01	0.00E+00	7.13E+01
			Zr-95	<5.99E+01	0.00E+00	5.99E+01
			Nb-95	<3.63E+01	0.00E+00	3.63E+01
			I-131	<2.89E+01	0.00E+00	2.89E+01
			Cs-134	<3.72E+01	0.00E+00	3.72E+01
			Cs-137	<4.73E+01	0.00E+00	4.73E+01
			BaLa-140	<4.18E+01	0.00E+00	4.18E+01
			Be-7	7.60E+02	2.87E+02	3.63E+02
			K-40	4.61E+03	8.48E+02	4.33E+02
Sample ID: 600266	Sample Dates: 12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.15E+01	0.00E+00	2.15E+01
			Co-58	<1.80E+01	0.00E+00	1.80E+01
			Fe-59	<4.09E+01	0.00E+00	4.09E+01
			Co-60	<2.25E+01	0.00E+00	2.25E+01
			Zn-65	<4.49E+01	0.00E+00	4.49E+01
			Zr-95	<2.58E+01	0.00E+00	2.58E+01
			Nb-95	<1.65E+01	0.00E+00	1.65E+01
			I-131	<1.79E+01	0.00E+00	1.79E+01
			Cs-134	<2.37E+01	0.00E+00	2.37E+01
			Cs-137	<2.11E+01	0.00E+00	2.11E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 201 [INDICATOR - NE @ 0.53 miles]

Sample ID:	600266	Sample Dates:	12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					BaLa-140	<1.87E+01	0.00E+00	1.87E+01
					Be-7	1.03E+03	1.99E+02	1.90E+02
					K-40	3.85E+03	5.57E+02	3.42E+02

Sample Point 222 [INDICATOR - N @ 0.7 miles]

Sample ID:	582514	Sample Dates:	1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.55E+01	0.00E+00	5.55E+01
					Co-58	<4.49E+01	0.00E+00	4.49E+01
					Fe-59	<8.26E+01	0.00E+00	8.26E+01
					Co-60	<4.07E+01	0.00E+00	4.07E+01
					Zn-65	<1.28E+02	0.00E+00	1.28E+02
					Zr-95	<8.10E+01	0.00E+00	8.10E+01
					Nb-95	<4.83E+01	0.00E+00	4.83E+01
					I-131	<4.72E+01	0.00E+00	4.72E+01
					Cs-134	<5.31E+01	0.00E+00	5.31E+01
					Cs-137	<4.22E+01	0.00E+00	4.22E+01
					BaLa-140	<8.00E+01	0.00E+00	8.00E+01
					Be-7	1.16E+03	4.62E+02	6.30E+02
					K-40	2.87E+03	8.81E+02	9.83E+02

Sample ID:	583602	Sample Dates:	2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.08E+01	0.00E+00	2.08E+01
					Co-58	<1.93E+01	0.00E+00	1.93E+01
					Fe-59	<3.22E+01	0.00E+00	3.22E+01
					Co-60	<1.79E+01	0.00E+00	1.79E+01
					Zn-65	<4.49E+01	0.00E+00	4.49E+01
					Zr-95	<2.97E+01	0.00E+00	2.97E+01
					Nb-95	<3.19E+01	0.00E+00	3.19E+01
					I-131	<1.68E+01	0.00E+00	1.68E+01
					Cs-134	<2.27E+01	0.00E+00	2.27E+01
					Cs-137	<1.79E+01	0.00E+00	1.79E+01
					BaLa-140	<2.13E+01	0.00E+00	2.13E+01
					Be-7	2.03E+03	2.87E+02	1.97E+02
					K-40	4.75E+03	6.17E+02	2.76E+02

Sample ID:	585715	Sample Dates:	3/7/2023 - 3/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.96E+01	0.00E+00	1.96E+01
					Co-58	<1.65E+01	0.00E+00	1.65E+01
					Fe-59	<3.84E+01	0.00E+00	3.84E+01
					Co-60	<1.80E+01	0.00E+00	1.80E+01
					Zn-65	<3.59E+01	0.00E+00	3.59E+01
					Zr-95	<2.61E+01	0.00E+00	2.61E+01
					Nb-95	<1.62E+01	0.00E+00	1.62E+01
					I-131	<1.82E+01	0.00E+00	1.82E+01
					Cs-134	<1.77E+01	0.00E+00	1.77E+01
					Cs-137	<1.43E+01	0.00E+00	1.43E+01
					BaLa-140	<1.54E+01	0.00E+00	1.54E+01
					Be-7	1.34E+03	2.40E+02	2.23E+02
					K-40	4.63E+03	6.03E+02	1.71E+02

Sample ID:	587154	Sample Dates:	4/4/2023 - 4/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.62E+01	0.00E+00	1.62E+01
					Co-58	<1.70E+01	0.00E+00	1.70E+01
					Fe-59	<2.45E+01	0.00E+00	2.45E+01
					Co-60	<1.59E+01	0.00E+00	1.59E+01
					Zn-65	<4.27E+01	0.00E+00	4.27E+01
					Zr-95	<2.05E+01	0.00E+00	2.05E+01
					Nb-95	<1.57E+01	0.00E+00	1.57E+01
					I-131	<1.53E+01	0.00E+00	1.53E+01
					Cs-134	<2.24E+01	0.00E+00	2.24E+01
					Cs-137	<1.99E+01	0.00E+00	1.99E+01
					BaLa-140	<1.89E+01	0.00E+00	1.89E+01
					Be-7	2.54E+02	1.32E+02	1.97E+02
					K-40	4.20E+03	5.59E+02	2.80E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 222 [INDICATOR - N @ 0.7 miles]

Sample ID: 588565	Sample Dates: 5/2/2023 - 5/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.49E+01	0.00E+00	2.49E+01
			Co-58	<2.67E+01	0.00E+00	2.67E+01
			Fe-59	<5.30E+01	0.00E+00	5.30E+01
			Co-60	<2.39E+01	0.00E+00	2.39E+01
			Zn-65	<5.77E+01	0.00E+00	5.77E+01
			Zr-95	<4.28E+01	0.00E+00	4.28E+01
			Nb-95	<2.45E+01	0.00E+00	2.45E+01
			I-131	<2.75E+01	0.00E+00	2.75E+01
			Cs-134	<3.29E+01	0.00E+00	3.29E+01
			Cs-137	<2.89E+01	0.00E+00	2.89E+01
			BaLa-140	<2.62E+01	0.00E+00	2.62E+01
			Be-7	5.03E+02	1.98E+02	2.67E+02
			K-40	4.49E+03	6.80E+02	2.76E+02
Sample ID: 590331	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.41E+01	0.00E+00	1.41E+01
			Co-58	<1.52E+01	0.00E+00	1.52E+01
			Fe-59	<3.52E+01	0.00E+00	3.52E+01
			Co-60	<1.23E+01	0.00E+00	1.23E+01
			Zn-65	<3.06E+01	0.00E+00	3.06E+01
			Zr-95	<2.72E+01	0.00E+00	2.72E+01
			Nb-95	<1.56E+01	0.00E+00	1.56E+01
			I-131	<1.37E+01	0.00E+00	1.37E+01
			Cs-134	<2.12E+01	0.00E+00	2.12E+01
			Cs-137	<1.64E+01	0.00E+00	1.64E+01
			BaLa-140	<1.34E+01	0.00E+00	1.34E+01
			Be-7	4.09E+02	1.30E+02	1.69E+02
			K-40	2.90E+03	4.13E+02	2.24E+02
Sample ID: 591457	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.10E+01	0.00E+00	3.10E+01
			Co-58	<3.12E+01	0.00E+00	3.12E+01
			Fe-59	<4.89E+01	0.00E+00	4.89E+01
			Co-60	<2.48E+01	0.00E+00	2.48E+01
			Zn-65	<6.20E+01	0.00E+00	6.20E+01
			Zr-95	<4.27E+01	0.00E+00	4.27E+01
			Nb-95	<2.56E+01	0.00E+00	2.56E+01
			I-131	<2.83E+01	0.00E+00	2.83E+01
			Cs-134	<3.78E+01	0.00E+00	3.78E+01
			Cs-137	<3.26E+01	0.00E+00	3.26E+01
			BaLa-140	<3.50E+01	0.00E+00	3.50E+01
			Be-7	6.60E+02	2.28E+02	2.98E+02
			K-40	3.18E+03	5.90E+02	4.33E+02
Sample ID: 592501	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.04E+01	0.00E+00	4.04E+01
			Co-58	<1.86E+01	0.00E+00	1.86E+01
			Fe-59	<6.87E+01	0.00E+00	6.87E+01
			Co-60	<3.43E+01	0.00E+00	3.43E+01
			Zn-65	<5.99E+01	0.00E+00	5.99E+01
			Zr-95	<4.70E+01	0.00E+00	4.70E+01
			Nb-95	<2.91E+01	0.00E+00	2.91E+01
			I-131	<3.13E+01	0.00E+00	3.13E+01
			Cs-134	<3.75E+01	0.00E+00	3.75E+01
			Cs-137	<3.49E+01	0.00E+00	3.49E+01
			BaLa-140	<5.61E+01	0.00E+00	5.61E+01
			Be-7	6.84E+02	2.55E+02	2.66E+02
			K-40	2.85E+03	7.39E+02	5.27E+02
Sample ID: 594034	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.36E+01	0.00E+00	3.36E+01
			Co-58	<3.45E+01	0.00E+00	3.45E+01
			Fe-59	<6.00E+01	0.00E+00	6.00E+01
			Co-60	<3.76E+01	0.00E+00	3.76E+01
			Zn-65	<8.11E+01	0.00E+00	8.11E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 222 [INDICATOR - N @ 0.7 miles]

Sample ID:	594034	Sample Dates:	9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Zr-95	<6.42E+01	0.00E+00	6.42E+01
					Nb-95	<3.40E+01	0.00E+00	3.40E+01
					I-131	<4.97E+01	0.00E+00	4.97E+01
					Cs-134	<4.48E+01	0.00E+00	4.48E+01
					Cs-137	<3.30E+01	0.00E+00	3.30E+01
					BaLa-140	<5.08E+01	0.00E+00	5.08E+01
					Be-7	1.07E+03	3.43E+02	4.52E+02
					K-40	4.76E+03	7.90E+02	4.82E+02

Sample ID:	595796	Sample Dates:	10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.57E+01	0.00E+00	2.57E+01
					Co-58	<2.67E+01	0.00E+00	2.67E+01
					Fe-59	<5.65E+01	0.00E+00	5.65E+01
					Co-60	<2.34E+01	0.00E+00	2.34E+01
					Zn-65	<5.26E+01	0.00E+00	5.26E+01
					Zr-95	<4.41E+01	0.00E+00	4.41E+01
					Nb-95	<2.20E+01	0.00E+00	2.20E+01
					I-131	<2.89E+01	0.00E+00	2.89E+01
					Cs-134	<3.40E+01	0.00E+00	3.40E+01
					Cs-137	<2.83E+01	0.00E+00	2.83E+01
					BaLa-140	<3.20E+01	0.00E+00	3.20E+01
					Be-7	7.04E+02	2.39E+02	3.20E+02
					K-40	3.08E+03	5.58E+02	3.80E+02

Sample ID:	598071	Sample Dates:	11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.56E+01	0.00E+00	4.56E+01
					Co-58	<1.66E+01	0.00E+00	1.66E+01
					Fe-59	<8.18E+01	0.00E+00	8.18E+01
					Co-60	<3.54E+01	0.00E+00	3.54E+01
					Zn-65	<8.61E+01	0.00E+00	8.61E+01
					Zr-95	<6.52E+01	0.00E+00	6.52E+01
					Nb-95	<3.29E+01	0.00E+00	3.29E+01
					I-131	<3.71E+01	0.00E+00	3.71E+01
					Cs-134	<3.82E+01	0.00E+00	3.82E+01
					Cs-137	<4.27E+01	0.00E+00	4.27E+01
					BaLa-140	<3.23E+01	0.00E+00	3.23E+01
					Be-7	6.94E+02	2.72E+02	3.26E+02
					K-40	4.10E+03	8.63E+02	5.85E+02

Sample ID:	600267	Sample Dates:	12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.89E+01	0.00E+00	1.89E+01
					Co-58	<2.15E+01	0.00E+00	2.15E+01
					Fe-59	<4.05E+01	0.00E+00	4.05E+01
					Co-60	<2.26E+01	0.00E+00	2.26E+01
					Zn-65	<4.06E+01	0.00E+00	4.06E+01
					Zr-95	<3.59E+01	0.00E+00	3.59E+01
					Nb-95	<1.96E+01	0.00E+00	1.96E+01
					I-131	<1.68E+01	0.00E+00	1.68E+01
					Cs-134	<2.31E+01	0.00E+00	2.31E+01
					Cs-137	<2.41E+01	0.00E+00	2.41E+01
					BaLa-140	<2.30E+01	0.00E+00	2.30E+01
					Be-7	1.41E+03	2.41E+02	2.01E+02
					K-40	4.27E+03	5.82E+02	2.43E+02

Sample Point 226 [INDICATOR - S @ 0.48 miles]

Sample ID:	582515	Sample Dates:	1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.90E+01	0.00E+00	3.90E+01
					Co-58	<4.01E+01	0.00E+00	4.01E+01
					Fe-59	<7.24E+01	0.00E+00	7.24E+01
					Co-60	<4.08E+01	0.00E+00	4.08E+01
					Zn-65	<7.66E+01	0.00E+00	7.66E+01
					Zr-95	<5.85E+01	0.00E+00	5.85E+01
					Nb-95	<5.78E+01	0.00E+00	5.78E+01
					I-131	<3.86E+01	0.00E+00	3.86E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 226 [INDICATOR - S @ 0.48 miles]

Sample ID: 582515	Sample Dates: 1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<4.38E+01	0.00E+00	4.38E+01
			Cs-137	<4.91E+01	0.00E+00	4.91E+01
			BaLa-140	<2.92E+01	0.00E+00	2.92E+01
			Be-7	1.03E+03	3.33E+02	3.94E+02
			K-40	4.37E+03	8.91E+02	6.62E+02
Sample ID: 583603	Sample Dates: 2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.96E+01	0.00E+00	1.96E+01
			Co-58	<1.96E+01	0.00E+00	1.96E+01
			Fe-59	<2.89E+01	0.00E+00	2.89E+01
			Co-60	<2.06E+01	0.00E+00	2.06E+01
			Zn-65	<4.61E+01	0.00E+00	4.61E+01
			Zr-95	<3.85E+01	0.00E+00	3.85E+01
			Nb-95	<1.89E+01	0.00E+00	1.89E+01
			I-131	<1.55E+01	0.00E+00	1.55E+01
			Cs-134	<2.23E+01	0.00E+00	2.23E+01
			Cs-137	<2.15E+01	0.00E+00	2.15E+01
			BaLa-140	<1.79E+01	0.00E+00	1.79E+01
			Be-7	9.22E+02	1.98E+02	2.04E+02
			K-40	3.73E+03	5.46E+02	3.24E+02
Sample ID: 585716	Sample Dates: 3/7/2023 - 3/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.12E+01	0.00E+00	2.12E+01
			Co-58	<1.94E+01	0.00E+00	1.94E+01
			Fe-59	<4.10E+01	0.00E+00	4.10E+01
			Co-60	<1.93E+01	0.00E+00	1.93E+01
			Zn-65	<4.38E+01	0.00E+00	4.38E+01
			Zr-95	<3.35E+01	0.00E+00	3.35E+01
			Nb-95	<1.73E+01	0.00E+00	1.73E+01
			I-131	<1.74E+01	0.00E+00	1.74E+01
			Cs-134	<2.30E+01	0.00E+00	2.30E+01
			Cs-137	<1.90E+01	0.00E+00	1.90E+01
			BaLa-140	<2.78E+01	0.00E+00	2.78E+01
			Be-7	5.75E+02	1.78E+02	2.29E+02
			K-40	3.77E+03	5.38E+02	2.34E+02
Sample ID: 587155	Sample Dates: 4/4/2023 - 4/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.01E+01	0.00E+00	2.01E+01
			Co-58	<1.86E+01	0.00E+00	1.86E+01
			Fe-59	<4.01E+01	0.00E+00	4.01E+01
			Co-60	<2.38E+01	0.00E+00	2.38E+01
			Zn-65	<4.27E+01	0.00E+00	4.27E+01
			Zr-95	<3.21E+01	0.00E+00	3.21E+01
			Nb-95	<1.87E+01	0.00E+00	1.87E+01
			I-131	<1.90E+01	0.00E+00	1.90E+01
			Cs-134	<2.06E+01	0.00E+00	2.06E+01
			Cs-137	<2.03E+01	0.00E+00	2.03E+01
			BaLa-140	<2.31E+01	0.00E+00	2.31E+01
			Be-7	3.07E+02	1.59E+02	2.37E+02
			K-40	4.48E+03	6.01E+02	2.26E+02
Sample ID: 588566	Sample Dates: 5/2/2023 - 5/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.29E+01	0.00E+00	2.29E+01
			Co-58	<1.91E+01	0.00E+00	1.91E+01
			Fe-59	<3.87E+01	0.00E+00	3.87E+01
			Co-60	<2.04E+01	0.00E+00	2.04E+01
			Zn-65	<3.89E+01	0.00E+00	3.89E+01
			Zr-95	<3.39E+01	0.00E+00	3.39E+01
			Nb-95	<1.93E+01	0.00E+00	1.93E+01
			I-131	<2.31E+01	0.00E+00	2.31E+01
			Cs-134	<2.42E+01	0.00E+00	2.42E+01
			Cs-137	<2.37E+01	0.00E+00	2.37E+01
			BaLa-140	<1.98E+01	0.00E+00	1.98E+01
			Be-7	8.98E+02	2.10E+02	2.34E+02
			K-40	5.23E+03	6.78E+02	2.33E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 226 [INDICATOR - S @ 0.48 miles]

Sample ID: 590332	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.57E+01	0.00E+00	1.57E+01
			Co-58	<1.40E+01	0.00E+00	1.40E+01
			Fe-59	<3.12E+01	0.00E+00	3.12E+01
			Co-60	<2.23E+01	0.00E+00	2.23E+01
			Zn-65	<3.74E+01	0.00E+00	3.74E+01
			Zr-95	<2.59E+01	0.00E+00	2.59E+01
			Nb-95	<1.41E+01	0.00E+00	1.41E+01
			I-131	<1.42E+01	0.00E+00	1.42E+01
			Cs-134	<1.82E+01	0.00E+00	1.82E+01
			Cs-137	<1.49E+01	0.00E+00	1.49E+01
			BaLa-140	<1.68E+01	0.00E+00	1.68E+01
			Be-7	5.97E+02	1.52E+02	1.84E+02
			K-40	3.75E+03	4.91E+02	2.15E+02
Sample ID: 591458	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.55E+01	0.00E+00	2.55E+01
			Co-58	<2.23E+01	0.00E+00	2.23E+01
			Fe-59	<3.62E+01	0.00E+00	3.62E+01
			Co-60	<2.63E+01	0.00E+00	2.63E+01
			Zn-65	<4.19E+01	0.00E+00	4.19E+01
			Zr-95	<3.64E+01	0.00E+00	3.64E+01
			Nb-95	<2.52E+01	0.00E+00	2.52E+01
			I-131	<2.54E+01	0.00E+00	2.54E+01
			Cs-134	<2.80E+01	0.00E+00	2.80E+01
			Cs-137	<2.79E+01	0.00E+00	2.79E+01
			BaLa-140	<2.81E+01	0.00E+00	2.81E+01
			Be-7	9.33E+02	2.36E+02	2.71E+02
			K-40	5.64E+03	7.56E+02	3.02E+02
Sample ID: 592502	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.17E+01	0.00E+00	2.17E+01
			Co-58	<3.03E+01	0.00E+00	3.03E+01
			Fe-59	<5.66E+01	0.00E+00	5.66E+01
			Co-60	<4.09E+01	0.00E+00	4.09E+01
			Zn-65	<8.90E+01	0.00E+00	8.90E+01
			Zr-95	<6.00E+01	0.00E+00	6.00E+01
			Nb-95	<3.52E+01	0.00E+00	3.52E+01
			I-131	<2.48E+01	0.00E+00	2.48E+01
			Cs-134	<3.15E+01	0.00E+00	3.15E+01
			Cs-137	<2.97E+01	0.00E+00	2.97E+01
			BaLa-140	<3.18E+01	0.00E+00	3.18E+01
			Be-7	8.17E+02	2.58E+02	2.33E+02
			K-40	5.22E+03	9.63E+02	4.14E+02
Sample ID: 594035	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.45E+01	0.00E+00	2.45E+01
			Co-58	<2.77E+01	0.00E+00	2.77E+01
			Fe-59	<4.47E+01	0.00E+00	4.47E+01
			Co-60	<2.07E+01	0.00E+00	2.07E+01
			Zn-65	<6.23E+01	0.00E+00	6.23E+01
			Zr-95	<5.21E+01	0.00E+00	5.21E+01
			Nb-95	<3.24E+01	0.00E+00	3.24E+01
			I-131	<3.83E+01	0.00E+00	3.83E+01
			Cs-134	<3.25E+01	0.00E+00	3.25E+01
			Cs-137	<2.99E+01	0.00E+00	2.99E+01
			BaLa-140	<4.48E+01	0.00E+00	4.48E+01
			Be-7	1.06E+03	3.10E+02	3.74E+02
			K-40	3.83E+03	7.26E+02	5.41E+02
Sample ID: 595797	Sample Dates: 10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.58E+01	0.00E+00	2.58E+01
			Co-58	<2.15E+01	0.00E+00	2.15E+01
			Fe-59	<4.36E+01	0.00E+00	4.36E+01
			Co-60	<2.51E+01	0.00E+00	2.51E+01
			Zn-65	<5.05E+01	0.00E+00	5.05E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 226 [INDICATOR - S @ 0.48 miles]

Sample ID:	595797	Sample Dates:	10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Zr-95	<3.32E+01	0.00E+00	3.32E+01
					Nb-95	<2.18E+01	0.00E+00	2.18E+01
					I-131	<2.54E+01	0.00E+00	2.54E+01
					Cs-134	<2.62E+01	0.00E+00	2.62E+01
					Cs-137	<2.67E+01	0.00E+00	2.67E+01
					BaLa-140	<3.09E+01	0.00E+00	3.09E+01
					Be-7	1.03E+03	2.39E+02	2.62E+02
					K-40	4.04E+03	5.96E+02	2.06E+02

Sample ID:	598072	Sample Dates:	11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.70E+01	0.00E+00	2.70E+01
					Co-58	<2.30E+01	0.00E+00	2.30E+01
					Fe-59	<5.25E+01	0.00E+00	5.25E+01
					Co-60	<2.83E+01	0.00E+00	2.83E+01
					Zn-65	<7.05E+01	0.00E+00	7.05E+01
					Zr-95	<3.60E+01	0.00E+00	3.60E+01
					Nb-95	<1.89E+01	0.00E+00	1.89E+01
					I-131	<2.19E+01	0.00E+00	2.19E+01
					Cs-134	<2.93E+01	0.00E+00	2.93E+01
					Cs-137	<2.24E+01	0.00E+00	2.24E+01
					BaLa-140	<2.89E+01	0.00E+00	2.89E+01
					Be-7	7.44E+02	2.40E+02	2.96E+02
					K-40	5.83E+03	8.49E+02	3.47E+02

Sample ID:	600268	Sample Dates:	12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.10E+01	0.00E+00	2.10E+01
					Co-58	<1.61E+01	0.00E+00	1.61E+01
					Fe-59	<3.66E+01	0.00E+00	3.66E+01
					Co-60	<2.57E+01	0.00E+00	2.57E+01
					Zn-65	<4.12E+01	0.00E+00	4.12E+01
					Zr-95	<3.47E+01	0.00E+00	3.47E+01
					Nb-95	<1.69E+01	0.00E+00	1.69E+01
					I-131	<1.98E+01	0.00E+00	1.98E+01
					Cs-134	<2.23E+01	0.00E+00	2.23E+01
					Cs-137	<2.07E+01	0.00E+00	2.07E+01
					BaLa-140	<2.24E+01	0.00E+00	2.24E+01
					Be-7	3.40E+02	1.54E+02	2.22E+02
					K-40	4.52E+03	6.25E+02	3.55E+02

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID:	582516	Sample Dates:	1/4/2023 - 1/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.33E+01	0.00E+00	3.33E+01
					Co-58	<2.58E+01	0.00E+00	2.58E+01
					Fe-59	<5.57E+01	0.00E+00	5.57E+01
					Co-60	<3.21E+01	0.00E+00	3.21E+01
					Zn-65	<8.87E+01	0.00E+00	8.87E+01
					Zr-95	<4.46E+01	0.00E+00	4.46E+01
					Nb-95	<3.50E+01	0.00E+00	3.50E+01
					I-131	<3.24E+01	0.00E+00	3.24E+01
					Cs-134	<3.94E+01	0.00E+00	3.94E+01
					Cs-137	<3.80E+01	0.00E+00	3.80E+01
					BaLa-140	<4.36E+01	0.00E+00	4.36E+01
					Be-7	1.05E+03	3.18E+02	3.98E+02
					K-40	3.60E+03	7.01E+02	4.98E+02

Sample ID:	583604	Sample Dates:	2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.97E+01	0.00E+00	1.97E+01
					Co-58	<1.69E+01	0.00E+00	1.69E+01
					Fe-59	<2.91E+01	0.00E+00	2.91E+01
					Co-60	<1.16E+01	0.00E+00	1.16E+01
					Zn-65	<4.23E+01	0.00E+00	4.23E+01
					Zr-95	<2.64E+01	0.00E+00	2.64E+01
					Nb-95	<1.77E+01	0.00E+00	1.77E+01
					I-131	<1.70E+01	0.00E+00	1.70E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID: 583604	Sample Dates: 2/7/2023 - 2/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.97E+01	0.00E+00	1.97E+01
			Cs-137	<1.74E+01	0.00E+00	1.74E+01
			BaLa-140	<1.79E+01	0.00E+00	1.79E+01
			Be-7	1.37E+03	2.31E+02	1.93E+02
			K-40	5.01E+03	6.38E+02	2.52E+02
Sample ID: 585717	Sample Dates: 3/7/2023 - 3/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.55E+01	0.00E+00	1.55E+01
			Co-58	<1.50E+01	0.00E+00	1.50E+01
			Fe-59	<2.88E+01	0.00E+00	2.88E+01
			Co-60	<1.52E+01	0.00E+00	1.52E+01
			Zn-65	<3.93E+01	0.00E+00	3.93E+01
			Zr-95	<2.93E+01	0.00E+00	2.93E+01
			Nb-95	<1.60E+01	0.00E+00	1.60E+01
			I-131	<1.67E+01	0.00E+00	1.67E+01
			Cs-134	<2.21E+01	0.00E+00	2.21E+01
			Cs-137	<1.69E+01	0.00E+00	1.69E+01
			BaLa-140	<1.12E+01	0.00E+00	1.12E+01
			Be-7	6.31E+02	1.66E+02	2.07E+02
			K-40	4.71E+03	5.90E+02	2.34E+02
Sample ID: 587156	Sample Dates: 4/4/2023 - 4/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.91E+01	0.00E+00	1.91E+01
			Co-58	<1.54E+01	0.00E+00	1.54E+01
			Fe-59	<3.30E+01	0.00E+00	3.30E+01
			Co-60	<1.11E+01	0.00E+00	1.11E+01
			Zn-65	<3.73E+01	0.00E+00	3.73E+01
			Zr-95	<2.86E+01	0.00E+00	2.86E+01
			Nb-95	<1.84E+01	0.00E+00	1.84E+01
			I-131	<1.66E+01	0.00E+00	1.66E+01
			Cs-134	<1.92E+01	0.00E+00	1.92E+01
			Cs-137	<1.62E+01	0.00E+00	1.62E+01
			BaLa-140	<2.27E+01	0.00E+00	2.27E+01
			Be-7	2.99E+02	1.56E+02	2.34E+02
			K-40	4.19E+03	5.56E+02	2.39E+02
Sample ID: 588567	Sample Dates: 5/2/2023 - 5/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.49E+01	0.00E+00	2.49E+01
			Co-58	<2.10E+01	0.00E+00	2.10E+01
			Fe-59	<3.71E+01	0.00E+00	3.71E+01
			Co-60	<3.21E+01	0.00E+00	3.21E+01
			Zn-65	<5.36E+01	0.00E+00	5.36E+01
			Zr-95	<4.21E+01	0.00E+00	4.21E+01
			Nb-95	<2.39E+01	0.00E+00	2.39E+01
			I-131	<2.10E+01	0.00E+00	2.10E+01
			Cs-134	<2.54E+01	0.00E+00	2.54E+01
			Cs-137	<1.84E+01	0.00E+00	1.84E+01
			BaLa-140	<2.65E+01	0.00E+00	2.65E+01
			Be-7	4.94E+02	1.89E+02	2.61E+02
			K-40	4.45E+03	6.42E+02	3.36E+02
Sample ID: 590333	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.96E+01	0.00E+00	1.96E+01
			Co-58	<1.85E+01	0.00E+00	1.85E+01
			Fe-59	<3.25E+01	0.00E+00	3.25E+01
			Co-60	<2.23E+01	0.00E+00	2.23E+01
			Zn-65	<4.28E+01	0.00E+00	4.28E+01
			Zr-95	<3.37E+01	0.00E+00	3.37E+01
			Nb-95	<1.96E+01	0.00E+00	1.96E+01
			I-131	<1.82E+01	0.00E+00	1.82E+01
			Cs-134	<2.50E+01	0.00E+00	2.50E+01
			Cs-137	<2.06E+01	0.00E+00	2.06E+01
			BaLa-140	<1.45E+01	0.00E+00	1.45E+01
			Be-7	6.56E+02	1.92E+02	2.54E+02
			K-40	3.97E+03	5.43E+02	2.33E+02

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg
Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID: 591459	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.25E+01	0.00E+00	2.25E+01
			Co-58	<2.27E+01	0.00E+00	2.27E+01
			Fe-59	<4.83E+01	0.00E+00	4.83E+01
			Co-60	<2.01E+01	0.00E+00	2.01E+01
			Zn-65	<5.30E+01	0.00E+00	5.30E+01
			Zr-95	<3.94E+01	0.00E+00	3.94E+01
			Nb-95	<3.01E+01	0.00E+00	3.01E+01
			I-131	<2.94E+01	0.00E+00	2.94E+01
			Cs-134	<3.10E+01	0.00E+00	3.10E+01
			Cs-137	<2.38E+01	0.00E+00	2.38E+01
			BaLa-140	<3.22E+01	0.00E+00	3.22E+01
			Be-7	9.25E+02	2.41E+02	2.91E+02
			K-40	4.62E+03	6.59E+02	2.66E+02
Sample ID: 592503	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.42E+01	0.00E+00	3.42E+01
			Co-58	<2.89E+01	0.00E+00	2.89E+01
			Fe-59	<8.19E+01	0.00E+00	8.19E+01
			Co-60	<3.80E+01	0.00E+00	3.80E+01
			Zn-65	<8.06E+01	0.00E+00	8.06E+01
			Zr-95	<5.45E+01	0.00E+00	5.45E+01
			Nb-95	<3.67E+01	0.00E+00	3.67E+01
			I-131	<3.13E+01	0.00E+00	3.13E+01
			Cs-134	<3.45E+01	0.00E+00	3.45E+01
			Cs-137	<4.59E+01	0.00E+00	4.59E+01
			BaLa-140	<1.21E+01	0.00E+00	1.21E+01
			Be-7	7.35E+02	3.27E+02	4.38E+02
			K-40	3.45E+03	7.80E+02	4.20E+02
Sample ID: 594036	Sample Dates: 9/6/2023 - 9/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.20E+01	0.00E+00	3.20E+01
			Co-58	<2.77E+01	0.00E+00	2.77E+01
			Fe-59	<6.01E+01	0.00E+00	6.01E+01
			Co-60	<2.68E+01	0.00E+00	2.68E+01
			Zn-65	<5.98E+01	0.00E+00	5.98E+01
			Zr-95	<5.25E+01	0.00E+00	5.25E+01
			Nb-95	<3.34E+01	0.00E+00	3.34E+01
			I-131	<4.49E+01	0.00E+00	4.49E+01
			Cs-134	<3.17E+01	0.00E+00	3.17E+01
			Cs-137	<2.65E+01	0.00E+00	2.65E+01
			BaLa-140	<4.28E+01	0.00E+00	4.28E+01
			Be-7	1.22E+03	2.92E+02	3.29E+02
			K-40	3.77E+03	6.45E+02	4.50E+02
Sample ID: 595798	Sample Dates: 10/3/2023 - 10/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.54E+01	0.00E+00	3.54E+01
			Co-58	<3.38E+01	0.00E+00	3.38E+01
			Fe-59	<7.38E+01	0.00E+00	7.38E+01
			Co-60	<4.92E+01	0.00E+00	4.92E+01
			Zn-65	<7.83E+01	0.00E+00	7.83E+01
			Zr-95	<3.13E+01	0.00E+00	3.13E+01
			Nb-95	<3.91E+01	0.00E+00	3.91E+01
			I-131	<2.91E+01	0.00E+00	2.91E+01
			Cs-134	<4.26E+01	0.00E+00	4.26E+01
			Cs-137	<4.24E+01	0.00E+00	4.24E+01
			BaLa-140	<2.77E+01	0.00E+00	2.77E+01
			Be-7	1.46E+03	3.65E+02	3.83E+02
			K-40	3.66E+03	7.70E+02	5.65E+02
Sample ID: 598073	Sample Dates: 11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.78E+01	0.00E+00	3.78E+01
			Co-58	<2.94E+01	0.00E+00	2.94E+01
			Fe-59	<7.14E+01	0.00E+00	7.14E+01
			Co-60	<4.56E+01	0.00E+00	4.56E+01
			Zn-65	<6.93E+01	0.00E+00	6.93E+01

CATAWBA Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg
Sample Point 258 [CONTROL - W @ 9.84 miles]

Sample ID: 598073	Sample Dates: 11/7/2023 - 11/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Zr-95	<7.04E+01	0.00E+00	7.04E+01
			Nb-95	<3.53E+01	0.00E+00	3.53E+01
			I-131	<3.86E+01	0.00E+00	3.86E+01
			Cs-134	<4.85E+01	0.00E+00	4.85E+01
			Cs-137	<4.20E+01	0.00E+00	4.20E+01
			BaLa-140	<4.40E+01	0.00E+00	4.40E+01
			Be-7	7.02E+02	3.29E+02	4.62E+02
			K-40	4.78E+03	9.12E+02	5.68E+02
Sample ID: 600269	Sample Dates: 12/5/2023 - 12/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.34E+01	0.00E+00	2.34E+01
			Co-58	<2.22E+01	0.00E+00	2.22E+01
			Fe-59	<4.82E+01	0.00E+00	4.82E+01
			Co-60	<3.11E+01	0.00E+00	3.11E+01
			Zn-65	<3.94E+01	0.00E+00	3.94E+01
			Zr-95	<3.93E+01	0.00E+00	3.93E+01
			Nb-95	<2.09E+01	0.00E+00	2.09E+01
			I-131	<1.99E+01	0.00E+00	1.99E+01
			Cs-134	<2.68E+01	0.00E+00	2.68E+01
			Cs-137	<2.27E+01	0.00E+00	2.27E+01
			BaLa-140	<1.86E+01	0.00E+00	1.86E+01
			Be-7	4.52E+02	2.03E+02	2.96E+02
			K-40	4.28E+03	6.41E+02	4.35E+02

APPENDIX F

ERRATA TO

PREVIOUS REPORTS

2023

There Are No Known Errata
To The 2023 AREOR.

Enclosure 3
RA-24-0031

ENCLOSURE 3: [HNP Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY PROGRESS, LLC

SHEARON HARRIS NUCLEAR POWER PLANT

2023



TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-1
2.3 Statistical and Calculational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-2
3.2 Drinking Water	3-6
3.3 Surface Water	3-9
3.4 Ground Water	3-11
3.5 Milk	3-12
3.6 Broadleaf Vegetation	3-13
3.7 Aquatic Vegetation	3-14
3.8 Fish	3-15
3.9 Shoreline Sediment	3-16
3.10 Bottom Sediment	3-17
3.11 Direct Gamma Radiation	3-19
3.11.1 Environmental TLD	3-19
3.12 Land Use Census	3-22
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-1
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 State of North Carolina Intercomparison Program	4-2
4.7 TLD Intercomparison Program	4-2

Appendices

Appendix A: Environmental Sampling and Analysis Procedures	A-1
I. Change of Sampling Procedures	A-2
II. Description of Analysis Procedures	A-2
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program – Summary of Results 2023	B-1
Radiological Environmental Monitoring Program Data Summary.	B-2
Footnotes to Appendix B	B-5
Appendix C: Sampling Deviations & Unavailable Analyses	C-1
C.1 Sampling Deviations.	C-2
C.2 Unavailable Analyses	C-3
Appendix D: Analytical Deviations	D-1
Appendix E: Radiological Environmental Monitoring Program Results 2023	E-1
Appendix F: Errata to Previous Reports	F-1

LIST OF FIGURES

2.1-1	Map of Site Boundary	2-5
2.1-2	Harris Nuclear Plant Sampling Locations - One Mile Radius.	2-6
2.1-3	Harris Nuclear Plant Sampling Locations - Ten Mile Radius.	2-7
2.1-4	Harris Nuclear Plant Sampling Locations - >10 Mile Radius.	2-8
3.1	Concentration of Gross Beta in Air Particulate.	3-3
3.2-1	Concentration of Gross Beta in Drinking Water	3-7
3.2-2	Concentration of Tritium in Drinking Water.	3-7
3.3	Concentration of Tritium in Surface Water.	3-9
3.10	Concentration of Co-60 and Cs-137 in Bottom Sediment	3-17
3.11	Direct Gamma Radiation (TLD) Results.	3-20
3.12	Harris Nuclear Plant 2023 Land Use Census Map.	3-24

LIST OF TABLES

2.1-A	Radiological Monitoring Program Sampling Locations	2-9
2.1-B	Radiological Monitoring Program Sampling Locations (TLD Sites)	2-11
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-12
2.2-B	REMP Analysis Frequency	2-13
2.2-C	Detection Capabilities for the <i>A Priori</i> Lower Limit of Detection.	2-14
3.1-A	Mean Concentration of Gross Beta in Air Particulate	3-4
3.1-B	Mean Concentration of Air Radioiodine (I-131).	3-5
3.2	Mean Concentration of Radionuclides in Drinking Water.	3-8
3.3	Mean Concentration of Tritium in Surface Water.	3-10
3.10	Mean Concentration of Radionuclides in Bottom Sediment.	3-18
3.11	Direct Gamma Radiation (TLD) Results.	3-21
3.12	Harris Land Use Census Comparison (2022 – 2023).	3-23
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2023 Environmental Dosimeter Cross Check Results	4-5

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

A	Annually
APAC	Air Particulate Air Cartridge/Radioiodine
AR	Action Request - Corrective Action Program
AREOR	Annual Radiological Environmental Operating Report
BLV	Broadleaf Vegetation
BW	Biweekly
C	Control
CM	Community
DRR	Document Revision Request
DW	Drinking Water
EZA	Eckert and Ziegler Analytics
GPS	Global Positioning System
GW	Ground Water
HNP	Harris Nuclear Plant or Shearon Harris Nuclear Plant
LLD	Lower Limit of Detection
LUC	Land Use Census
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mR/STD Qtr	milliroentgen per standard quarter
MWe	Mega Watts electric
NIST	National Institute of Standards and Technology
NCR	Nuclear Condition Report - Corrective Action Program
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SHNPP	Shearon Harris Nuclear Power Plant
SM	Semimonthly
SW	Surface Water
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Shearon Harris Nuclear Plant Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by plant operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed.

Sampling activities were conducted as prescribed by the Harris Nuclear Plant Offsite Dose Calculation Manual (ODCM). One thousand two hundred and seventy-two samples were analyzed comprising one thousand three hundred and twenty-five test results in order to compile data for the 2023 report. Based on the annual land use census, the current number of sampling sites for Harris Nuclear Plant is sufficient.

Concentrations observed in the environment in 2023 for plant related radionuclides were generally within the ranges of concentrations observed in the past. Inspection of the data showed that radioactivity concentrations in drinking water, ground water, surface water, and bottom sediment are higher than the activities reported for samples collected prior to the operation of the station. Measured concentrations, including tritium, were not higher than expected and all positively identified measurements attributable to station operation were within limits as specified in the HNP ODCM and regulatory limits, thus presenting no significant impact on the environment or public health and safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy Progress, LLC (Duke Energy), Shearon Harris Nuclear Power Plant, is a single-unit facility located on the shore of Harris Lake in southwest Wake County, North Carolina. The pressurized water reactor nuclear steam supply system furnished by Westinghouse Electric Corporation is designed to produce a net electrical output of approximately 930 MWe. Initial criticality was achieved on January 3, 1987.

Condenser cooling is accomplished utilizing a closed system incorporating a cooling tower, instead of using lake water directly. Liquid effluents are released into Harris Lake via the station discharge canal and are not accompanied by the large additional dilution water flow associated with “once-through” condenser cooling. This design results in greater radionuclide concentrations in the discharge canal given comparable liquid effluent source terms.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. Figure 2.1-1 is a map of the HNP site boundary. Sample points beyond the site boundary are considered offsite. Figures 2.1-2, 2.1-3, and 2.1-4 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-2 comprises all sample locations within a one-mile radius of HNP. Figure 2.1-3 comprises all sample locations within a 10-mile radius of HNP. Figure 2.1-4 comprises all sample locations beyond a 10-mile radius of HNP.

The Shearon Harris Nuclear Plant centerline used for GPS measurements was referenced from the Shearon Harris Nuclear Plant Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for HNP GPS measurements were latitude 35°-38'-00"N and longitude 78°-57'-22"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. All GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at Harris Nuclear Plant since 1982, five years prior to commencing operation. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity, which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance and is conducted in accordance with Operational Requirement 3.12.1 in the HNP Offsite Dose Calculation Manual and applicable procedures; with regards to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of plant origin from natural or other “man-made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Shearon Harris Nuclear Plant. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by the HNP Offsite Dose Calculation Manual, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.13.

Participation in an interlaboratory comparison program is performed in fulfillment of HNP ODCM Operational Requirements. The comparison program provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. “Net activity (or concentration)” is the activity (or concentration) determined to be present in the sample. No “Minimum Detectable Activity”, “Lower Limit of Detection”, “Less Than Level”, or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

χ_i = net activity (or concentration) for sample i .

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the REMP.

LLD - The LLD, as defined in the ODCM as the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background-counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the ODCM and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear plant. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment, but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data.

Factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the Japan earthquake and tsunami, which triggered the 2011 Fukushima Dai-ichi Nuclear Power Plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

Map of Site Boundary

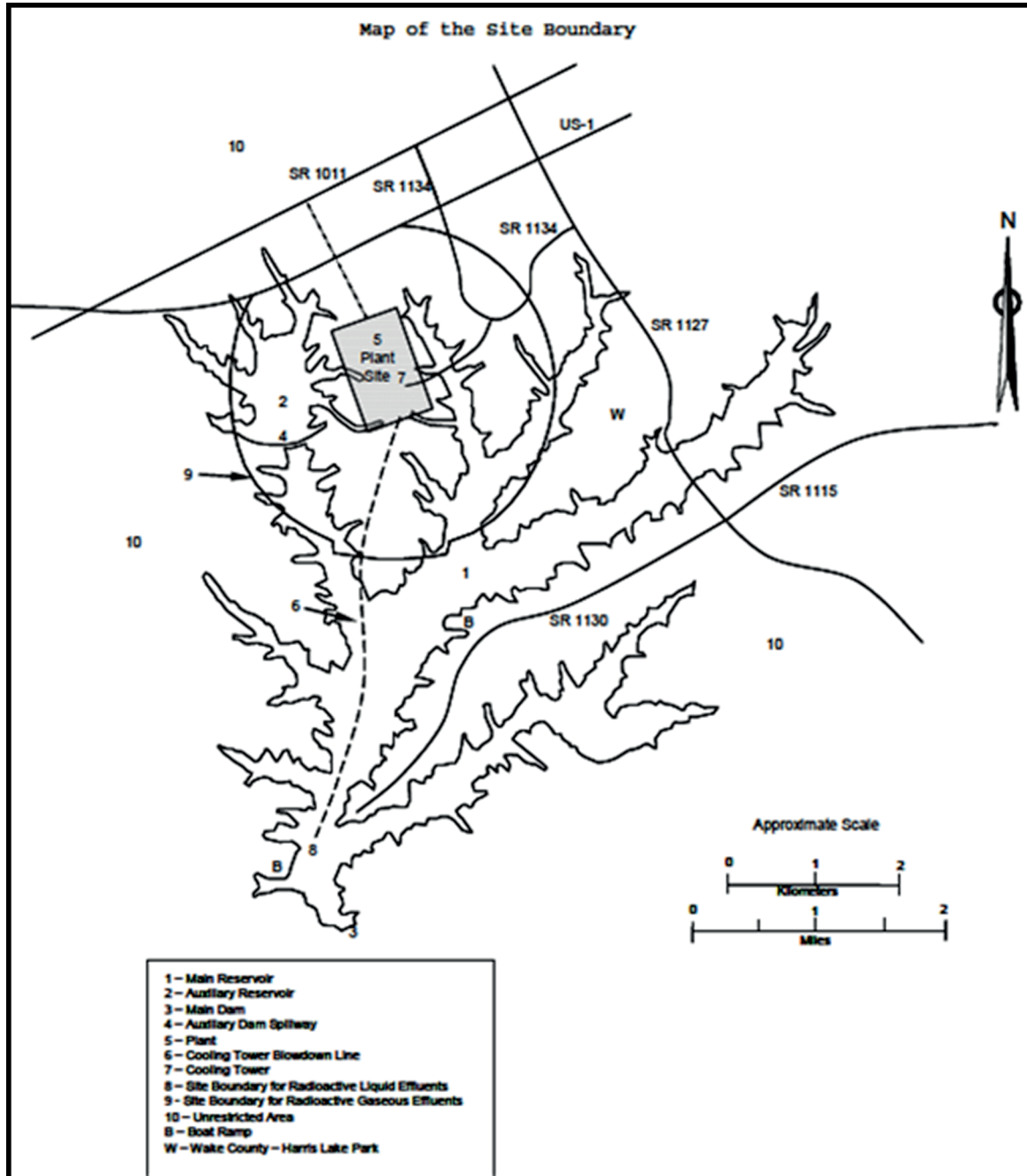
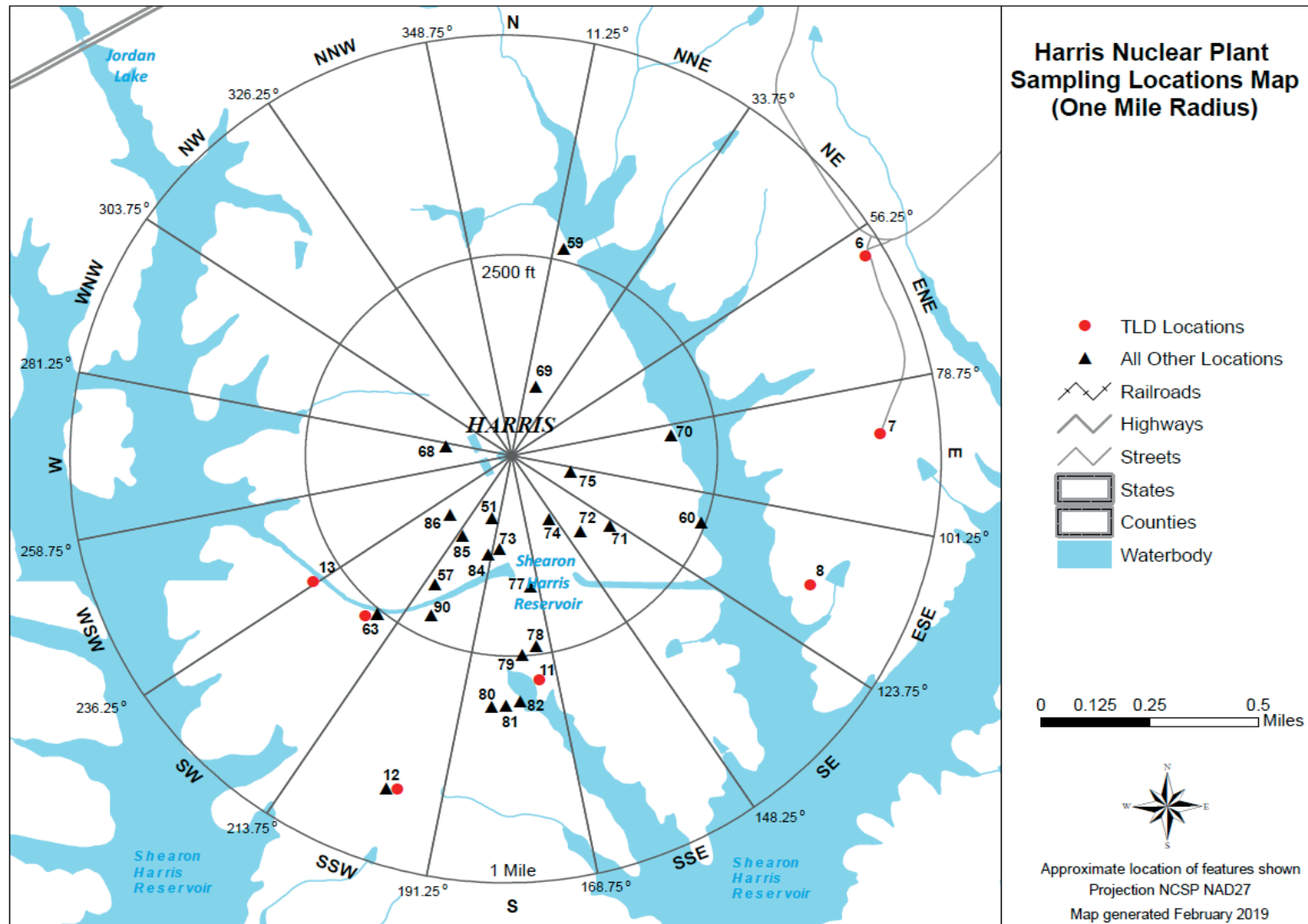


Figure 2.1-2

Harris Nuclear Plant Sampling Locations - One Mile Radius



**Figure 2.1-3
Harris Nuclear Plant Sampling Locations - Ten Mile Radius**

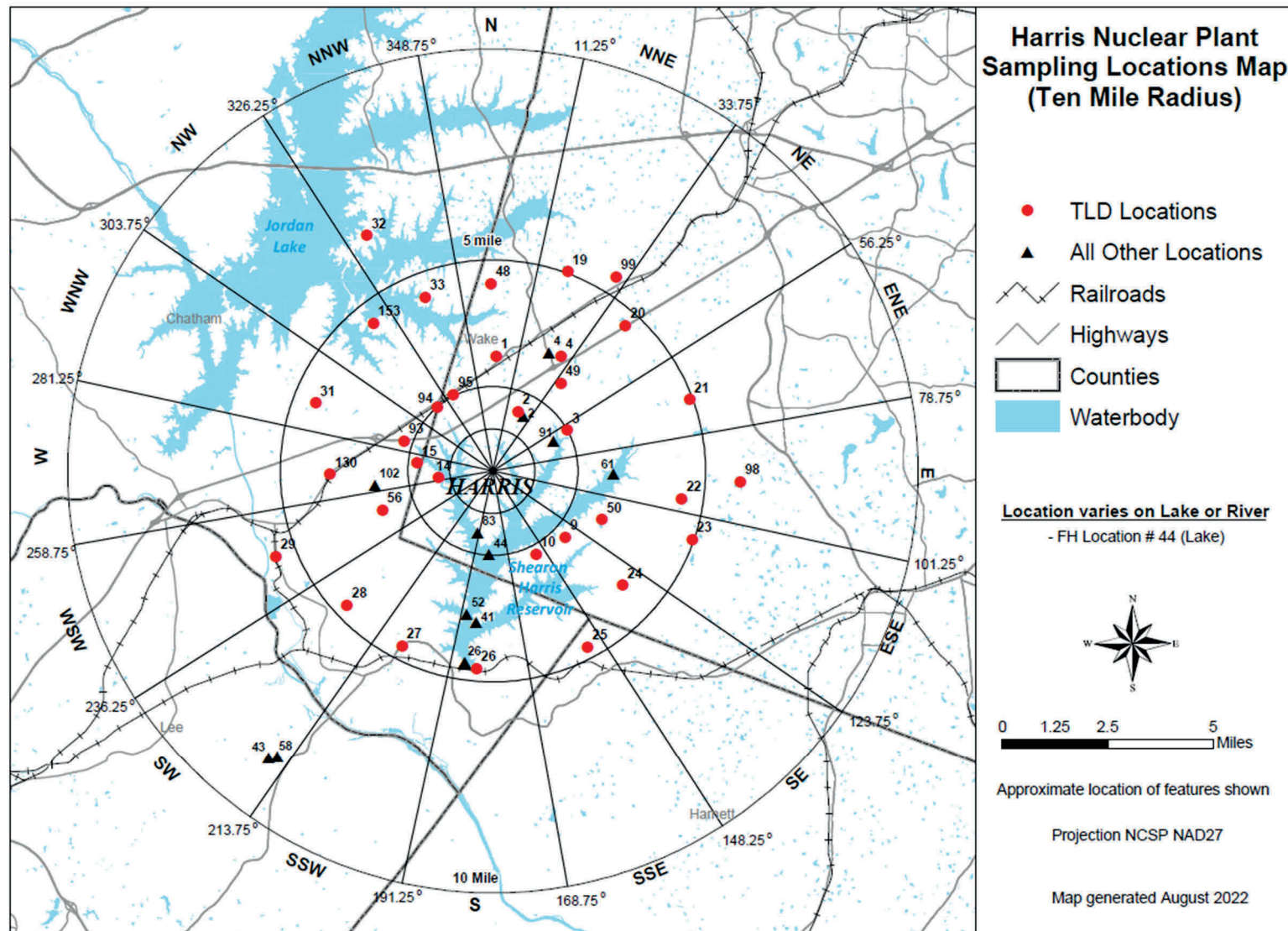


Figure 2.1-4
Harris Nuclear Plant Sampling Locations – >10 Mile Radius

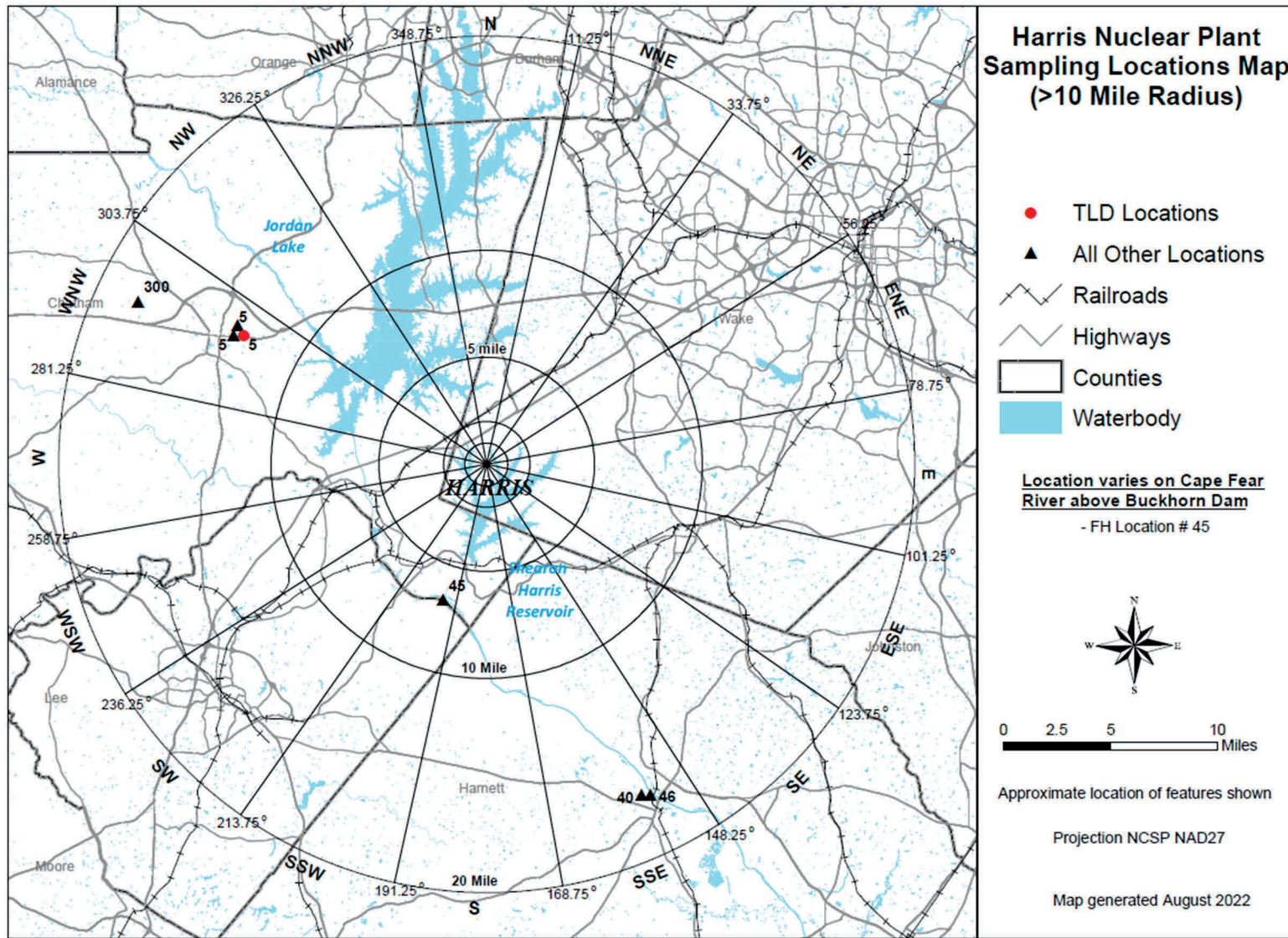


TABLE 2.1-A

HARRIS NUCLEAR PLANT

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

Table 2.1-A Codes									
A	Annual	BW	BiWeekly	FP	Food Product	Q	Quarterly	SS	Sediment Shoreline
AC	Air Cartridge	C	Control ⁽⁴⁾	GW	Ground Water	SA	Semiannually	SW	Surface Water
AP	Air Particulate	CM	Community	I	Indicator	SB	Site Boundary	W	Weekly
AV	Aquatic Vegetation	DW	Drinking Water	M	Monthly	SBT	Sediment Bottom		
BLV	Broadleaf Vegetation	FI	Fish	MK	Milk	SM	Semimonthly		

Site#	Type	Location Description ⁽³⁾	AC & AP	SW	DW	SS	SBT	AV	Fish (FI)	Milk (Mk)	BLV	GW
2	I	1.4 miles NNE	W/Q/SB									
4	I	3.1 miles NNE	W/Q/CM									
5	C	>12 miles NNW – Pittsboro ⁽⁵⁾	W/Q								M	
12	I	0.9 miles SSW									M ⁽¹⁾⁽⁷⁾	
26	I	4.7 miles S	W/Q	M/Q ⁽⁶⁾		SA		A				
40	I	17.2 miles SSE - Lillington		M/Q								
41	I	3.8 miles S				SA		A				
43	C	8.5 miles SW		M/Q								
44	I	Site varies in Harris Lake							SA			
45	C	Site varies in Cape Fear River above Buckhorn Dam							SA			
46	I	17.2 miles SSE - Lillington			M/Q							
51	I	Water Treatment Building (On Site)			M							
52	I	3.8 miles S					SA					
57	I	0.4 miles SSW										Q
58	C	8.5 miles SW			M/Q							
59	I	0.5 miles NNE										Q
60	I	0.5 miles ESE										Q
61	C	2.5 miles E						A				
63	I	0.6 miles SW	W/Q/SB								M	
68	I	0.2 miles W										Q
69	I	0.2 miles NNE										Q
70	I	0.4 miles E										Q
71	I	0.3 miles SE										Q
72	I	0.2 miles SE										Q
73	I	0.2 miles S										Q
74	I	0.2 miles SSE										Q
75	I	0.1 miles ESE										Q
77	I	0.4 miles S										Q
78	I	0.5 miles S										Q
79	I	0.5 miles S										Q
80	I	0.6 miles S										Q
81	I	0.6 miles S										Q
82	I	0.6 miles S										Q
83	I	1.6 miles SSW										Q
84	I	0.2 miles SSW										Q
85	I	0.2 miles SSW										Q
86	I	0.2 miles SW										Q
90	I	0.5 miles SSW	W/Q/SB									
91	I	1.6 miles ENE	W/Q									
102	I	2.82 miles W								SM ⁽²⁾		
300	C	>12 miles WNW – Pittsboro								SM/M ⁽⁷⁾		

(1) Broadleaf vegetation refers to any natural vegetation, plants, shrubs, or trees that have wide, flat leaves or leaves with veins which branch from a main vein. Typically leaves are only present during the growing season May through October.

(2) Goat milk is seasonally available. Typically, goats lactate during the spring, summer, and early fall (April through October).

(3) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

(4) Control sample stations (or background stations) are located in areas that are unaffected by plant operations. All other stations that have the potential to be affected by radioactive emissions from plant operations are considered indicator locations.

(5) BLV and AC/AR are sampled in the WNW Sector, this is shown in Table 4.1 of HNP ODCM Rev. 29 but is inaccurate in Table 4.2 of HNP ODCM Rev. 29 (as shown above). DRR #02443229 written for sector discrepancy between Table 4.1 & Table 4.2 of HNP ODCM Rev. 29.

- (6) Revision 29 of HNP ODCM (eff. 1SEP2022) updated the sampling frequency to match ODCM Table 4.1. However, Quarterly H-3 is not performed, it is performed more often, on a monthly basis, DRR#02463891 was written to reconcile the discrepancy between HNP ODCM Table 4.2 and Table 4.1.
- (7) Due to the closure of Manco's Dairy, Location 300 (NCR #02460334) on 13FEB2023, and the inability to locate another control dairy monthly BLV sampling was implemented. DRR #02475324 was created to track the ODCM change for monthly BLV sampling rather than seasonal.

TABLE 2.1-B

HARRIS NUCLEAR PLANT

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)

Table 2.1-B Codes			
C	Control	OR	Outer Ring
IR	Inner Ring	SI	Special Interest

Site #	Measure Type	Location ^{(1) (2)}	Distance (miles)	Sector	Site #	Measure Type	Location ^{(1) (3)}	Distance (miles)	Sector
1	IR	0.1 mi. S on SR 1134 from SR 1011 intersection	2.6	N	25	OR	0.2 mi. W on SR 1402 from intersection of SR 1400	4.7	SSE
2	IR	1.4 mi. S on SR 1134 from SR 1011 intersection	1.4	NNE	26	OR	Harris Lake Spillway	4.7	S
3	SI	HE&EC Visitor Center (Population Center)	1.9	ENE	27	OR	NC 42 @ Buckhorn United Methodist Church	4.8	SSW
4	SI	New Hill (Population Center)	3.1	NNE	28	OR	0.6 mi. on SR 1924 from intersection of SR 1916	4.8	SW
5	C	Pittsboro (Control Station)	13.3	WNW	29	OR	Parking lot on SR 1916	5.7	WSW
6	IR	Intersection of SR 1134 & SR 1135	0.8	ENE	31	OR	At intersection of SR 1908, 1909, 1910	4.7	WNW
7	IR	Extension of SR 1134	0.7	E	32	SI	Jordan Lake (Population Center)	6.4	NNW
8	IR	Dead end of road, Extension of SR 1134	0.6	ESE	33	OR	SR 1142, 1.7 mi. from intersection of SR 1141	4.5	NNW
9	IR	1 mi. S on SR 1130 from intersection of SR 1127, 1115, and 1130	2.2	SE	48	OR	SR 1142, 1.5 mi. from intersection of SR 1141	4.5	N
10	IR	SR 1130 S of intersection of SR 1127, 1115, and 1130	2.2	SSE	49	IR	SR 1127, 0.3 mi. S from intersection with US 1	2.5	NE
11	IR	SHNPP Site	0.6	S	50	SI	Holleman Crossroads (Population Center)	2.6	ESE
12	IR	SHNPP Site	0.9	SSW	56	IR	SR 1912 at intersection of SR 1912 and SR 1924	3.0	WSW
13	IR	SHNPP Site	0.7	WSW	63	IR	SHNPP Site	0.6	SW
14	IR	SHNPP Site	1.5	W	93	IR	SR 1911	2.2	WNW
15	IR	SR 1911	2.0	W	94	IR	Old US HWY 1	2.0	NW
19	OR	Cross Country Lane and Humie Olive Rd	5.0	NNE	95	IR	Bonsal Road	2.0	NNW
20	OR	US 1 at intersection SR 1149	4.5	NE	98	SI	Holly Springs School Complex (Population Center)	5.9	E
21	OR	1.2 mi. W on SR 1152 from intersection SR 1153	4.8	ENE	99	SI	Friendship School (Population Center)	5.5	NNE
22	OR	Formerly Ragan's Dairy on SR 1115	4.3	E	130	OR	Old US Hwy 1	3.9	W
23	OR	Intersection of SR 1127 and SR 1116	4.8	ESE	153	OR	Beaver Creek Road	4.5	NW
24	OR	Sweet Springs Church on SR 1116	4.0	SE					

(1) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

(2) One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. (The 40 stations is not an absolute number. The number of direct radiation monitoring stations may be reduced according to geographical limitations; e.g., at an ocean site, some sectors will be over water so that the number of dosimeters may be reduced accordingly. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information within minimal fading.)

TABLE 2.2-A**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

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

(a) For drinking water samples. This is 40 CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 20 pCi/liter may be used.

TABLE 2.2-B
REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic ^(e)	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X				
Air Particulate	Weekly				(d)	
	Quarterly	X				
Direct Radiation	Quarterly					X
Surface Water	Monthly Composite ^{(f) (h)}	X	X			
Drinking Water	Monthly Composite ^{(c) (f) (i)}	X	X		X	
Ground Water	Quarterly ^(g)	X	X			
Bottom Sediment	Semiannually	X				
Shoreline Sediment	Semiannually	X				
Milk	Semimonthly/Monthly ^{(j) (k)}	X		X		
Fish	Semiannually	X				
Aquatic Vegetation	Annually	X				
Broadleaf Vegetation	Monthly ^(a)	X				
Food Products	Monthly ^{(b) (l)}	X				

- (a) During growing season per ODCM - May through October.
- (b) If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continuously, sampling shall be monthly.
- (c) Low-level I-131 will be analyzed on each composite when the dose calculated for the consumption of the water is greater than 1 mrem/yr.
- (d) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than 10 times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.
- (e) Gamma isotopic analysis means the identification and quantification of gamma emitting radionuclides that may be attributable to the effluents from the facility.
- (f) A composite sample is one in which the rate at which the liquid sampled is uniform and in which the method of sampling employed results in a specimen that is representative of the time-averages concentration at the location being sampled. In this program composite sample aliquots shall be collected at time intervals that are very short (e.g. hourly) relative to the composite period (e.g. monthly) in order to assure obtaining a representative sample.
- (g) Groundwater samples shall be taken when the source is tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination. None of the previously identified locations have been used for drinking water since pre-operational days of Harris Nuclear Project nor have these wells ever been used for irrigation purposes. These wells were abandoned for drinking water purposes prior to plant operations. Since that time, these wells have been used to monitor the hydraulic gradient or gradient properties for the Harris Site and for the operational Radiological Environmental Monitoring Program.
- (h) The "upstream sample" shall be taken at a distance beyond significant influence of the discharge. The "downstream" sample shall be taken in an area beyond the but near the mixing zone. "Upstream" samples in an estuary must be taken far enough upstream to be beyond the plant influence. Salt water shall be sampled only when the receiving water is utilized for recreational activities.
- (i) The dose shall be calculated for the maximum organ and age group, using the methodology and parameters in the ODCM.
- (j) If milk animals are not present or unavailable for sampling at indicator locations, sampling of BLV can be substituted.
- (k) When no milk animals are available at indicator locations, milk sampling of the control location can be reduced to once per month to maintain historical data.
- (l) Attention shall be paid to including samples of tuberous and root food products.

TABLE 2.2-C

DETECTION CAPABILITIES FOR THE *A PRIORI* LOWER LIMIT OF DETECTION

Analysis	Water (pCi/liter)	Airborne Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01				
H-3	2000 ^(a)					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15					
I-131	1 ^(b)	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15			15		

(a) If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 15 pCi/liter may be used.

3.0 INTERPRETATION OF RESULTS

Review of all 2023 REMP analysis results was performed to identify changes in environmental levels as a result of plant operations. The following section depicts and explains the review of these results. Sample data for 2023 was compared to historical data. Over the years of operation, analysis and collection changes have taken place that do not allow direct comparisons for some data collected from 1984 (preoperational) through 2023. Summary tables containing 2023 information required by Technical Specifications 6.9.1.3 and HNP ODCM E.3 are located in Appendix B. REMP results for 2023 are located in Appendix E.

Evaluation for significant trends was performed for radionuclides that are listed as required within the HNP ODCM. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Other radionuclides detected that are the result of plant operation, but not required for reporting, are trended.

The HNP ODCM addresses actions to be taken if radionuclides other than those required are detected in samples collected. The occurrences of these radionuclides could be the result of HNP liquid effluents which contained the radionuclides.

All 2023 sample analysis results were reviewed to detect and identify any significant trends. All negative concentration values were replaced with zero for calculation purposes. Any zero concentrations used in tables or graphs represent activity measurements less than detectable levels.

Review of the 2023 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from HNP and surrounding areas that were attributable to plant operations. Inspection of the data showed that radioactivity concentrations were as expected and all positively identified measurements attributed to plant operations were within HNP ODCM regulatory limits; thus, presenting no significant impact to the environment or public health and safety.

Data presented in Sections 3.1 through 3.11 support the conclusion that there was no significant increase in radioactivity in the environment around Harris Nuclear Plant due to station operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data, shown in Section 3.12, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Airborne particulate and radioiodine samples were composited by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly.

In 2023, 364 radioiodine and particulate samples were collected and analyzed, 312 from six indicator locations and 52 at the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). The radioiodine samples received a weekly gamma analysis.

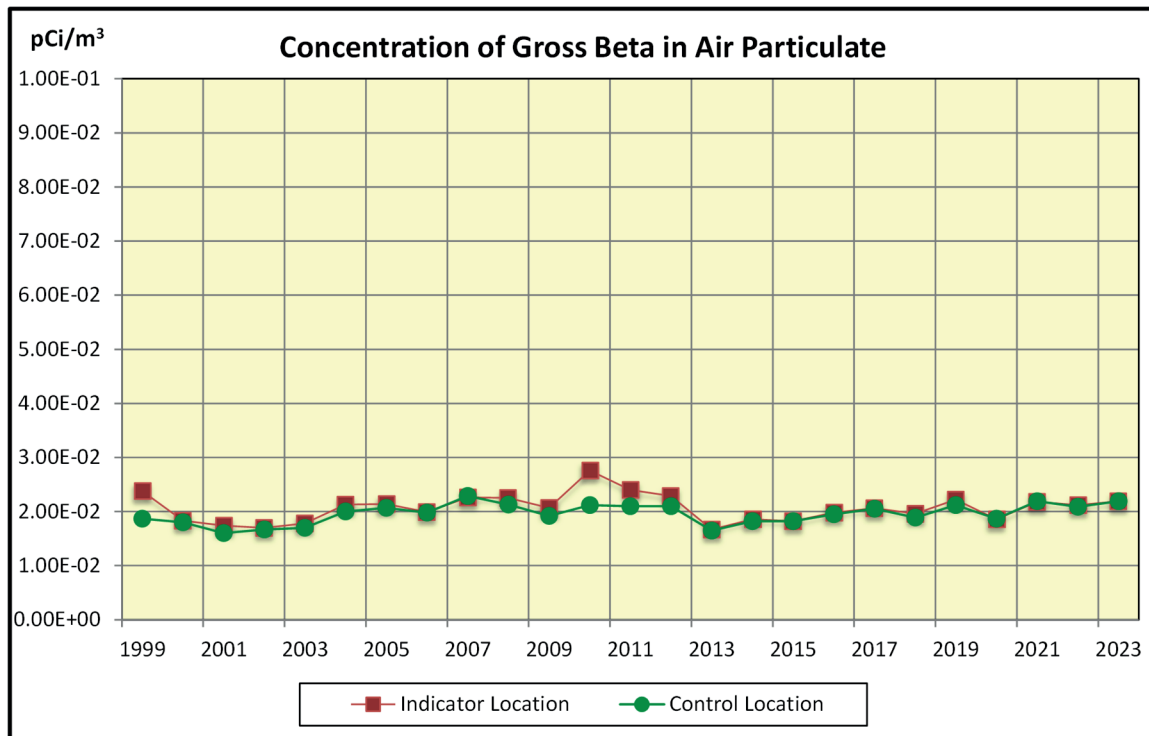
Figure 3.1 shows individual sample gross beta results for the indicator location with highest annual mean and the control location samples during 2023. The two sample locations' results are similar in concentration and have varied negligibly.

There were no detectable gamma emitters attributable to plant operations identified for particulate filters analyzed during 2023. Table 3.1-A shows the highest indicator annual mean and control location annual mean for gross beta in air particulate.

There was no detectable I-131 in air radioiodine samples analyzed in 2023. Table 3.1-B shows the highest indicator annual mean and control location annual mean for I-131 since 1999. No I-131 activity due to HNP operations has been detected during the entire operating history of the plant.

K-40 and Be-7 were observed in air samples and quarterly particulate composites but are naturally occurring radionuclides.

Figure 3.1



There is no reporting level for gross beta in air particulate

Table 3.1-A Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1999	2.38E-2	1.87E-2
2000	1.83E-2	1.80E-2
2001	1.74E-2	1.60E-2
2002	1.70E-2	1.67E-2
2003	1.78E-2	1.70E-2
2004	2.13E-2	2.00E-2
2005	2.14E-2	2.07E-2
2006	1.99E-2	1.98E-2
2007	2.26E-2	2.29E-2
2008	2.25E-2	2.13E-2
2009	2.07E-2	1.92E-2
2010	2.76E-2	2.12E-2
2011	2.40E-2	2.10E-2
2012	2.29E-2	2.10E-2
2013	1.67E-2	1.65E-2
2014	1.86E-2	1.82E-2
2015	1.82E-2	1.82E-2
2016	1.98E-2	1.95E-2
2017	2.06E-2	2.05E-2
2018	1.96E-2	1.89E-2
2019	2.22E-2	2.12E-2
2020	1.86E-2	1.87E-2
2021	2.18E-2	2.19E-2
2022	2.12E-2	2.09E-2
2023	2.19E-2	2.19E-2

Table 3.1-B Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0
2006	0.00E+0	0.00E+0
2007	0.00E+0	0.00E+0
2008	0.00E+0	0.00E+0
2009	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0
2011 ⁽¹⁾	1.66E-1	1.08E-1
2012	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0
2014 ⁽²⁾	0.00E+0	0.00E+0
2015	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0
2019	0.00E+0	0.00E+0
2020	0.00E+0	0.00E+0
2021	0.00E+0	0.00E+0
2022	0.00E+0	0.00E+0
2023	0.00E+0	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 2011 concentrations affected by Fukushima Dai-ichi

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014 No analytical changes were observed due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.2 DRINKING WATER

Gross beta analysis and gamma spectroscopy were performed on 39 drinking water monthly composite samples. Two indicator locations were sampled, along with one control location. Indicator location 51 was analyzed monthly for tritium, while the two remaining locations analyses consisted of a quarterly composite.

No gamma emitting radionuclides attributable to plant operations were identified in any 2023 drinking water samples. There have been no gamma emitting radionuclides attributable to plant operations identified in drinking water samples during the entire operating history of the plant.

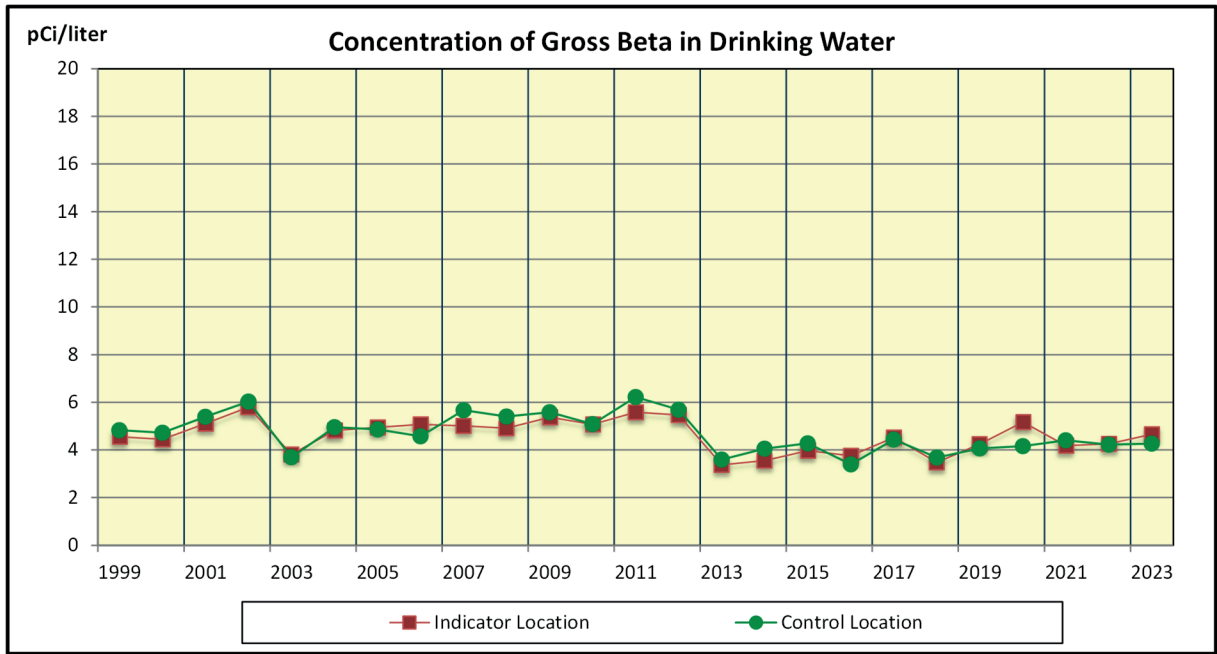
Figure 3.2-1 and Table 3.2 shows highest annual mean gross beta concentrations for the indicator location and control location since 1999. The highest annual mean for the indicator location (downstream of the plant effluent release point) was 4.66 pCi/l in 2023 and the control location concentration was 4.27 pCi/l. The gross beta mean indicator activity and mean control activity increased in 2019 due to an analytical method change affecting analytical sensitivities (NCR # 02303027).

Tritium was detected in thirteen indicator samples from Location 51 and in no control samples during 2023. The mean indicator tritium concentration for 2023 was 2,883 pCi/l, 14.42% of reporting level. Figure 3.2-2 and Table 3.2 display the highest indicator and control location annual mean concentrations for tritium since 1999.

The dose for consumption of water was less than one mrem per year, historically and for 2023; therefore, low-level iodine analysis is not required.

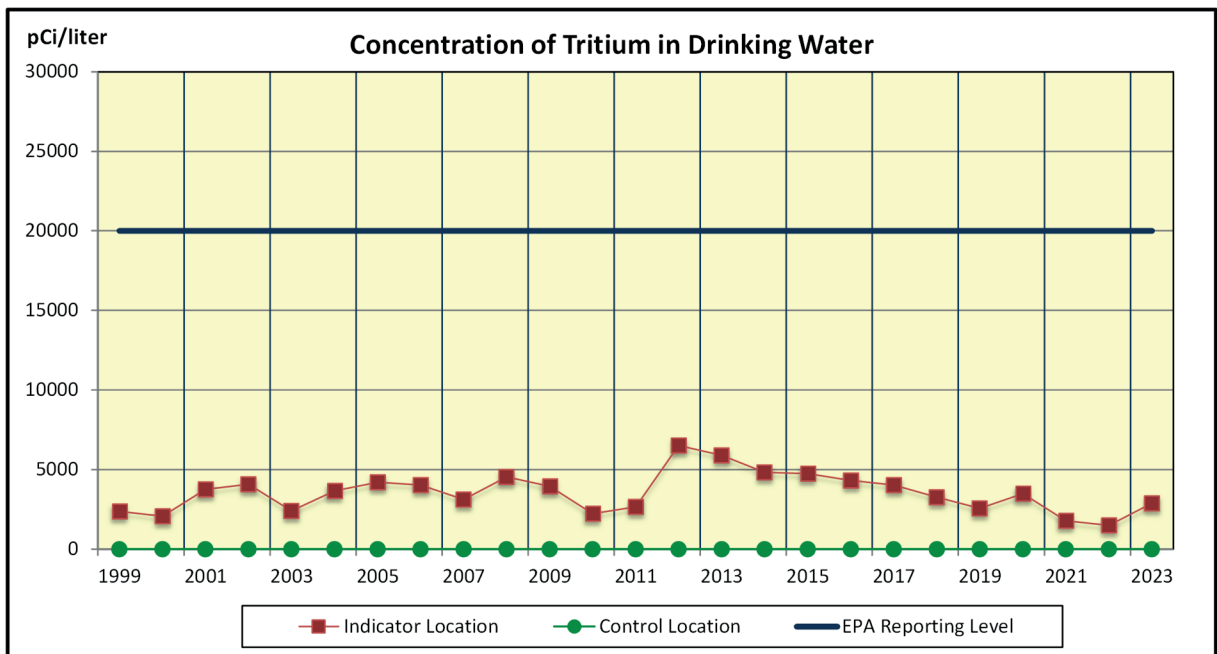
K-40 is a naturally occurring radionuclides that was observed in drinking water samples in 2023.

Figure 3.2-1



There is no reporting level for gross beta in drinking water

Figure 3.2-2



Prior to 2009, drinking water indicator location # 51 was previously not classified as a public drinking water source. In 2009, location # 51 was classified as a public drinking water source; however, it is not a community drinking water source.

Table 3.2 Mean Concentration of Radionuclides in Drinking Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1999	4.55E+0	4.83E+0	2.37E+3	0.00E+0
2000	4.45E+0	4.73E+0	2.06E+3	0.00E+0
2001	5.11E+0	5.39E+0	3.76E+3	0.00E+0
2002	5.80E+0	6.03E+0	4.07E+3	0.00E+0
2003	3.81E+0	3.69E+0	2.40E+3	0.00E+0
2004	4.82E+0	4.96E+0	3.66E+3	0.00E+0
2005	4.95E+0	4.86E+0	4.20E+3	0.00E+0
2006	5.07E+0	4.58E+0	4.03E+3	0.00E+0
2007	5.01E+0	5.67E+0	3.12E+3	0.00E+0
2008	4.92E+0	5.40E+0	4.54E+3	0.00E+0
2009	5.37E+0	5.58E+0	3.95E+3	0.00E+0
2010	5.07E+0	5.09E+0	2.23E+3	0.00E+0
2011	5.58E+0	6.22E+0	2.65E+3	0.00E+0
2012	5.47E+0	5.69E+0	6.51E+3	0.00E+0
2013	3.37E+0	3.60E+0	5.89E+3	0.00E+0
2014	3.56E+0	4.06E+0	4.83E+3	0.00E+0
2015	3.97E+0	4.28E+0	4.74E+3	0.00E+0
2016	3.76E+0	3.40E+0	4.32E+3	0.00E+0
2017	4.52E+0	4.44E+0	4.02E+3	0.00E+0
2018	3.48E+0	3.68E+0	3.27E+3	0.00E+0
2019 ⁽¹⁾	4.25E+0	4.07E+0	2.57E+3	0.00E+0
2020	5.17E+0	4.16E+0	3.48E+3	0.00E+0
2021	4.18E+0	4.41E+0	1.77E+3	0.00E+0
2022	4.26E+0	4.23E+0	1.50E+3	0.00E+0
2023	4.66E+0	4.27E+0	2.88E+3	0.00E+0

0.00E+0 indicates no detectable measurements

Prior to 2009, drinking water indicator location # 51 was previously not classified as a public drinking water source. In 2009, location # 51 was classified as a public drinking water source; however, it is not a community drinking water source.

(1) Gross beta preparation/analysis methodology change (NCR # 02303027).

3.3 SURFACE WATER

A total of 39 monthly surface water samples were analyzed for gamma emitting radionuclides from two indicator locations and one control location. Indicator location 26 was analyzed monthly for tritium, while the two remaining locations analyses consisted of a quarterly composite.

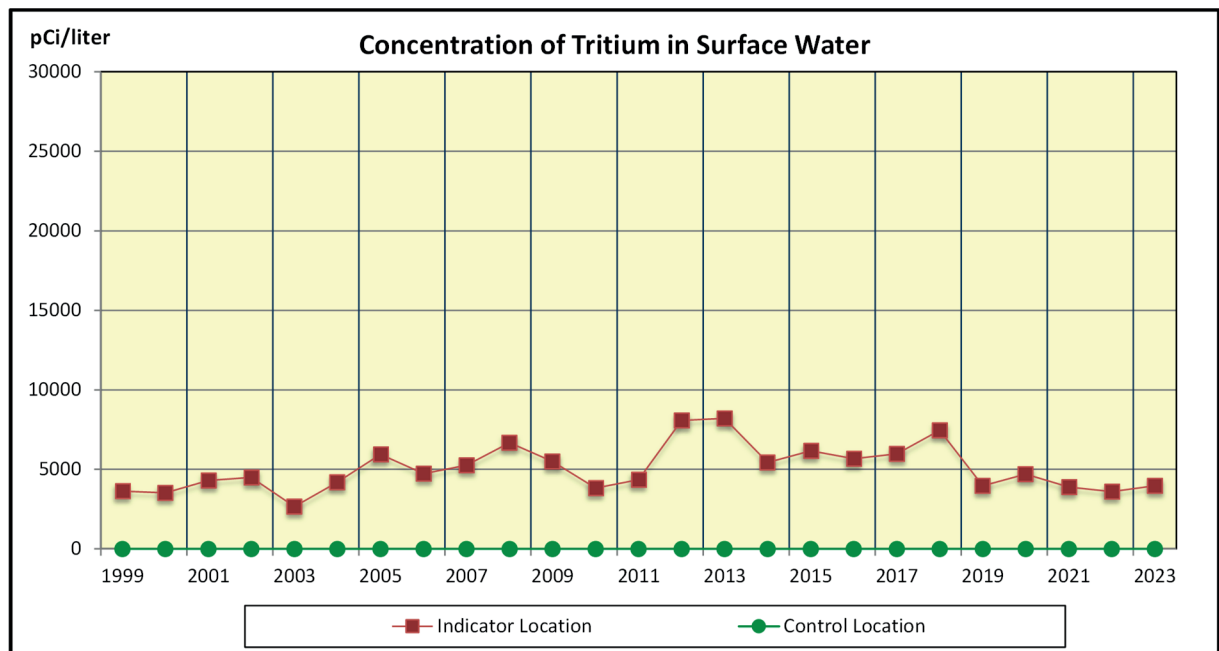
Location 26, Harris Lake Spillway, is the only indicator location sample that contained tritium with an average concentration of 3,965 pCi/l and showed a range of activities from 3,240 to 4,870 pCi/l. Tritium was not detected in the four control samples collected during 2023.

No gamma emitting radionuclides attributable to plant operations were identified in 2023 surface water samples.

Table 3.3 and Figure 3.3 display the highest indicator and control annual means for tritium since 1999.

K-40 is a naturally occurring radionuclide that was observed in some surface water samples in 2023.

Figure 3.3



There is no reporting level for tritium in surface water, however, if no drinking water pathway exists, a value of 30,000 pCi/l may be used.

Table 3.3 Mean Concentrations of Tritium in Surface Water

Year	Indicator Location (pCi/l)	Control Location (pCi/l)
1999	3.63E+3	0.00E+0
2000	3.52E+3	0.00E+0
2001	4.31E+3	0.00E+0
2002	4.49E+3	0.00E+0
2003	2.67E+3	0.00E+0
2004	4.20E+3	0.00E+0
2005	5.94E+3	0.00E+0
2006	4.73E+3	0.00E+0
2007	5.26E+3	0.00E+0
2008	6.68E+3	0.00E+0
2009	5.50E+3	0.00E+0
2010	3.83E+3	0.00E+0
2011	4.36E+3	0.00E+0
2012	8.08E+3	0.00E+0
2013	8.21E+3	0.00E+0
2014	5.44E+3	0.00E+0
2015	6.17E+3	0.00E+0
2016	5.68E+3	0.00E+0
2017	5.98E+3	0.00E+0
2018	7.46E+3	0.00E+0
2019	3.97E+3	0.00E+0
2020	4.71E+3	0.00E+0
2021	3.89E+3	0.00E+0
2022	3.60E+3	0.00E+0
2023	3.97E+3	0.00E+0

0.00E+0 indicates no detectable measurements

3.4 GROUND WATER

Twenty-one indicator ground water sample locations were sampled quarterly via grab samples on site at HNP, there is no control location. In total, eighty-four ground water samples were analyzed for gamma emitters and tritium in 2023. The measured ground water gamma and tritium concentrations were below environmental requirements stated in the HNP ODCM.

No gamma emitting radionuclides attributable to plant operations were identified in 2023 ground water samples.

Tritium was detected in some ground water samples, ranging from 192 pCi/l to 681 pCi/l in 2023; however, the results are well below the EPA reportable drinking water limit (20,000 pCi/l) and non-drinking water limit (30,000 pCi/l). The ground water wells, located on site at HNP, are monitoring wells and are not a water supply for drinking or irrigation. Therefore, there is no radiological dose via this pathway.

K-40 is a naturally occurring radionuclides that was observed in some ground water samples in 2023.

3.5 MILK

Semimonthly grab samples are collected from the control location and indicator location from late spring to late fall. When the indicator location is not available, the control location is sampled monthly via grab samples.

A total of 14 milk samples were analyzed by gamma spectroscopy and low-level iodine during 2023. One indicator goat milk location was sampled from late spring to late fall and one control cow milk location was sampled once prior to ceasing operation.

On February 13, 2023, location 300, Manco's Dairy, (control location) ceased operation (NCR # 02460334). A new control dairy could not be located. Indicator milk (location 102, Goat Farm) is only available seasonably usually April through October. Therefore, monthly broadleaf vegetation sampling was implemented. Prior to the cessation of the control dairy, broadleaf vegetation sampling had only been when seasonably available, usually May through October. DRR # 02475324 was created for HNP ODCM changes to broadleaf vegetation sampling.

There were no gamma emitting radionuclides attributable to plant operations identified in milk samples in 2023. However, it is not unusual for Cs-137 to be present in milk samples. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from the indicator goat milk location in the past.

K-40 is a naturally occurring radionuclide that was observed in milk samples in 2023.

3.6 BROADLEAF VEGETATION

Gamma spectroscopy was performed on 30 broadleaf vegetation samples collected in 2023. Two indicator locations and one control location were sampled.

Revision 29 of the HNP ODCM states that Broadleaf vegetation is sampled during the growing season (May through October). On February 13, 2023, location 300, Manco's Dairy, (control location) ceased operation (NCR # 02460334). A new control dairy could not be located. Indicator milk (location 102, Goat Farm) is only available seasonably usually April through October. Therefore, monthly broadleaf vegetation sampling was implemented in March of 2023. DRR # 02475324 was created for HNP ODCM changes to broadleaf vegetation sampling.

Control broadleaf vegetation location 5 was physically relocated from the NNW sector (>12 miles, Pittsboro) where it was sampled in the yard of a private resident to the WNW sector (13.3 miles, Pittsboro) at the same physical location as the other location 5 control attributes. This change was effective with the implementation of Revision 29 of the HNP ODCM (1SEP2022).

No gamma emitting radionuclides, other than naturally occurring, were reported in vegetation samples. However, it is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations in the past.

K-40 and Be-7 are naturally occurring radionuclides that were observed in broadleaf vegetation samples in 2023.

3.7 AQUATIC VEGETATION

In 2023, three aquatic vegetation samples were collected from Harris Lake, two indicator locations and one control location were sampled. The aquatic vegetation samples are sampled annually. The aquatic vegetation samples (Lyngbya and Hydrilla) from Harris Lake are not consumed by humans, thus pose no radiological dose to the general public by the ingestion pathway.

There were no gamma emitting radionuclides attributable to plant operations identified in any aquatic vegetation samples in 2023.

No long-term trends have been readily observed in these samples.

K-40 and Be-7 are naturally occurring radionuclides that were observed in aquatic vegetation samples in 2023.

3.8 FISH

Gamma spectroscopy was performed on the edible portions of the 12 fish samples collected semiannually during 2023; four samples of bottom-feeding species (catfish) and eight samples of free-swimming species (sunfish and largemouth bass) from the indicator and control locations.

There were no gamma emitting radionuclides attributable to plant operations identified in any fish samples in 2023.

K-40 is a naturally occurring radionuclide that was observed in fish samples collected during 2023.

3.9 SHORELINE SEDIMENT

Shoreline sediment samples were collected semiannually in 2023 from two indicator locations. There is no control location for this sample media type.

Samples were dried, then sifted to remove rocks and clams prior to analysis. Gamma analyses of the four shoreline sediments detected natural activity in the samples collected during 2023. No long-term trends are readily observed in these samples.

K-40 is a naturally occurring radionuclide that was observed in shoreline sediment samples collected during 2023.

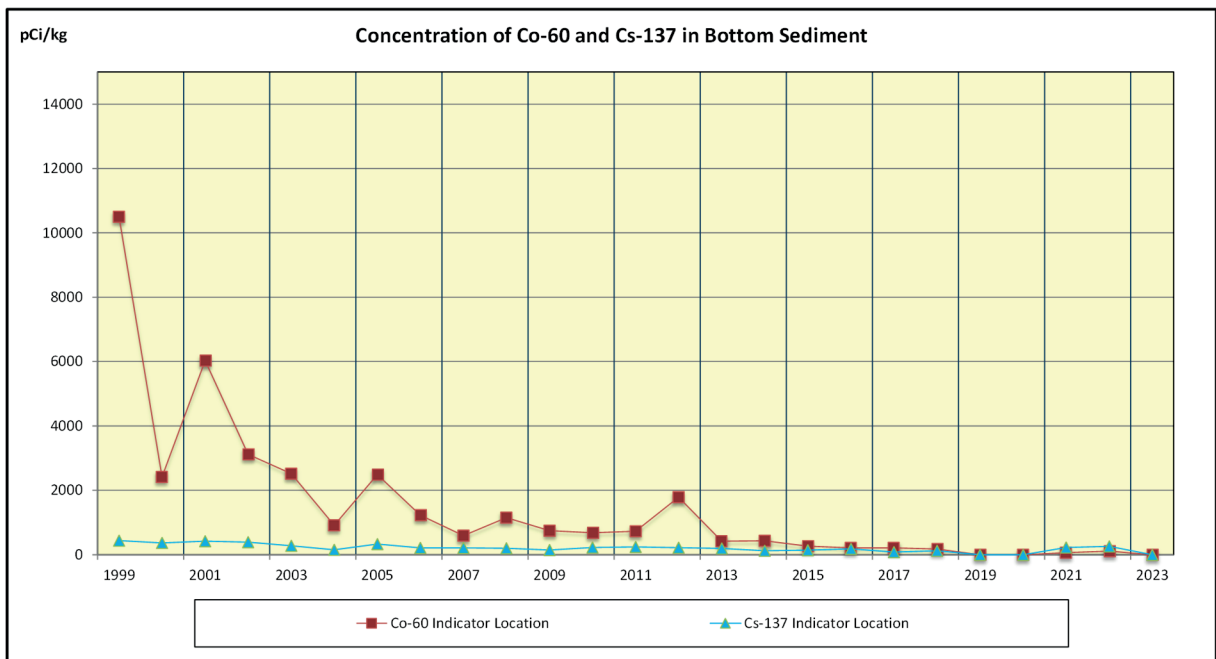
3.10 BOTTOM SEDIMENT

During 2023, a total of two bottom sediment samples were analyzed from the indicator location. There is no control location for bottom sediment.

Samples were dried, then sifted to remove rocks and clams prior to gamma analysis. Figure 3.10 and Table 3.10 provide individual sample gamma results for the highest annual mean indicator location concentrations since 1999 for Co-60 and Cs-137.

Naturally occurring K-40 was observed in some bottom sediment samples collected during 2023.

Figure 3.10



There is no reporting level for Co-60 or Cs-137 in Bottom Sediment.

Table 3.10 Mean Concentration of Radionuclides in Bottom Sediment

YEAR	Control Location	Co-60 (pCi/kg) Indicator Location	Cs-137 (pCi/kg) Indicator Location
1999	No Control	1.05E+4	4.40E+2
2000	No Control	2.42E+3	3.69E+2
2001	No Control	6.03E+3	4.20E+2
2002	No Control	3.12E+3	3.91E+2
2003	No Control	2.52E+3	2.78E+2
2004	No Control	9.17E+2	1.52E+2
2005	No Control	2.49E+3	3.33E+2
2006	No Control	1.23E+3	2.11E+2
2007	No Control	5.92E+2	2.15E+2
2008	No Control	1.15E+3	1.99E+2
2009	No Control	7.50E+2	1.50E+2
2010	No Control	6.84E+2	2.23E+2
2011	No Control	7.30E+2	2.43E+2
2012	No Control	1.79E+3	2.19E+2
2013	No Control	4.20E+2	1.94E+2
2014 ⁽¹⁾	No Control	4.31E+2	1.26E+2
2015	No Control	2.66E+2	1.39E+2
2016	No Control	2.13E+2	1.85E+2
2017	No Control	2.14E+2	8.35E+1
2018	No Control	1.77E+2	1.25E+2
2019	No Control	0.00E+0	0.00E+0
2020	No Control	0.00E+0	0.00E+0
2021	No Control	6.40E+1	2.23E+2
2022	No Control	1.12E+2	2.61E+2
2023	No Control	0.00E+0	0.00E+0

(1) 2014 Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were observed due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.11 DIRECT GAMMA RADIATION

3.11.1 ENVIRONMENTAL TLD

The Harris Updated Final Safety Analysis Report (UFSAR) Section 2.1.1.2 identifies that the minimum distance (± 25 ft.) and direction from the reactor to an exclusion area boundary is 6790 ft. ESE. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. Harris has forty-one routine monitoring stations. Thermoluminescent dosimeter (TLD) locations designated as "inner ring" are located in each of the sixteen meteorological sectors in the general area of the Site Boundary. The eighteen inner ring TLDs are used as indicators. TLD locations designated as "outer ring" are outside the Site Boundary, in each of the sixteen meteorological sectors, and are within 6 – 8 km from the site. All sixteen of the outer ring TLD locations are used as indicators. The balance of the stations are placed in locations such as population centers, nearby residences, or schools and are designated as "special interest" and one "control" location. These locations were chosen to reduce the probability of influence from Harris operation on data. The control location is not used as background subtraction in the TLD analysis. Its purpose is to provide a comparison to indicator locations.

TLDs were used to monitor ambient radiation exposures in the plant environs. In 2023, 163 TLDs were analyzed, 159 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly. The TLD with the highest annual mean of 17.7 mR/Std Qtr. was at indicator location #49, (SR 1127, 0.3 mi. S from Intersection of with US 1) located 2.5 miles NE of the plant.

On 8JAN2020 dual TLDs (alpha and bravo) at each sampling location were implemented at HNP to meet American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)."

REMP TLD Location #19 (0.6 mi. E on SR 1142 from Intersection of SR 1141, NNE Sector, 5.0 mi. from site) was minimally moved on 15APR2020 from the yard of a private residence to a power pole nearby in the same sector (Humie Olive Rd, NNE Sector 4.95 mi. from site). DRR # 02326048 was initiated to document the location change of TLD #19 and was incorporated in Revision 29 of the HNP ODCM (eff. 1SEP2022). An additional change occurred in Rev. 29 of the HNP ODCM, more descriptive names for physical TLD locations were added to ODCM Table 4.3 and HNP AREOR Table 2.1-B.

Comparison of the average annual TLD exposure within the area of the Site Boundary (inner ring) of the plant with a distance of 6 – 8 km (outer ring) and the "special interest" and control since 1999 is presented in Figure 3.11 and Table 3.11.

Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The

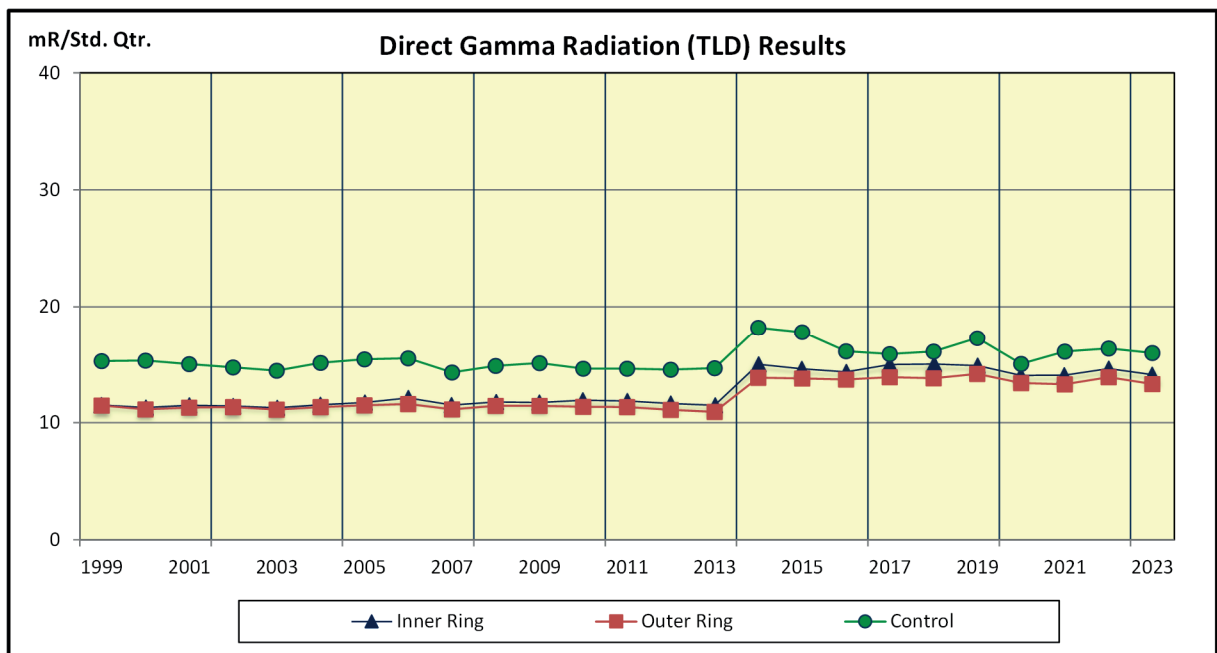
low and high ranges are determined by the historical average $\pm$ two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, “Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD).” The WP-RP-ALL-0030 – Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for the fleet TLD programs.

TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. Quarterly TLD results are in Appendix E.

The fourth quarter 2023 TLD from location 19 (Cross Country Lane and Humie Olive Rd, 4.95 mi. NNE) result of 20.3 mR/Std Qtr exceeded the location’s acceptance range. Investigation did not indicate any analytical abnormalities and the result is considered valid. No noted changes at the physical location were noted. An investigation was performed (NCR #02504806) and the exceedance of the acceptance range was not deemed to be due to plant influence.

A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in Section 4.7.

Figure 3.11



There is no reporting level for Direct Radiation (TLD).

Table 3.11 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/Std. Qtr.)	Outer Ring Average (mR/Std. Qtr.)	Control Average (mR/Std. Qtr.)
1999	1.15E+1	1.15E+1	1.53E+1
2000	1.13E+1	1.12E+1	1.54E+1
2001	1.15E+1	1.13E+1	1.50E+1
2002	1.14E+1	1.14E+1	1.48E+1
2003	1.13E+1	1.11E+1	1.45E+1
2004	1.16E+1	1.14E+1	1.52E+1
2005	1.18E+1	1.15E+1	1.55E+1
2006	1.21E+1	1.16E+1	1.55E+1
2007	1.15E+1	1.12E+1	1.43E+1
2008	1.18E+1	1.15E+1	1.49E+1
2009	1.18E+1	1.15E+1	1.51E+1
2010	1.19E+1	1.14E+1	1.47E+1
2011	1.19E+1	1.14E+1	1.47E+1
2012	1.17E+1	1.11E+1	1.46E+1
2013	1.15E+1	1.09E+1	1.47E+1
2014 ⁽¹⁾	1.50E+1	1.39E+1	1.82E+1
2015	1.46E+1	1.38E+1	1.78E+1
2016	1.44E+1	1.37E+1	1.61E+1
2017	1.50E+1	1.39E+1	1.59E+1
2018	1.50E+1	1.38E+1	1.61E+1
2019	1.49E+1	1.42E+1	1.73E+1
2020	1.41E+1	1.34E+1	1.51E+1
2021	1.41E+1	1.33E+1	1.61E+1
2022	1.47E+1	1.39E+1	1.64E+1
2023	1.41E+1	1.33E+1	1.60E+1

(1) In 1Q2014 Panasonic TLDs were replaced with Harshaw TLDs causing a step change in activity (NCR # 01982479).

3.12 LAND USE CENSUS

The 2023 HNP Annual Land Use Census was conducted May 15-16, 2023, as required by the HNP ODCM 4.12.2. The Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the plant, the nearest location from the site boundary in each of the sixteen meteorological sectors, which includes: the nearest residence, the nearest garden greater than 50 square meters (500 square feet), the nearest milk-giving animal, and the nearest meat animal (only identified at the nearest garden or closer in each sector). Poultry and egg laying animals were not classified as meat animals for the purposes of the Land Use Census.

Table 3.12 summarizes the comparison between the 2022 and 2023 census results. A map indicating identified locations is shown in Figure 3.12.

During the 2023 census no new meat animals nearer than existing gardens, or new milk locations were identified. The nearest residence is located in the NNW sector at 1.55 miles. No environmental program changes were required as a result of the 2023 land use census.

Table 3.12 Harris Land Use Census Comparison (2022 – 2023)

Nearest Pathway (Miles)

SECTOR	RESIDENCE		GARDEN		MEAT ANIMAL ⁽¹⁾		MILK ANIMAL	
	2022	2023	2022	2023	2022	2023	2022	2023
North	2.21	2.21	2.29	2.29	2.21	2.21	---	---
North-Northeast	1.81	1.81	1.81	1.81	---	---	---	---
Northeast	2.29	2.29	2.92	2.92	---	---	---	---
East-Northeast	1.78	1.78	1.78	1.78	---	---	---	---
East	1.88	1.88	2.15	2.15	---	---	---	---
East-Southeast	2.56	2.56	4.83	4.63*	---	---	---	---
Southeast	4.11	4.11	---	---	---	---	---	---
South-Southeast	4.26	4.26	4.82	4.82	---	---	---	---
South	---	---	---	---	---	---	---	---
South-Southwest	3.82	3.82	3.94	3.94	---	---	---	---
Southwest	2.76	2.76	4.32	4.32	---	---	---	---
West-Southwest	4.29	4.29	4.29	4.29	---	---	---	---
West	2.75	2.75	2.82	2.82	---	---	2.82 ⁽²⁾	2.82 ⁽²⁾
West-Northwest	2.13	2.13	2.91	2.91	---	---	---	---
Northwest	2.11	2.11	2.58	2.58	---	---	---	---
North-Northwest	1.55	1.55	1.82	1.55*	1.82	---*	---	---

NOTE: Sector and distance determined by Global Positioning System.

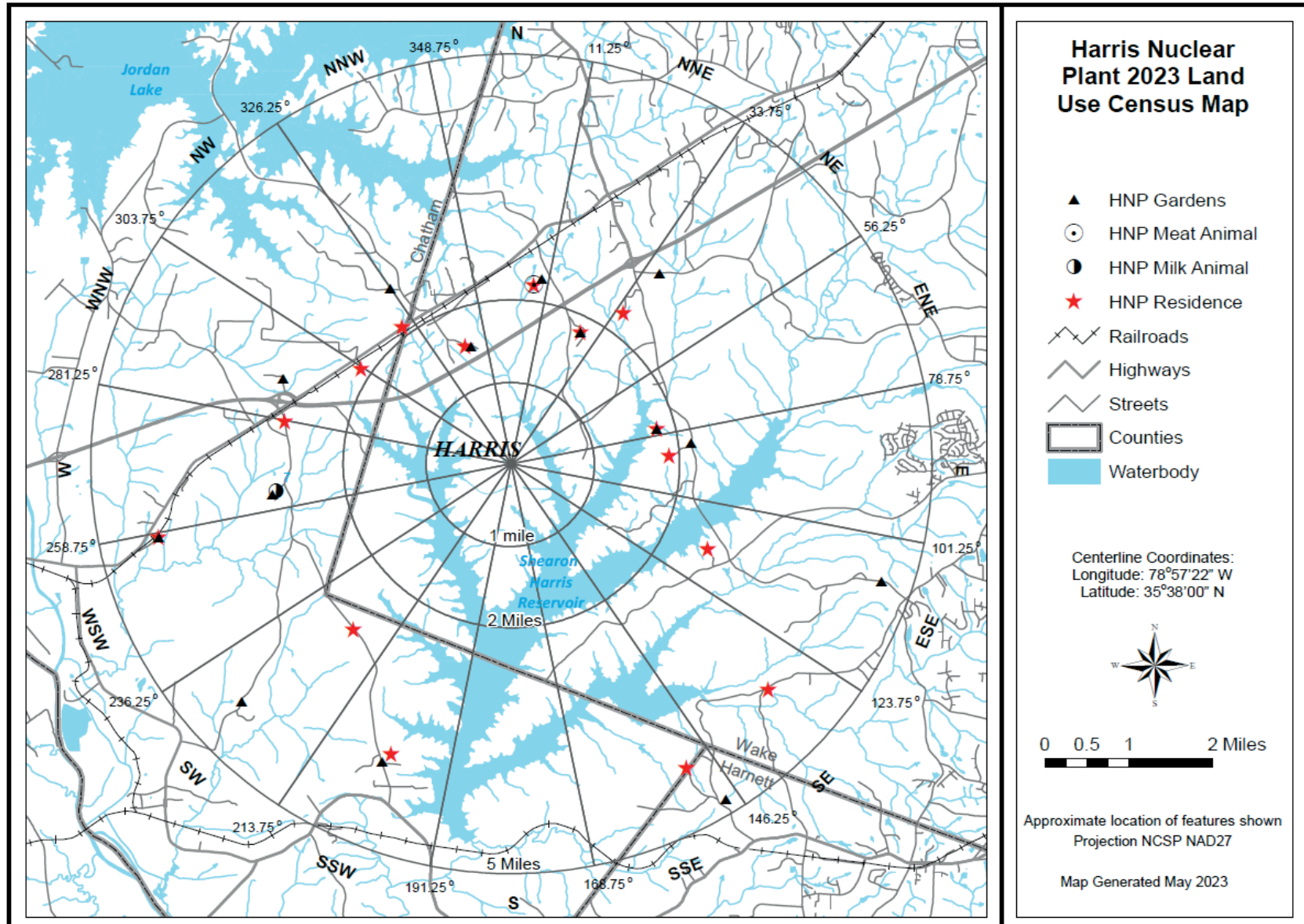
* Represents a change from the previous year.

--- Indicates no occurrences within the 5-mile radius

(1) Meat animal was only identified at the nearest garden or closer in each sector. Poultry and egg laying animals were not classified as meat animals for the 2023 census.

(2) Goat Milk - Milk is used to feed goat kids, make a small quantity of cheese, and to make soap for personal use. Owner said they can now supply enough milk to participate in the HNP REMF. This dairy is not required due to HNP already having a dairy within 5 km (3.11 miles) and the dose being <1.0 mRem/year.

Figure 3.12



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

EnRad Laboratories and the Environmental Services Group performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include tritium analyses in drinking water, surface water, and ground water samples; beta analysis in drinking water samples, and Low-Level Iodine-131 analysis in milk samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear

plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM

EnRad Laboratories routinely participates with the North Carolina Department of Health and Human Services in an intercomparison program. EnRad Laboratories sends Harris Nuclear Plant Radiological Environmental Monitoring Program surface water, ground water, cow milk, air particulate, air radioiodine, fish, bottom sediment, and shoreline sediment samples to the North Carolina Department of Health and Human Services, Division of Public Health for intercomparison analysis.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

APPENDIX A

ENVIRONMENTAL SAMPLING

&

ANALYSIS PROCEDURES

2023

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of environmental media at Harris Nuclear Plant was required to ensure compliance with the Harris Nuclear Plant Offsite Dose Calculation Manual. Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved.

Environmental sampling was performed by EnRad Laboratories and Environmental Services. Environmental analysis was performed by EnRad Laboratories and Dosimetry and Records.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section.

I. CHANGE OF SAMPLING PROCEDURES

Procedure 753, Milk Sampling at Harris Nuclear Plant was revised due to the closure of control milk location 300, Manco's Dairy (NCR# 02460334). A caveat was also added per HNP ODCM Table 4.1 that if milk animals are not present or unavailable for sampling at indicator location, sampling of broadleaf vegetation can be substituted. The indicator location 102, R Farm, is a goat farm and only provides seasonal availability. Therefore broadleaf sampling was implemented monthly. DRR# 02475324 was created to track the changes for the HNP ODCM.

Procedure 751, Broadleaf Vegetation Sampling at Harris Nuclear Plant was revised to implement monthly broadleaf sampling due to the closure of the control milk location 300, Manco's Dairy (NCR# 02460334) and the indicator location dairy (102, R Farm - goats) only being seasonally available. DRR# 02475324 was created to track the changes for the HNP ODCM.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish, food products, aquatic vegetation, and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.), and then transferred to an appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or Perkin-Elmer 3100TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable, and sample contamination has not occurred.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a laboratory fortified blank and blank to verify instrument performance and ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

There were no changes to analysis procedures implemented during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2023

HARRIS NUCLEAR PLANT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Air Particulate (pCi/m ³)	Gross Beta 364 ⁽⁴⁾	See Table 2.2-C	2.13E-02 (312/312) 9.53E-03 – 4.32E-02	Loc. # 90 0.5 miles SSW	2.19E-02 (52/52) 1.01E-02 – 4.20E-02	Loc. # 5 2.19E-02 (52/52) 1.06E-02 – 4.18E-02	0
	Gamma 28	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	I-131 364 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water ⁽⁷⁾ (pCi/l)	Gross Beta 39 ⁽⁴⁾	See Table 2.2-C	4.52E+00 (10/26) 3.17E+00 – 5.78E+00	Loc. # 46 NE Harnett Metro Water Treatment Plant - Lillington 17.2 miles SSE	4.66E+00 (7/13) 3.17E+00 – 5.78E+00	Loc. # 58 4.27E+00 (8/13) 3.47E+00 – 5.09E+00	0
	Gamma 39 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium ^{(5) (4)} 21	See Table 2.2-C	2.88E+03 (13/17) 1.67E+03 – 3.84E+03	Loc. # 51 Water Treatment Building on Site	2.88E+03 (13/13) 1.67E+03 – 3.84E+03	All less than LLD	0
Surface Water (pCi/l)	Gamma 39 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium ^{(5) (4)} 21	See Table 2.2-C	3.97E+03 (13/17) 3.24E+03 – 4.87E+03	Loc. # 26 Harris Lake Spillway 4.7 miles S	3.97E+3 (13/13) 3.24E+03 – 4.87E+03	All less than LLD	0

HARRIS NUCLEAR PLANT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Ground Water (pCi/l)	Gamma 84	See Table 2.2-C	All less than LLD	----	----	No Control	0
	Tritium 84	See Table 2.2-C	3.66E+02 (13/72) 1.92E+02 – 6.81E+02	Loc. # 83 On Site (BD-MW16) along Cooling Tower Blowdown line 1.6 miles SSW	6.28E+02 (4/4) 5.67E+02 – 6.81E+02	No Control	0
Milk (pCi/l)	I-131 14 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Gamma 14 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma 30	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Aquatic Vegetation (pCi/kg, wet)	Gamma 3	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0

HARRIS NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)

Shearon Harris Nuclear Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Sediments -- Shoreline (pCi/kg, dry)	Gamma 4	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
Sediments -- Bottom (pCi/kg, dry)	Gamma 2	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
Direct Radiation (TLD) (mR/Std Qtr) ⁽⁶⁾	TLD Readout 163 ⁽⁴⁾	-----	1.37E+01 (159/159) 9.71E+00 – 1.94E+01	Loc. # 49 SR 1127, 0.3 mi S from intersection w/US 1, 2.5 mi NE	1.77E+01 (4/4) 1.70E+01 – 1.94E+01	Loc. # 5 1.60E+01 (4/4) 1.51E+01 – 1.76E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background, which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. Although quarterly composite samples are required, monthly composite samples are used to provide more frequent and sensitive analyses for some locations.
6. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).
7. Drinking Water 51 (DW-51) has been included, as of 2009, in the Data Summary even though it does not meet the EPA (Environmental Protection Agency) definition of a public drinking water supply.

APPENDIX C

SAMPLING DEVIATIONS

&

UNAVAILABLE ANALYSES

2023

APPENDIX C

HARRIS NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Harris REMP air samplers operated for a total of 99.98% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
91	1/3 - 1/9/2023	PI	0.21 hours of downtime due to failed GFCI outlet. Outlet was replaced, sampler returned to service.	NCR# 02455393
63	2/27 - 3/6/2023	OT	Small dead bugs found stuck in rotameter column interfering with flow of air sampler. Flowmeter ball was stuck at the time of collection possibly indicating an erroneous air flow. Air Sampler had operated for 168.82 hours (573.68 m ³ volume) at the time of discovery, no downtime was recorded for this deviation. Air sampler was removed from service and replaced.	NCR# 02463898
5	8/14 - 8/21/2023	PI	3.28 hours of downtime due to power interruption, storms in the area.	NCR# 02483772
26	8/21 - 8/28/2023	PI	0.99 hours of downtime due to unknown power interruption.	NCR# 02484822
26	9/5 - 9/11/2023	PI	1.35 hours of downtime due to power interruption, storms in the area.	NCR# 02486433
5	9/5 - 9/11/2023	PI	3.54 hours of downtime due to power interruption, storms in the area.	NCR# 02486432
26	11/27 - 12/4/2023	PI	1.35 hours of downtime due to unknown power interruption.	NCR# 02496782
91	12/27/2023-1/2/2024	PI	0.52 hours of downtime due to unknown power interruption.	NCR# 02499632

Drinking Water and Surface Water

REMP monthly drinking water samples (Drinking Water (DW)) or surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” The sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Harris REMP water samplers operated for a total of 97.84% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
26	1/23 – 2/20/2023	PI	472.25 hours of downtime for monthly composite due to GFCI outlet trip. GFCI reset, sampler returned to service.	NCR # 02461688
46	5/15 – 6/12/2023	OT	64.5 hours of downtime for monthly composite due to water plant personnel at Lillington plant moving reservoirs for emergent plant issues. Sampling restarted as soon as plant issues were resolved.	NCR # 02475967
40	5/15 – 6/12/2023	OT	64.5 hours of downtime for monthly composite due to water plant personnel at Lillington plant moving reservoirs for emergent plant issues. Sampling restarted as soon as plant issues were resolved.	NCR # 02475967
26	9/5 – 10/2/2023	PI	504.0 hours of downtime for monthly composite due to GFCI outlet trip. GFCI reset, sampler returned to service.	NCR # 02489267
26	10/30 – 11/27/2023	OT	Unknown downtime due to equipment malfunction of ISCO pump. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance, a grab sample was also obtained. ISCO changed out with a newly calibrated ISCO and returned to service.	NCR # 02495926

C.2 UNAVAILABLE ANALYSES

Milk

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
300	2/13/2023	OT	Manco Dairy ceased operation. Dairy owner informed REMP technician on 2/13/2024 of dairy closure. A replacement control dairy could not be located. Indicator dairy (goat milk) is only available seasonally. Therefore, monthly BLV sampling was implemented. DRR#02475324 was written to track the ODCM change.	NCR# 02460334

TLDs

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
33	1/10 - 4/11/2023	VN	TLDs (alpha and bravo) were unavailable at the time of collection. The 1Qtr2023 TLDs were missing due to theft/vandalism at the site.	NCR# 02468949

APPENDIX D

ANALYTICAL DEVIATIONS

2023

No Analytical deviations were incurred for the 2023 HNP Radiological
Environmental Monitoring Program.

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2023.

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	582674	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.40E-03	3.85E-03
Sample ID:	582979	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	2.57E-03	2.32E-03
Sample ID:	583161	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	3.08E-03	3.65E-03
Sample ID:	583514	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.57E-03	2.73E-03
Sample ID:	584242	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.44E-03	2.44E-03
Sample ID:	584947	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.12E-03	3.07E-03
Sample ID:	585373	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.91E-03	3.18E-03
Sample ID:	585581	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.95E-03	3.29E-03
Sample ID:	585834	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.95E-03	3.28E-03
Sample ID:	586094	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.56E-03	2.92E-03
Sample ID:	586687	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.14E-03	3.07E-03
Sample ID:	586953	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.34E-03	3.93E-03
Sample ID:	587212	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.04E-03	3.15E-03
Sample ID:	587463	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.77E-03	0.00E+00	1.77E-03
				Cs-137	<1.45E-03	0.00E+00	1.45E-03
				Be-7	1.27E-01	3.31E-02	2.95E-02
				K-40	<2.91E-02	0.00E+00	2.91E-02
Sample ID:	587456	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.94E-03	3.10E-03
Sample ID:	587789	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.95E-03	3.03E-03
Sample ID:	588324	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	2.99E-03	2.63E-03
Sample ID:	588610	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.78E-03	3.29E-03
Sample ID:	589565	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.88E-03	3.40E-03
Sample ID:	589822	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.06E-03	3.40E-03
Sample ID:	590037	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.98E-03	3.57E-03
Sample ID:	590372	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.33E-03	2.64E-03
Sample ID:	590507	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.14E-02	2.60E-03	3.37E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	590661	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.33E-03	3.34E-03
Sample ID:	591220	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.32E-03	3.39E-03
Sample ID:	591460	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.91E-03	3.33E-03
Sample ID:	591642	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.66E-03	2.80E-03
Sample ID:	591845	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.47E-03	0.00E+00	1.47E-03
				Cs-137	<1.68E-03	0.00E+00	1.68E-03
				Be-7	1.36E-01	3.63E-02	3.65E-02
				K-40	2.14E-02	1.60E-02	2.17E-02
Sample ID:	591838	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.08E-03	3.31E-03
Sample ID:	592207	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.13E-03	3.31E-03
Sample ID:	592425	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.29E-03	3.08E-03
Sample ID:	593023	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.24E-03	3.15E-03
Sample ID:	593192	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.05E-03	3.18E-03
Sample ID:	593575	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.20E-03	3.21E-03
Sample ID:	593826	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.01E-03	3.30E-03
Sample ID:	594301	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.05E-02	3.13E-03	2.65E-03
Sample ID:	594813	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	2.51E-03	2.39E-03
Sample ID:	595008	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.43E-02	3.62E-03	3.01E-03
Sample ID:	595654	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	2.91E-03	2.83E-03
Sample ID:	596412	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.01E-03	2.14E-03
Sample ID:	596802	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.46E-03	2.82E-03
Sample ID:	597303	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.64E-03	0.00E+00	1.64E-03
				Cs-137	<1.35E-03	0.00E+00	1.35E-03
				Be-7	1.18E-01	3.48E-02	3.66E-02
				K-40	<3.18E-02	0.00E+00	3.18E-02
Sample ID:	597296	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.89E-03	2.92E-03
Sample ID:	597886	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.29E-02	3.73E-03	3.62E-03
Sample ID:	598230	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.61E-03	3.06E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	598883	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	3.23E-03	3.08E-03
Sample ID:	599082	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.22E-03	2.80E-03
Sample ID:	599477	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.09E-02	3.99E-03	3.41E-03
Sample ID:	600325	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.39E-03	3.33E-03
Sample ID:	601140	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.95E-03	3.20E-03
Sample ID:	601302	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.56E-03	3.48E-03
Sample ID:	601796	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.11E-02	3.52E-03	3.16E-03
Sample ID:	602279	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	2.88E-03	2.86E-03
Sample ID:	602524	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.40E-03	2.45E-03
Sample ID:	602731	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.13E-03	3.24E-03
Sample ID:	602955	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.93E-03	0.00E+00	1.93E-03
				Cs-137	<1.47E-03	0.00E+00	1.47E-03
				Be-7	1.10E-01	3.20E-02	3.03E-02
				K-40	3.57E-02	2.12E-02	2.78E-02

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	582676	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	3.32E-03	3.85E-03
Sample ID:	582981	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.52E-03	2.32E-03
Sample ID:	583163	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.98E-03	3.65E-03
Sample ID:	583516	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.66E-03	2.73E-03
Sample ID:	584244	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.46E-03	2.44E-03
Sample ID:	584949	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.05E-03	3.07E-03
Sample ID:	585375	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.92E-03	3.18E-03
Sample ID:	585583	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.06E-03	3.29E-03
Sample ID:	585836	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.78E-03	3.28E-03
Sample ID:	586096	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.60E-03	2.92E-03
Sample ID:	586689	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.04E-03	3.07E-03
Sample ID:	586955	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	3.29E-03	3.93E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	587214	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.05E-03	3.15E-03
Sample ID:	587465	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.50E-03	0.00E+00	1.50E-03
				Cs-137	<1.06E-03	0.00E+00	1.06E-03
				Be-7	1.26E-01	3.53E-02	3.64E-02
				K-40	2.76E-02	1.40E-02	4.67E-03
Sample ID:	587458	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.08E-03	3.10E-03
Sample ID:	587791	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.03E-03	3.03E-03
Sample ID:	588326	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.09E-03	2.63E-03
Sample ID:	588612	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.88E-03	3.29E-03
Sample ID:	589567	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.26E-02	2.71E-03	3.40E-03
Sample ID:	589824	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.15E-03	3.40E-03
Sample ID:	590039	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.96E-03	3.57E-03
Sample ID:	590374	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.30E-03	2.64E-03
Sample ID:	590509	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.10E-02	2.58E-03	3.38E-03
Sample ID:	590663	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.38E-03	3.34E-03
Sample ID:	591222	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.45E-03	3.39E-03
Sample ID:	591462	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.78E-03	3.33E-03
Sample ID:	591644	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	2.94E-03	2.80E-03
Sample ID:	591847	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.28E-03	0.00E+00	1.28E-03
				Cs-137	<1.37E-03	0.00E+00	1.37E-03
				Be-7	1.48E-01	3.50E-02	2.74E-02
				K-40	1.90E-02	1.49E-02	2.03E-02
Sample ID:	591840	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.09E-03	3.31E-03
Sample ID:	592209	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	3.27E-03	3.31E-03
Sample ID:	592427	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.26E-03	3.08E-03
Sample ID:	593025	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.07E-03	3.15E-03
Sample ID:	593194	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.07E-03	3.18E-03
Sample ID:	593577	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.14E-03	3.21E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	593828	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.14E-03	3.30E-03
Sample ID:	594303	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.20E-02	3.18E-03	2.65E-03
Sample ID:	594815	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.45E-03	2.39E-03
Sample ID:	595010	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.49E-03	3.01E-03
Sample ID:	595656	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.89E-03	2.83E-03
Sample ID:	596414	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.00E-03	2.14E-03
Sample ID:	596804	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.31E-03	2.82E-03
Sample ID:	597305	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.82E-03	0.00E+00	1.82E-03
				Cs-137	<1.36E-03	0.00E+00	1.36E-03
				Be-7	1.01E-01	3.74E-02	4.70E-02
				K-40	4.71E-02	2.09E-02	2.14E-02
Sample ID:	597298	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.92E-03	2.92E-03
Sample ID:	597888	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.84E-02	3.56E-03	3.62E-03
Sample ID:	598232	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.67E-03	3.06E-03
Sample ID:	598885	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.22E-03	3.08E-03
Sample ID:	599084	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.03E-03	2.80E-03
Sample ID:	599479	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.99E-02	3.96E-03	3.41E-03
Sample ID:	600327	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.36E-03	3.33E-03
Sample ID:	601142	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.92E-03	3.20E-03
Sample ID:	601304	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.49E-03	3.48E-03
Sample ID:	601798	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.91E-02	3.43E-03	3.16E-03
Sample ID:	602281	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.65E-03	2.86E-03
Sample ID:	602526	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	2.55E-03	2.44E-03
Sample ID:	602733	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.97E-03	3.24E-03
Sample ID:	602957	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.26E-03	0.00E+00	1.26E-03
				Cs-137	<1.56E-03	0.00E+00	1.56E-03
				Be-7	1.22E-01	3.46E-02	3.39E-02
				K-40	2.16E-02	1.56E-02	2.06E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID:	582677	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	3.15E-03	3.83E-03
Sample ID:	582982	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.49E-03	2.33E-03
Sample ID:	583164	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	3.09E-03	3.72E-03
Sample ID:	583517	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.53E-03	2.69E-03
Sample ID:	584245	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.56E-03	2.44E-03
Sample ID:	584950	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.98E-03	3.07E-03
Sample ID:	585376	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.96E-03	3.23E-03
Sample ID:	585584	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.04E-03	3.23E-03
Sample ID:	585837	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.80E-03	3.27E-03
Sample ID:	586097	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.06E-02	2.41E-03	2.94E-03
Sample ID:	586690	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.07E-03	3.12E-03
Sample ID:	586956	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.17E-03	3.87E-03
Sample ID:	587215	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.98E-03	3.13E-03
Sample ID:	587466	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.83E-03	0.00E+00	1.83E-03
				Cs-137	<1.51E-03	0.00E+00	1.51E-03
				Be-7	1.19E-01	3.33E-02	3.27E-02
				K-40	<2.46E-02	0.00E+00	2.46E-02
Sample ID:	587459	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.08E-03	3.12E-03
Sample ID:	587792	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.97E-03	3.08E-03
Sample ID:	588327	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.00E-03	2.59E-03
Sample ID:	588613	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.90E-03	3.26E-03
Sample ID:	589568	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.76E-03	3.44E-03
Sample ID:	589825	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.21E-03	3.46E-03
Sample ID:	590040	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.00E-03	3.51E-03
Sample ID:	590375	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.35E-03	2.65E-03
Sample ID:	590510	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.11E-02	2.63E-03	3.45E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID:	590664	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.33E-03	3.33E-03
Sample ID:	591223	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.26E-03	3.33E-03
Sample ID:	591463	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.77E-03	3.33E-03
Sample ID:	591645	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.84E-03	2.80E-03
Sample ID:	591848	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.69E-03	0.00E+00	1.69E-03
				Be-7	1.47E-01	3.41E-02	2.54E-02
				K-40	<3.51E-02	0.00E+00	3.51E-02
Sample ID:	591841	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.22E-03	3.37E-03
Sample ID:	592210	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.16E-03	3.27E-03
Sample ID:	592428	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.38E-03	3.07E-03
Sample ID:	593026	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.21E-03	3.15E-03
Sample ID:	593195	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.11E-03	3.23E-03
Sample ID:	593578	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.00E-03	3.15E-03
Sample ID:	593829	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.27E-03	3.36E-03
Sample ID:	594304	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.48E-02	3.29E-03	2.65E-03
Sample ID:	594816	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.47E-03	2.43E-03
Sample ID:	595011	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.16E-02	3.52E-03	3.02E-03
Sample ID:	595657	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.87E-03	2.83E-03
Sample ID:	596415	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.84E-02	2.91E-03	2.15E-03
Sample ID:	596805	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.44E-03	2.86E-03
Sample ID:	597306	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.89E-03	0.00E+00	1.89E-03
				Cs-137	<1.18E-03	0.00E+00	1.18E-03
				Be-7	1.15E-01	3.15E-02	2.71E-02
				K-40	3.14E-02	1.88E-02	2.38E-02
Sample ID:	597299	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.02E-03	2.87E-03
Sample ID:	597889	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.24E-02	3.72E-03	3.63E-03
Sample ID:	598233	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.81E-03	3.06E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID:	598886	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.30E-03	3.12E-03
Sample ID:	599085	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.41E-02	3.31E-03	2.76E-03
Sample ID:	599480	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.18E-02	4.03E-03	3.41E-03
Sample ID:	600328	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.87E-02	3.46E-03	3.33E-03
Sample ID:	601143	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.08E-03	3.26E-03
Sample ID:	601305	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.45E-03	3.43E-03
Sample ID:	601799	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.38E-03	3.15E-03
Sample ID:	602282	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.03E-03	2.86E-03
Sample ID:	602527	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	2.67E-03	2.47E-03
Sample ID:	602734	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.21E-03	3.19E-03
Sample ID:	602958	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.10E-03	0.00E+00	2.10E-03
				Cs-137	<1.17E-03	0.00E+00	1.17E-03
				Be-7	1.24E-01	3.37E-02	3.12E-02
				K-40	<3.10E-02	0.00E+00	3.10E-02

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	582675	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	3.15E-03	3.85E-03
Sample ID:	582980	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	2.49E-03	2.32E-03
Sample ID:	583162	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	3.05E-03	3.72E-03
Sample ID:	583515	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.51E-03	2.68E-03
Sample ID:	584243	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.50E-03	2.44E-03
Sample ID:	584948	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.94E-03	3.07E-03
Sample ID:	585374	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.75E-03	3.23E-03
Sample ID:	585582	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.92E-03	3.23E-03
Sample ID:	585835	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.78E-03	3.28E-03
Sample ID:	586095	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.17E-02	2.47E-03	2.92E-03
Sample ID:	586688	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	3.00E-03	3.11E-03
Sample ID:	586954	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.15E-03	3.87E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	587213	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.21E-02	2.59E-03	3.15E-03
Sample ID:	587464	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<2.13E-03	0.00E+00	2.13E-03
				Be-7	1.44E-01	3.42E-02	2.53E-02
				K-40	4.26E-02	1.74E-02	4.62E-03
Sample ID:	587457	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.84E-03	3.10E-03
Sample ID:	587790	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.97E-03	3.06E-03
Sample ID:	588325	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	2.95E-03	2.60E-03
Sample ID:	588611	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.76E-03	3.30E-03
Sample ID:	589566	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.70E-03	3.40E-03
Sample ID:	589823	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.11E-03	3.45E-03
Sample ID:	590038	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.96E-03	3.53E-03
Sample ID:	590373	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.29E-03	2.65E-03
Sample ID:	590508	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.53E-03	2.53E-03	3.43E-03
Sample ID:	590662	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	3.10E-03	3.33E-03
Sample ID:	591221	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.17E-03	3.35E-03
Sample ID:	591461	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.69E-03	3.33E-03
Sample ID:	591643	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.82E-03	2.80E-03
Sample ID:	591846	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.65E-03	0.00E+00	1.65E-03
				Cs-137	<1.80E-03	0.00E+00	1.80E-03
				Be-7	1.55E-01	3.65E-02	3.03E-02
				K-40	<3.43E-02	0.00E+00	3.43E-02
Sample ID:	591839	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.14E-03	3.35E-03
Sample ID:	592208	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.13E-03	3.27E-03
Sample ID:	592426	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.29E-03	3.08E-03
Sample ID:	593024	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.27E-03	3.15E-03
Sample ID:	593193	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.02E-03	3.23E-03
Sample ID:	593576	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.00E-03	3.16E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	593827	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.16E-03	3.30E-03
Sample ID:	594302	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.29E-03	2.66E-03
Sample ID:	594814	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	2.52E-03	2.42E-03
Sample ID:	595009	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.14E-02	3.49E-03	2.99E-03
Sample ID:	595655	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.02E-03	2.83E-03
Sample ID:	596413	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.01E-03	2.14E-03
Sample ID:	596803	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.55E-03	2.31E-03	2.88E-03
Sample ID:	597304	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.75E-03	0.00E+00	1.75E-03
				Cs-137	<1.28E-03	0.00E+00	1.28E-03
				Be-7	1.17E-01	3.59E-02	3.82E-02
				K-40	<3.55E-02	0.00E+00	3.55E-02
Sample ID:	597297	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.70E-03	2.86E-03
Sample ID:	597887	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.99E-02	3.61E-03	3.62E-03
Sample ID:	598231	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.69E-03	3.06E-03
Sample ID:	598884	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.23E-03	3.12E-03
Sample ID:	599083	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.13E-03	2.78E-03
Sample ID:	599478	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.32E-02	4.07E-03	3.40E-03
Sample ID:	600326	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.07E-02	3.56E-03	3.36E-03
Sample ID:	601141	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.03E-03	3.24E-03
Sample ID:	601303	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	3.40E-03	3.44E-03
Sample ID:	601797	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.87E-02	3.42E-03	3.16E-03
Sample ID:	602280	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.83E-03	2.86E-03
Sample ID:	602525	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.51E-03	2.48E-03
Sample ID:	602732	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.07E-03	3.17E-03
Sample ID:	602956	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.74E-03	0.00E+00	1.74E-03
				Cs-137	<1.30E-03	0.00E+00	1.30E-03
				Be-7	1.06E-01	3.40E-02	3.81E-02
				K-40	<3.49E-02	0.00E+00	3.49E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	582678	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	3.20E-03	3.85E-03
Sample ID:	582983	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.47E-03	2.32E-03
Sample ID:	583165	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.22E-02	2.87E-03	3.63E-03
Sample ID:	583518	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.38E-03	2.75E-03
Sample ID:	584246	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.40E-03	2.44E-03
Sample ID:	584951	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.95E-03	3.23E-03
Sample ID:	585377	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	3.04E-03	3.52E-03
Sample ID:	585585	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.90E-03	3.30E-03
Sample ID:	585838	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.72E-03	3.26E-03
Sample ID:	586098	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.61E-03	2.94E-03
Sample ID:	586691	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.05E-03	3.06E-03
Sample ID:	586957	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	3.16E-03	3.95E-03
Sample ID:	587216	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.80E-03	3.13E-03
Sample ID:	587467	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.03E-03	0.00E+00	1.03E-03
				Cs-137	<1.38E-03	0.00E+00	1.38E-03
				Be-7	1.29E-01	3.49E-02	3.43E-02
				K-40	<3.98E-02	0.00E+00	3.98E-02
Sample ID:	587460	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.17E-03	3.12E-03
Sample ID:	587793	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.91E-03	3.01E-03
Sample ID:	588328	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.08E-03	2.64E-03
Sample ID:	588614	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.76E-03	3.27E-03
Sample ID:	589569	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.90E-03	3.42E-03
Sample ID:	589826	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.04E-03	3.39E-03
Sample ID:	590041	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	3.10E-03	3.59E-03
Sample ID:	590376	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.29E-03	2.64E-03
Sample ID:	590511	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.10E-02	2.68E-03	3.53E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	590665	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.21E-03	3.20E-03
Sample ID:	591224	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.36E-03	3.41E-03
Sample ID:	591464	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.71E-03	3.33E-03
Sample ID:	591646	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	2.80E-03	2.79E-03
Sample ID:	591849	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.94E-03	0.00E+00	1.94E-03
				Cs-137	<1.23E-03	0.00E+00	1.23E-03
				Be-7	1.61E-01	3.77E-02	3.24E-02
				K-40	<2.41E-02	0.00E+00	2.41E-02
Sample ID:	591842	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.14E-03	3.31E-03
Sample ID:	592211	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.16E-03	3.33E-03
Sample ID:	592429	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.27E-03	3.07E-03
Sample ID:	593027	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.08E-03	3.15E-03
Sample ID:	593196	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.92E-03	3.17E-03
Sample ID:	593579	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	3.02E-03	3.22E-03
Sample ID:	593830	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.08E-03	3.30E-03
Sample ID:	594305	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.26E-02	3.21E-03	2.65E-03
Sample ID:	594817	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	2.52E-03	2.37E-03
Sample ID:	595012	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.25E-02	3.58E-03	3.04E-03
Sample ID:	595658	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.85E-03	2.82E-03
Sample ID:	596416	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.28E-02	3.11E-03	2.17E-03
Sample ID:	596806	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	2.29E-03	2.77E-03
Sample ID:	597307	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.92E-03	0.00E+00	1.92E-03
				Cs-137	<1.68E-03	0.00E+00	1.68E-03
				Be-7	1.44E-01	3.37E-02	1.97E-02
				K-40	4.22E-02	1.89E-02	1.76E-02
Sample ID:	597300	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.09E-03	2.99E-03
Sample ID:	597890	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	3.55E-03	3.62E-03
Sample ID:	598234	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.76E-03	3.06E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	598887	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.03E-03	3.01E-03
Sample ID:	599086	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.18E-02	3.30E-03	2.88E-03
Sample ID:	599481	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.83E-02	3.88E-03	3.39E-03
Sample ID:	600329	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.89E-02	3.49E-03	3.36E-03
Sample ID:	601144	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.03E-03	3.12E-03
Sample ID:	601306	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.80E-02	3.57E-03	3.56E-03
Sample ID:	601800	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.89E-02	3.42E-03	3.15E-03
Sample ID:	602283	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.92E-03	2.85E-03
Sample ID:	602528	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.44E-03	2.41E-03
Sample ID:	602735	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.23E-03	3.33E-03
Sample ID:	602959	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.49E-03	0.00E+00	1.49E-03
				Cs-137	<1.48E-03	0.00E+00	1.48E-03
				Be-7	1.15E-01	3.75E-02	4.43E-02
				K-40	3.19E-02	1.63E-02	1.50E-02

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	582679	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.24E-03	3.85E-03
Sample ID:	582984	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.57E-03	2.32E-03
Sample ID:	583166	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.96E-03	3.63E-03
Sample ID:	583519	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.69E-03	2.75E-03
Sample ID:	584247	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.46E-03	2.44E-03
Sample ID:	584952	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.04E-03	3.06E-03
Sample ID:	585378	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.86E-03	3.17E-03
Sample ID:	585586	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.04E-03	3.30E-03
Sample ID:	585839	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.87E-03	3.26E-03
Sample ID:	586099	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.55E-03	2.94E-03
Sample ID:	586692	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	3.08E-03	3.06E-03
Sample ID:	586958	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	3.24E-03	3.95E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	587217	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	2.89E-03	3.13E-03
Sample ID:	587468	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.03E-03	0.00E+00	1.03E-03
				Cs-137	<3.11E-04	0.00E+00	3.11E-04
				Be-7	1.60E-01	3.44E-02	1.66E-02
				K-40	<2.74E-02	0.00E+00	2.74E-02
Sample ID:	587461	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.93E-03	3.12E-03
Sample ID:	587794	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.94E-03	3.01E-03
Sample ID:	588329	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.11E-03	2.64E-03
Sample ID:	588615	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.90E-03	3.27E-03
Sample ID:	589570	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.80E-03	3.42E-03
Sample ID:	589827	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.13E-03	3.39E-03
Sample ID:	590042	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.93E-03	3.59E-03
Sample ID:	590377	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.44E-03	2.64E-03
Sample ID:	590512	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.21E-02	2.73E-03	3.53E-03
Sample ID:	590666	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.08E-03	3.20E-03
Sample ID:	591225	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	3.40E-03	3.41E-03
Sample ID:	591465	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.36E-02	2.76E-03	3.33E-03
Sample ID:	591647	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.73E-03	2.79E-03
Sample ID:	591850	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.06E-03	0.00E+00	1.06E-03
				Cs-137	<1.68E-03	0.00E+00	1.68E-03
				Be-7	1.55E-01	3.68E-02	2.92E-02
				K-40	<2.74E-02	0.00E+00	2.74E-02
Sample ID:	591843	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.22E-03	3.31E-03
Sample ID:	592212	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.26E-03	3.33E-03
Sample ID:	592430	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.46E-03	3.07E-03
Sample ID:	593028	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.87E-02	3.41E-03	3.15E-03
Sample ID:	593197	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.01E-03	3.17E-03
Sample ID:	593580	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.15E-03	3.22E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	593831	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	3.17E-03	3.30E-03
Sample ID:	594306	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.15E-02	3.17E-03	2.65E-03
Sample ID:	594818	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	2.54E-03	2.37E-03
Sample ID:	595013	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.69E-02	3.76E-03	3.04E-03
Sample ID:	595659	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	2.94E-03	2.82E-03
Sample ID:	596417	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.96E-02	2.98E-03	2.17E-03
Sample ID:	596807	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.29E-03	2.77E-03
Sample ID:	597308	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.01E-03	0.00E+00	1.01E-03
				Cs-137	<1.36E-03	0.00E+00	1.36E-03
				Be-7	1.34E-01	3.39E-02	2.62E-02
				K-40	<3.72E-02	0.00E+00	3.72E-02
Sample ID:	597301	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.05E-03	2.98E-03
Sample ID:	597891	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.59E-03	3.62E-03
Sample ID:	598235	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.77E-03	3.06E-03
Sample ID:	598888	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.12E-03	3.01E-03
Sample ID:	599087	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.36E-02	3.38E-03	2.88E-03
Sample ID:	599482	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.20E-02	4.02E-03	3.39E-03
Sample ID:	600330	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.00E-02	3.53E-03	3.36E-03
Sample ID:	601145	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.02E-03	3.12E-03
Sample ID:	601307	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.86E-02	3.60E-03	3.56E-03
Sample ID:	601801	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.91E-02	3.43E-03	3.15E-03
Sample ID:	602284	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.62E-03	2.85E-03
Sample ID:	602529	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.45E-03	2.41E-03
Sample ID:	602736	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.33E-03	3.33E-03
Sample ID:	602960	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.58E-03	0.00E+00	1.58E-03
				Be-7	1.17E-01	3.30E-02	3.12E-02
				K-40	<3.58E-02	0.00E+00	3.58E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	582680	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	3.27E-03	3.86E-03
Sample ID:	582985	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	2.59E-03	2.33E-03
Sample ID:	583167	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.90E-03	3.64E-03
Sample ID:	583520	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.52E-03	2.74E-03
Sample ID:	584248	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.41E-03	2.44E-03
Sample ID:	584953	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.92E-03	3.06E-03
Sample ID:	585379	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.83E-03	3.17E-03
Sample ID:	585587	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.80E-03	3.30E-03
Sample ID:	585840	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.80E-03	3.26E-03
Sample ID:	586100	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.64E-03	2.94E-03
Sample ID:	586693	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.95E-03	3.06E-03
Sample ID:	586959	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.22E-03	3.95E-03
Sample ID:	587218	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.85E-03	3.13E-03
Sample ID:	587469	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.58E-03	0.00E+00	1.58E-03
				Cs-137	<1.70E-03	0.00E+00	1.70E-03
				Be-7	1.38E-01	3.14E-02	2.87E-02
				K-40	<3.21E-02	0.00E+00	3.21E-02
Sample ID:	587462	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.09E-03	3.12E-03
Sample ID:	587795	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.78E-03	3.02E-03
Sample ID:	588330	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.08E-03	2.64E-03
Sample ID:	588616	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.79E-03	3.27E-03
Sample ID:	589571	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.90E-03	3.43E-03
Sample ID:	589828	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.15E-03	3.39E-03
Sample ID:	590043	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.86E-03	3.59E-03
Sample ID:	590378	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.83E-03	2.19E-03	2.64E-03
Sample ID:	590513	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	2.54E-03	3.39E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	590667	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	3.35E-03	3.31E-03
Sample ID:	591226	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.40E-03	3.41E-03
Sample ID:	591466	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.81E-03	3.32E-03
Sample ID:	591648	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	2.83E-03	2.79E-03
Sample ID:	591851	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.41E-03	0.00E+00	2.41E-03
				Cs-137	<1.71E-03	0.00E+00	1.71E-03
				Be-7	1.26E-01	3.47E-02	3.33E-02
				K-40	1.44E-02	1.75E-02	2.83E-02
Sample ID:	591844	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.26E-03	3.31E-03
Sample ID:	592213	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.31E-03	3.33E-03
Sample ID:	592431	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.00E-02	3.44E-03	3.07E-03
Sample ID:	593029	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.31E-03	3.15E-03
Sample ID:	593198	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.05E-03	3.15E-03
Sample ID:	593581	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.09E-03	3.24E-03
Sample ID:	593832	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.24E-03	3.30E-03
Sample ID:	594307	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.35E-02	3.25E-03	2.65E-03
Sample ID:	594819	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.46E-03	2.37E-03
Sample ID:	595014	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.36E-02	3.62E-03	3.04E-03
Sample ID:	595660	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.01E-03	2.83E-03
Sample ID:	596418	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.31E-02	3.11E-03	2.15E-03
Sample ID:	596808	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.44E-03	2.80E-03
Sample ID:	597309	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.49E-03	0.00E+00	1.49E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.37E-01	6.94E-02	2.44E-02
				K-40	<3.35E-02	0.00E+00	3.35E-02
Sample ID:	597302	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.01E-03	2.94E-03
Sample ID:	597892	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.52E-02	3.82E-03	3.62E-03
Sample ID:	598236	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.65E-03	3.06E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	598889	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.30E-03	3.05E-03
Sample ID:	599088	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.15E-02	3.26E-03	2.83E-03
Sample ID:	599483	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.88E-02	3.92E-03	3.41E-03
Sample ID:	600331	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.41E-03	3.35E-03
Sample ID:	601146	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.94E-03	3.17E-03
Sample ID:	601308	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.46E-03	3.50E-03
Sample ID:	601802	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.09E-02	3.51E-03	3.15E-03
Sample ID:	602285	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.83E-03	2.86E-03
Sample ID:	602530	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.41E-03	2.43E-03
Sample ID:	602737	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.95E-03	3.28E-03
Sample ID:	602961	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.55E-03	0.00E+00	1.55E-03
				Cs-137	<1.27E-03	0.00E+00	1.27E-03
				Be-7	1.04E-01	3.09E-02	2.71E-02
				K-40	<3.01E-02	0.00E+00	3.01E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	582688	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.10E-02	0.00E+00	4.10E-02
				Cs-134	<3.31E-02	0.00E+00	3.31E-02
				Cs-137	<3.50E-02	0.00E+00	3.50E-02
				Be-7	<2.65E-01	0.00E+00	2.65E-01
				K-40	7.40E-01	3.26E-01	2.54E-01
Sample ID:	582986	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.99E-02	0.00E+00	2.99E-02
				Cs-134	<2.92E-02	0.00E+00	2.92E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.76E-01	0.00E+00	1.76E-01
				K-40	5.39E-01	2.48E-01	2.47E-01
Sample ID:	583168	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.91E-02	0.00E+00	2.91E-02
				Cs-134	<2.97E-02	0.00E+00	2.97E-02
				Cs-137	<3.09E-02	0.00E+00	3.09E-02
				Be-7	<1.91E-01	0.00E+00	1.91E-01
				K-40	<3.80E-01	0.00E+00	3.80E-01
Sample ID:	583521	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.11E-02	0.00E+00	3.11E-02
				Cs-134	<2.23E-02	0.00E+00	2.23E-02
				Cs-137	<1.92E-02	0.00E+00	1.92E-02
				Be-7	<1.09E-01	0.00E+00	1.09E-01
				K-40	<4.41E-01	0.00E+00	4.41E-01
Sample ID:	584249	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.46E-02	0.00E+00	2.46E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 584249	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<5.78E-01	0.00E+00	5.78E-01
Sample ID: 584954	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	<6.51E-01	0.00E+00	6.51E-01
Sample ID: 585380	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<3.40E-02	0.00E+00	3.40E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	7.10E-01	3.07E-01	3.12E-01
Sample ID: 585588	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	5.55E-01	2.59E-01	2.18E-01
Sample ID: 585841	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	<6.13E-01	0.00E+00	6.13E-01
Sample ID: 586101	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	4.84E-01	2.46E-01	2.50E-01
Sample ID: 586694	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<9.43E-02	0.00E+00	9.43E-02
		K-40	3.66E-01	2.40E-01	3.14E-01
Sample ID: 586960	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	<5.62E-01	0.00E+00	5.62E-01
Sample ID: 587219	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	2.73E-01	2.03E-01	2.64E-01
Sample ID: 587470	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.80E-02	0.00E+00	3.80E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.48E-01	0.00E+00	2.48E-01
		K-40	7.19E-01	2.82E-01	7.21E-02
Sample ID: 587796	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.78E-02	0.00E+00	3.78E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 587796	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	4.99E-01	2.84E-01	3.45E-01
Sample ID: 588331	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<2.02E-01	0.00E+00	2.02E-01
Sample ID: 588617	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
Sample ID: 589572	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
Sample ID: 589829	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 590044	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.96E-02	0.00E+00	3.96E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
Sample ID: 590379	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
Sample ID: 590514	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 590668	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 591227	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	6.13E-01	3.65E-01	4.89E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 591467	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	8.01E-01	3.27E-01	2.88E-01
Sample ID: 591649	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.23E-01	0.00E+00	5.23E-01
Sample ID: 591852	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.91E-02	0.00E+00	3.91E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	5.62E-01	2.86E-01	3.14E-01
Sample ID: 592217	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	<5.88E-01	0.00E+00	5.88E-01
Sample ID: 592432	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<5.06E-01	0.00E+00	5.06E-01
Sample ID: 593030	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	7.77E-01	2.82E-01	6.58E-02
Sample ID: 593199	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	3.63E-01	2.81E-01	4.12E-01
Sample ID: 593582	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	6.94E-01	3.78E-01	5.04E-01
Sample ID: 593833	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	4.40E-01	3.00E-01	4.22E-01
Sample ID: 594308	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	6.89E-01	3.00E-01	3.05E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 594820	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	3.49E-01	2.23E-01	2.92E-01
Sample ID: 595015	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<5.14E-03	0.00E+00	5.14E-03
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	<6.57E-01	0.00E+00	6.57E-01
Sample ID: 595661	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.65E-02	0.00E+00	3.65E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<2.70E-01	0.00E+00	2.70E-01
		K-40	8.81E-01	3.66E-01	3.49E-01
Sample ID: 596419	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	6.25E-01	3.50E-01	4.40E-01
Sample ID: 596809	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.06E-02	0.00E+00	4.06E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<2.50E-01	0.00E+00	2.50E-01
		K-40	<8.30E-01	0.00E+00	8.30E-01
Sample ID: 597310	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	<5.85E-01	0.00E+00	5.85E-01
Sample ID: 597893	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	6.85E-01	2.91E-01	2.65E-01
Sample ID: 598237	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.65E-02	0.00E+00	2.65E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	<6.30E-01	0.00E+00	6.30E-01
Sample ID: 598890	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<2.36E-01	0.00E+00	2.36E-01
		K-40	4.28E-01	2.51E-01	2.72E-01
Sample ID: 599089	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.06E-02	0.00E+00	3.06E-02
		Cs-134	<3.33E-02	0.00E+00	3.33E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	<6.69E-01	0.00E+00	6.69E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 599484	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<2.73E-01	0.00E+00	2.73E-01
		K-40	<6.60E-01	0.00E+00	6.60E-01
Sample ID: 600332	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	4.20E-01	2.58E-01	3.26E-01
Sample ID: 601147	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.23E-02	0.00E+00	4.23E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<5.93E-01	0.00E+00	5.93E-01
Sample ID: 601309	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	5.81E-01	2.65E-01	2.35E-01
Sample ID: 601803	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<6.40E-01	0.00E+00	6.40E-01
Sample ID: 602286	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<4.39E-03	0.00E+00	4.39E-03
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	2.65E-01	3.16E-01	5.13E-01
Sample ID: 602531	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.39E-02	0.00E+00	5.39E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
		K-40	6.95E-01	2.98E-01	2.88E-01
Sample ID: 602738	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.55E-02	0.00E+00	4.55E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<3.35E-02	0.00E+00	3.35E-02
		Be-7	<2.83E-01	0.00E+00	2.83E-01
		K-40	9.18E-01	4.31E-01	4.77E-01
Sample Point 4 [INDICATOR - NNE @ 3.1 miles]					
Sample ID: 582690	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<4.08E-02	0.00E+00	4.08E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID: 582988	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 582988	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	5.47E-01	2.19E-01	5.70E-02
Sample ID: 583170	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<3.24E-02	0.00E+00	3.24E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	<5.81E-01	0.00E+00	5.81E-01
Sample ID: 583523	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	3.33E-01	1.86E-01	6.93E-02
Sample ID: 584251	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	<5.15E-01	0.00E+00	5.15E-01
Sample ID: 584956	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	<5.64E-01	0.00E+00	5.64E-01
Sample ID: 585382	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<7.83E-02	0.00E+00	7.83E-02
		K-40	2.86E-01	1.67E-01	6.46E-02
Sample ID: 585590	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.00E-02	0.00E+00	3.00E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	6.70E-01	3.04E-01	3.15E-01
Sample ID: 585843	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<5.54E-01	0.00E+00	5.54E-01
Sample ID: 586103	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	5.09E-01	2.48E-01	2.25E-01
Sample ID: 586696	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	2.50E-01	1.52E-01	6.17E-02
Sample ID: 586962	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 586962	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	2.34E-01	2.42E-01	3.76E-01
Sample ID: 587221	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
Sample ID: 587472	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
Sample ID: 587798	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 588333	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 588619	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
Sample ID: 589574	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 589831	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<8.09E-02	0.00E+00	8.09E-02
Sample ID: 590046	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 590381	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
Sample ID: 590381	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.99E-01	2.45E-01	2.08E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 590516	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.20E-02	0.00E+00	4.20E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<3.23E-02	0.00E+00	3.23E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	4.79E-01	2.42E-01	8.11E-02
Sample ID: 590670	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<5.31E-01	0.00E+00	5.31E-01
Sample ID: 591229	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.26E-01	2.56E-01	6.79E-02
Sample ID: 591469	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	6.19E-01	3.12E-01	3.79E-01
Sample ID: 591651	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	<5.78E-01	0.00E+00	5.78E-01
Sample ID: 591854	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	<4.97E-01	0.00E+00	4.97E-01
Sample ID: 592219	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	4.40E-01	2.75E-01	3.58E-01
Sample ID: 592434	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	8.95E-01	3.27E-01	2.69E-01
Sample ID: 593032	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.30E-01	2.55E-01	3.07E-01
Sample ID: 593201	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	3.83E-01	2.92E-01	4.28E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 593584	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	<5.00E-01	0.00E+00	5.00E-01
Sample ID: 593835	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<5.29E-01	0.00E+00	5.29E-01
Sample ID: 594310	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<5.78E-01	0.00E+00	5.78E-01
Sample ID: 594822	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<8.86E-02	0.00E+00	8.86E-02
		K-40	8.00E-01	2.88E-01	2.31E-01
Sample ID: 595017	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	<7.28E-01	0.00E+00	7.28E-01
Sample ID: 595663	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	4.46E-01	2.90E-01	3.93E-01
Sample ID: 596421	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	4.60E-01	2.14E-01	6.56E-02
Sample ID: 596811	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<2.50E-02	0.00E+00	2.50E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	5.10E-01	2.66E-01	3.04E-01
Sample ID: 597312	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	9.49E-01	3.21E-01	6.95E-02
Sample ID: 597895	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<3.23E-02	0.00E+00	3.23E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	7.33E-01	2.96E-01	2.54E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 598239	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.82E-02	0.00E+00	2.82E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	7.02E-01	3.13E-01	2.71E-01
Sample ID: 598892	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	<4.46E-01	0.00E+00	4.46E-01
Sample ID: 599091	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	4.66E-01	2.48E-01	2.68E-01
Sample ID: 599486	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	3.97E-01	2.44E-01	3.02E-01
Sample ID: 600334	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	3.11E-01	1.99E-01	2.19E-01
Sample ID: 601149	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<3.54E-02	0.00E+00	3.54E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<2.83E-01	0.00E+00	2.83E-01
		K-40	<6.68E-01	0.00E+00	6.68E-01
Sample ID: 601311	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	7.08E-01	3.17E-01	3.35E-01
Sample ID: 601805	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<5.06E-01	0.00E+00	5.06E-01
Sample ID: 602288	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.37E-02	0.00E+00	4.37E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	<6.83E-01	0.00E+00	6.83E-01
Sample ID: 602533	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.54E-02	0.00E+00	5.54E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	6.30E-01	3.13E-01	3.71E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	602740	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.46E-02	0.00E+00	4.46E-02
				Cs-134	<3.14E-02	0.00E+00	3.14E-02
				Cs-137	<3.73E-02	0.00E+00	3.73E-02
				Be-7	<3.26E-01	0.00E+00	3.26E-01
				K-40	9.84E-01	3.96E-01	2.99E-01

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID:	582691	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	<5.49E-01	0.00E+00	5.49E-01

Sample ID:	582989	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.02E-02	0.00E+00	2.02E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-02
				Cs-137	<2.52E-02	0.00E+00	2.52E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	<4.66E-01	0.00E+00	4.66E-01

Sample ID:	583171	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.89E-02	0.00E+00	2.89E-02
				Cs-134	<2.93E-02	0.00E+00	2.93E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<2.23E-01	0.00E+00	2.23E-01
				K-40	3.98E-01	3.26E-01	4.84E-01

Sample ID:	583524	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.64E-02	0.00E+00	2.64E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	4.53E-01	2.11E-01	6.46E-02

Sample ID:	584252	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<2.62E-02	0.00E+00	2.62E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.79E-01	0.00E+00	1.79E-01
				K-40	2.56E-01	1.86E-01	2.26E-01

Sample ID:	584957	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<2.22E-02	0.00E+00	2.22E-02
				Cs-137	<2.66E-02	0.00E+00	2.66E-02
				Be-7	<1.61E-01	0.00E+00	1.61E-01
				K-40	3.81E-01	2.11E-01	2.01E-01

Sample ID:	585383	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.14E-02	0.00E+00	2.14E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	4.49E-01	2.33E-01	2.39E-01

Sample ID:	585591	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.98E-02	0.00E+00	1.98E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	<5.35E-01	0.00E+00	5.35E-01

Sample ID:	585844	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.90E-02	0.00E+00	2.90E-02
				Cs-134	<3.01E-02	0.00E+00	3.01E-02
				Cs-137	<2.86E-02	0.00E+00	2.86E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 585844	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	6.95E-01	3.31E-01	3.70E-01
Sample ID: 586104	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	4.84E-01	2.65E-01	2.87E-01
Sample ID: 586697	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<5.49E-01	0.00E+00	5.49E-01
Sample ID: 586963	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<3.30E-02	0.00E+00	3.30E-02
		Cs-137	<4.62E-03	0.00E+00	4.62E-03
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	<3.35E-01	0.00E+00	3.35E-01
Sample ID: 587222	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	<6.08E-01	0.00E+00	6.08E-01
Sample ID: 587473	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.55E-02	0.00E+00	2.55E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	4.39E-01	2.10E-01	6.61E-02
Sample ID: 587799	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<5.63E-01	0.00E+00	5.63E-01
Sample ID: 588334	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<6.56E-01	0.00E+00	6.56E-01
Sample ID: 588620	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	<5.07E-01	0.00E+00	5.07E-01
Sample ID: 589575	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	3.04E-01	1.85E-01	1.79E-01
Sample ID: 589832	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 589832	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<4.66E-01	0.00E+00	4.66E-01
Sample ID: 590047	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 590382	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 590517	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
Sample ID: 590671	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 591230	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
Sample ID: 591470	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
Sample ID: 591652	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
Sample ID: 591855	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 592220	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 592220	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	<5.71E-01	0.00E+00	5.71E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 592435	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	3.17E-01	2.56E-01	3.74E-01
Sample ID: 593033	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	6.10E-01	2.84E-01	2.97E-01
Sample ID: 593202	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	3.16E-01	2.09E-01	2.49E-01
Sample ID: 593585	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	8.21E-01	3.45E-01	3.73E-01
Sample ID: 593836	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	3.04E-01	2.26E-01	2.99E-01
Sample ID: 594311	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<3.37E-02	0.00E+00	3.37E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	7.81E-01	3.04E-01	2.51E-01
Sample ID: 594823	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	5.10E-01	2.56E-01	2.95E-01
Sample ID: 595018	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	9.50E-01	3.44E-01	8.05E-02
Sample ID: 595664	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	6.26E-01	2.82E-01	2.85E-01
Sample ID: 596422	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	6.36E-01	2.76E-01	2.56E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 596812	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	1.14E+00	3.65E-01	2.58E-01
Sample ID: 597313	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	8.57E-01	3.02E-01	6.83E-02
Sample ID: 597896	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.50E-01	2.38E-01	2.50E-01
Sample ID: 598240	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	2.88E-01	1.97E-01	2.37E-01
Sample ID: 598893	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.97E-01	2.44E-01	6.47E-02
Sample ID: 599092	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<3.89E-01	0.00E+00	3.89E-01
Sample ID: 599487	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	5.20E-01	2.55E-01	2.48E-01
Sample ID: 600335	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	<5.35E-01	0.00E+00	5.35E-01
Sample ID: 601150	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	3.98E-01	2.26E-01	2.30E-01
Sample ID: 601312	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	4.85E-01	2.42E-01	2.37E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 601806	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID: 602289	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	6.99E-01	3.21E-01	3.53E-01
Sample ID: 602534	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.48E-02	0.00E+00	5.48E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.78E-02	0.00E+00	2.78E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<6.60E-01	0.00E+00	6.60E-01
Sample ID: 602741	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.29E-02	0.00E+00	4.29E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<3.49E-02	0.00E+00	3.49E-02
		Be-7	<2.79E-01	0.00E+00	2.79E-01
		K-40	<8.80E-01	0.00E+00	8.80E-01
Sample Point 26 [INDICATOR - S @ 4.7 miles]					
Sample ID: 582689	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID: 582987	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<9.28E-02	0.00E+00	9.28E-02
		K-40	<3.17E-01	0.00E+00	3.17E-01
Sample ID: 583169	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	3.76E-01	2.75E-01	3.76E-01
Sample ID: 583522	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	3.14E-01	1.93E-01	1.95E-01
Sample ID: 584250	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	4.57E-01	2.39E-01	2.36E-01
Sample ID: 584955	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 584955	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	5.56E-01	2.49E-01	1.95E-01
Sample ID: 585381	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.38E-02	0.00E+00	3.38E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	6.15E-01	3.15E-01	3.64E-01
Sample ID: 585589	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	3.25E-01	2.17E-01	2.66E-01
Sample ID: 585842	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	5.63E-01	2.66E-01	2.62E-01
Sample ID: 586102	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.49E-02	0.00E+00	1.49E-02
		Cs-134	<5.42E-03	0.00E+00	5.42E-03
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<4.07E-01	0.00E+00	4.07E-01
Sample ID: 586695	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	5.49E-01	2.86E-01	3.38E-01
Sample ID: 586961	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.19E-01	2.52E-01	6.71E-02
Sample ID: 587220	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	<5.45E-01	0.00E+00	5.45E-01
Sample ID: 587471	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	6.18E-01	3.58E-01	4.87E-01
Sample ID: 587797	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	4.85E-01	2.43E-01	2.38E-01
Sample ID: 588332	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 588332	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID: 588618	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 589573	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 589830	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 590045	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 590380	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 590515	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
Sample ID: 590669	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
Sample ID: 591228	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
Sample ID: 591468	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	7.80E-01	3.08E-01	2.69E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 591650	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<6.02E-01	0.00E+00	6.02E-01
Sample ID: 591853	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.60E-01	2.44E-01	2.62E-01
Sample ID: 592218	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	7.04E-01	2.92E-01	2.48E-01
Sample ID: 592433	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	6.36E-01	2.74E-01	2.50E-01
Sample ID: 593031	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	4.32E-01	2.58E-01	3.22E-01
Sample ID: 593200	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	4.78E-01	2.54E-01	2.82E-01
Sample ID: 593583	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<9.80E-02	0.00E+00	9.80E-02
		K-40	3.23E-01	2.40E-01	3.31E-01
Sample ID: 593834	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	9.96E-01	3.21E-01	6.58E-02
Sample ID: 594309	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<4.43E-03	0.00E+00	4.43E-03
		Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	5.84E-01	2.86E-01	3.12E-01
Sample ID: 594821	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	4.60E-01	2.00E-01	5.67E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 595016	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	<6.89E-01	0.00E+00	6.89E-01
Sample ID: 595662	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	<4.89E-01	0.00E+00	4.89E-01
Sample ID: 596420	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	6.81E-01	2.63E-01	6.60E-02
Sample ID: 596810	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.73E-02	0.00E+00	3.73E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	<6.66E-01	0.00E+00	6.66E-01
Sample ID: 597311	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	7.42E-01	2.77E-01	6.70E-02
Sample ID: 597894	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	6.59E-01	2.55E-01	6.38E-02
Sample ID: 598238	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<3.34E-02	0.00E+00	3.34E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	<5.57E-01	0.00E+00	5.57E-01
Sample ID: 598891	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	4.03E-01	1.98E-01	6.43E-02
Sample ID: 599090	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	2.88E-01	2.05E-01	2.56E-01
Sample ID: 599485	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	3.06E-01	2.31E-01	3.17E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 600333	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.81E-02	0.00E+00	1.81E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	2.94E-01	1.92E-01	2.16E-01
Sample ID: 601148	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	6.37E-01	2.55E-01	6.64E-02
Sample ID: 601310	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	<6.33E-01	0.00E+00	6.33E-01
Sample ID: 601804	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.98E-01	2.63E-01	2.31E-01
Sample ID: 602287	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	5.41E-01	2.80E-01	3.15E-01
Sample ID: 602532	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.13E-02	0.00E+00	6.13E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	<5.79E-01	0.00E+00	5.79E-01
Sample ID: 602739	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.70E-02	0.00E+00	4.70E-02
		Cs-134	<3.61E-02	0.00E+00	3.61E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	<8.09E-01	0.00E+00	8.09E-01

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 582692	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	<6.52E-01	0.00E+00	6.52E-01
Sample ID: 582990	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	<3.27E-01	0.00E+00	3.27E-01
Sample ID: 583172	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 583172	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	<5.49E-01	0.00E+00	5.49E-01
Sample ID: 583525	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	5.03E-01	2.29E-01	6.82E-02
Sample ID: 584253	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	5.41E-01	2.30E-01	6.38E-02
Sample ID: 584958	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.20E-01	2.63E-01	3.85E-01
Sample ID: 585384	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	2.51E-01	2.09E-01	2.84E-01
Sample ID: 585592	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	3.30E-01	2.45E-01	3.25E-01
Sample ID: 585845	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<3.63E-02	0.00E+00	3.63E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<2.65E-01	0.00E+00	2.65E-01
		K-40	7.17E-01	3.18E-01	3.15E-01
Sample ID: 586105	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	5.15E-01	2.28E-01	6.65E-02
Sample ID: 586698	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.25E-01	2.64E-01	2.91E-01
Sample ID: 586964	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.33E-02	0.00E+00	4.33E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<2.43E-01	0.00E+00	2.43E-01
		K-40	5.58E-01	2.95E-01	3.27E-01
Sample ID: 587223	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 587223	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	5.58E-01	2.88E-01	3.16E-01
Sample ID: 587474	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
Sample ID: 587800	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
Sample ID: 588335	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.05E-02	0.00E+00	4.05E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<3.49E-02	0.00E+00	3.49E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
Sample ID: 588621	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 589576	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
Sample ID: 589833	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 590048	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
Sample ID: 590383	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 590518	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	7.42E-01	2.97E-01	7.74E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 590672	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.40E-02	0.00E+00	1.40E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	4.79E-01	2.72E-01	3.42E-01
Sample ID: 591231	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.38E-01	2.15E-01	6.98E-02
Sample ID: 591471	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		K-40	<5.91E-01	0.00E+00	5.91E-01
Sample ID: 591653	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	8.68E-01	3.23E-01	2.59E-01
Sample ID: 591856	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	3.17E-01	1.71E-01	6.14E-02
Sample ID: 592221	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	<6.52E-01	0.00E+00	6.52E-01
Sample ID: 592436	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.70E-01	2.19E-01	6.71E-02
Sample ID: 593034	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<4.55E-03	0.00E+00	4.55E-03
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<5.91E-01	0.00E+00	5.91E-01
Sample ID: 593203	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	4.68E-01	2.94E-01	3.98E-01
Sample ID: 593586	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<5.62E-03	0.00E+00	5.62E-03
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	7.44E-01	2.87E-01	7.21E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 593837	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID: 594312	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	3.08E-01	2.82E-01	4.32E-01
Sample ID: 594824	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	4.77E-01	1.98E-01	5.39E-02
Sample ID: 595019	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	6.93E-01	2.88E-01	7.83E-02
Sample ID: 595665	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<6.14E-01	0.00E+00	6.14E-01
Sample ID: 596423	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	<6.30E-01	0.00E+00	6.30E-01
Sample ID: 596813	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	6.76E-01	2.96E-01	3.08E-01
Sample ID: 597314	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	3.65E-01	2.29E-01	2.54E-01
Sample ID: 597897	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	6.90E-01	3.28E-01	3.80E-01
Sample ID: 598241	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<5.59E-01	0.00E+00	5.59E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 598894	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	3.39E-01	1.85E-01	1.55E-01
Sample ID: 599093	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	<5.13E-01	0.00E+00	5.13E-01
Sample ID: 599488	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.09E-01	2.40E-01	2.12E-01
Sample ID: 600336	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<4.08E-01	0.00E+00	4.08E-01
Sample ID: 601151	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	4.55E-01	2.93E-01	4.00E-01
Sample ID: 601313	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	6.13E-01	2.78E-01	2.55E-01
Sample ID: 601807	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.70E-01	2.64E-01	6.73E-02
Sample ID: 602290	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.80E-02	0.00E+00	4.80E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	4.82E-01	2.47E-01	2.42E-01
Sample ID: 602535	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.26E-02	0.00E+00	6.26E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	6.00E-01	2.68E-01	2.47E-01
Sample ID: 602742	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.27E-02	0.00E+00	4.27E-02
		Cs-134	<3.79E-02	0.00E+00	3.79E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<3.36E-01	0.00E+00	3.36E-01
		K-40	8.84E-01	3.60E-01	9.58E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 582693	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	2.07E-01	2.83E-01	4.68E-01
Sample ID: 582991	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	2.97E-01	1.61E-01	5.76E-02
Sample ID: 583173	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	3.70E-01	2.00E-01	7.16E-02
Sample ID: 583526	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	3.21E-01	2.31E-01	3.07E-01
Sample ID: 584254	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	5.13E-01	2.86E-01	3.52E-01
Sample ID: 584959	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	<4.81E-01	0.00E+00	4.81E-01
Sample ID: 585385	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	3.83E-01	2.06E-01	1.95E-01
Sample ID: 585593	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	<5.65E-01	0.00E+00	5.65E-01
Sample ID: 585846	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	6.07E-01	2.74E-01	2.61E-01
Sample ID: 586106	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	3.46E-01	2.03E-01	2.08E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 586699	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	<6.31E-01	0.00E+00	6.31E-01
Sample ID: 586965	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	6.07E-01	2.83E-01	2.80E-01
Sample ID: 587224	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	7.29E-01	2.97E-01	2.61E-01
Sample ID: 587475	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	7.24E-01	2.75E-01	6.76E-02
Sample ID: 587801	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	2.51E-01	2.14E-01	3.07E-01
Sample ID: 588336	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	<4.96E-01	0.00E+00	4.96E-01
Sample ID: 588622	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	<3.05E-01	0.00E+00	3.05E-01
Sample ID: 589577	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	<4.51E-01	0.00E+00	4.51E-01
Sample ID: 589834	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	1.40E-01	2.54E-01	4.37E-01
Sample ID: 590049	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	6.69E-01	2.68E-01	6.97E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 590384	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.08E-02	0.00E+00	1.08E-02
		Be-7	<7.24E-02	0.00E+00	7.24E-02
		K-40	<3.09E-01	0.00E+00	3.09E-01
Sample ID: 590519	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	7.58E-01	3.27E-01	3.03E-01
Sample ID: 590673	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	5.64E-01	2.69E-01	2.81E-01
Sample ID: 591232	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	6.28E-01	2.80E-01	2.56E-01
Sample ID: 591472	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	5.14E-01	2.66E-01	2.81E-01
Sample ID: 591654	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	4.45E-01	2.34E-01	2.35E-01
Sample ID: 591857	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	3.43E-01	2.44E-01	3.29E-01
Sample ID: 592222	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<4.74E-03	0.00E+00	4.74E-03
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	<5.73E-01	0.00E+00	5.73E-01
Sample ID: 592437	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	5.59E-01	2.84E-01	3.26E-01
Sample ID: 593035	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	5.48E-01	2.93E-01	3.43E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 593204	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	3.39E-01	2.30E-01	2.95E-01
Sample ID: 593587	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	6.89E-01	3.35E-01	3.92E-01
Sample ID: 593838	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	7.59E-01	3.18E-01	3.12E-01
Sample ID: 594313	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	3.56E-01	2.28E-01	2.73E-01
Sample ID: 594825	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	4.18E-01	2.25E-01	2.58E-01
Sample ID: 595020	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	7.92E-01	3.34E-01	2.68E-01
Sample ID: 595666	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.32E-01	0.00E+00	5.32E-01
Sample ID: 596424	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.28E-02	0.00E+00	3.28E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	3.73E-01	2.49E-01	3.26E-01
Sample ID: 596814	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.58E-02	0.00E+00	4.58E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	5.91E-01	3.05E-01	3.42E-01
Sample ID: 597315	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	6.67E-01	2.67E-01	6.95E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 597898	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	5.87E-01	2.62E-01	2.30E-01
Sample ID: 598242	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.29E-01	0.00E+00	5.29E-01
Sample ID: 598895	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<4.92E-03	0.00E+00	4.92E-03
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<3.75E-01	0.00E+00	3.75E-01
Sample ID: 599094	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<3.14E-01	0.00E+00	3.14E-01
Sample ID: 599489	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	<5.74E-01	0.00E+00	5.74E-01
Sample ID: 600337	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	<6.68E-01	0.00E+00	6.68E-01
Sample ID: 601152	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.04E-01	0.00E+00	5.04E-01
Sample ID: 601314	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<6.50E-01	0.00E+00	6.50E-01
Sample ID: 601808	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	5.05E-01	2.24E-01	6.51E-02
Sample ID: 602291	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.74E-02	0.00E+00	3.74E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<2.78E-01	0.00E+00	2.78E-01
		K-40	<5.46E-01	0.00E+00	5.46E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	602536	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.23E-02	0.00E+00	5.23E-02
				Cs-134	<2.89E-02	0.00E+00	2.89E-02
				Cs-137	<2.19E-02	0.00E+00	2.19E-02
				Be-7	<2.68E-01	0.00E+00	2.68E-01
				K-40	7.15E-01	2.67E-01	6.46E-02

Sample ID:	602743	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.85E-02	0.00E+00	4.85E-02
				Cs-134	<4.04E-02	0.00E+00	4.04E-02
				Cs-137	<3.46E-02	0.00E+00	3.46E-02
				Be-7	<2.50E-01	0.00E+00	2.50E-01
				K-40	8.06E-01	4.42E-01	5.53E-01

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	582694	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.84E-02	0.00E+00	2.84E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<2.90E-02	0.00E+00	2.90E-02
				Be-7	<2.13E-01	0.00E+00	2.13E-01
				K-40	9.26E-01	3.66E-01	3.19E-01

Sample ID:	582992	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.53E-02	0.00E+00	3.53E-02
				Cs-134	<2.50E-02	0.00E+00	2.50E-02
				Cs-137	<1.82E-02	0.00E+00	1.82E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	3.25E-01	2.49E-01	3.53E-01

Sample ID:	583174	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.16E-02	0.00E+00	4.16E-02
				Cs-134	<2.96E-02	0.00E+00	2.96E-02
				Cs-137	<2.91E-02	0.00E+00	2.91E-02
				Be-7	<2.46E-01	0.00E+00	2.46E-01
				K-40	6.44E-01	3.34E-01	3.76E-01

Sample ID:	583527	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.29E-02	0.00E+00	4.29E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<2.83E-02	0.00E+00	2.83E-02
				Be-7	<2.04E-01	0.00E+00	2.04E-01
				K-40	<6.05E-01	0.00E+00	6.05E-01

Sample ID:	584255	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.91E-02	0.00E+00	3.91E-02
				Cs-134	<2.64E-02	0.00E+00	2.64E-02
				Cs-137	<2.59E-02	0.00E+00	2.59E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	4.26E-01	2.60E-01	3.13E-01

Sample ID:	584960	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.87E-02	0.00E+00	2.87E-02
				Cs-134	<2.81E-02	0.00E+00	2.81E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	<5.24E-01	0.00E+00	5.24E-01

Sample ID:	585386	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.02E-02	0.00E+00	3.02E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	8.01E-01	3.05E-01	2.45E-01

Sample ID:	585594	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.00E-02	0.00E+00	2.00E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 585594	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.10E-01	2.26E-01	6.58E-02
Sample ID: 585847	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.40E-01	2.70E-01	2.30E-01
Sample ID: 586107	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	4.10E-01	2.29E-01	2.37E-01
Sample ID: 586700	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	4.39E-01	2.24E-01	2.07E-01
Sample ID: 586966	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.05E-01	2.15E-01	2.75E-01
Sample ID: 587225	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.62E-01	2.85E-01	3.31E-01
Sample ID: 587476	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.79E-01	2.41E-01	6.54E-02
Sample ID: 587802	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	<4.04E-01	0.00E+00	4.04E-01
Sample ID: 588337	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<4.93E-01	0.00E+00	4.93E-01
Sample ID: 588623	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	8.32E-01	2.93E-01	6.64E-02
Sample ID: 589578	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 589578	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	<3.00E-01	0.00E+00	3.00E-01
Sample ID: 589835	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 590050	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
Sample ID: 590385	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.61E-02	0.00E+00	1.61E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 590520	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<3.37E-02	0.00E+00	3.37E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 590674	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
Sample ID: 591233	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 591473	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
Sample ID: 591655	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 591858	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<5.07E-03	0.00E+00	5.07E-03
		Cs-137	<4.38E-03	0.00E+00	4.38E-03
		Be-7	<7.91E-02	0.00E+00	7.91E-02
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.29E-01	2.61E-01	2.68E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 592223	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<5.87E-01	0.00E+00	5.87E-01
Sample ID: 592438	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	4.99E-01	2.27E-01	6.76E-02
Sample ID: 593036	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.56E-02	0.00E+00	3.56E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	1.12E+00	4.18E-01	4.56E-01
Sample ID: 593205	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	4.01E-01	2.67E-01	3.55E-01
Sample ID: 593588	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	7.86E-01	3.18E-01	2.84E-01
Sample ID: 593839	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	5.24E-01	2.50E-01	2.28E-01
Sample ID: 594314	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID: 594826	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	3.97E-01	2.11E-01	2.33E-01
Sample ID: 595021	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	6.05E-01	2.68E-01	7.81E-02
Sample ID: 595667	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	6.75E-01	2.87E-01	2.50E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 596425	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	9.98E-01	3.44E-01	2.53E-01
Sample ID: 596815	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	7.25E-01	2.67E-01	6.34E-02
Sample ID: 597316	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	7.54E-01	3.10E-01	2.68E-01
Sample ID: 597899	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	4.17E-01	2.40E-01	2.62E-01
Sample ID: 598243	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	4.39E-01	2.59E-01	3.12E-01
Sample ID: 598896	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	<4.65E-01	0.00E+00	4.65E-01
Sample ID: 599095	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	5.96E-01	2.48E-01	6.73E-02
Sample ID: 599490	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<6.42E-01	0.00E+00	6.42E-01
Sample ID: 600338	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<2.28E-01	0.00E+00	2.28E-01
		K-40	5.21E-01	2.73E-01	2.69E-01
Sample ID: 601153	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	<4.58E-01	0.00E+00	4.58E-01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 601315	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
		K-40	8.40E-01	3.34E-01	3.05E-01
Sample ID: 601809	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	4.14E-01	2.53E-01	3.05E-01
Sample ID: 602292	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<2.52E-01	0.00E+00	2.52E-01
		K-40	4.36E-01	3.21E-01	4.66E-01
Sample ID: 602537	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.86E-02	0.00E+00	4.86E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
		K-40	6.82E-01	3.04E-01	3.21E-01
Sample ID: 602744	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.31E-02	0.00E+00	4.31E-02
		Cs-134	<4.80E-02	0.00E+00	4.80E-02
		Cs-137	<3.59E-02	0.00E+00	3.59E-02
		Be-7	<2.67E-01	0.00E+00	2.67E-01
		K-40	9.00E-01	4.46E-01	5.24E-01

Media Type: AQUATIC VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 592214	Sample Dates: 7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.97E+01	0.00E+00	1.97E+01
		Co-58	<2.20E+01	0.00E+00	2.20E+01
		Fe-59	<3.77E+01	0.00E+00	3.77E+01
		Co-60	<1.69E+01	0.00E+00	1.69E+01
		Zn-65	<5.19E+01	0.00E+00	5.19E+01
		Zr-95	<3.16E+01	0.00E+00	3.16E+01
		Nb-95	<1.41E+01	0.00E+00	1.41E+01
		I-131	<2.21E+01	0.00E+00	2.21E+01
		Cs-134	<2.21E+01	0.00E+00	2.21E+01
		Cs-137	<1.75E+01	0.00E+00	1.75E+01
		BaLa-140	<2.68E+01	0.00E+00	2.68E+01
		Be-7	1.52E+02	1.34E+02	2.11E+02
		K-40	4.62E+03	6.77E+02	2.87E+02

Sample Point 41 [INDICATOR - S @ 3.8 miles]

Sample ID: 592215	Sample Dates: 7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.89E+01	0.00E+00	1.89E+01
		Co-58	<2.05E+01	0.00E+00	2.05E+01
		Fe-59	<3.76E+01	0.00E+00	3.76E+01
		Co-60	<2.22E+01	0.00E+00	2.22E+01
		Zn-65	<4.36E+01	0.00E+00	4.36E+01
		Zr-95	<3.68E+01	0.00E+00	3.68E+01
		Nb-95	<2.09E+01	0.00E+00	2.09E+01
		I-131	<2.26E+01	0.00E+00	2.26E+01
		Cs-134	<2.29E+01	0.00E+00	2.29E+01
		Cs-137	<2.17E+01	0.00E+00	2.17E+01
		BaLa-140	<6.02E+00	0.00E+00	6.02E+00
		Be-7	8.82E+01	1.53E+02	2.57E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AQUATIC VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 41 [INDICATOR - S @ 3.8 miles]

Sample ID:	592215	Sample Dates:	7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	4.89E+03	7.14E+02	3.62E+02

Sample Point 61 [CONTROL - E @ 2.5 miles]

Sample ID:	592216	Sample Dates:	7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.07E+01	0.00E+00	2.07E+01
				Co-58	<2.16E+01	0.00E+00	2.16E+01
				Fe-59	<3.83E+01	0.00E+00	3.83E+01
				Co-60	<2.10E+01	0.00E+00	2.10E+01
				Zn-65	<4.44E+01	0.00E+00	4.44E+01
				Zr-95	<3.05E+01	0.00E+00	3.05E+01
				Nb-95	<2.12E+01	0.00E+00	2.12E+01
				I-131	<1.88E+01	0.00E+00	1.88E+01
				Cs-134	<2.24E+01	0.00E+00	2.24E+01
				Cs-137	<2.14E+01	0.00E+00	2.14E+01
				BaLa-140	<2.12E+01	0.00E+00	2.12E+01
				Be-7	3.05E+02	1.54E+02	2.17E+02
				K-40	3.72E+03	6.01E+02	3.47E+02

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID:	583555	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.96E+00	4.40E+00	3.27E+00
				Mn-54	<3.22E+00	0.00E+00	3.22E+00
				Co-58	<3.33E+00	0.00E+00	3.33E+00
				Fe-59	<9.43E+00	0.00E+00	9.43E+00
				Co-60	<4.03E+00	0.00E+00	4.03E+00
				Zn-65	<7.14E+00	0.00E+00	7.14E+00
				Zr-95	<7.55E+00	0.00E+00	7.55E+00
				Nb-95	<4.34E+00	0.00E+00	4.34E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<3.34E+00	0.00E+00	3.34E+00
				Cs-137	<3.23E+00	0.00E+00	3.23E+00
				BaLa-140	<6.27E+00	0.00E+00	6.27E+00
				Be-7	<3.61E+01	0.00E+00	3.61E+01
				K-40	9.76E+01	3.90E+01	4.71E+01

Sample ID:	585622	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.24E+00	0.00E+00	3.24E+00
				Mn-54	<3.04E+00	0.00E+00	3.04E+00
				Co-58	<3.14E+00	0.00E+00	3.14E+00
				Fe-59	<6.51E+00	0.00E+00	6.51E+00
				Co-60	<2.92E+00	0.00E+00	2.92E+00
				Zn-65	<6.06E+00	0.00E+00	6.06E+00
				Zr-95	<6.00E+00	0.00E+00	6.00E+00
				Nb-95	<4.04E+00	0.00E+00	4.04E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<3.59E+00	0.00E+00	3.59E+00
				Cs-137	<3.14E+00	0.00E+00	3.14E+00
				BaLa-140	<9.63E+00	0.00E+00	9.63E+00
				Be-7	<3.00E+01	0.00E+00	3.00E+01
				K-40	<6.67E+01	0.00E+00	6.67E+01

Sample ID:	586994	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.29E+00	0.00E+00	3.29E+00
				Mn-54	<3.23E+00	0.00E+00	3.23E+00
				Co-58	<2.53E+00	0.00E+00	2.53E+00
				Fe-59	<7.27E+00	0.00E+00	7.27E+00
				Co-60	<3.82E+00	0.00E+00	3.82E+00
				Zn-65	<6.22E+00	0.00E+00	6.22E+00
				Zr-95	<5.42E+00	0.00E+00	5.42E+00
				Nb-95	<4.25E+00	0.00E+00	4.25E+00
				I-131	<1.21E+01	0.00E+00	1.21E+01
				Cs-134	<4.20E+00	0.00E+00	4.20E+00
				Cs-137	<2.86E+00	0.00E+00	2.86E+00
				BaLa-140	<6.78E+00	0.00E+00	6.78E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 586994	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.93E+01	0.00E+00	2.93E+01
		K-40	<6.60E+01	0.00E+00	6.60E+01
Sample ID: 585982	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.22E+02	0.00E+00	1.93E+02
Sample ID: 588365	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<4.61E+00	0.00E+00	4.61E+00
		Co-58	<4.71E+00	0.00E+00	4.71E+00
		Fe-59	<6.25E+00	0.00E+00	6.25E+00
		Co-60	<3.67E+00	0.00E+00	3.67E+00
		Zn-65	<8.22E+00	0.00E+00	8.22E+00
		Zr-95	<6.56E+00	0.00E+00	6.56E+00
		Nb-95	<4.16E+00	0.00E+00	4.16E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.47E+00	0.00E+00	4.47E+00
		Cs-137	<4.28E+00	0.00E+00	4.28E+00
		BaLa-140	<1.14E+01	0.00E+00	1.14E+01
		Be-7	<3.98E+01	0.00E+00	3.98E+01
		K-40	<8.30E+01	0.00E+00	8.30E+01
Sample ID: 590086	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.17E+00	4.21E+00	3.16E+00
		Mn-54	<3.02E+00	0.00E+00	3.02E+00
		Co-58	<4.49E+00	0.00E+00	4.49E+00
		Fe-59	<7.51E+00	0.00E+00	7.51E+00
		Co-60	<4.03E+00	0.00E+00	4.03E+00
		Zn-65	<8.24E+00	0.00E+00	8.24E+00
		Zr-95	<6.91E+00	0.00E+00	6.91E+00
		Nb-95	<3.30E+00	0.00E+00	3.30E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.88E+00	0.00E+00	3.88E+00
		Cs-137	<3.09E+00	0.00E+00	3.09E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	8.14E+01	3.88E+01	4.75E+01
Sample ID: 591261	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.15E+00	0.00E+00	3.15E+00
		Co-58	<2.38E+00	0.00E+00	2.38E+00
		Fe-59	<6.82E+00	0.00E+00	6.82E+00
		Co-60	<2.72E+00	0.00E+00	2.72E+00
		Zn-65	<6.55E+00	0.00E+00	6.55E+00
		Zr-95	<4.77E+00	0.00E+00	4.77E+00
		Nb-95	<3.33E+00	0.00E+00	3.33E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<2.37E+00	0.00E+00	2.37E+00
		Cs-137	<3.35E+00	0.00E+00	3.35E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Be-7	<3.17E+01	0.00E+00	3.17E+01
		K-40	1.15E+02	3.10E+01	2.05E+01
Sample ID: 590599	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.66E+02	0.00E+00	1.79E+02
Sample ID: 592251	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.19E+00	4.24E+00	3.18E+00
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<3.63E+00	0.00E+00	3.63E+00
		Fe-59	<6.91E+00	0.00E+00	6.91E+00
		Co-60	<2.75E+00	0.00E+00	2.75E+00
		Zn-65	<5.57E+00	0.00E+00	5.57E+00
		Zr-95	<6.32E+00	0.00E+00	6.32E+00
		Nb-95	<4.17E+00	0.00E+00	4.17E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 592251	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.48E+00	0.00E+00	3.48E+00
		Cs-137	<3.11E+00	0.00E+00	3.11E+00
		BaLa-140	<8.07E+00	0.00E+00	8.07E+00
		Be-7	<2.46E+01	0.00E+00	2.46E+01
		K-40	6.78E+01	3.33E+01	4.55E+01
Sample ID: 593627	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<2.60E+00	0.00E+00	2.60E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<7.16E+00	0.00E+00	7.16E+00
		Co-60	<4.01E+00	0.00E+00	4.01E+00
		Zn-65	<7.82E+00	0.00E+00	7.82E+00
		Zr-95	<4.15E+00	0.00E+00	4.15E+00
		Nb-95	<3.87E+00	0.00E+00	3.87E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<3.00E+00	0.00E+00	3.00E+00
		Cs-137	<2.41E+00	0.00E+00	2.41E+00
		BaLa-140	<6.70E+00	0.00E+00	6.70E+00
		Be-7	<3.05E+01	0.00E+00	3.05E+01
Sample ID: 595060	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<3.10E+00	0.00E+00	3.10E+00
		Co-58	<3.56E+00	0.00E+00	3.56E+00
		Fe-59	<6.31E+00	0.00E+00	6.31E+00
		Co-60	<3.31E+00	0.00E+00	3.31E+00
		Zn-65	<5.83E+00	0.00E+00	5.83E+00
		Zr-95	<6.32E+00	0.00E+00	6.32E+00
		Nb-95	<4.82E+00	0.00E+00	4.82E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.50E+00	0.00E+00	3.50E+00
		Cs-137	<2.29E+00	0.00E+00	2.29E+00
		BaLa-140	<6.88E+00	0.00E+00	6.88E+00
		Be-7	<3.14E+01	0.00E+00	3.14E+01
Sample ID: 594957	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<9.67E+01	0.00E+00	1.95E+02
Sample ID: 597372	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.55E+00	4.27E+00	3.17E+00
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<3.38E+00	0.00E+00	3.38E+00
		Fe-59	<8.03E+00	0.00E+00	8.03E+00
		Co-60	<3.07E+00	0.00E+00	3.07E+00
		Zn-65	<6.85E+00	0.00E+00	6.85E+00
		Zr-95	<5.74E+00	0.00E+00	5.74E+00
		Nb-95	<3.94E+00	0.00E+00	3.94E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.36E+00	0.00E+00	4.36E+00
		Cs-137	<2.83E+00	0.00E+00	2.83E+00
		BaLa-140	<5.93E+00	0.00E+00	5.93E+00
		Be-7	<2.85E+01	0.00E+00	2.85E+01
Sample ID: 599123	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.78E+00	4.29E+00	3.18E+00
		Mn-54	<3.53E+00	0.00E+00	3.53E+00
		Co-58	<3.57E+00	0.00E+00	3.57E+00
		Fe-59	<6.76E+00	0.00E+00	6.76E+00
		Co-60	<3.77E+00	0.00E+00	3.77E+00
		Zn-65	<8.66E+00	0.00E+00	8.66E+00
		Zr-95	<7.16E+00	0.00E+00	7.16E+00
		Nb-95	<4.16E+00	0.00E+00	4.16E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 599123	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.55E+00	0.00E+00	3.55E+00
		Cs-137	<3.31E+00	0.00E+00	3.31E+00
		BaLa-140	<8.97E+00	0.00E+00	8.97E+00
		Be-7	<3.49E+01	0.00E+00	3.49E+01
		K-40	1.15E+02	4.21E+01	4.86E+01
Sample ID: 601343	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.22E+00	4.41E+00	3.29E+00
		Mn-54	<2.74E+00	0.00E+00	2.74E+00
		Co-58	<2.81E+00	0.00E+00	2.81E+00
		Fe-59	<5.49E+00	0.00E+00	5.49E+00
		Co-60	<1.85E+00	0.00E+00	1.85E+00
		Zn-65	<5.29E+00	0.00E+00	5.29E+00
		Zr-95	<4.64E+00	0.00E+00	4.64E+00
		Nb-95	<3.94E+00	0.00E+00	3.94E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<3.37E+00	0.00E+00	3.37E+00
		Cs-137	<2.98E+00	0.00E+00	2.98E+00
		BaLa-140	<7.69E+00	0.00E+00	7.69E+00
		Be-7	<2.33E+01	0.00E+00	2.33E+01
Sample ID: 601688	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-3.2E+01	0.00E+00	2.00E+02
Sample ID: 602775	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.73E+00	4.28E+00	3.17E+00
		Mn-54	<2.06E+00	0.00E+00	2.06E+00
		Co-58	<2.38E+00	0.00E+00	2.38E+00
		Fe-59	<4.30E+00	0.00E+00	4.30E+00
		Co-60	<1.76E+00	0.00E+00	1.76E+00
		Zn-65	<3.91E+00	0.00E+00	3.91E+00
		Zr-95	<3.77E+00	0.00E+00	3.77E+00
		Nb-95	<3.16E+00	0.00E+00	3.16E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<2.16E+00	0.00E+00	2.16E+00
		Cs-137	<1.93E+00	0.00E+00	1.93E+00
		BaLa-140	<5.19E+00	0.00E+00	5.19E+00
		Be-7	<1.93E+01	0.00E+00	1.93E+01
		K-40	6.43E+01	2.55E+01	3.52E+01

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 583556	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.49E+00	4.37E+00	3.27E+00
		Mn-54	<3.96E+00	0.00E+00	3.96E+00
		Co-58	<3.83E+00	0.00E+00	3.83E+00
		Fe-59	<6.92E+00	0.00E+00	6.92E+00
		Co-60	<3.37E+00	0.00E+00	3.37E+00
		Zn-65	<9.96E+00	0.00E+00	9.96E+00
		Zr-95	<7.61E+00	0.00E+00	7.61E+00
		Nb-95	<7.02E+00	0.00E+00	7.02E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<4.22E+00	0.00E+00	4.22E+00
		Cs-137	<4.65E+00	0.00E+00	4.65E+00
		BaLa-140	<9.48E+00	0.00E+00	9.48E+00
		Be-7	<3.38E+01	0.00E+00	3.38E+01
Sample ID: 585623	Sample Dates: 1/23/2023 - 2/20/2023	K-40	7.86E+01	4.18E+01	5.89E+01
		H3DW	3.56E+03	2.02E+02	1.95E+02
		Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.24E+00	0.00E+00	3.24E+00
		Mn-54	<2.67E+00	0.00E+00	2.67E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<6.36E+00	0.00E+00	6.36E+00
		Co-60	<2.96E+00	0.00E+00	2.96E+00
		Zn-65	<5.94E+00	0.00E+00	5.94E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 585623	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zr-95	<4.74E+00	0.00E+00	4.74E+00
		Nb-95	<3.11E+00	0.00E+00	3.11E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<2.46E+00	0.00E+00	2.46E+00
		Cs-137	<2.34E+00	0.00E+00	2.34E+00
		BaLa-140	<7.34E+00	0.00E+00	7.34E+00
		Be-7	<2.94E+01	0.00E+00	2.94E+01
		K-40	6.15E+01	3.01E+01	3.96E+01
		H3DW	3.84E+03	2.14E+02	1.95E+02
Sample ID: 586995	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.03E+00	0.00E+00	3.03E+00
		Co-58	<2.88E+00	0.00E+00	2.88E+00
		Fe-59	<6.52E+00	0.00E+00	6.52E+00
		Co-60	<3.14E+00	0.00E+00	3.14E+00
		Zn-65	<6.69E+00	0.00E+00	6.69E+00
		Zr-95	<5.97E+00	0.00E+00	5.97E+00
		Nb-95	<4.24E+00	0.00E+00	4.24E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.15E+00	0.00E+00	4.15E+00
		Cs-137	<2.53E+00	0.00E+00	2.53E+00
		BaLa-140	<6.21E+00	0.00E+00	6.21E+00
		Be-7	<2.65E+01	0.00E+00	2.65E+01
		K-40	<6.60E+01	0.00E+00	6.60E+01
		H3DW	3.07E+03	1.90E+02	1.89E+02
Sample ID: 588366	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<4.06E+00	0.00E+00	4.06E+00
		Fe-59	<6.28E+00	0.00E+00	6.28E+00
		Co-60	<3.86E+00	0.00E+00	3.86E+00
		Zn-65	<7.80E+00	0.00E+00	7.80E+00
		Zr-95	<7.42E+00	0.00E+00	7.42E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.18E+00	0.00E+00	4.18E+00
		Cs-137	<2.65E+00	0.00E+00	2.65E+00
		BaLa-140	<6.20E+00	0.00E+00	6.20E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	6.74E+01	3.59E+01	4.72E+01
		H3DW	2.36E+03	1.75E+02	1.91E+02
Sample ID: 590087	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.16E+00	0.00E+00	3.16E+00
		Mn-54	<3.31E+00	0.00E+00	3.31E+00
		Co-58	<3.57E+00	0.00E+00	3.57E+00
		Fe-59	<7.04E+00	0.00E+00	7.04E+00
		Co-60	<3.22E+00	0.00E+00	3.22E+00
		Zn-65	<6.25E+00	0.00E+00	6.25E+00
		Zr-95	<7.39E+00	0.00E+00	7.39E+00
		Nb-95	<4.88E+00	0.00E+00	4.88E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<3.08E+00	0.00E+00	3.08E+00
		Cs-137	<3.11E+00	0.00E+00	3.11E+00
		BaLa-140	<5.52E+00	0.00E+00	5.52E+00
		Be-7	<2.86E+01	0.00E+00	2.86E+01
		K-40	8.99E+01	3.32E+01	3.38E+01
		H3DW	1.92E+03	1.75E+02	2.03E+02
Sample ID: 591262	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.95E+00	0.00E+00	4.95E+00
		Co-58	<4.86E+00	0.00E+00	4.86E+00
		Fe-59	<8.31E+00	0.00E+00	8.31E+00
		Co-60	<4.21E+00	0.00E+00	4.21E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 591262	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zn-65	<8.47E+00	0.00E+00	8.47E+00
		Zr-95	<7.77E+00	0.00E+00	7.77E+00
		Nb-95	<5.70E+00	0.00E+00	5.70E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<4.86E+00	0.00E+00	4.86E+00
		Cs-137	<2.75E+00	0.00E+00	2.75E+00
		BaLa-140	<1.15E+01	0.00E+00	1.15E+01
		Be-7	<4.03E+01	0.00E+00	4.03E+01
		K-40	<5.21E+01	0.00E+00	5.21E+01
		H3DW	2.10E+03	1.68E+02	1.85E+02
Sample ID: 592252	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.05E+00	0.00E+00	3.05E+00
		Co-58	<3.29E+00	0.00E+00	3.29E+00
		Fe-59	<6.77E+00	0.00E+00	6.77E+00
		Co-60	<2.37E+00	0.00E+00	2.37E+00
		Zn-65	<6.05E+00	0.00E+00	6.05E+00
		Zr-95	<4.35E+00	0.00E+00	4.35E+00
		Nb-95	<3.06E+00	0.00E+00	3.06E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<3.84E+00	0.00E+00	3.84E+00
		Cs-137	<2.49E+00	0.00E+00	2.49E+00
		BaLa-140	<7.10E+00	0.00E+00	7.10E+00
		Be-7	<2.66E+01	0.00E+00	2.66E+01
		K-40	5.29E+01	4.30E+01	6.74E+01
		H3DW	1.86E+03	1.57E+02	1.79E+02
Sample ID: 593628	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<2.91E+00	0.00E+00	2.91E+00
		Co-58	<4.09E+00	0.00E+00	4.09E+00
		Fe-59	<7.69E+00	0.00E+00	7.69E+00
		Co-60	<3.23E+00	0.00E+00	3.23E+00
		Zn-65	<6.79E+00	0.00E+00	6.79E+00
		Zr-95	<5.41E+00	0.00E+00	5.41E+00
		Nb-95	<4.73E+00	0.00E+00	4.73E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<2.87E+00	0.00E+00	2.87E+00
		Cs-137	<3.34E+00	0.00E+00	3.34E+00
		BaLa-140	<6.31E+00	0.00E+00	6.31E+00
		Be-7	<3.35E+01	0.00E+00	3.35E+01
		K-40	7.56E+01	2.78E+01	6.61E+00
		H3DW	1.67E+03	1.69E+02	2.05E+02
Sample ID: 595061	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<3.83E+00	0.00E+00	3.83E+00
		Co-58	<3.10E+00	0.00E+00	3.10E+00
		Fe-59	<7.75E+00	0.00E+00	7.75E+00
		Co-60	<2.94E+00	0.00E+00	2.94E+00
		Zn-65	<6.87E+00	0.00E+00	6.87E+00
		Zr-95	<7.05E+00	0.00E+00	7.05E+00
		Nb-95	<4.23E+00	0.00E+00	4.23E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.35E+00	0.00E+00	3.35E+00
		Cs-137	<3.16E+00	0.00E+00	3.16E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<3.30E+01	0.00E+00	3.30E+01
		K-40	<6.73E+01	0.00E+00	6.73E+01
		H3DW	3.31E+03	2.05E+02	2.01E+02
Sample ID: 597373	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.45E+00	4.25E+00	3.17E+00
		Mn-54	<4.60E+00	0.00E+00	4.60E+00
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<1.42E+01	0.00E+00	1.42E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 597373	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<3.67E+00	0.00E+00	3.67E+00
		Zn-65	<9.40E+00	0.00E+00	9.40E+00
		Zr-95	<8.28E+00	0.00E+00	8.28E+00
		Nb-95	<4.70E+00	0.00E+00	4.70E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.69E+00	0.00E+00	4.69E+00
		Cs-137	<3.47E+00	0.00E+00	3.47E+00
		BaLa-140	<9.87E+00	0.00E+00	9.87E+00
		Be-7	<3.82E+01	0.00E+00	3.82E+01
		K-40	7.65E+01	3.84E+01	4.24E+01
		H3DW	3.79E+03	2.12E+02	1.94E+02

Sample ID: 599124	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.91E+00	0.00E+00	3.91E+00
		Co-58	<4.79E+00	0.00E+00	4.79E+00
		Fe-59	<8.27E+00	0.00E+00	8.27E+00
		Co-60	<3.67E+00	0.00E+00	3.67E+00
		Zn-65	<9.31E+00	0.00E+00	9.31E+00
		Zr-95	<7.99E+00	0.00E+00	7.99E+00
		Nb-95	<4.12E+00	0.00E+00	4.12E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.78E+00	0.00E+00	4.78E+00
		Cs-137	<4.32E+00	0.00E+00	4.32E+00
		BaLa-140	<1.17E+01	0.00E+00	1.17E+01
		Be-7	<3.35E+01	0.00E+00	3.35E+01
		K-40	8.59E+01	3.51E+01	3.25E+01
		H3DW	3.48E+03	1.91E+02	1.78E+02

Sample ID: 601344	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<2.94E+00	0.00E+00	2.94E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<5.88E+00	0.00E+00	5.88E+00
		Co-60	<2.56E+00	0.00E+00	2.56E+00
		Zn-65	<5.08E+00	0.00E+00	5.08E+00
		Zr-95	<6.02E+00	0.00E+00	6.02E+00
		Nb-95	<3.09E+00	0.00E+00	3.09E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.81E+00	0.00E+00	3.81E+00
		Cs-137	<3.47E+00	0.00E+00	3.47E+00
		BaLa-140	<7.49E+00	0.00E+00	7.49E+00
		Be-7	<2.96E+01	0.00E+00	2.96E+01
		K-40	4.58E+01	3.41E+01	5.18E+01
		H3DW	3.79E+03	2.20E+02	2.15E+02

Sample ID: 602776	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.70E+00	4.26E+00	3.17E+00
		Mn-54	<2.14E+00	0.00E+00	2.14E+00
		Co-58	<2.46E+00	0.00E+00	2.46E+00
		Fe-59	<4.93E+00	0.00E+00	4.93E+00
		Co-60	<1.86E+00	0.00E+00	1.86E+00
		Zn-65	<4.19E+00	0.00E+00	4.19E+00
		Zr-95	<3.90E+00	0.00E+00	3.90E+00
		Nb-95	<3.28E+00	0.00E+00	3.28E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.00E+00	0.00E+00	2.00E+00
		Cs-137	<2.02E+00	0.00E+00	2.02E+00
		BaLa-140	<5.69E+00	0.00E+00	5.69E+00
		Be-7	<1.97E+01	0.00E+00	1.97E+01
		K-40	6.97E+01	2.38E+01	2.89E+01
		H3DW	2.73E+03	1.94E+02	2.09E+02

Sample Point 58 [CONTROL - SW @ 8.5 miles]

Sample ID: 583557	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.86E+00	4.40E+00	3.27E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.5 miles]

Sample ID: 583557	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.63E+00	0.00E+00	3.63E+00
		Co-58	<3.59E+00	0.00E+00	3.59E+00
		Fe-59	<8.49E+00	0.00E+00	8.49E+00
		Co-60	<3.72E+00	0.00E+00	3.72E+00
		Zn-65	<7.25E+00	0.00E+00	7.25E+00
		Zr-95	<7.12E+00	0.00E+00	7.12E+00
		Nb-95	<4.01E+00	0.00E+00	4.01E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<3.75E+00	0.00E+00	3.75E+00
		Cs-137	<3.63E+00	0.00E+00	3.63E+00
		BaLa-140	<8.77E+00	0.00E+00	8.77E+00
		Be-7	<3.37E+01	0.00E+00	3.37E+01
		K-40	6.40E+01	4.24E+01	6.23E+01
Sample ID: 585624	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.52E+00	4.33E+00	3.24E+00
		Mn-54	<3.33E+00	0.00E+00	3.33E+00
		Co-58	<3.70E+00	0.00E+00	3.70E+00
		Fe-59	<6.14E+00	0.00E+00	6.14E+00
		Co-60	<3.96E+00	0.00E+00	3.96E+00
		Zn-65	<6.93E+00	0.00E+00	6.93E+00
		Zr-95	<7.42E+00	0.00E+00	7.42E+00
		Nb-95	<4.15E+00	0.00E+00	4.15E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.95E+00	0.00E+00	3.95E+00
		Cs-137	<3.94E+00	0.00E+00	3.94E+00
		BaLa-140	<7.08E+00	0.00E+00	7.08E+00
		Be-7	<3.17E+01	0.00E+00	3.17E+01
		K-40	2.46E+01	3.08E+01	5.04E+01
Sample ID: 586996	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.08E+00	0.00E+00	3.08E+00
		Co-58	<3.42E+00	0.00E+00	3.42E+00
		Fe-59	<6.70E+00	0.00E+00	6.70E+00
		Co-60	<2.66E+00	0.00E+00	2.66E+00
		Zn-65	<7.54E+00	0.00E+00	7.54E+00
		Zr-95	<6.08E+00	0.00E+00	6.08E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.20E+00	0.00E+00	3.20E+00
		Cs-137	<3.00E+00	0.00E+00	3.00E+00
		BaLa-140	<5.24E+00	0.00E+00	5.24E+00
		Be-7	<2.70E+01	0.00E+00	2.70E+01
		K-40	7.70E+01	3.06E+01	3.28E+01
Sample ID: 585983	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.24E+01	0.00E+00	1.93E+02
Sample ID: 588367	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<2.85E+00	0.00E+00	2.85E+00
		Co-58	<2.53E+00	0.00E+00	2.53E+00
		Fe-59	<7.80E+00	0.00E+00	7.80E+00
		Co-60	<3.82E+00	0.00E+00	3.82E+00
		Zn-65	<7.27E+00	0.00E+00	7.27E+00
		Zr-95	<5.42E+00	0.00E+00	5.42E+00
		Nb-95	<3.92E+00	0.00E+00	3.92E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.67E+00	0.00E+00	2.67E+00
		Cs-137	<3.83E+00	0.00E+00	3.83E+00
		BaLa-140	<7.93E+00	0.00E+00	7.93E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	7.84E+01	3.54E+01	4.52E+01
Sample ID: 590088	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.47E+00	4.22E+00	3.16E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.5 miles]

Sample ID: 590088	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.21E+00	0.00E+00	3.21E+00
		Co-58	<3.66E+00	0.00E+00	3.66E+00
		Fe-59	<8.25E+00	0.00E+00	8.25E+00
		Co-60	<3.20E+00	0.00E+00	3.20E+00
		Zn-65	<3.99E+00	0.00E+00	3.99E+00
		Zr-95	<4.95E+00	0.00E+00	4.95E+00
		Nb-95	<3.79E+00	0.00E+00	3.79E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.03E+00	0.00E+00	3.03E+00
		Cs-137	<2.66E+00	0.00E+00	2.66E+00
		BaLa-140	<6.05E+00	0.00E+00	6.05E+00
		Be-7	<2.68E+01	0.00E+00	2.68E+01
		K-40	9.41E+01	4.44E+01	6.15E+01
Sample ID: 591263	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.10E+00	0.00E+00	4.10E+00
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<8.30E+00	0.00E+00	8.30E+00
		Co-60	<3.48E+00	0.00E+00	3.48E+00
		Zn-65	<8.13E+00	0.00E+00	8.13E+00
		Zr-95	<8.53E+00	0.00E+00	8.53E+00
		Nb-95	<4.96E+00	0.00E+00	4.96E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<3.82E+00	0.00E+00	3.82E+00
		Cs-137	<3.05E+00	0.00E+00	3.05E+00
		BaLa-140	<1.22E+01	0.00E+00	1.22E+01
		Be-7	<3.57E+01	0.00E+00	3.57E+01
		K-40	7.38E+01	3.88E+01	5.06E+01
Sample ID: 590600	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<3.76E+01	0.00E+00	1.80E+02
Sample ID: 592253	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.44E+00	4.27E+00	3.18E+00
		Mn-54	<3.33E+00	0.00E+00	3.33E+00
		Co-58	<4.32E+00	0.00E+00	4.32E+00
		Fe-59	<8.38E+00	0.00E+00	8.38E+00
		Co-60	<3.22E+00	0.00E+00	3.22E+00
		Zn-65	<6.46E+00	0.00E+00	6.46E+00
		Zr-95	<1.04E+01	0.00E+00	1.04E+01
		Nb-95	<5.16E+00	0.00E+00	5.16E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.02E+00	0.00E+00	4.02E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<3.57E+01	0.00E+00	3.57E+01
		K-40	5.19E+01	3.46E+01	4.85E+01
Sample ID: 593629	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.64E+00	0.00E+00	3.64E+00
		Co-58	<2.26E+00	0.00E+00	2.26E+00
		Fe-59	<6.14E+00	0.00E+00	6.14E+00
		Co-60	<3.90E+00	0.00E+00	3.90E+00
		Zn-65	<7.17E+00	0.00E+00	7.17E+00
		Zr-95	<5.32E+00	0.00E+00	5.32E+00
		Nb-95	<2.90E+00	0.00E+00	2.90E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.86E+00	0.00E+00	2.86E+00
		Cs-137	<3.46E+00	0.00E+00	3.46E+00
		BaLa-140	<5.36E+00	0.00E+00	5.36E+00
		Be-7	<2.95E+01	0.00E+00	2.95E+01
		K-40	7.52E+01	3.69E+01	4.93E+01
Sample ID: 595062	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.5 miles]

Sample ID: 595062	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.70E+00	0.00E+00	2.70E+00
		Co-58	<2.79E+00	0.00E+00	2.79E+00
		Fe-59	<6.25E+00	0.00E+00	6.25E+00
		Co-60	<2.56E+00	0.00E+00	2.56E+00
		Zn-65	<6.66E+00	0.00E+00	6.66E+00
		Zr-95	<5.36E+00	0.00E+00	5.36E+00
		Nb-95	<3.15E+00	0.00E+00	3.15E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<2.85E+00	0.00E+00	2.85E+00
		Cs-137	<3.35E+00	0.00E+00	3.35E+00
		BaLa-140	<7.72E+00	0.00E+00	7.72E+00
		Be-7	<2.91E+01	0.00E+00	2.91E+01
		K-40	4.58E+01	3.03E+01	4.52E+01
Sample ID: 594958	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-2.2E+01	0.00E+00	1.95E+02
Sample ID: 597374	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.88E+00	4.26E+00	3.17E+00
		Mn-54	<3.02E+00	0.00E+00	3.02E+00
		Co-58	<2.99E+00	0.00E+00	2.99E+00
		Fe-59	<7.10E+00	0.00E+00	7.10E+00
		Co-60	<3.47E+00	0.00E+00	3.47E+00
		Zn-65	<8.15E+00	0.00E+00	8.15E+00
		Zr-95	<5.74E+00	0.00E+00	5.74E+00
		Nb-95	<3.87E+00	0.00E+00	3.87E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.59E+00	0.00E+00	2.59E+00
		Cs-137	<3.48E+00	0.00E+00	3.48E+00
		BaLa-140	<8.47E+00	0.00E+00	8.47E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	7.70E+01	3.54E+01	4.53E+01
Sample ID: 599125	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.82E+00	4.25E+00	3.18E+00
		Mn-54	<3.04E+00	0.00E+00	3.04E+00
		Co-58	<3.48E+00	0.00E+00	3.48E+00
		Fe-59	<4.93E+00	0.00E+00	4.93E+00
		Co-60	<3.00E+00	0.00E+00	3.00E+00
		Zn-65	<6.81E+00	0.00E+00	6.81E+00
		Zr-95	<6.78E+00	0.00E+00	6.78E+00
		Nb-95	<4.81E+00	0.00E+00	4.81E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.72E+00	0.00E+00	3.72E+00
		Cs-137	<3.04E+00	0.00E+00	3.04E+00
		BaLa-140	<6.97E+00	0.00E+00	6.97E+00
		Be-7	<2.70E+01	0.00E+00	2.70E+01
		K-40	1.15E+02	3.78E+01	4.12E+01
Sample ID: 601345	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.09E+00	4.43E+00	3.29E+00
		Mn-54	<3.91E+00	0.00E+00	3.91E+00
		Co-58	<4.38E+00	0.00E+00	4.38E+00
		Fe-59	<8.69E+00	0.00E+00	8.69E+00
		Co-60	<3.46E+00	0.00E+00	3.46E+00
		Zn-65	<6.97E+00	0.00E+00	6.97E+00
		Zr-95	<9.85E+00	0.00E+00	9.85E+00
		Nb-95	<5.34E+00	0.00E+00	5.34E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<4.49E+00	0.00E+00	4.49E+00
		Cs-137	<3.93E+00	0.00E+00	3.93E+00
		BaLa-140	<7.87E+00	0.00E+00	7.87E+00
		Be-7	<3.75E+01	0.00E+00	3.75E+01
		K-40	1.17E+02	4.33E+01	4.29E+01
Sample ID: 601689	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-3.2E+01	0.00E+00	2.00E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.5 miles]

Sample ID: 602777 Sample Dates: 11/27/2023 - 12/27/2023

Nuclide	Activity	2 Sigma Error	MDA
Beta	4.11E+00	4.25E+00	3.17E+00
Mn-54	<2.58E+00	0.00E+00	2.58E+00
Co-58	<1.93E+00	0.00E+00	1.93E+00
Fe-59	<5.48E+00	0.00E+00	5.48E+00
Co-60	<2.39E+00	0.00E+00	2.39E+00
Zn-65	<5.34E+00	0.00E+00	5.34E+00
Zr-95	<4.68E+00	0.00E+00	4.68E+00
Nb-95	<3.11E+00	0.00E+00	3.11E+00
I-131	<1.34E+01	0.00E+00	1.34E+01
Cs-134	<2.42E+00	0.00E+00	2.42E+00
Cs-137	<1.90E+00	0.00E+00	1.90E+00
BaLa-140	<8.44E+00	0.00E+00	8.44E+00
Be-7	<2.19E+01	0.00E+00	2.19E+01
K-40	1.32E+02	2.99E+01	2.80E+01

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 44 [INDICATOR - -- @ 0 miles]

Sample ID: 587384 Sample Dates: 5/5/2023 - 5/5/2023

FREESWIM

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.04E+01	0.00E+00	5.04E+01
Co-58	<5.80E+01	0.00E+00	5.80E+01
Fe-59	<1.03E+02	0.00E+00	1.03E+02
Co-60	<3.77E+01	0.00E+00	3.77E+01
Zn-65	<1.15E+02	0.00E+00	1.15E+02
Nb-95	<6.61E+01	0.00E+00	6.61E+01
I-131	<9.00E+01	0.00E+00	9.00E+01
Cs-134	<6.10E+01	0.00E+00	6.10E+01
Cs-137	<5.12E+01	0.00E+00	5.12E+01
Be-7	<5.01E+02	0.00E+00	5.01E+02
K-40	4.13E+03	9.84E+02	8.29E+02
Ag-110M	<3.33E+01	0.00E+00	3.33E+01
Sb-122	<2.95E+02	0.00E+00	2.95E+02
Sb-125	<1.16E+02	0.00E+00	1.16E+02

Sample ID: 587385 Sample Dates: 5/5/2023 - 5/5/2023

BOTMFEEDER

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.74E+01	0.00E+00	5.74E+01
Co-58	<4.60E+01	0.00E+00	4.60E+01
Fe-59	<1.18E+02	0.00E+00	1.18E+02
Co-60	<4.75E+01	0.00E+00	4.75E+01
Zn-65	<1.37E+02	0.00E+00	1.37E+02
Nb-95	<4.66E+01	0.00E+00	4.66E+01
I-131	<7.22E+01	0.00E+00	7.22E+01
Cs-134	<5.00E+01	0.00E+00	5.00E+01
Cs-137	<5.38E+01	0.00E+00	5.38E+01
Be-7	<4.16E+02	0.00E+00	4.16E+02
K-40	3.83E+03	8.76E+02	1.19E+02
Ag-110M	<3.34E+01	0.00E+00	3.34E+01
Sb-122	<2.52E+02	0.00E+00	2.52E+02
Sb-125	<1.12E+02	0.00E+00	1.12E+02

Sample ID: 587389 Sample Dates: 5/5/2023 - 5/5/2023

FREESWIM

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<4.56E+01	0.00E+00	4.56E+01
Co-58	<4.69E+01	0.00E+00	4.69E+01
Fe-59	<7.75E+01	0.00E+00	7.75E+01
Co-60	<3.57E+01	0.00E+00	3.57E+01
Zn-65	<9.63E+01	0.00E+00	9.63E+01
Nb-95	<4.76E+01	0.00E+00	4.76E+01
I-131	<5.91E+01	0.00E+00	5.91E+01
Cs-134	<4.02E+01	0.00E+00	4.02E+01
Cs-137	<1.97E+01	0.00E+00	1.97E+01
Be-7	<3.29E+02	0.00E+00	3.29E+02
K-40	3.76E+03	8.24E+02	1.04E+02
Ag-110M	<3.63E+01	0.00E+00	3.63E+01
Sb-122	<2.20E+02	0.00E+00	2.20E+02
Sb-125	<8.63E+01	0.00E+00	8.63E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 44 [INDICATOR - -- @ 0 miles]

Sample ID:	597239	Sample Dates:	10/9/2023 - 10/9/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.39E+01	0.00E+00	7.39E+01
					Co-58	<3.29E+01	0.00E+00	3.29E+01
					Fe-59	<1.42E+02	0.00E+00	1.42E+02
					Co-60	<1.04E+02	0.00E+00	1.04E+02
					Zn-65	<1.32E+02	0.00E+00	1.32E+02
					Nb-95	<6.21E+01	0.00E+00	6.21E+01
					I-131	<7.44E+01	0.00E+00	7.44E+01
					Cs-134	<9.38E+01	0.00E+00	9.38E+01
					Cs-137	<6.14E+01	0.00E+00	6.14E+01
					Be-7	<6.91E+02	0.00E+00	6.91E+02
					K-40	4.97E+03	1.18E+03	1.68E+02
					Ag-110M	<7.33E+01	0.00E+00	7.33E+01
					Sb-122	<1.65E+02	0.00E+00	1.65E+02
					Sb-125	<1.68E+02	0.00E+00	1.68E+02

Sample ID:	597240	Sample Dates:	10/9/2023 - 10/9/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.66E+01	0.00E+00	6.66E+01
					Co-58	<7.69E+01	0.00E+00	7.69E+01
					Fe-59	<1.24E+02	0.00E+00	1.24E+02
					Co-60	<1.07E+02	0.00E+00	1.07E+02
					Zn-65	<1.52E+02	0.00E+00	1.52E+02
					Nb-95	<6.62E+01	0.00E+00	6.62E+01
					I-131	<1.08E+02	0.00E+00	1.08E+02
					Cs-134	<1.04E+02	0.00E+00	1.04E+02
					Cs-137	<8.32E+01	0.00E+00	8.32E+01
					Be-7	<5.58E+02	0.00E+00	5.58E+02
					K-40	3.16E+03	1.13E+03	1.12E+03
					Ag-110M	<7.08E+01	0.00E+00	7.08E+01
					Sb-122	<3.04E+02	0.00E+00	3.04E+02
					Sb-125	<1.67E+02	0.00E+00	1.67E+02

Sample ID:	597253	Sample Dates:	10/9/2023 - 10/9/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.21E+01	0.00E+00	7.21E+01
					Co-58	<6.92E+01	0.00E+00	6.92E+01
					Fe-59	<1.18E+02	0.00E+00	1.18E+02
					Co-60	<1.15E+02	0.00E+00	1.15E+02
					Zn-65	<1.80E+02	0.00E+00	1.80E+02
					Nb-95	<8.64E+01	0.00E+00	8.64E+01
					I-131	<9.38E+01	0.00E+00	9.38E+01
					Cs-134	<8.83E+01	0.00E+00	8.83E+01
					Cs-137	<8.28E+01	0.00E+00	8.28E+01
					Be-7	<5.56E+02	0.00E+00	5.56E+02
					K-40	6.22E+03	1.40E+03	8.85E+02
					Ag-110M	<5.70E+01	0.00E+00	5.70E+01
					Sb-122	<2.17E+02	0.00E+00	2.17E+02
					Sb-125	<2.11E+02	0.00E+00	2.11E+02

Sample Point 45 [CONTROL - -- @ 0 miles]

Sample ID:	587386	Sample Dates:	5/5/2023 - 5/5/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.33E+01	0.00E+00	5.33E+01
					Co-58	<4.80E+01	0.00E+00	4.80E+01
					Fe-59	<1.10E+02	0.00E+00	1.10E+02
					Co-60	<5.39E+01	0.00E+00	5.39E+01
					Zn-65	<1.10E+02	0.00E+00	1.10E+02
					Nb-95	<5.78E+01	0.00E+00	5.78E+01
					I-131	<8.46E+01	0.00E+00	8.46E+01
					Cs-134	<5.22E+01	0.00E+00	5.22E+01
					Cs-137	<4.05E+01	0.00E+00	4.05E+01
					Be-7	<3.77E+02	0.00E+00	3.77E+02
					K-40	4.02E+03	9.58E+02	7.53E+02
					Ag-110M	<4.31E+01	0.00E+00	4.31E+01
					Sb-122	<2.38E+02	0.00E+00	2.38E+02
					Sb-125	<1.22E+02	0.00E+00	1.22E+02

Sample ID:	587387	Sample Dates:	5/5/2023 - 5/5/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.88E+01	0.00E+00	4.88E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 45 [CONTROL - -- @ 0 miles]

Sample ID: 587387	Sample Dates: 5/5/2023 - 5/5/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Co-58	<4.82E+01	0.00E+00	4.82E+01
			Fe-59	<8.98E+01	0.00E+00	8.98E+01
			Co-60	<4.97E+01	0.00E+00	4.97E+01
			Zn-65	<8.83E+01	0.00E+00	8.83E+01
			Nb-95	<4.21E+01	0.00E+00	4.21E+01
			I-131	<6.83E+01	0.00E+00	6.83E+01
			Cs-134	<5.86E+01	0.00E+00	5.86E+01
			Cs-137	<5.88E+01	0.00E+00	5.88E+01
			Be-7	<3.19E+02	0.00E+00	3.19E+02
			K-40	4.01E+03	8.46E+02	1.03E+02
			Ag-110M	<4.28E+01	0.00E+00	4.28E+01
			Sb-122	<2.08E+02	0.00E+00	2.08E+02
			Sb-125	<1.19E+02	0.00E+00	1.19E+02
Sample ID: 587390	Sample Dates: 5/5/2023 - 5/5/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.37E+01	0.00E+00	5.37E+01
			Co-58	<5.52E+01	0.00E+00	5.52E+01
			Fe-59	<1.02E+02	0.00E+00	1.02E+02
			Co-60	<5.16E+01	0.00E+00	5.16E+01
			Zn-65	<1.28E+02	0.00E+00	1.28E+02
			Nb-95	<5.60E+01	0.00E+00	5.60E+01
			I-131	<7.50E+01	0.00E+00	7.50E+01
			Cs-134	<3.71E+01	0.00E+00	3.71E+01
			Cs-137	<5.45E+01	0.00E+00	5.45E+01
			Be-7	<3.13E+02	0.00E+00	3.13E+02
			K-40	3.66E+03	9.33E+02	7.69E+02
			Ag-110M	<5.27E+01	0.00E+00	5.27E+01
			Sb-122	<2.60E+02	0.00E+00	2.60E+02
			Sb-125	<1.45E+02	0.00E+00	1.45E+02
Sample ID: 597241	Sample Dates: 10/10/2023 - 10/10/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<9.49E+01	0.00E+00	9.49E+01
			Co-58	<8.02E+01	0.00E+00	8.02E+01
			Fe-59	<1.18E+02	0.00E+00	1.18E+02
			Co-60	<7.45E+01	0.00E+00	7.45E+01
			Zn-65	<1.70E+02	0.00E+00	1.70E+02
			Nb-95	<9.67E+01	0.00E+00	9.67E+01
			I-131	<8.58E+01	0.00E+00	8.58E+01
			Cs-134	<9.62E+01	0.00E+00	9.62E+01
			Cs-137	<8.40E+01	0.00E+00	8.40E+01
			Be-7	<5.21E+02	0.00E+00	5.21E+02
			K-40	3.78E+03	1.32E+03	1.32E+03
			Ag-110M	<7.48E+01	0.00E+00	7.48E+01
			Sb-122	<1.55E+02	0.00E+00	1.55E+02
			Sb-125	<1.76E+02	0.00E+00	1.76E+02
Sample ID: 597242	Sample Dates: 10/10/2023 - 10/10/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.47E+01	0.00E+00	7.47E+01
			Co-58	<1.07E+02	0.00E+00	1.07E+02
			Fe-59	<1.79E+02	0.00E+00	1.79E+02
			Co-60	<9.58E+01	0.00E+00	9.58E+01
			Zn-65	<1.52E+02	0.00E+00	1.52E+02
			Nb-95	<7.84E+01	0.00E+00	7.84E+01
			I-131	<9.54E+01	0.00E+00	9.54E+01
			Cs-134	<9.05E+01	0.00E+00	9.05E+01
			Cs-137	<8.92E+01	0.00E+00	8.92E+01
			Be-7	<5.25E+02	0.00E+00	5.25E+02
			K-40	3.17E+03	1.42E+03	1.82E+03
			Ag-110M	<7.95E+01	0.00E+00	7.95E+01
			Sb-122	<1.81E+02	0.00E+00	1.81E+02
			Sb-125	<1.42E+02	0.00E+00	1.42E+02
Sample ID: 597254	Sample Dates: 10/10/2023 - 10/10/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<8.81E+01	0.00E+00	8.81E+01
			Co-58	<9.20E+01	0.00E+00	9.20E+01
			Fe-59	<1.67E+02	0.00E+00	1.67E+02
			Co-60	<8.02E+01	0.00E+00	8.02E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 45 [CONTROL - -- @ 0 miles]

Sample ID:	597254	Sample Dates:	10/10/2023 - 10/10/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<1.58E+02	0.00E+00	1.58E+02
					Nb-95	<7.74E+01	0.00E+00	7.74E+01
					I-131	<9.05E+01	0.00E+00	9.05E+01
					Cs-134	<8.93E+01	0.00E+00	8.93E+01
					Cs-137	<6.23E+01	0.00E+00	6.23E+01
					Be-7	<5.14E+02	0.00E+00	5.14E+02
					K-40	4.43E+03	1.38E+03	1.31E+03
					Ag-110M	<8.06E+01	0.00E+00	8.06E+01
					Sb-122	<1.36E+02	0.00E+00	1.36E+02
					Sb-125	<1.72E+02	0.00E+00	1.72E+02

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 57 [INDICATOR - SSW @ 0.4 miles]

Sample ID:	584335	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.41E+00	0.00E+00	7.41E+00
				Co-58	<8.99E+00	0.00E+00	8.99E+00
				Fe-59	<1.43E+01	0.00E+00	1.43E+01
				Co-60	<6.78E+00	0.00E+00	6.78E+00
				Zn-65	<1.46E+01	0.00E+00	1.46E+01
				Zr-95	<5.73E+00	0.00E+00	5.73E+00
				Nb-95	<8.57E+00	0.00E+00	8.57E+00
				I-131	<8.96E+00	0.00E+00	8.97E+00
				Cs-134	<7.04E+00	0.00E+00	7.04E+00
				Cs-137	<5.69E+00	0.00E+00	5.69E+00
				BaLa-140	<1.16E+01	0.00E+00	1.16E+01
				Be-7	<5.03E+01	0.00E+00	5.03E+01
				K-40	<1.67E+02	0.00E+00	1.67E+02
				H3GW	<7.38E+01	0.00E+00	1.95E+02

Sample ID:	589508	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.61E+00	0.00E+00	7.61E+00
				Co-58	<7.31E+00	0.00E+00	7.31E+00
				Fe-59	<1.35E+01	0.00E+00	1.35E+01
				Co-60	<7.37E+00	0.00E+00	7.37E+00
				Zn-65	<1.63E+01	0.00E+00	1.63E+01
				Zr-95	<1.22E+01	0.00E+00	1.22E+01
				Nb-95	<7.53E+00	0.00E+00	7.53E+00
				I-131	<6.46E+00	0.00E+00	6.46E+00
				Cs-134	<6.48E+00	0.00E+00	6.48E+00
				Cs-137	<6.87E+00	0.00E+00	6.87E+00
				BaLa-140	<9.79E+00	0.00E+00	9.79E+00
				Be-7	<4.68E+01	0.00E+00	4.68E+01
				K-40	1.09E+02	7.66E+01	1.15E+02
				H3GW	<1.40E+01	0.00E+00	1.87E+02

Sample ID:	593256	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.79E+00	0.00E+00	5.79E+00
				Co-58	<5.85E+00	0.00E+00	5.85E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<4.52E+00	0.00E+00	4.52E+00
				Zn-65	<1.49E+01	0.00E+00	1.49E+01
				Zr-95	<1.08E+01	0.00E+00	1.08E+01
				Nb-95	<5.98E+00	0.00E+00	5.98E+00
				I-131	<7.38E+00	0.00E+00	7.38E+00
				Cs-134	<6.28E+00	0.00E+00	6.28E+00
				Cs-137	<5.46E+00	0.00E+00	5.46E+00
				BaLa-140	<8.64E+00	0.00E+00	8.64E+00
				Be-7	<4.36E+01	0.00E+00	4.36E+01
				K-40	1.58E+02	8.17E+01	1.14E+02
				H3GW	<4.6E+01	0.00E+00	1.92E+02

Sample ID:	599302	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.76E+00	0.00E+00	5.76E+00
				Co-58	<5.91E+00	0.00E+00	5.91E+00
				Fe-59	<1.25E+01	0.00E+00	1.25E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 57 [INDICATOR - SSW @ 0.4 miles]

Sample ID:	599302	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<5.37E+00	0.00E+00	5.37E+00
				Zn-65	<1.53E+01	0.00E+00	1.53E+01
				Zr-95	<7.86E+00	0.00E+00	7.86E+00
				Nb-95	<5.90E+00	0.00E+00	5.90E+00
				I-131	<7.70E+00	0.00E+00	7.70E+00
				Cs-134	<7.57E+00	0.00E+00	7.57E+00
				Cs-137	<5.97E+00	0.00E+00	5.97E+00
				BaLa-140	<8.09E+00	0.00E+00	8.09E+00
				Be-7	<4.34E+01	0.00E+00	4.34E+01
				K-40	1.07E+02	8.34E+01	1.29E+02
				H3GW	<2.22E+01	0.00E+00	1.84E+02

Sample Point 59 [INDICATOR - NNE @ 0.5 miles]

Sample ID:	584336	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.72E+00	0.00E+00	8.72E+00
				Co-58	<6.31E+00	0.00E+00	6.31E+00
				Fe-59	<1.42E+01	0.00E+00	1.42E+01
				Co-60	<6.42E+00	0.00E+00	6.42E+00
				Zn-65	<1.91E+01	0.00E+00	1.91E+01
				Zr-95	<1.22E+01	0.00E+00	1.22E+01
				Nb-95	<7.42E+00	0.00E+00	7.42E+00
				I-131	<8.30E+00	0.00E+00	8.30E+00
				Cs-134	<6.67E+00	0.00E+00	6.67E+00
				Cs-137	<4.93E+00	0.00E+00	4.93E+00
				BaLa-140	<8.59E+00	0.00E+00	8.59E+00
				Be-7	<5.56E+01	0.00E+00	5.56E+01
				K-40	<1.71E+02	0.00E+00	1.71E+02
				H3GW	<-3.7E+01	0.00E+00	1.95E+02

Sample ID:	589509	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.21E+00	0.00E+00	5.21E+00
				Co-58	<4.81E+00	0.00E+00	4.81E+00
				Fe-59	<8.61E+00	0.00E+00	8.61E+00
				Co-60	<6.16E+00	0.00E+00	6.16E+00
				Zn-65	<1.14E+01	0.00E+00	1.14E+01
				Zr-95	<7.54E+00	0.00E+00	7.54E+00
				Nb-95	<6.22E+00	0.00E+00	6.22E+00
				I-131	<6.63E+00	0.00E+00	6.63E+00
				Cs-134	<6.87E+00	0.00E+00	6.87E+00
				Cs-137	<5.28E+00	0.00E+00	5.28E+00
				BaLa-140	<8.15E+00	0.00E+00	8.15E+00
				Be-7	<4.87E+01	0.00E+00	4.87E+01
				K-40	1.43E+02	6.19E+01	7.17E+01
				H3GW	<-4.4E+01	0.00E+00	1.87E+02

Sample ID:	593257	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.87E+00	0.00E+00	5.87E+00
				Co-58	<5.32E+00	0.00E+00	5.32E+00
				Fe-59	<7.11E+00	0.00E+00	7.11E+00
				Co-60	<7.17E+00	0.00E+00	7.17E+00
				Zn-65	<1.21E+01	0.00E+00	1.21E+01
				Zr-95	<1.06E+01	0.00E+00	1.06E+01
				Nb-95	<5.79E+00	0.00E+00	5.79E+00
				I-131	<7.15E+00	0.00E+00	7.15E+00
				Cs-134	<4.62E+00	0.00E+00	4.62E+00
				Cs-137	<5.17E+00	0.00E+00	5.17E+00
				BaLa-140	<9.10E+00	0.00E+00	9.10E+00
				Be-7	<3.92E+01	0.00E+00	3.92E+01
				K-40	1.30E+02	6.83E+01	9.21E+01
				H3GW	<-1.3E+02	0.00E+00	1.92E+02

Sample ID:	599303	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.07E+00	0.00E+00	6.07E+00
				Co-58	<5.05E+00	0.00E+00	5.05E+00
				Fe-59	<1.19E+01	0.00E+00	1.19E+01
				Co-60	<6.82E+00	0.00E+00	6.82E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 59 [INDICATOR - NNE @ 0.5 miles]

Sample ID:	599303	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Zn-65	<1.13E+01	0.00E+00	1.13E+01
				Zr-95	<8.78E+00	0.00E+00	8.78E+00
				Nb-95	<6.50E+00	0.00E+00	6.50E+00
				I-131	<6.57E+00	0.00E+00	6.57E+00
				Cs-134	<6.61E+00	0.00E+00	6.61E+00
				Cs-137	<6.78E+00	0.00E+00	6.78E+00
				BaLa-140	<7.15E+00	0.00E+00	7.15E+00
				Be-7	<4.16E+01	0.00E+00	4.16E+01
				K-40	1.35E+02	6.77E+01	8.81E+01
				H3GW	<7.46E+00	0.00E+00	1.85E+02

Sample Point 60 [INDICATOR - ESE @ 0.5 miles]

Sample ID:	584337	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.13E+00	0.00E+00	8.13E+00
				Co-58	<8.18E+00	0.00E+00	8.18E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<9.73E+00	0.00E+00	9.73E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<1.38E+01	0.00E+00	1.38E+01
				Nb-95	<1.01E+01	0.00E+00	1.01E+01
				I-131	<8.56E+00	0.00E+00	8.56E+00
				Cs-134	<8.29E+00	0.00E+00	8.29E+00
				Cs-137	<7.70E+00	0.00E+00	7.70E+00
				BaLa-140	<1.11E+01	0.00E+00	1.11E+01
				Be-7	<6.35E+01	0.00E+00	6.35E+01
				K-40	1.69E+02	7.42E+01	7.98E+01
				H3GW	<-4.4E+01	0.00E+00	1.95E+02

Sample ID:	589510	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.45E+00	0.00E+00	4.45E+00
				Co-58	<6.84E+00	0.00E+00	6.84E+00
				Fe-59	<1.17E+01	0.00E+00	1.17E+01
				Co-60	<5.52E+00	0.00E+00	5.52E+00
				Zn-65	<1.40E+01	0.00E+00	1.40E+01
				Zr-95	<1.24E+01	0.00E+00	1.24E+01
				Nb-95	<6.39E+00	0.00E+00	6.39E+00
				I-131	<7.73E+00	0.00E+00	7.73E+00
				Cs-134	<7.64E+00	0.00E+00	7.64E+00
				Cs-137	<7.50E+00	0.00E+00	7.50E+00
				BaLa-140	<5.45E+00	0.00E+00	5.45E+00
				Be-7	<4.69E+01	0.00E+00	4.69E+01
				K-40	2.14E+02	7.60E+01	8.26E+01
				H3GW	<-1.1E+02	0.00E+00	1.87E+02

Sample ID:	593258	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.69E+00	0.00E+00	7.69E+00
				Co-58	<5.80E+00	0.00E+00	5.80E+00
				Fe-59	<1.27E+01	0.00E+00	1.27E+01
				Co-60	<6.69E+00	0.00E+00	6.69E+00
				Zn-65	<1.58E+01	0.00E+00	1.58E+01
				Zr-95	<1.10E+01	0.00E+00	1.10E+01
				Nb-95	<6.89E+00	0.00E+00	6.89E+00
				I-131	<7.76E+00	0.00E+00	7.76E+00
				Cs-134	<6.48E+00	0.00E+00	6.48E+00
				Cs-137	<6.94E+00	0.00E+00	6.94E+00
				BaLa-140	<9.40E+00	0.00E+00	9.40E+00
				Be-7	<5.87E+01	0.00E+00	5.87E+01
				K-40	<1.24E+02	0.00E+00	1.24E+02
				H3GW	<-1.2E+02	0.00E+00	1.93E+02

Sample ID:	599304	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.28E+00	0.00E+00	7.28E+00
				Co-58	<4.83E+00	0.00E+00	4.83E+00
				Fe-59	<1.22E+01	0.00E+00	1.22E+01
				Co-60	<5.80E+00	0.00E+00	5.80E+00
				Zn-65	<1.41E+01	0.00E+00	1.41E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 60 [INDICATOR - ESE @ 0.5 miles]

Sample ID:	599304	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Zr-95	<8.40E+00	0.00E+00	8.40E+00
				Nb-95	<6.32E+00	0.00E+00	6.32E+00
				I-131	<6.48E+00	0.00E+00	6.48E+00
				Cs-134	<7.70E+00	0.00E+00	7.70E+00
				Cs-137	<7.41E+00	0.00E+00	7.41E+00
				BaLa-140	<5.81E+00	0.00E+00	5.81E+00
				Be-7	<5.09E+01	0.00E+00	5.09E+01
				K-40	1.61E+02	6.53E+01	7.39E+01
				H3GW	<-6.9E+01	0.00E+00	1.83E+02

Sample Point 68 [INDICATOR - W @ 0.2 miles]

Sample ID:	584338	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.24E+00	0.00E+00	7.24E+00
				Co-58	<6.63E+00	0.00E+00	6.63E+00
				Fe-59	<1.43E+01	0.00E+00	1.43E+01
				Co-60	<5.51E+00	0.00E+00	5.51E+00
				Zn-65	<1.57E+01	0.00E+00	1.57E+01
				Zr-95	<1.15E+01	0.00E+00	1.15E+01
				Nb-95	<6.84E+00	0.00E+00	6.84E+00
				I-131	<8.85E+00	0.00E+00	8.85E+00
				Cs-134	<9.67E+00	0.00E+00	9.67E+00
				Cs-137	<7.36E+00	0.00E+00	7.36E+00
				BaLa-140	<2.25E+00	0.00E+00	2.25E+00
				Be-7	<6.23E+01	0.00E+00	6.23E+01
				K-40	7.60E+01	6.55E+01	9.77E+01
				H3GW	<1.72E+01	0.00E+00	1.95E+02

Sample ID:	589511	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.48E+00	0.00E+00	6.48E+00
				Co-58	<5.56E+00	0.00E+00	5.56E+00
				Fe-59	<1.16E+01	0.00E+00	1.16E+01
				Co-60	<5.04E+00	0.00E+00	5.04E+00
				Zn-65	<9.69E+00	0.00E+00	9.69E+00
				Zr-95	<6.73E+00	0.00E+00	6.73E+00
				Nb-95	<6.90E+00	0.00E+00	6.90E+00
				I-131	<6.44E+00	0.00E+00	6.44E+00
				Cs-134	<4.70E+00	0.00E+00	4.70E+00
				Cs-137	<6.01E+00	0.00E+00	6.01E+00
				BaLa-140	<1.51E+00	0.00E+00	1.51E+00
				Be-7	<4.56E+01	0.00E+00	4.56E+01
				K-40	2.23E+02	7.53E+01	7.74E+01
				H3GW	<-1.6E+01	0.00E+00	1.87E+02

Sample ID:	593259	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.91E+00	0.00E+00	5.91E+00
				Co-58	<5.79E+00	0.00E+00	5.79E+00
				Fe-59	<1.04E+01	0.00E+00	1.04E+01
				Co-60	<4.34E+00	0.00E+00	4.34E+00
				Zn-65	<1.29E+01	0.00E+00	1.29E+01
				Zr-95	<9.43E+00	0.00E+00	9.43E+00
				Nb-95	<5.73E+00	0.00E+00	5.73E+00
				I-131	<7.09E+00	0.00E+00	7.09E+00
				Cs-134	<7.68E+00	0.00E+00	7.68E+00
				Cs-137	<5.57E+00	0.00E+00	5.57E+00
				BaLa-140	<8.79E+00	0.00E+00	8.79E+00
				Be-7	<4.88E+01	0.00E+00	4.88E+01
				K-40	1.58E+02	6.48E+01	7.46E+01
				H3GW	<-1.4E+02	0.00E+00	1.94E+02

Sample ID:	599305	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.31E+00	0.00E+00	6.31E+00
				Co-58	<5.67E+00	0.00E+00	5.67E+00
				Fe-59	<1.27E+01	0.00E+00	1.27E+01
				Co-60	<6.64E+00	0.00E+00	6.64E+00
				Zn-65	<1.10E+01	0.00E+00	1.10E+01
				Zr-95	<1.22E+01	0.00E+00	1.22E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 68 [INDICATOR - W @ 0.2 miles]

Sample ID:	599305	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<7.14E+00	0.00E+00	7.14E+00
				I-131	<6.00E+00	0.00E+00	6.00E+00
				Cs-134	<7.72E+00	0.00E+00	7.72E+00
				Cs-137	<7.36E+00	0.00E+00	7.36E+00
				BaLa-140	<4.28E+00	0.00E+00	4.28E+00
				Be-7	<4.22E+01	0.00E+00	4.22E+01
				K-40	1.42E+02	8.59E+01	1.25E+02
				H3GW	<3.47E+01	0.00E+00	1.85E+02

Sample Point 69 [INDICATOR - NNE @ 0.2 miles]

Sample ID:	584339	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.34E+00	0.00E+00	7.34E+00
				Co-58	<6.49E+00	0.00E+00	6.49E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<5.95E+00	0.00E+00	5.95E+00
				Zn-65	<1.28E+01	0.00E+00	1.28E+01
				Zr-95	<1.36E+01	0.00E+00	1.36E+01
				Nb-95	<6.01E+00	0.00E+00	6.01E+00
				I-131	<7.02E+00	0.00E+00	7.02E+00
				Cs-134	<6.18E+00	0.00E+00	6.18E+00
				Cs-137	<7.18E+00	0.00E+00	7.18E+00
				BaLa-140	<5.42E+00	0.00E+00	5.42E+00
				Be-7	<4.86E+01	0.00E+00	4.86E+01
				K-40	1.31E+02	7.90E+01	1.09E+02
				H3GW	<-2.9E+01	0.00E+00	1.94E+02

Sample ID:	589512	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.74E+00	0.00E+00	5.74E+00
				Co-58	<5.56E+00	0.00E+00	5.56E+00
				Fe-59	<1.12E+01	0.00E+00	1.12E+01
				Co-60	<6.23E+00	0.00E+00	6.23E+00
				Zn-65	<9.74E+00	0.00E+00	9.74E+00
				Zr-95	<1.33E+01	0.00E+00	1.33E+01
				Nb-95	<7.35E+00	0.00E+00	7.35E+00
				I-131	<5.23E+00	0.00E+00	5.23E+00
				Cs-134	<6.83E+00	0.00E+00	6.83E+00
				Cs-137	<5.63E+00	0.00E+00	5.63E+00
				BaLa-140	<7.80E+00	0.00E+00	7.80E+00
				Be-7	<5.17E+01	0.00E+00	5.17E+01
				K-40	1.65E+02	8.04E+01	1.11E+02
				H3GW	<-8.2E+01	0.00E+00	1.88E+02

Sample ID:	593260	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.49E+00	0.00E+00	6.49E+00
				Co-58	<5.44E+00	0.00E+00	5.44E+00
				Fe-59	<1.41E+01	0.00E+00	1.41E+01
				Co-60	<6.69E+00	0.00E+00	6.69E+00
				Zn-65	<1.40E+01	0.00E+00	1.40E+01
				Zr-95	<1.02E+01	0.00E+00	1.02E+01
				Nb-95	<5.58E+00	0.00E+00	5.58E+00
				I-131	<7.05E+00	0.00E+00	7.05E+00
				Cs-134	<6.26E+00	0.00E+00	6.26E+00
				Cs-137	<5.63E+00	0.00E+00	5.63E+00
				BaLa-140	<9.19E+00	0.00E+00	9.19E+00
				Be-7	<4.54E+01	0.00E+00	4.54E+01
				K-40	1.41E+02	6.04E+01	6.74E+01
				H3GW	<-5.5E+01	0.00E+00	1.93E+02

Sample ID:	599306	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.48E+00	0.00E+00	6.48E+00
				Co-58	<7.24E+00	0.00E+00	7.24E+00
				Fe-59	<1.15E+01	0.00E+00	1.15E+01
				Co-60	<7.61E+00	0.00E+00	7.61E+00
				Zn-65	<1.44E+01	0.00E+00	1.44E+01
				Zr-95	<9.30E+00	0.00E+00	9.30E+00
				Nb-95	<7.31E+00	0.00E+00	7.31E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 69 [INDICATOR - NNE @ 0.2 miles]

Sample ID:	599306	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<6.84E+00	0.00E+00	6.84E+00
				Cs-134	<8.01E+00	0.00E+00	8.01E+00
				Cs-137	<5.84E+00	0.00E+00	5.84E+00
				BaLa-140	<7.21E+00	0.00E+00	7.21E+00
				Be-7	<4.94E+01	0.00E+00	4.94E+01
				K-40	2.37E+02	8.74E+01	1.06E+02
				H3GW	<-2.5E+01	0.00E+00	1.83E+02

Sample Point 70 [INDICATOR - E @ 0.4 miles]

Sample ID:	584340	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.45E+00	0.00E+00	7.45E+00
				Co-58	<6.51E+00	0.00E+00	6.51E+00
				Fe-59	<1.30E+01	0.00E+00	1.30E+01
				Co-60	<9.67E+00	0.00E+00	9.67E+00
				Zn-65	<1.10E+01	0.00E+00	1.10E+01
				Zr-95	<1.24E+01	0.00E+00	1.24E+01
				Nb-95	<5.64E+00	0.00E+00	5.64E+00
				I-131	<7.65E+00	0.00E+00	7.65E+00
				Cs-134	<8.05E+00	0.00E+00	8.05E+00
				Cs-137	<5.67E+00	0.00E+00	5.67E+00
				BaLa-140	<9.33E+00	0.00E+00	9.33E+00
				Be-7	<5.47E+01	0.00E+00	5.47E+01
				K-40	1.28E+02	6.48E+01	7.12E+01
				H3GW	<5.19E+01	0.00E+00	1.96E+02

Sample ID:	589513	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.29E+00	0.00E+00	6.29E+00
				Co-58	<5.90E+00	0.00E+00	5.90E+00
				Fe-59	<1.24E+01	0.00E+00	1.24E+01
				Co-60	<6.53E+00	0.00E+00	6.53E+00
				Zn-65	<8.20E+00	0.00E+00	8.20E+00
				Zr-95	<9.55E+00	0.00E+00	9.55E+00
				Nb-95	<5.74E+00	0.00E+00	5.74E+00
				I-131	<5.82E+00	0.00E+00	5.82E+00
				Cs-134	<6.65E+00	0.00E+00	6.65E+00
				Cs-137	<3.91E+00	0.00E+00	3.91E+00
				BaLa-140	<6.20E+00	0.00E+00	6.20E+00
				Be-7	<3.57E+01	0.00E+00	3.57E+01
				K-40	3.15E+01	3.51E+01	5.46E+01
				H3GW	<-1.1E+02	0.00E+00	1.87E+02

Sample ID:	593261	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.38E+00	0.00E+00	5.38E+00
				Co-58	<6.37E+00	0.00E+00	6.37E+00
				Fe-59	<1.13E+01	0.00E+00	1.13E+01
				Co-60	<6.31E+00	0.00E+00	6.31E+00
				Zn-65	<1.18E+01	0.00E+00	1.18E+01
				Zr-95	<1.25E+01	0.00E+00	1.25E+01
				Nb-95	<5.91E+00	0.00E+00	5.91E+00
				I-131	<7.94E+00	0.00E+00	7.94E+00
				Cs-134	<6.49E+00	0.00E+00	6.49E+00
				Cs-137	<6.18E+00	0.00E+00	6.18E+00
				BaLa-140	<7.77E+00	0.00E+00	7.77E+00
				Be-7	<5.75E+01	0.00E+00	5.75E+01
				K-40	2.12E+02	6.75E+01	5.53E+01
				H3GW	<-8.6E+01	0.00E+00	1.93E+02

Sample ID:	599307	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.19E+00	0.00E+00	6.19E+00
				Co-58	<4.82E+00	0.00E+00	4.82E+00
				Fe-59	<1.03E+01	0.00E+00	1.03E+01
				Co-60	<4.99E+00	0.00E+00	4.99E+00
				Zn-65	<1.03E+01	0.00E+00	1.03E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<6.30E+00	0.00E+00	6.30E+00
				I-131	<6.73E+00	0.00E+00	6.73E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 70 [INDICATOR - E @ 0.4 miles]

Sample ID:	599307	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<7.15E+00	0.00E+00	7.15E+00
				Cs-137	<4.73E+00	0.00E+00	4.73E+00
				BaLa-140	<9.06E+00	0.00E+00	9.06E+00
				Be-7	<5.30E+01	0.00E+00	5.30E+01
				K-40	1.98E+02	7.24E+01	7.91E+01
				H3GW	<-5.4E+01	0.00E+00	1.83E+02

Sample Point 71 [INDICATOR - SE @ 0.3 miles]

Sample ID:	584341	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.91E+00	0.00E+00	6.91E+00
				Co-58	<7.46E+00	0.00E+00	7.46E+00
				Fe-59	<1.41E+01	0.00E+00	1.41E+01
				Co-60	<5.19E+00	0.00E+00	5.19E+00
				Zn-65	<1.64E+01	0.00E+00	1.64E+01
				Zr-95	<1.25E+01	0.00E+00	1.25E+01
				Nb-95	<5.44E+00	0.00E+00	5.44E+00
				I-131	<7.79E+00	0.00E+00	7.79E+00
				Cs-134	<6.70E+00	0.00E+00	6.70E+00
				Cs-137	<6.15E+00	0.00E+00	6.15E+00
				BaLa-140	<8.97E+00	0.00E+00	8.97E+00
				Be-7	<4.89E+01	0.00E+00	4.89E+01
				K-40	<1.26E+02	0.00E+00	1.26E+02
				H3GW	<9.88E+00	0.00E+00	1.96E+02

Sample ID:	589514	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.48E+00	0.00E+00	5.48E+00
				Co-58	<5.52E+00	0.00E+00	5.52E+00
				Fe-59	<1.07E+01	0.00E+00	1.07E+01
				Co-60	<4.11E+00	0.00E+00	4.11E+00
				Zn-65	<1.10E+01	0.00E+00	1.10E+01
				Zr-95	<1.17E+01	0.00E+00	1.17E+01
				Nb-95	<6.99E+00	0.00E+00	6.99E+00
				I-131	<7.88E+00	0.00E+00	7.88E+00
				Cs-134	<7.73E+00	0.00E+00	7.73E+00
				Cs-137	<5.11E+00	0.00E+00	5.11E+00
				BaLa-140	<8.19E+00	0.00E+00	8.19E+00
				Be-7	<4.94E+01	0.00E+00	4.94E+01
				K-40	1.64E+02	7.21E+01	8.81E+01
				H3GW	<-1.1E+02	0.00E+00	1.87E+02

Sample ID:	593262	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.96E+00	0.00E+00	5.96E+00
				Co-58	<5.85E+00	0.00E+00	5.85E+00
				Fe-59	<1.20E+01	0.00E+00	1.20E+01
				Co-60	<5.78E+00	0.00E+00	5.78E+00
				Zn-65	<1.20E+01	0.00E+00	1.20E+01
				Zr-95	<1.05E+01	0.00E+00	1.05E+01
				Nb-95	<5.22E+00	0.00E+00	5.22E+00
				I-131	<7.37E+00	0.00E+00	7.37E+00
				Cs-134	<6.28E+00	0.00E+00	6.28E+00
				Cs-137	<5.28E+00	0.00E+00	5.28E+00
				BaLa-140	<7.19E+00	0.00E+00	7.19E+00
				Be-7	<4.24E+01	0.00E+00	4.24E+01
				K-40	1.92E+02	6.56E+01	6.08E+01
				H3GW	<-8.8E+01	0.00E+00	1.94E+02

Sample ID:	599308	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.31E+00	0.00E+00	6.31E+00
				Co-58	<5.99E+00	0.00E+00	5.99E+00
				Fe-59	<6.27E+00	0.00E+00	6.27E+00
				Co-60	<5.06E+00	0.00E+00	5.06E+00
				Zn-65	<1.11E+01	0.00E+00	1.11E+01
				Zr-95	<1.13E+01	0.00E+00	1.13E+01
				Nb-95	<6.88E+00	0.00E+00	6.88E+00
				I-131	<6.80E+00	0.00E+00	6.80E+00
				Cs-134	<7.28E+00	0.00E+00	7.28E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 71 [INDICATOR - SE @ 0.3 miles]

Sample ID:	599308	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<5.63E+00	0.00E+00	5.63E+00
				BaLa-140	<8.35E+00	0.00E+00	8.35E+00
				Be-7	<4.60E+01	0.00E+00	4.60E+01
				K-40	2.32E+02	6.52E+01	1.14E+01
				H3GW	<-4.5E+01	0.00E+00	1.85E+02

Sample Point 72 [INDICATOR - SE @ 0.2 miles]

Sample ID:	584342	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.98E+00	0.00E+00	7.98E+00
				Co-58	<7.74E+00	0.00E+00	7.74E+00
				Fe-59	<1.31E+01	0.00E+00	1.31E+01
				Co-60	<8.71E+00	0.00E+00	8.71E+00
				Zn-65	<1.54E+01	0.00E+00	1.54E+01
				Zr-95	<1.43E+01	0.00E+00	1.43E+01
				Nb-95	<8.08E+00	0.00E+00	8.08E+00
				I-131	<1.06E+01	0.00E+00	1.06E+01
				Cs-134	<7.46E+00	0.00E+00	7.46E+00
				Cs-137	<6.21E+00	0.00E+00	6.21E+00
				BaLa-140	<1.06E+01	0.00E+00	1.06E+01
				Be-7	<6.24E+01	0.00E+00	6.24E+01
				K-40	2.63E+02	9.07E+01	1.14E+02
				H3GW	<-3.0E+01	0.00E+00	1.95E+02

Sample ID:	589515	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.85E+00	0.00E+00	6.85E+00
				Co-58	<6.36E+00	0.00E+00	6.36E+00
				Fe-59	<1.27E+01	0.00E+00	1.27E+01
				Co-60	<7.46E+00	0.00E+00	7.46E+00
				Zn-65	<9.50E+00	0.00E+00	9.50E+00
				Zr-95	<1.16E+01	0.00E+00	1.16E+01
				Nb-95	<6.66E+00	0.00E+00	6.66E+00
				I-131	<8.22E+00	0.00E+00	8.22E+00
				Cs-134	<6.79E+00	0.00E+00	6.79E+00
				Cs-137	<7.14E+00	0.00E+00	7.14E+00
				BaLa-140	<1.03E+01	0.00E+00	1.03E+01
				Be-7	<5.79E+01	0.00E+00	5.79E+01
				K-40	1.59E+02	8.20E+01	1.15E+02
				H3GW	<-8.5E+01	0.00E+00	1.88E+02

Sample ID:	593263	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.53E+00	0.00E+00	8.53E+00
				Co-58	<7.65E+00	0.00E+00	7.65E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<7.92E+00	0.00E+00	7.92E+00
				Zn-65	<1.43E+01	0.00E+00	1.43E+01
				Zr-95	<1.35E+01	0.00E+00	1.35E+01
				Nb-95	<7.61E+00	0.00E+00	7.61E+00
				I-131	<8.86E+00	0.00E+00	8.86E+00
				Cs-134	<8.68E+00	0.00E+00	8.68E+00
				Cs-137	<7.34E+00	0.00E+00	7.34E+00
				BaLa-140	<1.07E+01	0.00E+00	1.07E+01
				Be-7	<5.39E+01	0.00E+00	5.39E+01
				K-40	2.15E+02	7.36E+01	8.25E+01
				H3GW	<-9.0E+01	0.00E+00	1.92E+02

Sample ID:	599309	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.14E+00	0.00E+00	8.14E+00
				Co-58	<7.29E+00	0.00E+00	7.29E+00
				Fe-59	<1.38E+01	0.00E+00	1.38E+01
				Co-60	<8.35E+00	0.00E+00	8.35E+00
				Zn-65	<1.34E+01	0.00E+00	1.34E+01
				Zr-95	<1.31E+01	0.00E+00	1.31E+01
				Nb-95	<8.93E+00	0.00E+00	8.93E+00
				I-131	<9.12E+00	0.00E+00	9.12E+00
				Cs-134	<7.34E+00	0.00E+00	7.34E+00
				Cs-137	<7.19E+00	0.00E+00	7.19E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 72 [INDICATOR - SE @ 0.2 miles]

Sample ID:	599309	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				BaLa-140	<9.40E+00	0.00E+00	9.40E+00
				Be-7	<6.62E+01	0.00E+00	6.62E+01
				K-40	<1.52E+02	0.00E+00	1.52E+02
				H3GW	<-2.7E+01	0.00E+00	1.85E+02

Sample Point 73 [INDICATOR - S @ 0.2 miles]

Sample ID:	584343	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.56E+00	0.00E+00	7.56E+00
				Co-58	<7.03E+00	0.00E+00	7.03E+00
				Fe-59	<1.28E+01	0.00E+00	1.28E+01
				Co-60	<7.16E+00	0.00E+00	7.16E+00
				Zn-65	<1.40E+01	0.00E+00	1.40E+01
				Zr-95	<1.32E+01	0.00E+00	1.32E+01
				Nb-95	<7.12E+00	0.00E+00	7.12E+00
				I-131	<8.35E+00	0.00E+00	8.35E+00
				Cs-134	<8.06E+00	0.00E+00	8.06E+00
				Cs-137	<7.38E+00	0.00E+00	7.38E+00
				BaLa-140	<7.25E+00	0.00E+00	7.25E+00
				Be-7	<5.48E+01	0.00E+00	5.48E+01
				K-40	1.69E+02	9.49E+01	1.36E+02
				H3GW	<-5.1E+01	0.00E+00	1.93E+02

Sample ID:	589516	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.15E+00	0.00E+00	5.15E+00
				Co-58	<4.46E+00	0.00E+00	4.46E+00
				Fe-59	<1.01E+01	0.00E+00	1.01E+01
				Co-60	<5.28E+00	0.00E+00	5.28E+00
				Zn-65	<1.18E+01	0.00E+00	1.18E+01
				Zr-95	<1.23E+01	0.00E+00	1.23E+01
				Nb-95	<6.77E+00	0.00E+00	6.77E+00
				I-131	<7.23E+00	0.00E+00	7.23E+00
				Cs-134	<6.42E+00	0.00E+00	6.42E+00
				Cs-137	<4.83E+00	0.00E+00	4.83E+00
				BaLa-140	<8.05E+00	0.00E+00	8.05E+00
				Be-7	<4.61E+01	0.00E+00	4.61E+01
				K-40	1.37E+02	6.52E+01	8.30E+01
				H3GW	<9.31E+00	0.00E+00	1.87E+02

Sample ID:	593264	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.39E+00	0.00E+00	7.39E+00
				Co-58	<5.39E+00	0.00E+00	5.39E+00
				Fe-59	<1.03E+01	0.00E+00	1.03E+01
				Co-60	<6.05E+00	0.00E+00	6.05E+00
				Zn-65	<1.13E+01	0.00E+00	1.13E+01
				Zr-95	<1.09E+01	0.00E+00	1.09E+01
				Nb-95	<6.47E+00	0.00E+00	6.47E+00
				I-131	<7.41E+00	0.00E+00	7.41E+00
				Cs-134	<6.99E+00	0.00E+00	6.99E+00
				Cs-137	<5.91E+00	0.00E+00	5.91E+00
				BaLa-140	<1.06E+01	0.00E+00	1.06E+01
				Be-7	<5.24E+01	0.00E+00	5.24E+01
				K-40	<1.25E+02	0.00E+00	1.25E+02
				H3GW	<-1.8E+02	0.00E+00	1.92E+02

Sample ID:	599310	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.58E+00	0.00E+00	6.58E+00
				Co-58	<7.81E+00	0.00E+00	7.81E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<6.15E+00	0.00E+00	6.15E+00
				Zn-65	<1.14E+01	0.00E+00	1.14E+01
				Zr-95	<9.00E+00	0.00E+00	9.00E+00
				Nb-95	<6.24E+00	0.00E+00	6.24E+00
				I-131	<7.32E+00	0.00E+00	7.32E+00
				Cs-134	<8.05E+00	0.00E+00	8.05E+00
				Cs-137	<6.13E+00	0.00E+00	6.13E+00
				BaLa-140	<8.17E+00	0.00E+00	8.17E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 73 [INDICATOR - S @ 0.2 miles]

Sample ID:	599310	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<5.05E+01	0.00E+00	5.05E+01
				K-40	1.71E+02	6.92E+01	8.08E+01
				H3GW	<2.22E+01	0.00E+00	1.84E+02

Sample Point 74 [INDICATOR - SSE @ 0.2 miles]

Sample ID:	584344	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.82E+00	0.00E+00	5.82E+00
				Co-58	<5.60E+00	0.00E+00	5.60E+00
				Fe-59	<1.26E+01	0.00E+00	1.26E+01
				Co-60	<5.27E+00	0.00E+00	5.27E+00
				Zn-65	<1.01E+01	0.00E+00	1.01E+01
				Zr-95	<1.14E+01	0.00E+00	1.14E+01
				Nb-95	<6.04E+00	0.00E+00	6.04E+00
				I-131	<6.28E+00	0.00E+00	6.28E+00
				Cs-134	<6.54E+00	0.00E+00	6.54E+00
				Cs-137	<6.07E+00	0.00E+00	6.07E+00
				BaLa-140	<4.30E+00	0.00E+00	4.30E+00
				Be-7	<4.93E+01	0.00E+00	4.93E+01
				K-40	5.56E+01	7.31E+01	1.21E+02
				H3GW	<4.65E+01	0.00E+00	1.94E+02

Sample ID:	589517	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.37E+00	0.00E+00	5.37E+00
				Co-58	<5.16E+00	0.00E+00	5.16E+00
				Fe-59	<8.73E+00	0.00E+00	8.73E+00
				Co-60	<7.91E+00	0.00E+00	7.91E+00
				Zn-65	<9.69E+00	0.00E+00	9.69E+00
				Zr-95	<8.17E+00	0.00E+00	8.17E+00
				Nb-95	<5.23E+00	0.00E+00	5.23E+00
				I-131	<6.36E+00	0.00E+00	6.36E+00
				Cs-134	<5.55E+00	0.00E+00	5.55E+00
				Cs-137	<6.18E+00	0.00E+00	6.18E+00
				BaLa-140	<8.46E+00	0.00E+00	8.46E+00
				Be-7	<4.58E+01	0.00E+00	4.58E+01
				K-40	2.00E+02	6.51E+01	5.27E+01
				H3GW	<-2.1E+01	0.00E+00	1.87E+02

Sample ID:	593265	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.72E+00	0.00E+00	6.72E+00
				Co-58	<7.38E+00	0.00E+00	7.38E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<7.68E+00	0.00E+00	7.68E+00
				Zn-65	<1.18E+01	0.00E+00	1.18E+01
				Zr-95	<1.05E+01	0.00E+00	1.05E+01
				Nb-95	<7.26E+00	0.00E+00	7.26E+00
				I-131	<7.51E+00	0.00E+00	7.51E+00
				Cs-134	<8.57E+00	0.00E+00	8.57E+00
				Cs-137	<6.87E+00	0.00E+00	6.87E+00
				BaLa-140	<8.95E+00	0.00E+00	8.95E+00
				Be-7	<4.84E+01	0.00E+00	4.84E+01
				K-40	1.25E+02	6.73E+01	9.06E+01
				H3GW	<-7.9E+01	0.00E+00	1.93E+02

Sample ID:	599311	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.88E+00	0.00E+00	5.88E+00
				Co-58	<7.29E+00	0.00E+00	7.29E+00
				Fe-59	<1.03E+01	0.00E+00	1.03E+01
				Co-60	<6.82E+00	0.00E+00	6.82E+00
				Zn-65	<1.32E+01	0.00E+00	1.32E+01
				Zr-95	<9.57E+00	0.00E+00	9.57E+00
				Nb-95	<5.80E+00	0.00E+00	5.80E+00
				I-131	<7.09E+00	0.00E+00	7.09E+00
				Cs-134	<6.15E+00	0.00E+00	6.15E+00
				Cs-137	<7.09E+00	0.00E+00	7.09E+00
				BaLa-140	<4.41E+00	0.00E+00	4.41E+00
				Be-7	<4.50E+01	0.00E+00	4.50E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 74 [INDICATOR - SSE @ 0.2 miles]

Sample ID:	599311	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	1.58E+02	6.65E+01	7.65E+01
				H3GW	<8.63E+01	0.00E+00	1.84E+02

Sample Point 75 [INDICATOR - ESE @ 0.1 miles]

Sample ID:	584345	Sample Dates:	2/21/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.82E+00	0.00E+00	6.82E+00
				Co-58	<7.55E+00	0.00E+00	7.55E+00
				Fe-59	<1.65E+01	0.00E+00	1.65E+01
				Co-60	<7.05E+00	0.00E+00	7.05E+00
				Zn-65	<1.84E+01	0.00E+00	1.84E+01
				Zr-95	<1.14E+01	0.00E+00	1.14E+01
				Nb-95	<5.15E+00	0.00E+00	5.15E+00
				I-131	<7.11E+00	0.00E+00	7.11E+00
				Cs-134	<5.96E+00	0.00E+00	5.96E+00
				Cs-137	<5.84E+00	0.00E+00	5.84E+00
				BaLa-140	<7.73E+00	0.00E+00	7.73E+00
				Be-7	<5.03E+01	0.00E+00	5.03E+01
				K-40	1.63E+02	7.58E+01	8.94E+01
				H3GW	<-8.1E+01	0.00E+00	1.94E+02

Sample ID:	589518	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.92E+00	0.00E+00	5.92E+00
				Co-58	<5.50E+00	0.00E+00	5.50E+00
				Fe-59	<9.67E+00	0.00E+00	9.67E+00
				Co-60	<6.90E+00	0.00E+00	6.90E+00
				Zn-65	<1.27E+01	0.00E+00	1.27E+01
				Zr-95	<1.13E+01	0.00E+00	1.13E+01
				Nb-95	<4.93E+00	0.00E+00	4.93E+00
				I-131	<7.36E+00	0.00E+00	7.36E+00
				Cs-134	<5.95E+00	0.00E+00	5.95E+00
				Cs-137	<5.19E+00	0.00E+00	5.19E+00
				BaLa-140	<7.64E+00	0.00E+00	7.64E+00
				Be-7	<3.72E+01	0.00E+00	3.72E+01
				K-40	8.02E+01	4.82E+01	6.09E+01
				H3GW	<-1.0E+02	0.00E+00	1.86E+02

Sample ID:	593266	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.55E+00	0.00E+00	4.55E+00
				Co-58	<5.98E+00	0.00E+00	5.98E+00
				Fe-59	<7.88E+00	0.00E+00	7.88E+00
				Co-60	<4.93E+00	0.00E+00	4.93E+00
				Zn-65	<1.31E+01	0.00E+00	1.31E+01
				Zr-95	<6.03E+00	0.00E+00	6.03E+00
				Nb-95	<5.53E+00	0.00E+00	5.53E+00
				I-131	<6.84E+00	0.00E+00	6.84E+00
				Cs-134	<6.07E+00	0.00E+00	6.07E+00
				Cs-137	<4.67E+00	0.00E+00	4.67E+00
				BaLa-140	<8.13E+00	0.00E+00	8.13E+00
				Be-7	<4.69E+01	0.00E+00	4.69E+01
				K-40	2.11E+02	7.52E+01	8.31E+01
				H3GW	<-1.9E+01	0.00E+00	1.93E+02

Sample ID:	599312	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.01E+00	0.00E+00	7.01E+00
				Co-58	<5.52E+00	0.00E+00	5.52E+00
				Fe-59	<1.33E+01	0.00E+00	1.33E+01
				Co-60	<7.75E+00	0.00E+00	7.75E+00
				Zn-65	<1.37E+01	0.00E+00	1.37E+01
				Zr-95	<1.06E+01	0.00E+00	1.06E+01
				Nb-95	<5.61E+00	0.00E+00	5.61E+00
				I-131	<7.55E+00	0.00E+00	7.55E+00
				Cs-134	<6.79E+00	0.00E+00	6.79E+00
				Cs-137	<6.71E+00	0.00E+00	6.71E+00
				BaLa-140	<7.52E+00	0.00E+00	7.52E+00
				Be-7	<3.80E+01	0.00E+00	3.80E+01
				K-40	1.68E+02	7.11E+01	8.71E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 75 [INDICATOR - ESE @ 0.1 miles]

Sample ID:	599312	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<4.46E+01	0.00E+00	1.85E+02

Sample Point 77 [INDICATOR - S @ 0.4 miles]

Sample ID:	584347	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.18E+00	0.00E+00	8.18E+00
				Co-58	<6.56E+00	0.00E+00	6.56E+00
				Fe-59	<1.80E+01	0.00E+00	1.80E+01
				Co-60	<8.71E+00	0.00E+00	8.71E+00
				Zn-65	<1.53E+01	0.00E+00	1.53E+01
				Zr-95	<1.32E+01	0.00E+00	1.32E+01
				Nb-95	<9.88E+00	0.00E+00	9.88E+00
				I-131	<7.52E+00	0.00E+00	7.52E+00
				Cs-134	<1.01E+01	0.00E+00	1.01E+01
				Cs-137	<8.78E+00	0.00E+00	8.78E+00
				BaLa-140	<8.10E+00	0.00E+00	8.10E+00
				Be-7	<5.66E+01	0.00E+00	5.66E+01
				K-40	1.90E+02	8.87E+01	1.06E+02
				H3GW	<1.89E+02	0.00E+00	1.94E+02

Sample ID:	589519	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.39E+00	0.00E+00	6.39E+00
				Co-58	<6.42E+00	0.00E+00	6.42E+00
				Fe-59	<9.74E+00	0.00E+00	9.74E+00
				Co-60	<7.85E+00	0.00E+00	7.85E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<8.29E+00	0.00E+00	8.29E+00
				Nb-95	<6.00E+00	0.00E+00	6.00E+00
				I-131	<6.82E+00	0.00E+00	6.82E+00
				Cs-134	<7.17E+00	0.00E+00	7.17E+00
				Cs-137	<4.83E+00	0.00E+00	4.83E+00
				BaLa-140	<7.98E+00	0.00E+00	7.98E+00
				Be-7	<4.49E+01	0.00E+00	4.49E+01
				K-40	1.73E+02	7.78E+01	1.02E+02
				H3GW	<9.97E+01	0.00E+00	1.86E+02

Sample ID:	593268	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.02E+00	0.00E+00	7.02E+00
				Co-58	<6.17E+00	0.00E+00	6.17E+00
				Fe-59	<1.11E+01	0.00E+00	1.11E+01
				Co-60	<6.35E+00	0.00E+00	6.35E+00
				Zn-65	<1.45E+01	0.00E+00	1.45E+01
				Zr-95	<1.16E+01	0.00E+00	1.16E+01
				Nb-95	<6.50E+00	0.00E+00	6.50E+00
				I-131	<6.82E+00	0.00E+00	6.82E+00
				Cs-134	<6.75E+00	0.00E+00	6.75E+00
				Cs-137	<6.05E+00	0.00E+00	6.05E+00
				BaLa-140	<6.04E+00	0.00E+00	6.04E+00
				Be-7	<4.48E+01	0.00E+00	4.48E+01
				K-40	1.73E+02	7.36E+01	9.02E+01
				H3GW	<-3.0E+01	0.00E+00	1.93E+02

Sample ID:	599313	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.24E+00	0.00E+00	5.24E+00
				Co-58	<6.36E+00	0.00E+00	6.36E+00
				Fe-59	<9.34E+00	0.00E+00	9.34E+00
				Co-60	<8.89E+00	0.00E+00	8.89E+00
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<1.11E+01	0.00E+00	1.11E+01
				Nb-95	<5.64E+00	0.00E+00	5.64E+00
				I-131	<9.69E+00	0.00E+00	9.69E+00
				Cs-134	<7.53E+00	0.00E+00	7.53E+00
				Cs-137	<8.38E+00	0.00E+00	8.38E+00
				BaLa-140	<5.77E+00	0.00E+00	5.77E+00
				Be-7	<4.93E+01	0.00E+00	4.93E+01
				K-40	1.39E+02	6.87E+01	8.83E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 77 [INDICATOR - S @ 0.4 miles]

Sample ID:	599313	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<7.95E+01	0.00E+00	1.99E+02

Sample Point 78 [INDICATOR - S @ 0.5 miles]

Sample ID:	584348	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.64E+00	0.00E+00	7.64E+00
				Co-58	<8.27E+00	0.00E+00	8.27E+00
				Fe-59	<2.60E+00	0.00E+00	2.60E+00
				Co-60	<7.16E+00	0.00E+00	7.16E+00
				Zn-65	<1.83E+01	0.00E+00	1.83E+01
				Zr-95	<1.23E+01	0.00E+00	1.23E+01
				Nb-95	<8.13E+00	0.00E+00	8.13E+00
				I-131	<7.70E+00	0.00E+00	7.70E+00
				Cs-134	<6.21E+00	0.00E+00	6.21E+00
				Cs-137	<8.52E+00	0.00E+00	8.52E+00
				BaLa-140	<9.06E+00	0.00E+00	9.06E+00
				Be-7	<5.48E+01	0.00E+00	5.48E+01
				K-40	1.30E+02	7.68E+01	1.02E+02
				H3GW	3.62E+02	1.25E+02	1.95E+02

Sample ID:	589520	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.50E+00	0.00E+00	6.50E+00
				Co-58	<5.62E+00	0.00E+00	5.62E+00
				Fe-59	<8.11E+00	0.00E+00	8.11E+00
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.40E+01	0.00E+00	1.40E+01
				Zr-95	<1.05E+01	0.00E+00	1.05E+01
				Nb-95	<8.28E+00	0.00E+00	8.28E+00
				I-131	<8.20E+00	0.00E+00	8.20E+00
				Cs-134	<8.18E+00	0.00E+00	8.18E+00
				Cs-137	<6.66E+00	0.00E+00	6.66E+00
				BaLa-140	<6.36E+00	0.00E+00	6.36E+00
				Be-7	<5.00E+01	0.00E+00	5.00E+01
				K-40	1.77E+02	6.31E+01	5.82E+01
				H3GW	2.45E+02	1.19E+02	1.92E+02

Sample ID:	593269	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.44E+00	0.00E+00	7.44E+00
				Co-58	<5.86E+00	0.00E+00	5.86E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<7.20E+00	0.00E+00	7.20E+00
				Zn-65	<1.27E+01	0.00E+00	1.27E+01
				Zr-95	<1.34E+01	0.00E+00	1.34E+01
				Nb-95	<6.68E+00	0.00E+00	6.68E+00
				I-131	<7.49E+00	0.00E+00	7.49E+00
				Cs-134	<6.99E+00	0.00E+00	6.99E+00
				Cs-137	<6.56E+00	0.00E+00	6.56E+00
				BaLa-140	<9.25E+00	0.00E+00	9.25E+00
				Be-7	<5.74E+01	0.00E+00	5.74E+01
				K-40	1.51E+02	8.19E+01	1.16E+02
				H3GW	2.64E+02	1.21E+02	1.94E+02

Sample ID:	599314	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.43E+00	0.00E+00	7.43E+00
				Co-58	<6.54E+00	0.00E+00	6.54E+00
				Fe-59	<1.12E+01	0.00E+00	1.12E+01
				Co-60	<5.04E+00	0.00E+00	5.04E+00
				Zn-65	<1.70E+01	0.00E+00	1.70E+01
				Zr-95	<1.17E+01	0.00E+00	1.17E+01
				Nb-95	<8.40E+00	0.00E+00	8.40E+00
				I-131	<9.07E+00	0.00E+00	9.07E+00
				Cs-134	<8.18E+00	0.00E+00	8.18E+00
				Cs-137	<5.84E+00	0.00E+00	5.84E+00
				BaLa-140	<1.15E+01	0.00E+00	1.15E+01
				Be-7	<4.74E+01	0.00E+00	4.74E+01
				K-40	2.95E+02	8.63E+01	8.38E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 78 [INDICATOR - S @ 0.5 miles]

Sample ID:	599314	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	3.21E+02	1.27E+02	1.99E+02

Sample Point 79 [INDICATOR - S @ 0.5 miles]

Sample ID:	584349	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.92E+00	0.00E+00	7.92E+00
				Co-58	<6.60E+00	0.00E+00	6.60E+00
				Fe-59	<1.30E+01	0.00E+00	1.30E+01
				Co-60	<1.66E+00	0.00E+00	1.66E+00
				Zn-65	<1.42E+01	0.00E+00	1.42E+01
				Zr-95	<1.39E+01	0.00E+00	1.39E+01
				Nb-95	<7.85E+00	0.00E+00	7.85E+00
				I-131	<7.83E+00	0.00E+00	7.83E+00
				Cs-134	<7.78E+00	0.00E+00	7.78E+00
				Cs-137	<7.09E+00	0.00E+00	7.09E+00
				BaLa-140	<8.06E+00	0.00E+00	8.06E+00
				Be-7	<6.28E+01	0.00E+00	6.28E+01
				K-40	<1.34E+02	0.00E+00	1.34E+02
				H3GW	2.03E+02	1.13E+02	1.84E+02

Sample ID:	589521	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.66E+00	0.00E+00	6.66E+00
				Co-58	<5.62E+00	0.00E+00	5.62E+00
				Fe-59	<1.22E+01	0.00E+00	1.22E+01
				Co-60	<6.30E+00	0.00E+00	6.30E+00
				Zn-65	<1.23E+01	0.00E+00	1.23E+01
				Zr-95	<1.22E+01	0.00E+00	1.22E+01
				Nb-95	<7.48E+00	0.00E+00	7.48E+00
				I-131	<6.71E+00	0.00E+00	6.71E+00
				Cs-134	<7.84E+00	0.00E+00	7.84E+00
				Cs-137	<6.68E+00	0.00E+00	6.68E+00
				BaLa-140	<8.81E+00	0.00E+00	8.81E+00
				Be-7	<5.36E+01	0.00E+00	5.36E+01
				K-40	2.18E+02	9.07E+01	1.19E+02
				H3GW	<8.20E+01	0.00E+00	1.92E+02

Sample ID:	593270	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.57E+00	0.00E+00	5.57E+00
				Co-58	<6.95E+00	0.00E+00	6.95E+00
				Fe-59	<1.29E+01	0.00E+00	1.29E+01
				Co-60	<6.31E+00	0.00E+00	6.31E+00
				Zn-65	<1.23E+01	0.00E+00	1.23E+01
				Zr-95	<9.67E+00	0.00E+00	9.67E+00
				Nb-95	<6.62E+00	0.00E+00	6.62E+00
				I-131	<7.76E+00	0.00E+00	7.76E+00
				Cs-134	<7.29E+00	0.00E+00	7.29E+00
				Cs-137	<5.46E+00	0.00E+00	5.46E+00
				BaLa-140	<8.87E+00	0.00E+00	8.87E+00
				Be-7	<4.27E+01	0.00E+00	4.27E+01
				K-40	1.89E+02	7.15E+01	7.95E+01
				H3GW	<8.09E+01	0.00E+00	1.93E+02

Sample ID:	599315	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.06E+00	0.00E+00	5.06E+00
				Co-58	<5.45E+00	0.00E+00	5.45E+00
				Fe-59	<1.39E+01	0.00E+00	1.39E+01
				Co-60	<6.59E+00	0.00E+00	6.59E+00
				Zn-65	<1.42E+01	0.00E+00	1.42E+01
				Zr-95	<7.98E+00	0.00E+00	7.98E+00
				Nb-95	<5.83E+00	0.00E+00	5.83E+00
				I-131	<6.17E+00	0.00E+00	6.17E+00
				Cs-134	<6.77E+00	0.00E+00	6.77E+00
				Cs-137	<5.71E+00	0.00E+00	5.71E+00
				BaLa-140	<4.04E+00	0.00E+00	4.04E+00
				Be-7	<4.73E+01	0.00E+00	4.73E+01
				K-40	1.63E+02	7.32E+01	9.31E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 79 [INDICATOR - S @ 0.5 miles]

Sample ID:	599315	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.31E+02	0.00E+00	1.99E+02

Sample Point 80 [INDICATOR - S @ 0.6 miles]

Sample ID:	584350	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.74E+00	0.00E+00	7.74E+00
				Co-58	<7.98E+00	0.00E+00	7.98E+00
				Fe-59	<1.44E+01	0.00E+00	1.44E+01
				Co-60	<6.71E+00	0.00E+00	6.71E+00
				Zn-65	<1.64E+01	0.00E+00	1.64E+01
				Zr-95	<1.39E+01	0.00E+00	1.39E+01
				Nb-95	<7.50E+00	0.00E+00	7.50E+00
				I-131	<9.34E+00	0.00E+00	9.34E+00
				Cs-134	<8.90E+00	0.00E+00	8.90E+00
				Cs-137	<7.91E+00	0.00E+00	7.91E+00
				BaLa-140	<1.01E+01	0.00E+00	1.01E+01
				Be-7	<6.19E+01	0.00E+00	6.19E+01
				K-40	2.43E+02	8.53E+01	9.15E+01
				H3GW	2.00E+02	1.12E+02	1.82E+02

Sample ID:	589522	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.99E+00	0.00E+00	4.99E+00
				Co-58	<6.56E+00	0.00E+00	6.56E+00
				Fe-59	<1.19E+01	0.00E+00	1.19E+01
				Co-60	<6.64E+00	0.00E+00	6.64E+00
				Zn-65	<1.36E+01	0.00E+00	1.36E+01
				Zr-95	<1.40E+01	0.00E+00	1.40E+01
				Nb-95	<1.11E+01	0.00E+00	1.11E+01
				I-131	<8.41E+00	0.00E+00	8.41E+00
				Cs-134	<7.53E+00	0.00E+00	7.53E+00
				Cs-137	<7.96E+00	0.00E+00	7.96E+00
				BaLa-140	<9.33E+00	0.00E+00	9.33E+00
				Be-7	<5.40E+01	0.00E+00	5.40E+01
				K-40	1.61E+02	6.56E+01	7.15E+01
				H3GW	<1.36E+02	0.00E+00	1.92E+02

Sample ID:	593271	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.67E+00	0.00E+00	6.67E+00
				Co-58	<6.03E+00	0.00E+00	6.03E+00
				Fe-59	<8.35E+00	0.00E+00	8.35E+00
				Co-60	<6.39E+00	0.00E+00	6.39E+00
				Zn-65	<1.29E+01	0.00E+00	1.29E+01
				Zr-95	<1.02E+01	0.00E+00	1.02E+01
				Nb-95	<5.86E+00	0.00E+00	5.86E+00
				I-131	<5.98E+00	0.00E+00	5.98E+00
				Cs-134	<7.83E+00	0.00E+00	7.83E+00
				Cs-137	<5.57E+00	0.00E+00	5.57E+00
				BaLa-140	<7.98E+00	0.00E+00	7.98E+00
				Be-7	<3.63E+01	0.00E+00	3.63E+01
				K-40	1.29E+02	6.13E+01	7.63E+01
				H3GW	<4.14E+01	0.00E+00	1.92E+02

Sample ID:	599316	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.54E+00	0.00E+00	5.54E+00
				Co-58	<4.54E+00	0.00E+00	4.54E+00
				Fe-59	<9.97E+00	0.00E+00	9.97E+00
				Co-60	<5.28E+00	0.00E+00	5.28E+00
				Zn-65	<1.60E+01	0.00E+00	1.60E+01
				Zr-95	<1.06E+01	0.00E+00	1.06E+01
				Nb-95	<5.82E+00	0.00E+00	5.82E+00
				I-131	<6.47E+00	0.00E+00	6.47E+00
				Cs-134	<6.42E+00	0.00E+00	6.42E+00
				Cs-137	<5.02E+00	0.00E+00	5.02E+00
				BaLa-140	<6.77E+00	0.00E+00	6.77E+00
				Be-7	<4.21E+01	0.00E+00	4.21E+01
				K-40	1.75E+02	7.79E+01	1.02E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 80 [INDICATOR - S @ 0.6 miles]

Sample ID:	599316	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.57E+02	0.00E+00	1.97E+02

Sample Point 81 [INDICATOR - S @ 0.6 miles]

Sample ID:	584351	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.42E+00	0.00E+00	6.42E+00
				Co-58	<5.34E+00	0.00E+00	5.34E+00
				Fe-59	<1.21E+01	0.00E+00	1.21E+01
				Co-60	<6.92E+00	0.00E+00	6.92E+00
				Zn-65	<1.69E+01	0.00E+00	1.69E+01
				Zr-95	<1.29E+01	0.00E+00	1.29E+01
				Nb-95	<8.32E+00	0.00E+00	8.32E+00
				I-131	<8.79E+00	0.00E+00	8.79E+00
				Cs-134	<8.85E+00	0.00E+00	8.85E+00
				Cs-137	<7.94E+00	0.00E+00	7.94E+00
				BaLa-140	<6.02E+00	0.00E+00	6.02E+00
				Be-7	<5.74E+01	0.00E+00	5.74E+01
				K-40	1.51E+02	7.28E+01	8.30E+01
				H3GW	2.54E+02	1.14E+02	1.82E+02

Sample ID:	589523	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.08E+00	0.00E+00	5.08E+00
				Co-58	<5.53E+00	0.00E+00	5.53E+00
				Fe-59	<1.15E+01	0.00E+00	1.15E+01
				Co-60	<4.94E+00	0.00E+00	4.94E+00
				Zn-65	<1.03E+01	0.00E+00	1.03E+01
				Zr-95	<8.90E+00	0.00E+00	8.90E+00
				Nb-95	<5.81E+00	0.00E+00	5.81E+00
				I-131	<7.83E+00	0.00E+00	7.83E+00
				Cs-134	<4.92E+00	0.00E+00	4.92E+00
				Cs-137	<4.75E+00	0.00E+00	4.75E+00
				BaLa-140	<9.64E+00	0.00E+00	9.64E+00
				Be-7	<4.55E+01	0.00E+00	4.55E+01
				K-40	1.87E+02	7.11E+01	8.02E+01
				H3GW	<1.09E+02	0.00E+00	1.92E+02

Sample ID:	593272	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.53E+00	0.00E+00	6.53E+00
				Co-58	<5.99E+00	0.00E+00	5.99E+00
				Fe-59	<1.21E+01	0.00E+00	1.21E+01
				Co-60	<5.55E+00	0.00E+00	5.55E+00
				Zn-65	<1.18E+01	0.00E+00	1.18E+01
				Zr-95	<1.10E+01	0.00E+00	1.10E+01
				Nb-95	<5.84E+00	0.00E+00	5.84E+00
				I-131	<6.96E+00	0.00E+00	6.96E+00
				Cs-134	<1.00E+01	0.00E+00	1.00E+01
				Cs-137	<7.72E+00	0.00E+00	7.72E+00
				BaLa-140	<1.02E+01	0.00E+00	1.02E+01
				Be-7	<4.86E+01	0.00E+00	4.86E+01
				K-40	9.17E+01	6.47E+01	9.51E+01
				H3GW	<1.6E+01	0.00E+00	1.93E+02

Sample ID:	599317	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.37E+00	0.00E+00	5.37E+00
				Co-58	<5.80E+00	0.00E+00	5.80E+00
				Fe-59	<1.40E+01	0.00E+00	1.40E+01
				Co-60	<8.21E+00	0.00E+00	8.21E+00
				Zn-65	<9.73E+00	0.00E+00	9.73E+00
				Zr-95	<1.13E+01	0.00E+00	1.13E+01
				Nb-95	<7.61E+00	0.00E+00	7.61E+00
				I-131	<7.56E+00	0.00E+00	7.56E+00
				Cs-134	<6.48E+00	0.00E+00	6.48E+00
				Cs-137	<6.32E+00	0.00E+00	6.32E+00
				BaLa-140	<7.12E+00	0.00E+00	7.12E+00
				Be-7	<4.70E+01	0.00E+00	4.70E+01
				K-40	1.37E+02	6.14E+01	7.16E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 81 [INDICATOR - S @ 0.6 miles]

Sample ID:	599317	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	2.03E+02	1.23E+02	1.99E+02

Sample Point 82 [INDICATOR - S @ 0.6 miles]

Sample ID:	584352	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.98E+00	0.00E+00	6.98E+00
				Co-58	<9.70E+00	0.00E+00	9.70E+00
				Fe-59	<1.70E+01	0.00E+00	1.70E+01
				Co-60	<9.26E+00	0.00E+00	9.26E+00
				Zn-65	<1.97E+01	0.00E+00	1.97E+01
				Zr-95	<1.37E+01	0.00E+00	1.37E+01
				Nb-95	<9.23E+00	0.00E+00	9.23E+00
				I-131	<1.00E+01	0.00E+00	1.00E+01
				Cs-134	<9.25E+00	0.00E+00	9.25E+00
				Cs-137	<7.25E+00	0.00E+00	7.25E+00
				BaLa-140	<1.31E+01	0.00E+00	1.31E+01
				Be-7	<5.63E+01	0.00E+00	5.63E+01
				K-40	<1.70E+02	0.00E+00	1.70E+02
				H3GW	1.92E+02	1.12E+02	1.82E+02

Sample ID:	589524	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.38E+00	0.00E+00	6.38E+00
				Co-58	<6.24E+00	0.00E+00	6.24E+00
				Fe-59	<1.28E+01	0.00E+00	1.28E+01
				Co-60	<5.55E+00	0.00E+00	5.55E+00
				Zn-65	<1.45E+01	0.00E+00	1.45E+01
				Zr-95	<1.12E+01	0.00E+00	1.12E+01
				Nb-95	<6.96E+00	0.00E+00	6.96E+00
				I-131	<8.09E+00	0.00E+00	8.09E+00
				Cs-134	<8.41E+00	0.00E+00	8.41E+00
				Cs-137	<6.55E+00	0.00E+00	6.55E+00
				BaLa-140	<7.15E+00	0.00E+00	7.15E+00
				Be-7	<4.74E+01	0.00E+00	4.74E+01
				K-40	<1.25E+02	0.00E+00	1.25E+02
				H3GW	<1.11E+02	0.00E+00	1.91E+02

Sample ID:	593273	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.62E+00	0.00E+00	4.62E+00
				Co-58	<5.85E+00	0.00E+00	5.85E+00
				Fe-59	<1.39E+01	0.00E+00	1.39E+01
				Co-60	<7.17E+00	0.00E+00	7.17E+00
				Zn-65	<1.36E+01	0.00E+00	1.36E+01
				Zr-95	<8.44E+00	0.00E+00	8.44E+00
				Nb-95	<6.67E+00	0.00E+00	6.67E+00
				I-131	<7.27E+00	0.00E+00	7.27E+00
				Cs-134	<6.17E+00	0.00E+00	6.17E+00
				Cs-137	<5.17E+00	0.00E+00	5.17E+00
				BaLa-140	<8.28E+00	0.00E+00	8.28E+00
				Be-7	<4.77E+01	0.00E+00	4.77E+01
				K-40	1.91E+02	8.56E+01	1.15E+02
				H3GW	<5.14E+01	0.00E+00	1.93E+02

Sample ID:	599318	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.75E+00	0.00E+00	6.75E+00
				Co-58	<6.64E+00	0.00E+00	6.64E+00
				Fe-59	<1.24E+01	0.00E+00	1.24E+01
				Co-60	<6.16E+00	0.00E+00	6.16E+00
				Zn-65	<1.45E+01	0.00E+00	1.45E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<6.05E+00	0.00E+00	6.05E+00
				I-131	<8.14E+00	0.00E+00	8.14E+00
				Cs-134	<7.41E+00	0.00E+00	7.41E+00
				Cs-137	<6.13E+00	0.00E+00	6.13E+00
				BaLa-140	<6.21E+00	0.00E+00	6.21E+00
				Be-7	<5.44E+01	0.00E+00	5.44E+01
				K-40	7.70E+01	6.67E+01	1.03E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 82 [INDICATOR - S @ 0.6 miles]

Sample ID:	599318	Sample Dates:	11/13/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<5.45E+01	0.00E+00	1.98E+02

Sample Point 83 [INDICATOR - SSW @ 1.6 miles]

Sample ID:	584353	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.44E+00	0.00E+00	6.44E+00
				Co-58	<7.96E+00	0.00E+00	7.96E+00
				Fe-59	<1.30E+01	0.00E+00	1.30E+01
				Co-60	<9.10E+00	0.00E+00	9.10E+00
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<1.34E+01	0.00E+00	1.34E+01
				Nb-95	<9.47E+00	0.00E+00	9.47E+00
				I-131	<9.28E+00	0.00E+00	9.28E+00
				Cs-134	<9.16E+00	0.00E+00	9.16E+00
				Cs-137	<8.66E+00	0.00E+00	8.66E+00
				BaLa-140	<9.79E+00	0.00E+00	9.79E+00
				Be-7	<5.44E+01	0.00E+00	5.44E+01
				K-40	8.82E+01	7.69E+01	1.18E+02
				H3GW	6.69E+02	1.27E+02	1.82E+02

Sample ID:	589525	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.04E+00	0.00E+00	7.04E+00
				Co-58	<5.02E+00	0.00E+00	5.02E+00
				Fe-59	<1.14E+01	0.00E+00	1.14E+01
				Co-60	<7.14E+00	0.00E+00	7.14E+00
				Zn-65	<1.45E+01	0.00E+00	1.45E+01
				Zr-95	<8.74E+00	0.00E+00	8.74E+00
				Nb-95	<6.81E+00	0.00E+00	6.81E+00
				I-131	<8.25E+00	0.00E+00	8.25E+00
				Cs-134	<5.84E+00	0.00E+00	5.84E+00
				Cs-137	<6.13E+00	0.00E+00	6.13E+00
				BaLa-140	<8.62E+00	0.00E+00	8.62E+00
				Be-7	<5.28E+01	0.00E+00	5.28E+01
				K-40	4.79E+01	5.97E+01	9.77E+01
				H3GW	5.93E+02	1.30E+02	1.92E+02

Sample ID:	593274	Sample Dates:	8/22/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.79E+00	0.00E+00	6.79E+00
				Co-58	<6.61E+00	0.00E+00	6.61E+00
				Fe-59	<1.20E+01	0.00E+00	1.20E+01
				Co-60	<6.33E+00	0.00E+00	6.33E+00
				Zn-65	<1.66E+01	0.00E+00	1.66E+01
				Zr-95	<9.63E+00	0.00E+00	9.63E+00
				Nb-95	<7.69E+00	0.00E+00	7.69E+00
				I-131	<6.75E+00	0.00E+00	6.75E+00
				Cs-134	<9.08E+00	0.00E+00	9.08E+00
				Cs-137	<5.81E+00	0.00E+00	5.81E+00
				BaLa-140	<7.85E+00	0.00E+00	7.85E+00
				Be-7	<6.27E+01	0.00E+00	6.27E+01
				K-40	1.56E+02	6.72E+01	8.00E+01
				H3GW	6.81E+02	1.34E+02	1.93E+02

Sample ID:	599319	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.92E+00	0.00E+00	6.92E+00
				Co-58	<7.06E+00	0.00E+00	7.06E+00
				Fe-59	<1.32E+01	0.00E+00	1.32E+01
				Co-60	<8.09E+00	0.00E+00	8.09E+00
				Zn-65	<1.61E+01	0.00E+00	1.61E+01
				Zr-95	<1.25E+01	0.00E+00	1.25E+01
				Nb-95	<7.30E+00	0.00E+00	7.30E+00
				I-131	<9.02E+00	0.00E+00	9.02E+00
				Cs-134	<7.60E+00	0.00E+00	7.60E+00
				Cs-137	<8.91E+00	0.00E+00	8.91E+00
				BaLa-140	<1.26E+01	0.00E+00	1.26E+01
				Be-7	<5.91E+01	0.00E+00	5.91E+01
				K-40	1.31E+02	7.63E+01	1.08E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 83 [INDICATOR - SSW @ 1.6 miles]

Sample ID:	599319	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	5.67E+02	1.36E+02	2.00E+02

Sample Point 84 [GWPI - SSW @ 0.2 miles]

Sample ID:	584354	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.01E+01	0.00E+00	1.01E+01
				Co-58	<5.30E+00	0.00E+00	5.30E+00
				Fe-59	<1.67E+01	0.00E+00	1.67E+01
				Co-60	<8.27E+00	0.00E+00	8.27E+00
				Zn-65	<1.46E+01	0.00E+00	1.46E+01
				Zr-95	<1.21E+01	0.00E+00	1.21E+01
				Nb-95	<9.12E+00	0.00E+00	9.12E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<8.24E+00	0.00E+00	8.24E+00
				Cs-137	<7.95E+00	0.00E+00	7.95E+00
				BaLa-140	<1.38E+01	0.00E+00	1.38E+01
				Be-7	<6.77E+01	0.00E+00	6.77E+01
				K-40	1.28E+02	7.32E+01	8.71E+01
				H3GW	<-5.1E+01	0.00E+00	1.82E+02

Sample ID:	589526	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.57E+00	0.00E+00	5.57E+00
				Co-58	<6.94E+00	0.00E+00	6.94E+00
				Fe-59	<9.40E+00	0.00E+00	9.40E+00
				Co-60	<6.68E+00	0.00E+00	6.68E+00
				Zn-65	<1.11E+01	0.00E+00	1.11E+01
				Zr-95	<1.23E+01	0.00E+00	1.23E+01
				Nb-95	<5.79E+00	0.00E+00	5.79E+00
				I-131	<6.91E+00	0.00E+00	6.91E+00
				Cs-134	<5.54E+00	0.00E+00	5.54E+00
				Cs-137	<6.64E+00	0.00E+00	6.64E+00
				BaLa-140	<6.08E+00	0.00E+00	6.08E+00
				Be-7	<4.92E+01	0.00E+00	4.92E+01
				K-40	2.32E+02	7.18E+01	6.10E+01
				H3GW	<-2.5E+01	0.00E+00	1.92E+02

Sample ID:	593275	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.83E+00	0.00E+00	5.83E+00
				Co-58	<5.25E+00	0.00E+00	5.25E+00
				Fe-59	<1.14E+01	0.00E+00	1.14E+01
				Co-60	<4.56E+00	0.00E+00	4.56E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<1.02E+01	0.00E+00	1.02E+01
				Nb-95	<6.15E+00	0.00E+00	6.15E+00
				I-131	<7.14E+00	0.00E+00	7.14E+00
				Cs-134	<7.90E+00	0.00E+00	7.90E+00
				Cs-137	<5.87E+00	0.00E+00	5.87E+00
				BaLa-140	<7.85E+00	0.00E+00	7.85E+00
				Be-7	<4.75E+01	0.00E+00	4.75E+01
				K-40	1.09E+02	5.06E+01	5.35E+01
				H3GW	<-6.8E+01	0.00E+00	1.92E+02

Sample ID:	599320	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.37E+00	0.00E+00	6.37E+00
				Co-58	<5.06E+00	0.00E+00	5.06E+00
				Fe-59	<1.18E+01	0.00E+00	1.18E+01
				Co-60	<3.82E+00	0.00E+00	3.82E+00
				Zn-65	<1.02E+01	0.00E+00	1.02E+01
				Zr-95	<7.13E+00	0.00E+00	7.13E+00
				Nb-95	<5.52E+00	0.00E+00	5.52E+00
				I-131	<6.47E+00	0.00E+00	6.47E+00
				Cs-134	<7.17E+00	0.00E+00	7.17E+00
				Cs-137	<5.56E+00	0.00E+00	5.56E+00
				BaLa-140	<5.90E+00	0.00E+00	5.90E+00
				Be-7	<4.68E+01	0.00E+00	4.68E+01
				K-40	1.68E+02	7.61E+01	9.90E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 84 [GWPI - SSW @ 0.2 miles]

Sample ID:	599320	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-7.6E+01	0.00E+00	1.98E+02

Sample Point 85 [GWPI - SSW @ 0.22 miles]

Sample ID:	584355	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.91E+00	0.00E+00	4.91E+00
				Co-58	<7.99E+00	0.00E+00	7.99E+00
				Fe-59	<1.80E+01	0.00E+00	1.80E+01
				Co-60	<8.00E+00	0.00E+00	8.00E+00
				Zn-65	<9.68E+00	0.00E+00	9.68E+00
				Zr-95	<6.81E+00	0.00E+00	6.81E+00
				Nb-95	<1.05E+01	0.00E+00	1.05E+01
				I-131	<8.96E+00	0.00E+00	8.96E+00
				Cs-134	<9.42E+00	0.00E+00	9.42E+00
				Cs-137	<1.07E+01	0.00E+00	1.07E+01
				BaLa-140	<1.13E+01	0.00E+00	1.13E+01
				Be-7	<7.60E+01	0.00E+00	7.60E+01
				K-40	<1.50E+02	0.00E+00	1.50E+02
				H3GW	<5.12E+01	0.00E+00	1.82E+02

Sample ID:	589527	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.22E+00	0.00E+00	6.22E+00
				Co-58	<5.53E+00	0.00E+00	5.53E+00
				Fe-59	<9.61E+00	0.00E+00	9.61E+00
				Co-60	<7.31E+00	0.00E+00	7.31E+00
				Zn-65	<1.34E+01	0.00E+00	1.34E+01
				Zr-95	<9.92E+00	0.00E+00	9.92E+00
				Nb-95	<6.36E+00	0.00E+00	6.36E+00
				I-131	<5.83E+00	0.00E+00	5.83E+00
				Cs-134	<6.42E+00	0.00E+00	6.42E+00
				Cs-137	<4.83E+00	0.00E+00	4.83E+00
				BaLa-140	<9.40E+00	0.00E+00	9.40E+00
				Be-7	<4.79E+01	0.00E+00	4.79E+01
				K-40	1.69E+02	7.24E+01	9.05E+01
				H3GW	<-2.7E+01	0.00E+00	1.92E+02

Sample ID:	593276	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.95E+00	0.00E+00	5.95E+00
				Co-58	<5.23E+00	0.00E+00	5.23E+00
				Fe-59	<9.23E+00	0.00E+00	9.23E+00
				Co-60	<5.38E+00	0.00E+00	5.38E+00
				Zn-65	<1.49E+01	0.00E+00	1.49E+01
				Zr-95	<1.04E+01	0.00E+00	1.04E+01
				Nb-95	<7.80E+00	0.00E+00	7.80E+00
				I-131	<6.64E+00	0.00E+00	6.64E+00
				Cs-134	<6.68E+00	0.00E+00	6.68E+00
				Cs-137	<4.21E+00	0.00E+00	4.21E+00
				BaLa-140	<6.87E+00	0.00E+00	6.87E+00
				Be-7	<3.88E+01	0.00E+00	3.88E+01
				K-40	1.11E+02	5.20E+01	5.79E+01
				H3GW	<-1.7E+01	0.00E+00	1.92E+02

Sample ID:	599321	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.54E+00	0.00E+00	7.54E+00
				Co-58	<7.53E+00	0.00E+00	7.53E+00
				Fe-59	<1.17E+01	0.00E+00	1.17E+01
				Co-60	<8.02E+00	0.00E+00	8.02E+00
				Zn-65	<1.57E+01	0.00E+00	1.57E+01
				Zr-95	<1.13E+01	0.00E+00	1.13E+01
				Nb-95	<8.33E+00	0.00E+00	8.33E+00
				I-131	<7.27E+00	0.00E+00	7.27E+00
				Cs-134	<7.31E+00	0.00E+00	7.31E+00
				Cs-137	<6.35E+00	0.00E+00	6.35E+00
				BaLa-140	<7.07E+00	0.00E+00	7.07E+00
				Be-7	<5.42E+01	0.00E+00	5.42E+01
				K-40	1.95E+02	7.74E+01	9.10E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 85 [GWPI - SSW @ 0.22 miles]

Sample ID:	599321	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-2.2E+01	0.00E+00	1.98E+02

Sample Point 86 [GWPI - SW @ 0.2 miles]

Sample ID:	584356	Sample Dates:	2/20/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.81E+00	0.00E+00	6.81E+00
				Co-58	<7.53E+00	0.00E+00	7.53E+00
				Fe-59	<1.70E+01	0.00E+00	1.70E+01
				Co-60	<4.47E+00	0.00E+00	4.47E+00
				Zn-65	<1.15E+01	0.00E+00	1.15E+01
				Zr-95	<1.31E+01	0.00E+00	1.31E+01
				Nb-95	<7.72E+00	0.00E+00	7.72E+00
				I-131	<8.94E+00	0.00E+00	8.94E+00
				Cs-134	<9.39E+00	0.00E+00	9.39E+00
				Cs-137	<7.89E+00	0.00E+00	7.89E+00
				BaLa-140	<7.98E+00	0.00E+00	7.98E+00
				Be-7	<5.61E+01	0.00E+00	5.61E+01
				K-40	2.21E+02	8.71E+01	8.82E+01
				H3GW	<1.82E+02	0.00E+00	1.82E+02

Sample ID:	589528	Sample Dates:	5/23/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.21E+00	0.00E+00	6.21E+00
				Co-58	<5.07E+00	0.00E+00	5.07E+00
				Fe-59	<1.43E+01	0.00E+00	1.43E+01
				Co-60	<6.18E+00	0.00E+00	6.18E+00
				Zn-65	<1.15E+01	0.00E+00	1.15E+01
				Zr-95	<8.82E+00	0.00E+00	8.82E+00
				Nb-95	<4.95E+00	0.00E+00	4.95E+00
				I-131	<7.12E+00	0.00E+00	7.12E+00
				Cs-134	<6.59E+00	0.00E+00	6.59E+00
				Cs-137	<6.08E+00	0.00E+00	6.08E+00
				BaLa-140	<5.95E+00	0.00E+00	5.95E+00
				Be-7	<4.20E+01	0.00E+00	4.20E+01
				K-40	1.66E+02	7.19E+01	8.95E+01
				H3GW	2.15E+02	1.18E+02	1.92E+02

Sample ID:	593277	Sample Dates:	8/21/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.95E+00	0.00E+00	5.95E+00
				Co-58	<5.63E+00	0.00E+00	5.63E+00
				Fe-59	<9.27E+00	0.00E+00	9.27E+00
				Co-60	<6.51E+00	0.00E+00	6.51E+00
				Zn-65	<1.36E+01	0.00E+00	1.36E+01
				Zr-95	<9.12E+00	0.00E+00	9.12E+00
				Nb-95	<6.23E+00	0.00E+00	6.23E+00
				I-131	<6.69E+00	0.00E+00	6.69E+00
				Cs-134	<4.84E+00	0.00E+00	4.84E+00
				Cs-137	<5.64E+00	0.00E+00	5.64E+00
				BaLa-140	<8.19E+00	0.00E+00	8.19E+00
				Be-7	<5.05E+01	0.00E+00	5.05E+01
				K-40	1.33E+02	7.37E+01	1.04E+02
				H3GW	1.93E+02	1.18E+02	1.92E+02

Sample ID:	599322	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.65E+00	0.00E+00	6.65E+00
				Co-58	<7.11E+00	0.00E+00	7.11E+00
				Fe-59	<1.05E+01	0.00E+00	1.05E+01
				Co-60	<5.50E+00	0.00E+00	5.50E+00
				Zn-65	<1.39E+01	0.00E+00	1.39E+01
				Zr-95	<1.31E+01	0.00E+00	1.31E+01
				Nb-95	<7.21E+00	0.00E+00	7.21E+00
				I-131	<7.27E+00	0.00E+00	7.27E+00
				Cs-134	<9.25E+00	0.00E+00	9.25E+00
				Cs-137	<6.02E+00	0.00E+00	6.02E+00
				BaLa-140	<7.32E+00	0.00E+00	7.32E+00
				Be-7	<4.87E+01	0.00E+00	4.87E+01
				K-40	2.33E+02	8.08E+01	8.98E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 86 [GWPI - SW @ 0.2 miles]

Sample ID:	599322	Sample Dates:	11/14/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.12E+02	0.00E+00	1.98E+02

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 102 [INDICATOR - W @ 2.82 miles]

Sample ID:	589988	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.21E-01	0.00E+00	7.21E-01
				I-131	<5.57E+00	0.00E+00	5.57E+00
				Cs-134	<5.34E+00	0.00E+00	5.34E+00
				Cs-137	<7.20E+00	0.00E+00	7.20E+00
				BaLa-140	<6.33E+00	0.00E+00	6.33E+00
				Be-7	<4.81E+01	0.00E+00	4.81E+01
				K-40	1.90E+03	2.79E+02	8.63E+01

Sample ID:	590317	Sample Dates:	6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<9.04E-01	0.00E+00	9.04E-01
				I-131	<5.93E+00	0.00E+00	5.93E+00
				Cs-134	<6.94E+00	0.00E+00	6.94E+00
				Cs-137	<5.07E+00	0.00E+00	5.07E+00
				BaLa-140	<5.71E+00	0.00E+00	5.71E+00
				Be-7	<5.75E+01	0.00E+00	5.75E+01
				K-40	2.10E+03	2.95E+02	1.20E+02

Sample ID:	590618	Sample Dates:	7/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.92E-01	0.00E+00	7.92E-01
				I-131	<7.22E+00	0.00E+00	7.22E+00
				Cs-134	<9.95E+00	0.00E+00	9.95E+00
				Cs-137	<5.82E+00	0.00E+00	5.82E+00
				BaLa-140	<8.55E+00	0.00E+00	8.55E+00
				Be-7	<5.03E+01	0.00E+00	5.03E+01
				K-40	2.09E+03	2.91E+02	1.04E+02

Sample ID:	591415	Sample Dates:	7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.90E-01	0.00E+00	7.90E-01
				I-131	<7.80E+00	0.00E+00	7.80E+00
				Cs-134	<8.70E+00	0.00E+00	8.70E+00
				Cs-137	<7.69E+00	0.00E+00	7.69E+00
				BaLa-140	<5.84E+00	0.00E+00	5.84E+00
				Be-7	<6.57E+01	0.00E+00	6.57E+01
				K-40	1.98E+03	2.84E+02	1.32E+02

Sample ID:	591785	Sample Dates:	7/31/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.91E-01	0.00E+00	7.91E-01
				I-131	<5.03E+00	0.00E+00	5.03E+00
				Cs-134	<8.40E+00	0.00E+00	8.40E+00
				Cs-137	<6.65E+00	0.00E+00	6.65E+00
				BaLa-140	<5.72E+00	0.00E+00	5.72E+00
				Be-7	<6.18E+01	0.00E+00	6.18E+01
				K-40	1.82E+03	2.77E+02	1.63E+02

Sample ID:	592361	Sample Dates:	8/14/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<6.44E-01	0.00E+00	6.44E-01
				I-131	<8.86E+00	0.00E+00	8.86E+00
				Cs-134	<8.83E+00	0.00E+00	8.83E+00
				Cs-137	<7.86E+00	0.00E+00	7.86E+00
				BaLa-140	<7.47E+00	0.00E+00	7.47E+00
				Be-7	<7.35E+01	0.00E+00	7.35E+01
				K-40	1.86E+03	2.69E+02	8.14E+01

Sample ID:	592963	Sample Dates:	8/28/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<6.79E-01	0.00E+00	6.79E-01
				I-131	<6.84E+00	0.00E+00	6.84E+00
				Cs-134	<7.84E+00	0.00E+00	7.84E+00
				Cs-137	<7.79E+00	0.00E+00	7.79E+00
				BaLa-140	<7.83E+00	0.00E+00	7.83E+00
				Be-7	<5.17E+01	0.00E+00	5.17E+01
				K-40	1.85E+03	2.73E+02	1.04E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 102 [INDICATOR - W @ 2.82 miles]

Sample ID: 593526	Sample Dates: 9/11/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.42E-01	0.00E+00	7.42E-01
		I-131	<8.31E+00	0.00E+00	8.31E+00
		Cs-134	<7.74E+00	0.00E+00	7.74E+00
		Cs-137	<8.08E+00	0.00E+00	8.08E+00
		BaLa-140	<9.92E+00	0.00E+00	9.92E+00
		Be-7	<7.18E+01	0.00E+00	7.18E+01
		K-40	1.88E+03	2.72E+02	1.04E+02
Sample ID: 594243	Sample Dates: 9/25/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.57E-01	0.00E+00	7.57E-01
		I-131	<7.72E+00	0.00E+00	7.72E+00
		Cs-134	<7.65E+00	0.00E+00	7.65E+00
		Cs-137	<7.76E+00	0.00E+00	7.76E+00
		BaLa-140	<9.62E+00	0.00E+00	9.62E+00
		Be-7	<6.97E+01	0.00E+00	6.97E+01
		K-40	1.88E+03	2.89E+02	1.64E+02
Sample ID: 594969	Sample Dates: 10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.95E-01	0.00E+00	7.95E-01
		I-131	<6.54E+00	0.00E+00	6.54E+00
		Cs-134	<5.91E+00	0.00E+00	5.91E+00
		Cs-137	<5.82E+00	0.00E+00	5.82E+00
		BaLa-140	<7.73E+00	0.00E+00	7.73E+00
		Be-7	<6.04E+01	0.00E+00	6.04E+01
		K-40	1.93E+03	2.74E+02	7.92E+01
Sample ID: 596365	Sample Dates: 10/23/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.68E-01	0.00E+00	7.68E-01
		I-131	<8.45E+00	0.00E+00	8.45E+00
		Cs-134	<7.74E+00	0.00E+00	7.74E+00
		Cs-137	<6.83E+00	0.00E+00	6.83E+00
		BaLa-140	<7.63E+00	0.00E+00	7.63E+00
		Be-7	<6.23E+01	0.00E+00	6.23E+01
		K-40	1.84E+03	2.70E+02	1.21E+02
Sample ID: 597238	Sample Dates: 11/6/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.49E-01	0.00E+00	7.49E-01
		I-131	<6.37E+00	0.00E+00	6.37E+00
		Cs-134	<9.61E+00	0.00E+00	9.61E+00
		Cs-137	<5.66E+00	0.00E+00	5.66E+00
		BaLa-140	<5.97E+00	0.00E+00	5.97E+00
		Be-7	<4.81E+01	0.00E+00	4.81E+01
		K-40	2.05E+03	2.87E+02	8.66E+01
Sample ID: 598075	Sample Dates: 11/20/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.99E-01	0.00E+00	7.99E-01
		I-131	<5.36E+00	0.00E+00	5.36E+00
		Cs-134	<1.01E+01	0.00E+00	1.01E+01
		Cs-137	<8.56E+00	0.00E+00	8.56E+00
		BaLa-140	<9.79E+00	0.00E+00	9.79E+00
		Be-7	<5.13E+01	0.00E+00	5.13E+01
		K-40	2.04E+03	2.88E+02	8.36E+01
Sample Point 300 [CONTROL - WNW @ 12 miles]					
Sample ID: 580435	Sample Dates: 1/17/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.65E-01	0.00E+00	7.65E-01
		I-131	<7.28E+00	0.00E+00	7.28E+00
		Cs-134	<7.47E+00	0.00E+00	7.47E+00
		Cs-137	<5.66E+00	0.00E+00	5.66E+00
		BaLa-140	<5.89E+00	0.00E+00	5.89E+00
		Be-7	<5.56E+01	0.00E+00	5.56E+01
		K-40	1.51E+03	2.39E+02	1.07E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_BOTTOM Concentration (Activity): pCi/kg dry

Sample Point 52 [INDICATOR - S @ 3.8 miles]

Sample ID: 583175 Sample Dates: 1/9/2023 - 1/9/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<4.68E+01	0.00E+00	4.68E+01
Co-58	<5.57E+01	0.00E+00	5.57E+01
Fe-59	<1.09E+02	0.00E+00	1.09E+02
Co-60	<3.35E+01	0.00E+00	3.35E+01
Zn-65	<7.73E+01	0.00E+00	7.73E+01
Zr-95	<4.82E+01	0.00E+00	4.82E+01
Nb-95	<5.50E+01	0.00E+00	5.50E+01
I-131	<1.32E+02	0.00E+00	1.32E+02
Cs-134	<5.17E+01	0.00E+00	5.17E+01
Cs-137	<5.27E+01	0.00E+00	5.27E+01
Be-7	<4.78E+02	0.00E+00	4.78E+02
K-40	2.74E+03	7.76E+02	5.21E+02
Co-57	<3.21E+01	0.00E+00	3.21E+01
Mo-99	<1.81E+04	0.00E+00	1.81E+04
Ag-110M	<4.89E+01	0.00E+00	4.89E+01
Sb-122	<3.74E+03	0.00E+00	3.74E+03
Sb-125	<1.07E+02	0.00E+00	1.07E+02

Sample ID: 592439 Sample Dates: 7/17/2023 - 7/17/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<2.89E+01	0.00E+00	2.89E+01
Co-58	<2.96E+01	0.00E+00	2.96E+01
Fe-59	<7.28E+01	0.00E+00	7.28E+01
Co-60	<3.12E+01	0.00E+00	3.12E+01
Zn-65	<6.94E+01	0.00E+00	6.94E+01
Zr-95	<6.36E+01	0.00E+00	6.36E+01
Nb-95	<3.53E+01	0.00E+00	3.53E+01
I-131	<5.82E+01	0.00E+00	5.82E+01
Cs-134	<3.21E+01	0.00E+00	3.21E+01
Cs-137	<3.18E+01	0.00E+00	3.18E+01
Be-7	<3.28E+02	0.00E+00	3.28E+02
K-40	2.05E+03	5.87E+02	6.66E+02
Co-57	<2.10E+01	0.00E+00	2.10E+01
Mo-99	<2.89E+03	0.00E+00	2.89E+03
Ag-110M	<2.11E+01	0.00E+00	2.11E+01
Sb-122	<5.36E+02	0.00E+00	5.36E+02
Sb-125	<7.18E+01	0.00E+00	7.18E+01

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 26 [INDICATOR - S @ 4.6 miles]

Sample ID: 583176 Sample Dates: 1/9/2023 - 1/9/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<3.83E+01	0.00E+00	3.83E+01
Co-58	<5.96E+01	0.00E+00	5.96E+01
Fe-59	<1.04E+02	0.00E+00	1.04E+02
Co-60	<5.26E+01	0.00E+00	5.26E+01
Zn-65	<9.62E+01	0.00E+00	9.62E+01
Zr-95	<9.21E+01	0.00E+00	9.21E+01
Nb-95	<7.13E+01	0.00E+00	7.13E+01
I-131	<1.97E+02	0.00E+00	1.97E+02
Cs-134	<6.83E+01	0.00E+00	6.83E+01
Cs-137	<5.38E+01	0.00E+00	5.38E+01
Be-7	<4.87E+02	0.00E+00	4.87E+02
K-40	6.50E+03	1.25E+03	1.31E+02
Co-57	<4.21E+01	0.00E+00	4.21E+01
Mo-99	<2.38E+04	0.00E+00	2.38E+04
Ag-110M	<3.78E+01	0.00E+00	3.78E+01
Sb-122	<4.70E+03	0.00E+00	4.70E+03
Sb-125	<1.09E+02	0.00E+00	1.09E+02

Sample ID: 592440 Sample Dates: 7/17/2023 - 7/17/2023

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<3.53E+01	0.00E+00	3.53E+01
Co-58	<3.90E+01	0.00E+00	3.90E+01
Fe-59	<8.08E+01	0.00E+00	8.08E+01
Co-60	<3.80E+01	0.00E+00	3.80E+01
Zn-65	<8.09E+01	0.00E+00	8.09E+01
Zr-95	<6.84E+01	0.00E+00	6.84E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 26 [INDICATOR - S @ 4.6 miles]

Sample ID:	592440	Sample Dates:	7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<4.27E+01	0.00E+00	4.27E+01
				I-131	<7.41E+01	0.00E+00	7.41E+01
				Cs-134	<3.61E+01	0.00E+00	3.61E+01
				Cs-137	<4.22E+01	0.00E+00	4.22E+01
				Be-7	<3.23E+02	0.00E+00	3.23E+02
				K-40	7.64E+03	1.14E+03	5.78E+02
				Co-57	<2.88E+01	0.00E+00	2.88E+01
				Mo-99	<4.08E+03	0.00E+00	4.08E+03
				Ag-110M	<3.34E+01	0.00E+00	3.34E+01
				Sb-122	<5.75E+02	0.00E+00	5.75E+02
				Sb-125	<8.62E+01	0.00E+00	8.62E+01

Sample Point 41 [INDICATOR - S @ 3.8 miles]

Sample ID:	583177	Sample Dates:	1/9/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.66E+01	0.00E+00	6.66E+01
				Co-58	<7.08E+01	0.00E+00	7.08E+01
				Fe-59	<2.06E+02	0.00E+00	2.06E+02
				Co-60	<5.13E+01	0.00E+00	5.13E+01
				Zn-65	<9.35E+01	0.00E+00	9.35E+01
				Zr-95	<1.03E+02	0.00E+00	1.03E+02
				Nb-95	<8.41E+01	0.00E+00	8.41E+01
				I-131	<1.59E+02	0.00E+00	1.59E+02
				Cs-134	<4.75E+01	0.00E+00	4.75E+01
				Cs-137	<9.70E+01	0.00E+00	9.70E+01
				Be-7	<7.20E+02	0.00E+00	7.20E+02
				K-40	1.28E+04	2.04E+03	9.51E+02
				Co-57	<4.77E+01	0.00E+00	4.77E+01
				Mo-99	<2.87E+04	0.00E+00	2.87E+04
				Ag-110M	<5.30E+01	0.00E+00	5.30E+01
				Sb-122	<5.87E+03	0.00E+00	5.87E+03
				Sb-125	<1.78E+02	0.00E+00	1.78E+02

Sample ID:	592441	Sample Dates:	7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.52E+01	0.00E+00	5.52E+01
				Co-58	<4.62E+01	0.00E+00	4.62E+01
				Fe-59	<1.38E+02	0.00E+00	1.38E+02
				Co-60	<4.96E+01	0.00E+00	4.96E+01
				Zn-65	<1.24E+02	0.00E+00	1.24E+02
				Zr-95	<8.72E+01	0.00E+00	8.72E+01
				Nb-95	<7.50E+01	0.00E+00	7.50E+01
				I-131	<1.10E+02	0.00E+00	1.10E+02
				Cs-134	<6.69E+01	0.00E+00	6.69E+01
				Cs-137	<4.81E+01	0.00E+00	4.81E+01
				Be-7	<3.32E+02	0.00E+00	3.32E+02
				K-40	1.14E+04	1.75E+03	7.68E+02
				Co-57	<4.16E+01	0.00E+00	4.16E+01
				Mo-99	<5.10E+03	0.00E+00	5.10E+03
				Ag-110M	<4.86E+01	0.00E+00	4.86E+01
				Sb-122	<7.04E+02	0.00E+00	7.04E+02
				Sb-125	<1.23E+02	0.00E+00	1.23E+02

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	583552	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.08E+00	0.00E+00	3.08E+00
				Co-58	<3.82E+00	0.00E+00	3.82E+00
				Fe-59	<7.40E+00	0.00E+00	7.40E+00
				Co-60	<3.57E+00	0.00E+00	3.57E+00
				Zn-65	<7.92E+00	0.00E+00	7.92E+00
				Zr-95	<7.60E+00	0.00E+00	7.60E+00
				Nb-95	<5.16E+00	0.00E+00	5.16E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<3.27E+00	0.00E+00	3.27E+00
				Cs-137	<3.11E+00	0.00E+00	3.11E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 583552	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<1.08E+01	0.00E+00	1.08E+01
		Be-7	<2.76E+01	0.00E+00	2.76E+01
		K-40	<6.55E+01	0.00E+00	6.55E+01
		H3SW	4.35E+03	2.16E+02	1.94E+02
Sample ID: 585619	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.88E+00	0.00E+00	2.88E+00
		Co-58	<3.34E+00	0.00E+00	3.34E+00
		Fe-59	<7.61E+00	0.00E+00	7.61E+00
		Co-60	<4.19E+00	0.00E+00	4.19E+00
		Zn-65	<9.77E+00	0.00E+00	9.77E+00
		Zr-95	<5.67E+00	0.00E+00	5.67E+00
		Nb-95	<4.06E+00	0.00E+00	4.06E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.19E+00	0.00E+00	3.19E+00
		Cs-137	<2.92E+00	0.00E+00	2.92E+00
		BaLa-140	<9.66E+00	0.00E+00	9.66E+00
		Be-7	<2.73E+01	0.00E+00	2.73E+01
		K-40	<5.61E+01	0.00E+00	5.61E+01
		H3SW	4.27E+03	2.24E+02	1.96E+02
Sample ID: 586991	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.57E+00	0.00E+00	3.57E+00
		Co-58	<4.49E+00	0.00E+00	4.49E+00
		Fe-59	<8.95E+00	0.00E+00	8.95E+00
		Co-60	<4.51E+00	0.00E+00	4.51E+00
		Zn-65	<4.88E+00	0.00E+00	4.88E+00
		Zr-95	<6.72E+00	0.00E+00	6.72E+00
		Nb-95	<5.23E+00	0.00E+00	5.23E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<5.47E+00	0.00E+00	5.47E+00
		Cs-137	<3.78E+00	0.00E+00	3.78E+00
		BaLa-140	<7.38E+00	0.00E+00	7.38E+00
		Be-7	<3.78E+01	0.00E+00	3.78E+01
		K-40	6.84E+01	3.83E+01	5.01E+01
		H3SW	4.03E+03	2.10E+02	1.90E+02
Sample ID: 588362	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<3.75E+00	0.00E+00	3.75E+00
		Fe-59	<6.12E+00	0.00E+00	6.12E+00
		Co-60	<2.76E+00	0.00E+00	2.76E+00
		Zn-65	<9.23E+00	0.00E+00	9.23E+00
		Zr-95	<8.99E+00	0.00E+00	8.99E+00
		Nb-95	<4.22E+00	0.00E+00	4.22E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.41E+00	0.00E+00	3.41E+00
		Cs-137	<3.79E+00	0.00E+00	3.79E+00
		BaLa-140	<8.62E+00	0.00E+00	8.62E+00
		Be-7	<3.58E+01	0.00E+00	3.58E+01
		K-40	1.03E+02	3.91E+01	4.06E+01
		H3SW	3.54E+03	2.01E+02	1.92E+02
Sample ID: 590083	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.69E+00	0.00E+00	2.69E+00
		Co-58	<3.61E+00	0.00E+00	3.61E+00
		Fe-59	<8.25E+00	0.00E+00	8.25E+00
		Co-60	<3.98E+00	0.00E+00	3.98E+00
		Zn-65	<6.21E+00	0.00E+00	6.21E+00
		Zr-95	<6.42E+00	0.00E+00	6.42E+00
		Nb-95	<5.04E+00	0.00E+00	5.04E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.35E+00	0.00E+00	4.35E+00
		Cs-137	<3.39E+00	0.00E+00	3.39E+00
		BaLa-140	<9.39E+00	0.00E+00	9.39E+00
		Be-7	<3.47E+01	0.00E+00	3.47E+01
		K-40	<5.56E+01	0.00E+00	5.56E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	590083	Sample Dates:	4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	3.24E+03	2.06E+02	2.05E+02
Sample ID:	591258	Sample Dates:	5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.63E+00	0.00E+00	2.63E+00
				Co-58	<2.93E+00	0.00E+00	2.93E+00
				Fe-59	<8.58E+00	0.00E+00	8.58E+00
				Co-60	<4.33E+00	0.00E+00	4.33E+00
				Zn-65	<6.47E+00	0.00E+00	6.47E+00
				Zr-95	<6.14E+00	0.00E+00	6.14E+00
				Nb-95	<3.50E+00	0.00E+00	3.50E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<3.90E+00	0.00E+00	3.90E+00
				Cs-137	<2.18E+00	0.00E+00	2.18E+00
				BaLa-140	<7.44E+00	0.00E+00	7.44E+00
				Be-7	<2.34E+01	0.00E+00	2.34E+01
				K-40	2.51E+01	2.17E+01	3.11E+01
				H3SW	3.79E+03	2.04E+02	1.86E+02
Sample ID:	592248	Sample Dates:	6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.69E+00	0.00E+00	3.69E+00
				Co-58	<3.30E+00	0.00E+00	3.30E+00
				Fe-59	<5.67E+00	0.00E+00	5.67E+00
				Co-60	<3.59E+00	0.00E+00	3.59E+00
				Zn-65	<6.60E+00	0.00E+00	6.60E+00
				Zr-95	<7.48E+00	0.00E+00	7.48E+00
				Nb-95	<4.87E+00	0.00E+00	4.87E+00
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<3.71E+00	0.00E+00	3.71E+00
				Cs-137	<3.24E+00	0.00E+00	3.24E+00
				BaLa-140	<9.40E+00	0.00E+00	9.40E+00
				Be-7	<3.11E+01	0.00E+00	3.11E+01
				K-40	5.88E+01	3.01E+01	3.61E+01
				H3SW	3.35E+03	1.89E+02	1.79E+02
Sample ID:	593624	Sample Dates:	7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.05E+00	0.00E+00	4.05E+00
				Co-58	<5.06E+00	0.00E+00	5.06E+00
				Fe-59	<8.71E+00	0.00E+00	8.71E+00
				Co-60	<2.98E+00	0.00E+00	2.98E+00
				Zn-65	<8.11E+00	0.00E+00	8.11E+00
				Zr-95	<6.16E+00	0.00E+00	6.16E+00
				Nb-95	<5.07E+00	0.00E+00	5.07E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<4.02E+00	0.00E+00	4.02E+00
				Cs-137	<3.02E+00	0.00E+00	3.02E+00
				BaLa-140	<8.29E+00	0.00E+00	8.29E+00
				Be-7	<3.24E+01	0.00E+00	3.24E+01
				K-40	4.59E+01	4.44E+01	7.03E+01
				H3SW	3.31E+03	2.07E+02	2.04E+02
Sample ID:	595057	Sample Dates:	8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.21E+00	0.00E+00	3.21E+00
				Co-58	<3.18E+00	0.00E+00	3.18E+00
				Fe-59	<6.85E+00	0.00E+00	6.85E+00
				Co-60	<2.63E+00	0.00E+00	2.63E+00
				Zn-65	<6.15E+00	0.00E+00	6.15E+00
				Zr-95	<5.89E+00	0.00E+00	5.89E+00
				Nb-95	<4.13E+00	0.00E+00	4.13E+00
				I-131	<1.26E+01	0.00E+00	1.26E+01
				Cs-134	<3.29E+00	0.00E+00	3.29E+00
				Cs-137	<3.37E+00	0.00E+00	3.37E+00
				BaLa-140	<6.26E+00	0.00E+00	6.26E+00
				Be-7	<2.47E+01	0.00E+00	2.47E+01
				K-40	5.75E+01	3.59E+01	5.36E+01
				H3SW	3.77E+03	2.15E+02	2.01E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 597369	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.23E+00	0.00E+00	3.23E+00
		Co-58	<3.39E+00	0.00E+00	3.39E+00
		Fe-59	<5.43E+00	0.00E+00	5.43E+00
		Co-60	<3.28E+00	0.00E+00	3.28E+00
		Zn-65	<6.95E+00	0.00E+00	6.95E+00
		Zr-95	<7.09E+00	0.00E+00	7.09E+00
		Nb-95	<3.95E+00	0.00E+00	3.95E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.37E+00	0.00E+00	3.37E+00
		Cs-137	<3.38E+00	0.00E+00	3.38E+00
		BaLa-140	<6.36E+00	0.00E+00	6.36E+00
		Be-7	<2.59E+01	0.00E+00	2.59E+01
		K-40	8.99E+01	4.23E+01	5.78E+01
		H3SW	4.09E+03	2.18E+02	1.94E+02

Sample ID: 599120	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<3.66E+00	0.00E+00	3.66E+00
		Fe-59	<6.33E+00	0.00E+00	6.33E+00
		Co-60	<3.60E+00	0.00E+00	3.60E+00
		Zn-65	<5.89E+00	0.00E+00	5.89E+00
		Zr-95	<6.50E+00	0.00E+00	6.50E+00
		Nb-95	<4.38E+00	0.00E+00	4.38E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.11E+00	0.00E+00	4.11E+00
		Cs-137	<3.49E+00	0.00E+00	3.49E+00
		BaLa-140	<6.83E+00	0.00E+00	6.83E+00
		Be-7	<3.49E+01	0.00E+00	3.49E+01
		K-40	1.26E+02	3.51E+01	6.09E+00
		H3SW	4.07E+03	2.04E+02	1.80E+02

Sample ID: 601340	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.12E+00	0.00E+00	3.12E+00
		Co-58	<2.46E+00	0.00E+00	2.46E+00
		Fe-59	<7.08E+00	0.00E+00	7.08E+00
		Co-60	<2.91E+00	0.00E+00	2.91E+00
		Zn-65	<5.69E+00	0.00E+00	5.69E+00
		Zr-95	<6.04E+00	0.00E+00	6.04E+00
		Nb-95	<4.19E+00	0.00E+00	4.19E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.26E+00	0.00E+00	3.26E+00
		Cs-137	<2.94E+00	0.00E+00	2.94E+00
		BaLa-140	<9.11E+00	0.00E+00	9.11E+00
		Be-7	<2.61E+01	0.00E+00	2.61E+01
		K-40	8.78E+01	3.79E+01	4.91E+01
		H3SW	4.87E+03	2.43E+02	2.18E+02

Sample ID: 602772	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.76E+00	0.00E+00	1.76E+00
		Co-58	<2.34E+00	0.00E+00	2.34E+00
		Fe-59	<4.84E+00	0.00E+00	4.84E+00
		Co-60	<2.02E+00	0.00E+00	2.02E+00
		Zn-65	<4.29E+00	0.00E+00	4.29E+00
		Zr-95	<4.78E+00	0.00E+00	4.78E+00
		Nb-95	<2.67E+00	0.00E+00	2.67E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<2.03E+00	0.00E+00	2.03E+00
		Cs-137	<1.75E+00	0.00E+00	1.75E+00
		BaLa-140	<6.76E+00	0.00E+00	6.76E+00
		Be-7	<1.80E+01	0.00E+00	1.80E+01
		K-40	1.06E+02	2.78E+01	3.26E+01
		H3SW	4.87E+03	2.35E+02	2.08E+02

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 583553	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.73E+00	0.00E+00	3.73E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 583553	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<2.37E+00	0.00E+00	2.37E+00
		Fe-59	<8.69E+00	0.00E+00	8.69E+00
		Co-60	<3.19E+00	0.00E+00	3.19E+00
		Zn-65	<8.50E+00	0.00E+00	8.50E+00
		Zr-95	<6.19E+00	0.00E+00	6.19E+00
		Nb-95	<5.25E+00	0.00E+00	5.25E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.83E+00	0.00E+00	3.83E+00
		Cs-137	<4.33E+00	0.00E+00	4.33E+00
		BaLa-140	<1.09E+01	0.00E+00	1.09E+01
		Be-7	<4.21E+01	0.00E+00	4.21E+01
		K-40	7.57E+01	4.22E+01	5.78E+01
Sample ID: 585620	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.28E+00	0.00E+00	3.28E+00
		Co-58	<4.00E+00	0.00E+00	4.00E+00
		Fe-59	<6.92E+00	0.00E+00	6.92E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<5.55E+00	0.00E+00	5.55E+00
		Zr-95	<6.46E+00	0.00E+00	6.46E+00
		Nb-95	<4.86E+00	0.00E+00	4.86E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.44E+00	0.00E+00	3.44E+00
		Cs-137	<3.89E+00	0.00E+00	3.89E+00
		BaLa-140	<6.77E+00	0.00E+00	6.77E+00
		Be-7	<3.29E+01	0.00E+00	3.29E+01
		K-40	6.06E+01	3.04E+01	3.90E+01
Sample ID: 586992	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.46E+00	0.00E+00	2.46E+00
		Co-58	<3.52E+00	0.00E+00	3.52E+00
		Fe-59	<7.71E+00	0.00E+00	7.71E+00
		Co-60	<2.82E+00	0.00E+00	2.82E+00
		Zn-65	<6.83E+00	0.00E+00	6.83E+00
		Zr-95	<5.46E+00	0.00E+00	5.46E+00
		Nb-95	<5.02E+00	0.00E+00	5.02E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<2.83E+00	0.00E+00	2.83E+00
		BaLa-140	<9.27E+00	0.00E+00	9.27E+00
		Be-7	<2.64E+01	0.00E+00	2.64E+01
		K-40	<7.57E+01	0.00E+00	7.57E+01
Sample ID: 585984	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.2E+01	0.00E+00	1.93E+02
Sample ID: 588363	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.52E+00	0.00E+00	3.52E+00
		Co-58	<3.91E+00	0.00E+00	3.91E+00
		Fe-59	<9.34E+00	0.00E+00	9.34E+00
		Co-60	<4.07E+00	0.00E+00	4.07E+00
		Zn-65	<7.03E+00	0.00E+00	7.03E+00
		Zr-95	<8.01E+00	0.00E+00	8.01E+00
		Nb-95	<4.92E+00	0.00E+00	4.92E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.73E+00	0.00E+00	3.73E+00
		Cs-137	<3.54E+00	0.00E+00	3.54E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<3.71E+01	0.00E+00	3.71E+01
		K-40	6.71E+01	3.32E+01	3.81E+01
Sample ID: 590084	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.37E+00	0.00E+00	3.37E+00
		Co-58	<3.75E+00	0.00E+00	3.75E+00
		Fe-59	<8.56E+00	0.00E+00	8.56E+00
		Co-60	<4.32E+00	0.00E+00	4.32E+00
		Zn-65	<7.57E+00	0.00E+00	7.57E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 590084	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zr-95	<5.74E+00	0.00E+00	5.74E+00
		Nb-95	<5.44E+00	0.00E+00	5.44E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.70E+00	0.00E+00	4.70E+00
		Cs-137	<4.31E+00	0.00E+00	4.31E+00
		BaLa-140	<7.84E+00	0.00E+00	7.84E+00
		Be-7	<3.25E+01	0.00E+00	3.25E+01
		K-40	8.77E+01	3.30E+01	2.64E+01
Sample ID: 591259	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.28E+00	0.00E+00	3.28E+00
		Co-58	<2.96E+00	0.00E+00	2.96E+00
		Fe-59	<7.26E+00	0.00E+00	7.26E+00
		Co-60	<3.00E+00	0.00E+00	3.00E+00
		Zn-65	<5.96E+00	0.00E+00	5.96E+00
		Zr-95	<6.22E+00	0.00E+00	6.22E+00
		Nb-95	<4.67E+00	0.00E+00	4.67E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.56E+00	0.00E+00	3.56E+00
		Cs-137	<3.86E+00	0.00E+00	3.86E+00
		BaLa-140	<7.64E+00	0.00E+00	7.64E+00
		Be-7	<2.63E+01	0.00E+00	2.63E+01
		K-40	8.27E+01	3.05E+01	3.42E+01
Sample ID: 590601	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.29E+01	0.00E+00	1.80E+02
Sample ID: 592249	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.02E+00	0.00E+00	3.02E+00
		Co-58	<2.19E+00	0.00E+00	2.19E+00
		Fe-59	<9.15E+00	0.00E+00	9.15E+00
		Co-60	<3.19E+00	0.00E+00	3.19E+00
		Zn-65	<9.44E+00	0.00E+00	9.44E+00
		Zr-95	<5.79E+00	0.00E+00	5.79E+00
		Nb-95	<3.55E+00	0.00E+00	3.55E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<3.83E+00	0.00E+00	3.83E+00
		Cs-137	<2.85E+00	0.00E+00	2.85E+00
		BaLa-140	<5.24E+00	0.00E+00	5.24E+00
		Be-7	<3.66E+01	0.00E+00	3.66E+01
		K-40	1.09E+02	4.11E+01	5.04E+01
Sample ID: 593625	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.71E+00	0.00E+00	2.71E+00
		Co-58	<3.02E+00	0.00E+00	3.02E+00
		Fe-59	<5.38E+00	0.00E+00	5.38E+00
		Co-60	<2.73E+00	0.00E+00	2.73E+00
		Zn-65	<6.05E+00	0.00E+00	6.05E+00
		Zr-95	<5.36E+00	0.00E+00	5.36E+00
		Nb-95	<4.23E+00	0.00E+00	4.23E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<2.56E+00	0.00E+00	2.56E+00
		BaLa-140	<6.12E+00	0.00E+00	6.12E+00
		Be-7	<2.66E+01	0.00E+00	2.66E+01
		K-40	9.77E+01	3.47E+01	3.94E+01
Sample ID: 595058	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.17E+00	0.00E+00	3.17E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<7.51E+00	0.00E+00	7.51E+00
		Co-60	<3.20E+00	0.00E+00	3.20E+00
		Zn-65	<6.54E+00	0.00E+00	6.54E+00
		Zr-95	<5.59E+00	0.00E+00	5.59E+00
		Nb-95	<3.66E+00	0.00E+00	3.66E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<2.85E+00	0.00E+00	2.85E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 595058	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<3.08E+00	0.00E+00	3.08E+00
		BaLa-140	<7.19E+00	0.00E+00	7.19E+00
		Be-7	<2.84E+01	0.00E+00	2.84E+01
		K-40	1.18E+02	4.09E+01	5.03E+01
Sample ID: 594959	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.37E+01	0.00E+00	1.95E+02
Sample ID: 597370	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.99E+00	0.00E+00	2.99E+00
		Co-58	<4.45E+00	0.00E+00	4.45E+00
		Fe-59	<7.42E+00	0.00E+00	7.42E+00
		Co-60	<3.53E+00	0.00E+00	3.53E+00
		Zn-65	<6.52E+00	0.00E+00	6.52E+00
		Zr-95	<7.88E+00	0.00E+00	7.88E+00
		Nb-95	<3.51E+00	0.00E+00	3.51E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<4.09E+00	0.00E+00	4.09E+00
		BaLa-140	<8.19E+00	0.00E+00	8.19E+00
		Be-7	<2.83E+01	0.00E+00	2.83E+01
		K-40	6.69E+01	4.27E+01	6.21E+01
Sample ID: 599121	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.90E+00	0.00E+00	3.90E+00
		Co-58	<3.32E+00	0.00E+00	3.32E+00
		Fe-59	<6.54E+00	0.00E+00	6.54E+00
		Co-60	<3.55E+00	0.00E+00	3.55E+00
		Zn-65	<8.08E+00	0.00E+00	8.08E+00
		Zr-95	<4.47E+00	0.00E+00	4.47E+00
		Nb-95	<4.11E+00	0.00E+00	4.11E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.07E+00	0.00E+00	4.07E+00
		Cs-137	<3.57E+00	0.00E+00	3.57E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	8.15E+01	3.29E+01	3.16E+01
Sample ID: 601341	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<2.93E+00	0.00E+00	2.93E+00
		Fe-59	<7.64E+00	0.00E+00	7.64E+00
		Co-60	<2.45E+00	0.00E+00	2.45E+00
		Zn-65	<6.02E+00	0.00E+00	6.02E+00
		Zr-95	<5.67E+00	0.00E+00	5.67E+00
		Nb-95	<3.54E+00	0.00E+00	3.54E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.16E+00	0.00E+00	2.16E+00
		Cs-137	<2.10E+00	0.00E+00	2.10E+00
		BaLa-140	<7.75E+00	0.00E+00	7.75E+00
		Be-7	<2.76E+01	0.00E+00	2.76E+01
		K-40	1.01E+02	3.64E+01	4.38E+01
Sample ID: 601690	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.1E+01	0.00E+00	2.00E+02
Sample ID: 602773	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.36E+00	0.00E+00	2.36E+00
		Co-58	<2.84E+00	0.00E+00	2.84E+00
		Fe-59	<4.92E+00	0.00E+00	4.92E+00
		Co-60	<2.03E+00	0.00E+00	2.03E+00
		Zn-65	<5.07E+00	0.00E+00	5.07E+00
		Zr-95	<5.19E+00	0.00E+00	5.19E+00
		Nb-95	<3.16E+00	0.00E+00	3.16E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<2.60E+00	0.00E+00	2.60E+00
		Cs-137	<1.93E+00	0.00E+00	1.93E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID:	602773	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				BaLa-140	<5.47E+00	0.00E+00	5.47E+00
				Be-7	<2.14E+01	0.00E+00	2.14E+01
				K-40	1.10E+02	2.55E+01	2.08E+01

Sample Point 43 [CONTROL - SW @ 8.5 miles]

Sample ID:	583554	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.22E+00	0.00E+00	3.22E+00
				Co-58	<3.56E+00	0.00E+00	3.56E+00
				Fe-59	<6.12E+00	0.00E+00	6.12E+00
				Co-60	<3.12E+00	0.00E+00	3.12E+00
				Zn-65	<5.34E+00	0.00E+00	5.34E+00
				Zr-95	<5.88E+00	0.00E+00	5.88E+00
				Nb-95	<5.40E+00	0.00E+00	5.40E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<4.01E+00	0.00E+00	4.01E+00
				Cs-137	<3.93E+00	0.00E+00	3.93E+00
				BaLa-140	<9.51E+00	0.00E+00	9.51E+00
				Be-7	<3.17E+01	0.00E+00	3.17E+01
				K-40	8.39E+01	3.64E+01	4.43E+01

Sample ID:	585621	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.90E+00	0.00E+00	2.90E+00
				Co-58	<3.76E+00	0.00E+00	3.76E+00
				Fe-59	<7.29E+00	0.00E+00	7.29E+00
				Co-60	<1.71E+00	0.00E+00	1.71E+00
				Zn-65	<6.79E+00	0.00E+00	6.79E+00
				Zr-95	<5.71E+00	0.00E+00	5.71E+00
				Nb-95	<5.11E+00	0.00E+00	5.11E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<4.33E+00	0.00E+00	4.33E+00
				Cs-137	<3.07E+00	0.00E+00	3.07E+00
				BaLa-140	<6.02E+00	0.00E+00	6.02E+00
				Be-7	<3.24E+01	0.00E+00	3.24E+01
				K-40	1.22E+02	3.68E+01	2.53E+01

Sample ID:	586993	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.36E+00	0.00E+00	3.36E+00
				Co-58	<3.41E+00	0.00E+00	3.41E+00
				Fe-59	<6.93E+00	0.00E+00	6.93E+00
				Co-60	<3.49E+00	0.00E+00	3.49E+00
				Zn-65	<5.82E+00	0.00E+00	5.82E+00
				Zr-95	<6.05E+00	0.00E+00	6.05E+00
				Nb-95	<4.42E+00	0.00E+00	4.42E+00
				I-131	<1.22E+01	0.00E+00	1.22E+01
				Cs-134	<3.05E+00	0.00E+00	3.05E+00
				Cs-137	<3.67E+00	0.00E+00	3.67E+00
				BaLa-140	<6.27E+00	0.00E+00	6.27E+00
				Be-7	<3.11E+01	0.00E+00	3.11E+01
				K-40	1.06E+02	3.91E+01	4.52E+01

Sample ID:	585985	Sample Dates:	12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.96E+00	0.00E+00	1.93E+02

Sample ID:	588364	Sample Dates:	3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.80E+00	0.00E+00	3.80E+00
				Co-58	<3.20E+00	0.00E+00	3.20E+00
				Fe-59	<6.57E+00	0.00E+00	6.57E+00
				Co-60	<3.32E+00	0.00E+00	3.32E+00
				Zn-65	<6.47E+00	0.00E+00	6.47E+00
				Zr-95	<4.90E+00	0.00E+00	4.90E+00
				Nb-95	<3.89E+00	0.00E+00	3.89E+00
				I-131	<1.28E+01	0.00E+00	1.28E+01
				Cs-134	<3.80E+00	0.00E+00	3.80E+00
				Cs-137	<3.23E+00	0.00E+00	3.23E+00
				BaLa-140	<5.70E+00	0.00E+00	5.70E+00
				Be-7	<3.61E+01	0.00E+00	3.61E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.5 miles]

Sample ID:	588364	Sample Dates:	3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	8.66E+01	4.45E+01	6.23E+01
Sample ID:	590085	Sample Dates:	4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.09E+00	0.00E+00	3.09E+00
				Co-58	<2.72E+00	0.00E+00	2.72E+00
				Fe-59	<6.47E+00	0.00E+00	6.47E+00
				Co-60	<3.26E+00	0.00E+00	3.26E+00
				Zn-65	<7.38E+00	0.00E+00	7.38E+00
				Zr-95	<5.51E+00	0.00E+00	5.51E+00
				Nb-95	<4.43E+00	0.00E+00	4.43E+00
				I-131	<1.28E+01	0.00E+00	1.28E+01
				Cs-134	<3.54E+00	0.00E+00	3.54E+00
				Cs-137	<3.09E+00	0.00E+00	3.09E+00
				BaLa-140	<6.93E+00	0.00E+00	6.93E+00
				Be-7	<3.26E+01	0.00E+00	3.26E+01
				K-40	7.94E+01	3.70E+01	4.86E+01
Sample ID:	591260	Sample Dates:	5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.49E+00	0.00E+00	3.49E+00
				Co-58	<2.80E+00	0.00E+00	2.80E+00
				Fe-59	<7.52E+00	0.00E+00	7.52E+00
				Co-60	<4.52E+00	0.00E+00	4.52E+00
				Zn-65	<5.31E+00	0.00E+00	5.31E+00
				Zr-95	<6.39E+00	0.00E+00	6.39E+00
				Nb-95	<4.49E+00	0.00E+00	4.49E+00
				I-131	<1.32E+01	0.00E+00	1.32E+01
				Cs-134	<3.87E+00	0.00E+00	3.87E+00
				Cs-137	<3.89E+00	0.00E+00	3.89E+00
				BaLa-140	<8.03E+00	0.00E+00	8.03E+00
				Be-7	<2.72E+01	0.00E+00	2.72E+01
				K-40	1.05E+02	4.34E+01	5.35E+01
Sample ID:	590602	Sample Dates:	4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.4E+00	0.00E+00	1.80E+02
Sample ID:	592250	Sample Dates:	6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.79E+00	0.00E+00	3.79E+00
				Co-58	<3.95E+00	0.00E+00	3.95E+00
				Fe-59	<7.96E+00	0.00E+00	7.96E+00
				Co-60	<3.60E+00	0.00E+00	3.60E+00
				Zn-65	<6.65E+00	0.00E+00	6.65E+00
				Zr-95	<7.48E+00	0.00E+00	7.48E+00
				Nb-95	<5.26E+00	0.00E+00	5.26E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<5.45E+00	0.00E+00	5.45E+00
				Cs-137	<4.09E+00	0.00E+00	4.09E+00
				BaLa-140	<8.66E+00	0.00E+00	8.66E+00
				Be-7	<3.45E+01	0.00E+00	3.45E+01
				K-40	9.16E+01	4.40E+01	5.15E+01
Sample ID:	593626	Sample Dates:	7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.96E+00	0.00E+00	2.96E+00
				Co-58	<3.85E+00	0.00E+00	3.85E+00
				Fe-59	<8.79E+00	0.00E+00	8.79E+00
				Co-60	<3.93E+00	0.00E+00	3.93E+00
				Zn-65	<7.89E+00	0.00E+00	7.89E+00
				Zr-95	<5.56E+00	0.00E+00	5.56E+00
				Nb-95	<5.56E+00	0.00E+00	5.56E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<3.43E+00	0.00E+00	3.43E+00
				Cs-137	<3.36E+00	0.00E+00	3.36E+00
				BaLa-140	<8.61E+00	0.00E+00	8.61E+00
				Be-7	<3.69E+01	0.00E+00	3.69E+01
				K-40	8.52E+01	3.83E+01	4.76E+01
Sample ID:	595059	Sample Dates:	8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.05E+00	0.00E+00	3.05E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.5 miles]

Sample ID: 595059	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<3.50E+00	0.00E+00	3.50E+00
		Fe-59	<7.60E+00	0.00E+00	7.60E+00
		Co-60	<2.18E+00	0.00E+00	2.18E+00
		Zn-65	<5.61E+00	0.00E+00	5.61E+00
		Zr-95	<5.84E+00	0.00E+00	5.84E+00
		Nb-95	<4.87E+00	0.00E+00	4.87E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<2.66E+00	0.00E+00	2.66E+00
		Cs-137	<3.60E+00	0.00E+00	3.60E+00
		BaLa-140	<8.71E+00	0.00E+00	8.71E+00
		Be-7	<2.94E+01	0.00E+00	2.94E+01
		K-40	8.96E+01	3.63E+01	4.39E+01
Sample ID: 594960	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.48E+01	0.00E+00	1.94E+02
Sample ID: 597371	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.71E+00	0.00E+00	3.71E+00
		Co-58	<3.33E+00	0.00E+00	3.33E+00
		Fe-59	<9.77E+00	0.00E+00	9.77E+00
		Co-60	<3.76E+00	0.00E+00	3.76E+00
		Zn-65	<8.35E+00	0.00E+00	8.35E+00
		Zr-95	<7.60E+00	0.00E+00	7.60E+00
		Nb-95	<5.63E+00	0.00E+00	5.63E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<5.18E+00	0.00E+00	5.18E+00
		Cs-137	<3.47E+00	0.00E+00	3.47E+00
		BaLa-140	<8.38E+00	0.00E+00	8.38E+00
		Be-7	<3.63E+01	0.00E+00	3.63E+01
		K-40	1.06E+02	4.49E+01	5.27E+01
Sample ID: 599122	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<4.06E+00	0.00E+00	4.06E+00
		Fe-59	<7.62E+00	0.00E+00	7.62E+00
		Co-60	<3.19E+00	0.00E+00	3.19E+00
		Zn-65	<6.72E+00	0.00E+00	6.72E+00
		Zr-95	<8.31E+00	0.00E+00	8.31E+00
		Nb-95	<4.83E+00	0.00E+00	4.83E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.41E+00	0.00E+00	4.41E+00
		Cs-137	<3.85E+00	0.00E+00	3.85E+00
		BaLa-140	<9.53E+00	0.00E+00	9.53E+00
		Be-7	<2.87E+01	0.00E+00	2.87E+01
		K-40	<7.92E+01	0.00E+00	7.92E+01
Sample ID: 601342	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.30E+00	0.00E+00	2.30E+00
		Co-58	<2.42E+00	0.00E+00	2.42E+00
		Fe-59	<4.74E+00	0.00E+00	4.74E+00
		Co-60	<2.06E+00	0.00E+00	2.06E+00
		Zn-65	<3.33E+00	0.00E+00	3.33E+00
		Zr-95	<4.27E+00	0.00E+00	4.27E+00
		Nb-95	<2.59E+00	0.00E+00	2.59E+00
		I-131	<9.30E+00	0.00E+00	9.30E+00
		Cs-134	<2.09E+00	0.00E+00	2.09E+00
		Cs-137	<2.10E+00	0.00E+00	2.10E+00
		BaLa-140	<6.23E+00	0.00E+00	6.23E+00
		Be-7	<1.92E+01	0.00E+00	1.92E+01
		K-40	7.85E+01	2.14E+01	2.18E+01
Sample ID: 601691	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-5.1E+01	0.00E+00	2.00E+02
Sample ID: 602774	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.83E+00	0.00E+00	1.83E+00
		Co-58	<2.18E+00	0.00E+00	2.18E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.5 miles]

Sample ID:	602774	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Fe-59	<4.06E+00	0.00E+00	4.06E+00
				Co-60	<1.74E+00	0.00E+00	1.74E+00
				Zn-65	<4.01E+00	0.00E+00	4.01E+00
				Zr-95	<4.84E+00	0.00E+00	4.84E+00
				Nb-95	<3.19E+00	0.00E+00	3.19E+00
				I-131	<1.15E+01	0.00E+00	1.15E+01
				Cs-134	<2.02E+00	0.00E+00	2.02E+00
				Cs-137	<2.21E+00	0.00E+00	2.21E+00
				BaLa-140	<5.45E+00	0.00E+00	5.45E+00
				Be-7	<2.06E+01	0.00E+00	2.06E+01
				K-40	1.19E+02	2.48E+01	2.11E+01

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 1 [INDICATOR - N @ 2.6 miles]

TLD RING TLD_INNER

Sample ID:	586356	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.37
Sample ID:	590951	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.63
Sample ID:	595343	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	14.18
Sample ID:	601976	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	18.17

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

TLD RING TLD_INNER

Sample ID:	586364	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.21
Sample ID:	590959	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.10
Sample ID:	595351	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.60
Sample ID:	601984	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.82

Sample Point 3 [INDICATOR - ENE @ 1.9 miles]

TLD RING TLD_SPEC

Sample ID:	586375	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.20
Sample ID:	590970	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.31
Sample ID:	595362	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.12
Sample ID:	601995	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.58

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

TLD RING TLD_SPEC

Sample ID:	586379	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.63
Sample ID:	590974	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.57
Sample ID:	595366	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.55
Sample ID:	601999	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.79

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

TLD RING TLD_CTRL

Sample ID:	586382	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	16.00
Sample ID:	590977	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	15.06
Sample ID:	595369	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	15.26
Sample ID:	602002	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	17.64

Sample Point 6 [INDICATOR - ENE @ 0.8 miles]

TLD RING TLD_INNER

Sample ID:	586385	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.33
Sample ID:	590980	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.46
Sample ID:	595372	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.45
Sample ID:	602005	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	17.52

Sample Point 7 [INDICATOR - E @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	586387	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.77
Sample ID:	590982	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.11
Sample ID:	595374	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.96
Sample ID:	602007	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	16.89

Sample Point 8 [INDICATOR - ESE @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	586392	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.35
Sample ID:	590987	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.25
Sample ID:	595379	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.82
Sample ID:	602012	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.83

Sample Point 9 [INDICATOR - SE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	586393	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	11.74
Sample ID:	590988	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	10.55
Sample ID:	595380	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.16
Sample ID:	602013	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.81

Sample Point 10 [INDICATOR - SSE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	586357	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.86

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 10 [INDICATOR - SSE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	590952	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	10.63
Sample ID:	595344	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.22
Sample ID:	601977	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.85

Sample Point 11 [INDICATOR - S @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	586358	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.61
Sample ID:	590953	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.88
Sample ID:	595345	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.75
Sample ID:	601978	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.42

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	586359	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.13
Sample ID:	590954	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.24
Sample ID:	595346	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.43
Sample ID:	601979	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.85

Sample Point 13 [INDICATOR - WSW @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	586360	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.24
Sample ID:	590955	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.38
Sample ID:	595347	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.36
Sample ID:	601980	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.24

Sample Point 14 [INDICATOR - W @ 1.5 miles]

TLD RING TLD_INNER

Sample ID:	586361	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.63
Sample ID:	590956	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.91
Sample ID:	595348	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.74
Sample ID:	601981	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	18.09

Sample Point 15 [INDICATOR - W @ 2 miles]

TLD RING TLD_INNER

Sample ID:	586362	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.69
Sample ID:	590957	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	9.74

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 15 [INDICATOR - W @ 2 miles]

TLD RING TLD_INNER

Sample ID:	595349	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.84
Sample ID:	601982	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	12.79

Sample Point 19 [INDICATOR - NNE @ 4.95 miles]

TLD RING TLD_OUTER

Sample ID:	586363	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.76
Sample ID:	590958	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.02
Sample ID:	595350	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.91
Sample ID:	601983	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	18.80

Sample Point 20 [INDICATOR - NE @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	586365	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	17.40
Sample ID:	590960	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	15.63
Sample ID:	595352	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.83
Sample ID:	601985	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	18.58

Sample Point 21 [INDICATOR - ENE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	586366	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.15
Sample ID:	590961	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.49
Sample ID:	595353	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.64
Sample ID:	601986	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.95

Sample Point 22 [INDICATOR - E @ 4.3 miles]

TLD RING TLD_OUTER

Sample ID:	586367	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.76
Sample ID:	590962	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.40
Sample ID:	595354	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.31
Sample ID:	601987	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	12.70

Sample Point 23 [INDICATOR - ESE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	586368	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.39
Sample ID:	590963	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	13.50
Sample ID:	595355	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.26

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 23 [INDICATOR - ESE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	601988	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	17.10

Sample Point 24 [INDICATOR - SE @ 4 miles]

TLD RING TLD_OUTER

Sample ID:	586369	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.10

Sample ID:	590964	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.50

Sample ID:	595356	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.18

Sample ID:	601989	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.09

Sample Point 25 [INDICATOR - SSE @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	586370	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.58

Sample ID:	590965	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.19

Sample ID:	595357	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.43

Sample ID:	601990	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.57

Sample Point 26 [INDICATOR - S @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	586371	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.29

Sample ID:	590966	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.31

Sample ID:	595358	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.27

Sample ID:	601991	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.84

Sample Point 27 [INDICATOR - SSW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	586372	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	10.94

Sample ID:	590967	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	10.83

Sample ID:	595359	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.54

Sample ID:	601992	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	11.78

Sample Point 28 [INDICATOR - SW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	586373	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	12.04

Sample ID:	590968	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.18

Sample ID:	595360	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.34

Sample ID:	601993	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.75

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 29 [INDICATOR - WSW @ 5.7 miles]

TLD RING TLD_OUTER

Sample ID:	586374	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	16.51
Sample ID:	590969	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	15.05
Sample ID:	595361	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.93
Sample ID:	601994	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	17.98

Sample Point 31 [INDICATOR - WNW @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	586376	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	11.36
Sample ID:	590971	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	10.44
Sample ID:	595363	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	9.71
Sample ID:	601996	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.76

Sample Point 32 [INDICATOR - NNW @ 6.4 miles]

TLD RING TLD_SPEC

Sample ID:	586377	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.91
Sample ID:	590972	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	13.27
Sample ID:	595364	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.84
Sample ID:	601997	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.26

Sample Point 33 [INDICATOR - NNW @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	590973	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	10.97
Sample ID:	595365	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	9.71
Sample ID:	601998	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.14

Sample Point 48 [INDICATOR - N @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	586380	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	16.14
Sample ID:	590975	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.68
Sample ID:	595367	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.08
Sample ID:	602000	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	16.73

Sample Point 49 [INDICATOR - NE @ 2.5 miles]

TLD RING TLD_INNER

Sample ID:	586381	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	17.29
Sample ID:	590976	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	16.96

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 49 [INDICATOR - NE @ 2.5 miles]

TLD RING TLD_INNER

Sample ID:	595368	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	17.13
Sample ID:	602001	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	19.42

Sample Point 50 [INDICATOR - ESE @ 2.6 miles]

TLD RING TLD_SPEC

Sample ID:	586383	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.73
Sample ID:	590978	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.86
Sample ID:	595370	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.80
Sample ID:	602003	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.21

Sample Point 56 [INDICATOR - WSW @ 3 miles]

TLD RING TLD_INNER

Sample ID:	586384	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.29
Sample ID:	590979	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.12
Sample ID:	595371	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	11.34
Sample ID:	602004	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.30

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	586386	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	16.27
Sample ID:	590981	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	16.54
Sample ID:	595373	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	15.41
Sample ID:	602006	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	17.90

Sample Point 93 [INDICATOR - WNW @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	586394	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.94
Sample ID:	590989	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	14.93
Sample ID:	595381	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	13.61
Sample ID:	602014	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	16.09

Sample Point 94 [INDICATOR - NW @ 2 miles]

TLD RING TLD_INNER

Sample ID:	586395	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	16.11
Sample ID:	590990	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	15.28
Sample ID:	595382	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	14.80

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 94 [INDICATOR - NW @ 2 miles]

TLD RING TLD_INNER

Sample ID:	602015	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	16.31

Sample Point 95 [INDICATOR - NNW @ 2 miles]

TLD RING TLD_INNER

Sample ID:	586396	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.22

Sample ID:	590991	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	13.33

Sample ID:	595383	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.31

Sample ID:	602016	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	16.13

Sample Point 98 [INDICATOR - E @ 5.9 miles]

TLD RING TLD_SPEC

Sample ID:	586397	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	15.12

Sample ID:	590992	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.79

Sample ID:	595384	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.84

Sample ID:	602017	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.27

Sample Point 99 [INDICATOR - NNE @ 5.5 miles]

TLD RING TLD_SPEC

Sample ID:	586398	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	14.32

Sample ID:	590993	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.04

Sample ID:	595385	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.13

Sample ID:	602018	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	14.63

Sample Point 130 [INDICATOR - W @ 3.9 miles]

TLD RING TLD_OUTER

Sample ID:	586399	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	11.54

Sample ID:	590994	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	11.34

Sample ID:	595386	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	10.67

Sample ID:	602019	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	13.82

Sample Point 153 [INDICATOR - NW @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	586400	Sample Dates:	1/12/2023 - 4/13/2023	Nuclide	Activity
				mR/Std Qtr	13.05

Sample ID:	590995	Sample Dates:	4/13/2023 - 7/19/2023	Nuclide	Activity
				mR/Std Qtr	12.67

Sample ID:	595387	Sample Dates:	7/19/2023 - 10/18/2023	Nuclide	Activity
				mR/Std Qtr	12.64

Sample ID:	602020	Sample Dates:	10/18/2023 - 1/9/2024	Nuclide	Activity
				mR/Std Qtr	15.13

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 586764	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.44E+01	0.00E+00	1.44E+01
			Co-58	<9.68E+00	0.00E+00	9.68E+00
			Fe-59	<2.57E+01	0.00E+00	2.57E+01
			Co-60	<1.72E+01	0.00E+00	1.72E+01
			Zn-65	<3.08E+01	0.00E+00	3.08E+01
			Zr-95	<2.14E+01	0.00E+00	2.14E+01
			Nb-95	<1.25E+01	0.00E+00	1.25E+01
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<1.41E+01	0.00E+00	1.41E+01
			Cs-137	<1.11E+01	0.00E+00	1.11E+01
			BaLa-140	<1.40E+01	0.00E+00	1.40E+01
			Be-7	7.08E+02	1.50E+02	1.58E+02
			K-40	2.52E+03	3.79E+02	2.21E+02
Sample ID: 587804	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.98E+01	0.00E+00	2.98E+01
			Co-58	<2.44E+01	0.00E+00	2.44E+01
			Fe-59	<5.07E+01	0.00E+00	5.07E+01
			Co-60	<2.90E+01	0.00E+00	2.90E+01
			Zn-65	<6.52E+01	0.00E+00	6.52E+01
			Zr-95	<4.03E+01	0.00E+00	4.03E+01
			Nb-95	<2.77E+01	0.00E+00	2.77E+01
			I-131	<2.73E+01	0.00E+00	2.73E+01
			Cs-134	<2.34E+01	0.00E+00	2.34E+01
			Cs-137	<2.79E+01	0.00E+00	2.79E+01
			BaLa-140	<3.10E+01	0.00E+00	3.10E+01
			Be-7	4.53E+02	2.26E+02	3.34E+02
			K-40	3.48E+03	6.15E+02	4.73E+02
Sample ID: 589647	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.42E+01	0.00E+00	2.42E+01
			Co-58	<2.30E+01	0.00E+00	2.30E+01
			Fe-59	<4.41E+01	0.00E+00	4.41E+01
			Co-60	<2.60E+01	0.00E+00	2.60E+01
			Zn-65	<5.39E+01	0.00E+00	5.39E+01
			Zr-95	<3.64E+01	0.00E+00	3.64E+01
			Nb-95	<2.21E+01	0.00E+00	2.21E+01
			I-131	<2.33E+01	0.00E+00	2.33E+01
			Cs-134	<2.91E+01	0.00E+00	2.91E+01
			Cs-137	<2.67E+01	0.00E+00	2.67E+01
			BaLa-140	<2.45E+01	0.00E+00	2.45E+01
			Be-7	1.08E+03	2.30E+02	2.37E+02
			K-40	3.02E+03	8.21E+02	1.39E+02
Sample ID: 590676	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.32E+01	0.00E+00	1.32E+01
			Co-58	<1.30E+01	0.00E+00	1.30E+01
			Fe-59	<2.67E+01	0.00E+00	2.67E+01
			Co-60	<1.87E+01	0.00E+00	1.87E+01
			Zn-65	<2.94E+01	0.00E+00	2.94E+01
			Zr-95	<2.30E+01	0.00E+00	2.30E+01
			Nb-95	<1.39E+01	0.00E+00	1.39E+01
			I-131	<1.37E+01	0.00E+00	1.37E+01
			Cs-134	<1.61E+01	0.00E+00	1.61E+01
			Cs-137	<1.19E+01	0.00E+00	1.19E+01
			BaLa-140	<1.40E+01	0.00E+00	1.40E+01
			Be-7	5.14E+02	1.33E+02	1.57E+02
			K-40	2.24E+03	3.55E+02	2.34E+02
Sample ID: 591860	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.62E+01	0.00E+00	1.62E+01
			Co-58	<1.65E+01	0.00E+00	1.65E+01
			Fe-59	<3.47E+01	0.00E+00	3.47E+01
			Co-60	<1.48E+01	0.00E+00	1.48E+01
			Zn-65	<3.89E+01	0.00E+00	3.89E+01
			Zr-95	<2.72E+01	0.00E+00	2.72E+01
			Nb-95	<1.47E+01	0.00E+00	1.47E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID: 591860	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.60E+01	0.00E+00	1.60E+01
			Cs-134	<1.73E+01	0.00E+00	1.73E+01
			Cs-137	<1.57E+01	0.00E+00	1.57E+01
			BaLa-140	<1.48E+01	0.00E+00	1.48E+01
			Be-7	1.35E+03	2.11E+02	1.96E+02
			K-40	2.40E+03	3.74E+02	2.98E+02
Sample ID: 593590	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.75E+01	0.00E+00	3.75E+01
			Co-58	<3.05E+01	0.00E+00	3.05E+01
			Fe-59	<6.93E+01	0.00E+00	6.93E+01
			Co-60	<3.07E+01	0.00E+00	3.07E+01
			Zn-65	<5.34E+01	0.00E+00	5.34E+01
			Zr-95	<3.61E+01	0.00E+00	3.61E+01
			Nb-95	<7.37E+00	0.00E+00	7.37E+00
			I-131	<2.21E+01	0.00E+00	2.21E+01
			Cs-134	<8.71E+00	0.00E+00	8.71E+00
			Cs-137	<3.00E+01	0.00E+00	3.00E+01
			BaLa-140	<5.70E+01	0.00E+00	5.70E+01
			Be-7	1.23E+03	3.38E+02	2.43E+02
			K-40	1.92E+03	6.30E+02	4.79E+02
Sample ID: 595023	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.85E+01	0.00E+00	2.85E+01
			Co-58	<3.38E+01	0.00E+00	3.38E+01
			Fe-59	<4.91E+01	0.00E+00	4.91E+01
			Co-60	<8.49E+00	0.00E+00	8.49E+00
			Zn-65	<7.81E+01	0.00E+00	7.81E+01
			Zr-95	<5.14E+01	0.00E+00	5.14E+01
			Nb-95	<3.99E+01	0.00E+00	3.99E+01
			I-131	<4.54E+01	0.00E+00	4.54E+01
			Cs-134	<3.65E+01	0.00E+00	3.65E+01
			Cs-137	<3.31E+01	0.00E+00	3.31E+01
			BaLa-140	<5.02E+01	0.00E+00	5.02E+01
			Be-7	5.92E+02	3.21E+02	4.63E+02
			K-40	2.66E+03	6.92E+02	5.98E+02
Sample ID: 597318	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.82E+01	0.00E+00	3.82E+01
			Co-58	<4.23E+01	0.00E+00	4.23E+01
			Fe-59	<6.21E+01	0.00E+00	6.21E+01
			Co-60	<3.96E+01	0.00E+00	3.96E+01
			Zn-65	<5.97E+01	0.00E+00	5.97E+01
			Zr-95	<5.28E+01	0.00E+00	5.28E+01
			Nb-95	<2.96E+01	0.00E+00	2.96E+01
			I-131	<3.21E+01	0.00E+00	3.21E+01
			Cs-134	<3.75E+01	0.00E+00	3.75E+01
			Cs-137	<3.48E+01	0.00E+00	3.48E+01
			BaLa-140	<4.55E+01	0.00E+00	4.55E+01
			Be-7	<6.94E+02	0.00E+00	6.94E+02
			K-40	2.18E+03	6.48E+02	5.25E+02
Sample ID: 599492	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.79E+01	0.00E+00	1.79E+01
			Co-58	<1.14E+01	0.00E+00	1.14E+01
			Fe-59	<3.60E+01	0.00E+00	3.60E+01
			Co-60	<2.07E+01	0.00E+00	2.07E+01
			Zn-65	<4.70E+01	0.00E+00	4.70E+01
			Zr-95	<3.20E+01	0.00E+00	3.20E+01
			Nb-95	<1.79E+01	0.00E+00	1.79E+01
			I-131	<1.97E+01	0.00E+00	1.97E+01
			Cs-134	<1.60E+01	0.00E+00	1.60E+01
			Cs-137	<1.39E+01	0.00E+00	1.39E+01
			BaLa-140	<2.40E+01	0.00E+00	2.40E+01
			Be-7	1.46E+03	2.67E+02	2.40E+02
			K-40	2.90E+03	4.74E+02	1.74E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 5 [CONTROL - WNW @ 13.3 miles]

Sample ID:	601811	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.48E+01	0.00E+00	3.48E+01
					Co-58	<3.47E+01	0.00E+00	3.47E+01
					Fe-59	<7.56E+01	0.00E+00	7.56E+01
					Co-60	<4.09E+01	0.00E+00	4.09E+01
					Zn-65	<8.03E+01	0.00E+00	8.03E+01
					Zr-95	<5.47E+01	0.00E+00	5.47E+01
					Nb-95	<3.36E+01	0.00E+00	3.36E+01
					I-131	<2.95E+01	0.00E+00	2.95E+01
					Cs-134	<3.74E+01	0.00E+00	3.74E+01
					Cs-137	<2.73E+01	0.00E+00	2.73E+01
					BaLa-140	<2.82E+01	0.00E+00	2.82E+01
					Be-7	5.94E+02	2.93E+02	4.13E+02
					K-40	3.91E+03	7.78E+02	4.33E+02

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

Sample ID:	586763	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.99E+01	0.00E+00	1.99E+01
					Co-58	<2.06E+01	0.00E+00	2.06E+01
					Fe-59	<3.86E+01	0.00E+00	3.86E+01
					Co-60	<2.14E+01	0.00E+00	2.14E+01
					Zn-65	<4.05E+01	0.00E+00	4.05E+01
					Zr-95	<4.34E+01	0.00E+00	4.34E+01
					Nb-95	<1.58E+01	0.00E+00	1.58E+01
					I-131	<2.07E+01	0.00E+00	2.07E+01
					Cs-134	<1.80E+01	0.00E+00	1.80E+01
					Cs-137	<1.83E+01	0.00E+00	1.83E+01
					BaLa-140	<1.75E+01	0.00E+00	1.75E+01
					Be-7	4.40E+03	5.30E+02	2.61E+02
					K-40	2.48E+03	4.35E+02	2.75E+02

Sample ID:	587803	Sample Dates:	4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.20E+01	0.00E+00	2.20E+01
					Co-58	<1.84E+01	0.00E+00	1.84E+01
					Fe-59	<5.03E+01	0.00E+00	5.03E+01
					Co-60	<2.23E+01	0.00E+00	2.23E+01
					Zn-65	<6.34E+01	0.00E+00	6.34E+01
					Zr-95	<4.38E+01	0.00E+00	4.38E+01
					Nb-95	<2.02E+01	0.00E+00	2.02E+01
					I-131	<2.33E+01	0.00E+00	2.33E+01
					Cs-134	<2.64E+01	0.00E+00	2.64E+01
					Cs-137	<2.23E+01	0.00E+00	2.23E+01
					BaLa-140	<2.85E+01	0.00E+00	2.85E+01
					Be-7	1.39E+03	2.70E+02	2.56E+02
					K-40	4.14E+03	6.15E+02	2.44E+02

Sample ID:	589646	Sample Dates:	5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.71E+01	0.00E+00	1.71E+01
					Co-58	<1.69E+01	0.00E+00	1.69E+01
					Fe-59	<3.23E+01	0.00E+00	3.23E+01
					Co-60	<1.91E+01	0.00E+00	1.91E+01
					Zn-65	<4.07E+01	0.00E+00	4.07E+01
					Zr-95	<3.18E+01	0.00E+00	3.18E+01
					Nb-95	<1.89E+01	0.00E+00	1.89E+01
					I-131	<1.87E+01	0.00E+00	1.87E+01
					Cs-134	<1.92E+01	0.00E+00	1.92E+01
					Cs-137	<1.56E+01	0.00E+00	1.56E+01
					BaLa-140	<1.83E+01	0.00E+00	1.83E+01
					Be-7	5.23E+02	1.99E+02	2.82E+02
					K-40	3.17E+03	5.25E+02	4.15E+02

Sample ID:	590675	Sample Dates:	6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.38E+01	0.00E+00	1.38E+01
					Co-58	<1.15E+01	0.00E+00	1.15E+01
					Fe-59	<2.64E+01	0.00E+00	2.64E+01
					Co-60	<1.11E+01	0.00E+00	1.11E+01
					Zn-65	<2.99E+01	0.00E+00	2.99E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

Sample ID: 590675	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Zr-95		<2.65E+01	0.00E+00	2.65E+01
			Nb-95		<1.42E+01	0.00E+00	1.42E+01
			I-131		<1.57E+01	0.00E+00	1.57E+01
			Cs-134		<1.61E+01	0.00E+00	1.61E+01
			Cs-137		<1.84E+01	0.00E+00	1.84E+01
			BaLa-140		<1.12E+01	0.00E+00	1.12E+01
			Be-7		5.15E+02	9.80E+01	1.29E+02
			K-40		2.66E+03	3.79E+02	1.48E+02
Sample ID: 591859	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<2.59E+01	0.00E+00	2.59E+01
			Co-58		<2.36E+01	0.00E+00	2.36E+01
			Fe-59		<5.19E+01	0.00E+00	5.19E+01
			Co-60		<2.32E+01	0.00E+00	2.32E+01
			Zn-65		<5.56E+01	0.00E+00	5.56E+01
			Zr-95		<4.50E+01	0.00E+00	4.50E+01
			Nb-95		<2.49E+01	0.00E+00	2.49E+01
			I-131		<2.35E+01	0.00E+00	2.35E+01
			Cs-134		<2.38E+01	0.00E+00	2.38E+01
			Cs-137		<2.06E+01	0.00E+00	2.06E+01
			BaLa-140		<2.62E+01	0.00E+00	2.62E+01
			Be-7		1.17E+03	2.53E+02	2.57E+02
Sample ID: 593589	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<3.40E+01	0.00E+00	3.40E+01
			Co-58		<3.36E+01	0.00E+00	3.36E+01
			Fe-59		<9.29E+01	0.00E+00	9.29E+01
			Co-60		<3.38E+01	0.00E+00	3.38E+01
			Zn-65		<7.42E+01	0.00E+00	7.42E+01
			Zr-95		<9.01E+01	0.00E+00	9.01E+01
			Nb-95		<2.79E+01	0.00E+00	2.79E+01
			I-131		<3.87E+01	0.00E+00	3.87E+01
			Cs-134		<2.61E+01	0.00E+00	2.61E+01
			Cs-137		<3.68E+01	0.00E+00	3.68E+01
			BaLa-140		<1.57E+01	0.00E+00	1.57E+01
			Be-7		1.61E+03	4.44E+02	4.16E+02
Sample ID: 595022	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<3.59E+01	0.00E+00	3.59E+01
			Co-58		<3.16E+01	0.00E+00	3.16E+01
			Fe-59		<9.79E+01	0.00E+00	9.79E+01
			Co-60		<4.81E+01	0.00E+00	4.81E+01
			Zn-65		<8.49E+01	0.00E+00	8.49E+01
			Zr-95		<7.64E+01	0.00E+00	7.64E+01
			Nb-95		<3.78E+01	0.00E+00	3.78E+01
			I-131		<5.08E+01	0.00E+00	5.08E+01
			Cs-134		<4.74E+01	0.00E+00	4.74E+01
			Cs-137		<4.60E+01	0.00E+00	4.60E+01
			BaLa-140		<5.84E+01	0.00E+00	5.84E+01
			Be-7		1.92E+03	4.67E+02	4.49E+02
Sample ID: 597317	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<3.67E+01	0.00E+00	3.67E+01
			Co-58		<3.65E+01	0.00E+00	3.65E+01
			Fe-59		<6.44E+01	0.00E+00	6.44E+01
			Co-60		<4.77E+01	0.00E+00	4.77E+01
			Zn-65		<8.33E+01	0.00E+00	8.33E+01
			Zr-95		<7.91E+01	0.00E+00	7.91E+01
			Nb-95		<4.16E+01	0.00E+00	4.16E+01
			I-131		<4.36E+01	0.00E+00	4.36E+01
			Cs-134		<4.84E+01	0.00E+00	4.84E+01
			Cs-137		<4.94E+01	0.00E+00	4.94E+01
			BaLa-140		<4.31E+01	0.00E+00	4.31E+01
			Be-7		1.16E+03	3.71E+02	3.71E+02

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

Sample ID:	597317	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					K-40	3.52E+03	8.67E+02	4.56E+02
Sample ID:	599491	Sample Dates:	11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.88E+01	0.00E+00	2.88E+01
					Co-58	<2.78E+01	0.00E+00	2.78E+01
					Fe-59	<5.51E+01	0.00E+00	5.51E+01
					Co-60	<2.65E+01	0.00E+00	2.65E+01
					Zn-65	<6.63E+01	0.00E+00	6.63E+01
					Zr-95	<3.80E+01	0.00E+00	3.80E+01
					Nb-95	<2.78E+01	0.00E+00	2.78E+01
					I-131	<2.78E+01	0.00E+00	2.78E+01
					Cs-134	<3.03E+01	0.00E+00	3.03E+01
					Cs-137	<3.30E+01	0.00E+00	3.30E+01
					BaLa-140	<2.91E+01	0.00E+00	2.91E+01
					Be-7	1.83E+03	3.71E+02	3.77E+02
					K-40	2.13E+03	5.04E+02	4.34E+02
Sample ID:	601810	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.20E+01	0.00E+00	4.20E+01
					Co-58	<4.00E+01	0.00E+00	4.00E+01
					Fe-59	<7.75E+01	0.00E+00	7.75E+01
					Co-60	<3.26E+01	0.00E+00	3.26E+01
					Zn-65	<6.59E+01	0.00E+00	6.59E+01
					Zr-95	<6.60E+01	0.00E+00	6.60E+01
					Nb-95	<3.50E+01	0.00E+00	3.50E+01
					I-131	<3.48E+01	0.00E+00	3.48E+01
					Cs-134	<3.81E+01	0.00E+00	3.81E+01
					Cs-137	<3.06E+01	0.00E+00	3.06E+01
					BaLa-140	<3.45E+01	0.00E+00	3.45E+01
					Be-7	2.98E+03	5.36E+02	3.39E+02
					K-40	2.18E+03	6.07E+02	3.87E+02

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	586765	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.00E+01	0.00E+00	2.00E+01
					Co-58	<2.10E+01	0.00E+00	2.10E+01
					Fe-59	<3.57E+01	0.00E+00	3.57E+01
					Co-60	<2.54E+01	0.00E+00	2.54E+01
					Zn-65	<4.03E+01	0.00E+00	4.03E+01
					Zr-95	<2.98E+01	0.00E+00	2.98E+01
					Nb-95	<1.91E+01	0.00E+00	1.91E+01
					I-131	<2.00E+01	0.00E+00	2.00E+01
					Cs-134	<2.51E+01	0.00E+00	2.51E+01
					Cs-137	<2.10E+01	0.00E+00	2.10E+01
					BaLa-140	<2.13E+01	0.00E+00	2.13E+01
					Be-7	3.44E+03	4.37E+02	2.63E+02
					K-40	3.31E+03	5.08E+02	2.75E+02
Sample ID:	587805	Sample Dates:	4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.77E+01	0.00E+00	2.77E+01
					Co-58	<2.21E+01	0.00E+00	2.21E+01
					Fe-59	<6.34E+01	0.00E+00	6.34E+01
					Co-60	<2.77E+01	0.00E+00	2.77E+01
					Zn-65	<5.34E+01	0.00E+00	5.34E+01
					Zr-95	<4.32E+01	0.00E+00	4.32E+01
					Nb-95	<2.78E+01	0.00E+00	2.78E+01
					I-131	<2.88E+01	0.00E+00	2.88E+01
					Cs-134	<3.00E+01	0.00E+00	3.00E+01
					Cs-137	<2.92E+01	0.00E+00	2.92E+01
					BaLa-140	<2.11E+01	0.00E+00	2.11E+01
					Be-7	5.74E+03	6.77E+02	3.21E+02
					K-40	3.45E+03	5.93E+02	4.27E+02
Sample ID:	589648	Sample Dates:	5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.97E+01	0.00E+00	1.97E+01
					Co-58	<2.27E+01	0.00E+00	2.27E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 589648	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<3.80E+01	0.00E+00	3.80E+01
			Co-60	<2.18E+01	0.00E+00	2.18E+01
			Zn-65	<4.94E+01	0.00E+00	4.94E+01
			Zr-95	<4.00E+01	0.00E+00	4.00E+01
			Nb-95	<1.97E+01	0.00E+00	1.97E+01
			I-131	<1.87E+01	0.00E+00	1.87E+01
			Cs-134	<2.27E+01	0.00E+00	2.27E+01
			Cs-137	<1.86E+01	0.00E+00	1.86E+01
			BaLa-140	<2.17E+01	0.00E+00	2.17E+01
			Be-7	1.39E+03	2.56E+02	2.45E+02
			K-40	3.14E+03	5.18E+02	3.53E+02
Sample ID: 590677	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.39E+01	0.00E+00	1.39E+01
			Co-58	<1.28E+01	0.00E+00	1.28E+01
			Fe-59	<2.67E+01	0.00E+00	2.67E+01
			Co-60	<1.25E+01	0.00E+00	1.25E+01
			Zn-65	<2.59E+01	0.00E+00	2.59E+01
			Zr-95	<1.72E+01	0.00E+00	1.72E+01
			Nb-95	<1.26E+01	0.00E+00	1.26E+01
			I-131	<1.38E+01	0.00E+00	1.38E+01
			Cs-134	<1.55E+01	0.00E+00	1.55E+01
			Cs-137	<1.24E+01	0.00E+00	1.24E+01
			BaLa-140	<1.20E+01	0.00E+00	1.20E+01
			Be-7	6.55E+02	1.36E+02	1.38E+02
			K-40	3.22E+03	4.28E+02	1.95E+02
Sample ID: 591861	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.32E+01	0.00E+00	2.32E+01
			Co-58	<1.84E+01	0.00E+00	1.84E+01
			Fe-59	<4.15E+01	0.00E+00	4.15E+01
			Co-60	<1.77E+01	0.00E+00	1.77E+01
			Zn-65	<4.87E+01	0.00E+00	4.87E+01
			Zr-95	<3.27E+01	0.00E+00	3.27E+01
			Nb-95	<1.64E+01	0.00E+00	1.64E+01
			I-131	<1.81E+01	0.00E+00	1.81E+01
			Cs-134	<2.51E+01	0.00E+00	2.51E+01
			Cs-137	<2.30E+01	0.00E+00	2.30E+01
			BaLa-140	<2.46E+01	0.00E+00	2.46E+01
			Be-7	1.01E+03	2.11E+02	2.04E+02
			K-40	3.63E+03	5.73E+02	3.73E+02
Sample ID: 593591	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.69E+01	0.00E+00	3.69E+01
			Co-58	<3.65E+01	0.00E+00	3.65E+01
			Fe-59	<5.06E+01	0.00E+00	5.06E+01
			Co-60	<3.27E+01	0.00E+00	3.27E+01
			Zn-65	<9.32E+01	0.00E+00	9.32E+01
			Zr-95	<5.66E+01	0.00E+00	5.66E+01
			Nb-95	<3.51E+01	0.00E+00	3.51E+01
			I-131	<3.40E+01	0.00E+00	3.40E+01
			Cs-134	<4.53E+01	0.00E+00	4.53E+01
			Cs-137	<3.21E+01	0.00E+00	3.21E+01
			BaLa-140	<4.14E+01	0.00E+00	4.14E+01
			Be-7	1.51E+03	4.16E+02	3.76E+02
			K-40	3.48E+03	8.37E+02	1.21E+02
Sample ID: 595024	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.00E+01	0.00E+00	3.00E+01
			Co-58	<2.79E+01	0.00E+00	2.79E+01
			Fe-59	<6.91E+01	0.00E+00	6.91E+01
			Co-60	<2.78E+01	0.00E+00	2.78E+01
			Zn-65	<4.92E+01	0.00E+00	4.92E+01
			Zr-95	<3.48E+01	0.00E+00	3.48E+01
			Nb-95	<2.04E+01	0.00E+00	2.04E+01
			I-131	<4.47E+01	0.00E+00	4.47E+01
			Cs-134	<2.83E+01	0.00E+00	2.83E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 595024	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-137	<2.88E+01	0.00E+00	2.88E+01
			BaLa-140	<4.11E+01	0.00E+00	4.11E+01
			Be-7	1.11E+03	3.22E+02	3.66E+02
			K-40	3.10E+03	6.70E+02	4.81E+02
Sample ID: 597319	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.76E+01	0.00E+00	2.76E+01
			Co-58	<2.56E+01	0.00E+00	2.56E+01
			Fe-59	<6.28E+01	0.00E+00	6.28E+01
			Co-60	<3.74E+01	0.00E+00	3.74E+01
			Zn-65	<5.96E+01	0.00E+00	5.96E+01
			Zr-95	<5.89E+01	0.00E+00	5.89E+01
			Nb-95	<2.48E+01	0.00E+00	2.48E+01
			I-131	<3.30E+01	0.00E+00	3.30E+01
			Cs-134	<3.49E+01	0.00E+00	3.49E+01
			Cs-137	<2.50E+01	0.00E+00	2.50E+01
			BaLa-140	<2.78E+01	0.00E+00	2.78E+01
			Be-7	1.24E+03	2.96E+02	2.25E+02
Sample ID: 599493	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.26E+01	0.00E+00	2.26E+01
			Co-58	<2.25E+01	0.00E+00	2.25E+01
			Fe-59	<5.54E+01	0.00E+00	5.54E+01
			Co-60	<3.40E+01	0.00E+00	3.40E+01
			Zn-65	<5.19E+01	0.00E+00	5.19E+01
			Zr-95	<4.36E+01	0.00E+00	4.36E+01
			Nb-95	<2.09E+01	0.00E+00	2.09E+01
			I-131	<2.70E+01	0.00E+00	2.70E+01
			Cs-134	<2.42E+01	0.00E+00	2.42E+01
			Cs-137	<2.82E+01	0.00E+00	2.82E+01
			BaLa-140	<2.70E+01	0.00E+00	2.70E+01
			Be-7	1.81E+03	3.65E+02	3.78E+02
Sample ID: 601812	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.72E+01	0.00E+00	3.72E+01
			Co-58	<3.29E+01	0.00E+00	3.29E+01
			Fe-59	<4.94E+01	0.00E+00	4.94E+01
			Co-60	<4.44E+01	0.00E+00	4.44E+01
			Zn-65	<8.35E+01	0.00E+00	8.35E+01
			Zr-95	<6.74E+01	0.00E+00	6.74E+01
			Nb-95	<3.20E+01	0.00E+00	3.20E+01
			I-131	<3.68E+01	0.00E+00	3.68E+01
			Cs-134	<4.77E+01	0.00E+00	4.77E+01
			Cs-137	<2.98E+01	0.00E+00	2.98E+01
			BaLa-140	<1.22E+01	0.00E+00	1.22E+01
			Be-7	1.73E+03	3.94E+02	3.19E+02
			K-40	2.30E+03	6.82E+02	6.58E+02

APPENDIX F

ERRATA TO PREVIOUS REPORTS

2023

There are no errata to the 2023 HNP Radiological Environmental Monitoring Program.

Enclosure 4
RA-24-0031

ENCLOSURE 4: [MNS Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**DUKE ENERGY CORPORATION
MCGUIRE NUCLEAR STATION
Units 1 and 2**

2023

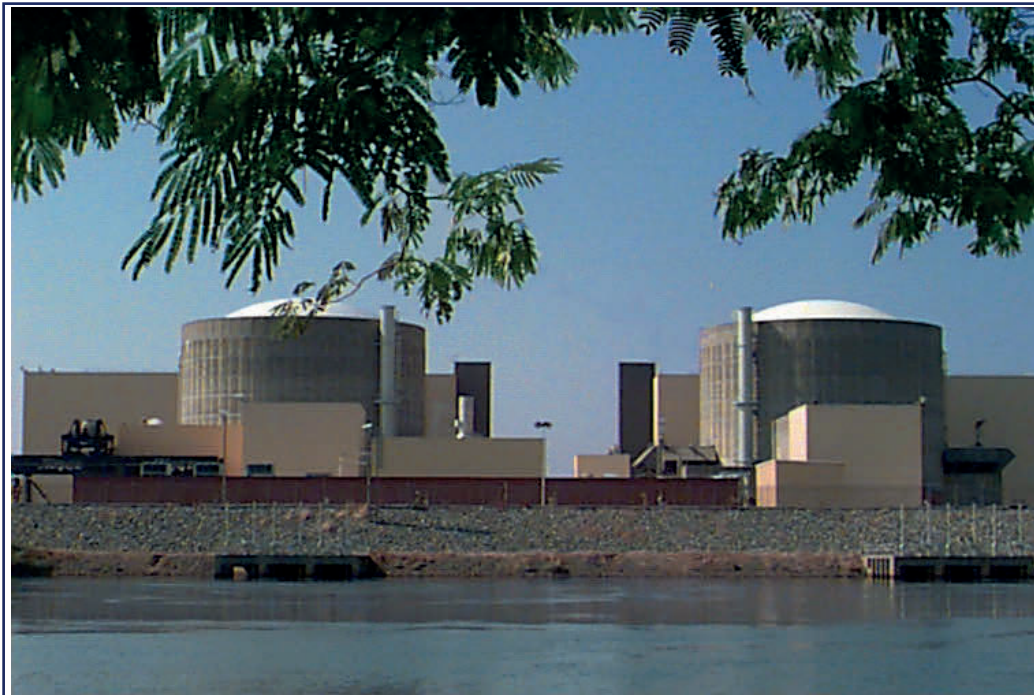


TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-1
2.3 Statistical and Computational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-3
3.2 Drinking Water	3-7
3.3 Surface Water	3-10
3.4 Milk	3-13
3.5 Broadleaf Vegetation	3-15
3.6 Food Products	3-17
3.7 Fish	3-19
3.8 Shoreline Sediment	3-21
3.9 Direct Gamma Radiation	3-23
3.9.1 Environmental TLD	3-23
3.9.2 ISFSI	3-24
3.10 Land Use Census	3-27
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-2
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 State of North Carolina Intercomparison Program	4-2
4.7 TLD Intercomparison Program (Internal Duke Energy)	4-2

Appendices

Appendix A: Environmental Sampling & Analysis Procedures	A-1
I. Change of Sampling Procedures	A-2
II. Description of Analysis Procedures	A-2
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program - Summary of Results	B-1
Air Particulate	B-2
Air Radioiodine	B-2
Drinking Water	B-2
Surface Water	B-2
Milk	B-2
Broadleaf Vegetation	B-3
Food Products	B-3
Fish	B-3
Shoreline Sediment	B-3

Direct Gamma Radiation (TLD)	B-3
Footnotes to Appendix B	B-4
Appendix C: Sampling Deviations & Unavailable Analyses	C-1
C.1 Sampling Deviations	C-2
C.2 Unavailable Analyses	C-3
Appendix D: Analytical Deviations	D-1
D.1 Analytical Deviations.	D-2
Appendix E: Radiological Environmental Monitoring Program Results	E-1
Appendix F: Errata to Previous Reports	F-1

LIST OF FIGURES

2.1-1	McGuire Nuclear Station Sampling Locations Map (0.5 Mile Radius)	2-5
2.1-2	McGuire Nuclear Station Sampling Locations Map (Ten Mile Radius).	2-6
2.1-3	McGuire Nuclear Station Sampling Locations Map (>Ten Mile Radius)	2-7
3.1	Concentration of Gross Beta in Air Particulate	3-4
3.2-1	Concentration of Gross Beta in Drinking Water	3-8
3.2-2	Concentration of Tritium in Drinking Water	3-8
3.3	Concentration of Tritium in Surface Water	3-11
3.7	Concentration of Cs-137 in Fish	3-19
3.8	Concentration of Cs-137 in Shoreline Sediment	3-21
3.9	Direct Gamma Radiation (TLD) Results	3-25
3.10	McGuire Nuclear Station 2023 Land Use Census Map.	3-29

LIST OF TABLES

2.1-A	McGuire Radiological Monitoring Program Sampling Locations	2-8
2.1-B	McGuire Radiological Monitoring Program Sampling Locations (TLD Sites)	2-9
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-10
2.2-B	REMP Analysis Frequency	2-11
2.2-C	Maximum Values for the <i>A Priori</i> Lower Limits of Detection	2-12
3.1-A	Mean Concentrations of Radionuclides in Air Particulate	3-5
3.1-B	Mean Concentrations of Air Radioiodine (I-131)	3-6
3.2	Mean Concentrations of Radionuclides in Drinking Water	3-9
3.3	Mean Concentrations of Tritium in Surface Water	3-12
3.4	Mean Concentrations of Cs-137 in Milk	3-14
3.5	Mean Concentrations of Cs-137 in Broadleaf Vegetation	3-16
3.6	Mean Concentrations of Cs-137 in Food Products	3-18
3.7	Mean Concentrations of Radionuclides in Fish (pCi/kg)	3-20
3.8	Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)	3-22
3.9	Direct Gamma Radiation (TLD) Results	3-26
3.10	McGuire 2023 Land Use Census Results	3-28
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2023 Environmental Dosimeter Cross-Check Results	4-5

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

AREOR	Annual Radiological Environmental Operating Report
ARERR	Annual Radiological Effluent Release Report
BW	BiWeekly
C	Control
CM	Community
CR	Condition Report (analogous to Nuclear Condition Report (NCR))
EZA	Eckert & Ziegler Analytics
GPS	Global Positioning System
I	Indicator
IR	Inner Ring
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
LLI	Low Level Iodine
LUC	Land Use Census
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
MNS	McGuire Nuclear Station
mrem	Millirem
mR/Std Qtr	milliroentgen per standard quarter
MWe	Megawatt (electrical)
NIST	National Institute of Standards and Technology
NCR	Nuclear Condition Report (analogous to Condition Report (CR))
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OR	Outer Ring
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SI	Special Interest
SLCs	Selected Licensee Commitments
SM	Semimonthly
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the McGuire Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by station operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed.

Sampling activities were conducted as prescribed by the McGuire Offsite Dose Calculation Manual (ODCM) and Selected Licensee Commitments (SLCs). Eleven-hundred fifty-seven samples were analyzed comprising 1,248 test results to compile data for the 2023 report. Based on the annual land use census, the current number of sampling sites for McGuire Nuclear Station is sufficient.

Concentrations observed in the environment in 2023 for station related radionuclides were within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in drinking water and surface water are higher than the activities reported for samples collected prior to the operation of the station. Measured concentrations were not higher than expected, and all positively identified measurements attributable to station operation were within limits as specified in the ODCM and SLCs, thus presenting no significant impact on the environment or public health and safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

McGuire Nuclear Station (MNS) is located geographically near the center of a highly industrialized region of the Carolinas. The land is predominantly rural non-farm with a small amount of land being used for farming. The McGuire site is in northwestern Mecklenburg County, North Carolina, 17 miles north-northwest of Charlotte, North Carolina. The site is bounded to the west by the Catawba River channel and to the north by 32,510 acre Lake Norman. Lake Norman is impounded by Duke Energy Corporation's Cowans Ford Dam Hydroelectric Station. The tailwater of Cowans Ford Dam is the upper limit of Mountain Island Reservoir. Mountain Island Dam is located 15 miles downstream from the site. Lookout Shoals Hydroelectric Station is at the upper reaches of Lake Norman. Marshall Steam Station is located on the western shore of Lake Norman, approximately 16 miles upstream from the site.

MNS consists of two pressurized water reactors. Each reactor unit is essentially a mirror image of the other joined by an auxiliary building housing both separate and common equipment. Each unit was designed to produce approximately 1200 gross MWe. Unit 1 achieved criticality August 8, 1981 and Unit 2 on May 8, 1983.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. Figures 2.1-1, 2.1-2, and 2.1-3 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within 0.5 mile radius of MNS. Figures 2.1-2 and 2.1-3 comprise all sample locations within a ten-mile radius of MNS and beyond.

The McGuire site centerline used for GPS measurements was referenced from the McGuire Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1, Site Location. Waypoint coordinates used for MNS GPS measurements were latitude 35°-25'-59"N and longitude 80°-56'-55"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using two significant figures.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at McGuire Nuclear Station since 1977, four years prior to operation of Unit 1 in 1981. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other “man-made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from McGuire Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public, and state and federal agencies concerned with the environment. Reporting levels for radioactivity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the Radiological Environmental Monitoring Program are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.10.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. “Net activity (or concentration)” is the activity (or concentration) determined to be present in the sample. No “Minimum Detectable Activity”, “Lower Limit of Detection”, “Less Than Level”, or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,
i = individual sample,

N = total number of samples with a net activity (or concentration),
 χ_i = net activity (or concentration) for sample i .

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the Environmental Monitoring Program.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield, and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the Selected Licensee Commitments and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Some factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the 2011 Japan earthquake and tsunami, which triggered the Fukushima Dai-ichi Nuclear

Power Plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

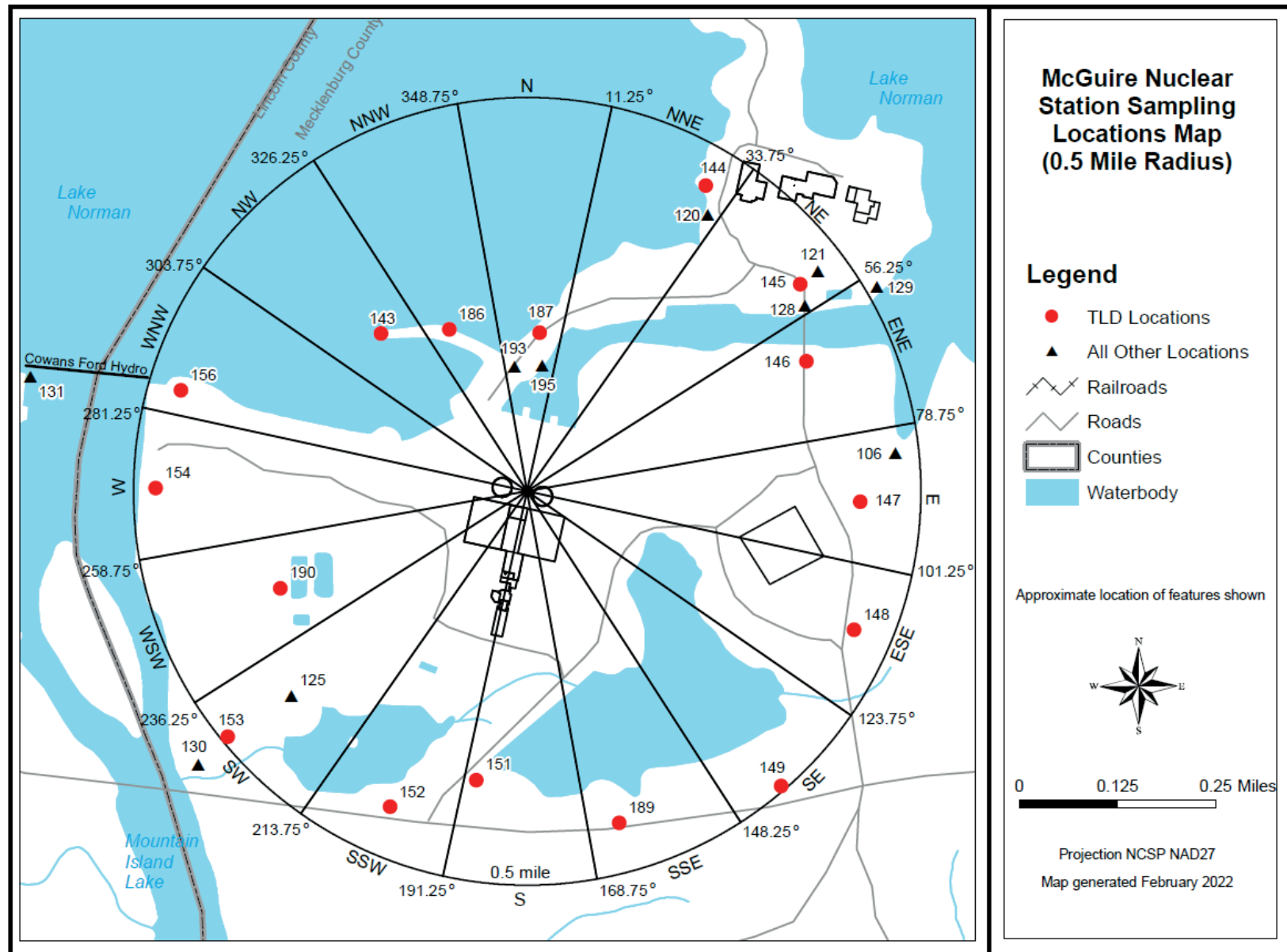


Figure 2.1-2

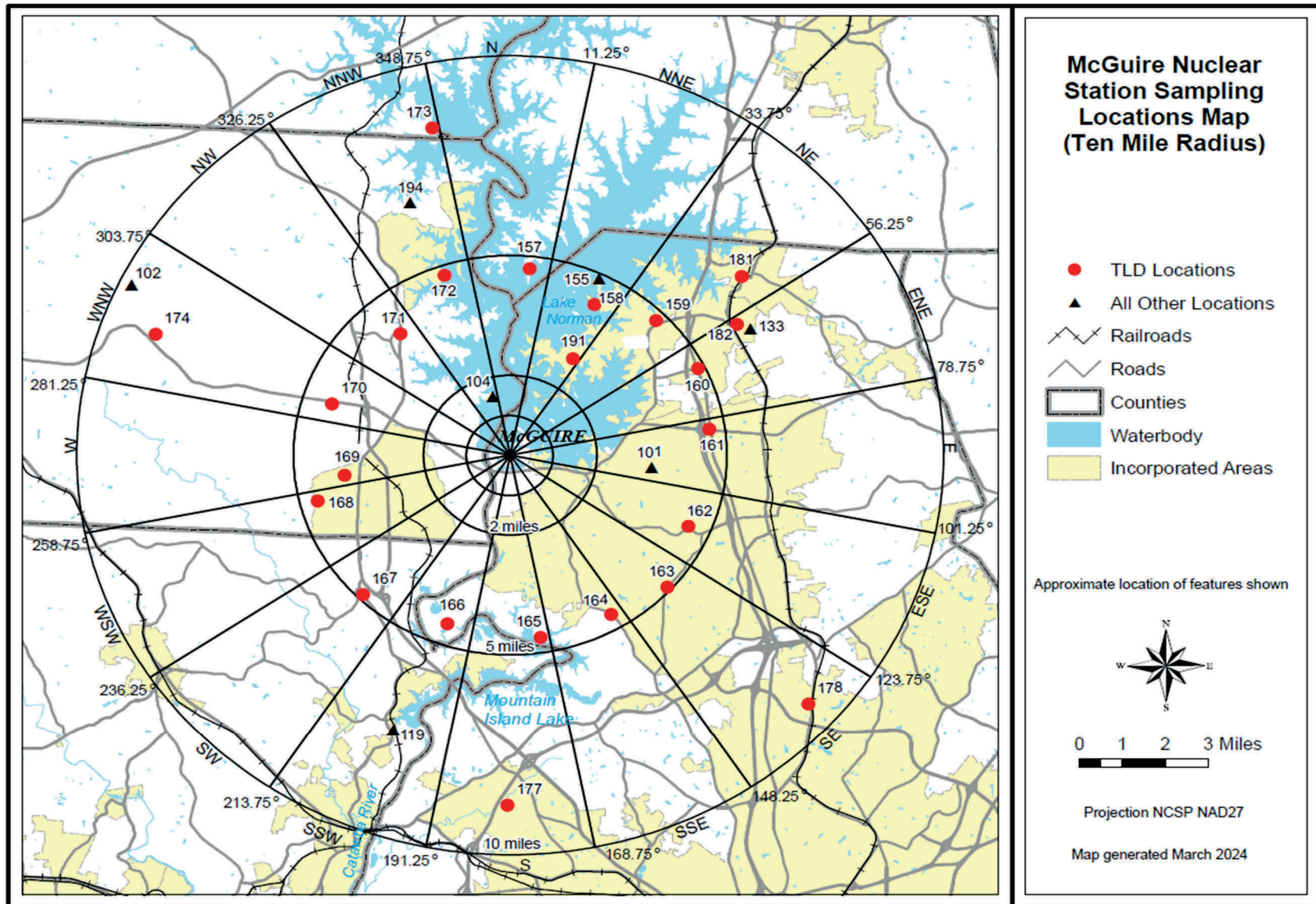


Figure 2.1-3

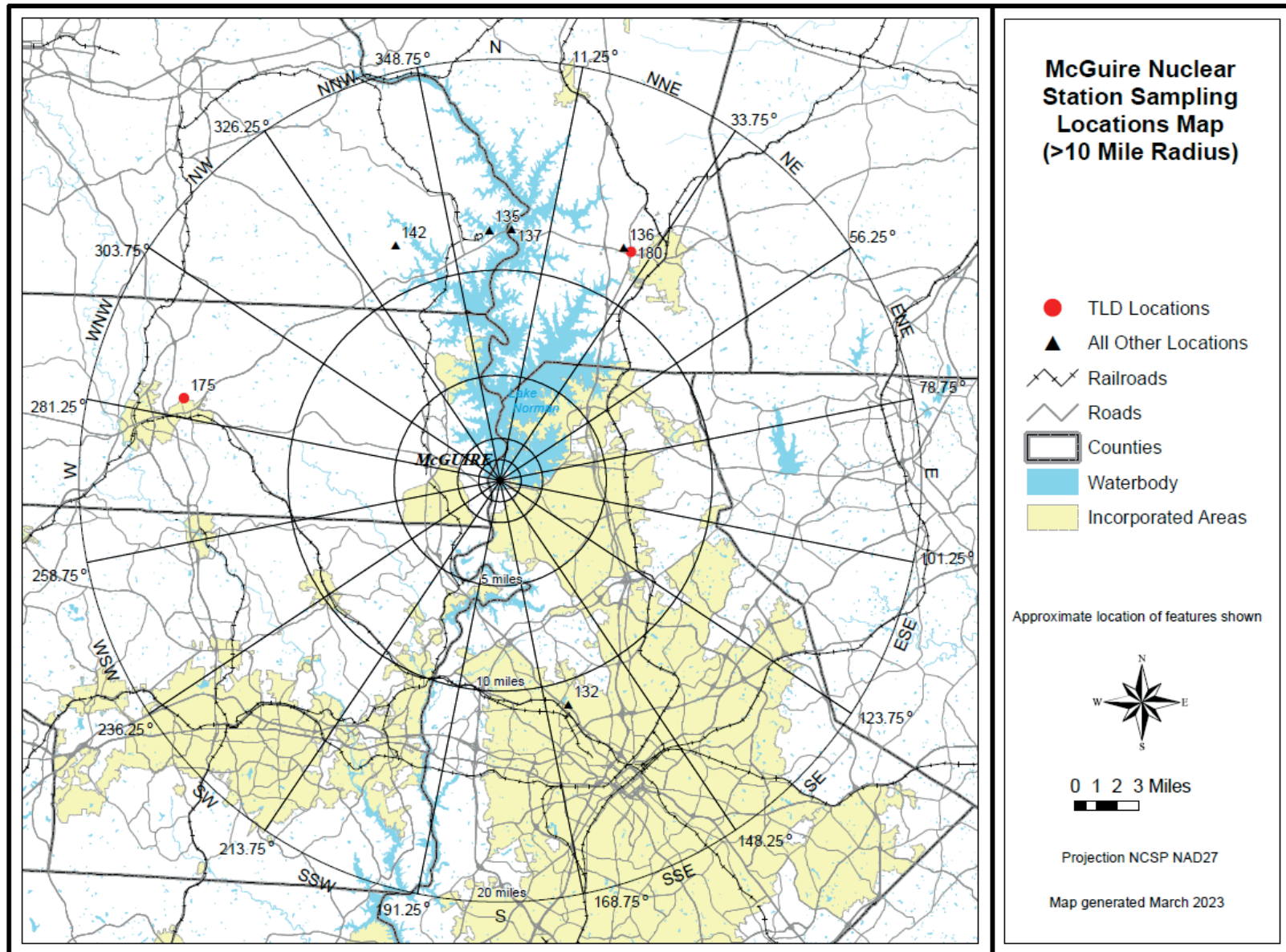


TABLE 2.1-A
MCGUIRE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS

Table 2.1-A Codes			
C	Control ^(c)	SA	Semiannually
CM	Community	SB	Site Boundary
I	Indicator	W	Weekly
M	Monthly		

Site #	Measure Type	Location Description ^(e)	Air Rad. & Part.	Surface Water ^(d)	Drinking Water	Shoreline Sediment	Food Products	Fish	Milk	Broad Leaf Veg.
101	I	North Mecklenburg Water Treatment Facility (3.31 mi E)			M					
102	C	Amity Church Road (9.89 mi WNW)	W							M (b)
106	I	Maintenance Training Facility (0.47 mi E)	W, CM							
119	I	Mt. Holly Municipal Water Supply (7.40 mi SSW)			M					
120	I	HP Boathouse-Site Boundary (0.46 mi NNE)	W, SB							M (b)
121	I	Guardhouse-Site Boundary (0.47 mi NE)	W, SB							
125	I	Settling Ponds - Site Boundary (0.38 mi SW)	W, SB							M (b)
128	I	Discharge Canal Bridge (0.45 mi NE)		M						
129	I	Discharge Canal Entrance to Lake Norman (0.51 mi ENE)				SA		SA		
130	I	Hwy 73 Bridge Downstream (0.52 mi SW)				SA				
131	I	Cowans Ford Dam (0.64 mi WNW)		M						
132	I	Charlotte Municipal Water Supply (11.1 mi SSE)			M					
133	I	Cornelius (6.23 mi ENE)	W							
135	C	Plant Marshall Intake Canal (11.9 mi N)		M						
136	C	Mooreville Municipal Water Supply (12.7 mi NNE)			M					
137	C	Pinnacle Access Area (12.0 mi N)				SA		SA		
142	C	Lowman Farms-Cows (12.2 mi NNW)							SM	
155	I	Island Forest Drive (4.87 mi NNE)					M (a)			
193	I	Site Boundary (0.19 mi N)								M (b)
194	I	East Lincoln County Water Supply (6.73 mi NNW)			M					
195	I	Fishing Access Road (0.19 mi N)	W							

(a) During Harvest Season

(b) When Available

(c) The purpose of this sample is to obtain background information. If it is not practical to establish control locations in accordance with the distance and wind direction criteria, other sites that provide valid background data may be substituted.

(d) The "upstream sample" shall be taken at a distance beyond significant influence of the discharge. The "downstream" sample shall be taken in an area beyond but near the mixing zone. "Upstream" samples in an estuary must be taken far enough upstream to be beyond the plant influence. Saltwater shall be sampled only when the receiving water is utilized for recreational activities.

(e) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.1-B

**MCGUIRE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS (TLD SITES) ^(b)**

Table 2.1-B Codes			
C	Control ^(a)	OR	Outer Ring
IR	Inner Ring	SI	Special Interest

Site #	Measure Type	Location	Distance ^(c) (miles)	Sector	Site #	Measure Type	Location	Distance ^(c) (miles)	Sector
143	IR	SITE BOUNDARY	0.27	NW	164	OR	HAMBRIGHT & BEATTIES FORD ROAD	4.64	SSE
144	IR	SITE BOUNDARY	0.46	NNE	165	OR	ARTHER AUTEN ROAD	4.57	S
145	IR	SITE BOUNDARY	0.47	NE	166	OR	NECK ROAD REFUGE BOUNDARY	4.44	SSW
146	IR	SITE BOUNDARY	0.42	ENE	167	OR	LUCIA RIVERBEND HWY/OLD FIREHOUSE	4.87	SW
147	IR	SITE BOUNDARY	0.44	E	168	OR	OLD PLANK ROAD BRIDGE	4.60	WSW
148	IR	SITE BOUNDARY	0.46	ESE	169	OR	GLOVER LANE	4.03	W
149	IR	SITE BOUNDARY	0.50	SE	170	OR	LITTLE EGYPT ROAD	4.32	WNW
151	IR	SITE BOUNDARY	0.37	S	171	OR	OLD HWY 16	3.95	NW
152	IR	SITE BOUNDARY	0.44	SSW	172	OR	LAKESHORE S RD ISLAND VIEW COURT	4.69	NNW
153	IR	SITE BOUNDARY	0.47	SW	173	SI	KEISTLER STORE / GLENWOOD ROAD	8.39	NNW
154	IR	SITE BOUNDARY	0.45	W	174	SI	EAST LINCOLN JR. HIGH SCHOOL	8.85	WNW
156	IR	SITE BOUNDARY	0.44	WNW	175	C	BOGER CITY	15.5	WNW
189	IR	SITE BOUNDARY	0.43	SSE	177	SI	BELMARROW RD / COULWOOD	8.77	S
190	IR	SITE BOUNDARY	0.37	WSW	178	SI	APPROX. 0.25 MI. NORTH OF LAKEVIEW RD/ DAVID COX RD ON HWY 115	9.36	SE
157	OR	THE POINTE/ MOORESVILLE	4.69	N	180	SI	MOORESVILLE WATER TREATMENT FACILITY	12.7	NNE
158	OR	BETHEL CHURCH RD	4.33	NNE	181	SI	OLD DAVIDSON WATER FACILITY	7.02	NE
159	OR	HENDERSON ROAD	4.77	NE	182	SI	CORNELIUS AIR SITE # 133	6.23	ENE
160	OR	INTERSECTION OF HWY 21 & WESTMORELAND RD	4.89	ENE	186	SI	MCGUIRE FISHING ACCESS ROAD ON PENINSULA	0.24	NNW
161	OR	SAM FURR ROAD & HWY 21	4.70	E	187	SI	ENERGY EXPLORIUM / AIR SITE # 195	0.19	N
162	OR	RANSON ROAD	4.53	ESE	191	SI	PENINSULA DEV. / JOHN CONNOR ROAD	2.84	NNE
163	OR	MCCOY ROAD	4.94	SE					

(a) The purpose of this sample is to obtain background information. If it is not practical to establish control locations in accordance with the distance and wind direction criteria, other sites that provide valid background data may be substituted.

(b) One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. The forty stations is not an absolute number. The number of direct radiation monitoring stations may be reduced according to geographical limitations; e.g., at an ocean site, some sections will be over water so that the number of dosimeters may be reduced accordingly. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information with minimal fading.

(c) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	BroadLeaf Vegetation (pCi/kg-wet)
H-3	20,000 ^{(a)(b)}				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	2	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

(a) For drinking water samples. This is 40CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

(b) H-3 Reporting level not applicable to surface water

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic ^(d)	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X				
Air Particulate	Weekly				(c)	
	Quarterly Composite	X				
Direct Radiation (TLD)	Quarterly					X
Surface Water	Monthly Composite ^(e)	X				
	Quarterly Composite		X			
Drinking Water	Monthly Composite ^(e)	X		(a)	X	
	Quarterly Composite		X			
Shoreline Sediment	Semiannually	X				
Milk	Semimonthly	X		X		
Fish	Semiannually	X				
Broadleaf Vegetation	Monthly ^(b)	X				
Food Products	Monthly ^(f)	X				

(a) Low-level I-131 analysis will be performed if the dose calculated for the consumption of drinking water is > 1 mrem per year.
An LLD of 1 pCi/liter will be required for this analysis.

(b) When Available

(c) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than ten times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.

(d) Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.

(e) A composite sample is one in which the quantity (aliquot) of liquid sampled is proportional to the quantity of flowing liquid and in which the method of sampling employed results in a specimen that is representative of the liquid flow. In this program composite sample aliquots shall be collected at time intervals that are very short (e.g., hourly) relative to the compositing period (e.g., monthly) in order to assure obtaining a representative sample.

(f) If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continuously, sampling shall be monthly. Attention shall be paid to including samples of tuberous and root food products.

TABLE 2.2-C

MAXIMUM VALUES FOR THE *A PRIORI* LOWER LIMITS OF DETECTION ^{(c)(d)}

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

(a) If no drinking water pathway exists, a value of 3,000 pCi/liter may be used.

(b) If no drinking water pathway exists, the LLD of gamma isotopic analysis may be used.

(c) Lower Limit of Detection is defined in Section 2.3.2

(d) This list does not mean that only these nuclides are to be considered. Other peaks that are identifiable, together with those of the above nuclides, shall also be analyzed and reported in the Annual Radiological Environmental Operating Report.

3.0 INTERPRETATION OF RESULTS

Review of 2023 REMP analysis results was performed to detect and identify changes in environmental levels as a result of station operation. The radionuclides with Selected Licensee Commitments reporting levels that indicate consistent detectable activity have been historically trended from preoperation to present. Analyses from 1977 - 1978 have been excluded since these results were much higher than the other preoperational years due to outside influences such as weapons testing. The preoperational analyses from 1981 were combined with the operational analyses from the latter part of 1981 and averaged to give one concentration for each radionuclide for that year. Summary tables containing 2023 information required by Technical Specification Administrative Control 5.6.2 are located in Appendix B. McGuire 2023 REMP results are located in Appendix E.

The highest annual mean concentration of applicable Selected Licensee Commitments radionuclides from the indicator locations for each media type was used for trending purposes. Trending was performed by comparing annual mean concentrations to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's SLC reporting level (Table 2.2-A). All maximum percent of reporting level values attributable to MNS plant operation were well below the 100% action level. The highest value attributable to MNS plant operations during 2023 was 4.04 % for drinking water tritium at the North Mecklenburg Water Treatment Facility (Location 101). Only Selected Licensee Commitments radionuclides were detected in 2023.

Ground water monitoring wells located on the MNS site are part of the Nuclear Energy Institute (NEI) 07-07 radiological groundwater monitoring wells and are reported in the MNS Annual Radioactive Effluent Release Report (ARERR). NEI 07-07 was developed to describe the industry's Ground Water Protection Initiative. NEI 07-07 radiological groundwater monitoring wells are used to assure timely detection and effective response to situations involving inadvertent radiological releases to ground water to prevent migration of licensed radioactive material off-site and to quantify impacts on decommissioning. These monitoring wells are not used for Radiological Environmental Monitoring Program (REMP), because they do not monitor water supply for drinking or irrigation purposes. These are not REMP wells because there is no dose associated with this pathway. The McGuire site is bounded to the west by the Catawba River channel and the hydraulic gradient for McGuire flows toward the Catawba River. Sentinel wells are installed and monitored at regular intervals for early detection purposes (NCR # 02035750).

Changes in sample location, analytical technique, and presentation of results must be considered when reviewing for trends. Calculation of the annual mean concentrations has been performed differently over the history of the REMP. During 1979-1986, all net results (sample minus background) positive and negative, were included in the calculation of the mean. Only positive net activity results were used to calculate the mean for the other years. All negative values were replaced with a zero for calculational and graphical purposes to properly represent environmental conditions. A change in gamma spectroscopy analysis systems in 1987 ended a period when many measurements yielded detectable low-level activity for both indicator and control location samples. It is possible that the method the previous system used to estimate net activity may have been vulnerable to false-positive results.

This section includes tables and graphs containing the highest annual mean concentrations of any effluent related radionuclide detected since the change in analysis systems in 1987. Any zero concentrations used in tables or graphs represent activity measurements less than detectable levels. Only the specific radionuclides that represent the highest dose contributors or demonstrate consistent detectable activity are shown graphically.

Data presented in Sections 3.1 through 3.9 support the conclusion that there was no significant increase in radioactivity in the environment around McGuire Nuclear Station due to station operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data, shown in Section 3.10, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Airborne particulate and radioiodine samples at each of seven ODCM locations were composited continuously by means of continuous air samplers. Location 106 (0.47 miles E, indicator) was officially added to the REMP as the new community location with the implementation of revision 61 of the MNS ODCM (eff. 26SEP2022). Location 103, Cottonwood Substation (4.20 miles NE) was removed from the REMP with the implementation of revision 61 of the MNS ODCM as it no longer served as the community air sampling location and was supplemental (NCR # 02335752).

Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly.

In 2023, 363 radioiodine and particulate samples were analyzed, 311 from 6 indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). The radioiodine samples received a weekly gamma analysis. K-40 and Be-7 observed in air samples are naturally occurring radionuclides.

Gross beta analyses indicated $2.32\text{E-}2$ pCi/m³ at the location with the highest annual mean and $2.29\text{E-}2$ pCi/m³ at the control location. No detectable gamma activity attributable to MNS plant operation was detected in any air samples in 2023 and has not been detected since 2004. Figure 3.1 shows gross beta highest annual mean indicator and control location concentrations since 1985. There is no reporting level for gross beta. Table 3.1-A shows indicator and control location highest annual means for Cs-137 and gross beta.

Table 3.1-B gives indicator location highest annual means and control means since 1979 for I-131. No I-131 activity due to MNS plant operation has been detected since 1989. Since no activity was detected in 2023, no reporting levels were approached.

Figure 3.1

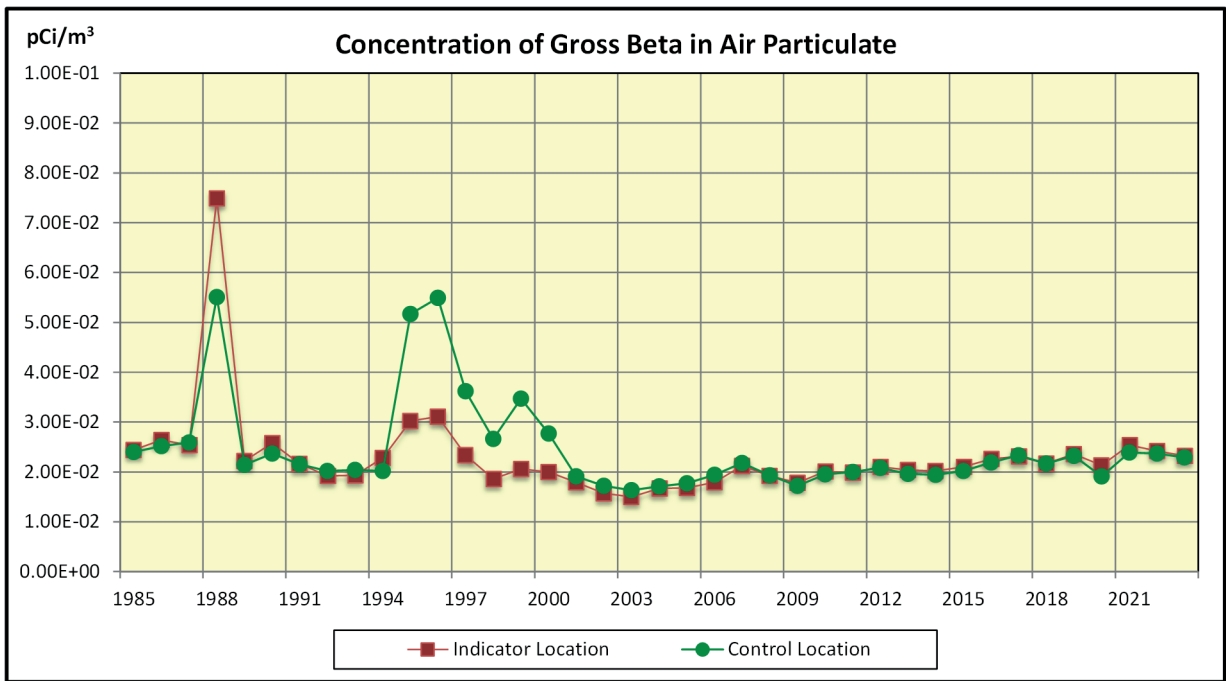


Table 3.1-A Mean Concentrations of Radionuclides in Air Particulate

YEAR	Cs-137 Indicator (pCi/m³)	Cs-137 Control (pCi/m³)	Beta Indicator (pCi/m³)	Beta Control (pCi/m³)
1979*	4.40E-3	1.47E-3	Not Performed	Not Performed
1980*	6.70E-3	4.53E-3	Not Performed	Not Performed
1981*	6.16E-3	5.32E-3	Not Performed	Not Performed
1982*	3.82E-3	2.29E-3	Not Performed	Not Performed
1983*	2.93E-3	3.21E-3	Not Performed	Not Performed
1984	1.74E-3	8.29E-4	Not Performed	Not Performed
1985	1.86E-3	1.32E-3	2.44E-2	2.40E-2
1986	4.98E-3	3.03E-3	2.64E-2	2.52E-2
1987 ⁽¹⁾	1.07E-2	7.91E-3	2.54E-2	2.59E-2
1988	0.00E0	0.00E0	7.49E-2	5.51E-2
1989	0.00E0	0.00E0	2.22E-2	2.14E-2
1990	0.00E0	0.00E0	2.58E-2	2.37E-2
1991	0.00E0	0.00E0	2.16E-2	2.15E-2
1992	0.00E0	0.00E0	1.92E-2	2.02E-2
1993	0.00E0	0.00E0	1.93E-2	2.04E-2
1994	0.00E0	0.00E0	2.28E-2	2.02E-2
1995	0.00E0	0.00E0	3.02E-2	5.17E-2
1996	0.00E0	0.00E0	3.11E-2	5.49E-2
1997	0.00E0	0.00E0	2.34E-2	3.62E-2
1998	0.00E0	0.00E0	1.86E-2	2.66E-2
1999	0.00E0	0.00E0	2.06E-2	3.47E-2
2000	0.00E0	0.00E0	2.00E-2	2.77E-2
2001	0.00E0	0.00E0	1.79E-2	1.91E-2
2002	0.00E0	0.00E0	1.57E-2	1.72E-2
2003	0.00E0	0.00E0	1.50E-2	1.63E-2
2004 ⁽²⁾	0.00E0	0.00E0	1.67E-2	1.71E-2
2005	0.00E0	0.00E0	1.68E-2	1.77E-2
2006	0.00E0	0.00E0	1.79E-2	1.94E-2
2007	0.00E0	0.00E0	2.12E-2	2.18E-2
2008	0.00E0	0.00E0	1.92E-2	1.93E-2
2009	0.00E0	0.00E0	1.79E-2	1.76E-2
2010	0.00E0	0.00E0	2.01E-2	1.95E-2
2011 ⁽³⁾	7.06E-3	0.00E0	1.99E-2	2.00E-2
2012	0.00E0	0.00E0	2.10E-2	2.08E-2
2013	0.00E0	0.00E0	2.04E-2	1.96E-2
2014 ⁽⁴⁾	0.00E0	0.00E0	2.02E-2	1.94E-2
2015	0.00E0	0.00E0	2.10E-2	2.02E-2
2016	0.00E0	0.00E0	2.26E-2	2.19E-2
2017	0.00E0	0.00E0	2.31E-2	2.33E-2
2018	0.00E0	0.00E0	2.17E-2	2.17E-2
2019	0.00E0	0.00E0	2.36E-2	2.32E-2
2020	0.00E0	0.00E0	2.13E-2	1.91E-2
2021	0.00E0	0.00E0	2.54E-2	2.39E-2
2022	0.00E0	0.00E0	2.42E-2	2.37E-2
2023	0.00E0	0.00E0	2.32E-2	2.29E-2

0.00E0 indicates no detectable measurements

* Radioiodine and Particulates analyzed together

(1) 1987 – Gamma spectroscopy system change

(2) 2004 – Gamma Activity observed, NCR # 01552730

(3) 2011 – Concentration affected by Fukushima Daiichi

(4) 2014 – Gamma spectroscopy system was replaced 10JUL2014 No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

Table 3.1-B Mean Concentrations of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1979*	3.28E-3	1.04E-3
1980*	2.01E-3	1.10E-3
1981*	4.17E-3	6.27E-4
1982*	1.42E-3	2.48E-3
1983*	1.99E-3	2.01E-4
1984	3.17E-3	0.00E0
1985	3.15E-3	1.04E-3
1986	1.27E-2	6.10E-3
1987 ⁽¹⁾	1.07E-2	6.60E-3
1988	0.00E0	0.00E0
1989	2.18E-2	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011 ⁽²⁾	6.00E-2	5.46E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽³⁾	0.00E0	0.00E0
2015	0.00E0	0.00E0
2016	0.00E0	0.00E0
2017	0.00E0	0.00E0
2018	0.00E0	0.00E0
2019	0.00E0	0.00E0
2020	0.00E0	0.00E0
2021	0.00E0	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

* Radioiodine and Particulate analyzed together.

(1) 1987 – Gamma spectroscopy system change

(2) 2011 – Concentration affected by Fukushima Daiichi

(3) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.2 DRINKING WATER

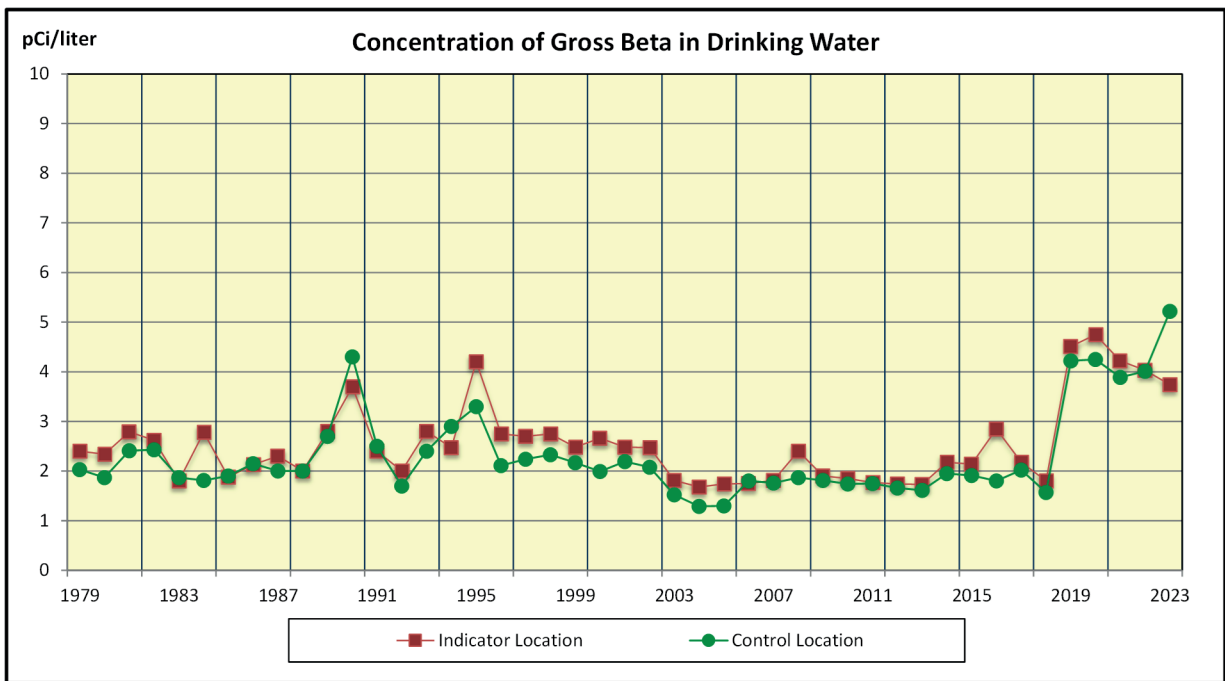
In 2023, 65 drinking water samples were analyzed for gross beta and gamma emitting radionuclides. Fifty-two samples were collected from the 4 indicator locations and 13 from the control location. Monthly composite samples were collected and received a gross beta and gamma analysis. These samples were composited to create 20 quarterly composite period samples for tritium analysis.

No detectable gamma activity attributable to MNS plant operation was found in drinking water samples in 2023 and has not been detected since 1987. K-40 was observed in some drinking water samples and is a naturally occurring radionuclide.

Figure 3.2-1 and Table 3.2 shows highest annual mean gross beta concentrations for the indicator location and control location since preoperation. Gross beta analyses indicated 3.74 pCi/l at the location with the highest annual mean and 5.22 pCi/l at the control location. The gross beta mean indicator activity and mean control activity increased in 2019 due to an analytical method change affecting analytical sensitivities (NCR # 02303031).

Tritium was detected in 13 of the 16 indicator composite samples taken in 2023. The 2023 highest mean indicator tritium concentration from location 101 was 807 pCi/liter, which is 4.04 % of the 20,000 pCi/l tritium reporting level. Tritium was not detected in any of the four control location samples. The dose for consumption of water was less than one mrem per year, historically and for 2023; therefore, low-level iodine analysis is not required. Figure 3.2-2 shows tritium highest annual mean indicator and control location concentrations with comparisons to the 20% reporting level. Table 3.2 gives indicator location highest annual means and control means since 1979 for tritium and gross beta. There is no reporting level for gross beta.

Figure 3.2-1



Analytical method change implemented in 2019.

Figure 3.2-2

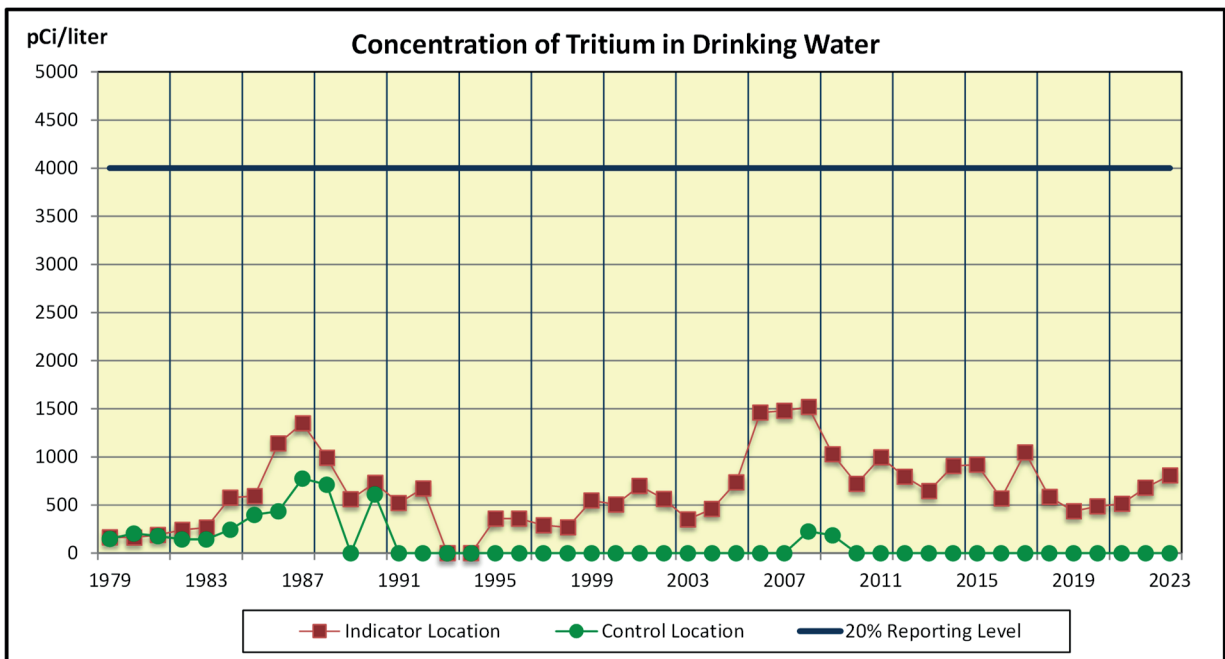


Table 3.2 Mean Concentrations of Radionuclides in Drinking Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1979	2.40E0	2.03E0	1.65E2	1.50E2
1980	2.34E0	1.87E0	1.63E2	2.05E2
1981	2.79E0	2.41E0	1.88E2	1.78E2
1982	2.62E0	2.43E0	2.43E2	1.45E2
1983	1.80E0	1.87E0	2.65E2	1.45E2
1984	2.78E0	1.81E0	5.77E2	2.45E2
1985	1.88E0	1.90E0	5.93E2	4.00E2
1986	2.13E0	2.15E0	1.14E3	4.37E2
1987	2.30E0	2.00E0	1.35E3	7.75E2
1988	2.00E0	2.00E0	9.92E2	7.11E2
1989	2.80E0	2.70E0	5.62E2	0.00E0
1990	3.70E0	4.30E0	7.32E2	6.11E2
1991	2.40E0	2.50E0	5.22E2	0.00E0
1992	2.00E0	1.70E0	6.73E2	0.00E0
1993	2.80E0	2.40E0	0.00E0	0.00E0
1994	2.47E0	2.90E0	0.00E0	0.00E0
1995	4.20E0	3.30E0	3.58E2	0.00E0
1996	2.75E0	2.11E0	3.60E2	0.00E0
1997	2.70E0	2.24E0	2.90E2	0.00E0
1998	2.75E0	2.33E0	2.68E2	0.00E0
1999 ⁽¹⁾	2.48E0	2.17E0	5.49E2	0.00E0
2000	2.66E0	1.99E0	5.04E2	0.00E0
2001	2.48E0	2.19E0	6.98E2	0.00E0
2002	2.47E0	2.08E0	5.64E2	0.00E0
2003	1.81E0	1.52E0	3.51E2	0.00E0
2004	1.68E0	1.29E0	4.61E2	0.00E0
2005	1.74E0	1.30E0	7.35E2	0.00E0
2006 ⁽²⁾	1.75E0	1.80E0	1.46E3	0.00E0
2007 ⁽³⁾	1.81E0	1.76E0	1.48E3	0.00E0
2008 ⁽³⁾	2.40E0	1.87E0	1.52E3	2.26E2
2009	1.90E0	1.81E0	1.03E3	1.86E2
2010	1.85E0	1.74E0	7.20E2	0.00E0
2011	1.77E0	1.75E0	9.97E2	0.00E0
2012	1.74E0	1.66E0	7.95E2	0.00E0
2013	1.73E0	1.61E0	6.47E2	0.00E0
2014	2.18E0	1.95E0	9.07E2	0.00E0
2015	2.14E0	1.91E0	9.19E2	0.00E0
2016	2.85E0	1.80E0	5.69E2	0.00E0
2017	2.18E0	2.02E0	1.05E3	0.00E0
2018	1.80E0	1.57E0	5.85E2	0.00E0
2019 ⁽⁴⁾	4.51E0	4.22E0	4.36E2	0.00E0
2020	4.75E0	4.25E0	4.87E2	0.00E0
2021	4.22E0	3.89E0	5.12E2	0.00E0
2022	4.03E0	4.01E0	6.82E2	0.00E0
2023	3.74E0	5.22E0	8.07E2	0.00E0

0.00E0 indicates no detectable measurements

(1) Location 101 added to the REMP

(2) Increase in tritium releases due to silica removal from spent fuel pools resulting in additional water volume release.

(3) Extreme drought conditions affecting the Catawba River Basin resulting in less dilution volume

(4) Gross beta preparation/analysis methodology change (NCR # 02303031)

3.3 SURFACE WATER

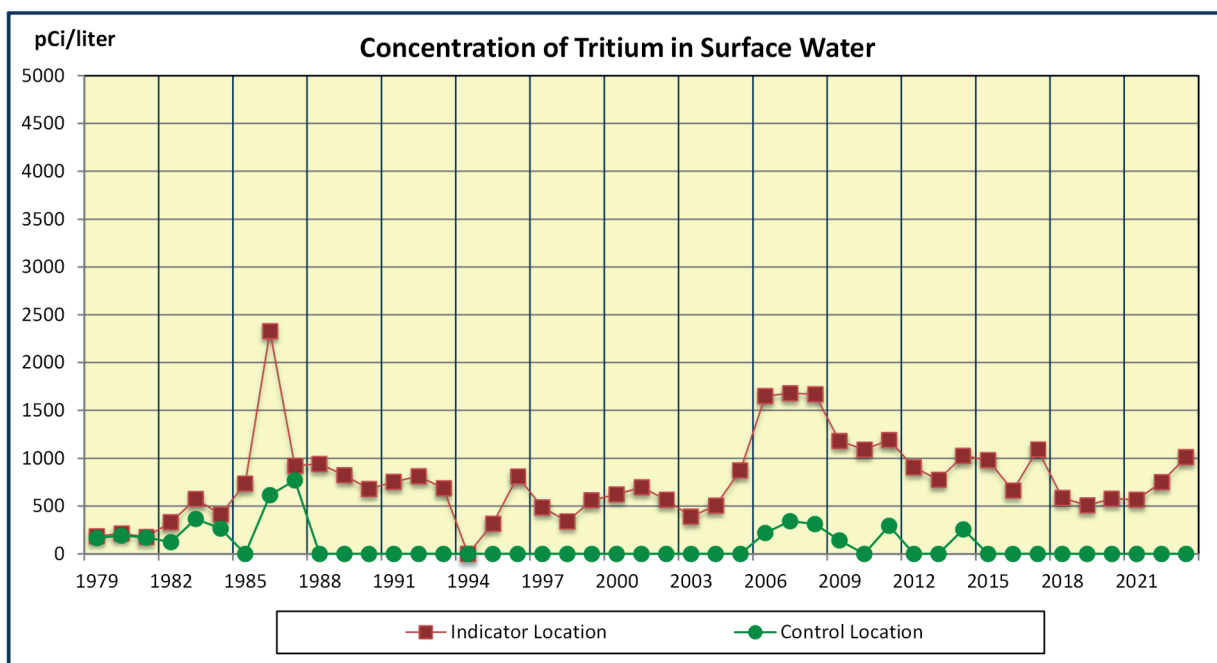
In 2023, 39 surface water samples were analyzed for gamma emitting radionuclides, 26 at the 2 indicator locations and 13 at the control location. Monthly composite samples were collected and received a gamma analysis. The samples were composited to create 12 quarterly composite period samples for tritium analysis.

As an enhancement to the REMP, battery powered composite water samplers connected to solar panels were tested for two years in tandem (same physical location) with the electrical grid powered composite water samplers at MNS surface water locations 128 (Discharge Canal Bridge 0.45 miles NE) and 135 (Plant Marshall Intake 11.9 miles N). The battery/solar powered composite samplers were found to be more reliable with no deviations to the REMP whereas the electrical grid powered composite water samplers had several deviations due to power interruptions. This study was presented to MNS Station Sciences REMP Staff and it was agreed that the electrical grid powered composite samplers would be retired in place as of 5SEP2023. The electrical grid composite samplers remain in place, as well as the submersible pump with the reservoir overflowing so they can be utilized if required (NCR# 02482341).

No detectable gamma activity attributable to MNS plant operation was found in surface water samples in 2023 and has not been detected since 1988. K-40 was observed in some surface water samples and is a naturally occurring radionuclide. Tritium was detected in all 8 indicator composite samples taken in 2023. The 2023 average concentration was 743 pCi/liter. The individual samples ranged from 372 to 1,120 pCi/liter. Location 128 had the highest annual mean concentration of tritium, 1.01E3 pCi/liter. Tritium was not detected in any of the 4 control location composite samples in 2023.

Figure 3.3 shows tritium highest annual mean indicator and control location concentrations. Table 3.3 gives indicator and control location highest annual means since 1979 for tritium.

Figure 3.3



There is no reporting level for tritium in surface water

Table 3.3 Mean Concentrations of Tritium in Surface Water

YEAR	H-3 Indicator (pCi/l)	H-3 Control (pCi/l)
1979	1.85E2	1.66E2
1980	2.13E2	1.93E2
1981	1.75E2	1.70E2
1982	3.30E2	1.23E2
1983	5.75E2	3.67E2
1984	4.10E2	2.65E2
1985	7.33E2	0.00E0
1986	2.33E3	6.13E2
1987	9.20E2	7.70E2
1988	9.40E2	0.00E0
1989	8.22E2	0.00E0
1990	6.77E2	0.00E0
1991	7.53E2	0.00E0
1992	8.13E2	0.00E0
1993	6.85E2	0.00E0
1994	0.00E0	0.00E0
1995	3.15E2	0.00E0
1996	8.08E2	0.00E0
1997	4.85E2	0.00E0
1998	3.40E2	0.00E0
1999	5.60E2	0.00E0
2000	6.22E2	0.00E0
2001	6.98E2	0.00E0
2002	5.65E2	0.00E0
2003	3.91E2	0.00E0
2004	5.04E2	0.00E0
2005	8.74E2	0.00E0
2006 ⁽¹⁾	1.65E3	2.19E2
2007 ⁽²⁾	1.68E3	3.42E2
2008 ⁽²⁾	1.67E3	3.13E2
2009	1.18E3	1.41E2
2010	1.09E3	0.00E0
2011	1.19E3	2.94E2
2012	9.06E2	0.00E0
2013	7.73E2	0.00E0
2014	1.03E3	2.57E2
2015	9.79E2	0.00E0
2016	6.63E2	0.00E0
2017	1.09E3	0.00E0
2018	6.85E2	0.00E0
2019	5.07E2	0.00E0
2020	5.76E2	0.00E0
2021	5.67E2	0.00E0
2022	7.50E2	0.00E0
2023	1.01E3	0.00E0

0.00E0 indicates no detectable measurements

(1) Increase in tritium releases due to silica removal from spent fuel pools resulting in additional water volume release.

(2) Extreme drought conditions affecting the Catawba River Basin resulting in less dilution volume

3.4 MILK

In 2023, 26 milk samples from the control location were analyzed for low level I-131 and other gamma emitting radionuclides. Biweekly grab samples were collected at one location and each received a gamma and low-level Iodine-131 (LLI-131) analysis. No indicator dairies were sampled during 2023 and none were identified by the 2023 land use census.

There were no gamma emitting radionuclides due to MNS plant operations identified in milk samples in 2023. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1990 (excluding Fukushima Daiichi). Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period.

Table 3.4 gives indicator location highest annual means and control means since 1979 for Cs-137. Since no Cs-137 was detected in 2023, no reporting levels were approached.

K-40 observed in milk samples is a naturally occurring radionuclide.

Table 3.4 Mean Concentrations of Cs-137 in Milk

YEAR	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
1979	2.48E1	6.04E0
1980	1.72E1	4.13E0
1981	2.04E1	4.15E0
1982	1.21E1	5.20E0
1983	2.01E1	2.82E0
1984	1.48E1	2.56E0
1985	1.42E1	2.72E0
1986	3.74E0	3.45E0
1987 ⁽¹⁾	5.20E0	8.60E0
1988	3.40E0	2.90E0
1989	6.00E0	5.60E0
1990	5.30E0	2.60E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	No Indicator Location	0.00E0
2003	No Indicator Location	0.00E0
2004	No Indicator Location	0.00E0
2005	No Indicator Location	0.00E0
2006	No Indicator Location	0.00E0
2007	No Indicator Location	0.00E0
2008	No Indicator Location	0.00E0
2009	No Indicator Location	0.00E0
2010	No Indicator Location	0.00E0
2011	No Indicator Location	0.00E0
2012	No Indicator Location	0.00E0
2013	No Indicator Location	0.00E0
2014 ⁽²⁾	No Indicator Location	0.00E0
2015	No Indicator Location	0.00E0
2016	No Indicator Location	0.00E0
2017	No Indicator Location	0.00E0
2018	No Indicator Location	0.00E0
2019	No Indicator Location	0.00E0
2020	No Indicator Location	0.00E0
2021	No Indicator Location	0.00E0
2022	No Indicator Location	0.00E0
2023	No Indicator Location	0.00E0

0.00E0 indicates no detectable measurements

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.5 BROADLEAF VEGETATION

In 2023, 48 broadleaf vegetation samples were analyzed, 36 at the three indicator locations and 12 at the control location. Monthly samples were collected as available and each received a gamma analysis.

There were no gamma emitting radionuclides attributable to MNS plant operation identified in any indicator or control location broadleaf vegetation samples in 2023. Cs-137 is the only radionuclide, other than naturally occurring, reported in vegetation samples since the change in gamma spectroscopy analysis systems in 1987. No airborne Cs-137 has been released from the plant since 1998.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

K-40 and Be-7 observed in broadleaf vegetation samples are naturally occurring radionuclides.

Table 3.5 Mean Concentrations of Cs-137 in Broadleaf Vegetation

YEAR	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
1979	2.19E1	1.93E1
1980	2.30E1	1.92E1
1981	3.04E1	2.02E1
1982	2.46E1	1.22E1
1983	9.07E0	7.85E0
1984	1.02E1	1.05E1
1985	8.05E0	2.37E-2
1986	4.03E1	1.27E1
1987 ⁽¹⁾	2.20E1	1.70E1
1988	3.90E1	3.40E1
1989	9.60E1	0.00E0
1990	4.00E1	0.00E0
1991	3.30E1	0.00E0
1992	4.90E1	0.00E0
1993	1.60E1	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	2.69E1
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	2.98E1	0.00E0
2007	1.34E1	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011 ⁽²⁾	2.29E1	0.00E0
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽³⁾	0.00E0	0.00E0
2015	0.00E0	0.00E0
2016	1.22E1	0.00E0
2017	3.03E1	0.00E0
2018	0.00E0	0.00E0
2019	0.00E0	0.00E0
2020	0.00E0	0.00E0
2021	0.00E0	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) 1987 – Gamma spectroscopy system change

(2) 2011 – Concentration affected by Fukushima Daiichi

(3) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.6 FOOD PRODUCTS

In 2023, 11 food products (crops) samples were analyzed from 1 indicator irrigated garden location. Monthly samples were collected as available and each received a gamma analysis. There is no control location for this media.

No detectable activity attributable to MNS station operation has been detected in this media since 1987. Table 3.6 shows Cs-137 indicator highest annual means with preoperational data. Since no activity was detected in 2023, no reporting levels were approached.

K-40 and Be-7 observed in food product samples are naturally occurring radionuclides.

Table 3.6 Mean Concentrations of Cs-137 in Food Products

YEAR	Cs-137 Indicator (pCi/kg)
1979	2.19E1
1980	2.30E1
1981	3.04E1
1982	2.46E1
1983	9.07E0
1984	8.45E0
1985	7.99E0
1986	2.15E1
1987 ⁽¹⁾	2.90E1
1988	0.00E0
1989	0.00E0
1990	0.00E0
1991	0.00E0
1992	0.00E0
1993	0.00E0
1994	0.00E0
1995	0.00E0
1996	0.00E0
1997	0.00E0
1998	0.00E0
1999	0.00E0
2000	0.00E0
2001	0.00E0
2002	0.00E0
2003	0.00E0
2004	0.00E0
2005	0.00E0
2006	0.00E0
2007	0.00E0
2008	0.00E0
2009	0.00E0
2010	0.00E0
2011 ⁽²⁾	3.06E1
2012	0.00E0
2013	0.00E0
2014 ⁽³⁾	0.00E0
2015	0.00E0
2016	0.00E0
2017	0.00E0
2018	0.00E0
2019	0.00E0
2020	0.00E0
2021	0.00E0
2022	0.00E0
2023	0.00E0

0.00E0 indicates no detectable measurements

(1) 1987 – Gamma spectroscopy system change

(2) 2011 – Concentration affected by Fukushima Daiichi

(3) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.7 FISH

In 2023, 12 fish samples were analyzed for gamma emitting radionuclides, 6 at the indicator location and 6 at the control location. Semiannual samples were collected, and a gamma analysis was performed on the edible portions of each sample. Boney fish (i.e. Sunfish) were prepared for analysis whole minus the head and tail portions.

Gamma spectroscopy analysis indicated no gamma emitting radionuclides attributable to MNS plant operation identified in any indicator or control location fish samples in 2023.

Figure 3.7 shows Cs-137 highest annual mean indicator and control location concentrations with comparisons to 5% of the reporting level. Table 3.7 gives indicator location highest annual means since 1980 for all radionuclides detected since the analysis change in 1988. All other radionuclides not shown in the table have demonstrated no detectable activity since 1986.

K-40 is a naturally occurring radionuclide observed in fish samples.

Figure 3.7

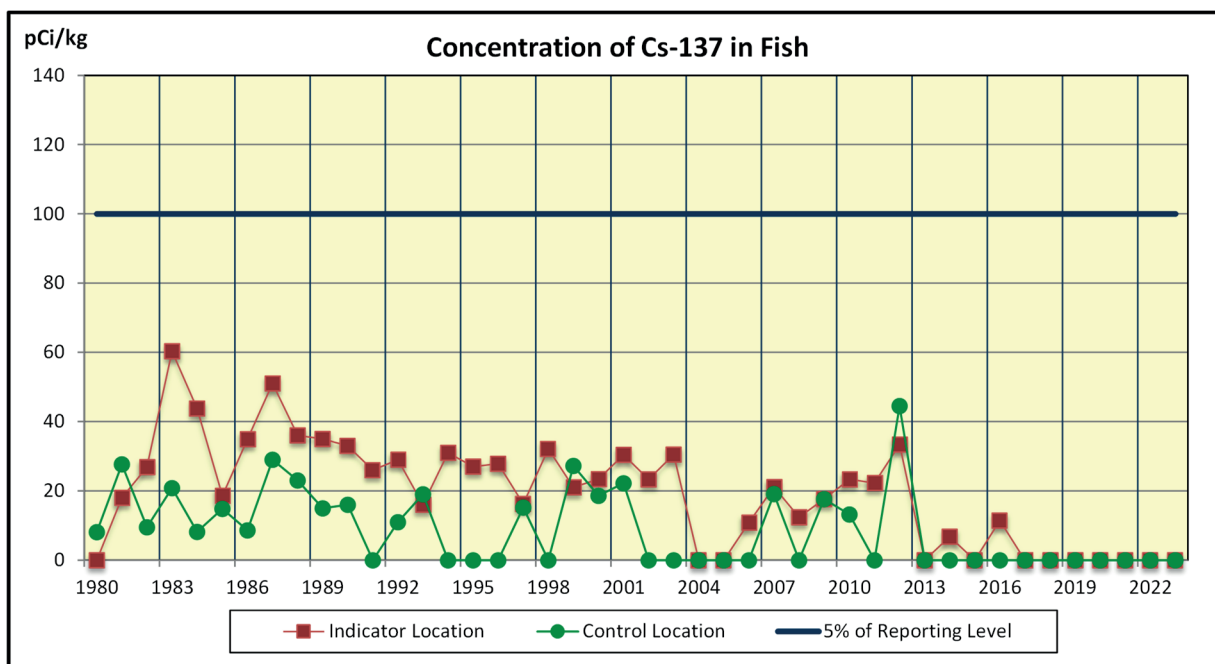


Table 3.7 Mean Concentrations of Radionuclides in Fish (pCi/kg)

YEAR	Mn-54 Indicator	Co-58 Indicator	Co-60 Indicator	Cs-134 Indicator	Cs-137 Indicator
1980	-1.97E1	8.36E0	-2.25E1	-2.70E1	-4.13E0
1981	-2.71E0	-2.98E0	-2.65E0	-1.99E0	1.80E1
1982	-3.83E0	8.16E0	-4.34E-1	-8.22E-1	2.69E1
1983	-2.60E0	2.60E1	1.11E1	-1.32E0	6.03E1
1984	3.61E0	1.45E2	2.82E1	3.11E1	4.38E1
1985	2.53E-1	7.19E0	1.72E1	-1.56E0	1.86E1
1986	1.03E0	3.17E1	2.96E1	1.67E1	3.49E1
1987 ⁽¹⁾	0.00E0	2.71E2	1.25E2	2.60E1	5.10E1
1988	1.20E1	7.70E1	0.00E0	2.70E1	3.60E1
1989	9.00E1	4.05E2	2.99E2	1.10E1	3.50E1
1990	0.00E0	5.60E1	4.10E1	0.00E0	3.30E1
1991	6.20E0	1.40E1	6.50E1	5.90E0	2.60E1
1992	0.00E0	0.00E0	0.00E0	0.00E0	2.90E1
1993	0.00E0	8.20E1	1.30E1	0.00E0	1.60E1
1994	0.00E0	0.00E0	0.00E0	0.00E0	3.10E1
1995	0.00E0	0.00E0	0.00E0	0.00E0	2.70E1
1996	0.00E0	0.00E0	0.00E0	0.00E0	2.78E1
1997	0.00E0	0.00E0	0.00E0	0.00E0	1.62E1
1998	0.00E0	0.00E0	0.00E0	0.00E0	3.21E1
1999	0.00E0	3.53E1	0.00E0	0.00E0	2.10E1
2000	0.00E0	4.28E1	0.00E0	0.00E0	2.34E1
2001	0.00E0	1.32E1	0.00E0	0.00E0	3.04E1
2002	0.00E0	0.00E0	0.00E0	0.00E0	2.33E1
2003	0.00E0	0.00E0	0.00E0	0.00E0	3.05E1
2004	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2005	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	0.00E0	1.08E1
2007	0.00E0	0.00E0	0.00E0	0.00E0	2.11E1
2008	0.00E0	0.00E0	0.00E0	0.00E0	1.24E1
2009	0.00E0	0.00E0	0.00E0	0.00E0	1.76E1
2010	0.00E0	0.00E0	0.00E0	0.00E0	2.33E1
2011	0.00E0	0.00E0	0.00E0	0.00E0	2.23E1
2012	0.00E0	0.00E0	0.00E0	0.00E0	3.34E1
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	0.00E0	6.75E0
2015	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2016	0.00E0	0.00E0	0.00E0	0.00E0	1.14E1
2017	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2018	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2019	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2023	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change. (NCR # 0739995).

3.8 SHORELINE SEDIMENT

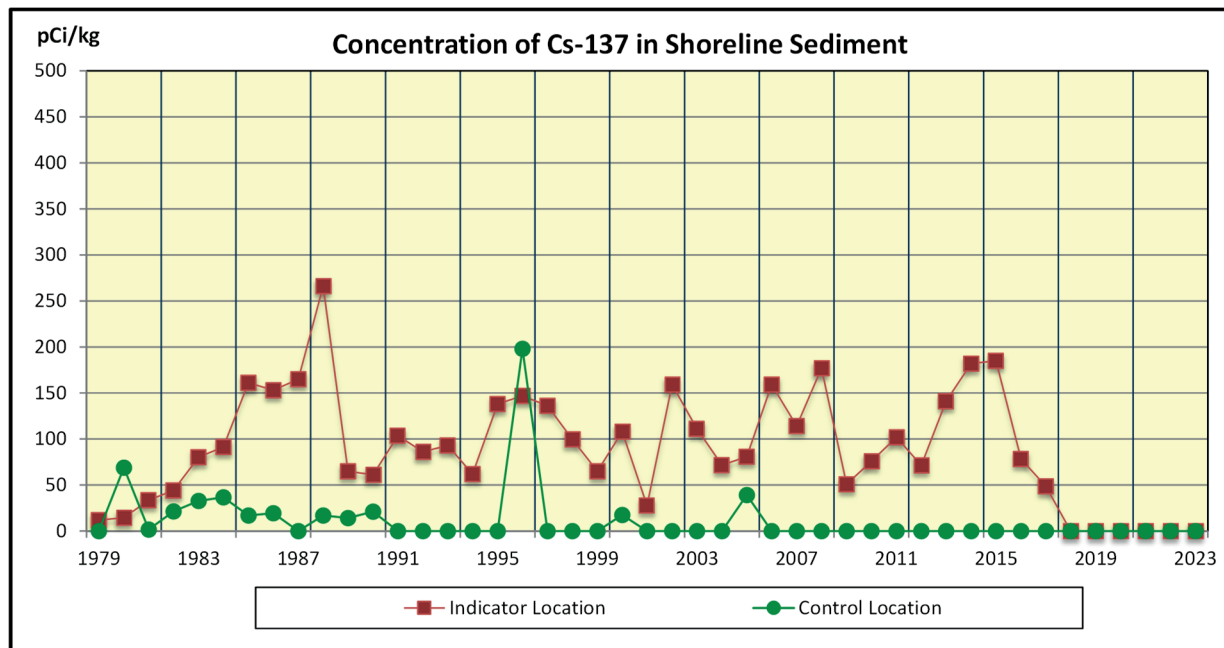
In 2023, 6 shoreline sediment samples were analyzed, 4 from 2 indicator locations and 2 at the control location. Semiannual samples were collected, and a gamma analysis was performed on each following the drying and removal of rocks and clams.

Gamma spectroscopy analysis indicated no gamma emitting radionuclides attributable to MNS plant operation identified in any indicator or control location shoreline sediment samples in 2023.

Figure 3.8 shows Cs-137 highest annual mean indicator and control location concentrations since 1979. Table 3.8 gives indicator location highest annual means since 1979 for all radionuclides detected since the analysis change in 1988. There is no reporting level for shoreline sediment.

K-40 and Be-7 observed in shoreline samples are naturally occurring radionuclides.

Figure 3.8



There is no reporting level for Cs-137 in shoreline sediment

Table 3.8 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

YEAR	Mn-54 Indicator	Co-58 Indicator	Co-60 Indicator	Cs-134 Indicator	Cs-137 Indicator
1979	-1.07E1	2.25E1	-6.50E0	0.00E0	1.20E1
1980	1.06E1	-8.74E0	2.36E1	-3.53E0	1.44E1
1981	2.13E1	1.20E1	8.21E0	3.97E1	3.36E1
1982	5.38E1	1.66E1	-1.69E0	7.67E1	4.40E1
1983	4.40E0	3.43E1	2.12E1	7.65E1	8.02E1
1984	1.19E1	7.11E1	3.04E1	3.34E1	9.13E1
1985	4.77E0	1.46E1	9.20E0	2.02E1	1.61E2
1986	1.37E1	1.02E1	1.16E1	6.35E1	1.53E2
1987 ⁽¹⁾	0.00E0	1.06E2	2.10E1	4.20E1	1.65E2
1988	6.50E0	9.20E1	1.20E1	9.10E0	2.66E2
1989	2.90E1	3.80E1	2.90E1	5.30E1	6.50E1
1990	3.80E1	2.70E1	1.68E2	0.00E0	6.10E1
1991	2.80E1	5.30E1	1.31E2	0.00E0	1.03E2
1992	9.40E0	0.00E0	5.10E1	9.20E0	8.60E1
1993	0.00E0	2.20E1	8.60E1	0.00E0	9.30E1
1994	4.10E1	0.00E0	0.00E0	0.00E0	8.00E1
1995	1.70E1	0.00E0	2.30E1	0.00E0	1.38E2
1996	2.90E1	1.78E1	3.50E1	0.00E0	1.47E2
1997	0.00E0	0.00E0	1.11E2	3.10E1	1.36E2
1998	0.00E0	0.00E0	5.21E1	0.00E0	9.97E1
1999	0.00E0	2.47E1	8.49E1	0.00E0	6.51E1
2000	0.00E0	3.04E1	0.00E0	0.00E0	1.08E2
2001	0.00E0	0.00E0	0.00E0	0.00E0	2.77E1
2002	2.24E1	0.00E0	0.00E0	0.00E0	1.59E2
2003	0.00E0	0.00E0	0.00E0	0.00E0	1.11E2
2004	0.00E0	0.00E0	0.00E0	0.00E0	7.17E1
2005	0.00E0	0.00E0	0.00E0	0.00E0	8.08E1
2006	0.00E0	0.00E0	0.00E0	0.00E0	1.59E2
2007	0.00E0	0.00E0	0.00E0	0.00E0	1.14E2
2008	0.00E0	0.00E0	0.00E0	0.00E0	1.77E2
2009	0.00E0	0.00E0	0.00E0	0.00E0	5.08E1
2010	0.00E0	0.00E0	0.00E0	0.00E0	7.58E1
2011	0.00E0	0.00E0	0.00E0	0.00E0	1.02E2
2012	0.00E0	0.00E0	0.00E0	0.00E0	7.13E1
2013	0.00E0	0.00E0	0.00E0	0.00E0	1.41E2
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	0.00E0	1.82E2
2015	0.00E0	0.00E0	0.00E0	0.00E0	1.85E2
2016	0.00E0	0.00E0	0.00E0	0.00E0	7.84E1
2017	0.00E0	0.00E0	0.00E0	0.00E0	4.87E1
2018	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2019	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2023	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system was replaced 10JUL2014. No analytical changes were noted due to the 2014 gamma spectroscopy system change (NCR # 0739995).

3.9 DIRECT GAMMA RADIATION

3.9.1 ENVIRONMENTAL TLD

McGuire is licensed with an exclusion area boundary defined by UFSAR Section 2.1.2.1 as a 2500-foot radius from station center. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. TLD locations designated as "inner ring" are within a 0.5-mile radius from station center near the site boundary and all are used as indicators. Due to close proximity with McGuire, and most being within the exclusion area boundary, inner ring TLD locations are not good indicators of radiation exposure to a member of the public but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. TLD locations designated as "outer ring" are outside the 0.5 mile "inner ring" (6 to 8 kilometer range) but within a 5-mile radius of station center. All outer ring TLD locations are used as indicators. A subset of TLD locations are designated as "special interest." The nearest "special interest" locations are within the Owner Control Area approximately 0.2 miles from station center. They are located near public access areas for fishing and the Energy Explorium. The remaining "special interest" locations are within a 3 to 13 mile radius from station center. The one "control" location is greater than 15 miles from station center. This location was chosen to reduce the probability of influence from McGuire operation on data. The control location is not used as background subtraction in the TLD analysis. Its purpose is to provide a comparison to indicator locations.

In revision 61 of the MNS ODCM (eff. 26SEP2022), three TLD locations descriptions were changed, their physical location remained the same. The location description change was due to frequent business changes, TLD location descriptions were changed in revision 61 to more generic descriptions which did not include a business name to help identify their location. Location 160 (4.89 miles ENE), previously Anchorage Marine Showroom was renamed Intersection of Hwy 21 & Westmoreland Rd. Location 171 (3.95 miles NW), previously Triangle Ace Hardware was renamed Old Hwy 16. Location 178 (9.36 miles SE), previously Florida Steel Corporation was renamed Apprx. 0.25 mi North of Lakeview Rd/David Cox Rd on Hwy 115.

In 2023, 164 Thermoluminescent Dosimeters (TLDs) were analyzed, 160 at indicator locations and 4 at the control location. A gamma exposure rate was determined for each TLD. Transit TLDs and laboratory background TLDs were used for determining transit and laboratory background dose and were subtracted from gross field readings as required by ANSI N545-1975. TLD locations are listed in Table 2.1-B.

The environmental data on external radiation exposure for 2023 was essentially unchanged, with an average exposure for all of 2023 indicator locations of 16.6 mR per std. quarter. The TLD location with the highest annual mean of 25.2 mR per std. quarter was location 174, located 8.85 miles WNW of the station. Control TLD location 175 had an annual mean of 22.5 mR per std. quarter.

Figure 3.9 and Table 3.9 show TLD inner ring, outer ring, and control location annual averages in mR/std. quarter. Data is provided from 1979 to show preoperational values. As

shown in the graph, exposures measured by environmental TLDs show little or no change since the current TLD system was implemented. As shown in the graph, historical inner and outer ring averages compare similarly, while control data is somewhat higher. This is most likely an artifact of the underlying geologic structures at the control location.

Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within expected low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The low and high ranges are determined by the historical average $\pm$ two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)." The WP-RP-ALL-0030 – Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for the fleet TLD programs. TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. No 2023 ODCM TLD location exceeded the quarterly investigation level therefore no additional evaluation was performed. Quarterly TLD results are in Appendix E.

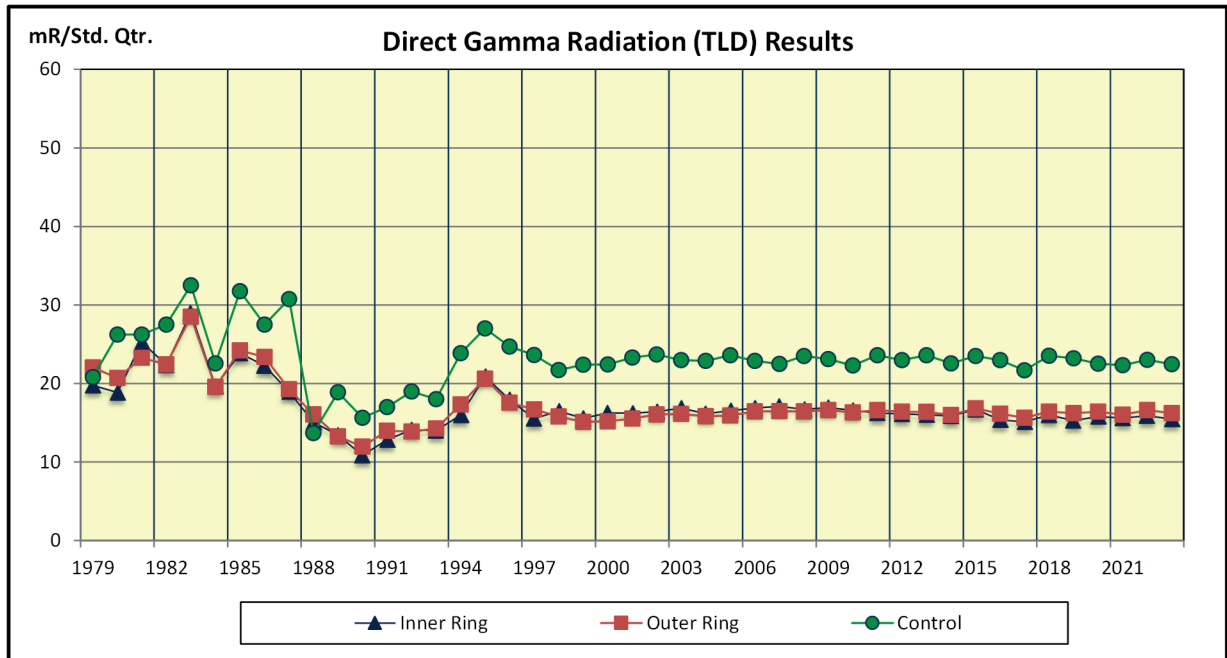
A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 4.7.

3.9.2 ISFSI

The McGuire ISFSI began operation in 2000. It is located approximately 0.15 miles west of station center in a secured area specifically constructed to provide dry storage for spent nuclear fuel. The ISFSI is situated at a lower elevation compared to other structures in the protected area. Exposure from direct radiation north of the ISFSI is shielded by the berm on the south boundary of Lake Norman. Exposure from direct radiation at the exclusion area boundary west of the ISFSI is shielded by the decrease in elevation at the ISFSI to the riverbank below Cowan's Ford Dam. These geographic features lessen the potential dose to a member of the public in accessible areas within the exclusion area boundary. The ISFSI employs the multiple vertical storage designs. Irradiated fuel assemblies are confined, protected, and shielded by reinforced concrete modules. All designs used are completely passive and designed to provide radiation shielding and safe confinement for a range of accident conditions and natural events. They each use a passive natural circulation ventilation system to remove decay heat from the modules. No radiological liquid or gaseous effluents are expected from the passive storage provided by the ISFSI. Therefore, any dose to offsite locations would be from direct and scattered gamma radiation.

Environmental TLD results described in 3.9.1 above are reviewed quarterly to identify trends and demonstrate compliance with dose and dose rate limits at the 2500-foot exclusion area boundary. Additional TLD locations not associated with REMP are presently located on the McGuire protected area fence near the ISFSI and on the ISFSI boundary. These are used to demonstrate compliance with occupational exposure controls and augment REMP TLD results. Doses measured by environmental TLDs show little or no change since the ISFSI began operation.

Figure 3.9



There is no reporting level for Direct Radiation (TLD)

Table 3.9 Direct Gamma Radiation (TLD) Results

YEAR	Inner Ring Average (mR/Std. Qtr.)	Outer Ring Average (mR/Std. Qtr.)	Control (mR/Std. Qtr.)
1979	1.98E1	2.21E1	2.08E1
1980	1.89E1 [†]	2.07E1 [†]	2.63E1 [†]
1981	2.53E1	2.33E1	2.63E1
1982	2.24E1	2.24E1	2.75E1
1983	2.90E1	2.85E1	3.25E1
1984	1.96E1	1.96E1	2.26E1
1985	2.39E1	2.42E1	3.18E1
1986	2.23E1	2.34E1	2.75E1
1987	1.90E1	1.93E1	3.08E1
1988	1.51E1	1.61E1	1.37E1
1989	1.34E1	1.33E1	1.89E1
1990	1.09E1	1.20E1	1.56E1
1991	1.29E1	1.40E1	1.70E1
1992	1.41E1	1.39E1	1.90E1
1993	1.40E1	1.43E1	1.80E1
1994	1.60E1	1.73E1	2.39E1
1995	2.09E1	2.06E1	2.70E1
1996	1.80E1	1.76E1	2.47E1
1997	1.56E1	1.67E1	2.36E1
1998	1.65E1	1.58E1	2.17E1
1999	1.56E1	1.51E1	2.24E1
2000	1.63E1	1.52E1	2.24E1
2001	1.62E1	1.56E1	2.33E1
2002	1.64E1	1.61E1	2.37E1
2003	1.69E1	1.61E1	2.30E1
2004	1.62E1	1.58E1	2.29E1
2005	1.65E1	1.59E1	2.36E1
2006	1.69E1	1.65E1	2.29E1
2007	1.71E1	1.65E1	2.25E1
2008	1.67E1	1.65E1	2.35E1
2009	1.69E1	1.66E1	2.31E1
2010	1.66E1	1.63E1	2.23E1
2011	1.63E1	1.66E1	2.36E1
2012	1.61E1	1.64E1	2.30E1
2013	1.60E1	1.64E1	2.36E1
2014	1.59E1	1.60E1	2.26E1
2015	1.67E1	1.68E1	2.35E1
2016	1.54E1	1.62E1	2.30E1
2017	1.51E1	1.56E1	2.17E1
2018	1.60E1	1.64E1	2.35E1
2019	1.53E1	1.62E1	2.32E1
2020	1.58E1	1.64E1	2.25E1
2021	1.56E1	1.60E1	2.23E1
2022	1.59E1	1.66E1	2.30E1
2023	1.55E1	1.62E1	2.25E1

[†] Values are based on two quarters due to change in TLD locations.

3.10 LAND USE CENSUS

The 2023 MNS Land Use Census (LUC) was conducted on June 19-20, 2023 during the growing season as required by SLC 16.11.14 to identify within 8 kilometers (5.0 miles) from the plant the nearest location from the site boundary in each of the sixteen meteorological sectors, the following: nearest residence, nearest garden greater than 50 square meters or 500 square feet, and the nearest milk-giving animal (cow, goat, etc.).

The primary method of performing the land use census is visual inspection from the roadside within the five (5) mile radius. This information may be supplemented with data from aerial photographs and a Global Positioning System (GPS) to determine distance and direction from the plant. Distances from the plant are accurate to within one tenth of a mile.

Table 3.10 summarizes the land use census results that was conducted within five miles of MNS. A map indicating identified locations is shown in Figure 3.10.

During the 2023 census, no new milk locations were identified. The nearest residence is in the East sector at 0.50 miles. No environmental program changes were required as a result of the 2023 land use census.

Table 3.10 McGuire 2023 Land Use Census Results

**Performed June 19-20, 2023
Nearest Pathways (Miles)**

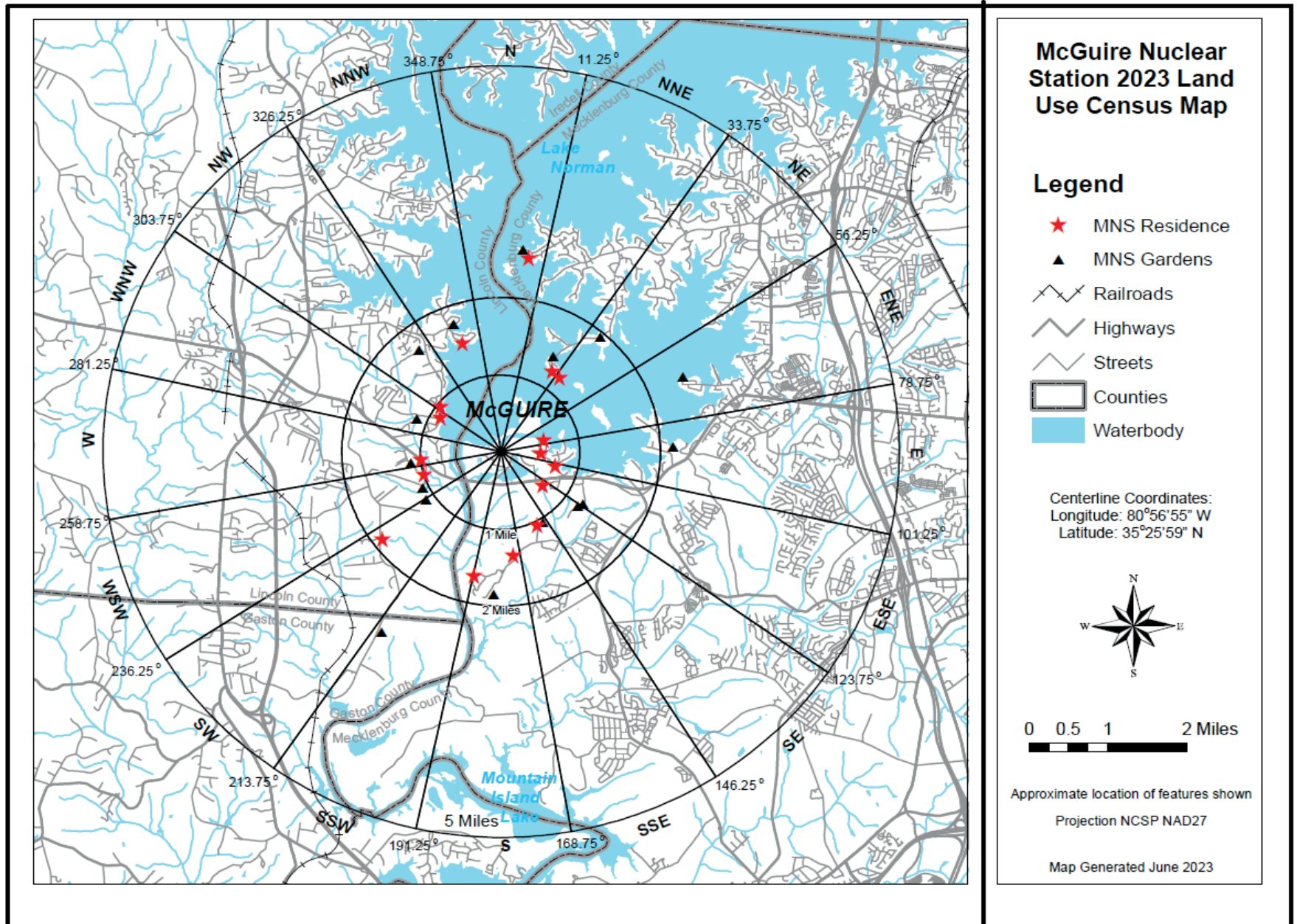
SECTOR	RESIDENCE		GARDEN		MILK ANIMAL	
	2022	2023	2022	2023	2022	2023
North	2.53	2.53	3.03	2.64*	---	---
North-Northeast	1.23	1.23	4.23	1.40*	---	---
Northeast	1.21	1.21	1.95	1.95	---	---
East-Northeast	0.56	0.56	2.50	2.50	---	---
East	0.50	0.50	2.11	2.11	---	---
East-Southeast	0.71	0.71	1.23	1.14*	---	---
Southeast	0.67	0.67	1.20	1.20	---	---
South-Southeast	1.06	1.06	1.22	1.06*	---	---
South	1.35	1.35	1.85	1.85	---	---
South-Southwest	1.64	1.64	3.30	2.79*	---	---
Southwest	1.88	1.88	1.14	1.14	---	---
West-Southwest	1.01	1.01	1.10	1.10	---	---
West	1.15	1.15	1.15	1.15	---	---
West-Northwest	0.88	0.88	1.15	1.15	---	---
Northwest	0.96	0.96	1.68	1.68	---	---
North-Northwest	1.48	1.48	1.76	1.76	---	---

Sector and distances were determined by Global Positioning System.

“---” indicates no occurrences within the 5-mile radius

* Represents a change from the previous year.

Figure 3.10



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

EnRad Laboratories and the Environmental Services Group performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include gross beta in water, low-level Iodine-131 in milk, and tritium analyses in drinking water, surface water, and ground water samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM

EnRad Laboratories routinely participates with the North Carolina Department of Health and Human Services in an intercomparison program. EnRad Laboratories sends McGuire Nuclear Plant Radiological Environmental Monitoring Program air, drinking water, surface water, milk, fish, food products, and shoreline sediment samples to the North Carolina Department of Health and Human Services, Division of Public Health for intercomparison analysis.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at McGuire Nuclear Station was required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records, and Environmental Services.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section.

I. CHANGE OF SAMPLING PROCEDURES

There were no changes to the McGuire Nuclear Station sampling procedures implemented during 2023.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) and then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly, before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or a Perkin-Elmer 3110TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance, sample preparation technique are acceptable, and sample contamination has not occurred.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a laboratory fortified blank and blank to verify instrument performance and ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

There were no changes to analysis procedures implemented during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

MCGUIRE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

McGuire Nuclear Station
Mecklenburg County, North Carolina

Docket Numbers 50-369, 370
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 363 ⁽⁴⁾	See Table 2.2-C	2.25E-2 (311/311) 1.65E-3 – 4.66E-2	120 (0.46 mi NNE)	2.32E-2 (52/52) 9.07E-3 – 4.47E-2	102 (9.89 mi WNW) 2.29E-2 (52/52) 1.07E-2 – 4.34E-2	0
	Gamma 28 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 363 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 65	See Table 2.2-C	3.59E+00 (3/52) 3.29E+00 – 3.91E+00	119 (7.40 mi SSW)	3.74E+00 (2/13) 3.56E+00 – 3.91E+00	136 (12.7 mi NNE) 5.22E+00 (1/13) 5.22E+00 – 5.22E+00	0
	Gamma 65	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium ⁽⁶⁾ 20	See Table 2.2-C	5.65E+2 (13/16) 1.77E+02 – 8.82E+02	101 (3.31 mi E)	8.07E+02 (4/4) 7.09E+02 – 8.82E+02	All less than LLD	0
Surface Water (pCi/l)	Gamma 39	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium ⁽⁶⁾ 12	See Table 2.2-C	7.43E+2 (8/8) 3.72E+02 – 1.12E+03	128 (0.45 mi NE)	1.01E+3 (4/4) 8.12E+02 – 1.12E+03	All less than LLD	0
Milk (pCi/l)	Gamma 26	See Table 2.2-C	No Indicator Location	----	----	All less than LLD	0
	I-131 26	See Table 2.2-C	No Indicator Location	----	----	All less than LLD	0

MCGUIRE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

McGuire Nuclear Station
Mecklenburg County, North Carolina

Docket Numbers 50-369, 370
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Broadleaf Vegetation (pCi/kg, wet)	Gamma 48	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Food Products (pCi/kg, wet)	Gamma 11 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	No Control Location	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Sediments--Shoreline (pCi/kg, dry)	Gamma 6	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Direct Gamma Radiation (TLD) (mR/Std Qtr)	TLD Readout 164 ^{(5) (4)}	-----	1.66E+01 (160/160) 9.37E+00 – 2.67E+01	174 (8.85 mi WNW)	2.52E+01 (4/4) 2.43E+01 – 2.57E+01	175 (15.5 mi WNW) 2.25E+01 (4/4) 1.97E+01 – 2.41E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Analytical Procedures Section/Gamma Spectrometry for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).
6. Quarterly tritium composites determined using quarter days (92 days +/- 25% (23 days)).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

MCGUIRE NUCLEAR STATION SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted, and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The air samplers operated for a total of 99.72% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
102	6/26-7/3/2023	OT	0.45 hours of downtime due equipment malfunction. Air sampler was changed out, service was restored.	NCR# 02478205
121	8/28-9/5/2023	BF	0.74 hours of downtime due to a blown fuse. Fuse was replaced, service was restored.	NCR# 02485729
106	9/5-9/11/2023	PI	2.19 hours of downtime due to power interruption from storms in the area.	NCR# 02486328
120	10/2-10/9/2023	PI	1.06 hours of downtime due to power interruption for loss of onsite power at MNS Island.	NCR# 02489808
195	10/2-10/9/2023	PI	1.08 hours of downtime due to power interruption for loss of onsite power at MNS Island.	NCR# 02489808
121	10/2-10/9/2023	PI	1.10 hours of downtime due to power interruption for loss of onsite power at MNS Island.	NCR# 02489808
106	10/2-10/9/2023	PI	1.09 hours of downtime due to power interruption for loss of onsite power at MNS Island.	NCR# 02489808
133	10/9-10/16/2023	OT	Unknown hours of downtime due sample tubing collapse which did not allow for sufficient air flow. At the time of collection air flow was near 0.0 cfm and the filter had very light loading. The filter was analyzed, so this is not an unavailable sample. Tubing was replaced, sampling was restored.	NCR # 02490607

Drinking Water and Surface Water

REMP monthly drinking water samples (Drinking Water (DW)) or surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted, and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The drinking and surface water samplers operated for a total of 100% availability in 2023.

There were no drinking water or surface water deviations in 2023.

C.2 UNAVAILABLE ANALYSES

Air Particulate and Air Radioiodine

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
133	7/31-8/7/2023	OT	169.58 hours of downtime due to filter having no loading at the time of sample collection. At the time of arrival, the sampler showed 2.0 cfm air flow and a run time of 169.58 hours which is a normal run time for the week. All connections and hoses were checked, and no issues were found. It is unknown why air flow was lost at the sample connector to prevent loading on the filter, so the sample is considered unavailable.	NCR# 02481942

Crops

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
155	2/6/2023	OT	Sample was unavailable due to a tree falling in the resident’s yard and destroying the crops.	NCR# 02459316

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

MCGUIRE NUCLEAR STATION ANALYTICAL DEVIATIONS

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

D.1 ANALYTICAL DEVIATIONS

TLDs

McGuire environmental Alpha (A) and Bravo (B) TLDs are co-located TLDs placed next to each other to comply with ANSI/HPS N13.37-2014 Section 7.1 Paragraph 7. The TLD collections indicated incurred tampering with one of the two co-located TLDs. One TLD for each collection was available and did not appear to have experienced any tampering/vandalism during the quarter. The remaining Bravo (B) TLD was collected and analyzed, but did not get averaged with the unusable Alpha (A) TLD which is normally included in the established process for the McGuire REMP TLDs.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
154	9/20–12/20/2023	OT	Bravo TLD 154 was not available at the time of collection due to not being in it's designated location at the time of collection. It was found on the ground. It appears as if the TLD fell during mowing activities in the area. Alpha TLD 154 was collected and analyzed.	NCR # 02498736

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2023.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	582695	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.49E-03	3.73E-03
Sample ID:	582993	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.02E-03	2.96E-03
Sample ID:	583178	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	3.29E-03	4.11E-03
Sample ID:	583528	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.46E-03	2.71E-03
Sample ID:	584256	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.99E-03	3.27E-03
Sample ID:	584961	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.92E-03	3.56E-03
Sample ID:	585387	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.95E-03	3.42E-03
Sample ID:	585595	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.85E-03	2.97E-03
Sample ID:	585848	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.69E-03	2.98E-03
Sample ID:	586108	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.76E-03	3.14E-03
Sample ID:	586701	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.15E-03	3.26E-03
Sample ID:	586967	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.79E-03	3.03E-03
Sample ID:	587226	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	3.06E-03	3.34E-03
Sample ID:	587484	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.49E-03	0.00E+00	1.49E-03
				Cs-137	<1.37E-03	0.00E+00	1.37E-03
				Be-7	1.45E-01	3.47E-02	2.80E-02
				K-40	<3.10E-02	0.00E+00	3.10E-02
Sample ID:	587477	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.17E-03	3.43E-03
Sample ID:	587806	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.05E-03	3.12E-03
Sample ID:	588338	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.99E-02	3.46E-03	3.03E-03
Sample ID:	588624	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.76E-03	3.10E-03
Sample ID:	589579	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.69E-03	3.15E-03
Sample ID:	589836	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.64E-03	2.78E-03
Sample ID:	590051	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.68E-03	2.79E-03
Sample ID:	590386	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.60E-03	3.23E-03
Sample ID:	590521	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	3.18E-03	3.98E-03
Sample ID:	590678	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.75E-03	2.67E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 2 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	591234	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.80E-03	2.61E-03
Sample ID:	591474	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.07E-02	2.23E-03	2.72E-03
Sample ID:	591656	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	3.12E-03	3.52E-03
Sample ID:	591869	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.24E-03	0.00E+00	1.24E-03
				Cs-137	<1.02E-03	0.00E+00	1.02E-03
				Be-7	1.27E-01	3.16E-02	2.44E-02
				K-40	<3.43E-02	0.00E+00	3.43E-02
Sample ID:	591862	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.32E-03	3.10E-03
Sample ID:	592224	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	3.08E-03	3.40E-03
Sample ID:	592442	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.66E-02	3.47E-03	3.60E-03
Sample ID:	593037	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.57E-03	3.80E-03
Sample ID:	593206	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.12E-03	3.21E-03
Sample ID:	593592	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.94E-03	3.48E-03
Sample ID:	593840	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	2.97E-03	2.57E-03
Sample ID:	594315	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.71E-02	3.91E-03	3.66E-03
Sample ID:	594827	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.66E-02	2.79E-03	2.53E-03
Sample ID:	595025	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.98E-02	3.64E-03	3.75E-03
Sample ID:	595668	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.48E-03	3.69E-03
Sample ID:	596426	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.58E-02	3.34E-03	2.73E-03
Sample ID:	596816	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.75E-03	2.89E-03
Sample ID:	597327	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.61E-03	0.00E+00	1.61E-03
				Cs-137	<1.31E-03	0.00E+00	1.31E-03
				Be-7	1.67E-01	3.78E-02	2.68E-02
				K-40	<3.32E-02	0.00E+00	3.32E-02
Sample ID:	597320	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.11E-03	2.84E-03
Sample ID:	597900	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.49E-02	3.73E-03	3.35E-03
Sample ID:	598244	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.87E-03	3.26E-03
Sample ID:	598897	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.08E-02	3.16E-03	2.72E-03
Sample ID:	599096	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.29E-02	3.70E-03	3.38E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 3 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	599494	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.34E-02	4.07E-03	3.34E-03
Sample ID:	600339	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.43E-02	3.28E-03	2.69E-03
Sample ID:	601154	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	3.19E-03	3.18E-03
Sample ID:	601316	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.68E-02	3.41E-03	2.82E-03
Sample ID:	601813	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.19E-02	3.53E-03	3.13E-03
Sample ID:	602293	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.97E-03	3.05E-03
Sample ID:	602538	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	2.99E-03	2.61E-03
Sample ID:	602745	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	3.31E-03	3.78E-03
Sample ID:	602979	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.04E-03	0.00E+00	1.04E-03
				Be-7	1.26E-01	3.39E-02	3.02E-02
				K-40	<3.99E-02	0.00E+00	3.99E-02

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID:	582696	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	3.29E-03	3.67E-03
Sample ID:	582994	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.03E-03	2.99E-03
Sample ID:	583179	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.28E-02	3.10E-03	4.03E-03
Sample ID:	583529	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.55E-03	2.75E-03
Sample ID:	584257	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.88E-03	3.20E-03
Sample ID:	584962	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.97E-03	3.65E-03
Sample ID:	585388	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.02E-03	3.36E-03
Sample ID:	585596	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.98E-03	3.01E-03
Sample ID:	585849	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.93E-03	2.93E-03
Sample ID:	586109	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.83E-03	3.18E-03
Sample ID:	586702	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.96E-03	3.21E-03
Sample ID:	586968	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.99E-03	3.08E-03
Sample ID:	587227	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.15E-03	3.38E-03
Sample ID:	587486	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.68E-03	0.00E+00	1.68E-03
				Cs-137	<1.38E-03	0.00E+00	1.38E-03
				Be-7	1.51E-01	3.48E-02	2.46E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 4 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID:	587486	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<3.02E-02	0.00E+00	3.02E-02
Sample ID:	587478	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	3.09E-03	3.41E-03
Sample ID:	587807	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.91E-03	3.04E-03
Sample ID:	588339	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.37E-03	3.09E-03
Sample ID:	588625	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.94E-03	3.13E-03
Sample ID:	589580	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.86E-03	3.14E-03
Sample ID:	589837	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	2.84E-03	2.72E-03
Sample ID:	590052	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.93E-03	2.86E-03
Sample ID:	590387	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.56E-03	3.18E-03
Sample ID:	590522	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	3.22E-03	4.07E-03
Sample ID:	590679	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	2.83E-03	2.61E-03
Sample ID:	591235	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	2.96E-03	2.66E-03
Sample ID:	591475	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.74E-03	2.17E-03	2.72E-03
Sample ID:	591657	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.30E-03	3.52E-03
Sample ID:	591870	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.26E-03	0.00E+00	1.26E-03
				Cs-137	<1.21E-03	0.00E+00	1.21E-03
				Be-7	1.71E-01	3.68E-02	2.35E-02
				K-40	<3.06E-02	0.00E+00	3.06E-02
Sample ID:	591863	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.36E-03	3.03E-03
Sample ID:	592225	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	3.31E-03	3.46E-03
Sample ID:	592443	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.67E-02	3.48E-03	3.61E-03
Sample ID:	593038	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.21E-02	3.76E-03	3.79E-03
Sample ID:	593207	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.19E-03	3.15E-03
Sample ID:	593593	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	3.06E-03	3.56E-03
Sample ID:	593841	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	2.97E-03	2.57E-03
Sample ID:	594316	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.64E-02	3.89E-03	3.66E-03
Sample ID:	594828	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	2.72E-03	2.50E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 5 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID:	595026	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.08E-02	3.75E-03	3.85E-03
Sample ID:	595669	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.57E-02	3.43E-03	3.63E-03
Sample ID:	596427	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.29E-02	3.27E-03	2.78E-03
Sample ID:	596817	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.56E-02	2.54E-03	2.89E-03
Sample ID:	597328	Sample Dates: 7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.93E-03	0.00E+00	1.93E-03
			Cs-137	<1.95E-03	0.00E+00	1.95E-03
			Be-7	1.17E-01	3.45E-02	3.57E-02
			K-40	<3.50E-02	0.00E+00	3.50E-02
Sample ID:	597321	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.78E-02	3.09E-03	2.85E-03
Sample ID:	597901	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.27E-02	3.65E-03	3.36E-03
Sample ID:	598245	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.71E-02	2.90E-03	3.28E-03
Sample ID:	598898	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.69E-02	2.99E-03	2.70E-03
Sample ID:	599097	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.95E-02	3.58E-03	3.41E-03
Sample ID:	599495	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.91E-02	3.89E-03	3.31E-03
Sample ID:	600340	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.86E-02	3.06E-03	2.69E-03
Sample ID:	601155	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.00E-02	3.02E-03	3.21E-03
Sample ID:	601317	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.46E-02	3.34E-03	2.83E-03
Sample ID:	601814	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.71E-02	3.32E-03	3.13E-03
Sample ID:	602294	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.37E-02	3.04E-03	3.10E-03
Sample ID:	602539	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.15E-02	2.76E-03	2.56E-03
Sample ID:	602746	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.71E-02	3.23E-03	3.80E-03
Sample ID:	602980	Sample Dates: 10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.59E-03	0.00E+00	1.59E-03
			Cs-137	<1.30E-03	0.00E+00	1.30E-03
			Be-7	1.31E-01	3.62E-02	3.65E-02
			K-40	<3.39E-02	0.00E+00	3.39E-02

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	582697	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.06E-02	3.37E-03	3.67E-03
Sample ID:	582995	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.99E-02	2.86E-03	2.99E-03
Sample ID:	583180	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.79E-02	3.37E-03	4.01E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 6 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	583530	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.50E-03	2.76E-03
Sample ID:	584258	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.02E-03	3.19E-03
Sample ID:	584963	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	3.04E-03	3.64E-03
Sample ID:	585389	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.08E-03	3.35E-03
Sample ID:	585597	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.97E-03	3.02E-03
Sample ID:	585850	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.89E-03	2.95E-03
Sample ID:	586110	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.94E-03	3.18E-03
Sample ID:	586703	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.02E-03	3.19E-03
Sample ID:	586969	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.98E-03	3.11E-03
Sample ID:	587228	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.25E-03	3.38E-03
Sample ID:	587487	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.07E-03	0.00E+00	2.07E-03
				Cs-137	<1.70E-03	0.00E+00	1.70E-03
				Be-7	1.52E-01	4.08E-02	4.29E-02
				K-40	<1.98E-02	0.00E+00	1.98E-02
Sample ID:	587479	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.15E-03	3.41E-03
Sample ID:	587808	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.96E-03	3.02E-03
Sample ID:	588340	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.84E-02	3.44E-03	3.11E-03
Sample ID:	588626	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.86E-03	3.13E-03
Sample ID:	589581	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.85E-03	3.13E-03
Sample ID:	589838	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.70E-03	2.71E-03
Sample ID:	590053	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.00E-03	2.88E-03
Sample ID:	590388	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.07E-03	2.35E-03	3.16E-03
Sample ID:	590523	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	3.16E-03	4.11E-03
Sample ID:	590680	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	2.81E-03	2.58E-03
Sample ID:	591236	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	2.95E-03	2.68E-03
Sample ID:	591476	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.20E-03	2.72E-03
Sample ID:	591658	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.26E-03	3.53E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 7 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 591871	Sample Dates: 4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.48E-03	0.00E+00	1.48E-03
		Cs-137	<1.05E-03	0.00E+00	1.05E-03
		Be-7	1.50E-01	3.65E-02	3.23E-02
		K-40	<2.56E-02	0.00E+00	2.56E-02
Sample ID: 591864	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.90E-02	3.35E-03	3.01E-03
Sample ID: 592226	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.24E-02	3.25E-03	3.48E-03
Sample ID: 592444	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.41E-02	3.37E-03	3.61E-03
Sample ID: 593039	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.48E-02	3.46E-03	3.78E-03
Sample ID: 593208	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.98E-02	2.97E-03	3.13E-03
Sample ID: 593594	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.89E-02	3.12E-03	3.59E-03
Sample ID: 593842	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.32E-02	2.81E-03	2.58E-03
Sample ID: 594317	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.21E-02	4.10E-03	3.66E-03
Sample ID: 594829	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.45E-02	2.72E-03	2.54E-03
Sample ID: 595027	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.86E-02	3.58E-03	3.72E-03
Sample ID: 595670	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.51E-02	3.39E-03	3.61E-03
Sample ID: 596428	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.67E-02	3.42E-03	2.79E-03
Sample ID: 596818	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.52E-02	2.53E-03	2.91E-03
Sample ID: 597329	Sample Dates: 7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.66E-03	0.00E+00	1.66E-03
		Cs-137	<1.60E-03	0.00E+00	1.60E-03
		Be-7	1.94E-01	4.40E-02	3.92E-02
		K-40	<3.09E-02	0.00E+00	3.09E-02
Sample ID: 597322	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.83E-02	3.12E-03	2.85E-03
Sample ID: 597902	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.55E-02	3.75E-03	3.35E-03
Sample ID: 598246	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.59E-02	2.84E-03	3.28E-03
Sample ID: 598899	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.66E-02	2.99E-03	2.70E-03
Sample ID: 599098	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.16E-02	3.67E-03	3.41E-03
Sample ID: 599496	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.47E-02	4.09E-03	3.30E-03
Sample ID: 600341	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.05E-02	3.13E-03	2.69E-03
Sample ID: 601156	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.23E-02	3.13E-03	3.21E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 8 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	601318	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.05E-02	3.55E-03	2.82E-03
Sample ID:	601815	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.18E-02	3.53E-03	3.13E-03
Sample ID:	602295	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.07E-03	3.09E-03
Sample ID:	602540	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.80E-03	2.56E-03
Sample ID:	602747	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.41E-03	3.80E-03
Sample ID:	602981	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.63E-03	0.00E+00	1.63E-03
				Cs-137	<1.45E-03	0.00E+00	1.45E-03
				Be-7	1.34E-01	3.91E-02	4.33E-02
				K-40	2.48E-02	1.41E-02	1.37E-02

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	582698	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	3.01E-03	3.67E-03
Sample ID:	582996	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.83E-03	2.99E-03
Sample ID:	583181	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	3.12E-03	4.03E-03
Sample ID:	583531	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.45E-03	2.75E-03
Sample ID:	584259	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.70E-03	3.20E-03
Sample ID:	584964	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	2.87E-03	3.64E-03
Sample ID:	585390	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.82E-03	3.36E-03
Sample ID:	585598	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.82E-03	3.02E-03
Sample ID:	585851	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.77E-03	2.94E-03
Sample ID:	586111	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.77E-03	3.18E-03
Sample ID:	586704	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.93E-03	3.21E-03
Sample ID:	586970	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.09E-03	3.09E-03
Sample ID:	587229	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.17E-03	3.38E-03
Sample ID:	587488	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.10E-03	0.00E+00	2.10E-03
				Cs-137	<1.38E-03	0.00E+00	1.38E-03
				Be-7	1.37E-01	3.61E-02	3.32E-02
				K-40	1.70E-02	1.55E-02	2.28E-02
Sample ID:	587480	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.14E-03	3.41E-03
Sample ID:	587809	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.95E-03	3.08E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 9 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	588341	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.20E-03	3.06E-03
Sample ID:	588627	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.76E-03	3.13E-03
Sample ID:	589582	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.67E-03	3.14E-03
Sample ID:	589839	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.56E-03	2.72E-03
Sample ID:	590054	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.77E-03	2.86E-03
Sample ID:	590389	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.36E-02	2.59E-03	3.17E-03
Sample ID:	590524	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	3.10E-03	4.08E-03
Sample ID:	590681	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	2.74E-03	2.60E-03
Sample ID:	591237	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	2.88E-03	2.67E-03
Sample ID:	591477	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.20E-02	2.30E-03	2.72E-03
Sample ID:	591659	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.20E-03	3.52E-03
Sample ID:	591872	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.81E-03	0.00E+00	1.81E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.33E-01	3.36E-02	2.87E-02
				K-40	<3.37E-02	0.00E+00	3.37E-02
Sample ID:	591865	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.86E-02	3.35E-03	3.02E-03
Sample ID:	592227	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.21E-03	3.46E-03
Sample ID:	592445	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.46E-03	3.61E-03
Sample ID:	593040	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.63E-03	3.78E-03
Sample ID:	593209	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.33E-03	3.15E-03
Sample ID:	593595	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.24E-03	3.57E-03
Sample ID:	593843	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.05E-03	2.57E-03
Sample ID:	594318	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.77E-02	3.93E-03	3.66E-03
Sample ID:	594830	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.64E-03	2.54E-03
Sample ID:	595028	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.43E-03	3.72E-03
Sample ID:	595671	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.27E-03	3.62E-03
Sample ID:	596429	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.43E-02	3.31E-03	2.78E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 10 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	596819	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.49E-03	2.90E-03
Sample ID:	597330	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.29E-03	0.00E+00	1.29E-03
				Cs-137	<1.89E-03	0.00E+00	1.89E-03
				Be-7	1.09E-01	3.55E-02	4.10E-02
				K-40	<3.00E-02	0.00E+00	3.00E-02
Sample ID:	597323	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.80E-02	3.10E-03	2.85E-03
Sample ID:	597903	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.35E-02	3.68E-03	3.36E-03
Sample ID:	598247	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.76E-03	3.28E-03
Sample ID:	598900	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.77E-02	3.03E-03	2.70E-03
Sample ID:	599099	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.64E-02	3.86E-03	3.41E-03
Sample ID:	599497	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.66E-02	4.16E-03	3.31E-03
Sample ID:	600342	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.27E-02	3.22E-03	2.69E-03
Sample ID:	601157	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.23E-03	3.21E-03
Sample ID:	601319	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.37E-02	3.66E-03	2.82E-03
Sample ID:	601816	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.45E-02	3.64E-03	3.13E-03
Sample ID:	602296	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.07E-03	3.09E-03
Sample ID:	602541	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.00E-03	2.56E-03
Sample ID:	602748	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.43E-03	3.80E-03
Sample ID:	602982	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.23E-03	0.00E+00	1.23E-03
				Cs-137	<1.53E-03	0.00E+00	1.53E-03
				Be-7	1.21E-01	3.37E-02	3.26E-02
				K-40	<3.21E-02	0.00E+00	3.21E-02

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	582699	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	3.26E-03	3.67E-03
Sample ID:	582997	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.89E-02	3.25E-03	2.98E-03
Sample ID:	583182	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	3.34E-03	4.03E-03
Sample ID:	583532	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.64E-03	2.75E-03
Sample ID:	584260	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.03E-03	3.20E-03
Sample ID:	584965	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.96E-03	3.64E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 11 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	585391	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.09E-03	3.36E-03
Sample ID:	585599	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.96E-03	3.01E-03
Sample ID:	585852	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.82E-03	2.93E-03
Sample ID:	586112	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.96E-03	3.18E-03
Sample ID:	586705	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.10E-02	3.07E-03	3.22E-03
Sample ID:	586971	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.99E-03	3.07E-03
Sample ID:	587230	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.18E-03	3.38E-03
Sample ID:	587489	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.90E-03	0.00E+00	1.90E-03
				Cs-137	<1.33E-03	0.00E+00	1.33E-03
				Be-7	1.78E-01	3.85E-02	2.73E-02
				K-40	<4.01E-02	0.00E+00	4.01E-02
Sample ID:	587481	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	3.24E-03	3.41E-03
Sample ID:	587810	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.04E-03	3.05E-03
Sample ID:	588342	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.07E-02	3.53E-03	3.08E-03
Sample ID:	588628	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.83E-03	3.13E-03
Sample ID:	589583	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.75E-03	3.14E-03
Sample ID:	589840	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	2.76E-03	2.73E-03
Sample ID:	590055	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.01E-03	2.85E-03
Sample ID:	590390	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.60E-03	3.19E-03
Sample ID:	590525	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.20E-02	3.06E-03	4.06E-03
Sample ID:	590682	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.77E-03	2.62E-03
Sample ID:	591238	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	2.91E-03	2.66E-03
Sample ID:	591478	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.17E-03	2.14E-03	2.72E-03
Sample ID:	591660	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.19E-03	3.52E-03
Sample ID:	591873	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.27E-03	0.00E+00	1.27E-03
				Cs-137	<1.96E-03	0.00E+00	1.96E-03
				Be-7	1.50E-01	3.85E-02	3.93E-02
				K-40	2.64E-02	1.76E-02	2.31E-02
Sample ID:	591866	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.27E-03	3.04E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 12 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	592228	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.33E-03	3.45E-03
Sample ID:	592446	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.39E-03	3.61E-03
Sample ID:	593041	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	3.61E-03	3.79E-03
Sample ID:	593210	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.09E-03	3.16E-03
Sample ID:	593596	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	3.02E-03	3.55E-03
Sample ID:	593844	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	2.89E-03	2.57E-03
Sample ID:	594319	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.04E-02	3.66E-03	3.66E-03
Sample ID:	594831	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	2.59E-03	2.54E-03
Sample ID:	595029	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.59E-03	3.72E-03
Sample ID:	595672	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.47E-03	3.65E-03
Sample ID:	596430	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.32E-03	2.77E-03
Sample ID:	596820	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.55E-03	2.88E-03
Sample ID:	597331	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<1.21E-03	0.00E+00	1.21E-03
				Be-7	1.33E-01	3.43E-02	2.94E-02
				K-40	<2.94E-02	0.00E+00	2.94E-02
Sample ID:	597324	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.06E-03	2.83E-03
Sample ID:	597904	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.32E-02	3.66E-03	3.35E-03
Sample ID:	598248	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.90E-03	3.28E-03
Sample ID:	598901	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.80E-03	2.70E-03
Sample ID:	599100	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.36E-03	3.42E-03
Sample ID:	599498	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.31E-02	3.65E-03	3.31E-03
Sample ID:	600343	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	2.86E-03	2.69E-03
Sample ID:	601158	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.83E-03	3.21E-03
Sample ID:	601320	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.12E-03	2.82E-03
Sample ID:	601817	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.08E-03	3.13E-03
Sample ID:	602297	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.81E-03	3.10E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 13 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	602542	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	2.59E-03	2.56E-03
Sample ID:	602749	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	2.91E-03	3.80E-03
Sample ID:	602983	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<1.47E-03	0.00E+00	1.47E-03
				Be-7	1.35E-01	3.35E-02	2.37E-02
				K-40	1.26E-02	1.37E-02	2.12E-02

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	582700	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.18E-03	3.67E-03
Sample ID:	582998	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.77E-03	2.97E-03
Sample ID:	583183	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	3.09E-03	4.03E-03
Sample ID:	583533	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	2.61E-03	2.75E-03
Sample ID:	584261	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.95E-03	3.21E-03
Sample ID:	584966	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.04E-03	3.63E-03
Sample ID:	585392	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	3.01E-03	3.36E-03
Sample ID:	585600	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	2.91E-03	3.01E-03
Sample ID:	585853	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.89E-03	2.91E-03
Sample ID:	586113	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.90E-03	3.21E-03
Sample ID:	586706	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	3.00E-03	3.22E-03
Sample ID:	586972	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.99E-03	3.08E-03
Sample ID:	587231	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	3.02E-03	3.34E-03
Sample ID:	587490	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.94E-03	0.00E+00	1.94E-03
				Cs-137	<1.36E-03	0.00E+00	1.36E-03
				Be-7	1.62E-01	3.59E-02	2.37E-02
				K-40	<3.21E-02	0.00E+00	3.21E-02
Sample ID:	587482	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.25E-03	3.41E-03
Sample ID:	587811	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.91E-03	3.09E-03
Sample ID:	588343	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.36E-03	3.08E-03
Sample ID:	588629	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.73E-03	3.09E-03
Sample ID:	589584	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.76E-03	3.14E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 14 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	589841	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.85E-02	2.64E-03	2.75E-03
Sample ID:	590056	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.85E-02	2.82E-03	2.82E-03
Sample ID:	590391	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.38E-02	2.63E-03	3.22E-03
Sample ID:	590526	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.58E-02	3.24E-03	3.99E-03
Sample ID:	590683	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.24E-02	2.81E-03	2.64E-03
Sample ID:	591239	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.35E-02	2.83E-03	2.64E-03
Sample ID:	591479	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.14E-02	2.27E-03	2.72E-03
Sample ID:	591661	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.04E-02	3.17E-03	3.52E-03
Sample ID:	591874	Sample Dates: 4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.28E-03	0.00E+00	1.28E-03
			Cs-137	<1.06E-03	0.00E+00	1.06E-03
			Be-7	1.39E-01	3.41E-02	2.81E-02
			K-40	<2.85E-02	0.00E+00	2.85E-02
Sample ID:	591867	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.89E-02	3.40E-03	3.06E-03
Sample ID:	592229	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.96E-02	3.08E-03	3.42E-03
Sample ID:	592447	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.68E-02	3.48E-03	3.60E-03
Sample ID:	593042	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.61E-02	3.54E-03	3.83E-03
Sample ID:	593597	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.86E-02	3.06E-03	3.51E-03
Sample ID:	593845	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.35E-02	2.81E-03	2.57E-03
Sample ID:	594320	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.18E-02	3.71E-03	3.66E-03
Sample ID:	594832	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.44E-02	2.67E-03	2.49E-03
Sample ID:	595030	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.51E-02	3.52E-03	3.87E-03
Sample ID:	595673	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.55E-02	3.45E-03	3.68E-03
Sample ID:	596431	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.50E-02	3.32E-03	2.75E-03
Sample ID:	596821	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.50E-02	2.47E-03	2.82E-03
Sample ID:	597332	Sample Dates: 7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.22E-03	0.00E+00	2.22E-03
			Cs-137	<1.94E-03	0.00E+00	1.94E-03
			Be-7	1.42E-01	3.78E-02	3.17E-02
			K-40	<3.28E-02	0.00E+00	3.28E-02
Sample ID:	597325	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.56E-02	3.04E-03	2.91E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 15 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	597905	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-03	1.91E-03	3.19E-03
Sample ID:	598249	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.71E-03	3.24E-03
Sample ID:	598902	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.84E-03	2.68E-03
Sample ID:	599101	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.38E-02	3.78E-03	3.44E-03
Sample ID:	599499	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.23E-02	3.99E-03	3.29E-03
Sample ID:	600344	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.96E-02	3.13E-03	2.73E-03
Sample ID:	601159	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.16E-03	3.17E-03
Sample ID:	601321	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.23E-02	3.62E-03	2.82E-03
Sample ID:	601818	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.96E-02	3.44E-03	3.13E-03
Sample ID:	602298	Sample Dates:	12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	2.99E-03	3.05E-03
Sample ID:	602543	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	2.81E-03	2.58E-03
Sample ID:	602750	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.59E-03	3.86E-03
Sample ID:	602984	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.70E-03	0.00E+00	1.70E-03
				Cs-137	<1.39E-03	0.00E+00	1.39E-03
				Be-7	1.30E-01	3.74E-02	3.89E-02
				K-40	<4.01E-02	0.00E+00	4.01E-02

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	582701	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	3.28E-03	3.67E-03
Sample ID:	582999	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.05E-03	2.99E-03
Sample ID:	583184	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	3.08E-03	4.01E-03
Sample ID:	583534	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.69E-03	2.76E-03
Sample ID:	584262	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	2.92E-03	3.20E-03
Sample ID:	584967	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.05E-03	3.64E-03
Sample ID:	585393	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.95E-03	3.37E-03
Sample ID:	585601	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	3.03E-03	3.01E-03
Sample ID:	585854	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.78E-03	2.94E-03
Sample ID:	586114	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.95E-03	3.18E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 16 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	586707	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.97E-03	3.19E-03
Sample ID:	586973	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.02E-03	3.10E-03
Sample ID:	587232	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.09E-03	3.38E-03
Sample ID:	587491	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.32E-03	0.00E+00	2.32E-03
				Cs-137	<1.06E-03	0.00E+00	1.06E-03
				Be-7	1.39E-01	3.50E-02	3.07E-02
				K-40	2.02E-02	1.64E-02	2.33E-02
Sample ID:	587483	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	3.06E-03	3.41E-03
Sample ID:	587812	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.93E-03	3.03E-03
Sample ID:	588344	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.35E-03	3.11E-03
Sample ID:	588630	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.89E-03	3.13E-03
Sample ID:	589585	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.85E-03	3.13E-03
Sample ID:	589842	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.65E-03	2.71E-03
Sample ID:	590057	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.73E-03	2.88E-03
Sample ID:	590392	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.54E-03	3.17E-03
Sample ID:	590527	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	3.24E-03	4.10E-03
Sample ID:	590684	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	2.86E-03	2.59E-03
Sample ID:	591240	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	2.88E-03	2.68E-03
Sample ID:	591480	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.19E-03	2.72E-03
Sample ID:	591662	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.48E-03	3.52E-03
Sample ID:	591875	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.04E-03	0.00E+00	2.04E-03
				Cs-137	<1.99E-03	0.00E+00	1.99E-03
				Be-7	1.44E-01	3.59E-02	3.04E-02
				K-40	<3.31E-02	0.00E+00	3.31E-02
Sample ID:	591868	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.34E-03	3.01E-03
Sample ID:	592230	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	3.20E-03	3.48E-03
Sample ID:	592448	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.26E-03	3.61E-03
Sample ID:	593043	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.60E-03	3.78E-03
Sample ID:	593212	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.28E-03	3.13E-03

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Duke Energy Annual Report - Appendix E

Appendix E - Page 17 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	593598	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.95E-02	3.14E-03	3.58E-03
Sample ID:	593846	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.62E-02	2.93E-03	2.58E-03
Sample ID:	594321	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.55E-02	3.85E-03	3.66E-03
Sample ID:	594833	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.19E-02	2.61E-03	2.54E-03
Sample ID:	595031	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.89E-02	3.59E-03	3.72E-03
Sample ID:	595674	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.51E-02	3.39E-03	3.62E-03
Sample ID:	596432	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.89E-02	3.49E-03	2.78E-03
Sample ID:	596822	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.50E-02	2.52E-03	2.91E-03
Sample ID:	597333	Sample Dates: 7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.42E-03	0.00E+00	2.42E-03
			Cs-137	<1.05E-03	0.00E+00	1.05E-03
			Be-7	1.29E-01	3.60E-02	3.43E-02
			K-40	2.15E-02	1.47E-02	1.79E-02
Sample ID:	597326	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.79E-02	3.10E-03	2.86E-03
Sample ID:	597906	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.39E-02	3.68E-03	3.35E-03
Sample ID:	598250	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.82E-02	2.96E-03	3.28E-03
Sample ID:	598903	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.48E-02	2.91E-03	2.70E-03
Sample ID:	599102	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.98E-02	3.59E-03	3.41E-03
Sample ID:	599500	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.97E-02	3.91E-03	3.30E-03
Sample ID:	600345	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.93E-02	3.09E-03	2.69E-03
Sample ID:	601160	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.00E-02	3.02E-03	3.21E-03
Sample ID:	601322	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	3.83E-02	3.47E-03	2.82E-03
Sample ID:	601819	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.89E-02	3.41E-03	3.13E-03
Sample ID:	602299	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.13E-02	2.93E-03	3.09E-03
Sample ID:	602544	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			Beta	2.48E-02	2.91E-03	2.56E-03
Sample ID:	602751	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Beta	1.89E-02	3.32E-03	3.80E-03
Sample ID:	602985	Sample Dates: 10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.16E-03	0.00E+00	2.16E-03
			Cs-137	<1.55E-03	0.00E+00	1.55E-03
			Be-7	1.32E-01	3.97E-02	4.44E-02
			K-40	<3.14E-02	0.00E+00	3.14E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 18 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 582710	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<4.32E-02	0.00E+00	4.32E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<2.48E-01	0.00E+00	2.48E-01
		K-40	<6.92E-01	0.00E+00	6.92E-01
Sample ID: 583000	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	6.20E-01	2.77E-01	2.75E-01
Sample ID: 583185	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<3.94E-02	0.00E+00	3.94E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<3.98E-01	0.00E+00	3.98E-01
Sample ID: 583535	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.23E-01	0.00E+00	5.23E-01
Sample ID: 584263	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	4.04E-01	2.11E-01	7.30E-02
Sample ID: 584968	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	<5.46E-01	0.00E+00	5.46E-01
Sample ID: 585394	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	4.71E-01	2.70E-01	3.31E-01
Sample ID: 585602	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	6.05E-01	3.43E-01	4.58E-01
Sample ID: 585855	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<4.65E-01	0.00E+00	4.65E-01
Sample ID: 586115	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	<6.47E-01	0.00E+00	6.47E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 19 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 586708	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<5.71E-01	0.00E+00	5.71E-01
Sample ID: 586974	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	4.66E-01	2.12E-01	6.31E-02
Sample ID: 587233	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	<6.05E-01	0.00E+00	6.05E-01
Sample ID: 587492	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	<6.19E-01	0.00E+00	6.19E-01
Sample ID: 587813	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	3.57E-01	2.21E-01	2.61E-01
Sample ID: 588345	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	<6.50E-01	0.00E+00	6.50E-01
Sample ID: 588631	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	4.75E-01	2.27E-01	7.16E-02
Sample ID: 589586	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<3.38E-02	0.00E+00	3.38E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	4.82E-01	2.31E-01	7.26E-02
Sample ID: 589843	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.38E-02	0.00E+00	3.38E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	<5.07E-01	0.00E+00	5.07E-01
Sample ID: 590058	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
		K-40	7.38E-01	2.85E-01	7.14E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 20 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 590393	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	6.20E-01	2.65E-01	2.25E-01
Sample ID: 590528	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.52E-02	0.00E+00	4.52E-02
		Cs-134	<3.67E-02	0.00E+00	3.67E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<2.94E-01	0.00E+00	2.94E-01
		K-40	7.15E-01	3.60E-01	4.09E-01
Sample ID: 590685	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<2.51E-01	0.00E+00	2.51E-01
		K-40	7.03E-01	3.10E-01	2.90E-01
Sample ID: 591241	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	7.19E-01	3.06E-01	2.70E-01
Sample ID: 591481	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.52E-01	0.00E+00	2.52E-01
		K-40	6.05E-01	3.30E-01	4.12E-01
Sample ID: 591663	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.45E-01	0.00E+00	2.45E-01
		K-40	6.22E-01	3.22E-01	3.81E-01
Sample ID: 591876	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	<6.17E-01	0.00E+00	6.17E-01
Sample ID: 592231	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<3.16E-02	0.00E+00	3.16E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.41E-01	2.65E-01	2.61E-01
Sample ID: 592449	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	3.24E-01	2.73E-01	4.04E-01
Sample ID: 593044	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	8.06E-01	2.88E-01	6.62E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 21 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 593213	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	6.87E-01	2.91E-01	2.78E-01
Sample ID: 593599	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.81E-02	0.00E+00	1.81E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<5.76E-01	0.00E+00	5.76E-01
Sample ID: 593847	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<5.34E-01	0.00E+00	5.34E-01
Sample ID: 594322	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.00E-02	0.00E+00	3.00E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	<5.43E-01	0.00E+00	5.43E-01
Sample ID: 594834	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	6.28E-01	2.63E-01	2.39E-01
Sample ID: 595032	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	8.50E-01	3.35E-01	2.63E-01
Sample ID: 595675	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	5.08E-01	2.68E-01	2.55E-01
Sample ID: 596433	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<3.06E-02	0.00E+00	3.06E-02
		Cs-137	<3.24E-02	0.00E+00	3.24E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	4.27E-01	3.14E-01	4.42E-01
Sample ID: 596823	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<3.37E-02	0.00E+00	3.37E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	5.78E-01	3.29E-01	4.07E-01
Sample ID: 597334	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	7.89E-01	2.86E-01	6.68E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 22 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 597907	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	<3.87E-01	0.00E+00	3.87E-01
Sample ID: 598251	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	<4.48E-01	0.00E+00	4.48E-01
Sample ID: 598904	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	<7.51E-01	0.00E+00	7.51E-01
Sample ID: 599103	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	4.60E-01	3.15E-01	4.30E-01
Sample ID: 599501	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<3.48E-02	0.00E+00	3.48E-02
		Cs-137	<3.27E-02	0.00E+00	3.27E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	<6.30E-01	0.00E+00	6.30E-01
Sample ID: 600346	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.36E-01	0.00E+00	2.36E-01
		K-40	5.94E-01	2.63E-01	7.67E-02
Sample ID: 601161	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.14E-02	0.00E+00	4.14E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.51E-01	0.00E+00	2.51E-01
		K-40	<7.52E-01	0.00E+00	7.52E-01
Sample ID: 601323	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID: 601820	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	<6.41E-01	0.00E+00	6.41E-01
Sample ID: 602300	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	6.38E-01	2.88E-01	2.83E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 23 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	602545	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.40E-02	0.00E+00	4.40E-02
				Cs-134	<2.91E-02	0.00E+00	2.91E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	6.86E-01	2.70E-01	6.89E-02

Sample ID:	602752	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.45E-02	0.00E+00	4.45E-02
				Cs-134	<3.78E-02	0.00E+00	3.78E-02
				Cs-137	<2.32E-02	0.00E+00	2.32E-02
				Be-7	<2.71E-01	0.00E+00	2.71E-01
				K-40	7.63E-01	3.60E-01	3.52E-01

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID:	582711	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.88E-02	0.00E+00	2.88E-02
				Cs-134	<2.36E-02	0.00E+00	2.36E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	4.36E-01	2.48E-01	2.54E-01

Sample ID:	583001	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.00E-02	0.00E+00	2.00E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<2.12E-02	0.00E+00	2.12E-02
				Be-7	<8.77E-02	0.00E+00	8.77E-02
				K-40	<4.44E-01	0.00E+00	4.44E-01

Sample ID:	583186	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.31E-02	0.00E+00	3.31E-02
				Cs-134	<2.61E-02	0.00E+00	2.61E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	5.38E-01	3.06E-01	3.71E-01

Sample ID:	583536	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<2.45E-02	0.00E+00	2.45E-02
				Be-7	<2.15E-01	0.00E+00	2.15E-01
				K-40	<3.38E-01	0.00E+00	3.38E-01

Sample ID:	584264	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.39E-01	0.00E+00	1.39E-01
				K-40	3.62E-01	1.89E-01	6.54E-02

Sample ID:	584969	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<5.15E-03	0.00E+00	5.15E-03
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.61E-01	0.00E+00	1.61E-01
				K-40	5.60E-01	2.38E-01	6.60E-02

Sample ID:	585395	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.05E-02	0.00E+00	2.05E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	<5.27E-01	0.00E+00	5.27E-01

Sample ID:	585603	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.45E-02	0.00E+00	2.45E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<1.79E-02	0.00E+00	1.79E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 24 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID:	585603	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	7.49E-01	2.80E-01	6.77E-02
Sample ID:	585856	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<2.50E-02	0.00E+00	2.50E-02
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	<4.31E-01	0.00E+00	4.31E-01
Sample ID:	586116	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.67E-02	0.00E+00	2.67E-02
				Cs-134	<2.04E-02	0.00E+00	2.04E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01
				K-40	3.32E-01	2.18E-01	2.64E-01
Sample ID:	586709	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<3.16E-02	0.00E+00	3.16E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<7.92E-02	0.00E+00	7.92E-02
				K-40	3.53E-01	2.48E-01	3.31E-01
Sample ID:	586975	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.34E-02	0.00E+00	1.34E-02
				Cs-137	<1.46E-02	0.00E+00	1.46E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	<5.94E-01	0.00E+00	5.94E-01
Sample ID:	587234	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.04E-02	0.00E+00	3.04E-02
				Cs-134	<1.36E-02	0.00E+00	1.36E-02
				Cs-137	<3.12E-02	0.00E+00	3.12E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	6.99E-01	2.96E-01	2.78E-01
Sample ID:	587493	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	<5.22E-01	0.00E+00	5.22E-01
Sample ID:	587814	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<2.29E-02	0.00E+00	2.29E-02
				Be-7	<1.61E-01	0.00E+00	1.61E-01
				K-40	2.33E-01	1.99E-01	2.78E-01
Sample ID:	588346	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.56E-02	0.00E+00	3.56E-02
				Cs-134	<2.19E-02	0.00E+00	2.19E-02
				Cs-137	<2.28E-02	0.00E+00	2.28E-02
				Be-7	<2.05E-01	0.00E+00	2.05E-01
				K-40	7.00E-01	2.80E-01	7.30E-02
Sample ID:	588632	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.21E-02	0.00E+00	2.21E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<2.30E-02	0.00E+00	2.30E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	<4.92E-01	0.00E+00	4.92E-01
Sample ID:	589587	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02
				Cs-137	<2.42E-02	0.00E+00	2.42E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 25 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID: 589587	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<7.87E-02	0.00E+00	7.87E-02
		K-40	3.74E-01	2.83E-01	4.06E-01
Sample ID: 589844	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 590059	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<8.01E-02	0.00E+00	8.01E-02
Sample ID: 590394	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
Sample ID: 590529	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<3.20E-02	0.00E+00	3.20E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 590686	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 591242	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 591482	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<4.23E-03	0.00E+00	4.23E-03
		Be-7	<1.12E-01	0.00E+00	1.12E-01
Sample ID: 591664	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.54E-02	0.00E+00	1.54E-02
		Cs-134	<1.28E-02	0.00E+00	1.28E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
Sample ID: 591877	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 592232	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 26 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID: 592232	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	5.78E-01	3.30E-01	4.32E-01
Sample ID: 592450	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	7.05E-01	2.63E-01	6.37E-02
Sample ID: 593045	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.08E-01	2.50E-01	3.14E-01
Sample ID: 593214	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	5.17E-01	2.72E-01	3.12E-01
Sample ID: 593600	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	<5.59E-01	0.00E+00	5.59E-01
Sample ID: 593848	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	<5.41E-01	0.00E+00	5.41E-01
Sample ID: 594323	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.51E-01	2.45E-01	2.62E-01
Sample ID: 594835	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	9.43E-01	3.30E-01	3.04E-01
Sample ID: 595033	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<3.58E-02	0.00E+00	3.58E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
		K-40	5.29E-01	3.42E-01	4.58E-01
Sample ID: 595676	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	5.85E-01	2.81E-01	3.01E-01
Sample ID: 596434	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 27 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID: 596434	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.53E-01	0.00E+00	5.53E-01
Sample ID: 596824	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 597335	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 597908	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 598252	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
Sample ID: 598905	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
Sample ID: 599104	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 599502	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 600347	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
Sample ID: 601162	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	4.96E-01	2.94E-01	3.84E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 28 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 106 [INDICATOR - E @ 0.47 miles]

Sample ID: 601324	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.98E-01	2.80E-01	2.67E-01
Sample ID: 601821	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	4.43E-01	3.12E-01	4.46E-01
Sample ID: 602301	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	5.26E-01	2.33E-01	6.79E-02
Sample ID: 602546	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	3.98E-01	2.79E-01	3.86E-01
Sample ID: 602753	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.03E-02	0.00E+00	4.03E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
		K-40	6.69E-01	4.01E-01	5.24E-01

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 582712	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	8.75E-01	3.48E-01	2.80E-01
Sample ID: 583002	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<3.91E-01	0.00E+00	3.91E-01
Sample ID: 583187	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	<4.78E-01	0.00E+00	4.78E-01
Sample ID: 583537	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	<4.73E-01	0.00E+00	4.73E-01
Sample ID: 584265	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 29 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	584265	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	2.44E-01	2.46E-01	3.80E-01
Sample ID:	584970	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.21E-02	0.00E+00	2.21E-02
				Cs-134	<2.32E-02	0.00E+00	2.32E-02
				Cs-137	<2.51E-02	0.00E+00	2.51E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	<5.22E-01	0.00E+00	5.22E-01
Sample ID:	585396	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	<4.24E-01	0.00E+00	4.24E-01
Sample ID:	585604	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.23E-02	0.00E+00	2.23E-02
				Cs-134	<2.40E-02	0.00E+00	2.40E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	3.43E-01	2.08E-01	2.27E-01
Sample ID:	585857	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.20E-02	0.00E+00	3.20E-02
				Cs-134	<3.03E-02	0.00E+00	3.03E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<2.52E-01	0.00E+00	2.52E-01
				K-40	5.43E-01	2.70E-01	2.61E-01
Sample ID:	586117	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.49E-02	0.00E+00	1.49E-02
				Cs-134	<1.57E-02	0.00E+00	1.57E-02
				Cs-137	<1.36E-02	0.00E+00	1.36E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	3.36E-01	1.73E-01	2.20E-01
Sample ID:	586710	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	3.68E-01	2.01E-01	1.83E-01
Sample ID:	586976	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<2.09E-02	0.00E+00	2.09E-02
				Cs-137	<2.51E-02	0.00E+00	2.51E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	4.09E-01	2.73E-01	3.64E-01
Sample ID:	587235	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.34E-02	0.00E+00	1.34E-02
				Cs-134	<2.02E-02	0.00E+00	2.02E-02
				Cs-137	<2.70E-02	0.00E+00	2.70E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	6.25E-01	3.01E-01	3.41E-01
Sample ID:	587494	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<2.21E-02	0.00E+00	2.21E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	5.10E-01	2.40E-01	2.09E-01
Sample ID:	587815	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.56E-02	0.00E+00	3.56E-02
				Cs-134	<2.96E-02	0.00E+00	2.96E-02
				Cs-137	<3.40E-02	0.00E+00	3.40E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 30 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 587815	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	4.10E-01	2.30E-01	2.27E-01
Sample ID: 588347	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<3.72E-02	0.00E+00	3.72E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
Sample ID: 588633	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 589588	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
Sample ID: 589845	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 590060	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 590395	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 590530	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
Sample ID: 590687	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<3.79E-02	0.00E+00	3.79E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 591243	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 591483	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 31 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 591483	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	6.80E-01	3.13E-01	3.47E-01
Sample ID: 591665	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<3.35E-02	0.00E+00	3.35E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<3.05E-02	0.00E+00	3.05E-02
Sample ID: 591878	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
Sample ID: 592233	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 592451	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	8.69E-02	1.08E-01	1.76E-01
Sample ID: 593046	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<3.47E-02	0.00E+00	3.47E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 593215	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 593601	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
Sample ID: 593849	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
Sample ID: 594324	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 594836	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.83E-02	0.00E+00	1.83E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 32 of 108

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	594836	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<1.91E-02	0.00E+00	1.91E-02
			Cs-137	<1.94E-02	0.00E+00	1.94E-02
			Be-7	<1.47E-01	0.00E+00	1.47E-01
			K-40	4.43E-01	2.31E-01	2.62E-01
Sample ID:	595034	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.63E-02	0.00E+00	2.63E-02
			Cs-134	<3.19E-02	0.00E+00	3.19E-02
			Cs-137	<1.97E-02	0.00E+00	1.97E-02
			Be-7	<1.69E-01	0.00E+00	1.69E-01
Sample ID:	595677	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.08E-02	0.00E+00	2.08E-02
			Cs-134	<1.31E-02	0.00E+00	1.31E-02
			Cs-137	<2.02E-02	0.00E+00	2.02E-02
			Be-7	<1.10E-01	0.00E+00	1.10E-01
Sample ID:	596435	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.70E-02	0.00E+00	2.70E-02
			Cs-134	<2.75E-02	0.00E+00	2.75E-02
			Cs-137	<1.47E-02	0.00E+00	1.47E-02
			Be-7	<1.48E-01	0.00E+00	1.48E-01
Sample ID:	596825	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.70E-02	0.00E+00	2.70E-02
			Cs-134	<2.16E-02	0.00E+00	2.16E-02
			Cs-137	<1.86E-02	0.00E+00	1.86E-02
			Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID:	597336	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.72E-02	0.00E+00	2.72E-02
			Cs-134	<1.80E-02	0.00E+00	1.80E-02
			Cs-137	<3.15E-02	0.00E+00	3.15E-02
			Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID:	597909	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.33E-02	0.00E+00	2.33E-02
			Cs-134	<1.72E-02	0.00E+00	1.72E-02
			Cs-137	<2.40E-02	0.00E+00	2.40E-02
			Be-7	<1.77E-01	0.00E+00	1.77E-01
Sample ID:	598253	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.85E-02	0.00E+00	2.85E-02
			Cs-134	<2.06E-02	0.00E+00	2.06E-02
			Cs-137	<2.16E-02	0.00E+00	2.16E-02
			Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID:	598906	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.81E-02	0.00E+00	1.81E-02
			Cs-134	<2.56E-02	0.00E+00	2.56E-02
			Cs-137	<1.88E-02	0.00E+00	1.88E-02
			Be-7	<1.12E-01	0.00E+00	1.12E-01
Sample ID:	599105	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.50E-02	0.00E+00	2.50E-02
			Cs-134	<2.08E-02	0.00E+00	2.08E-02
			Cs-137	<1.55E-02	0.00E+00	1.55E-02
			Be-7	<1.18E-01	0.00E+00	1.18E-01
			K-40	3.47E-01	2.07E-01	2.07E-01

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 599503	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	3.53E-01	2.60E-01	3.65E-01
Sample ID: 600348	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	3.21E-01	2.33E-01	3.17E-01
Sample ID: 601163	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	5.37E-01	2.57E-01	2.57E-01
Sample ID: 601325	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.84E-01	2.76E-01	3.37E-01
Sample ID: 601822	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<5.12E-01	0.00E+00	5.12E-01
Sample ID: 602302	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	4.11E-01	2.30E-01	2.37E-01
Sample ID: 602547	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	6.40E-01	2.74E-01	2.19E-01
Sample ID: 602754	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.05E-02	0.00E+00	4.05E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
		K-40	6.48E-01	3.26E-01	3.09E-01

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 582713	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.94E-02	0.00E+00	3.94E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	4.74E-01	3.06E-01	3.86E-01
Sample ID: 583003	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 34 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	583003	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.41E-01	0.00E+00	4.41E-01
Sample ID:	583188	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<3.40E-02	0.00E+00	3.40E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	5.18E-01	2.41E-01	7.38E-02
Sample ID:	583538	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.40E-02	0.00E+00	2.40E-02
				Cs-134	<2.73E-02	0.00E+00	2.73E-02
				Cs-137	<1.15E-02	0.00E+00	1.15E-02
				Be-7	<9.70E-02	0.00E+00	9.70E-02
				K-40	<4.76E-01	0.00E+00	4.76E-01
Sample ID:	584266	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.58E-02	0.00E+00	3.58E-02
				Cs-134	<2.80E-02	0.00E+00	2.80E-02
				Cs-137	<1.83E-02	0.00E+00	1.83E-02
				Be-7	<2.16E-01	0.00E+00	2.16E-01
				K-40	4.91E-01	2.80E-01	3.33E-01
Sample ID:	584971	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.45E-02	0.00E+00	2.45E-02
				Cs-134	<2.20E-02	0.00E+00	2.20E-02
				Cs-137	<2.22E-02	0.00E+00	2.22E-02
				Be-7	<1.81E-01	0.00E+00	1.81E-01
				K-40	<4.32E-01	0.00E+00	4.32E-01
Sample ID:	585397	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	3.94E-01	2.23E-01	2.35E-01
Sample ID:	585605	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.47E-02	0.00E+00	3.47E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<2.28E-02	0.00E+00	2.28E-02
				Be-7	<2.53E-01	0.00E+00	2.53E-01
				K-40	<6.99E-01	0.00E+00	6.99E-01
Sample ID:	585858	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.30E-02	0.00E+00	2.30E-02
				Cs-134	<1.72E-02	0.00E+00	1.72E-02
				Cs-137	<2.54E-02	0.00E+00	2.54E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	<5.83E-01	0.00E+00	5.83E-01
Sample ID:	586118	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.88E-02	0.00E+00	2.88E-02
				Cs-134	<2.07E-02	0.00E+00	2.07E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	<5.59E-01	0.00E+00	5.59E-01
Sample ID:	586711	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.73E-02	0.00E+00	2.73E-02
				Cs-134	<1.71E-02	0.00E+00	1.71E-02
				Cs-137	<2.39E-02	0.00E+00	2.39E-02
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	<4.02E-01	0.00E+00	4.02E-01
Sample ID:	586977	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.55E-02	0.00E+00	1.55E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.52E-02	0.00E+00	1.52E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 35 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 586977	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	4.47E-01	2.87E-01	3.86E-01
Sample ID: 587236	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 587495	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<5.20E-03	0.00E+00	5.20E-03
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 587816	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 588348	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
Sample ID: 588634	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<3.22E-02	0.00E+00	3.22E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 589589	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 589846	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
Sample ID: 590061	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 590396	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 590531	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 36 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 590531	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.91E-01	0.00E+00	1.91E-01
		K-40	<6.67E-01	0.00E+00	6.67E-01
Sample ID: 590688	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
Sample ID: 591244	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 591484	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
Sample ID: 591666	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
Sample ID: 591879	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 592234	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 592452	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 593047	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 593216	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 593602	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 37 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 593602	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.98E-01	3.21E-01	3.56E-01
Sample ID: 593850	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 594325	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
Sample ID: 594837	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<4.78E-03	0.00E+00	4.78E-03
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 595035	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<9.33E-02	0.00E+00	9.33E-02
Sample ID: 595678	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.97E-02	0.00E+00	2.97E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 596436	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<9.97E-02	0.00E+00	9.97E-02
Sample ID: 596826	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 597337	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 597910	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	<5.78E-01	0.00E+00	5.78E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 38 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 598254	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.91E-02	0.00E+00	3.91E-02
		Cs-134	<3.46E-02	0.00E+00	3.46E-02
		Cs-137	<3.39E-02	0.00E+00	3.39E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<6.73E-01	0.00E+00	6.73E-01
Sample ID: 598907	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	3.55E-01	2.08E-01	2.15E-01
Sample ID: 599106	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	5.18E-01	2.51E-01	2.39E-01
Sample ID: 599504	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<5.20E-01	0.00E+00	5.20E-01
Sample ID: 600349	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	<4.72E-01	0.00E+00	4.72E-01
Sample ID: 601164	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	5.30E-01	2.30E-01	6.53E-02
Sample ID: 601326	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	6.44E-01	2.93E-01	3.04E-01
Sample ID: 601823	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<5.16E-01	0.00E+00	5.16E-01
Sample ID: 602303	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	4.60E-01	2.42E-01	2.42E-01
Sample ID: 602548	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.03E-02	0.00E+00	4.03E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	<7.25E-01	0.00E+00	7.25E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 39 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	602755	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.13E-02	0.00E+00	5.13E-02
				Cs-134	<2.72E-02	0.00E+00	2.72E-02
				Cs-137	<3.43E-02	0.00E+00	3.43E-02
				Be-7	<2.53E-01	0.00E+00	2.53E-01
				K-40	1.32E+00	4.66E-01	3.78E-01

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	582714	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.61E-02	0.00E+00	2.61E-02
				Cs-134	<2.68E-02	0.00E+00	2.68E-02
				Cs-137	<3.05E-02	0.00E+00	3.05E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	<5.83E-01	0.00E+00	5.83E-01

Sample ID:	583004	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<2.33E-02	0.00E+00	2.33E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<8.72E-02	0.00E+00	8.72E-02
				K-40	<4.51E-01	0.00E+00	4.51E-01

Sample ID:	583189	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.17E-02	0.00E+00	3.17E-02
				Cs-134	<2.58E-02	0.00E+00	2.58E-02
				Cs-137	<3.23E-02	0.00E+00	3.23E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	<5.30E-01	0.00E+00	5.30E-01

Sample ID:	583539	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<1.94E-02	0.00E+00	1.94E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	4.15E-01	2.04E-01	6.62E-02

Sample ID:	584267	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<1.94E-02	0.00E+00	1.94E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01
				K-40	<4.55E-01	0.00E+00	4.55E-01

Sample ID:	584972	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.02E-02	0.00E+00	2.02E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	3.69E-01	2.36E-01	2.92E-01

Sample ID:	585398	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.12E-02	0.00E+00	2.12E-02
				Cs-134	<1.94E-02	0.00E+00	1.94E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	<5.75E-01	0.00E+00	5.75E-01

Sample ID:	585606	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.56E-02	0.00E+00	2.56E-02
				Cs-134	<2.28E-02	0.00E+00	2.28E-02
				Cs-137	<1.21E-02	0.00E+00	1.21E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	7.49E-01	2.95E-01	2.29E-01

Sample ID:	585859	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.70E-02	0.00E+00	2.70E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 40 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	585859	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.24E-01	0.00E+00	4.24E-01
Sample ID:	586119	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.33E-02	0.00E+00	2.33E-02
				Cs-134	<2.67E-02	0.00E+00	2.67E-02
				Cs-137	<2.31E-02	0.00E+00	2.31E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	2.94E-01	2.18E-01	2.89E-01
Sample ID:	586712	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<1.94E-02	0.00E+00	1.94E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<9.57E-02	0.00E+00	9.57E-02
				K-40	2.12E-01	1.57E-01	1.74E-01
Sample ID:	586978	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<2.44E-02	0.00E+00	2.44E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.86E-01	0.00E+00	1.86E-01
				K-40	5.37E-01	2.33E-01	6.61E-02
Sample ID:	587237	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	6.10E-01	2.44E-01	6.36E-02
Sample ID:	587496	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<2.30E-02	0.00E+00	2.30E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	4.51E-01	2.56E-01	3.03E-01
Sample ID:	587817	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.50E-02	0.00E+00	2.50E-02
				Cs-134	<2.14E-02	0.00E+00	2.14E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.86E-01	0.00E+00	1.86E-01
				K-40	3.50E-01	2.10E-01	2.13E-01
Sample ID:	588349	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<2.04E-02	0.00E+00	2.04E-02
				Cs-137	<2.46E-02	0.00E+00	2.46E-02
				Be-7	<1.61E-01	0.00E+00	1.61E-01
				K-40	<4.73E-01	0.00E+00	4.73E-01
Sample ID:	588635	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-02
				Cs-137	<1.15E-02	0.00E+00	1.15E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	<4.10E-01	0.00E+00	4.10E-01
Sample ID:	589590	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.54E-02	0.00E+00	1.54E-02
				Cs-134	<2.03E-02	0.00E+00	2.03E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	<4.38E-01	0.00E+00	4.38E-01
Sample ID:	589847	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.48E-02	0.00E+00	2.48E-02
				Cs-134	<2.15E-02	0.00E+00	2.15E-02
				Cs-137	<2.02E-02	0.00E+00	2.02E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 41 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 589847	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	<4.69E-01	0.00E+00	4.69E-01
Sample ID: 590062	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 590397	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
Sample ID: 590532	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<3.06E-02	0.00E+00	3.06E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
Sample ID: 590689	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
Sample ID: 591245	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 591485	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
Sample ID: 591667	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
Sample ID: 591880	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<2.02E-01	0.00E+00	2.02E-01
Sample ID: 592235	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
Sample ID: 592453	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 42 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 592453	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.83E-01	0.00E+00	5.83E-01
Sample ID: 593048	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
Sample ID: 593217	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 593603	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
Sample ID: 593851	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 594326	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 594838	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
Sample ID: 595036	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
Sample ID: 595679	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 596437	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.70E-02	0.00E+00	1.70E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 596827	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 43 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 596827	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	6.86E-01	2.61E-01	6.41E-02
Sample ID: 597338	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
Sample ID: 597911	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<3.20E-02	0.00E+00	3.20E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
Sample ID: 598255	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 598908	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 599107	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 599505	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 600350	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 601165	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
Sample ID: 601327	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.56E-01	2.63E-01	2.35E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 44 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 601824	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	<5.25E-01	0.00E+00	5.25E-01
Sample ID: 602304	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	4.42E-01	2.89E-01	3.90E-01
Sample ID: 602549	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	2.30E-01	2.52E-01	3.99E-01
Sample ID: 602756	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<4.01E-02	0.00E+00	4.01E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.73E-01	0.00E+00	2.73E-01
		K-40	9.30E-01	4.31E-01	4.82E-01
Sample Point 133 [INDICATOR - ENE @ 6.23 miles]					
Sample ID: 582715	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	<6.45E-01	0.00E+00	6.45E-01
Sample ID: 583005	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<2.95E-01	0.00E+00	2.95E-01
Sample ID: 583190	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<3.16E-02	0.00E+00	3.16E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	<5.98E-01	0.00E+00	5.98E-01
Sample ID: 583540	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	<4.45E-01	0.00E+00	4.45E-01
Sample ID: 584268	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	4.70E-01	2.71E-01	3.32E-01
Sample ID: 584973	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 45 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	584973	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	3.97E-01	2.45E-01	3.04E-01
Sample ID:	585399	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.86E-02	0.00E+00	2.86E-02
				Cs-134	<2.46E-02	0.00E+00	2.46E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<9.95E-02	0.00E+00	9.95E-02
				K-40	5.83E-01	2.77E-01	2.85E-01
Sample ID:	585607	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	8.46E-01	2.94E-01	6.55E-02
Sample ID:	585860	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.36E-02	0.00E+00	1.36E-02
				Cs-137	<1.92E-02	0.00E+00	1.92E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	5.69E-01	2.37E-01	6.43E-02
Sample ID:	586120	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.15E-02	0.00E+00	3.15E-02
				Cs-134	<3.24E-02	0.00E+00	3.24E-02
				Cs-137	<2.29E-02	0.00E+00	2.29E-02
				Be-7	<2.06E-01	0.00E+00	2.06E-01
				K-40	7.01E-01	2.80E-01	7.31E-02
Sample ID:	586713	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<1.50E-02	0.00E+00	1.50E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	5.18E-01	2.58E-01	2.66E-01
Sample ID:	586979	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.13E-02	0.00E+00	3.13E-02
				Cs-134	<2.86E-02	0.00E+00	2.86E-02
				Cs-137	<1.28E-02	0.00E+00	1.28E-02
				Be-7	<2.12E-01	0.00E+00	2.12E-01
				K-40	4.82E-01	2.74E-01	3.18E-01
Sample ID:	587238	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.73E-02	0.00E+00	2.73E-02
				Cs-134	<2.44E-02	0.00E+00	2.44E-02
				Cs-137	<2.68E-02	0.00E+00	2.68E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	6.28E-01	2.76E-01	2.53E-01
Sample ID:	587497	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.97E-02	0.00E+00	1.97E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<2.21E-02	0.00E+00	2.21E-02
				Be-7	<1.46E-01	0.00E+00	1.46E-01
				K-40	<4.58E-01	0.00E+00	4.58E-01
Sample ID:	587818	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.70E-02	0.00E+00	2.70E-02
				Cs-134	<2.52E-02	0.00E+00	2.52E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	<5.15E-01	0.00E+00	5.15E-01
Sample ID:	588350	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<2.12E-02	0.00E+00	2.12E-02
				Cs-137	<1.25E-02	0.00E+00	1.25E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 46 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	588350	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.20E-01	0.00E+00	1.20E-01
				K-40	2.36E-01	2.01E-01	2.77E-01
Sample ID:	588636	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<2.67E-02	0.00E+00	2.67E-02
				Cs-137	<2.14E-02	0.00E+00	2.14E-02
				Be-7	<1.87E-01	0.00E+00	1.87E-01
				K-40	<4.28E-01	0.00E+00	4.28E-01
Sample ID:	589591	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.60E-02	0.00E+00	2.60E-02
				Cs-134	<2.10E-02	0.00E+00	2.10E-02
				Cs-137	<1.24E-02	0.00E+00	1.24E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	3.10E-01	2.25E-01	2.95E-01
Sample ID:	589848	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	4.80E-01	2.45E-01	2.40E-01
Sample ID:	590063	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.50E-02	0.00E+00	2.50E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	5.95E-01	2.48E-01	6.72E-02
Sample ID:	590398	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.70E-02	0.00E+00	2.70E-02
				Cs-134	<1.82E-02	0.00E+00	1.82E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.38E-01	0.00E+00	1.38E-01
				K-40	<4.92E-01	0.00E+00	4.92E-01
Sample ID:	590533	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.23E-02	0.00E+00	2.23E-02
				Cs-134	<2.60E-02	0.00E+00	2.60E-02
				Cs-137	<1.37E-02	0.00E+00	1.37E-02
				Be-7	<1.83E-01	0.00E+00	1.83E-01
				K-40	6.52E-01	3.25E-01	3.63E-01
Sample ID:	590690	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.49E-02	0.00E+00	2.49E-02
				Cs-134	<2.44E-02	0.00E+00	2.44E-02
				Cs-137	<2.27E-02	0.00E+00	2.27E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	3.97E-01	2.52E-01	3.19E-01
Sample ID:	591246	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.79E-02	0.00E+00	2.79E-02
				Cs-134	<2.26E-02	0.00E+00	2.26E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	4.00E-01	2.55E-01	3.28E-01
Sample ID:	591486	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.51E-02	0.00E+00	2.51E-02
				Cs-134	<2.65E-02	0.00E+00	2.65E-02
				Cs-137	<2.12E-02	0.00E+00	2.12E-02
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	4.76E-01	2.57E-01	2.93E-01
Sample ID:	591668	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.36E-02	0.00E+00	2.36E-02
				Cs-134	<2.06E-02	0.00E+00	2.06E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 47 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID: 591668	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	8.42E-01	2.96E-01	6.71E-02
Sample ID: 591881	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 592236	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
Sample ID: 592454	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 593049	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
Sample ID: 593604	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 593852	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
Sample ID: 594327	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.80E-02	0.00E+00	1.80E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 594839	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 595037	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<3.17E-02	0.00E+00	3.17E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 595680	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.81E-02	0.00E+00	1.81E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 48 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID: 595680	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.18E-02	0.00E+00	3.18E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	<4.29E-01	0.00E+00	4.29E-01
Sample ID: 596438	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 596828	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
Sample ID: 597339	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
Sample ID: 597912	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.38E-02	0.00E+00	4.38E-02
		Cs-134	<6.48E-03	0.00E+00	6.48E-03
		Cs-137	<4.16E-02	0.00E+00	4.16E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
Sample ID: 598256	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
Sample ID: 598909	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 599108	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
Sample ID: 599506	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 600351	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.26E-01	2.30E-01	2.97E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 49 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID: 601166	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	3.24E-01	2.74E-01	4.07E-01
Sample ID: 601328	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	<6.12E-01	0.00E+00	6.12E-01
Sample ID: 601825	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	<4.81E-01	0.00E+00	4.81E-01
Sample ID: 602305	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<2.38E-01	0.00E+00	2.38E-01
		K-40	<7.37E-01	0.00E+00	7.37E-01
Sample ID: 602550	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.80E-02	0.00E+00	3.80E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	<6.43E-01	0.00E+00	6.43E-01
Sample ID: 602757	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.96E-02	0.00E+00	4.96E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<3.49E-02	0.00E+00	3.49E-02
		Be-7	<2.58E-01	0.00E+00	2.58E-01
		K-40	2.93E-01	3.00E-01	4.60E-01

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 582716	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<3.35E-02	0.00E+00	3.35E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	4.93E-01	3.16E-01	4.12E-01
Sample ID: 583006	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<3.18E-02	0.00E+00	3.18E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.47E-01	0.00E+00	5.47E-01
Sample ID: 583191	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<2.81E-02	0.00E+00	2.81E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	6.43E-01	3.27E-01	3.46E-01
Sample ID: 583541	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.06E-02	0.00E+00	4.06E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 50 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	583541	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<5.88E-01	0.00E+00	5.88E-01
Sample ID:	584269	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.34E-02	0.00E+00	3.34E-02
				Cs-134	<2.80E-02	0.00E+00	2.80E-02
				Cs-137	<2.84E-02	0.00E+00	2.84E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	5.79E-01	2.51E-01	7.13E-02
Sample ID:	584974	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.69E-02	0.00E+00	3.69E-02
				Cs-134	<3.39E-02	0.00E+00	3.39E-02
				Cs-137	<1.88E-02	0.00E+00	1.88E-02
				Be-7	<2.05E-01	0.00E+00	2.05E-01
				K-40	<6.35E-01	0.00E+00	6.35E-01
Sample ID:	585400	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.61E-02	0.00E+00	3.61E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<2.32E-01	0.00E+00	2.32E-01
				K-40	8.23E-01	3.03E-01	7.20E-02
Sample ID:	585608	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.97E-02	0.00E+00	1.97E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<2.28E-02	0.00E+00	2.28E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	<5.04E-01	0.00E+00	5.04E-01
Sample ID:	585861	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.60E-02	0.00E+00	2.60E-02
				Cs-134	<1.86E-02	0.00E+00	1.86E-02
				Cs-137	<2.59E-02	0.00E+00	2.59E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	<4.08E-01	0.00E+00	4.08E-01
Sample ID:	586121	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.68E-02	0.00E+00	3.68E-02
				Cs-134	<3.36E-02	0.00E+00	3.36E-02
				Cs-137	<2.44E-02	0.00E+00	2.44E-02
				Be-7	<2.33E-01	0.00E+00	2.33E-01
				K-40	7.01E-01	3.03E-01	2.68E-01
Sample ID:	586714	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.26E-02	0.00E+00	3.26E-02
				Cs-134	<2.98E-02	0.00E+00	2.98E-02
				Cs-137	<2.55E-02	0.00E+00	2.55E-02
				Be-7	<1.75E-01	0.00E+00	1.75E-01
				K-40	3.31E-01	2.28E-01	2.83E-01
Sample ID:	586980	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.06E-02	0.00E+00	3.06E-02
				Cs-134	<2.30E-02	0.00E+00	2.30E-02
				Cs-137	<3.00E-02	0.00E+00	3.00E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	7.17E-01	2.72E-01	6.70E-02
Sample ID:	587239	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.00E-02	0.00E+00	4.00E-02
				Cs-134	<3.02E-02	0.00E+00	3.02E-02
				Cs-137	<2.73E-02	0.00E+00	2.73E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	5.50E-01	3.46E-01	4.73E-01
Sample ID:	587498	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.96E-02	0.00E+00	2.96E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<2.45E-02	0.00E+00	2.45E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 51 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 587498	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	<3.88E-01	0.00E+00	3.88E-01
Sample ID: 587819	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
Sample ID: 588351	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 588637	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 589592	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 589849	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 590064	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 590399	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 590534	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 590691	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
Sample ID: 591247	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 52 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 591247	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<5.29E-01	0.00E+00	5.29E-01
Sample ID: 591487	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 591669	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.96E-02	0.00E+00	3.96E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
Sample ID: 591882	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
Sample ID: 592237	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 592455	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<5.25E-03	0.00E+00	5.25E-03
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 593050	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 593219	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 593605	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 593853	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 594328	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 53 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 594328	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	4.22E-01	2.08E-01	6.73E-02
Sample ID: 594840	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
Sample ID: 595038	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
Sample ID: 595681	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
Sample ID: 596439	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 596829	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 597340	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 597913	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<3.76E-02	0.00E+00	3.76E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 598257	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
Sample ID: 598910	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	<5.65E-01	0.00E+00	5.65E-01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 54 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 599109	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 599507	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 600352	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 601167	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 601329	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 601826	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 602306	Sample Dates: 12/11/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 602551	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		
Sample ID: 602758	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
			I-131		
			Cs-134		
			Cs-137		
			Be-7		
			K-40		

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 155 [INDICATOR - NNE @ 4.87 miles]

Sample ID: 583011	Sample Dates: 1/3/2023 - 1/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.15E+01		
			Co-58	<1.35E+01		
			Fe-59	<2.18E+01		

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Duke Energy Annual Report - Appendix E

Appendix E - Page 55 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 155 [INDICATOR - NNE @ 4.87 miles]

Sample ID: 583011	Sample Dates: 1/3/2023 - 1/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Co-60	<9.72E+00	0.00E+00	9.72E+00
			Zn-65	<2.56E+01	0.00E+00	2.56E+01
			Zr-95	<2.29E+01	0.00E+00	2.29E+01
			Nb-95	<1.10E+01	0.00E+00	1.10E+01
			I-131	<7.77E+00	0.00E+00	7.77E+00
			Cs-134	<1.62E+01	0.00E+00	1.62E+01
			Cs-137	<1.45E+01	0.00E+00	1.45E+01
			BaLa-140	<1.24E+01	0.00E+00	1.24E+01
			Be-7	7.15E+02	1.53E+02	1.70E+02
			K-40	5.73E+03	6.55E+02	2.44E+02
Sample ID: 586719	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<9.15E+00	0.00E+00	9.15E+00
			Co-58	<8.32E+00	0.00E+00	8.32E+00
			Fe-59	<2.10E+01	0.00E+00	2.10E+01
			Co-60	<1.06E+01	0.00E+00	1.06E+01
			Zn-65	<2.19E+01	0.00E+00	2.19E+01
			Zr-95	<1.50E+01	0.00E+00	1.50E+01
			Nb-95	<9.98E+00	0.00E+00	9.98E+00
			I-131	<8.62E+00	0.00E+00	8.62E+00
			Cs-134	<9.72E+00	0.00E+00	9.72E+00
			Cs-137	<7.51E+00	0.00E+00	7.51E+00
			BaLa-140	<1.08E+01	0.00E+00	1.08E+01
			Be-7	6.85E+02	1.17E+02	1.11E+02
			K-40	4.55E+03	4.94E+02	1.67E+02
Sample ID: 587824	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.41E+01	0.00E+00	1.41E+01
			Co-58	<1.63E+01	0.00E+00	1.63E+01
			Fe-59	<3.00E+01	0.00E+00	3.00E+01
			Co-60	<1.28E+01	0.00E+00	1.28E+01
			Zn-65	<3.86E+01	0.00E+00	3.86E+01
			Zr-95	<2.40E+01	0.00E+00	2.40E+01
			Nb-95	<1.67E+01	0.00E+00	1.67E+01
			I-131	<1.44E+01	0.00E+00	1.44E+01
			Cs-134	<1.88E+01	0.00E+00	1.88E+01
			Cs-137	<1.51E+01	0.00E+00	1.51E+01
			BaLa-140	<1.37E+01	0.00E+00	1.37E+01
			Be-7	3.33E+02	1.29E+02	1.82E+02
			K-40	5.48E+03	6.39E+02	2.50E+02
Sample ID: 589669	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<9.79E+00	0.00E+00	9.79E+00
			Co-58	<1.12E+01	0.00E+00	1.12E+01
			Fe-59	<2.44E+01	0.00E+00	2.44E+01
			Co-60	<1.43E+01	0.00E+00	1.43E+01
			Zn-65	<2.06E+01	0.00E+00	2.06E+01
			Zr-95	<1.79E+01	0.00E+00	1.79E+01
			Nb-95	<1.07E+01	0.00E+00	1.07E+01
			I-131	<9.29E+00	0.00E+00	9.29E+00
			Cs-134	<1.04E+01	0.00E+00	1.04E+01
			Cs-137	<9.79E+00	0.00E+00	9.79E+00
			BaLa-140	<1.12E+01	0.00E+00	1.12E+01
			Be-7	2.99E+02	6.18E+01	8.30E+01
			K-40	4.81E+03	5.46E+02	2.21E+02
Sample ID: 590696	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.96E+00	0.00E+00	6.96E+00
			Co-58	<7.57E+00	0.00E+00	7.57E+00
			Fe-59	<1.79E+01	0.00E+00	1.79E+01
			Co-60	<9.34E+00	0.00E+00	9.34E+00
			Zn-65	<1.98E+01	0.00E+00	1.98E+01
			Zr-95	<1.59E+01	0.00E+00	1.59E+01
			Nb-95	<7.86E+00	0.00E+00	7.86E+00
			I-131	<6.11E+00	0.00E+00	6.11E+00
			Cs-134	<9.39E+00	0.00E+00	9.39E+00
			Cs-137	<8.13E+00	0.00E+00	8.13E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 56 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 155 [INDICATOR - NNE @ 4.87 miles]

Sample ID: 590696	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			BaLa-140	<4.51E+00	0.00E+00	4.51E+00
			Be-7	3.80E+02	8.24E+01	9.61E+01
			K-40	3.49E+03	3.79E+02	1.26E+02
Sample ID: 591887	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.01E+01	0.00E+00	1.01E+01
			Co-58	<7.52E+00	0.00E+00	7.52E+00
			Fe-59	<1.75E+01	0.00E+00	1.75E+01
			Co-60	<1.18E+01	0.00E+00	1.18E+01
			Zn-65	<2.15E+01	0.00E+00	2.15E+01
			Zr-95	<1.69E+01	0.00E+00	1.69E+01
			Nb-95	<6.96E+00	0.00E+00	6.96E+00
			I-131	<6.93E+00	0.00E+00	6.93E+00
			Cs-134	<1.12E+01	0.00E+00	1.12E+01
			Cs-137	<7.86E+00	0.00E+00	7.86E+00
			BaLa-140	<9.78E+00	0.00E+00	9.78E+00
			Be-7	2.18E+02	5.23E+01	8.67E+01
Sample ID: 593610	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.13E+01	0.00E+00	1.13E+01
			Co-58	<8.83E+00	0.00E+00	8.83E+00
			Fe-59	<2.82E+01	0.00E+00	2.82E+01
			Co-60	<1.41E+01	0.00E+00	1.41E+01
			Zn-65	<3.22E+01	0.00E+00	3.22E+01
			Zr-95	<1.69E+01	0.00E+00	1.69E+01
			Nb-95	<9.26E+00	0.00E+00	9.26E+00
			I-131	<1.14E+01	0.00E+00	1.14E+01
			Cs-134	<1.27E+01	0.00E+00	1.27E+01
			Cs-137	<1.17E+01	0.00E+00	1.17E+01
			BaLa-140	<1.06E+01	0.00E+00	1.06E+01
			Be-7	1.77E+02	8.35E+01	1.22E+02
Sample ID: 595043	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.18E+01	0.00E+00	2.18E+01
			Co-58	<1.70E+01	0.00E+00	1.70E+01
			Fe-59	<4.05E+01	0.00E+00	4.05E+01
			Co-60	<1.46E+01	0.00E+00	1.46E+01
			Zn-65	<3.86E+01	0.00E+00	3.86E+01
			Zr-95	<3.23E+01	0.00E+00	3.23E+01
			Nb-95	<1.94E+01	0.00E+00	1.94E+01
			I-131	<1.34E+01	0.00E+00	1.34E+01
			Cs-134	<1.71E+01	0.00E+00	1.71E+01
			Cs-137	<1.13E+01	0.00E+00	1.13E+01
			BaLa-140	<1.46E+01	0.00E+00	1.46E+01
			Be-7	<7.27E+01	0.00E+00	7.27E+01
Sample ID: 597345	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.82E+01	0.00E+00	1.82E+01
			Co-58	<1.30E+01	0.00E+00	1.30E+01
			Fe-59	<2.98E+01	0.00E+00	2.98E+01
			Co-60	<1.64E+01	0.00E+00	1.64E+01
			Zn-65	<3.70E+01	0.00E+00	3.70E+01
			Zr-95	<1.95E+01	0.00E+00	1.95E+01
			Nb-95	<1.09E+01	0.00E+00	1.09E+01
			I-131	<1.83E+01	0.00E+00	1.83E+01
			Cs-134	<1.47E+01	0.00E+00	1.47E+01
			Cs-137	<1.77E+01	0.00E+00	1.77E+01
			BaLa-140	<1.74E+01	0.00E+00	1.74E+01
			Be-7	<1.21E+02	0.00E+00	1.21E+02
Sample ID: 599512	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.28E+01	0.00E+00	1.28E+01
			Co-58	<1.17E+01	0.00E+00	1.17E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 57 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 155 [INDICATOR - NNE @ 4.87 miles]

Sample ID: 599512	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Fe-59	<3.31E+01	0.00E+00	3.31E+01
			Co-60	<1.40E+01	0.00E+00	1.40E+01
			Zn-65	<3.39E+01	0.00E+00	3.39E+01
			Zr-95	<2.43E+01	0.00E+00	2.43E+01
			Nb-95	<1.21E+01	0.00E+00	1.21E+01
			I-131	<1.53E+01	0.00E+00	1.53E+01
			Cs-134	<1.61E+01	0.00E+00	1.61E+01
			Cs-137	<1.07E+01	0.00E+00	1.07E+01
			BaLa-140	<1.61E+01	0.00E+00	1.61E+01
			Be-7	<1.32E+02	0.00E+00	1.32E+02
			K-40	3.85E+03	5.26E+02	2.04E+02
Sample ID: 601831	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.50E+01	0.00E+00	1.50E+01
			Co-58	<1.70E+01	0.00E+00	1.70E+01
			Fe-59	<3.64E+01	0.00E+00	3.64E+01
			Co-60	<1.55E+01	0.00E+00	1.55E+01
			Zn-65	<3.12E+01	0.00E+00	3.12E+01
			Zr-95	<2.95E+01	0.00E+00	2.95E+01
			Nb-95	<1.64E+01	0.00E+00	1.64E+01
			I-131	<1.55E+01	0.00E+00	1.55E+01
			Cs-134	<1.93E+01	0.00E+00	1.93E+01
			Cs-137	<1.77E+01	0.00E+00	1.77E+01
			BaLa-140	<5.75E+00	0.00E+00	5.75E+00
			Be-7	<1.72E+02	0.00E+00	1.72E+02
			K-40	3.52E+03	5.66E+02	4.53E+01

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID: 583272	Sample Dates: 12/27/2022 - 1/23/2023		Nuclide	Activity	2 Sigma Error	MDA
			Beta	<3.28E+00	0.00E+00	3.28E+00
			Mn-54	<3.99E+00	0.00E+00	3.99E+00
			Co-58	<5.20E+00	0.00E+00	5.20E+00
			Fe-59	<1.08E+01	0.00E+00	1.08E+01
			Co-60	<3.60E+00	0.00E+00	3.60E+00
			Zn-65	<7.39E+00	0.00E+00	7.39E+00
			Zr-95	<8.17E+00	0.00E+00	8.17E+00
			Nb-95	<4.86E+00	0.00E+00	4.86E+00
			I-131	<1.32E+01	0.00E+00	1.32E+01
			Cs-134	<5.26E+00	0.00E+00	5.26E+00
			Cs-137	<4.09E+00	0.00E+00	4.09E+00
			BaLa-140	<1.22E+01	0.00E+00	1.22E+01
			Be-7	<3.91E+01	0.00E+00	3.91E+01
Sample ID: 585466	Sample Dates: 1/23/2023 - 2/20/2023		Nuclide	Activity	2 Sigma Error	MDA
			Beta	<3.25E+00	0.00E+00	3.25E+00
			Mn-54	<2.90E+00	0.00E+00	2.90E+00
			Co-58	<4.67E+00	0.00E+00	4.67E+00
			Fe-59	<9.48E+00	0.00E+00	9.48E+00
			Co-60	<3.63E+00	0.00E+00	3.63E+00
			Zn-65	<7.13E+00	0.00E+00	7.13E+00
			Zr-95	<7.36E+00	0.00E+00	7.36E+00
			Nb-95	<5.46E+00	0.00E+00	5.46E+00
			I-131	<1.30E+01	0.00E+00	1.30E+01
			Cs-134	<3.22E+00	0.00E+00	3.22E+00
			Cs-137	<3.65E+00	0.00E+00	3.65E+00
			BaLa-140	<8.16E+00	0.00E+00	8.16E+00
			Be-7	<3.07E+01	0.00E+00	3.07E+01
Sample ID: 586785	Sample Dates: 2/20/2023 - 3/20/2023		Nuclide	Activity	2 Sigma Error	MDA
			Beta	<3.29E+00	0.00E+00	3.29E+00
			Mn-54	<3.58E+00	0.00E+00	3.58E+00
			Co-58	<3.43E+00	0.00E+00	3.43E+00
			Fe-59	<7.52E+00	0.00E+00	7.52E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 58 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID: 586785	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<3.19E+00	0.00E+00	3.19E+00
		Zn-65	<7.09E+00	0.00E+00	7.09E+00
		Zr-95	<7.02E+00	0.00E+00	7.02E+00
		Nb-95	<5.86E+00	0.00E+00	5.86E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.09E+00	0.00E+00	3.09E+00
		Cs-137	<3.66E+00	0.00E+00	3.66E+00
		BaLa-140	<7.37E+00	0.00E+00	7.37E+00
		Be-7	<3.04E+01	0.00E+00	3.04E+01
		K-40	8.41E+01	4.00E+01	5.37E+01
Sample ID: 585156	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	7.09E+02	1.34E+02	1.92E+02
Sample ID: 587925	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.42E+00	0.00E+00	3.42E+00
		Co-58	<3.20E+00	0.00E+00	3.20E+00
		Fe-59	<6.13E+00	0.00E+00	6.13E+00
		Co-60	<2.59E+00	0.00E+00	2.59E+00
		Zn-65	<6.60E+00	0.00E+00	6.60E+00
		Zr-95	<5.86E+00	0.00E+00	5.86E+00
		Nb-95	<3.57E+00	0.00E+00	3.57E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<3.96E+00	0.00E+00	3.96E+00
		BaLa-140	<7.88E+00	0.00E+00	7.88E+00
		Be-7	<2.89E+01	0.00E+00	2.89E+01
		K-40	9.47E+01	4.01E+01	5.21E+01
Sample ID: 589938	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.16E+00	0.00E+00	3.16E+00
		Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<4.45E+00	0.00E+00	4.45E+00
		Fe-59	<8.21E+00	0.00E+00	8.21E+00
		Co-60	<3.55E+00	0.00E+00	3.55E+00
		Zn-65	<8.41E+00	0.00E+00	8.41E+00
		Zr-95	<6.70E+00	0.00E+00	6.70E+00
		Nb-95	<4.53E+00	0.00E+00	4.53E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.65E+00	0.00E+00	3.65E+00
		Cs-137	<3.32E+00	0.00E+00	3.32E+00
		BaLa-140	<9.41E+00	0.00E+00	9.41E+00
		Be-7	<3.25E+01	0.00E+00	3.25E+01
		K-40	6.55E+01	4.13E+01	5.96E+01
Sample ID: 590800	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.57E+00	0.00E+00	4.57E+00
		Co-58	<4.41E+00	0.00E+00	4.41E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<2.46E+00	0.00E+00	2.46E+00
		Zn-65	<8.08E+00	0.00E+00	8.08E+00
		Zr-95	<8.22E+00	0.00E+00	8.22E+00
		Nb-95	<5.39E+00	0.00E+00	5.39E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.36E+00	0.00E+00	3.36E+00
		Cs-137	<4.62E+00	0.00E+00	4.62E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<4.06E+01	0.00E+00	4.06E+01
		K-40	4.77E+01	4.28E+01	6.56E+01
Sample ID: 589850	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	7.83E+02	1.48E+02	2.12E+02
Sample ID: 592008	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 59 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID: 592008	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<3.39E+00	0.00E+00	3.39E+00
		Fe-59	<6.61E+00	0.00E+00	6.61E+00
		Co-60	<2.39E+00	0.00E+00	2.39E+00
		Zn-65	<7.91E+00	0.00E+00	7.91E+00
		Zr-95	<8.28E+00	0.00E+00	8.28E+00
		Nb-95	<4.93E+00	0.00E+00	4.93E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.94E+00	0.00E+00	4.94E+00
		Cs-137	<2.46E+00	0.00E+00	2.46E+00
		BaLa-140	<8.96E+00	0.00E+00	8.96E+00
		Be-7	<3.78E+01	0.00E+00	3.78E+01
		K-40	8.32E+01	3.78E+01	4.51E+01
Sample ID: 593344	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<4.17E+00	0.00E+00	4.17E+00
		Co-58	<4.81E+00	0.00E+00	4.81E+00
		Fe-59	<1.14E+01	0.00E+00	1.14E+01
		Co-60	<4.00E+00	0.00E+00	4.00E+00
		Zn-65	<8.67E+00	0.00E+00	8.67E+00
		Zr-95	<8.53E+00	0.00E+00	8.53E+00
		Nb-95	<6.91E+00	0.00E+00	6.91E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<3.85E+00	0.00E+00	3.85E+00
		BaLa-140	<6.49E+00	0.00E+00	6.49E+00
		Be-7	<3.34E+01	0.00E+00	3.34E+01
		K-40	<9.30E+01	0.00E+00	9.30E+01
Sample ID: 594897	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.15E+00	0.00E+00	3.15E+00
		Mn-54	<3.76E+00	0.00E+00	3.76E+00
		Co-58	<5.41E+00	0.00E+00	5.41E+00
		Fe-59	<9.27E+00	0.00E+00	9.27E+00
		Co-60	<4.37E+00	0.00E+00	4.37E+00
		Zn-65	<9.76E+00	0.00E+00	9.76E+00
		Zr-95	<8.57E+00	0.00E+00	8.57E+00
		Nb-95	<6.97E+00	0.00E+00	6.97E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<5.42E+00	0.00E+00	5.42E+00
		Cs-137	<5.01E+00	0.00E+00	5.01E+00
		BaLa-140	<1.09E+01	0.00E+00	1.09E+01
		Be-7	<4.23E+01	0.00E+00	4.23E+01
		K-40	7.54E+01	4.05E+01	4.96E+01
Sample ID: 593697	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	8.53E+02	1.30E+02	1.77E+02
Sample ID: 597210	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<4.36E+00	0.00E+00	4.36E+00
		Co-58	<5.69E+00	0.00E+00	5.69E+00
		Fe-59	<1.17E+01	0.00E+00	1.17E+01
		Co-60	<4.37E+00	0.00E+00	4.37E+00
		Zn-65	<9.21E+00	0.00E+00	9.21E+00
		Zr-95	<9.48E+00	0.00E+00	9.48E+00
		Nb-95	<5.07E+00	0.00E+00	5.07E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<4.63E+00	0.00E+00	4.63E+00
		Cs-137	<3.42E+00	0.00E+00	3.42E+00
		BaLa-140	<7.94E+00	0.00E+00	7.94E+00
		Be-7	<3.83E+01	0.00E+00	3.83E+01
		K-40	<8.25E+01	0.00E+00	8.25E+01
Sample ID: 598970	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 60 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID: 598970	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.04E+00	0.00E+00	5.04E+00
		Co-58	<4.61E+00	0.00E+00	4.61E+00
		Fe-59	<7.03E+00	0.00E+00	7.03E+00
		Co-60	<5.00E+00	0.00E+00	5.00E+00
		Zn-65	<9.23E+00	0.00E+00	9.23E+00
		Zr-95	<6.91E+00	0.00E+00	6.91E+00
		Nb-95	<5.80E+00	0.00E+00	5.80E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<5.23E+00	0.00E+00	5.23E+00
		Cs-137	<3.42E+00	0.00E+00	3.42E+00
		BaLa-140	<9.52E+00	0.00E+00	9.52E+00
		Be-7	<3.20E+01	0.00E+00	3.20E+01
		K-40	7.30E+01	4.02E+01	5.00E+01

Sample ID: 601208	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.11E+00	0.00E+00	3.11E+00
		Co-58	<3.84E+00	0.00E+00	3.84E+00
		Fe-59	<8.68E+00	0.00E+00	8.68E+00
		Co-60	<4.13E+00	0.00E+00	4.13E+00
		Zn-65	<6.11E+00	0.00E+00	6.11E+00
		Zr-95	<7.41E+00	0.00E+00	7.41E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.24E+00	0.00E+00	3.24E+00
		Cs-137	<3.90E+00	0.00E+00	3.90E+00
		BaLa-140	<9.27E+00	0.00E+00	9.27E+00
		Be-7	<3.78E+01	0.00E+00	3.78E+01
		K-40	9.56E+01	3.54E+01	2.79E+01

Sample ID: 599983	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	8.82E+02	1.34E+02	1.83E+02

Sample ID: 602634	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<3.37E+00	0.00E+00	3.37E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<6.59E+00	0.00E+00	6.59E+00
		Co-60	<2.89E+00	0.00E+00	2.89E+00
		Zn-65	<6.35E+00	0.00E+00	6.35E+00
		Zr-95	<6.51E+00	0.00E+00	6.51E+00
		Nb-95	<4.13E+00	0.00E+00	4.13E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<3.25E+00	0.00E+00	3.25E+00
		Cs-137	<2.50E+00	0.00E+00	2.50E+00
		BaLa-140	<7.22E+00	0.00E+00	7.22E+00
		Be-7	<2.86E+01	0.00E+00	2.86E+01
		K-40	8.69E+01	3.79E+01	5.05E+01

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 583273	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.28E+00	0.00E+00	3.28E+00
		Mn-54	<3.57E+00	0.00E+00	3.57E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<7.87E+00	0.00E+00	7.87E+00
		Co-60	<4.08E+00	0.00E+00	4.08E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<6.28E+00	0.00E+00	6.28E+00
		Nb-95	<5.58E+00	0.00E+00	5.58E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.58E+00	0.00E+00	3.58E+00
		Cs-137	<3.80E+00	0.00E+00	3.80E+00
		BaLa-140	<8.06E+00	0.00E+00	8.06E+00
		Be-7	<3.90E+01	0.00E+00	3.90E+01
		K-40	<7.19E+01	0.00E+00	7.19E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 61 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 585467	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<3.92E+00	0.00E+00	3.92E+00
		Co-58	<3.58E+00	0.00E+00	3.58E+00
		Fe-59	<7.42E+00	0.00E+00	7.42E+00
		Co-60	<2.14E+00	0.00E+00	2.14E+00
		Zn-65	<4.95E+00	0.00E+00	4.95E+00
		Zr-95	<5.97E+00	0.00E+00	5.97E+00
		Nb-95	<5.67E+00	0.00E+00	5.67E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<4.68E+00	0.00E+00	4.68E+00
		Cs-137	<2.53E+00	0.00E+00	2.53E+00
		BaLa-140	<7.19E+00	0.00E+00	7.19E+00
		Be-7	<3.66E+01	0.00E+00	3.66E+01
		K-40	<6.95E+01	0.00E+00	6.95E+01
Sample ID: 586786	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<3.17E+00	0.00E+00	3.17E+00
		Fe-59	<8.90E+00	0.00E+00	8.90E+00
		Co-60	<3.60E+00	0.00E+00	3.60E+00
		Zn-65	<6.59E+00	0.00E+00	6.59E+00
		Zr-95	<8.03E+00	0.00E+00	8.03E+00
		Nb-95	<4.18E+00	0.00E+00	4.18E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.11E+00	0.00E+00	4.11E+00
		Cs-137	<2.14E+00	0.00E+00	2.14E+00
		BaLa-140	<5.37E+00	0.00E+00	5.37E+00
		Be-7	<3.89E+01	0.00E+00	3.89E+01
		K-40	8.02E+01	2.65E+01	4.24E+01
Sample ID: 585157	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	4.45E+02	1.26E+02	1.92E+02
Sample ID: 587926	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.13E+00	0.00E+00	3.13E+00
		Co-58	<3.76E+00	0.00E+00	3.76E+00
		Fe-59	<7.81E+00	0.00E+00	7.81E+00
		Co-60	<3.80E+00	0.00E+00	3.80E+00
		Zn-65	<6.96E+00	0.00E+00	6.96E+00
		Zr-95	<7.63E+00	0.00E+00	7.63E+00
		Nb-95	<4.35E+00	0.00E+00	4.35E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.06E+00	0.00E+00	4.06E+00
		Cs-137	<3.06E+00	0.00E+00	3.06E+00
		BaLa-140	<6.25E+00	0.00E+00	6.25E+00
		Be-7	<3.59E+01	0.00E+00	3.59E+01
		K-40	7.21E+01	3.77E+01	4.93E+01
Sample ID: 589939	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.91E+00	4.23E+00	3.16E+00
		Mn-54	<2.75E+00	0.00E+00	2.75E+00
		Co-58	<3.37E+00	0.00E+00	3.37E+00
		Fe-59	<8.35E+00	0.00E+00	8.35E+00
		Co-60	<4.46E+00	0.00E+00	4.46E+00
		Zn-65	<6.77E+00	0.00E+00	6.77E+00
		Zr-95	<6.25E+00	0.00E+00	6.25E+00
		Nb-95	<3.93E+00	0.00E+00	3.93E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.54E+00	0.00E+00	3.54E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<7.87E+00	0.00E+00	7.87E+00
		Be-7	<3.81E+01	0.00E+00	3.81E+01
		K-40	7.89E+01	4.23E+01	5.82E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 62 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 590801	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.17E+00	0.00E+00	4.17E+00
		Co-58	<5.20E+00	0.00E+00	5.20E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<5.29E+00	0.00E+00	5.29E+00
		Zn-65	<9.23E+00	0.00E+00	9.23E+00
		Zr-95	<9.22E+00	0.00E+00	9.22E+00
		Nb-95	<5.79E+00	0.00E+00	5.79E+00
		I-131	<1.03E+01	0.00E+00	1.03E+01
		Cs-134	<5.04E+00	0.00E+00	5.04E+00
		Cs-137	<3.64E+00	0.00E+00	3.64E+00
		BaLa-140	<8.20E+00	0.00E+00	8.20E+00
		Be-7	<4.71E+01	0.00E+00	4.71E+01
		K-40	1.09E+02	4.78E+01	5.46E+01
Sample ID: 589851	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	4.31E+02	1.36E+02	2.11E+02
Sample ID: 592009	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<2.56E+00	0.00E+00	2.56E+00
		Co-58	<2.82E+00	0.00E+00	2.82E+00
		Fe-59	<9.72E+00	0.00E+00	9.72E+00
		Co-60	<4.31E+00	0.00E+00	4.31E+00
		Zn-65	<6.31E+00	0.00E+00	6.31E+00
		Zr-95	<8.65E+00	0.00E+00	8.65E+00
		Nb-95	<4.94E+00	0.00E+00	4.94E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<4.45E+00	0.00E+00	4.45E+00
		Cs-137	<3.30E+00	0.00E+00	3.30E+00
		BaLa-140	<1.08E+01	0.00E+00	1.08E+01
		Be-7	<3.80E+01	0.00E+00	3.80E+01
		K-40	6.19E+01	3.56E+01	4.60E+01
Sample ID: 593345	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<3.76E+00	0.00E+00	3.76E+00
		Co-58	<4.69E+00	0.00E+00	4.69E+00
		Fe-59	<9.86E+00	0.00E+00	9.86E+00
		Co-60	<3.65E+00	0.00E+00	3.65E+00
		Zn-65	<7.85E+00	0.00E+00	7.85E+00
		Zr-95	<8.32E+00	0.00E+00	8.32E+00
		Nb-95	<4.63E+00	0.00E+00	4.63E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.76E+00	0.00E+00	3.76E+00
		Cs-137	<3.50E+00	0.00E+00	3.50E+00
		BaLa-140	<9.73E+00	0.00E+00	9.73E+00
		Be-7	<3.61E+01	0.00E+00	3.61E+01
		K-40	7.00E+01	3.66E+01	4.36E+01
Sample ID: 594898	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.56E+00	4.21E+00	3.15E+00
		Mn-54	<2.78E+00	0.00E+00	2.78E+00
		Co-58	<3.81E+00	0.00E+00	3.81E+00
		Fe-59	<8.62E+00	0.00E+00	8.62E+00
		Co-60	<3.89E+00	0.00E+00	3.89E+00
		Zn-65	<6.59E+00	0.00E+00	6.59E+00
		Zr-95	<6.60E+00	0.00E+00	6.60E+00
		Nb-95	<4.17E+00	0.00E+00	4.17E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<4.42E+00	0.00E+00	4.42E+00
		Cs-137	<2.91E+00	0.00E+00	2.91E+00
		BaLa-140	<7.40E+00	0.00E+00	7.40E+00
		Be-7	<2.82E+01	0.00E+00	2.82E+01
		K-40	8.08E+01	3.83E+01	5.10E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 63 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID:	593698	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	4.91E+02	1.18E+02	1.75E+02
Sample ID:	597211	Sample Dates:	9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<2.79E+00	0.00E+00	2.79E+00
				Co-58	<3.71E+00	0.00E+00	3.71E+00
				Fe-59	<8.79E+00	0.00E+00	8.79E+00
				Co-60	<4.19E+00	0.00E+00	4.19E+00
				Zn-65	<1.03E+01	0.00E+00	1.03E+01
				Zr-95	<6.59E+00	0.00E+00	6.59E+00
				Nb-95	<4.57E+00	0.00E+00	4.57E+00
				I-131	<1.35E+01	0.00E+00	1.35E+01
				Cs-134	<3.89E+00	0.00E+00	3.89E+00
				Cs-137	<2.89E+00	0.00E+00	2.89E+00
				BaLa-140	<9.76E+00	0.00E+00	9.76E+00
				Be-7	<3.30E+01	0.00E+00	3.30E+01
				K-40	5.24E+01	3.26E+01	4.44E+01
Sample ID:	598971	Sample Dates:	10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<3.81E+00	0.00E+00	3.81E+00
				Co-58	<3.17E+00	0.00E+00	3.17E+00
				Fe-59	<9.57E+00	0.00E+00	9.57E+00
				Co-60	<4.92E+00	0.00E+00	4.92E+00
				Zn-65	<1.02E+01	0.00E+00	1.02E+01
				Zr-95	<8.08E+00	0.00E+00	8.08E+00
				Nb-95	<6.06E+00	0.00E+00	6.06E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<5.04E+00	0.00E+00	5.04E+00
				Cs-137	<2.80E+00	0.00E+00	2.80E+00
				BaLa-140	<5.80E+00	0.00E+00	5.80E+00
				Be-7	<2.90E+01	0.00E+00	2.90E+01
				K-40	1.04E+02	4.60E+01	5.53E+01
Sample ID:	601209	Sample Dates:	10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<3.03E+00	0.00E+00	3.03E+00
				Co-58	<3.98E+00	0.00E+00	3.98E+00
				Fe-59	<6.57E+00	0.00E+00	6.57E+00
				Co-60	<2.51E+00	0.00E+00	2.51E+00
				Zn-65	<6.40E+00	0.00E+00	6.40E+00
				Zr-95	<6.56E+00	0.00E+00	6.56E+00
				Nb-95	<4.17E+00	0.00E+00	4.17E+00
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<4.23E+00	0.00E+00	4.23E+00
				Cs-137	<2.40E+00	0.00E+00	2.40E+00
				BaLa-140	<4.35E+00	0.00E+00	4.35E+00
				Be-7	<3.01E+01	0.00E+00	3.01E+01
				K-40	7.29E+01	3.24E+01	3.90E+01
Sample ID:	599984	Sample Dates:	10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	6.43E+02	1.27E+02	1.84E+02
Sample ID:	602635	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.25E+00	0.00E+00	3.25E+00
				Mn-54	<3.01E+00	0.00E+00	3.01E+00
				Co-58	<2.78E+00	0.00E+00	2.78E+00
				Fe-59	<5.58E+00	0.00E+00	5.58E+00
				Co-60	<2.43E+00	0.00E+00	2.43E+00
				Zn-65	<5.80E+00	0.00E+00	5.80E+00
				Zr-95	<4.94E+00	0.00E+00	4.94E+00
				Nb-95	<3.64E+00	0.00E+00	3.64E+00
				I-131	<1.12E+01	0.00E+00	1.12E+01
				Cs-134	<2.92E+00	0.00E+00	2.92E+00
				Cs-137	<2.13E+00	0.00E+00	2.13E+00
				BaLa-140	<6.00E+00	0.00E+00	6.00E+00
				Be-7	<2.56E+01	0.00E+00	2.56E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 64 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID:	602635	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	8.29E+01	3.20E+01	3.93E+01

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID:	583274	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.28E+00	0.00E+00	3.28E+00
				Mn-54	<4.00E+00	0.00E+00	4.00E+00
				Co-58	<4.19E+00	0.00E+00	4.19E+00
				Fe-59	<6.37E+00	0.00E+00	6.37E+00
				Co-60	<3.06E+00	0.00E+00	3.06E+00
				Zn-65	<6.04E+00	0.00E+00	6.04E+00
				Zr-95	<5.09E+00	0.00E+00	5.09E+00
				Nb-95	<3.84E+00	0.00E+00	3.84E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<3.76E+00	0.00E+00	3.76E+00
				Cs-137	<3.30E+00	0.00E+00	3.30E+00
				BaLa-140	<6.47E+00	0.00E+00	6.47E+00
				Be-7	<3.10E+01	0.00E+00	3.10E+01
				K-40	6.92E+01	3.63E+01	4.82E+01

Sample ID:	585468	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.25E+00	0.00E+00	3.25E+00
				Mn-54	<5.79E+00	0.00E+00	5.79E+00
				Co-58	<4.63E+00	0.00E+00	4.63E+00
				Fe-59	<9.82E+00	0.00E+00	9.82E+00
				Co-60	<5.02E+00	0.00E+00	5.02E+00
				Zn-65	<7.40E+00	0.00E+00	7.40E+00
				Zr-95	<7.82E+00	0.00E+00	7.82E+00
				Nb-95	<5.16E+00	0.00E+00	5.16E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<5.63E+00	0.00E+00	5.63E+00
				Cs-137	<4.27E+00	0.00E+00	4.27E+00
				BaLa-140	<9.57E+00	0.00E+00	9.57E+00
				Be-7	<3.68E+01	0.00E+00	3.68E+01
				K-40	7.08E+01	3.80E+01	4.49E+01

Sample ID:	586787	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.29E+00	0.00E+00	3.29E+00
				Mn-54	<4.60E+00	0.00E+00	4.60E+00
				Co-58	<4.66E+00	0.00E+00	4.66E+00
				Fe-59	<1.05E+01	0.00E+00	1.05E+01
				Co-60	<3.67E+00	0.00E+00	3.67E+00
				Zn-65	<8.82E+00	0.00E+00	8.82E+00
				Zr-95	<7.86E+00	0.00E+00	7.86E+00
				Nb-95	<5.43E+00	0.00E+00	5.43E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<4.69E+00	0.00E+00	4.69E+00
				Cs-137	<4.28E+00	0.00E+00	4.28E+00
				BaLa-140	<9.73E+00	0.00E+00	9.73E+00
				Be-7	<3.55E+01	0.00E+00	3.55E+01
				K-40	<6.59E+01	0.00E+00	6.59E+01

Sample ID:	585158	Sample Dates:	12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	3.36E+02	1.23E+02	1.92E+02

Sample ID:	587927	Sample Dates:	3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.22E+00	0.00E+00	3.22E+00
				Mn-54	<3.66E+00	0.00E+00	3.66E+00
				Co-58	<4.49E+00	0.00E+00	4.49E+00
				Fe-59	<9.58E+00	0.00E+00	9.58E+00
				Co-60	<3.04E+00	0.00E+00	3.04E+00
				Zn-65	<9.02E+00	0.00E+00	9.02E+00
				Zr-95	<5.74E+00	0.00E+00	5.74E+00
				Nb-95	<5.23E+00	0.00E+00	5.23E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<3.55E+00	0.00E+00	3.55E+00
				Cs-137	<3.95E+00	0.00E+00	3.95E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 65 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID: 587927	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<4.17E+01	0.00E+00	4.17E+01
		K-40	7.87E+01	3.90E+01	4.41E+01
Sample ID: 589940	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.16E+00	0.00E+00	3.16E+00
		Mn-54	<3.36E+00	0.00E+00	3.36E+00
		Co-58	<3.59E+00	0.00E+00	3.59E+00
		Fe-59	<7.82E+00	0.00E+00	7.82E+00
		Co-60	<3.64E+00	0.00E+00	3.64E+00
		Zn-65	<6.70E+00	0.00E+00	6.70E+00
		Zr-95	<7.77E+00	0.00E+00	7.77E+00
		Nb-95	<4.77E+00	0.00E+00	4.77E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.85E+00	0.00E+00	3.85E+00
		Cs-137	<4.20E+00	0.00E+00	4.20E+00
		BaLa-140	<5.69E+00	0.00E+00	5.69E+00
		Be-7	<3.09E+01	0.00E+00	3.09E+01
Sample ID: 590802	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.28E+00	0.00E+00	3.28E+00
		Co-58	<4.73E+00	0.00E+00	4.73E+00
		Fe-59	<9.83E+00	0.00E+00	9.83E+00
		Co-60	<3.35E+00	0.00E+00	3.35E+00
		Zn-65	<8.10E+00	0.00E+00	8.10E+00
		Zr-95	<7.35E+00	0.00E+00	7.35E+00
		Nb-95	<4.43E+00	0.00E+00	4.43E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.32E+00	0.00E+00	4.32E+00
		Cs-137	<4.06E+00	0.00E+00	4.06E+00
		BaLa-140	<5.44E+00	0.00E+00	5.44E+00
		Be-7	<4.11E+01	0.00E+00	4.11E+01
Sample ID: 589852	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	4.79E+02	1.39E+02	2.13E+02
Sample ID: 592010	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<2.64E+00	0.00E+00	2.64E+00
		Co-58	<4.23E+00	0.00E+00	4.23E+00
		Fe-59	<6.86E+00	0.00E+00	6.86E+00
		Co-60	<2.15E+00	0.00E+00	2.15E+00
		Zn-65	<8.96E+00	0.00E+00	8.96E+00
		Zr-95	<7.81E+00	0.00E+00	7.81E+00
		Nb-95	<5.61E+00	0.00E+00	5.61E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.91E+00	0.00E+00	4.91E+00
		Cs-137	<3.57E+00	0.00E+00	3.57E+00
		BaLa-140	<9.37E+00	0.00E+00	9.37E+00
		Be-7	<3.54E+01	0.00E+00	3.54E+01
Sample ID: 593346	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<3.75E+00	0.00E+00	3.75E+00
		Co-58	<3.27E+00	0.00E+00	3.27E+00
		Fe-59	<8.08E+00	0.00E+00	8.08E+00
		Co-60	<3.49E+00	0.00E+00	3.49E+00
		Zn-65	<7.24E+00	0.00E+00	7.24E+00
		Zr-95	<5.49E+00	0.00E+00	5.49E+00
		Nb-95	<5.16E+00	0.00E+00	5.16E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.29E+00	0.00E+00	3.29E+00
		Cs-137	<3.54E+00	0.00E+00	3.54E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 66 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID: 593346	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<8.66E+00	0.00E+00	8.66E+00
		Be-7	<3.18E+01	0.00E+00	3.18E+01
		K-40	8.44E+01	3.61E+01	4.08E+01
Sample ID: 594899	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.29E+00	4.21E+00	3.15E+00
		Mn-54	<2.56E+00	0.00E+00	2.56E+00
		Co-58	<3.37E+00	0.00E+00	3.37E+00
		Fe-59	<7.36E+00	0.00E+00	7.36E+00
		Co-60	<4.04E+00	0.00E+00	4.04E+00
		Zn-65	<5.58E+00	0.00E+00	5.58E+00
		Zr-95	<7.64E+00	0.00E+00	7.64E+00
		Nb-95	<4.04E+00	0.00E+00	4.04E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<4.31E+00	0.00E+00	4.31E+00
		Cs-137	<2.85E+00	0.00E+00	2.85E+00
		BaLa-140	<7.05E+00	0.00E+00	7.05E+00
		Be-7	<3.97E+01	0.00E+00	3.97E+01
		K-40	1.04E+02	3.60E+01	3.65E+01
Sample ID: 593699	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	5.14E+02	1.18E+02	1.75E+02
Sample ID: 597212	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.36E+00	0.00E+00	3.36E+00
		Co-58	<2.65E+00	0.00E+00	2.65E+00
		Fe-59	<8.21E+00	0.00E+00	8.21E+00
		Co-60	<4.24E+00	0.00E+00	4.24E+00
		Zn-65	<7.23E+00	0.00E+00	7.23E+00
		Zr-95	<8.20E+00	0.00E+00	8.20E+00
		Nb-95	<5.31E+00	0.00E+00	5.31E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<5.10E+00	0.00E+00	5.10E+00
		BaLa-140	<5.72E+00	0.00E+00	5.72E+00
		Be-7	<3.76E+01	0.00E+00	3.76E+01
		K-40	<8.54E+01	0.00E+00	8.54E+01
Sample ID: 598972	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<4.91E+00	0.00E+00	4.91E+00
		Co-58	<2.05E+00	0.00E+00	2.05E+00
		Fe-59	<7.87E+00	0.00E+00	7.87E+00
		Co-60	<4.39E+00	0.00E+00	4.39E+00
		Zn-65	<8.08E+00	0.00E+00	8.08E+00
		Zr-95	<9.29E+00	0.00E+00	9.29E+00
		Nb-95	<5.17E+00	0.00E+00	5.17E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.44E+00	0.00E+00	4.44E+00
		Cs-137	<4.62E+00	0.00E+00	4.62E+00
		BaLa-140	<9.62E+00	0.00E+00	9.62E+00
		Be-7	<3.55E+01	0.00E+00	3.55E+01
		K-40	1.10E+02	5.05E+01	6.13E+01
Sample ID: 601210	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.07E+00	0.00E+00	3.07E+00
		Co-58	<3.29E+00	0.00E+00	3.29E+00
		Fe-59	<8.64E+00	0.00E+00	8.64E+00
		Co-60	<3.76E+00	0.00E+00	3.76E+00
		Zn-65	<5.99E+00	0.00E+00	5.99E+00
		Zr-95	<6.07E+00	0.00E+00	6.07E+00
		Nb-95	<4.70E+00	0.00E+00	4.70E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.25E+00	0.00E+00	4.25E+00
		Cs-137	<4.18E+00	0.00E+00	4.18E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 67 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID: 601210	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<7.34E+00	0.00E+00	7.34E+00
		Be-7	<3.56E+01	0.00E+00	3.56E+01
		K-40	9.41E+01	3.29E+01	3.03E+01
Sample ID: 599985	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	6.04E+02	1.26E+02	1.83E+02
Sample ID: 602636	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<3.40E+00	0.00E+00	3.40E+00
		Co-58	<4.15E+00	0.00E+00	4.15E+00
		Fe-59	<9.83E+00	0.00E+00	9.83E+00
		Co-60	<3.96E+00	0.00E+00	3.96E+00
		Zn-65	<1.01E+01	0.00E+00	1.01E+01
		Zr-95	<6.93E+00	0.00E+00	6.93E+00
		Nb-95	<4.40E+00	0.00E+00	4.40E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.89E+00	0.00E+00	3.89E+00
		Cs-137	<4.20E+00	0.00E+00	4.20E+00
		BaLa-140	<1.22E+01	0.00E+00	1.22E+01
		Be-7	<3.81E+01	0.00E+00	3.81E+01
		K-40	9.76E+01	4.95E+01	6.40E+01

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID: 583275	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.22E+00	4.42E+00	3.28E+00
		Mn-54	<4.02E+00	0.00E+00	4.02E+00
		Co-58	<4.42E+00	0.00E+00	4.42E+00
		Fe-59	<7.90E+00	0.00E+00	7.90E+00
		Co-60	<4.81E+00	0.00E+00	4.81E+00
		Zn-65	<8.81E+00	0.00E+00	8.81E+00
		Zr-95	<9.27E+00	0.00E+00	9.27E+00
		Nb-95	<5.13E+00	0.00E+00	5.13E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.97E+00	0.00E+00	3.97E+00
		Cs-137	<4.28E+00	0.00E+00	4.28E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
		Be-7	<4.57E+01	0.00E+00	4.57E+01
		K-40	6.30E+01	3.80E+01	4.85E+01
Sample ID: 585469	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<4.25E+00	0.00E+00	4.25E+00
		Co-58	<5.41E+00	0.00E+00	5.41E+00
		Fe-59	<4.69E+00	0.00E+00	4.69E+00
		Co-60	<2.41E+00	0.00E+00	2.41E+00
		Zn-65	<7.21E+00	0.00E+00	7.21E+00
		Zr-95	<5.73E+00	0.00E+00	5.73E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<9.25E+00	0.00E+00	9.25E+00
		Cs-134	<5.10E+00	0.00E+00	5.10E+00
		Cs-137	<4.13E+00	0.00E+00	4.13E+00
		BaLa-140	<6.34E+00	0.00E+00	6.34E+00
		Be-7	<3.70E+01	0.00E+00	3.70E+01
		K-40	9.46E+01	4.83E+01	6.22E+01
Sample ID: 586788	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.87E+00	0.00E+00	3.87E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<4.72E+00	0.00E+00	4.72E+00
		Zn-65	<8.47E+00	0.00E+00	8.47E+00
		Zr-95	<5.73E+00	0.00E+00	5.73E+00
		Nb-95	<5.83E+00	0.00E+00	5.83E+00
		I-131	<1.28E+01	0.00E+00	1.27E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 68 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID: 586788	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<4.72E+00	0.00E+00	4.72E+00
		Cs-137	<3.76E+00	0.00E+00	3.76E+00
		BaLa-140	<9.26E+00	0.00E+00	9.26E+00
		Be-7	<3.45E+01	0.00E+00	3.45E+01
		K-40	<8.11E+01	0.00E+00	8.11E+01
Sample ID: 585159	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<4.45E+01	0.00E+00	1.92E+02
Sample ID: 587928	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<4.74E+00	0.00E+00	4.74E+00
		Fe-59	<8.38E+00	0.00E+00	8.38E+00
		Co-60	<3.98E+00	0.00E+00	3.98E+00
		Zn-65	<9.34E+00	0.00E+00	9.34E+00
		Zr-95	<9.51E+00	0.00E+00	9.51E+00
		Nb-95	<3.67E+00	0.00E+00	3.67E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<4.60E+00	0.00E+00	4.60E+00
		Cs-137	<4.84E+00	0.00E+00	4.84E+00
		BaLa-140	<1.13E+01	0.00E+00	1.13E+01
		Be-7	<4.20E+01	0.00E+00	4.20E+01
		K-40	9.22E+01	5.41E+01	7.75E+01
Sample ID: 589941	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.16E+00	0.00E+00	3.16E+00
		Mn-54	<5.11E+00	0.00E+00	5.11E+00
		Co-58	<4.60E+00	0.00E+00	4.60E+00
		Fe-59	<8.97E+00	0.00E+00	8.97E+00
		Co-60	<5.26E+00	0.00E+00	5.26E+00
		Zn-65	<9.09E+00	0.00E+00	9.09E+00
		Zr-95	<8.56E+00	0.00E+00	8.56E+00
		Nb-95	<4.85E+00	0.00E+00	4.85E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.50E+00	0.00E+00	3.50E+00
		Cs-137	<3.84E+00	0.00E+00	3.84E+00
		BaLa-140	<6.80E+00	0.00E+00	6.80E+00
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	<6.76E+01	0.00E+00	6.76E+01
Sample ID: 590803	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.25E+00	0.00E+00	4.25E+00
		Co-58	<3.59E+00	0.00E+00	3.59E+00
		Fe-59	<8.48E+00	0.00E+00	8.48E+00
		Co-60	<3.60E+00	0.00E+00	3.60E+00
		Zn-65	<7.57E+00	0.00E+00	7.57E+00
		Zr-95	<7.81E+00	0.00E+00	7.81E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<2.82E+00	0.00E+00	2.82E+00
		BaLa-140	<7.82E+00	0.00E+00	7.82E+00
		Be-7	<4.02E+01	0.00E+00	4.02E+01
		K-40	6.43E+01	3.69E+01	4.89E+01
Sample ID: 589853	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-8.8E+01	0.00E+00	2.12E+02
Sample ID: 592011	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<3.46E+00	0.00E+00	3.46E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<5.85E+00	0.00E+00	5.85E+00
		Co-60	<3.93E+00	0.00E+00	3.93E+00
		Zn-65	<8.12E+00	0.00E+00	8.12E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 69 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID: 592011	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zr-95	<7.08E+00	0.00E+00	7.08E+00
		Nb-95	<3.84E+00	0.00E+00	3.84E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.02E+00	0.00E+00	3.02E+00
		Cs-137	<3.52E+00	0.00E+00	3.52E+00
		BaLa-140	<8.87E+00	0.00E+00	8.87E+00
		Be-7	<3.97E+01	0.00E+00	3.97E+01
		K-40	8.26E+01	4.10E+01	5.19E+01
Sample ID: 593347	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<3.02E+00	0.00E+00	3.02E+00
		Co-58	<3.95E+00	0.00E+00	3.95E+00
		Fe-59	<7.89E+00	0.00E+00	7.89E+00
		Co-60	<3.34E+00	0.00E+00	3.34E+00
		Zn-65	<6.61E+00	0.00E+00	6.61E+00
		Zr-95	<6.20E+00	0.00E+00	6.20E+00
		Nb-95	<4.07E+00	0.00E+00	4.07E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.52E+00	0.00E+00	3.52E+00
		Cs-137	<3.22E+00	0.00E+00	3.22E+00
		BaLa-140	<8.84E+00	0.00E+00	8.84E+00
		Be-7	<3.49E+01	0.00E+00	3.49E+01
		K-40	6.25E+01	3.64E+01	4.95E+01
Sample ID: 594900	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.15E+00	0.00E+00	3.15E+00
		Mn-54	<3.44E+00	0.00E+00	3.44E+00
		Co-58	<4.51E+00	0.00E+00	4.51E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<3.93E+00	0.00E+00	3.93E+00
		Zn-65	<7.89E+00	0.00E+00	7.89E+00
		Zr-95	<4.45E+00	0.00E+00	4.45E+00
		Nb-95	<3.97E+00	0.00E+00	3.97E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.55E+00	0.00E+00	3.55E+00
		Cs-137	<4.77E+00	0.00E+00	4.77E+00
		BaLa-140	<1.33E+01	0.00E+00	1.33E+01
		Be-7	<4.19E+01	0.00E+00	4.19E+01
		K-40	8.39E+01	4.44E+01	5.66E+01
Sample ID: 593700	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.01E+02	0.00E+00	1.75E+02
Sample ID: 597213	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.56E+00	0.00E+00	3.56E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<8.79E+00	0.00E+00	8.79E+00
		Co-60	<4.05E+00	0.00E+00	4.05E+00
		Zn-65	<6.31E+00	0.00E+00	6.31E+00
		Zr-95	<7.84E+00	0.00E+00	7.84E+00
		Nb-95	<3.91E+00	0.00E+00	3.91E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<4.47E+00	0.00E+00	4.47E+00
		Cs-137	<3.48E+00	0.00E+00	3.48E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	7.11E+01	3.30E+01	3.37E+01
Sample ID: 598973	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<2.59E+00	0.00E+00	2.59E+00
		Co-58	<4.63E+00	0.00E+00	4.63E+00
		Fe-59	<9.98E+00	0.00E+00	9.98E+00
		Co-60	<2.99E+00	0.00E+00	2.99E+00
		Zn-65	<8.36E+00	0.00E+00	8.36E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 70 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID:	598973	Sample Dates:	10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Zr-95	<9.47E+00	0.00E+00	9.47E+00
				Nb-95	<5.37E+00	0.00E+00	5.37E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<5.21E+00	0.00E+00	5.21E+00
				Cs-137	<3.71E+00	0.00E+00	3.71E+00
				BaLa-140	<7.93E+00	0.00E+00	7.93E+00
				Be-7	<3.53E+01	0.00E+00	3.53E+01
				K-40	8.14E+01	3.53E+01	2.96E+01

Sample ID:	601211	Sample Dates:	10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<3.12E+00	0.00E+00	3.12E+00
				Co-58	<3.11E+00	0.00E+00	3.11E+00
				Fe-59	<6.74E+00	0.00E+00	6.74E+00
				Co-60	<2.81E+00	0.00E+00	2.81E+00
				Zn-65	<5.93E+00	0.00E+00	5.93E+00
				Zr-95	<5.74E+00	0.00E+00	5.74E+00
				Nb-95	<4.40E+00	0.00E+00	4.40E+00
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<3.46E+00	0.00E+00	3.46E+00
				Cs-137	<2.19E+00	0.00E+00	2.19E+00
				BaLa-140	<7.22E+00	0.00E+00	7.22E+00
				Be-7	<3.28E+01	0.00E+00	3.28E+01
				K-40	6.10E+01	3.19E+01	4.17E+01

Sample ID:	599986	Sample Dates:	10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	<1.17E+02	0.00E+00	1.83E+02

Sample ID:	602637	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.25E+00	0.00E+00	3.25E+00
				Mn-54	<3.55E+00	0.00E+00	3.55E+00
				Co-58	<3.51E+00	0.00E+00	3.51E+00
				Fe-59	<7.79E+00	0.00E+00	7.79E+00
				Co-60	<3.61E+00	0.00E+00	3.61E+00
				Zn-65	<7.80E+00	0.00E+00	7.80E+00
				Zr-95	<6.23E+00	0.00E+00	6.23E+00
				Nb-95	<4.45E+00	0.00E+00	4.45E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<4.50E+00	0.00E+00	4.50E+00
				Cs-137	<4.08E+00	0.00E+00	4.08E+00
				BaLa-140	<7.83E+00	0.00E+00	7.83E+00
				Be-7	<3.92E+01	0.00E+00	3.92E+01
				K-40	3.65E+01	3.95E+01	6.32E+01

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID:	583276	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.28E+00	0.00E+00	3.28E+00
				Mn-54	<3.63E+00	0.00E+00	3.63E+00
				Co-58	<4.43E+00	0.00E+00	4.43E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<4.04E+00	0.00E+00	4.04E+00
				Zn-65	<8.21E+00	0.00E+00	8.21E+00
				Zr-95	<5.50E+00	0.00E+00	5.50E+00
				Nb-95	<4.75E+00	0.00E+00	4.75E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<3.88E+00	0.00E+00	3.88E+00
				Cs-137	<3.10E+00	0.00E+00	3.10E+00
				BaLa-140	<9.03E+00	0.00E+00	9.03E+00
				Be-7	<3.59E+01	0.00E+00	3.59E+01
				K-40	9.22E+01	4.32E+01	5.45E+01

Sample ID:	585470	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.25E+00	0.00E+00	3.25E+00
				Mn-54	<3.81E+00	0.00E+00	3.81E+00
				Co-58	<3.94E+00	0.00E+00	3.94E+00
				Fe-59	<9.34E+00	0.00E+00	9.34E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 71 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID: 585470	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<4.47E+00	0.00E+00	4.47E+00
		Zn-65	<9.39E+00	0.00E+00	9.39E+00
		Zr-95	<8.24E+00	0.00E+00	8.24E+00
		Nb-95	<3.34E+00	0.00E+00	3.34E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<5.30E+00	0.00E+00	5.30E+00
		Cs-137	<3.90E+00	0.00E+00	3.90E+00
		BaLa-140	<1.18E+01	0.00E+00	1.18E+01
		Be-7	<3.93E+01	0.00E+00	3.93E+01
		K-40	7.43E+01	3.73E+01	3.99E+01
Sample ID: 586789	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<4.48E+00	0.00E+00	4.48E+00
		Co-58	<4.37E+00	0.00E+00	4.37E+00
		Fe-59	<8.10E+00	0.00E+00	8.10E+00
		Co-60	<3.41E+00	0.00E+00	3.41E+00
		Zn-65	<8.23E+00	0.00E+00	8.23E+00
		Zr-95	<6.97E+00	0.00E+00	6.97E+00
		Nb-95	<6.04E+00	0.00E+00	6.04E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<4.97E+00	0.00E+00	4.97E+00
		Cs-137	<3.25E+00	0.00E+00	3.25E+00
		BaLa-140	<1.32E+01	0.00E+00	1.32E+01
		Be-7	<3.66E+01	0.00E+00	3.66E+01
		K-40	7.09E+01	4.26E+01	5.78E+01
Sample ID: 585160	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.43E+02	0.00E+00	1.92E+02
Sample ID: 587929	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.12E+00	0.00E+00	3.12E+00
		Co-58	<3.44E+00	0.00E+00	3.44E+00
		Fe-59	<9.43E+00	0.00E+00	9.43E+00
		Co-60	<3.35E+00	0.00E+00	3.35E+00
		Zn-65	<7.67E+00	0.00E+00	7.67E+00
		Zr-95	<6.44E+00	0.00E+00	6.44E+00
		Nb-95	<3.83E+00	0.00E+00	3.83E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.34E+00	0.00E+00	4.34E+00
		Cs-137	<3.37E+00	0.00E+00	3.37E+00
		BaLa-140	<9.61E+00	0.00E+00	9.61E+00
		Be-7	<3.07E+01	0.00E+00	3.07E+01
		K-40	8.90E+01	3.44E+01	2.75E+01
Sample ID: 589942	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.16E+00	0.00E+00	3.16E+00
		Mn-54	<3.70E+00	0.00E+00	3.70E+00
		Co-58	<3.80E+00	0.00E+00	3.80E+00
		Fe-59	<7.36E+00	0.00E+00	7.36E+00
		Co-60	<3.25E+00	0.00E+00	3.25E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<1.00E+01	0.00E+00	1.00E+01
		Nb-95	<2.99E+00	0.00E+00	2.99E+00
		I-131	<1.20E+01	0.00E+00	1.21E+01
		Cs-134	<5.86E+00	0.00E+00	5.86E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<1.30E+01	0.00E+00	1.30E+01
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	<7.19E+01	0.00E+00	7.19E+01
Sample ID: 590804	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.55E+00	0.00E+00	3.55E+00
		Co-58	<4.09E+00	0.00E+00	4.09E+00
		Fe-59	<8.36E+00	0.00E+00	8.36E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 72 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID: 590804	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<3.76E+00	0.00E+00	3.76E+00
		Zn-65	<7.42E+00	0.00E+00	7.42E+00
		Zr-95	<9.11E+00	0.00E+00	9.11E+00
		Nb-95	<5.25E+00	0.00E+00	5.25E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.12E+00	0.00E+00	4.12E+00
		Cs-137	<3.75E+00	0.00E+00	3.75E+00
		BaLa-140	<5.55E+00	0.00E+00	5.55E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
Sample ID: 589854	Sample Dates: 4/17/2023 - 7/10/2023	K-40	5.59E+01	3.64E+01	5.04E+01
		H3DW	<2.73E+01	0.00E+00	2.11E+02
Sample ID: 592012	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<3.61E+00	0.00E+00	3.61E+00
		Co-58	<4.21E+00	0.00E+00	4.21E+00
		Fe-59	<8.25E+00	0.00E+00	8.25E+00
		Co-60	<4.56E+00	0.00E+00	4.56E+00
		Zn-65	<9.41E+00	0.00E+00	9.41E+00
		Zr-95	<5.64E+00	0.00E+00	5.64E+00
		Nb-95	<5.14E+00	0.00E+00	5.14E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.84E+00	0.00E+00	4.84E+00
		Cs-137	<3.70E+00	0.00E+00	3.70E+00
		BaLa-140	<7.95E+00	0.00E+00	7.95E+00
		Be-7	<4.16E+01	0.00E+00	4.16E+01
		K-40	<6.65E+01	0.00E+00	6.65E+01
Sample ID: 593348	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<3.05E+00	0.00E+00	3.05E+00
		Co-58	<2.60E+00	0.00E+00	2.60E+00
		Fe-59	<8.69E+00	0.00E+00	8.69E+00
		Co-60	<3.17E+00	0.00E+00	3.17E+00
		Zn-65	<6.73E+00	0.00E+00	6.73E+00
		Zr-95	<5.33E+00	0.00E+00	5.33E+00
		Nb-95	<4.93E+00	0.00E+00	4.93E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<5.10E+00	0.00E+00	5.10E+00
		Cs-137	<4.46E+00	0.00E+00	4.46E+00
		BaLa-140	<2.44E+00	0.00E+00	2.44E+00
		Be-7	<4.05E+01	0.00E+00	4.05E+01
		K-40	<7.21E+01	0.00E+00	7.21E+01
Sample ID: 594901	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.15E+00	0.00E+00	3.15E+00
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<4.18E+00	0.00E+00	4.18E+00
		Fe-59	<9.33E+00	0.00E+00	9.33E+00
		Co-60	<4.43E+00	0.00E+00	4.43E+00
		Zn-65	<8.75E+00	0.00E+00	8.75E+00
		Zr-95	<8.58E+00	0.00E+00	8.58E+00
		Nb-95	<4.93E+00	0.00E+00	4.93E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.65E+00	0.00E+00	4.65E+00
		Cs-137	<4.42E+00	0.00E+00	4.42E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<4.04E+01	0.00E+00	4.04E+01
		K-40	7.82E+01	4.26E+01	5.36E+01
Sample ID: 593701	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	1.77E+02	1.08E+02	1.75E+02
Sample ID: 597214	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 73 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID: 597214	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.27E+00	0.00E+00	3.27E+00
		Co-58	<3.40E+00	0.00E+00	3.40E+00
		Fe-59	<1.08E+01	0.00E+00	1.08E+01
		Co-60	<3.91E+00	0.00E+00	3.91E+00
		Zn-65	<6.66E+00	0.00E+00	6.66E+00
		Zr-95	<9.64E+00	0.00E+00	9.64E+00
		Nb-95	<4.72E+00	0.00E+00	4.72E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.99E+00	0.00E+00	3.99E+00
		Cs-137	<4.39E+00	0.00E+00	4.39E+00
		BaLa-140	<7.63E+00	0.00E+00	7.63E+00
		Be-7	<3.99E+01	0.00E+00	3.99E+01
		K-40	<7.51E+01	0.00E+00	7.51E+01
Sample ID: 598974	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<4.41E+00	0.00E+00	4.41E+00
		Co-58	<4.16E+00	0.00E+00	4.16E+00
		Fe-59	<8.88E+00	0.00E+00	8.88E+00
		Co-60	<4.57E+00	0.00E+00	4.57E+00
		Zn-65	<6.70E+00	0.00E+00	6.70E+00
		Zr-95	<8.01E+00	0.00E+00	8.01E+00
		Nb-95	<3.91E+00	0.00E+00	3.91E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<3.77E+00	0.00E+00	3.77E+00
		Cs-137	<4.41E+00	0.00E+00	4.41E+00
		BaLa-140	<1.28E+01	0.00E+00	1.28E+01
		Be-7	<2.91E+01	0.00E+00	2.91E+01
		K-40	<6.77E+01	0.00E+00	6.77E+01
Sample ID: 601212	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<3.13E+00	0.00E+00	3.13E+00
		Fe-59	<8.43E+00	0.00E+00	8.43E+00
		Co-60	<3.59E+00	0.00E+00	3.59E+00
		Zn-65	<5.88E+00	0.00E+00	5.88E+00
		Zr-95	<6.03E+00	0.00E+00	6.03E+00
		Nb-95	<4.24E+00	0.00E+00	4.24E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.10E+00	0.00E+00	4.10E+00
		Cs-137	<2.45E+00	0.00E+00	2.45E+00
		BaLa-140	<9.51E+00	0.00E+00	9.51E+00
		Be-7	<3.09E+01	0.00E+00	3.09E+01
		K-40	6.74E+01	3.35E+01	4.25E+01
Sample ID: 599987	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.03E+02	0.00E+00	1.83E+02
Sample ID: 602638	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.25E+00	0.00E+00	3.25E+00
		Mn-54	<3.80E+00	0.00E+00	3.80E+00
		Co-58	<3.50E+00	0.00E+00	3.50E+00
		Fe-59	<9.05E+00	0.00E+00	9.05E+00
		Co-60	<3.79E+00	0.00E+00	3.79E+00
		Zn-65	<8.75E+00	0.00E+00	8.75E+00
		Zr-95	<5.91E+00	0.00E+00	5.91E+00
		Nb-95	<3.94E+00	0.00E+00	3.94E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<2.59E+00	0.00E+00	2.59E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Be-7	<3.44E+01	0.00E+00	3.44E+01
		K-40	7.09E+01	4.22E+01	6.00E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 74 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID:	564481	Sample Dates:	4/11/2022 - 4/11/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.79E+01	0.00E+00	4.79E+01
					Co-58	<5.63E+01	0.00E+00	5.63E+01
					Fe-59	<9.96E+01	0.00E+00	9.96E+01
					Co-60	<5.89E+01	0.00E+00	5.89E+01
					Zn-65	<8.20E+01	0.00E+00	8.20E+01
					Nb-95	<6.07E+01	0.00E+00	6.07E+01
					I-131	<2.04E+02	0.00E+00	2.04E+02
					Cs-134	<5.29E+01	0.00E+00	5.29E+01
					Cs-137	<6.29E+01	0.00E+00	6.29E+01
					Be-7	<4.81E+02	0.00E+00	4.81E+02
					K-40	4.42E+03	1.06E+03	9.58E+02
					Ag-110M	<5.53E+01	0.00E+00	5.53E+01
					Sb-122	<4.93E+03	0.00E+00	4.93E+03
					Sb-125	<1.44E+02	0.00E+00	1.44E+02

Sample ID:	564482	Sample Dates:	4/11/2022 - 4/11/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.90E+01	0.00E+00	5.90E+01
					Co-58	<5.13E+01	0.00E+00	5.13E+01
					Fe-59	<1.17E+02	0.00E+00	1.17E+02
					Co-60	<4.80E+01	0.00E+00	4.80E+01
					Zn-65	<1.42E+02	0.00E+00	1.42E+02
					Nb-95	<6.54E+01	0.00E+00	6.54E+01
					I-131	<2.50E+02	0.00E+00	2.50E+02
					Cs-134	<5.06E+01	0.00E+00	5.06E+01
					Cs-137	<4.65E+01	0.00E+00	4.65E+01
					Be-7	<5.46E+02	0.00E+00	5.46E+02
					K-40	4.81E+03	1.03E+03	5.07E+02
					Ag-110M	<4.32E+01	0.00E+00	4.32E+01
					Sb-122	<3.61E+03	0.00E+00	3.61E+03
					Sb-125	<1.44E+02	0.00E+00	1.44E+02

Sample ID:	564492	Sample Dates:	4/11/2022 - 4/11/2022	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.96E+01	0.00E+00	5.96E+01
					Co-58	<6.89E+01	0.00E+00	6.89E+01
					Fe-59	<1.32E+02	0.00E+00	1.32E+02
					Co-60	<6.58E+01	0.00E+00	6.58E+01
					Zn-65	<1.21E+02	0.00E+00	1.21E+02
					Nb-95	<7.31E+01	0.00E+00	7.31E+01
					I-131	<2.49E+02	0.00E+00	2.49E+02
					Cs-134	<6.79E+01	0.00E+00	6.79E+01
					Cs-137	<6.38E+01	0.00E+00	6.38E+01
					Be-7	<6.37E+02	0.00E+00	6.37E+02
					K-40	4.85E+03	9.77E+02	1.11E+02
					Ag-110M	<5.45E+01	0.00E+00	5.45E+01
					Sb-122	<5.13E+03	0.00E+00	5.13E+03
					Sb-125	<1.57E+02	0.00E+00	1.57E+02

Sample ID:	577112	Sample Dates:	10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.82E+01	0.00E+00	5.82E+01
					Co-58	<4.98E+01	0.00E+00	4.98E+01
					Fe-59	<6.88E+01	0.00E+00	6.88E+01
					Co-60	<4.39E+01	0.00E+00	4.39E+01
					Zn-65	<1.45E+02	0.00E+00	1.45E+02
					Nb-95	<7.20E+01	0.00E+00	7.20E+01
					I-131	<5.42E+01	0.00E+00	5.42E+01
					Cs-134	<7.81E+01	0.00E+00	7.81E+01
					Cs-137	<4.95E+01	0.00E+00	4.95E+01
					Be-7	<5.21E+02	0.00E+00	5.21E+02
					K-40	4.87E+03	1.04E+03	1.28E+02
					Ag-110M	<4.13E+01	0.00E+00	4.13E+01
					Sb-122	<9.52E+01	0.00E+00	9.52E+01
					Sb-125	<1.53E+02	0.00E+00	1.53E+02

Sample ID:	577113	Sample Dates:	10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.83E+01	0.00E+00	7.83E+01
					Co-58	<5.29E+01	0.00E+00	5.29E+01
					Fe-59	<1.18E+02	0.00E+00	1.18E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 75 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID: 577113	Sample Dates: 10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Co-60	<9.37E+01	0.00E+00	9.37E+01
			Zn-65	<1.24E+02	0.00E+00	1.24E+02
			Nb-95	<7.94E+01	0.00E+00	7.94E+01
			I-131	<6.10E+01	0.00E+00	6.10E+01
			Cs-134	<7.72E+01	0.00E+00	7.72E+01
			Cs-137	<6.48E+01	0.00E+00	6.48E+01
			Be-7	<4.43E+02	0.00E+00	4.43E+02
			K-40	5.25E+03	1.18E+03	6.42E+02
			Ag-110M	<6.23E+01	0.00E+00	6.23E+01
			Sb-122	<8.74E+01	0.00E+00	8.74E+01
			Sb-125	<1.89E+02	0.00E+00	1.89E+02
Sample ID: 577125	Sample Dates: 10/4/2022 - 10/4/2022	BOTMFEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.38E+01	0.00E+00	6.38E+01
			Co-58	<7.15E+01	0.00E+00	7.15E+01
			Fe-59	<1.27E+02	0.00E+00	1.27E+02
			Co-60	<7.58E+01	0.00E+00	7.58E+01
			Zn-65	<1.50E+02	0.00E+00	1.50E+02
			Nb-95	<4.82E+01	0.00E+00	4.82E+01
			I-131	<4.49E+01	0.00E+00	4.49E+01
			Cs-134	<6.84E+01	0.00E+00	6.84E+01
			Cs-137	<5.31E+01	0.00E+00	5.31E+01
			Be-7	<4.61E+02	0.00E+00	4.61E+02
			K-40	4.75E+03	1.13E+03	6.71E+02
			Ag-110M	<5.58E+01	0.00E+00	5.58E+01
			Sb-122	<1.28E+02	0.00E+00	1.28E+02
			Sb-125	<1.58E+02	0.00E+00	1.58E+02
Sample ID: 587730	Sample Dates: 4/3/2023 - 4/3/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.38E+01	0.00E+00	7.38E+01
			Co-58	<6.96E+01	0.00E+00	6.96E+01
			Fe-59	<1.55E+02	0.00E+00	1.55E+02
			Co-60	<7.51E+01	0.00E+00	7.51E+01
			Zn-65	<1.74E+02	0.00E+00	1.74E+02
			Nb-95	<7.38E+01	0.00E+00	7.38E+01
			I-131	<7.89E+01	0.00E+00	7.89E+01
			Cs-134	<8.69E+01	0.00E+00	8.69E+01
			Cs-137	<9.04E+01	0.00E+00	9.04E+01
			Be-7	<4.97E+02	0.00E+00	4.97E+02
			K-40	3.39E+03	1.12E+03	1.12E+03
			Ag-110M	<5.82E+01	0.00E+00	5.82E+01
			Sb-122	<9.20E+01	0.00E+00	9.20E+01
			Sb-125	<1.60E+02	0.00E+00	1.60E+02
Sample ID: 587729	Sample Dates: 4/3/2023 - 4/3/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.98E+01	0.00E+00	4.98E+01
			Co-58	<7.99E+01	0.00E+00	7.99E+01
			Fe-59	<1.10E+02	0.00E+00	1.10E+02
			Co-60	<7.07E+01	0.00E+00	7.07E+01
			Zn-65	<1.51E+02	0.00E+00	1.51E+02
			Nb-95	<6.65E+01	0.00E+00	6.65E+01
			I-131	<8.06E+01	0.00E+00	8.06E+01
			Cs-134	<7.83E+01	0.00E+00	7.83E+01
			Cs-137	<7.26E+01	0.00E+00	7.26E+01
			Be-7	<5.27E+02	0.00E+00	5.27E+02
			K-40	3.42E+03	1.18E+03	1.23E+03
			Ag-110M	<6.11E+01	0.00E+00	6.11E+01
			Sb-122	<1.02E+02	0.00E+00	1.02E+02
			Sb-125	<1.47E+02	0.00E+00	1.47E+02
Sample ID: 587742	Sample Dates: 4/3/2023 - 4/3/2023	BOTMFEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.95E+01	0.00E+00	7.95E+01
			Co-58	<6.12E+01	0.00E+00	6.12E+01
			Fe-59	<1.36E+02	0.00E+00	1.36E+02
			Co-60	<1.67E+01	0.00E+00	1.67E+01
			Zn-65	<1.17E+02	0.00E+00	1.17E+02
			Nb-95	<7.88E+01	0.00E+00	7.88E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 76 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID:	587742	Sample Dates:	4/3/2023 - 4/3/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<6.37E+01	0.00E+00	6.37E+01
					Cs-134	<8.60E+01	0.00E+00	8.60E+01
					Cs-137	<9.45E+01	0.00E+00	9.45E+01
					Be-7	<5.63E+02	0.00E+00	5.63E+02
					K-40	4.70E+03	1.23E+03	9.40E+02
					Ag-110M	<7.22E+01	0.00E+00	7.22E+01
					Sb-122	<1.16E+02	0.00E+00	1.16E+02
					Sb-125	<1.75E+02	0.00E+00	1.75E+02

Sample ID:	597836	Sample Dates:	10/2/2023 - 10/2/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.72E+01	0.00E+00	6.72E+01
					Co-58	<6.09E+01	0.00E+00	6.09E+01
					Fe-59	<1.47E+02	0.00E+00	1.47E+02
					Co-60	<6.78E+01	0.00E+00	6.78E+01
					Zn-65	<1.46E+02	0.00E+00	1.46E+02
					Nb-95	<6.53E+01	0.00E+00	6.53E+01
					I-131	<9.65E+01	0.00E+00	9.65E+01
					Cs-134	<7.23E+01	0.00E+00	7.23E+01
					Cs-137	<7.27E+01	0.00E+00	7.27E+01
					Be-7	<4.95E+02	0.00E+00	4.95E+02
					K-40	5.29E+03	1.16E+03	6.15E+02
					Ag-110M	<5.44E+01	0.00E+00	5.44E+01
					Sb-122	<4.44E+02	0.00E+00	4.44E+02
					Sb-125	<1.53E+02	0.00E+00	1.53E+02

Sample ID:	597837	Sample Dates:	10/2/2023 - 10/4/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.09E+01	0.00E+00	7.09E+01
					Co-58	<5.66E+01	0.00E+00	5.66E+01
					Fe-59	<1.46E+02	0.00E+00	1.46E+02
					Co-60	<7.72E+01	0.00E+00	7.72E+01
					Zn-65	<1.17E+02	0.00E+00	1.17E+02
					Nb-95	<5.73E+01	0.00E+00	5.73E+01
					I-131	<9.76E+01	0.00E+00	9.76E+01
					Cs-134	<6.18E+01	0.00E+00	6.18E+01
					Cs-137	<6.91E+01	0.00E+00	6.91E+01
					Be-7	<4.18E+02	0.00E+00	4.18E+02
					K-40	5.35E+03	1.16E+03	1.48E+02
					Ag-110M	<5.44E+01	0.00E+00	5.44E+01
					Sb-122	<2.12E+02	0.00E+00	2.12E+02
					Sb-125	<1.45E+02	0.00E+00	1.45E+02

Sample ID:	597857	Sample Dates:	10/2/2023 - 10/4/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.51E+01	0.00E+00	8.51E+01
					Co-58	<5.79E+01	0.00E+00	5.79E+01
					Fe-59	<1.75E+02	0.00E+00	1.75E+02
					Co-60	<1.19E+02	0.00E+00	1.19E+02
					Zn-65	<2.03E+02	0.00E+00	2.03E+02
					Nb-95	<8.86E+01	0.00E+00	8.86E+01
					I-131	<1.24E+02	0.00E+00	1.24E+02
					Cs-134	<9.90E+01	0.00E+00	9.90E+01
					Cs-137	<6.47E+01	0.00E+00	6.47E+01
					Be-7	<6.40E+02	0.00E+00	6.40E+02
					K-40	4.79E+03	1.22E+03	6.57E+02
					Ag-110M	<7.19E+01	0.00E+00	7.19E+01
					Sb-122	<4.47E+02	0.00E+00	4.47E+02
					Sb-125	<2.06E+02	0.00E+00	2.06E+02

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID:	564483	Sample Dates:	4/12/2022 - 4/12/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.49E+01	0.00E+00	4.49E+01
					Co-58	<5.54E+01	0.00E+00	5.54E+01
					Fe-59	<1.40E+02	0.00E+00	1.40E+02
					Co-60	<4.41E+01	0.00E+00	4.41E+01
					Zn-65	<9.82E+01	0.00E+00	9.82E+01
					Nb-95	<5.92E+01	0.00E+00	5.92E+01
					I-131	<1.46E+02	0.00E+00	1.46E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 77 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID: 564483	Sample Dates: 4/12/2022 - 4/12/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<6.44E+01	0.00E+00	6.44E+01
			Cs-137	<4.53E+01	0.00E+00	4.53E+01
			Be-7	<5.19E+02	0.00E+00	5.19E+02
			K-40	3.92E+03	9.16E+02	6.39E+02
			Ag-110M	<4.19E+01	0.00E+00	4.19E+01
			Sb-122	<3.48E+03	0.00E+00	3.48E+03
			Sb-125	<1.17E+02	0.00E+00	1.17E+02
Sample ID: 564484	Sample Dates: 4/12/2022 - 4/12/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.91E+01	0.00E+00	3.91E+01
			Co-58	<3.95E+01	0.00E+00	3.95E+01
			Fe-59	<9.17E+01	0.00E+00	9.17E+01
			Co-60	<4.65E+01	0.00E+00	4.65E+01
			Zn-65	<9.76E+01	0.00E+00	9.76E+01
			Nb-95	<6.32E+01	0.00E+00	6.32E+01
			I-131	<1.35E+02	0.00E+00	1.35E+02
			Cs-134	<4.79E+01	0.00E+00	4.79E+01
			Cs-137	<4.32E+01	0.00E+00	4.32E+01
			Be-7	<3.80E+02	0.00E+00	3.80E+02
			K-40	2.69E+03	7.09E+02	5.56E+02
			Ag-110M	<4.00E+01	0.00E+00	4.00E+01
			Sb-122	<2.26E+03	0.00E+00	2.26E+03
			Sb-125	<9.05E+01	0.00E+00	9.05E+01
Sample ID: 564493	Sample Dates: 4/12/2022 - 4/12/2022	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.25E+01	0.00E+00	6.25E+01
			Co-58	<5.47E+01	0.00E+00	5.47E+01
			Fe-59	<1.01E+02	0.00E+00	1.01E+02
			Co-60	<6.41E+01	0.00E+00	6.41E+01
			Zn-65	<1.30E+02	0.00E+00	1.30E+02
			Nb-95	<5.81E+01	0.00E+00	5.81E+01
			I-131	<2.00E+02	0.00E+00	2.00E+02
			Cs-134	<5.15E+01	0.00E+00	5.15E+01
			Cs-137	<6.81E+01	0.00E+00	6.81E+01
			Be-7	<5.76E+02	0.00E+00	5.76E+02
			K-40	4.20E+03	1.04E+03	9.40E+02
			Ag-110M	<5.16E+01	0.00E+00	5.16E+01
			Sb-122	<3.86E+03	0.00E+00	3.86E+03
			Sb-125	<1.31E+02	0.00E+00	1.31E+02
Sample ID: 577114	Sample Dates: 10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.54E+01	0.00E+00	5.54E+01
			Co-58	<5.78E+01	0.00E+00	5.78E+01
			Fe-59	<1.16E+02	0.00E+00	1.16E+02
			Co-60	<6.95E+01	0.00E+00	6.95E+01
			Zn-65	<1.57E+02	0.00E+00	1.57E+02
			Nb-95	<5.03E+01	0.00E+00	5.03E+01
			I-131	<6.02E+01	0.00E+00	6.02E+01
			Cs-134	<6.86E+01	0.00E+00	6.86E+01
			Cs-137	<4.86E+01	0.00E+00	4.86E+01
			Be-7	<3.76E+02	0.00E+00	3.76E+02
			K-40	4.57E+03	1.11E+03	8.51E+02
			Ag-110M	<4.86E+01	0.00E+00	4.86E+01
			Sb-122	<7.03E+01	0.00E+00	7.03E+01
			Sb-125	<1.55E+02	0.00E+00	1.55E+02
Sample ID: 577115	Sample Dates: 10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.29E+01	0.00E+00	5.29E+01
			Co-58	<5.59E+01	0.00E+00	5.59E+01
			Fe-59	<9.94E+01	0.00E+00	9.94E+01
			Co-60	<6.92E+01	0.00E+00	6.92E+01
			Zn-65	<1.31E+02	0.00E+00	1.31E+02
			Nb-95	<6.77E+01	0.00E+00	6.77E+01
			I-131	<6.07E+01	0.00E+00	6.07E+01
			Cs-134	<5.96E+01	0.00E+00	5.96E+01
			Cs-137	<3.98E+01	0.00E+00	3.98E+01
			Be-7	<5.13E+02	0.00E+00	5.13E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 78 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID: 577115	Sample Dates: 10/4/2022 - 10/4/2022	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			K-40	4.52E+03	1.08E+03	6.23E+02
			Ag-110M	<6.19E+01	0.00E+00	6.19E+01
			Sb-122	<8.90E+01	0.00E+00	8.90E+01
			Sb-125	<1.35E+02	0.00E+00	1.35E+02
Sample ID: 577126	Sample Dates: 10/4/2022 - 10/4/2022	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<8.20E+01	0.00E+00	8.20E+01
			Co-58	<7.24E+01	0.00E+00	7.24E+01
			Fe-59	<1.24E+02	0.00E+00	1.24E+02
			Co-60	<6.94E+01	0.00E+00	6.94E+01
			Zn-65	<1.55E+02	0.00E+00	1.55E+02
			Nb-95	<6.51E+01	0.00E+00	6.51E+01
			I-131	<5.64E+01	0.00E+00	5.64E+01
			Cs-134	<7.04E+01	0.00E+00	7.04E+01
			Cs-137	<9.06E+01	0.00E+00	9.06E+01
			Be-7	<4.71E+02	0.00E+00	4.71E+02
			K-40	5.49E+03	1.35E+03	1.27E+03
			Ag-110M	<5.47E+01	0.00E+00	5.47E+01
			Sb-122	<1.01E+02	0.00E+00	1.01E+02
			Sb-125	<1.91E+02	0.00E+00	1.91E+02
Sample ID: 587743	Sample Dates: 4/3/2023 - 4/3/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.46E+01	0.00E+00	5.46E+01
			Co-58	<6.09E+01	0.00E+00	6.09E+01
			Fe-59	<1.35E+02	0.00E+00	1.35E+02
			Co-60	<6.54E+01	0.00E+00	6.54E+01
			Zn-65	<1.35E+02	0.00E+00	1.35E+02
			Nb-95	<7.46E+01	0.00E+00	7.46E+01
			I-131	<6.10E+01	0.00E+00	6.10E+01
			Cs-134	<8.77E+01	0.00E+00	8.77E+01
			Cs-137	<7.43E+01	0.00E+00	7.43E+01
			Be-7	<4.84E+02	0.00E+00	4.84E+02
			K-40	3.75E+03	1.10E+03	1.04E+03
			Ag-110M	<6.38E+01	0.00E+00	6.38E+01
			Sb-122	<1.08E+02	0.00E+00	1.08E+02
			Sb-125	<1.50E+02	0.00E+00	1.50E+02
Sample ID: 587732	Sample Dates: 4/3/2023 - 4/3/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.91E+01	0.00E+00	6.91E+01
			Co-58	<6.53E+01	0.00E+00	6.53E+01
			Fe-59	<9.88E+01	0.00E+00	9.88E+01
			Co-60	<4.32E+01	0.00E+00	4.32E+01
			Zn-65	<1.24E+02	0.00E+00	1.24E+02
			Nb-95	<6.31E+01	0.00E+00	6.31E+01
			I-131	<6.31E+01	0.00E+00	6.31E+01
			Cs-134	<8.14E+01	0.00E+00	8.14E+01
			Cs-137	<5.77E+01	0.00E+00	5.77E+01
			Be-7	<4.88E+02	0.00E+00	4.88E+02
			K-40	4.48E+03	1.21E+03	1.02E+03
			Ag-110M	<6.85E+01	0.00E+00	6.85E+01
			Sb-122	<1.08E+02	0.00E+00	1.08E+02
			Sb-125	<1.95E+02	0.00E+00	1.95E+02
Sample ID: 587731	Sample Dates: 4/3/2023 - 4/3/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<6.25E+01	0.00E+00	6.25E+01
			Co-58	<6.51E+01	0.00E+00	6.51E+01
			Fe-59	<1.15E+02	0.00E+00	1.15E+02
			Co-60	<6.74E+01	0.00E+00	6.74E+01
			Zn-65	<1.39E+02	0.00E+00	1.39E+02
			Nb-95	<5.99E+01	0.00E+00	5.99E+01
			I-131	<8.36E+01	0.00E+00	8.36E+01
			Cs-134	<8.65E+01	0.00E+00	8.65E+01
			Cs-137	<8.04E+01	0.00E+00	8.04E+01
			Be-7	<4.04E+02	0.00E+00	4.04E+02
			K-40	5.02E+03	1.28E+03	1.10E+03
			Ag-110M	<8.47E+01	0.00E+00	8.47E+01
			Sb-122	<1.10E+02	0.00E+00	1.10E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 79 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID:	587731	Sample Dates:	4/3/2023 - 4/3/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Sb-125	<1.55E+02	0.00E+00	1.55E+02
Sample ID:	597838	Sample Dates:	10/4/2023 - 10/4/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.52E+01	0.00E+00	6.52E+01
					Co-58	<6.34E+01	0.00E+00	6.34E+01
					Fe-59	<1.44E+02	0.00E+00	1.44E+02
					Co-60	<7.69E+01	0.00E+00	7.69E+01
					Zn-65	<1.04E+02	0.00E+00	1.04E+02
					Nb-95	<9.23E+01	0.00E+00	9.23E+01
					I-131	<7.82E+01	0.00E+00	7.82E+01
					Cs-134	<6.19E+01	0.00E+00	6.19E+01
					Cs-137	<6.40E+01	0.00E+00	6.40E+01
					Be-7	<5.30E+02	0.00E+00	5.30E+02
					K-40	4.27E+03	1.11E+03	8.61E+02
					Ag-110M	<6.93E+01	0.00E+00	6.93E+01
					Sb-122	<3.11E+02	0.00E+00	3.11E+02
					Sb-125	<2.02E+02	0.00E+00	2.02E+02
Sample ID:	597839	Sample Dates:	10/4/2023 - 10/4/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.75E+01	0.00E+00	4.75E+01
					Co-58	<4.85E+01	0.00E+00	4.85E+01
					Fe-59	<1.40E+02	0.00E+00	1.40E+02
					Co-60	<8.86E+01	0.00E+00	8.86E+01
					Zn-65	<1.50E+02	0.00E+00	1.50E+02
					Nb-95	<8.13E+01	0.00E+00	8.13E+01
					I-131	<9.51E+01	0.00E+00	9.51E+01
					Cs-134	<6.77E+01	0.00E+00	6.77E+01
					Cs-137	<7.55E+01	0.00E+00	7.55E+01
					Be-7	<5.05E+02	0.00E+00	5.05E+02
					K-40	3.45E+03	9.81E+02	8.47E+02
					Ag-110M	<5.99E+01	0.00E+00	5.99E+01
					Sb-122	<2.95E+02	0.00E+00	2.95E+02
					Sb-125	<1.68E+02	0.00E+00	1.68E+02
Sample ID:	597858	Sample Dates:	10/4/2023 - 10/4/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.01E+01	0.00E+00	7.01E+01
					Co-58	<6.82E+01	0.00E+00	6.82E+01
					Fe-59	<1.55E+02	0.00E+00	1.55E+02
					Co-60	<6.35E+01	0.00E+00	6.35E+01
					Zn-65	<1.75E+02	0.00E+00	1.75E+02
					Nb-95	<9.20E+01	0.00E+00	9.20E+01
					I-131	<1.05E+02	0.00E+00	1.05E+02
					Cs-134	<7.86E+01	0.00E+00	7.86E+01
					Cs-137	<9.66E+01	0.00E+00	9.66E+01
					Be-7	<5.65E+02	0.00E+00	5.65E+02
					K-40	4.25E+03	1.19E+03	1.08E+03
					Ag-110M	<6.69E+01	0.00E+00	6.69E+01
					Sb-122	<2.37E+02	0.00E+00	2.37E+02
					Sb-125	<1.56E+02	0.00E+00	1.56E+02

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID:	583278	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.48E+00	0.00E+00	4.48E+00
				Co-58	<3.76E+00	0.00E+00	3.76E+00
				Fe-59	<8.82E+00	0.00E+00	8.82E+00
				Co-60	<4.09E+00	0.00E+00	4.09E+00
				Zn-65	<9.09E+00	0.00E+00	9.09E+00
				Zr-95	<8.75E+00	0.00E+00	8.75E+00
				Nb-95	<5.75E+00	0.00E+00	5.75E+00
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<3.61E+00	0.00E+00	3.61E+00
				Cs-137	<3.62E+00	0.00E+00	3.62E+00
				BaLa-140	<9.97E+00	0.00E+00	9.97E+00
				Be-7	<3.64E+01	0.00E+00	3.64E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 80 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID:	583278	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.94E+01	3.94E+01	4.09E+01
Sample ID:	585472	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.41E+00	0.00E+00	4.41E+00
				Co-58	<3.88E+00	0.00E+00	3.88E+00
				Fe-59	<7.34E+00	0.00E+00	7.34E+00
				Co-60	<2.92E+00	0.00E+00	2.92E+00
				Zn-65	<9.14E+00	0.00E+00	9.14E+00
				Zr-95	<6.46E+00	0.00E+00	6.46E+00
				Nb-95	<4.57E+00	0.00E+00	4.57E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<3.90E+00	0.00E+00	3.90E+00
				Cs-137	<4.73E+00	0.00E+00	4.73E+00
				BaLa-140	<7.71E+00	0.00E+00	7.71E+00
				Be-7	<3.81E+01	0.00E+00	3.81E+01
				K-40	<7.94E+01	0.00E+00	7.94E+01
Sample ID:	586791	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.20E+00	0.00E+00	5.20E+00
				Co-58	<4.61E+00	0.00E+00	4.61E+00
				Fe-59	<8.60E+00	0.00E+00	8.60E+00
				Co-60	<5.06E+00	0.00E+00	5.06E+00
				Zn-65	<9.82E+00	0.00E+00	9.82E+00
				Zr-95	<8.55E+00	0.00E+00	8.55E+00
				Nb-95	<7.25E+00	0.00E+00	7.25E+00
				I-131	<1.35E+01	0.00E+00	1.35E+01
				Cs-134	<4.18E+00	0.00E+00	4.18E+00
				Cs-137	<4.91E+00	0.00E+00	4.91E+00
				BaLa-140	<1.25E+01	0.00E+00	1.25E+01
				Be-7	<3.80E+01	0.00E+00	3.80E+01
				K-40	<6.51E+01	0.00E+00	6.51E+01
Sample ID:	585161	Sample Dates:	12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	1.10E+03	1.45E+02	1.92E+02
Sample ID:	587931	Sample Dates:	3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.82E+00	0.00E+00	3.82E+00
				Co-58	<3.66E+00	0.00E+00	3.66E+00
				Fe-59	<7.04E+00	0.00E+00	7.04E+00
				Co-60	<3.20E+00	0.00E+00	3.20E+00
				Zn-65	<6.63E+00	0.00E+00	6.63E+00
				Zr-95	<6.49E+00	0.00E+00	6.49E+00
				Nb-95	<5.14E+00	0.00E+00	5.14E+00
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<3.80E+00	0.00E+00	3.80E+00
				Cs-137	<2.62E+00	0.00E+00	2.62E+00
				BaLa-140	<1.00E+01	0.00E+00	1.00E+01
				Be-7	<3.14E+01	0.00E+00	3.14E+01
				K-40	6.37E+01	2.90E+01	3.19E+01
Sample ID:	589944	Sample Dates:	4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.20E+00	0.00E+00	3.20E+00
				Co-58	<5.33E+00	0.00E+00	5.33E+00
				Fe-59	<1.05E+01	0.00E+00	1.05E+01
				Co-60	<4.29E+00	0.00E+00	4.29E+00
				Zn-65	<8.60E+00	0.00E+00	8.60E+00
				Zr-95	<6.83E+00	0.00E+00	6.83E+00
				Nb-95	<6.16E+00	0.00E+00	6.16E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<5.57E+00	0.00E+00	5.57E+00
				Cs-137	<4.31E+00	0.00E+00	4.31E+00
				BaLa-140	<6.95E+00	0.00E+00	6.95E+00
				Be-7	<3.76E+01	0.00E+00	3.76E+01
				K-40	6.61E+01	3.76E+01	4.45E+01
Sample ID:	590806	Sample Dates:	5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.05E+00	0.00E+00	4.05E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 81 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID: 590806	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<7.63E+00	0.00E+00	7.63E+00
		Co-60	<3.03E+00	0.00E+00	3.03E+00
		Zn-65	<5.56E+00	0.00E+00	5.56E+00
		Zr-95	<6.71E+00	0.00E+00	6.71E+00
		Nb-95	<5.21E+00	0.00E+00	5.21E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.71E+00	0.00E+00	4.71E+00
		Cs-137	<3.10E+00	0.00E+00	3.10E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.57E+01	0.00E+00	3.57E+01
		K-40	3.93E+01	3.39E+01	5.01E+01
Sample ID: 589855	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	8.12E+02	1.48E+02	2.11E+02
Sample ID: 592014	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.19E+00	0.00E+00	3.19E+00
		Co-58	<3.36E+00	0.00E+00	3.36E+00
		Fe-59	<8.36E+00	0.00E+00	8.36E+00
		Co-60	<2.77E+00	0.00E+00	2.77E+00
		Zn-65	<7.87E+00	0.00E+00	7.87E+00
		Zr-95	<7.06E+00	0.00E+00	7.06E+00
		Nb-95	<4.28E+00	0.00E+00	4.28E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.71E+00	0.00E+00	3.71E+00
		Cs-137	<3.75E+00	0.00E+00	3.75E+00
		BaLa-140	<8.95E+00	0.00E+00	8.95E+00
		Be-7	<3.43E+01	0.00E+00	3.43E+01
Sample ID: 593350	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.44E+00	0.00E+00	3.44E+00
		Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<8.97E+00	0.00E+00	8.97E+00
		Co-60	<9.48E-01	0.00E+00	9.48E-01
		Zn-65	<6.94E+00	0.00E+00	6.94E+00
		Zr-95	<8.95E+00	0.00E+00	8.95E+00
		Nb-95	<4.55E+00	0.00E+00	4.55E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<4.38E+00	0.00E+00	4.38E+00
		Cs-137	<4.05E+00	0.00E+00	4.05E+00
		BaLa-140	<1.21E+01	0.00E+00	1.21E+01
		Be-7	<3.08E+01	0.00E+00	3.08E+01
Sample ID: 594903	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.74E+00	0.00E+00	2.74E+00
		Co-58	<3.04E+00	0.00E+00	3.04E+00
		Fe-59	<8.25E+00	0.00E+00	8.25E+00
		Co-60	<3.68E+00	0.00E+00	3.68E+00
		Zn-65	<5.12E+00	0.00E+00	5.12E+00
		Zr-95	<7.04E+00	0.00E+00	7.04E+00
		Nb-95	<3.37E+00	0.00E+00	3.37E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<3.74E+00	0.00E+00	3.74E+00
		Cs-137	<3.58E+00	0.00E+00	3.58E+00
		BaLa-140	<7.54E+00	0.00E+00	7.54E+00
		Be-7	<2.15E+01	0.00E+00	2.15E+01
Sample ID: 593702	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	1.01E+03	1.33E+02	1.75E+02
Sample ID: 597216	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.53E+00	0.00E+00	3.53E+00
		Co-58	<4.62E+00	0.00E+00	4.62E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 82 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID: 597216	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Fe-59	<5.67E+00	0.00E+00	5.67E+00
		Co-60	<4.77E+00	0.00E+00	4.77E+00
		Zn-65	<7.51E+00	0.00E+00	7.51E+00
		Zr-95	<7.69E+00	0.00E+00	7.69E+00
		Nb-95	<5.40E+00	0.00E+00	5.40E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.58E+00	0.00E+00	3.58E+00
		Cs-137	<3.45E+00	0.00E+00	3.45E+00
		BaLa-140	<7.55E+00	0.00E+00	7.55E+00
		Be-7	<3.41E+01	0.00E+00	3.41E+01
		K-40	6.12E+01	3.38E+01	4.25E+01

Sample ID: 598976	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.58E+00	0.00E+00	3.58E+00
		Co-58	<3.07E+00	0.00E+00	3.07E+00
		Fe-59	<8.19E+00	0.00E+00	8.19E+00
		Co-60	<3.98E+00	0.00E+00	3.98E+00
		Zn-65	<8.83E+00	0.00E+00	8.83E+00
		Zr-95	<6.72E+00	0.00E+00	6.72E+00
		Nb-95	<5.57E+00	0.00E+00	5.57E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.66E+00	0.00E+00	3.66E+00
		Cs-137	<3.61E+00	0.00E+00	3.61E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.53E+01	0.00E+00	3.53E+01

Sample ID: 601214	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.66E+00	0.00E+00	4.66E+00
		Co-58	<3.97E+00	0.00E+00	3.97E+00
		Fe-59	<9.46E+00	0.00E+00	9.46E+00
		Co-60	<3.95E+00	0.00E+00	3.95E+00
		Zn-65	<9.67E+00	0.00E+00	9.67E+00
		Zr-95	<7.04E+00	0.00E+00	7.04E+00
		Nb-95	<5.99E+00	0.00E+00	5.99E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<4.16E+00	0.00E+00	4.16E+00
		Cs-137	<5.13E+00	0.00E+00	5.13E+00
		BaLa-140	<1.26E+01	0.00E+00	1.26E+01
		Be-7	<2.81E+01	0.00E+00	2.81E+01

Sample ID: 599988	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	1.12E+03	1.41E+02	1.83E+02

Sample ID: 602640	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.69E+00	0.00E+00	2.69E+00
		Co-58	<3.85E+00	0.00E+00	3.85E+00
		Fe-59	<6.85E+00	0.00E+00	6.85E+00
		Co-60	<2.75E+00	0.00E+00	2.75E+00
		Zn-65	<5.64E+00	0.00E+00	5.64E+00
		Zr-95	<7.46E+00	0.00E+00	7.46E+00
		Nb-95	<4.50E+00	0.00E+00	4.50E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.44E+00	0.00E+00	3.44E+00
		Cs-137	<3.23E+00	0.00E+00	3.23E+00
		BaLa-140	<5.53E+00	0.00E+00	5.53E+00
		Be-7	<2.77E+01	0.00E+00	2.77E+01

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 583279	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.69E+00	0.00E+00	4.69E+00
		Co-58	<4.21E+00	0.00E+00	4.21E+00
		Fe-59	<8.86E+00	0.00E+00	8.86E+00
		Co-60	<5.40E+00	0.00E+00	5.40E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 83 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 583279	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zn-65	<8.38E+00	0.00E+00	8.38E+00
		Zr-95	<8.18E+00	0.00E+00	8.18E+00
		Nb-95	<5.54E+00	0.00E+00	5.54E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.21E+00	0.00E+00	3.21E+00
		Cs-137	<4.98E+00	0.00E+00	4.98E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	4.92E+01	3.72E+01	5.34E+01
Sample ID: 585473	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.58E+00	0.00E+00	3.58E+00
		Co-58	<3.27E+00	0.00E+00	3.27E+00
		Fe-59	<8.46E+00	0.00E+00	8.46E+00
		Co-60	<3.14E+00	0.00E+00	3.14E+00
		Zn-65	<6.96E+00	0.00E+00	6.96E+00
		Zr-95	<6.32E+00	0.00E+00	6.32E+00
		Nb-95	<5.04E+00	0.00E+00	5.04E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.58E+00	0.00E+00	3.58E+00
		Cs-137	<3.38E+00	0.00E+00	3.38E+00
		BaLa-140	<6.89E+00	0.00E+00	6.89E+00
		Be-7	<3.10E+01	0.00E+00	3.10E+01
		K-40	<6.71E+01	0.00E+00	6.71E+01
Sample ID: 586792	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.07E+00	0.00E+00	4.07E+00
		Co-58	<4.89E+00	0.00E+00	4.89E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<4.29E+00	0.00E+00	4.29E+00
		Zn-65	<7.22E+00	0.00E+00	7.22E+00
		Zr-95	<7.17E+00	0.00E+00	7.17E+00
		Nb-95	<4.24E+00	0.00E+00	4.24E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<4.30E+00	0.00E+00	4.30E+00
		Cs-137	<3.95E+00	0.00E+00	3.95E+00
		BaLa-140	<9.36E+00	0.00E+00	9.36E+00
		Be-7	<3.71E+01	0.00E+00	3.71E+01
		K-40	<8.42E+01	0.00E+00	8.42E+01
Sample ID: 585162	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.72E+02	1.24E+02	1.93E+02
Sample ID: 587932	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.32E+00	0.00E+00	2.32E+00
		Co-58	<2.88E+00	0.00E+00	2.88E+00
		Fe-59	<7.51E+00	0.00E+00	7.51E+00
		Co-60	<2.90E+00	0.00E+00	2.90E+00
		Zn-65	<7.35E+00	0.00E+00	7.35E+00
		Zr-95	<5.84E+00	0.00E+00	5.84E+00
		Nb-95	<3.38E+00	0.00E+00	3.38E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.74E+00	0.00E+00	2.74E+00
		Cs-137	<3.22E+00	0.00E+00	3.22E+00
		BaLa-140	<7.76E+00	0.00E+00	7.76E+00
		Be-7	<3.45E+01	0.00E+00	3.45E+01
		K-40	6.36E+01	3.30E+01	4.28E+01
Sample ID: 589945	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<3.96E+00	0.00E+00	3.96E+00
		Fe-59	<4.82E+00	0.00E+00	4.82E+00
		Co-60	<3.75E+00	0.00E+00	3.75E+00
		Zn-65	<8.51E+00	0.00E+00	8.51E+00
		Zr-95	<6.75E+00	0.00E+00	6.75E+00
		Nb-95	<4.25E+00	0.00E+00	4.25E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 84 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 589945	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.64E+00	0.00E+00	2.64E+00
		Cs-137	<3.20E+00	0.00E+00	3.20E+00
		BaLa-140	<7.66E+00	0.00E+00	7.66E+00
		Be-7	<3.43E+01	0.00E+00	3.43E+01
		K-40	7.35E+01	3.42E+01	3.85E+01
Sample ID: 590807	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<4.50E+00	0.00E+00	4.50E+00
		Fe-59	<8.60E+00	0.00E+00	8.60E+00
		Co-60	<3.36E+00	0.00E+00	3.36E+00
		Zn-65	<6.18E+00	0.00E+00	6.18E+00
		Zr-95	<6.87E+00	0.00E+00	6.87E+00
		Nb-95	<4.06E+00	0.00E+00	4.06E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.12E+00	0.00E+00	4.12E+00
		Cs-137	<2.98E+00	0.00E+00	2.98E+00
		BaLa-140	<9.93E+00	0.00E+00	9.93E+00
		Be-7	<2.90E+01	0.00E+00	2.90E+01
		K-40	<6.02E+01	0.00E+00	6.02E+01
Sample ID: 589856	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	4.30E+02	1.37E+02	2.12E+02
Sample ID: 592015	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.92E+00	0.00E+00	2.92E+00
		Co-58	<4.33E+00	0.00E+00	4.33E+00
		Fe-59	<6.30E+00	0.00E+00	6.30E+00
		Co-60	<4.08E+00	0.00E+00	4.08E+00
		Zn-65	<7.52E+00	0.00E+00	7.52E+00
		Zr-95	<7.68E+00	0.00E+00	7.68E+00
		Nb-95	<4.42E+00	0.00E+00	4.42E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<5.11E+00	0.00E+00	5.11E+00
		Cs-137	<3.23E+00	0.00E+00	3.23E+00
		BaLa-140	<8.59E+00	0.00E+00	8.59E+00
		Be-7	<3.60E+01	0.00E+00	3.60E+01
		K-40	6.64E+01	3.34E+01	4.13E+01
Sample ID: 593351	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.32E+00	0.00E+00	3.32E+00
		Co-58	<3.83E+00	0.00E+00	3.83E+00
		Fe-59	<7.35E+00	0.00E+00	7.35E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<8.17E+00	0.00E+00	8.17E+00
		Zr-95	<6.18E+00	0.00E+00	6.18E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<3.85E+00	0.00E+00	3.85E+00
		Cs-137	<3.51E+00	0.00E+00	3.51E+00
		BaLa-140	<8.53E+00	0.00E+00	8.53E+00
		Be-7	<3.39E+01	0.00E+00	3.39E+01
		K-40	1.11E+02	4.25E+01	4.61E+01
Sample ID: 594904	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.19E+00	0.00E+00	3.19E+00
		Co-58	<3.83E+00	0.00E+00	3.83E+00
		Fe-59	<6.73E+00	0.00E+00	6.73E+00
		Co-60	<3.41E+00	0.00E+00	3.41E+00
		Zn-65	<7.11E+00	0.00E+00	7.11E+00
		Zr-95	<6.08E+00	0.00E+00	6.08E+00
		Nb-95	<5.05E+00	0.00E+00	5.05E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<3.09E+00	0.00E+00	3.09E+00
		Cs-137	<2.90E+00	0.00E+00	2.90E+00
		BaLa-140	<7.34E+00	0.00E+00	7.34E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 85 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID:	594904	Sample Dates:	8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.05E+01	3.32E+01	3.49E+01
Sample ID:	593703	Sample Dates:	7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	4.25E+02	1.15E+02	1.75E+02
Sample ID:	597217	Sample Dates:	9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.57E+00	0.00E+00	3.57E+00
				Co-58	<4.42E+00	0.00E+00	4.42E+00
				Fe-59	<7.93E+00	0.00E+00	7.93E+00
				Co-60	<5.12E+00	0.00E+00	5.12E+00
				Zn-65	<7.51E+00	0.00E+00	7.51E+00
				Zr-95	<9.29E+00	0.00E+00	9.29E+00
				Nb-95	<6.59E+00	0.00E+00	6.59E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<4.69E+00	0.00E+00	4.69E+00
				Cs-137	<3.47E+00	0.00E+00	3.47E+00
				BaLa-140	<9.55E+00	0.00E+00	9.55E+00
				Be-7	<3.79E+01	0.00E+00	3.79E+01
				K-40	<7.59E+01	0.00E+00	7.59E+01
Sample ID:	598977	Sample Dates:	10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.49E+00	0.00E+00	3.49E+00
				Co-58	<4.51E+00	0.00E+00	4.51E+00
				Fe-59	<7.21E+00	0.00E+00	7.21E+00
				Co-60	<3.98E+00	0.00E+00	3.98E+00
				Zn-65	<9.00E+00	0.00E+00	9.00E+00
				Zr-95	<7.73E+00	0.00E+00	7.73E+00
				Nb-95	<5.51E+00	0.00E+00	5.51E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<3.87E+00	0.00E+00	3.87E+00
				Cs-137	<3.41E+00	0.00E+00	3.41E+00
				BaLa-140	<9.92E+00	0.00E+00	9.92E+00
				Be-7	<3.25E+01	0.00E+00	3.25E+01
				K-40	4.73E+01	4.26E+01	6.63E+01
Sample ID:	601215	Sample Dates:	10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.49E+00	0.00E+00	2.49E+00
				Co-58	<3.66E+00	0.00E+00	3.66E+00
				Fe-59	<7.37E+00	0.00E+00	7.37E+00
				Co-60	<3.01E+00	0.00E+00	3.01E+00
				Zn-65	<6.60E+00	0.00E+00	6.60E+00
				Zr-95	<6.18E+00	0.00E+00	6.18E+00
				Nb-95	<4.12E+00	0.00E+00	4.12E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<3.80E+00	0.00E+00	3.80E+00
				Cs-137	<2.69E+00	0.00E+00	2.69E+00
				BaLa-140	<5.78E+00	0.00E+00	5.78E+00
				Be-7	<3.13E+01	0.00E+00	3.13E+01
				K-40	6.23E+01	3.72E+01	5.44E+01
Sample ID:	599989	Sample Dates:	10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	6.71E+02	1.27E+02	1.82E+02
Sample ID:	602641	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.48E+00	0.00E+00	3.48E+00
				Co-58	<3.43E+00	0.00E+00	3.43E+00
				Fe-59	<6.93E+00	0.00E+00	6.93E+00
				Co-60	<3.93E+00	0.00E+00	3.93E+00
				Zn-65	<6.43E+00	0.00E+00	6.43E+00
				Zr-95	<6.62E+00	0.00E+00	6.62E+00
				Nb-95	<3.86E+00	0.00E+00	3.86E+00
				I-131	<1.28E+01	0.00E+00	1.28E+01
				Cs-134	<3.56E+00	0.00E+00	3.56E+00
				Cs-137	<3.48E+00	0.00E+00	3.48E+00
				BaLa-140	<8.44E+00	0.00E+00	8.44E+00
				Be-7	<3.08E+01	0.00E+00	3.08E+01
				K-40	5.12E+01	3.23E+01	4.43E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 86 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID: 583280	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.93E+00	0.00E+00	2.93E+00
		Co-58	<3.99E+00	0.00E+00	3.99E+00
		Fe-59	<6.22E+00	0.00E+00	6.22E+00
		Co-60	<3.21E+00	0.00E+00	3.21E+00
		Zn-65	<4.77E+00	0.00E+00	4.77E+00
		Zr-95	<6.30E+00	0.00E+00	6.30E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<3.89E+00	0.00E+00	3.89E+00
		Cs-137	<3.21E+00	0.00E+00	3.21E+00
		BaLa-140	<6.71E+00	0.00E+00	6.71E+00
		Be-7	<3.05E+01	0.00E+00	3.05E+01
		K-40	7.16E+01	3.67E+01	5.13E+01
Sample ID: 585474	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.95E+00	0.00E+00	3.95E+00
		Co-58	<4.23E+00	0.00E+00	4.23E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<3.04E+00	0.00E+00	3.04E+00
		Zn-65	<6.11E+00	0.00E+00	6.11E+00
		Zr-95	<6.77E+00	0.00E+00	6.77E+00
		Nb-95	<4.71E+00	0.00E+00	4.71E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.69E+00	0.00E+00	3.69E+00
		Cs-137	<3.73E+00	0.00E+00	3.73E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<3.24E+01	0.00E+00	3.24E+01
		K-40	9.24E+01	4.24E+01	5.38E+01
Sample ID: 586793	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.31E+00	0.00E+00	4.31E+00
		Co-58	<3.66E+00	0.00E+00	3.66E+00
		Fe-59	<8.16E+00	0.00E+00	8.16E+00
		Co-60	<3.57E+00	0.00E+00	3.57E+00
		Zn-65	<5.88E+00	0.00E+00	5.88E+00
		Zr-95	<7.20E+00	0.00E+00	7.20E+00
		Nb-95	<5.78E+00	0.00E+00	5.78E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.95E+00	0.00E+00	2.95E+00
		Cs-137	<4.04E+00	0.00E+00	4.04E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.32E+01	0.00E+00	3.32E+01
		K-40	<7.38E+01	0.00E+00	7.38E+01
Sample ID: 585163	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.23E+01	0.00E+00	1.93E+02
Sample ID: 587933	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.29E+00	0.00E+00	3.29E+00
		Co-58	<4.16E+00	0.00E+00	4.16E+00
		Fe-59	<7.88E+00	0.00E+00	7.88E+00
		Co-60	<3.63E+00	0.00E+00	3.63E+00
		Zn-65	<6.66E+00	0.00E+00	6.66E+00
		Zr-95	<8.90E+00	0.00E+00	8.90E+00
		Nb-95	<4.89E+00	0.00E+00	4.89E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.85E+00	0.00E+00	4.85E+00
		Cs-137	<4.25E+00	0.00E+00	4.25E+00
		BaLa-140	<8.24E+00	0.00E+00	8.24E+00
		Be-7	<2.75E+01	0.00E+00	2.75E+01
		K-40	<5.30E+01	0.00E+00	5.30E+01
Sample ID: 589946	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.46E+00	0.00E+00	4.46E+00
		Co-58	<4.93E+00	0.00E+00	4.93E+00
		Fe-59	<9.01E+00	0.00E+00	9.01E+00
		Co-60	<3.71E+00	0.00E+00	3.71E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 87 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID: 589946	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zn-65	<7.98E+00	0.00E+00	7.98E+00
		Zr-95	<8.74E+00	0.00E+00	8.74E+00
		Nb-95	<5.84E+00	0.00E+00	5.84E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<3.73E+00	0.00E+00	3.73E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Be-7	<3.55E+01	0.00E+00	3.55E+01
		K-40	8.28E+01	3.58E+01	3.30E+01
Sample ID: 590808	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.51E+00	0.00E+00	4.51E+00
		Co-58	<4.86E+00	0.00E+00	4.86E+00
		Fe-59	<9.15E+00	0.00E+00	9.15E+00
		Co-60	<2.51E+00	0.00E+00	2.51E+00
		Zn-65	<8.64E+00	0.00E+00	8.64E+00
		Zr-95	<7.13E+00	0.00E+00	7.13E+00
		Nb-95	<5.12E+00	0.00E+00	5.12E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.72E+00	0.00E+00	3.72E+00
		Cs-137	<4.28E+00	0.00E+00	4.28E+00
		BaLa-140	<7.66E+00	0.00E+00	7.66E+00
		Be-7	<3.51E+01	0.00E+00	3.51E+01
		K-40	<5.39E+01	0.00E+00	5.39E+01
Sample ID: 589857	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.18E+01	0.00E+00	2.11E+02
Sample ID: 592016	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.93E+00	0.00E+00	3.93E+00
		Co-58	<4.20E+00	0.00E+00	4.20E+00
		Fe-59	<7.22E+00	0.00E+00	7.22E+00
		Co-60	<3.16E+00	0.00E+00	3.16E+00
		Zn-65	<5.19E+00	0.00E+00	5.19E+00
		Zr-95	<6.07E+00	0.00E+00	6.07E+00
		Nb-95	<5.66E+00	0.00E+00	5.66E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.23E+00	0.00E+00	4.23E+00
		Cs-137	<3.46E+00	0.00E+00	3.46E+00
		BaLa-140	<7.55E+00	0.00E+00	7.55E+00
		Be-7	<3.22E+01	0.00E+00	3.22E+01
		K-40	6.75E+01	3.36E+01	3.98E+01
Sample ID: 593352	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.88E+00	0.00E+00	2.88E+00
		Co-58	<3.03E+00	0.00E+00	3.03E+00
		Fe-59	<5.69E+00	0.00E+00	5.69E+00
		Co-60	<3.02E+00	0.00E+00	3.02E+00
		Zn-65	<5.12E+00	0.00E+00	5.12E+00
		Zr-95	<6.25E+00	0.00E+00	6.25E+00
		Nb-95	<3.78E+00	0.00E+00	3.78E+00
		I-131	<9.56E+00	0.00E+00	9.56E+00
		Cs-134	<3.19E+00	0.00E+00	3.19E+00
		Cs-137	<2.97E+00	0.00E+00	2.97E+00
		BaLa-140	<6.25E+00	0.00E+00	6.25E+00
		Be-7	<2.79E+01	0.00E+00	2.79E+01
		K-40	9.52E+01	3.01E+01	2.90E+01
Sample ID: 594905	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.15E+00	0.00E+00	3.15E+00
		Co-58	<3.93E+00	0.00E+00	3.93E+00
		Fe-59	<7.04E+00	0.00E+00	7.04E+00
		Co-60	<2.59E+00	0.00E+00	2.59E+00
		Zn-65	<6.60E+00	0.00E+00	6.60E+00
		Zr-95	<5.26E+00	0.00E+00	5.26E+00
		Nb-95	<3.32E+00	0.00E+00	3.32E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 88 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID: 594905	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<3.30E+00	0.00E+00	3.30E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
		Be-7	<2.90E+01	0.00E+00	2.90E+01
		K-40	6.69E+01	3.58E+01	4.97E+01
Sample ID: 593704	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.06E+02	0.00E+00	1.75E+02
Sample ID: 597218	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.65E+00	0.00E+00	2.65E+00
		Co-58	<2.91E+00	0.00E+00	2.91E+00
		Fe-59	<8.36E+00	0.00E+00	8.36E+00
		Co-60	<2.43E+00	0.00E+00	2.43E+00
		Zn-65	<1.01E+01	0.00E+00	1.01E+01
		Zr-95	<6.28E+00	0.00E+00	6.28E+00
		Nb-95	<6.03E+00	0.00E+00	6.03E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<4.76E+00	0.00E+00	4.76E+00
		Cs-137	<4.52E+00	0.00E+00	4.52E+00
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		Be-7	<3.74E+01	0.00E+00	3.74E+01
		K-40	7.97E+01	4.85E+01	6.74E+01
Sample ID: 598978	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.68E+00	0.00E+00	3.68E+00
		Co-58	<3.24E+00	0.00E+00	3.24E+00
		Fe-59	<7.63E+00	0.00E+00	7.63E+00
		Co-60	<3.12E+00	0.00E+00	3.12E+00
		Zn-65	<5.75E+00	0.00E+00	5.75E+00
		Zr-95	<7.71E+00	0.00E+00	7.71E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.09E+00	0.00E+00	4.09E+00
		Cs-137	<4.27E+00	0.00E+00	4.27E+00
		BaLa-140	<8.30E+00	0.00E+00	8.30E+00
		Be-7	<3.73E+01	0.00E+00	3.73E+01
		K-40	5.28E+01	3.20E+01	4.25E+01
Sample ID: 601216	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.13E+00	0.00E+00	3.13E+00
		Co-58	<3.68E+00	0.00E+00	3.68E+00
		Fe-59	<8.08E+00	0.00E+00	8.08E+00
		Co-60	<3.06E+00	0.00E+00	3.06E+00
		Zn-65	<5.61E+00	0.00E+00	5.61E+00
		Zr-95	<6.01E+00	0.00E+00	6.01E+00
		Nb-95	<4.75E+00	0.00E+00	4.75E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.14E+00	0.00E+00	3.14E+00
		BaLa-140	<7.50E+00	0.00E+00	7.50E+00
		Be-7	<3.27E+01	0.00E+00	3.27E+01
		K-40	9.35E+01	4.11E+01	5.42E+01
Sample ID: 599990	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.97E+01	0.00E+00	1.82E+02
Sample ID: 602642	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.05E+00	0.00E+00	3.05E+00
		Co-58	<2.42E+00	0.00E+00	2.42E+00
		Fe-59	<6.69E+00	0.00E+00	6.69E+00
		Co-60	<3.23E+00	0.00E+00	3.23E+00
		Zn-65	<4.31E+00	0.00E+00	4.31E+00
		Zr-95	<5.10E+00	0.00E+00	5.10E+00
		Nb-95	<3.48E+00	0.00E+00	3.48E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.13E+00	0.00E+00	3.13E+00

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Duke Energy Annual Report - Appendix E

Appendix E - Page 89 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID:	602642	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<2.51E+00	0.00E+00	2.51E+00
				BaLa-140	<6.28E+00	0.00E+00	6.28E+00
				Be-7	<2.68E+01	0.00E+00	2.68E+01
				K-40	7.34E+01	3.31E+01	4.58E+01

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 143 [INDICATOR - NW @ 0.27 miles]

TLD RING TLD_INNER

Sample ID:	586401	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	18.60
Sample ID:	590996	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	15.68
Sample ID:	595388	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	15.44
Sample ID:	602021	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	17.29

Sample Point 144 [INDICATOR - NNE @ 0.46 miles]

TLD RING TLD_INNER

Sample ID:	586402	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	16.70
Sample ID:	590997	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	13.23
Sample ID:	595389	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	14.73
Sample ID:	602022	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	14.48

Sample Point 145 [INDICATOR - NE @ 0.47 miles]

TLD RING TLD_INNER

Sample ID:	586403	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	17.18
Sample ID:	590998	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	13.68
Sample ID:	595390	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	13.88
Sample ID:	602023	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	14.43

Sample Point 146 [INDICATOR - ENE @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	586404	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	15.15
Sample ID:	590999	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.05
Sample ID:	595391	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	13.71
Sample ID:	602024	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	15.54

Sample Point 147 [INDICATOR - E @ 0.44 miles]

TLD RING TLD_INNER

Sample ID:	586405	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	14.26
Sample ID:	591000	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.57
Sample ID:	595392	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	13.58

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Duke Energy Annual Report - Appendix E

Appendix E - Page 90 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 147 [INDICATOR - E @ 0.44 miles]

TLD RING TLD_INNER

Sample ID:	602025	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	14.57

Sample Point 148 [INDICATOR - ESE @ 0.46 miles]

TLD RING TLD_INNER

Sample ID:	586406	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	14.34
Sample ID:	591001	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	11.59
Sample ID:	595393	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	12.72
Sample ID:	602026	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	12.54

Sample Point 149 [INDICATOR - SE @ 0.5 miles]

TLD RING TLD_INNER

Sample ID:	586407	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	11.47
Sample ID:	591002	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	12.66
Sample ID:	595394	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	11.59
Sample ID:	602027	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	12.42

Sample Point 151 [INDICATOR - S @ 0.37 miles]

TLD RING TLD_INNER

Sample ID:	586408	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	16.67
Sample ID:	591003	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.89
Sample ID:	595395	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	14.29
Sample ID:	602028	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	15.65

Sample Point 152 [INDICATOR - SSW @ 0.44 miles]

TLD RING TLD_INNER

Sample ID:	586409	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	15.04
Sample ID:	591004	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	13.08
Sample ID:	595396	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	13.31
Sample ID:	602029	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	14.80

Sample Point 153 [INDICATOR - SW @ 0.47 miles]

TLD RING TLD_INNER

Sample ID:	586410	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	18.86
Sample ID:	591005	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	19.04
Sample ID:	595397	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	17.85
Sample ID:	602030	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	19.19

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Duke Energy Annual Report - Appendix E

13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Appendix E - Page 91 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 154 [INDICATOR - W @ 0.45 miles]

TLD RING TLD_INNER

Sample ID:	586411	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 18.91
Sample ID:	591006	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 16.48
Sample ID:	595398	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 15.54
Sample ID:	602031	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 17.92

Sample Point 156 [INDICATOR - WNW @ 0.44 miles]

TLD RING TLD_INNER

Sample ID:	586412	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 19.37
Sample ID:	591007	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 15.90
Sample ID:	595399	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 16.55
Sample ID:	602032	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 17.77

Sample Point 157 [INDICATOR - N @ 4.69 miles]

TLD RING TLD_OUTER

Sample ID:	586413	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 16.92
Sample ID:	591008	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 14.83
Sample ID:	595400	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 14.60
Sample ID:	602033	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 17.50

Sample Point 158 [INDICATOR - NNE @ 4.33 miles]

TLD RING TLD_OUTER

Sample ID:	586414	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 15.16
Sample ID:	591009	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 14.72
Sample ID:	595401	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 14.57
Sample ID:	602034	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 16.73

Sample Point 159 [INDICATOR - NE @ 4.77 miles]

TLD RING TLD_OUTER

Sample ID:	586415	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 16.79
Sample ID:	591010	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 16.39
Sample ID:	595402	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 15.55
Sample ID:	602035	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 17.19

Sample Point 160 [INDICATOR - ENE @ 4.89 miles]

TLD RING TLD_OUTER

Sample ID:	586416	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 15.46
Sample ID:	591011	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 13.23

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 92 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 160 [INDICATOR - ENE @ 4.89 miles]

TLD RING TLD_OUTER

Sample ID:	595403	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	13.16
Sample ID:	602036	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	15.10

Sample Point 161 [INDICATOR - E @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	586417	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	17.48
Sample ID:	591012	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	15.59
Sample ID:	595404	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	14.51
Sample ID:	602037	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	17.09

Sample Point 162 [INDICATOR - ESE @ 4.53 miles]

TLD RING TLD_OUTER

Sample ID:	586418	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	13.00
Sample ID:	591013	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	11.12
Sample ID:	595405	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	10.72
Sample ID:	602038	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	11.03

Sample Point 163 [INDICATOR - SE @ 4.94 miles]

TLD RING TLD_OUTER

Sample ID:	586419	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	12.60
Sample ID:	591014	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	11.15
Sample ID:	595406	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	10.71
Sample ID:	602039	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	11.99

Sample Point 164 [INDICATOR - SSE @ 4.64 miles]

TLD RING TLD_OUTER

Sample ID:	586420	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	12.15
Sample ID:	591015	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	10.94
Sample ID:	595407	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	9.37
Sample ID:	602040	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	11.85

Sample Point 165 [INDICATOR - S @ 4.57 miles]

TLD RING TLD_OUTER

Sample ID:	586421	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	20.06
Sample ID:	591016	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	16.89
Sample ID:	595408	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	16.71
Sample ID:	602041	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	22.45

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 93 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 166 [INDICATOR - SSW @ 4.44 miles]

TLD RING TLD_OUTER

Sample ID:	586422	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 18.04
Sample ID:	591017	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 17.18
Sample ID:	595409	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 17.08
Sample ID:	602042	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 19.55

Sample Point 167 [INDICATOR - SW @ 4.87 miles]

TLD RING TLD_OUTER

Sample ID:	586423	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 21.72
Sample ID:	591018	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 17.55
Sample ID:	595410	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 17.65
Sample ID:	602043	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 21.03

Sample Point 168 [INDICATOR - WSW @ 4.6 miles]

TLD RING TLD_OUTER

Sample ID:	586424	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 18.20
Sample ID:	591019	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 18.34
Sample ID:	595411	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 16.48
Sample ID:	602044	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 17.63

Sample Point 169 [INDICATOR - W @ 4.03 miles]

TLD RING TLD_OUTER

Sample ID:	586425	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 14.01
Sample ID:	591020	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 13.96
Sample ID:	595412	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 12.90
Sample ID:	602045	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 14.08

Sample Point 170 [INDICATOR - WNW @ 4.32 miles]

TLD RING TLD_OUTER

Sample ID:	586426	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 25.06
Sample ID:	591021	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 24.26
Sample ID:	595413	Sample Dates: 6/21/2023 - 9/20/2023	Nuclide mR/Std Qtr	Activity 23.49
Sample ID:	602046	Sample Dates: 9/20/2023 - 12/20/2023	Nuclide mR/Std Qtr	Activity 25.80

Sample Point 171 [INDICATOR - NW @ 3.95 miles]

TLD RING TLD_OUTER

Sample ID:	586427	Sample Dates: 12/14/2022 - 3/15/2023	Nuclide mR/Std Qtr	Activity 21.15
Sample ID:	591022	Sample Dates: 3/15/2023 - 6/21/2023	Nuclide mR/Std Qtr	Activity 19.65

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 94 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 171 [INDICATOR - NW @ 3.95 miles]

TLD RING TLD_OUTER

Sample ID:	595414	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	17.87
Sample ID:	602047	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	20.29

Sample Point 172 [INDICATOR - NNW @ 4.69 miles]

TLD RING TLD_OUTER

Sample ID:	586428	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	15.33
Sample ID:	591023	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.79
Sample ID:	595415	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	14.23
Sample ID:	602048	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	15.56

Sample Point 173 [INDICATOR - NNW @ 8.39 miles]

TLD RING TLD_SPEC

Sample ID:	586429	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	24.33
Sample ID:	591024	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	24.34
Sample ID:	595416	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	23.11
Sample ID:	602049	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	24.03

Sample Point 174 [INDICATOR - WNW @ 8.85 miles]

TLD RING TLD_SPEC

Sample ID:	586430	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	25.19
Sample ID:	591025	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	25.71
Sample ID:	595417	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	24.29
Sample ID:	602050	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	25.51

Sample Point 175 [CONTROL - WNW @ 15.5 miles]

TLD RING TLD_CTRL

Sample ID:	586431	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	23.00
Sample ID:	591026	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	24.10
Sample ID:	595418	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	19.65
Sample ID:	602051	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	23.14

Sample Point 177 [INDICATOR - S @ 8.77 miles]

TLD RING TLD_SPEC

Sample ID:	586432	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	13.63
Sample ID:	591027	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	12.75
Sample ID:	595419	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	12.92
Sample ID:	602052	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	14.94

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 95 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 178 [INDICATOR - SE @ 9.36 miles]

TLD RING TLD_SPEC

Sample ID:	586433	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	15.88
Sample ID:	591028	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	15.66
Sample ID:	595420	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	11.43
Sample ID:	602053	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	13.88

Sample Point 180 [INDICATOR - NNE @ 12.7 miles]

TLD RING TLD_SPEC

Sample ID:	586434	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	25.42
Sample ID:	591029	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	24.52
Sample ID:	595421	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	22.74
Sample ID:	602054	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	26.72

Sample Point 181 [INDICATOR - NE @ 7.02 miles]

TLD RING TLD_SPEC

Sample ID:	586435	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	17.11
Sample ID:	591030	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.98
Sample ID:	595422	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	15.57
Sample ID:	602055	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	16.62

Sample Point 182 [INDICATOR - ENE @ 6.23 miles]

TLD RING TLD_SPEC

Sample ID:	586436	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	19.08
Sample ID:	591031	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	16.93
Sample ID:	595423	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	17.66
Sample ID:	602056	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	18.57

Sample Point 186 [INDICATOR - NNW @ 0.24 miles]

TLD RING TLD_SPEC

Sample ID:	586437	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	16.61
Sample ID:	591032	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	17.26
Sample ID:	595424	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	15.17
Sample ID:	602057	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	18.25

Sample Point 187 [INDICATOR - N @ 0.19 miles]

TLD RING TLD_SPEC

Sample ID:	586438	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	18.67
Sample ID:	591033	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	16.52

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 96 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 187 [INDICATOR - N @ 0.19 miles]

TLD RING TLD_SPEC

Sample ID:	595425	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	16.02
Sample ID:	602058	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	17.16

Sample Point 189 [INDICATOR - SSE @ 0.43 miles]

TLD RING TLD_INNER

Sample ID:	586439	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	16.38
Sample ID:	591034	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	14.62
Sample ID:	595426	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	14.23
Sample ID:	602059	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	15.85

Sample Point 190 [INDICATOR - WSW @ 0.37 miles]

TLD RING TLD_INNER

Sample ID:	586440	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	18.56
Sample ID:	591035	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	17.78
Sample ID:	595427	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	17.65
Sample ID:	602060	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	21.17

Sample Point 191 [INDICATOR - NNE @ 2.84 miles]

TLD RING TLD_SPEC

Sample ID:	586441	Sample Dates:	12/14/2022 - 3/15/2023	Nuclide	Activity
				mR/Std Qtr	19.17
Sample ID:	591036	Sample Dates:	3/15/2023 - 6/21/2023	Nuclide	Activity
				mR/Std Qtr	16.59
Sample ID:	595428	Sample Dates:	6/21/2023 - 9/20/2023	Nuclide	Activity
				mR/Std Qtr	17.09
Sample ID:	602061	Sample Dates:	9/20/2023 - 12/20/2023	Nuclide	Activity
				mR/Std Qtr	18.64

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	583007	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.00E+01	0.00E+00	3.00E+01
					Co-58	<2.70E+01	0.00E+00	2.70E+01
					Fe-59	<4.27E+01	0.00E+00	4.27E+01
					Co-60	<3.17E+01	0.00E+00	3.17E+01
					Zn-65	<6.91E+01	0.00E+00	6.91E+01
					Zr-95	<5.43E+01	0.00E+00	5.43E+01
					Nb-95	<2.59E+01	0.00E+00	2.59E+01
					I-131	<2.56E+01	0.00E+00	2.56E+01
					Cs-134	<3.56E+01	0.00E+00	3.56E+01
					Cs-137	<2.92E+01	0.00E+00	2.92E+01
					BaLa-140	<1.96E+01	0.00E+00	1.96E+01
					Be-7	1.21E+03	3.08E+02	3.52E+02
					K-40	5.39E+03	8.15E+02	2.48E+02
Sample ID:	585401	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.17E+01	0.00E+00	2.17E+01
					Co-58	<2.39E+01	0.00E+00	2.39E+01
					Fe-59	<4.09E+01	0.00E+00	4.09E+01
					Co-60	<2.45E+01	0.00E+00	2.45E+01
					Zn-65	<4.44E+01	0.00E+00	4.44E+01
					Zr-95	<3.90E+01	0.00E+00	3.90E+01

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Report Generated @ 2/27/2024 14:22:37

Duke Energy Annual Report - Appendix E

Appendix E - Page 97 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 585401	Sample Dates: 2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Nb-95	<2.26E+01	0.00E+00	2.26E+01
			I-131	<2.05E+01	0.00E+00	2.05E+01
			Cs-134	<2.38E+01	0.00E+00	2.38E+01
			Cs-137	<2.25E+01	0.00E+00	2.25E+01
			BaLa-140	<2.15E+01	0.00E+00	2.15E+01
			Be-7	3.01E+02	1.61E+02	2.38E+02
			K-40	2.59E+03	4.79E+02	3.55E+02
Sample ID: 586715	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.13E+01	0.00E+00	1.13E+01
			Co-58	<1.11E+01	0.00E+00	1.11E+01
			Fe-59	<2.14E+01	0.00E+00	2.14E+01
			Co-60	<1.21E+01	0.00E+00	1.21E+01
			Zn-65	<2.72E+01	0.00E+00	2.72E+01
			Zr-95	<1.80E+01	0.00E+00	1.80E+01
			Nb-95	<1.26E+01	0.00E+00	1.26E+01
			I-131	<1.11E+01	0.00E+00	1.11E+01
			Cs-134	<1.17E+01	0.00E+00	1.17E+01
			Cs-137	<1.30E+01	0.00E+00	1.30E+01
			BaLa-140	<1.18E+01	0.00E+00	1.18E+01
			Be-7	7.93E+02	1.39E+02	1.40E+02
			K-40	5.00E+03	5.49E+02	2.27E+02
Sample ID: 587820	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.20E+01	0.00E+00	3.20E+01
			Co-58	<1.89E+01	0.00E+00	1.89E+01
			Fe-59	<5.68E+01	0.00E+00	5.68E+01
			Co-60	<2.88E+01	0.00E+00	2.88E+01
			Zn-65	<6.58E+01	0.00E+00	6.58E+01
			Zr-95	<3.94E+01	0.00E+00	3.94E+01
			Nb-95	<2.61E+01	0.00E+00	2.61E+01
			I-131	<2.11E+01	0.00E+00	2.11E+01
			Cs-134	<4.01E+01	0.00E+00	4.01E+01
			Cs-137	<2.57E+01	0.00E+00	2.57E+01
			BaLa-140	<2.29E+01	0.00E+00	2.29E+01
			Be-7	3.35E+02	1.98E+02	3.03E+02
			K-40	7.96E+03	9.59E+02	3.26E+02
Sample ID: 589655	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.39E+01	0.00E+00	2.39E+01
			Co-58	<1.66E+01	0.00E+00	1.66E+01
			Fe-59	<4.65E+01	0.00E+00	4.65E+01
			Co-60	<2.60E+01	0.00E+00	2.60E+01
			Zn-65	<5.40E+01	0.00E+00	5.40E+01
			Zr-95	<3.76E+01	0.00E+00	3.76E+01
			Nb-95	<1.96E+01	0.00E+00	1.96E+01
			I-131	<2.15E+01	0.00E+00	2.15E+01
			Cs-134	<3.06E+01	0.00E+00	3.06E+01
			Cs-137	<1.96E+01	0.00E+00	1.96E+01
			BaLa-140	<2.34E+01	0.00E+00	2.34E+01
			Be-7	8.19E+02	2.21E+02	2.84E+02
			K-40	3.78E+03	5.83E+02	4.30E+02
Sample ID: 590692	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.99E+01	0.00E+00	1.99E+01
			Co-58	<1.67E+01	0.00E+00	1.67E+01
			Fe-59	<4.04E+01	0.00E+00	4.04E+01
			Co-60	<1.68E+01	0.00E+00	1.68E+01
			Zn-65	<4.03E+01	0.00E+00	4.03E+01
			Zr-95	<3.45E+01	0.00E+00	3.45E+01
			Nb-95	<2.09E+01	0.00E+00	2.09E+01
			I-131	<1.74E+01	0.00E+00	1.74E+01
			Cs-134	<4.81E+01	0.00E+00	4.81E+01
			Cs-137	<1.93E+01	0.00E+00	1.93E+01
			BaLa-140	<1.91E+01	0.00E+00	1.91E+01
			Be-7	3.56E+02	1.57E+02	2.34E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 98 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	590692	Sample Dates:	6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					K-40	5.71E+03	6.58E+02	2.35E+02
Sample ID:	591883	Sample Dates:	7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.46E+01	0.00E+00	2.46E+01
					Co-58	<2.42E+01	0.00E+00	2.42E+01
					Fe-59	<4.61E+01	0.00E+00	4.61E+01
					Co-60	<2.65E+01	0.00E+00	2.65E+01
					Zn-65	<5.55E+01	0.00E+00	5.55E+01
					Zr-95	<4.73E+01	0.00E+00	4.73E+01
					Nb-95	<2.76E+01	0.00E+00	2.76E+01
					I-131	<2.27E+01	0.00E+00	2.27E+01
					Cs-134	<3.22E+01	0.00E+00	3.22E+01
					Cs-137	<2.83E+01	0.00E+00	2.83E+01
					BaLa-140	<2.65E+01	0.00E+00	2.65E+01
					Be-7	6.27E+02	2.34E+02	3.30E+02
					K-40	5.18E+03	7.29E+02	3.96E+02
Sample ID:	593606	Sample Dates:	8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.03E+01	0.00E+00	3.03E+01
					Co-58	<2.04E+01	0.00E+00	2.04E+01
					Fe-59	<5.01E+01	0.00E+00	5.01E+01
					Co-60	<2.15E+01	0.00E+00	2.15E+01
					Zn-65	<4.98E+01	0.00E+00	4.98E+01
					Zr-95	<3.80E+01	0.00E+00	3.80E+01
					Nb-95	<2.33E+01	0.00E+00	2.33E+01
					I-131	<1.84E+01	0.00E+00	1.84E+01
					Cs-134	<3.72E+01	0.00E+00	3.72E+01
					Cs-137	<2.63E+01	0.00E+00	2.63E+01
					BaLa-140	<1.62E+01	0.00E+00	1.62E+01
					Be-7	7.15E+02	2.01E+02	2.27E+02
					K-40	3.72E+03	5.90E+02	2.02E+02
Sample ID:	595039	Sample Dates:	9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.73E+01	0.00E+00	2.73E+01
					Co-58	<2.78E+01	0.00E+00	2.78E+01
					Fe-59	<5.15E+01	0.00E+00	5.15E+01
					Co-60	<2.29E+01	0.00E+00	2.29E+01
					Zn-65	<5.55E+01	0.00E+00	5.55E+01
					Zr-95	<3.76E+01	0.00E+00	3.76E+01
					Nb-95	<1.77E+01	0.00E+00	1.77E+01
					I-131	<2.00E+01	0.00E+00	2.00E+01
					Cs-134	<3.06E+01	0.00E+00	3.06E+01
					Cs-137	<1.92E+01	0.00E+00	1.92E+01
					BaLa-140	<6.57E+00	0.00E+00	6.57E+00
					Be-7	3.27E+02	1.63E+02	2.25E+02
					K-40	7.07E+03	9.51E+02	2.86E+02
Sample ID:	597341	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.27E+01	0.00E+00	3.27E+01
					Co-58	<2.84E+01	0.00E+00	2.84E+01
					Fe-59	<6.99E+01	0.00E+00	6.99E+01
					Co-60	<2.93E+01	0.00E+00	2.93E+01
					Zn-65	<5.11E+01	0.00E+00	5.11E+01
					Zr-95	<5.96E+01	0.00E+00	5.96E+01
					Nb-95	<1.96E+01	0.00E+00	1.96E+01
					I-131	<3.17E+01	0.00E+00	3.17E+01
					Cs-134	<4.07E+01	0.00E+00	4.07E+01
					Cs-137	<3.34E+01	0.00E+00	3.34E+01
					BaLa-140	<3.92E+01	0.00E+00	3.92E+01
					Be-7	6.33E+02	2.73E+02	3.51E+02
					K-40	4.39E+03	8.29E+02	8.57E+01
Sample ID:	599508	Sample Dates:	11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.55E+01	0.00E+00	2.55E+01
					Co-58	<2.47E+01	0.00E+00	2.47E+01
					Fe-59	<5.20E+01	0.00E+00	5.20E+01
					Co-60	<3.12E+01	0.00E+00	3.12E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 99 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	599508	Sample Dates:	11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<5.16E+01	0.00E+00	5.16E+01
					Zr-95	<4.89E+01	0.00E+00	4.89E+01
					Nb-95	<2.99E+01	0.00E+00	2.99E+01
					I-131	<2.34E+01	0.00E+00	2.34E+01
					Cs-134	<3.49E+01	0.00E+00	3.49E+01
					Cs-137	<2.47E+01	0.00E+00	2.47E+01
					BaLa-140	<2.96E+01	0.00E+00	2.96E+01
					Be-7	1.15E+03	2.95E+02	3.42E+02
					K-40	4.50E+03	7.18E+02	3.00E+02

Sample ID:	601827	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.74E+01	0.00E+00	5.74E+01
					Co-58	<2.87E+01	0.00E+00	2.87E+01
					Fe-59	<7.27E+01	0.00E+00	7.27E+01
					Co-60	<4.21E+01	0.00E+00	4.21E+01
					Zn-65	<1.24E+02	0.00E+00	1.24E+02
					Zr-95	<7.69E+01	0.00E+00	7.69E+01
					Nb-95	<3.85E+01	0.00E+00	3.85E+01
					I-131	<2.70E+01	0.00E+00	2.70E+01
					Cs-134	<3.97E+01	0.00E+00	3.97E+01
					Cs-137	<3.14E+01	0.00E+00	3.14E+01
					BaLa-140	<1.35E+01	0.00E+00	1.35E+01
					Be-7	9.48E+02	3.87E+02	5.08E+02
					K-40	5.52E+03	1.06E+03	4.39E+02

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	583008	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.70E+01	0.00E+00	4.70E+01
					Co-58	<2.78E+01	0.00E+00	2.78E+01
					Fe-59	<7.39E+01	0.00E+00	7.39E+01
					Co-60	<4.78E+01	0.00E+00	4.78E+01
					Zn-65	<6.36E+01	0.00E+00	6.36E+01
					Zr-95	<6.34E+01	0.00E+00	6.34E+01
					Nb-95	<3.13E+01	0.00E+00	3.13E+01
					I-131	<2.47E+01	0.00E+00	2.47E+01
					Cs-134	<4.76E+01	0.00E+00	4.76E+01
					Cs-137	<3.20E+01	0.00E+00	3.20E+01
					BaLa-140	<5.61E+01	0.00E+00	5.61E+01
					Be-7	7.25E+02	3.19E+02	4.29E+02
					K-40	4.04E+03	8.69E+02	5.99E+02

Sample ID:	585402	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.41E+01	0.00E+00	2.41E+01
					Co-58	<1.70E+01	0.00E+00	1.70E+01
					Fe-59	<3.98E+01	0.00E+00	3.98E+01
					Co-60	<2.73E+01	0.00E+00	2.73E+01
					Zn-65	<5.36E+01	0.00E+00	5.36E+01
					Zr-95	<3.46E+01	0.00E+00	3.46E+01
					Nb-95	<2.21E+01	0.00E+00	2.21E+01
					I-131	<1.91E+01	0.00E+00	1.91E+01
					Cs-134	<2.70E+01	0.00E+00	2.70E+01
					Cs-137	<2.26E+01	0.00E+00	2.26E+01
					BaLa-140	<2.12E+01	0.00E+00	2.12E+01
					Be-7	6.14E+02	2.13E+02	2.95E+02
					K-40	4.67E+03	6.51E+02	3.53E+02

Sample ID:	586716	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.06E+01	0.00E+00	2.06E+01
					Co-58	<1.51E+01	0.00E+00	1.51E+01
					Fe-59	<2.41E+01	0.00E+00	2.41E+01
					Co-60	<1.75E+01	0.00E+00	1.75E+01
					Zn-65	<3.55E+01	0.00E+00	3.55E+01
					Zr-95	<2.94E+01	0.00E+00	2.94E+01
					Nb-95	<1.69E+01	0.00E+00	1.69E+01
					I-131	<1.42E+01	0.00E+00	1.42E+01
					Cs-134	<1.94E+01	0.00E+00	1.94E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 100 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 586716	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-137	<1.97E+01	0.00E+00	1.97E+01
			BaLa-140	<1.92E+01	0.00E+00	1.92E+01
			Be-7	1.03E+03	2.06E+02	2.16E+02
			K-40	3.69E+03	5.14E+02	2.71E+02
Sample ID: 587821	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.06E+01	0.00E+00	2.06E+01
			Co-58	<2.12E+01	0.00E+00	2.12E+01
			Fe-59	<4.30E+01	0.00E+00	4.30E+01
			Co-60	<1.50E+01	0.00E+00	1.50E+01
			Zn-65	<4.37E+01	0.00E+00	4.37E+01
			Zr-95	<3.73E+01	0.00E+00	3.73E+01
			Nb-95	<1.98E+01	0.00E+00	1.98E+01
			I-131	<1.81E+01	0.00E+00	1.81E+01
			Cs-134	<2.27E+01	0.00E+00	2.27E+01
			Cs-137	<2.27E+01	0.00E+00	2.27E+01
			BaLa-140	<1.84E+01	0.00E+00	1.84E+01
			Be-7	3.37E+02	1.62E+02	2.37E+02
			K-40	4.09E+03	5.91E+02	3.16E+02
Sample ID: 589656	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.86E+01	0.00E+00	1.86E+01
			Co-58	<1.99E+01	0.00E+00	1.99E+01
			Fe-59	<2.94E+01	0.00E+00	2.94E+01
			Co-60	<1.94E+01	0.00E+00	1.94E+01
			Zn-65	<4.35E+01	0.00E+00	4.35E+01
			Zr-95	<3.36E+01	0.00E+00	3.36E+01
			Nb-95	<2.08E+01	0.00E+00	2.08E+01
			I-131	<1.81E+01	0.00E+00	1.81E+01
			Cs-134	<2.03E+01	0.00E+00	2.03E+01
			Cs-137	<1.67E+01	0.00E+00	1.67E+01
			BaLa-140	<2.09E+01	0.00E+00	2.09E+01
			Be-7	5.61E+02	1.66E+02	2.28E+02
			K-40	3.94E+03	5.01E+02	2.62E+02
Sample ID: 590693	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.14E+01	0.00E+00	2.14E+01
			Co-58	<1.90E+01	0.00E+00	1.90E+01
			Fe-59	<3.50E+01	0.00E+00	3.50E+01
			Co-60	<2.00E+01	0.00E+00	2.00E+01
			Zn-65	<4.40E+01	0.00E+00	4.40E+01
			Zr-95	<3.23E+01	0.00E+00	3.23E+01
			Nb-95	<1.71E+01	0.00E+00	1.71E+01
			I-131	<1.85E+01	0.00E+00	1.85E+01
			Cs-134	<2.95E+01	0.00E+00	2.95E+01
			Cs-137	<2.04E+01	0.00E+00	2.04E+01
			BaLa-140	<1.62E+01	0.00E+00	1.62E+01
			Be-7	5.42E+02	1.70E+02	2.24E+02
			K-40	3.53E+03	5.40E+02	4.02E+02
Sample ID: 591884	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.57E+01	0.00E+00	2.57E+01
			Co-58	<2.89E+01	0.00E+00	2.89E+01
			Fe-59	<4.92E+01	0.00E+00	4.92E+01
			Co-60	<2.56E+01	0.00E+00	2.56E+01
			Zn-65	<6.67E+01	0.00E+00	6.67E+01
			Zr-95	<3.63E+01	0.00E+00	3.63E+01
			Nb-95	<2.82E+01	0.00E+00	2.82E+01
			I-131	<2.43E+01	0.00E+00	2.43E+01
			Cs-134	<3.43E+01	0.00E+00	3.43E+01
			Cs-137	<2.56E+01	0.00E+00	2.56E+01
			BaLa-140	<2.93E+01	0.00E+00	2.93E+01
			Be-7	1.81E+03	3.29E+02	3.07E+02
			K-40	3.96E+03	6.63E+02	4.56E+02
Sample ID: 593607	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.88E+01	0.00E+00	2.88E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 101 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 593607	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Co-58	<1.49E+01	0.00E+00	1.49E+01
			Fe-59	<5.75E+01	0.00E+00	5.75E+01
			Co-60	<2.43E+01	0.00E+00	2.43E+01
			Zn-65	<5.29E+01	0.00E+00	5.29E+01
			Zr-95	<5.25E+01	0.00E+00	5.25E+01
			Nb-95	<2.44E+01	0.00E+00	2.44E+01
			I-131	<1.94E+01	0.00E+00	1.94E+01
			Cs-134	<3.13E+01	0.00E+00	3.13E+01
			Cs-137	<2.94E+01	0.00E+00	2.94E+01
			BaLa-140	<2.92E+01	0.00E+00	2.92E+01
			Be-7	1.26E+03	2.87E+02	2.84E+02
			K-40	4.27E+03	6.93E+02	2.68E+02
Sample ID: 595040	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.07E+01	0.00E+00	4.07E+01
			Co-58	<2.15E+01	0.00E+00	2.15E+01
			Fe-59	<9.16E+01	0.00E+00	9.16E+01
			Co-60	<3.65E+01	0.00E+00	3.65E+01
			Zn-65	<8.33E+01	0.00E+00	8.33E+01
			Zr-95	<6.01E+01	0.00E+00	6.01E+01
			Nb-95	<3.14E+01	0.00E+00	3.14E+01
			I-131	<3.05E+01	0.00E+00	3.05E+01
			Cs-134	<4.16E+01	0.00E+00	4.16E+01
			Cs-137	<2.10E+01	0.00E+00	2.10E+01
			BaLa-140	<4.03E+01	0.00E+00	4.03E+01
			Be-7	1.00E+03	3.33E+02	3.86E+02
			K-40	4.95E+03	9.37E+02	4.23E+02
Sample ID: 597342	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.36E+01	0.00E+00	3.36E+01
			Co-58	<2.98E+01	0.00E+00	2.98E+01
			Fe-59	<4.48E+01	0.00E+00	4.48E+01
			Co-60	<4.02E+01	0.00E+00	4.02E+01
			Zn-65	<9.71E+01	0.00E+00	9.71E+01
			Zr-95	<3.95E+01	0.00E+00	3.95E+01
			Nb-95	<4.01E+01	0.00E+00	4.01E+01
			I-131	<3.09E+01	0.00E+00	3.09E+01
			Cs-134	<3.35E+01	0.00E+00	3.35E+01
			Cs-137	<3.08E+01	0.00E+00	3.08E+01
			BaLa-140	<3.85E+01	0.00E+00	3.85E+01
			Be-7	1.08E+03	3.09E+02	3.14E+02
			K-40	4.78E+03	8.77E+02	3.89E+02
Sample ID: 599509	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.84E+01	0.00E+00	1.84E+01
			Co-58	<2.18E+01	0.00E+00	2.18E+01
			Fe-59	<3.14E+01	0.00E+00	3.14E+01
			Co-60	<2.13E+01	0.00E+00	2.13E+01
			Zn-65	<4.55E+01	0.00E+00	4.55E+01
			Zr-95	<3.78E+01	0.00E+00	3.78E+01
			Nb-95	<1.92E+01	0.00E+00	1.92E+01
			I-131	<2.13E+01	0.00E+00	2.13E+01
			Cs-134	<2.23E+01	0.00E+00	2.23E+01
			Cs-137	<1.85E+01	0.00E+00	1.85E+01
			BaLa-140	<1.92E+01	0.00E+00	1.92E+01
			Be-7	1.07E+03	2.30E+02	2.61E+02
			K-40	4.16E+03	5.74E+02	2.89E+02
Sample ID: 601828	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.65E+01	0.00E+00	3.65E+01
			Co-58	<3.44E+01	0.00E+00	3.44E+01
			Fe-59	<3.62E+01	0.00E+00	3.62E+01
			Co-60	<8.57E+00	0.00E+00	8.57E+00
			Zn-65	<7.79E+01	0.00E+00	7.79E+01
			Zr-95	<5.64E+01	0.00E+00	5.64E+01
			Nb-95	<3.14E+01	0.00E+00	3.14E+01
			I-131	<3.14E+01	0.00E+00	3.14E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 102 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	601828	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Cs-134	<4.10E+01	0.00E+00	4.10E+01
					Cs-137	<3.37E+01	0.00E+00	3.37E+01
					BaLa-140	<6.11E+01	0.00E+00	6.11E+01
					Be-7	1.15E+03	3.32E+02	3.51E+02
					K-40	4.40E+03	8.50E+02	3.96E+02

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	583009	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.07E+01	0.00E+00	3.07E+01
					Co-58	<2.91E+01	0.00E+00	2.91E+01
					Fe-59	<5.96E+01	0.00E+00	5.96E+01
					Co-60	<2.39E+01	0.00E+00	2.39E+01
					Zn-65	<6.72E+01	0.00E+00	6.72E+01
					Zr-95	<4.26E+01	0.00E+00	4.26E+01
					Nb-95	<2.92E+01	0.00E+00	2.92E+01
					I-131	<2.59E+01	0.00E+00	2.59E+01
					Cs-134	<4.45E+01	0.00E+00	4.45E+01
					Cs-137	<2.85E+01	0.00E+00	2.85E+01
					BaLa-140	<4.28E+01	0.00E+00	4.28E+01
					Be-7	1.48E+03	3.52E+02	3.64E+02
					K-40	3.01E+03	6.26E+02	3.24E+02

Sample ID:	585403	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.63E+01	0.00E+00	1.63E+01
					Co-58	<1.62E+01	0.00E+00	1.62E+01
					Fe-59	<2.61E+01	0.00E+00	2.61E+01
					Co-60	<1.55E+01	0.00E+00	1.55E+01
					Zn-65	<3.72E+01	0.00E+00	3.72E+01
					Zr-95	<2.58E+01	0.00E+00	2.58E+01
					Nb-95	<1.43E+01	0.00E+00	1.43E+01
					I-131	<1.54E+01	0.00E+00	1.54E+01
					Cs-134	<2.15E+01	0.00E+00	2.15E+01
					Cs-137	<1.49E+01	0.00E+00	1.49E+01
					BaLa-140	<1.77E+01	0.00E+00	1.77E+01
					Be-7	2.22E+03	2.93E+02	1.90E+02
					K-40	2.72E+03	4.05E+02	2.07E+02

Sample ID:	586717	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.63E+01	0.00E+00	1.63E+01
					Co-58	<1.26E+01	0.00E+00	1.26E+01
					Fe-59	<2.86E+01	0.00E+00	2.86E+01
					Co-60	<2.16E+01	0.00E+00	2.16E+01
					Zn-65	<3.35E+01	0.00E+00	3.35E+01
					Zr-95	<2.66E+01	0.00E+00	2.66E+01
					Nb-95	<1.53E+01	0.00E+00	1.53E+01
					I-131	<1.39E+01	0.00E+00	1.39E+01
					Cs-134	<1.91E+01	0.00E+00	1.91E+01
					Cs-137	<1.72E+01	0.00E+00	1.72E+01
					BaLa-140	<1.90E+01	0.00E+00	1.90E+01
					Be-7	1.67E+03	2.51E+02	1.99E+02
					K-40	3.49E+03	4.85E+02	2.18E+02

Sample ID:	587822	Sample Dates:	4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.71E+01	0.00E+00	2.71E+01
					Co-58	<2.09E+01	0.00E+00	2.09E+01
					Fe-59	<5.05E+01	0.00E+00	5.05E+01
					Co-60	<2.73E+01	0.00E+00	2.73E+01
					Zn-65	<4.76E+01	0.00E+00	4.76E+01
					Zr-95	<3.74E+01	0.00E+00	3.74E+01
					Nb-95	<2.32E+01	0.00E+00	2.32E+01
					I-131	<2.72E+01	0.00E+00	2.72E+01
					Cs-134	<2.85E+01	0.00E+00	2.85E+01
					Cs-137	<2.63E+01	0.00E+00	2.63E+01
					BaLa-140	<2.83E+01	0.00E+00	2.83E+01
					Be-7	2.21E+02	1.71E+02	2.68E+02
					K-40	4.98E+03	7.49E+02	4.63E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 103 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 589657	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.09E+01	0.00E+00	2.09E+01
			Co-58	<1.95E+01	0.00E+00	1.95E+01
			Fe-59	<4.54E+01	0.00E+00	4.54E+01
			Co-60	<2.64E+01	0.00E+00	2.64E+01
			Zn-65	<4.44E+01	0.00E+00	4.44E+01
			Zr-95	<3.64E+01	0.00E+00	3.64E+01
			Nb-95	<2.71E+01	0.00E+00	2.71E+01
			I-131	<2.06E+01	0.00E+00	2.06E+01
			Cs-134	<2.95E+01	0.00E+00	2.95E+01
			Cs-137	<2.59E+01	0.00E+00	2.59E+01
			BaLa-140	<2.33E+01	0.00E+00	2.33E+01
			Be-7	1.02E+03	2.59E+02	3.27E+02
			K-40	4.21E+03	6.32E+02	4.07E+02
Sample ID: 590694	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.64E+01	0.00E+00	2.64E+01
			Co-58	<2.55E+01	0.00E+00	2.55E+01
			Fe-59	<3.59E+01	0.00E+00	3.59E+01
			Co-60	<2.58E+01	0.00E+00	2.58E+01
			Zn-65	<4.48E+01	0.00E+00	4.48E+01
			Zr-95	<5.15E+01	0.00E+00	5.15E+01
			Nb-95	<2.52E+01	0.00E+00	2.52E+01
			I-131	<2.24E+01	0.00E+00	2.24E+01
			Cs-134	<2.91E+01	0.00E+00	2.91E+01
			Cs-137	<2.82E+01	0.00E+00	2.82E+01
			BaLa-140	<2.71E+01	0.00E+00	2.71E+01
			Be-7	8.40E+02	2.35E+02	2.94E+02
			K-40	3.60E+03	5.89E+02	4.07E+02
Sample ID: 591885	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.36E+01	0.00E+00	2.36E+01
			Co-58	<2.33E+01	0.00E+00	2.33E+01
			Fe-59	<4.71E+01	0.00E+00	4.71E+01
			Co-60	<2.17E+01	0.00E+00	2.17E+01
			Zn-65	<5.02E+01	0.00E+00	5.02E+01
			Zr-95	<4.66E+01	0.00E+00	4.66E+01
			Nb-95	<2.05E+01	0.00E+00	2.05E+01
			I-131	<2.17E+01	0.00E+00	2.17E+01
			Cs-134	<2.52E+01	0.00E+00	2.52E+01
			Cs-137	<2.25E+01	0.00E+00	2.25E+01
			BaLa-140	<2.64E+01	0.00E+00	2.64E+01
			Be-7	1.59E+03	2.91E+02	2.66E+02
			K-40	2.96E+03	5.31E+02	3.69E+02
Sample ID: 593608	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.20E+01	0.00E+00	1.20E+01
			Co-58	<1.01E+01	0.00E+00	1.01E+01
			Fe-59	<2.10E+01	0.00E+00	2.10E+01
			Co-60	<1.29E+01	0.00E+00	1.29E+01
			Zn-65	<2.62E+01	0.00E+00	2.62E+01
			Zr-95	<2.15E+01	0.00E+00	2.15E+01
			Nb-95	<1.23E+01	0.00E+00	1.23E+01
			I-131	<1.12E+01	0.00E+00	1.12E+01
			Cs-134	<1.64E+01	0.00E+00	1.64E+01
			Cs-137	<1.26E+01	0.00E+00	1.26E+01
			BaLa-140	<8.10E+00	0.00E+00	8.10E+00
			Be-7	1.12E+03	1.72E+02	1.67E+02
			K-40	3.68E+03	4.17E+02	1.99E+02
Sample ID: 595041	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.50E+01	0.00E+00	2.50E+01
			Co-58	<2.64E+01	0.00E+00	2.64E+01
			Fe-59	<6.32E+01	0.00E+00	6.32E+01
			Co-60	<2.39E+01	0.00E+00	2.39E+01
			Zn-65	<6.73E+01	0.00E+00	6.73E+01
			Zr-95	<4.57E+01	0.00E+00	4.57E+01
			Nb-95	<3.07E+01	0.00E+00	3.07E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 104 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	595041	Sample Dates:	9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<2.54E+01	0.00E+00	2.54E+01
					Cs-134	<3.47E+01	0.00E+00	3.47E+01
					Cs-137	<3.24E+01	0.00E+00	3.24E+01
					BaLa-140	<3.06E+01	0.00E+00	3.06E+01
					Be-7	6.85E+02	2.15E+02	2.10E+02
					K-40	5.22E+03	8.60E+02	3.24E+02

Sample ID:	597343	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.92E+01	0.00E+00	3.92E+01
					Co-58	<4.11E+01	0.00E+00	4.11E+01
					Fe-59	<7.39E+01	0.00E+00	7.39E+01
					Co-60	<4.70E+01	0.00E+00	4.70E+01
					Zn-65	<9.94E+01	0.00E+00	9.94E+01
					Zr-95	<6.78E+01	0.00E+00	6.78E+01
					Nb-95	<2.88E+01	0.00E+00	2.88E+01
					I-131	<3.89E+01	0.00E+00	3.89E+01
					Cs-134	<5.03E+01	0.00E+00	5.03E+01
					Cs-137	<3.38E+01	0.00E+00	3.38E+01
					BaLa-140	<5.80E+01	0.00E+00	5.80E+01
					Be-7	2.22E+03	5.02E+02	4.91E+02
					K-40	4.66E+03	9.76E+02	7.00E+02

Sample ID:	599510	Sample Dates:	11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.07E+01	0.00E+00	3.07E+01
					Co-58	<2.01E+01	0.00E+00	2.01E+01
					Fe-59	<5.29E+01	0.00E+00	5.29E+01
					Co-60	<3.32E+01	0.00E+00	3.32E+01
					Zn-65	<7.29E+01	0.00E+00	7.29E+01
					Zr-95	<4.83E+01	0.00E+00	4.83E+01
					Nb-95	<2.26E+01	0.00E+00	2.26E+01
					I-131	<3.06E+01	0.00E+00	3.06E+01
					Cs-134	<3.75E+01	0.00E+00	3.75E+01
					Cs-137	<2.68E+01	0.00E+00	2.68E+01
					BaLa-140	<2.88E+01	0.00E+00	2.88E+01
					Be-7	8.58E+02	2.56E+02	2.94E+02
					K-40	4.97E+03	8.27E+02	5.10E+02

Sample ID:	601829	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.65E+01	0.00E+00	3.65E+01
					Co-58	<4.54E+01	0.00E+00	4.54E+01
					Fe-59	<5.67E+01	0.00E+00	5.67E+01
					Co-60	<4.31E+01	0.00E+00	4.31E+01
					Zn-65	<7.97E+01	0.00E+00	7.97E+01
					Zr-95	<5.40E+01	0.00E+00	5.40E+01
					Nb-95	<3.00E+01	0.00E+00	3.00E+01
					I-131	<3.07E+01	0.00E+00	3.07E+01
					Cs-134	<3.92E+01	0.00E+00	3.92E+01
					Cs-137	<3.24E+01	0.00E+00	3.24E+01
					BaLa-140	<5.13E+01	0.00E+00	5.13E+01
					Be-7	1.07E+03	3.21E+02	3.54E+02
					K-40	3.47E+03	7.71E+02	5.58E+02

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID:	583010	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.31E+01	0.00E+00	3.31E+01
					Co-58	<2.77E+01	0.00E+00	2.77E+01
					Fe-59	<8.68E+01	0.00E+00	8.68E+01
					Co-60	<3.78E+01	0.00E+00	3.78E+01
					Zn-65	<7.08E+01	0.00E+00	7.08E+01
					Zr-95	<6.40E+01	0.00E+00	6.40E+01
					Nb-95	<1.75E+01	0.00E+00	1.75E+01
					I-131	<2.99E+01	0.00E+00	2.99E+01
					Cs-134	<2.68E+01	0.00E+00	2.68E+01
					Cs-137	<2.89E+01	0.00E+00	2.89E+01
					BaLa-140	<2.68E+01	0.00E+00	2.68E+01
					Be-7	1.29E+03	3.70E+02	4.35E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 105 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID:	583010	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					K-40	4.62E+03	8.83E+02	6.00E+02
Sample ID:	585404	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.89E+01	0.00E+00	1.89E+01
					Co-58	<1.48E+01	0.00E+00	1.48E+01
					Fe-59	<3.25E+01	0.00E+00	3.25E+01
					Co-60	<2.11E+01	0.00E+00	2.11E+01
					Zn-65	<4.23E+01	0.00E+00	4.23E+01
					Zr-95	<2.78E+01	0.00E+00	2.78E+01
					Nb-95	<1.70E+01	0.00E+00	1.70E+01
					I-131	<1.58E+01	0.00E+00	1.58E+01
					Cs-134	<2.13E+01	0.00E+00	2.13E+01
					Cs-137	<1.73E+01	0.00E+00	1.73E+01
					BaLa-140	<2.58E+01	0.00E+00	2.58E+01
					Be-7	2.79E+03	3.66E+02	2.28E+02
					K-40	4.82E+03	6.25E+02	3.25E+02
Sample ID:	586718	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.30E+01	0.00E+00	1.30E+01
					Co-58	<1.15E+01	0.00E+00	1.15E+01
					Fe-59	<3.14E+01	0.00E+00	3.14E+01
					Co-60	<1.31E+01	0.00E+00	1.31E+01
					Zn-65	<3.36E+01	0.00E+00	3.36E+01
					Zr-95	<2.05E+01	0.00E+00	2.05E+01
					Nb-95	<1.19E+01	0.00E+00	1.19E+01
					I-131	<1.37E+01	0.00E+00	1.37E+01
					Cs-134	<1.43E+01	0.00E+00	1.43E+01
					Cs-137	<1.20E+01	0.00E+00	1.20E+01
					BaLa-140	<1.41E+01	0.00E+00	1.41E+01
					Be-7	1.44E+03	2.22E+02	1.86E+02
					K-40	4.59E+03	5.52E+02	1.86E+02
Sample ID:	587823	Sample Dates:	4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.42E+01	0.00E+00	2.42E+01
					Co-58	<2.33E+01	0.00E+00	2.33E+01
					Fe-59	<5.27E+01	0.00E+00	5.27E+01
					Co-60	<2.31E+01	0.00E+00	2.31E+01
					Zn-65	<5.36E+01	0.00E+00	5.36E+01
					Zr-95	<3.60E+01	0.00E+00	3.60E+01
					Nb-95	<2.48E+01	0.00E+00	2.48E+01
					I-131	<2.25E+01	0.00E+00	2.25E+01
					Cs-134	<2.70E+01	0.00E+00	2.70E+01
					Cs-137	<2.29E+01	0.00E+00	2.29E+01
					BaLa-140	<3.14E+01	0.00E+00	3.14E+01
					Be-7	9.39E+02	2.50E+02	3.07E+02
					K-40	5.70E+03	7.82E+02	4.16E+02
Sample ID:	589658	Sample Dates:	5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.53E+01	0.00E+00	2.53E+01
					Co-58	<2.55E+01	0.00E+00	2.55E+01
					Fe-59	<5.36E+01	0.00E+00	5.36E+01
					Co-60	<2.60E+01	0.00E+00	2.60E+01
					Zn-65	<5.64E+01	0.00E+00	5.64E+01
					Zr-95	<3.69E+01	0.00E+00	3.69E+01
					Nb-95	<2.98E+01	0.00E+00	2.98E+01
					I-131	<2.09E+01	0.00E+00	2.09E+01
					Cs-134	<2.51E+01	0.00E+00	2.51E+01
					Cs-137	<2.52E+01	0.00E+00	2.52E+01
					BaLa-140	<2.05E+01	0.00E+00	2.05E+01
					Be-7	2.10E+03	3.64E+02	3.49E+02
					K-40	5.96E+03	8.15E+02	4.39E+02
Sample ID:	590695	Sample Dates:	6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.96E+01	0.00E+00	2.96E+01
					Co-58	<2.15E+01	0.00E+00	2.15E+01
					Fe-59	<5.60E+01	0.00E+00	5.60E+01
					Co-60	<3.17E+01	0.00E+00	3.17E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 106 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID: 590695	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Zn-65	<5.14E+01	0.00E+00	5.14E+01
			Zr-95	<3.84E+01	0.00E+00	3.84E+01
			Nb-95	<2.73E+01	0.00E+00	2.73E+01
			I-131	<2.81E+01	0.00E+00	2.81E+01
			Cs-134	<2.69E+01	0.00E+00	2.69E+01
			Cs-137	<2.67E+01	0.00E+00	2.67E+01
			BaLa-140	<2.39E+01	0.00E+00	2.39E+01
			Be-7	1.59E+03	3.09E+02	3.05E+02
			K-40	5.80E+03	8.26E+02	4.95E+02
Sample ID: 591886	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.99E+01	0.00E+00	1.99E+01
			Co-58	<1.74E+01	0.00E+00	1.74E+01
			Fe-59	<3.31E+01	0.00E+00	3.31E+01
			Co-60	<1.68E+01	0.00E+00	1.68E+01
			Zn-65	<3.99E+01	0.00E+00	3.99E+01
			Zr-95	<2.84E+01	0.00E+00	2.84E+01
			Nb-95	<1.70E+01	0.00E+00	1.70E+01
			I-131	<1.65E+01	0.00E+00	1.65E+01
			Cs-134	<2.40E+01	0.00E+00	2.40E+01
			Cs-137	<1.68E+01	0.00E+00	1.68E+01
			BaLa-140	<9.06E+00	0.00E+00	9.06E+00
			Be-7	2.66E+03	3.39E+02	2.59E+02
			K-40	5.75E+03	6.70E+02	3.49E+02
Sample ID: 593609	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.15E+01	0.00E+00	1.15E+01
			Co-58	<1.06E+01	0.00E+00	1.06E+01
			Fe-59	<2.14E+01	0.00E+00	2.14E+01
			Co-60	<1.13E+01	0.00E+00	1.13E+01
			Zn-65	<2.21E+01	0.00E+00	2.21E+01
			Zr-95	<1.75E+01	0.00E+00	1.75E+01
			Nb-95	<1.11E+01	0.00E+00	1.11E+01
			I-131	<1.18E+01	0.00E+00	1.18E+01
			Cs-134	<1.31E+01	0.00E+00	1.31E+01
			Cs-137	<1.01E+01	0.00E+00	1.01E+01
			BaLa-140	<1.04E+01	0.00E+00	1.04E+01
			Be-7	1.69E+03	2.03E+02	1.20E+02
			K-40	4.65E+03	4.95E+02	1.85E+02
Sample ID: 595042	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.49E+01	0.00E+00	1.49E+01
			Co-58	<1.92E+01	0.00E+00	1.92E+01
			Fe-59	<5.44E+01	0.00E+00	5.44E+01
			Co-60	<2.18E+01	0.00E+00	2.18E+01
			Zn-65	<6.79E+01	0.00E+00	6.79E+01
			Zr-95	<3.90E+01	0.00E+00	3.90E+01
			Nb-95	<3.28E+01	0.00E+00	3.28E+01
			I-131	<2.13E+01	0.00E+00	2.13E+01
			Cs-134	<2.37E+01	0.00E+00	2.37E+01
			Cs-137	<2.49E+01	0.00E+00	2.49E+01
			BaLa-140	<2.80E+01	0.00E+00	2.80E+01
			Be-7	6.76E+02	3.00E+02	2.19E+02
			K-40	6.07E+03	9.21E+02	2.69E+02
Sample ID: 597344	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.40E+01	0.00E+00	3.40E+01
			Co-58	<2.55E+01	0.00E+00	2.55E+01
			Fe-59	<7.42E+01	0.00E+00	7.42E+01
			Co-60	<3.39E+01	0.00E+00	3.39E+01
			Zn-65	<8.24E+01	0.00E+00	8.24E+01
			Zr-95	<4.06E+01	0.00E+00	4.06E+01
			Nb-95	<2.48E+01	0.00E+00	2.48E+01
			I-131	<3.15E+01	0.00E+00	3.15E+01
			Cs-134	<2.87E+01	0.00E+00	2.87E+01
			Cs-137	<3.15E+01	0.00E+00	3.15E+01
			BaLa-140	<3.54E+01	0.00E+00	3.54E+01

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Duke Energy Annual Report - Appendix E

Appendix E - Page 107 of 108

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID:	597344	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Be-7	1.50E+03	3.53E+02	3.34E+02
					K-40	5.07E+03	9.09E+02	5.33E+02
Sample ID:	599511	Sample Dates:	11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.66E+01	0.00E+00	2.66E+01
					Co-58	<2.41E+01	0.00E+00	2.41E+01
					Fe-59	<4.25E+01	0.00E+00	4.25E+01
					Co-60	<2.81E+01	0.00E+00	2.81E+01
					Zn-65	<4.42E+01	0.00E+00	4.42E+01
					Zr-95	<3.66E+01	0.00E+00	3.66E+01
					Nb-95	<2.36E+01	0.00E+00	2.36E+01
					I-131	<2.06E+01	0.00E+00	2.06E+01
					Cs-134	<2.61E+01	0.00E+00	2.61E+01
					Cs-137	<2.32E+01	0.00E+00	2.32E+01
					BaLa-140	<6.43E+00	0.00E+00	6.43E+00
					Be-7	8.56E+02	2.15E+02	2.21E+02
					K-40	4.42E+03	6.77E+02	3.52E+02
Sample ID:	601830	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.75E+01	0.00E+00	2.75E+01
					Co-58	<2.48E+01	0.00E+00	2.48E+01
					Fe-59	<5.35E+01	0.00E+00	5.35E+01
					Co-60	<2.48E+01	0.00E+00	2.48E+01
					Zn-65	<6.35E+01	0.00E+00	6.35E+01
					Zr-95	<4.91E+01	0.00E+00	4.91E+01
					Nb-95	<2.73E+01	0.00E+00	2.73E+01
					I-131	<1.98E+01	0.00E+00	1.98E+01
					Cs-134	<3.33E+01	0.00E+00	3.33E+01
					Cs-137	<2.88E+01	0.00E+00	2.88E+01
					BaLa-140	<2.17E+01	0.00E+00	2.17E+01
					Be-7	9.54E+02	3.02E+02	3.81E+02
					K-40	4.63E+03	8.11E+02	5.63E+02

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Duke Energy Annual Report - Appendix E

Appendix E - Page 108 of 108

APPENDIX F

ERRATA TO PREVIOUS REPORTS

There are no errata to be appended to the
2023 McGuire Nuclear Station AREOR.

Enclosure 5
RA-24-0031

ENCLOSURE 5: [ONS Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**DUKE ENERGY CORPORATION
OCONEE NUCLEAR STATION
Units 1, 2, and 3**

2023



TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP.	2-1
2.3 Statistical and Calculational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-2
3.2 Drinking Water	3-7
3.3 Surface Water	3-11
3.4 Milk	3-14
3.5 Broadleaf Vegetation	3-17
3.6 Fish	3-19
3.7 Shoreline Sediment	3-23
3.8 Direct Gamma Radiation	3-25
3.8.1 Environmental TLD	3-25
3.8.2 ISFSI	3-26
3.9 Land Use Census	3-29
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-2
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 Intercomparison Program	4-2
4.7 TLD Intercomparison Program	4-2
4.8 General Engineering Laboratories, LLC (GEL)	4-3
Appendices	
Appendix A: Environmental Sampling & Analysis Procedures	A-1
I. Change of Sampling Procedures.	A-2
II. Description of Analysis Procedures	A-2
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program - Summary of Results.	B-1
Air Particulate	B-2
Air Radioiodine.	B-2
Drinking Water	B-2
Surface Water	B-2
Milk	B-3
Broadleaf Vegetation	B-3
Fish	B-3

Shoreline Sediment	B-3
Direct Gamma Radiation (TLD)	B-3
Appendix C: Sampling Deviations & Unavailable Analyses	C-1
C.1 Sampling Deviations	C-2
C.2 Unavailable Analyses	C-3
Appendix D: Analytical Deviations	D-1
D.1 Analytical Deviations	D-2
Appendix E: Radiological Environmental Monitoring Program Results	E-1
Appendix F: Errata to Previous Reports	F-1

LIST OF FIGURES

2.1-1	Oconee Nuclear Station Sampling Locations Map (One Mile Radius)..	2-4
2.1-2	Oconee Nuclear Station Sampling Locations Map (Ten Mile Radius) . .	2-5
2.1-3	Oconee Nuclear Station Sampling Locations Map (>10 Mile Radius) . .	2-6
3.1	Concentration of Gross Beta in Air Particulate	3-5
3.2-1	Concentration of Gross Beta in Drinking Water	3-8
3.2-2	Concentration of Tritium in Drinking Water	3-8
3.3	Concentration of Tritium in Surface Water	3-11
3.5	Concentration of Cs-137 in Broadleaf Vegetation	3-17
3.6-1	Concentration of Cs-137 in Fish	3-20
3.6-2	Concentration of Cs-134 in Fish	3-20
3.7	Concentration of Cs-137 in Shoreline Sediment	3-23
3.8	Direct Gamma Radiation (TLD) Results	3-27
3.9	Oconee Nuclear Station 2023 Land Use Census Map	3-31

LIST OF TABLES

2.1-A	Oconee Radiological Monitoring Program Sampling Locations	2-7
2.1-B	Oconee Radiological Monitoring Program Sampling Locations (TLD Sites)	2-8
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-9
2.2-B	REMP Analysis Frequency	2-9
2.2-C	Maximum Values for the <i>A PRIORI</i> Lower Limits of Detection	2-10
3.1-A	Mean Concentration of Air Radioiodine (I-131) (Preoperational-1995). .	3-3
3.1-B	Mean Concentration of Air Radioiodine (I-131) (1996-2023)	3-4
3.1-C	Mean Concentration of Gross Beta in Air Particulate	3-6
3.2-A	Mean Concentrations of Radionuclides in Drinking Water (1971-1995) .	3-9
3.2-B	Mean Concentrations of Radionuclides in Drinking Water (1996-2023) .	3-10
3.3-A	Mean Concentrations of Radionuclides in Surface Water (1969-1995). .	3-12
3.3-B	Mean Concentrations of Radionuclides in Surface Water (1996-2023). .	3-13
3.4-A	Mean Concentration of Radionuclides in Milk (Preoperational-1995)..	3-15
3.4-B	Mean Concentration of Radionuclides in Milk (1996-2023).	3-16
3.5	Mean Concentration of Radionuclides in Vegetation	3-18
3.6-A	Mean Concentrations of Radionuclides in Fish (Preop-2014)	3-21
3.6-B	Mean Concentrations of Radionuclides in Fish (2015-2023)	3-22
3.7	Mean Concentrations of Radionuclides in Shoreline Sediment	3-24
3.8	Direct Gamma Radiation (TLD) Results	3-28
3.9	Oconee 2023 Land Use Census Results	3-30
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2023 Environmental Dosimeter Cross-Check Results	4-5
4.0-C	2023 General Engineering Laboratories, LLC (GEL) QA Results	4-7

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

A	Annually
AP	Air Particulate
AR	Air Radioiodine/ Air Cartridge
AREOR	Annual Radiological Environmental Operating Report
BLV	Broadleaf Vegetation
C	Control
CM	Community
CR	Condition Report (analogous to Nuclear Condition Report (NCR))
EZA	Eckert & Ziegler Analytics
FI	Fish
FP	Food Product
GEL	General Engineering Laboratories, LLC
GPS	Global Positioning System
GW	Ground Water
I	Indicator
IR	Inner Ring - TLDs
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mR	milliroentgen
mR/Std Qtr	milliroentgen per standard quarter
MWe	Megawatt (electrical)
NCR	Nuclear Condition Report (analogous to Condition Report (CR))
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Off-Site Dose Calculation Manual
OR	Outer Ring - TLDs
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
PI	Power Interrupt
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SS	Sediment – Shoreline
SI	Special Interest - TLDs
SW	Surface Water
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Oconee Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by station operations, and a summary of environmental radiological sampling results. Quality assurance practices and program changes are also discussed.

Sampling activities were conducted as prescribed by Offsite Dose Calculations Manual (ODCM) and Selected Licensee Commitments (SLCs). Required analyses were performed and detection capabilities were met for all collected samples as required by SLCs. Nine-hundred-forty-four samples were analyzed comprising 983 test results in order to compile data for the 2023 report. Based on the 2023 annual land use census, no changes were made to the program in 2023.

Concentrations observed in the environment in 2023 for station related radionuclides were within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in drinking water and surface water are higher than the activities reported for samples collected at control locations. All positively identified measurements attributable to station operation were within limits as specified in SLCs.

The continued operation of ONS has not contributed measurable radiation or the presence of gamma radioactivity in the environmental media monitored. The surface water and drinking water samples revealed tritium concentrations that are well within the applicable regulatory limits. The radiological environmental data for 2023 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to ONS operations in 2023 were within limits as specified in the ONS ODCM, thus presenting no significant impact on the environment or public safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Oconee Nuclear Station (ONS) is located in Oconee County, South Carolina, approximately 8 miles northeast of Seneca, South Carolina, on the shore of Lake Keowee. This lake was formed by damming the Keowee and Little Rivers in that location. Immediately to the south is the U.S. Government Hartwell Project. The Keowee Hydroelectric Plant near the station joins Lake Keowee and the upper reaches of Lake Hartwell. To the north, the Jocassee Hydroelectric Plant joins Lake Jocassee and Lake Keowee. Jocassee is a pumped storage plant.

ONS consists of three pressurized water reactors. Each unit has an output of 846 megawatts net. Unit 1 license for operation was issued 2/6/1973. Unit 2 license for operation was issued 10/6/1973. Unit 3 license for operation was issued 7/19/1974. An independent spent fuel storage installation is also located at the site.

The Oconee site centerline used for GPS measurements was referenced from the Oconee Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for ONS GPS measurements were latitude 34°-47'-38.2"N and longitude 82°-53'-55.4"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

Figures 2.1-1, 2.1-2, and 2.1-3 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within a one mile radius of ONS. Figure 2.1-2 comprises all sample locations within a one and ten mile radius of ONS. Figure 2.1-3 comprises all sample locations greater than a ten mile radius of ONS.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

A Radiological Environmental Monitoring Program (REMP) has been in effect at Oconee Nuclear Station since 1969, four years prior to operation of Unit 1 in 1973. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other "man-

made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Oconee Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and 10CFR72.44(d)(2) and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public, and state and federal agencies concerned with the environment. Reporting levels for radioactivity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the Radiological Environmental Monitoring Program are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.9.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. “Net activity (or concentration)” is the activity (or concentration) determined to be present in the sample. No “Minimum Detectable Activity”, “Lower Limit of Detection”, “Less Than Level”, or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

x_i = net activity (or concentration) for sample i.

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the Environmental Monitoring Program.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield, and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the Selected Licensee Commitments and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Some factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the 2011 Japan earthquake and tsunami, which triggered the Fukushima Dai-ichi nuclear power plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

Oconee Nuclear Station Sampling Locations Map (One Mile Radius)

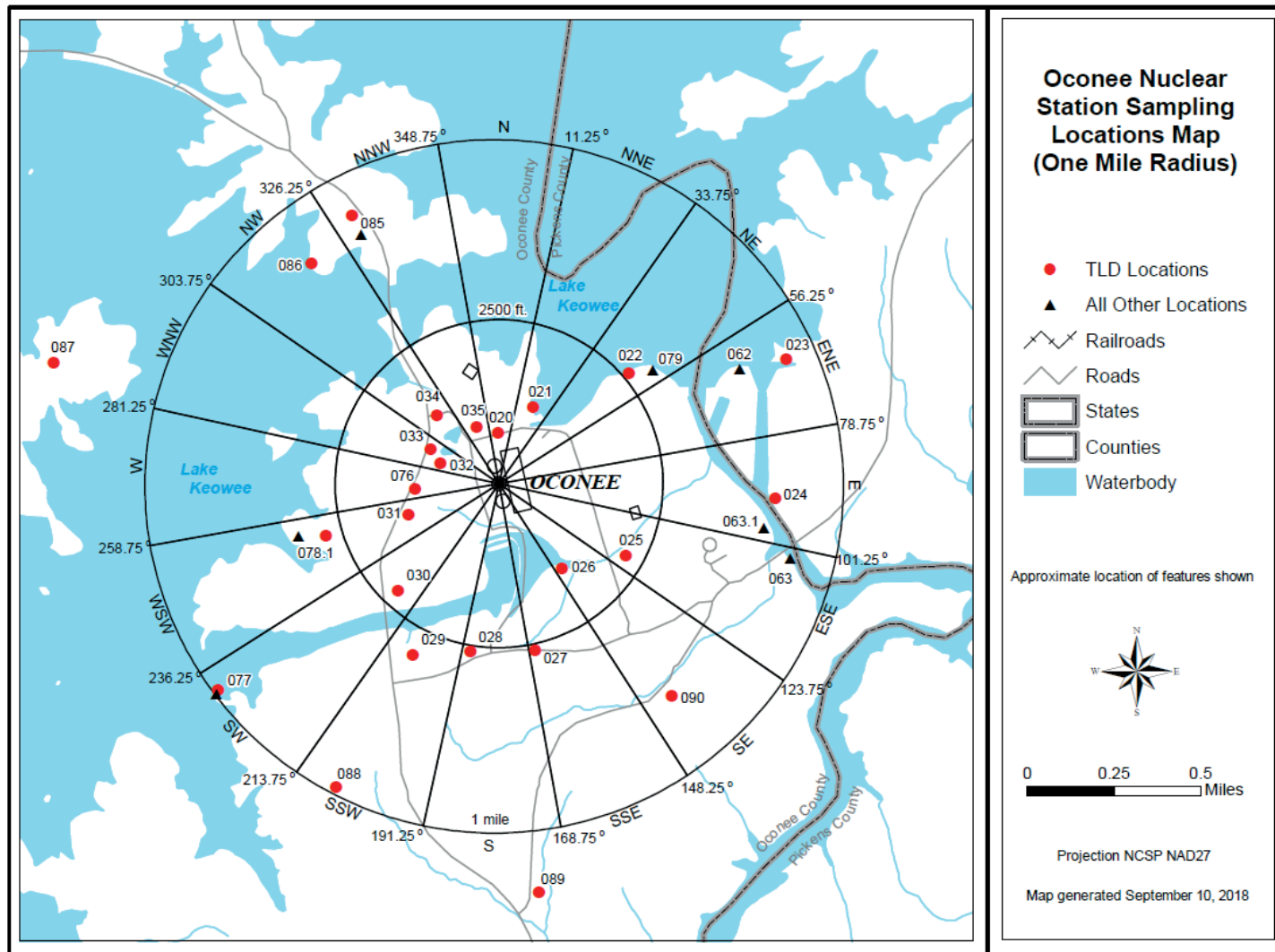


Figure 2.1-2

Oconee Nuclear Station Sampling Locations Map (Ten Mile Radius)

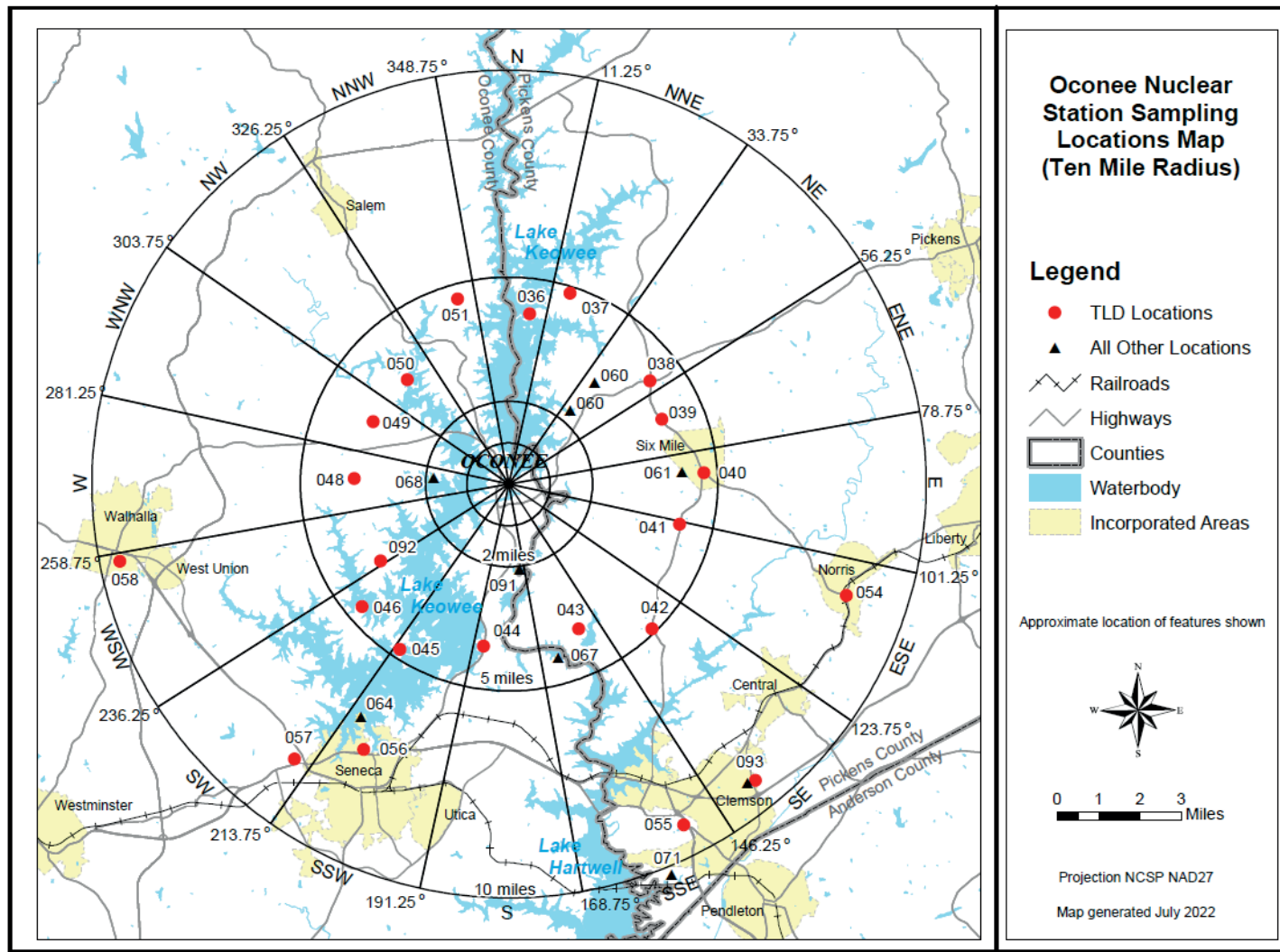


Figure 2.1-3

Oconee Nuclear Station Sampling Locations Map (>10 Mile Radius)

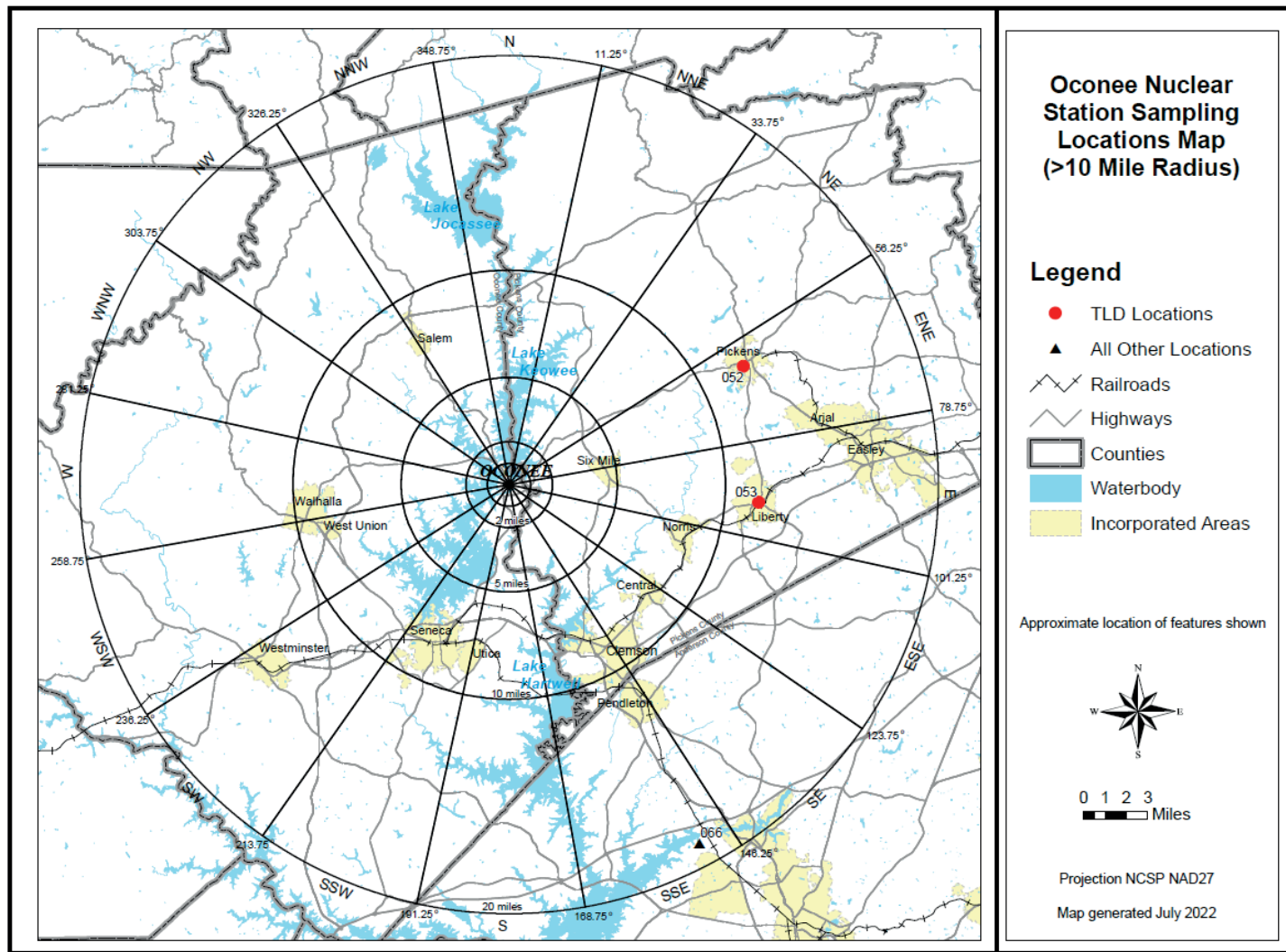


TABLE 2.1-A

OCONEE RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS^(a)

Table 2.1-A Codes			
BW	BiWeekly	Q	Quarterly
C	Control	SA	Semiannually
CM	Community	SB	Site Boundary
I	Indicator	SM	Semimonthly
M	Monthly	W	Weekly

Site #	Measure Type	Location Description*	Air Rad. & Particulate	Surface Water	Drinking Water	Shoreline Sediment	Fish	Milk ^(b)	Broadleaf Vegetation
060	I	Greenville Water Intake Road (3.23 NE)			M				
060	C**	Greenville Water Intake Road (2.28 NE)					SA		
061	I	J Anthony, Goat Milk (4.18 E)						SM	
062	C	Lake Keowee Hydro Intake (0.85 mi ENE)		M					
063	I	Lake Hartwell Hwy 183 Bridge (0.80 mi ESE) [000.7]					SA		
063.1	I	Lake Hartwell Hwy 183 (0.79 mi E)		M					
064	C	Seneca Municipal Water Supply (6.67 mi SSW) [004.1]			M				
066	I	Anderson Municipal Water Supply (18.9 mi SSE) [012]			M				
067	I	Lawrence Ramsey Bridge Hwy 27 (4.34 mi SSE) [005.2]				SA	SA		
068	C	High Falls County Park (1.82 mi W)				SA			
071	C	Clemson Dairy (10.2 mi SSE) [006.3]						SM	
077	I	Skimmer Wall (1.00 mi SW)	W,SB						M,SB
078.1	I	Recreation Site (0.53 mi WSW)	W,SB						
079	I	Keowee Dam (0.56 mi NE)	W,SB						M, SB
085	I	Lake Services / Building B9125 (0.88 mi NNW)	W,CM						
091	I	Holders Landing Road (2.09 miles S)				SA			
093	C	Clemson Operations Center (9.34 mi SE)	W						M

(a) Sample locations are identified in the ODCM.

(b) Samples from milking animals in three locations within 5 km distance having the highest dose potential. If there are none, then one sample from milking animals in each of the three areas between 5 to 8 km distant where doses are calculated to be greater than 1 mrem per year. One sample from milking animals at a control location, as for example 15-30 km distant and in the least prevalent wind direction.

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

** Control for Fish Only

[] Location Numbers prior to 1984

TABLE 2.1-B

**OCONEE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS (TLD SITES)^(a)**

Table 2.1-B Codes			
C	Control	OR	Outer Ring
IR	Inner Ring	SI	Special Interest

Site #	Measure Type	Location*	Distance (miles)	Sector	Site #	Measure Type	Location*	Distance (miles)	Sector
020	IR	Site Boundary	0.16	N	044	OR	HWY 130 at Little River Dam	3.96	S
021	IR	Site Boundary	0.25	NNE	045	OR	Terminus of HWY 588 at Crooked Creek	4.78	SSW
022	IR	Site Boundary	0.53	NE	046	OR	HWY 188 at Crooked Creek	4.61	SW
023	IR	Site Boundary	0.93	ENE	048	OR	JCT HWY 175 & 188	3.64	W
024	IR	Site Boundary	0.81	E	049	OR	JCT HWY 201 & 92	3.60	WNW
025	IR	Site Boundary	0.42	ESE	050	OR	Stamp Creek Landing, End of HWY 92	3.53	NW
026	IR	Site Boundary	0.34	SE	051	OR	HWY 128, 1 mile N OF HWY 130	4.64	NNW
027	IR	Site Boundary	0.49	SSE	052	SI	DPC Branch Office Site, Pickens	12.4	ENE
028	IR	Site Boundary	0.46	S	053	SI	DPC Branch Office Site, Liberty	11.7	E
029	IR	Site Boundary	0.56	SSW	054	SI	Post Office - HWY 93 Norris	8.60	ESE
030	IR	Site Boundary	0.42	SW	055	SI	Clemson Meteorology Plot	9.27	SSE
031	IR	Site Boundary	0.27	WSW	056	SI	Water Tower - Seneca	7.30	SSW
076	IR	Site Boundary	0.19	W	057	SI	Oconee Memorial Hospital	8.42	SW
032	IR	Site Boundary	0.19	WNW	058	C	Branch Rd Substation, Walhalla	9.39	WSW
033	IR	Site Boundary	0.21	WNW	077	IR	Skimmer wall shared with air monitoring station	1.00	SW
034	IR	Site Boundary	0.22	NW	078.1	IR	ONS Recreation Site shared with air monitoring station	0.53	WSW
035	IR	Site Boundary	0.17	NNW	085	IR	Lake Services Bldg 9125 shared with air monitoring location	0.88	NNW
036	OR	Mile Creek Landing	4.18	N	086	IR	Lake Keowee Service Rd at Boat Landing	0.83	NW
037	OR	Keowee Church, HWY 327	4.85	NNE	087	IR	End of Waterfall Rd	1.33	WNW
038	OR	Convenience Mart, JCT HWY 183 & 133	4.24	NE	088	IR	Doug Hollow Rd / Transmission Tower	1.00	SSW
039	OR	HWY 133, 1 mile East of JCT HWY 183 & 133	4.02	ENE	089	IR	Intersection Hwy 130 & Keowee River Rd	1.19	S
040	OR	Microwave Tower, Six Mile	4.74	E	090	IR	Crescent Resources, Keowee River Rd at Beaver Dam	0.79	SE
041	OR	JCT HWY 101 & 133	4.25	ESE	092	OR	Hilton Circle stop sign HWY 188	3.62	WSW
042	OR	Lawrence Chapel Church, HWY 133	4.93	SE	093	C	Clemson Operations Center	9.34	SE
043	OR	HWY 291 at Issaqueena Park	4.09	SSE					

* GPS data reflect accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

a) Sample locations are identified in the ODCM.

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)
H-3	20,000 ^(a)	---	---	---	---
Mn-54	1,000	---	30,000	---	---
Fe-59	400	---	10,000	---	---
Co-58	1,000	---	30,000	---	---
Co-60	300	---	10,000	---	---
Zn-65	300	---	20,000	---	---
Zr-Nb-95	400	---	---	---	---
I-131	2 ^(b)	0.9	---	3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200	---	---	300	---

(a) For drinking water samples only. This is 40CFR Part 141 value.

(b) If low-level I-131 analyses are performed.

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X	---	---	---	---
Air Particulate	Weekly	---	---	---	(b)	---
	Quarterly Composite	X	---	---	---	---
Direct Radiation	Quarterly	---	---	---	---	X
Surface Water	Monthly ^(c)	X	---	---	---	---
	Quarterly Composite ^(c)	---	X	---	---	---
Drinking Water	Monthly ^(c)	X	---	(a)	X	---
	Quarterly Composite ^(c)	---	X	---	---	---
Shoreline Sediment	Semiannually	X	---	---	---	---
Milk	Semimonthly	X	---	X	---	---
Fish	Semiannually	X	---	---	---	---
Broadleaf Vegetation	Monthly	X	---	---	---	---

(a) Low level I-131 analysis will be performed if abnormal releases occur which could reasonably result in > 1 pCi/liter of I-131 in drinking water. An LLD of 1 pCi/liter will be required for this analysis.

(b) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than 10 times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.

(c) Composite samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.

TABLE 2.2-C

MAXIMUM VALUES FOR THE *A PRIORI* LOWER LIMITS OF DETECTION^(a)

Analysis ^(c)	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01	---	---	---	---
H-3	2000	---	---	---	---	---
Mn-54	15	---	130	---	---	---
Fe-59	30	---	260	---	---	---
Co-58, 60	15	---	130	---	---	---
Zn-65	30	---	260	---	---	---
Zr-95	15	---	---	---	---	---
Nb-95	15	---	---	---	---	---
I-131	15 ^(b)	0.07	---	1	60	---
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15	---	---	15	---	---

(a) LLD is defined in Section 2.3.2.

(b) LLD for gamma isotopic analysis for I-131 in drinking water samples. Low level I-131 analysis on drinking water will not be routinely performed because the calculated dose from I-131 in drinking water at all locations is less than 1 mrem per year. Low level I-131 analyses will be performed if abnormal releases occur which could reasonably result in > 1 pCi/liter of I-131 in drinking water. For low level analyses of I-131 an LLD of 1 pCi/liter will be achieved.

(c) Other peaks which are measurable and identifiable, together with the radionuclides in Table 2.2-C, shall be identified and reported.

3.0 INTERPRETATION OF RESULTS

Review of 2023 REMP analysis results was performed to identify changes in environmental levels as a result of station operations. The review is summarized in this section. Data from 2023 was compared to preoperational and historical data. Sample data for some media is not directly comparable to preoperational and earlier operational sample results because of either significant change in the analysis methods or changes in the reporting of the results. Summary tables containing 2023 information required by Technical Specification Administrative Control 5.6.2 are located in Appendix B. REMP results for 2023 are located in Appendix E.

Evaluation for significant trends was performed for the radionuclides that have required LLDs listed in Selected Licensee Commitment 16.11.6. These radionuclides are collectively referred to as "Selected Licensee Commitments radionuclides" and include H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140, and La-140. Drinking water gross beta results and air particulate gross beta results are routinely trended. Trending is also performed for other radionuclides that are detected and could have been the result of station effluents. Only Selected Licensee Commitment radionuclides were detected in 2023.

Trending was performed by comparing annual mean concentrations of any effluent related detected radionuclide to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's SLC reporting level (Table 2.2-A). All maximum percent of reporting level values were well below the 100% action level.

Changes in sample location, analytical technique, and presentation of results must be considered when reviewing for trends. Calculation of the annual mean concentrations has been performed differently over the history of the REMP. During 1979-1986, all net results (sample minus background), positive and negative, were included in the calculation of the mean. Only positive net activity results were used to calculate the mean for the other years. A change in gamma spectroscopy analysis systems in 1987 ended a period when many measurements yielded detectable low-level activity for both indicator and control location samples. It is thought that the method the previous system used to estimate net activity may have been vulnerable to false-positive results.

Review of the 2023 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from ONS and surrounding areas that were attributable to plant operations. The radiological environmental data for 2023 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to ONS operations in 2023 were within limits as specified in the ONS SLC, thus presenting no significant impact on the environment or public safety.

Data presented in Sections 3.1 - 3.8 support the conclusion that there was no significant increase in radioactivity in the environment around ONS due to station operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data, shown in Section 3.9, indicated no changes were required to the program.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Airborne particulate and radioiodine samples at each of five locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly.

In 2023, 260 continuously composited radioiodine and particulate samples were collected and analyzed, 208 from four indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

There was no detectable I-131 in air samples in 2023. Table 3.1-A and Table 3.1-B give the highest indicator location annual mean and control location annual mean for I-131 since the preoperational period. The tables show similar historical concentrations for both the indicator and control locations and the activities decreasing from early in the operational history of the plant. No I-131 activity due to ONS plant operations has been detected since 1994.

There were no detectable gamma emitting radionuclides detected in air particulate samples in 2023 due to ONS plant operations. No gamma emitting particulates due to ONS operations have been detected in indicator location samples since the change in gamma spectroscopy analysis systems in 1987.

Beta analysis of particulate filters was initiated in March of 1996 and became required by Selected Licensee Commitments in 1998. Gross beta analysis was performed on particulate filters during the preoperational and early operational history of the plant but had not been required since 1984. Figure 3.1 summarizes gross beta results for the indicator location with the highest annual mean and the control location samples. Table 3.1-C gives the Gross Beta concentration in air particulate filters since 1996. Both the indicator and control location results are similar in concentration and are near the lower range of preoperational gross beta results which ranged from 0.04 to 1.46 pCi/m³.

K-40 and Be-7 observed in air samples are naturally occurring radionuclides.

Table 3.1-A Mean Concentration of Air Radioiodine (I-131) (Preoperational-1995)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
Preoperational 1969-1972	0.00E0	0.00E0
Feb. 1973 - June 1973	0.00E0	0.00E0
July 1973 - Dec. 1973	0.00E0	0.00E0
Jan. 1974 - June 1974	0.00E0	0.00E0
July 1974 - Dec. 1974	2.60E-2	8.00E-3
Jan. 1975 - June 1975	8.65E-2	3.12E-2
July 1975 - Dec. 1975	1.13E-2	9.52E-3
1976	2.76E-2	2.18E-2
1977	3.60E-2	3.60E-2
1978	2.19E-1	1.15E-1
1979	7.54E-3	4.75E-4
1980	3.07E-3	9.67E-4
1981	6.31E-3	5.39E-4
1982	2.87E-3	8.10E-4
1983	1.48E-3	3.05E-4
1984	8.11E-4	-2.30E-5
1985	7.71E-4	4.54E-4
1986	5.02E-3	7.86E-3
1987 ⁽¹⁾	4.29E-3	5.19E-3
1988	0.00E0	0.00E0
1989	4.99E-4	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	1.03E-2	0.00E0
1995	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

1979 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

Table 3.1-B Mean Concentration of Air Radioiodine (I-131) (1996-2023)

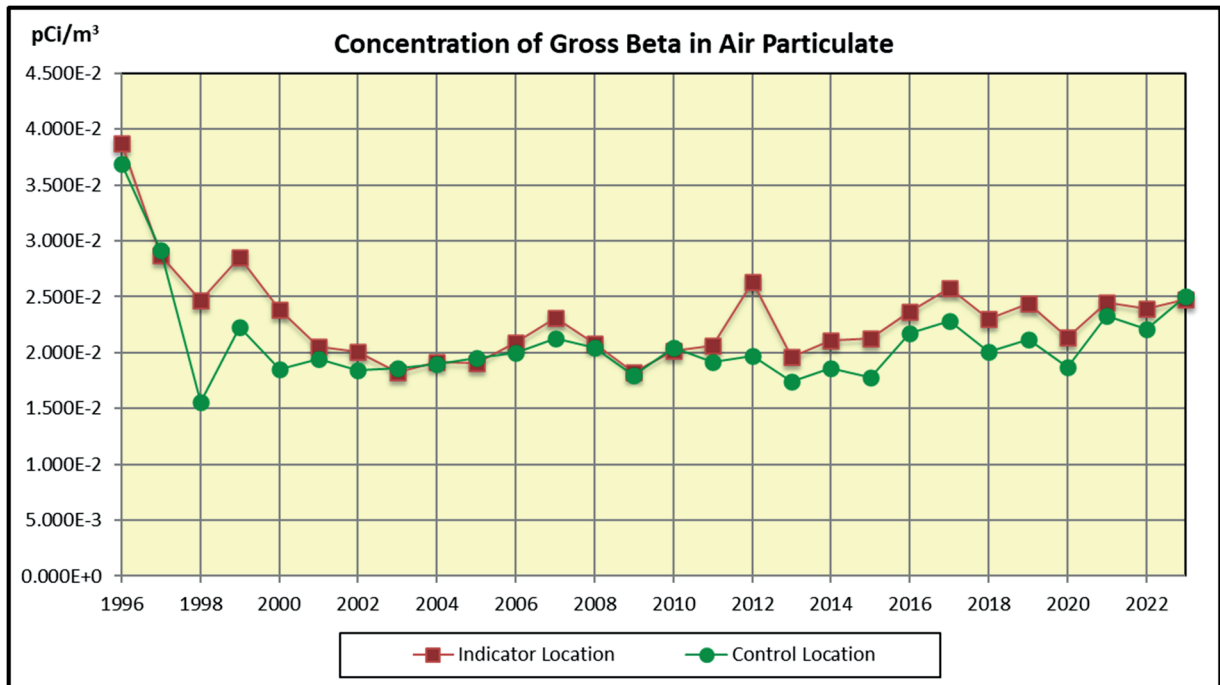
Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011 ⁽¹⁾	5.05E-2	4.13E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0
2015	0.00E0	0.00E0
2016	0.00E0	0.00E0
2017	0.00E0	0.00E0
2018	0.00E0	0.00E0
2019	0.00E0	0.00E0
2020	0.00E0	0.00E0
2021	0.00E0	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) 2011 concentration affected by Fukushima Daiichi

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

Figure 3.1



There is no reporting level for gross beta in air particulate

Table 3.1-C Mean Concentration of Gross Beta in Air Particulate

Monitoring Period	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1996	3.87E-2	3.69E-2
1997	2.87E-2	2.92E-2
1998	2.47E-2	1.56E-2
1999	2.85E-2	2.23E-2
2000	2.38E-2	1.85E-2
2001	2.05E-2	1.94E-2
2002	2.01E-2	1.84E-2
2003	1.86E-2	1.82E-2
2004	1.92E-2	1.90E-2
2005	1.95E-2	1.91E-2
2006	2.09E-2	2.00E-2
2007	2.31E-2	2.13E-2
2008	2.08E-2	2.04E-2
2009	1.82E-2	1.80E-2
2010	2.02E-2	2.04E-2
2011	2.06E-2	1.92E-2
2012	2.63E-2	1.97E-2
2013	1.96E-2	1.74E-2
2014	2.11E-2	1.86E-2
2015	2.13E-2	1.78E-2
2016	2.37E-2	2.17E-2
2017	2.58E-2	2.28E-2
2018	2.30E-2	2.01E-2
2019	2.44E-2	2.12E-2
2020	2.14E-2	1.87E-2
2021	2.45E-2	2.33E-2
2022	2.39E-2	2.21E-2
2023	2.48E-2	2.50E-2

3.2 DRINKING WATER

Gross beta analysis and gamma spectroscopy were performed on 39 monthly drinking water samples that were composited using water samplers that collected an aliquot every two hours. These samples were composited to form 12 quarterly composite period samples for Tritium analysis. Two indicator locations and a control location were sampled; however, only one of the indicator locations is downstream of the effluent release point.

Table 3.2-A lists the highest indicator location annual mean and control location annual mean for gross beta results since the preoperational period through 1995. Table 3.2-B lists the highest indicator location annual mean and control location annual mean for gross beta results from 1996 through 2023. The highest annual mean gross beta activity was 3.39 pCi/liter. Gross beta was not detected at the control location. The difference between the mean indicator and the mean control activities for 2023 are out of trend with the previous year's differences. This difference could be attributed to the change in the analysis procedure made in 2019. Figure 3.2-1 shows the highest indicator and control location annual means for gross beta. The tables show that 2023 gross beta levels in drinking water are similar for the indicator locations and lower for the control location than preoperational concentrations.

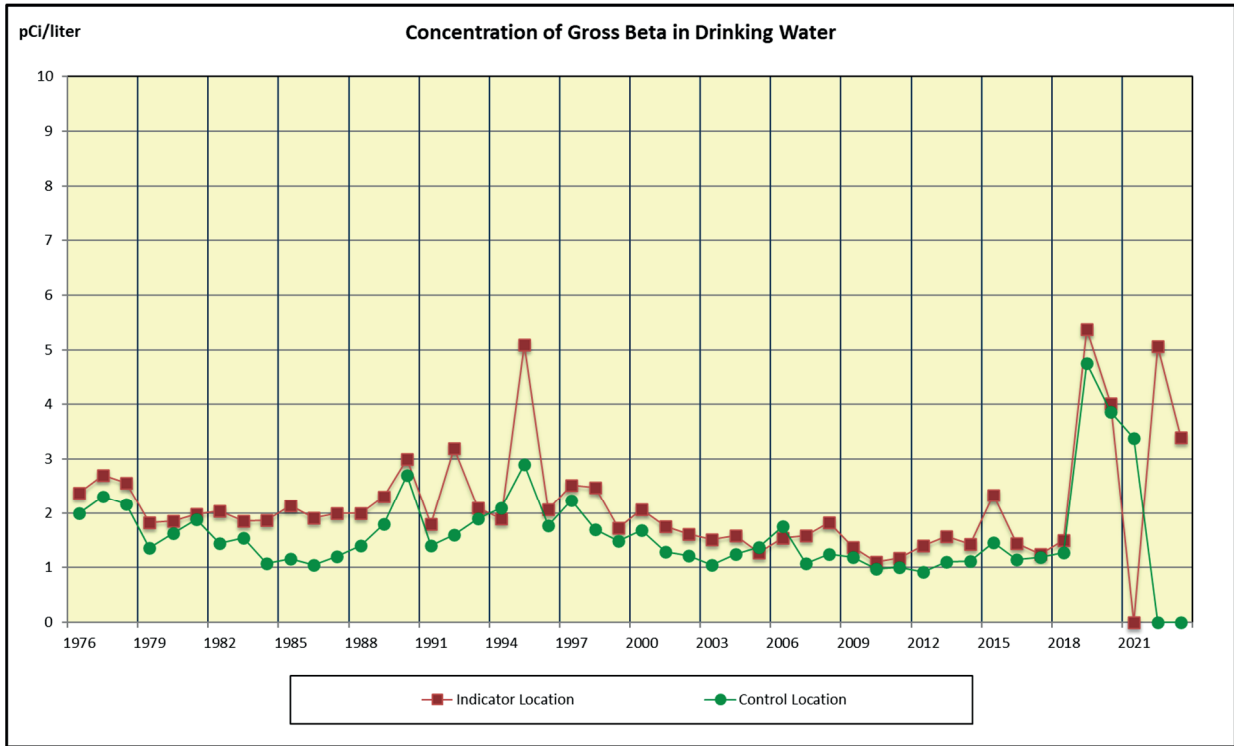
Tritium was detected in three of the twelve composite samples during 2023. Table 3.2-A, Table 3.2-B and Figure 3.2-2 show the highest indicator and control location annual means for Tritium since analysis was initiated early in the operational period. Tritium concentrations have decreased at both the indicator and control locations. The closure of the Clemson water plant in 1989 is one reason for the decrease shown in the table and graph. The Clemson site was typically the high mean location when the plant was in operation.

There were no gamma emitting radionuclides attributable to plant operations identified in drinking water samples in 2023. Gamma spectroscopy analysis has not detected any gamma activity in the water supplies since 1988.

The dose for consumption of water was less than one mrem per year based on effluent calculations and there were no abnormal releases exceeding 1 pCi/liter I-131 in 2023; therefore, low-level iodine analysis is not required.

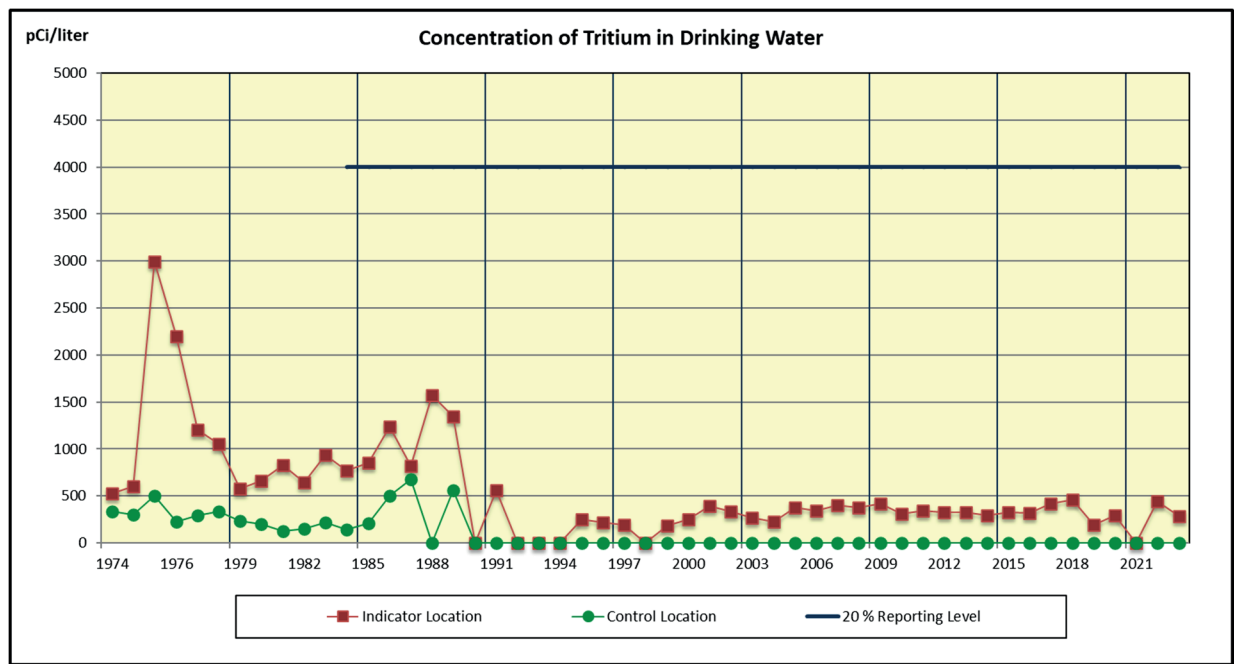
K-40 observed in drinking water samples is a naturally occurring radionuclide.

Figure 3.2-1



Analytical method changes implemented in 2019

Figure 3.2-2



Current reporting level implemented 1984

Table 3.2-A Mean Concentrations of Radionuclides in Drinking Water (1971-1995)

Year	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
Preoperational ending Jan. 1971	3.03	5.90	Analysis not required	
Preoperational ending Jan. 1973	3.58	4.94	Analysis not required	
Feb. 1973 - June 1973	Qualitative results reported		Analysis not required	
June 1973 - Dec. 1973	7.15	21.78	Analysis not required	
Jan. 1974 - June 1974	3.13	6.98	Analysis not required	
July 1974 - Dec. 1974	2.24	2.02	525	330
Jan. 1975 - June 1975	1.98	1.59	600	300
July 1975 - Dec. 1975	2.01	1.22	2990	505
1976	2.38	2.00	2196	224
1977	2.70	2.30	1200	290
1978	2.56	2.17	1050	333
1979	1.83	1.36	576	235
1980	1.86	1.63	660	200
1981	1.98	1.88	830	127
1982	2.04	1.45	643	153
1983	1.85	1.54	937	220
1984	1.87	1.08	765	145
1985	2.14	1.16	856	210
1986	1.91	1.04	1240	503
1987	2.00	1.20	815	680
1988	2.00	1.40	1570	0.00
1989	2.30	1.80	1350	559
1990	3.00	2.70	0.00	0.00
1991	1.80	1.40	558	0.00
1992	3.20	1.60	0.00	0.00
1993	2.10	1.90	0.00	0.00
1994	1.90	2.10	0.00	0.00
1995	5.10	2.90	248	0.00

0.00 indicates no detectable measurements

1989 - Clemson water plant closes; nearest downstream plant is Anderson.

1979 - 1986 mean based on all net activity results

Table 3.2-B Mean Concentrations of Radionuclides in Drinking Water (1996-2023)

Year	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1996	2.07	1.77	214	0.00
1997	2.52	2.23	194	0.00
1998	2.48	1.70	0.00	0.00
1999	1.73	1.49	185	0.00
2000	2.07	1.68	251	0.00
2001	1.75	1.29	390	0.00
2002	1.61	1.21	338	0.00
2003	1.51	1.05	266	0.00
2004	1.58	1.25	225	0.00
2005	1.28	1.37	377	0.00
2006	1.54	1.75	340	0.00
2007	1.58	1.08	402	0.00
2008	1.82	1.25	372	0.00
2009	1.37	1.19	415	0.00
2010	1.10	0.97	308	0.00
2011	1.18	1.00	339	0.00
2012	1.40	0.92	322	0.00
2013	1.57	1.11	325	0.00
2014	1.43	1.12	292	0.00
2015	2.34	1.46	325	0.00
2016	1.44	1.15	325	0.00
2017	1.25	1.19	419	0.00
2018	1.50	1.27	356	0.00
2019 ⁽¹⁾	5.38	4.75	192	0.00
2020	4.02	3.86	289	0.00
2021	0.00	3.38	0.00	0.00
2022	5.06	0.00	439	0.00
2023	3.39	0.00	286	0.00

0.00 indicates no detectable measurements

(1) Analytical method changes were implemented in 2019 for Gross Beta analysis.

3.3 SURFACE WATER

Gamma spectroscopy was performed on 26 monthly surface water samples that were composited using water samplers that collected an aliquot every two hours. These samples were composited to form eight quarterly composite period samples for Tritium analysis. One indicator and one control location were sampled. The indicator location is near the liquid effluent release point.

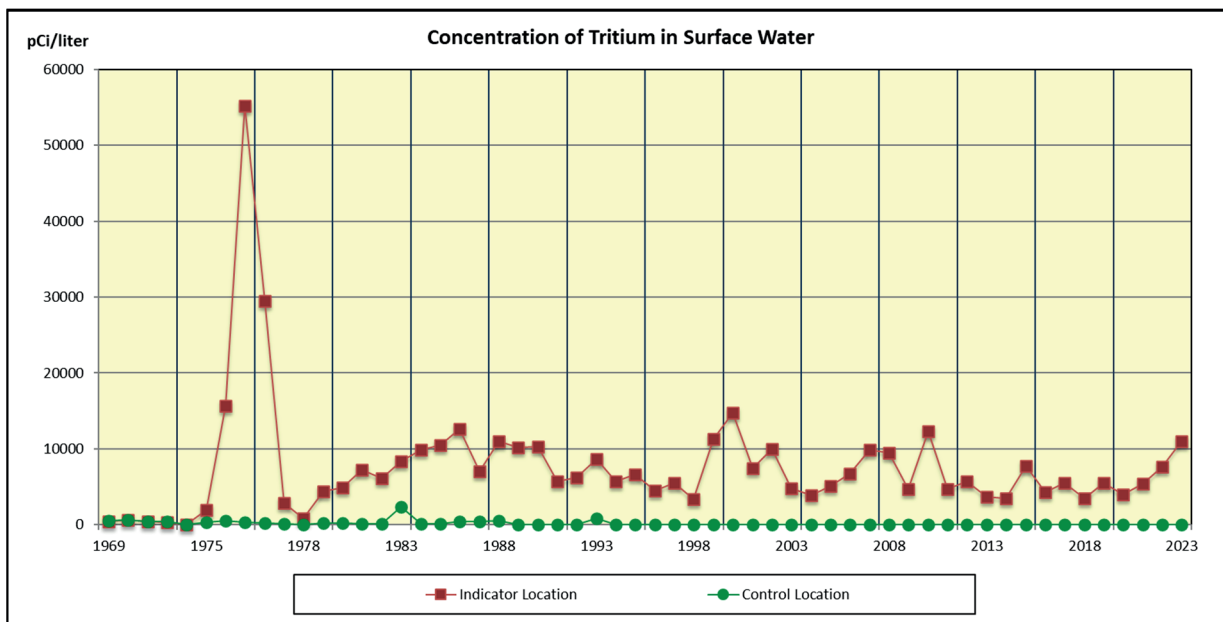
Tritium was detected in the four indicator location samples. The 2023 average concentration was 11,000 pCi/liter. The individual samples ranged from 2,010 to 27,300 pCi/liter. For comparison purposes, the 2022 mean concentration was 7,600 pCi/liter. Tritium was not detected in any control surface water samples.

Figure 3.3 shows the indicator and control annual means for Tritium since the preoperational period. Table 3.3-A lists the indicator annual means since preoperational through 1995. Table 3.3-B lists the indicator annual means from 1996 through 2023.

Gamma spectroscopy analysis did not detect any station related gamma activity during 2023. No gamma emitting radionuclides attributable to station operation have been detected in surface water samples since 1999. Table 3.3-A and Table 3.3-B summarize the indicator annual means of radionuclides detected since the change in the gamma spectroscopy analysis system in 1987. Visual inspection of the gamma spectroscopy tabular data covering the early operational period through 2023 did not reveal any increasing trends.

K-40 observed in surface water samples is a naturally occurring radionuclide.

Figure 3.3



There is no reporting level for Tritium in surface water

Table 3.3-A Mean Concentrations of Radionuclides in Surface Water (1969-1995)

Year	Co-58 (pCi/l)	Co-60 (pCi/l)	Nb-95 (pCi/l)	Cs-137 (pCi/l)	H-3 pCi/l)
Preoperational 1969		Qualitative results reported			4.86E2
Preoperational 1970		Qualitative results reported			5.94E2
Preoperational 1971		Qualitative results reported			4.01E2
Preoperational 1972		Qualitative results reported			3.62E2
1973		Qualitative results reported			0.00E0
1974	0.00E0	1.32E1	0.00E0	1.60E1	1.99E3
Jan. 1975 – June 1975	0.00E0	0.00E0	0.00E0	0.00E0	1.56E4
July 1975 – Dec. 1975	0.00E0	1.34E1	0.00E0	0.00E0	5.52E4
1976	1.08E2	3.30E1	0.00E0	3.50E1	2.95E4
1977	2.60E1	1.80E1	0.00E0	3.10E1	2.90E3
1978	2.96E2	0.00E0	0.00E0	2.22E1	8.00E2
1979	1.33E0	2.60E0	1.78E0	2.82E0	4.37E3
1980	1.56E0	2.30E0	1.22E0	5.40E0	4.93E3
1981	1.10E0	6.10E-1	1.70E0	3.90E0	7.21E3
1982	6.14E-1	1.99E0	2.29E0	4.85E0	6.13E3
1983	6.99E-1	3.02E0	3.91E-1	6.83E-1	8.40E3
1984	9.40E-1	6.30E-1	7.90E-1	4.83E-1	9.90E3
1985	2.15E-1	6.27E-1	4.95E-1	9.90E-1	1.05E4
1986	3.28E0	1.23E0	1.14E0	3.07E-1	1.26E4
1987 ⁽¹⁾	5.10E1	3.40E0	4.00E0	0.00E0	7.08E3
1988	6.20E0	5.00E0	2.50E0	3.50E0	1.10E4
1989	5.30E0	3.00E0	0.00E0	3.40E0	1.02E4
1990	1.70E0	1.60E0	0.00E0	0.00E0	1.03E4
1991	5.40E0	0.00E0	0.00E0	0.00E0	5.76E3
1992	2.50E0	0.00E0	0.00E0	0.00E0	6.22E3
1993	0.00E0	0.00E0	0.00E0	0.00E0	8.62E3
1994	0.00E0	0.00E0	0.00E0	0.00E0	5.75E3
1995	0.00E0	0.00E0	0.00E0	0.00E0	6.65E3

0.00E0 indicates no detectable measurements

1979-1986 mean based on all net activity results

(1) 1987 – Gamma spectroscopy system change

Table 3.3-B Mean Concentrations of Radionuclides in Surface Water (1996-2023)

Year	Co-58 (pCi/l)	Co-60 (pCi/l)	Nb-95 (pCi/l)	Cs-137 (pCi/l)	H-3 pCi/l)
1996	0.00E0	0.00E0	0.00E0	0.00E0	4.54E3
1997	0.00E0	0.00E0	0.00E0	0.00E0	5.50E3
1998	0.00E0	0.00E0	0.00E0	0.00E0	3.35E3
1999	2.73E1	0.00E0	0.00E0	0.00E0	1.13E4
2000	0.00E0	0.00E0	0.00E0	0.00E0	1.48E4
2001	0.00E0	0.00E0	0.00E0	0.00E0	7.43E3
2002	0.00E0	0.00E0	0.00E0	0.00E0	1.00E4
2003	0.00E0	0.00E0	0.00E0	0.00E0	4.77E3
2004	0.00E0	0.00E0	0.00E0	0.00E0	3.86E3
2005	0.00E0	0.00E0	0.00E0	0.00E0	5.15E3
2006	0.00E0	0.00E0	0.00E0	0.00E0	6.72E3
2007	0.00E0	0.00E0	0.00E0	0.00E0	9.91E3
2008	0.00E0	0.00E0	0.00E0	0.00E0	9.43E3
2009	0.00E0	0.00E0	0.00E0	0.00E0	4.68E3
2010	0.00E0	0.00E0	0.00E0	0.00E0	1.23E4
2011	0.00E0	0.00E0	0.00E0	0.00E0	4.75E3
2012	0.00E0	0.00E0	0.00E0	0.00E0	5.76E3
2013	0.00E0	0.00E0	0.00E0	0.00E0	3.68E3
2014 ⁽¹⁾	0.00E0	0.00E0	0.00E0	0.00E0	3.49E3
2015	0.00E0	0.00E0	0.00E0	0.00E0	7.73E3
2016	0.00E0	0.00E0	0.00E0	0.00E0	4.29E3
2017	0.00E0	0.00E0	0.00E0	0.00E0	5.56E3
2018	0.00E0	0.00E0	0.00E0	0.00E0	3.52E3
2019	0.00E0	0.00E0	0.00E0	0.00E0	5.56E3
2020	0.00E0	0.00E0	0.00E0	0.00E0	3.97E3
2021	0.00E0	0.00E0	0.00E0	0.00E0	5.38E3
2022	0.00E0	0.00E0	0.00E0	0.00E0	7.60E3
2023	0.00E0	0.00E0	0.00E0	0.00E0	1.10E4

0.00E0 indicates no detectable measurements

(1) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.4 MILK

Biweekly grab samples were collected at two locations although the Oconee ODCM requires semimonthly samples. Biweekly grab samples are taken to meet the required sample frequency for scheduling purposes. Goat milk from location 061 is only seasonally available. Gamma spectroscopy and low-level Iodine-131 analyses were performed on 36 milk samples collected biweekly from the control location in 2023. Ten biweekly samples from the supplemental indicator goat milk location were collected and received gamma spectroscopy and low-level Iodine-131 analyses.

There were no gamma emitting radionuclides due to ONS plant operations identified in milk samples in 2023. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1988 (excluding Fukushima Daiichi). Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period.

Table 3.4-A lists the highest indicator location annual mean and control location annual mean for Cs-137 since the preoperational period through 1995. Table 3.4-B lists the highest indicator location annual mean and control location annual mean for Cs-137 from 1996 through 2023. The tables show similar concentrations for both indicator and control locations through 2005, and Cs-137 was not detected in the control location since 1996.

K-40 observed in milk samples is a naturally occurring radionuclide.

Table 3.4-A Mean Concentration of Radionuclides in Milk (Preoperational-1995)

Year	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
Preoperational	1.57E1	1.46E1
Feb. 1973 – June 1973	Qualitative results reported	Qualitative results reported
July 1973 – Dec. 1973	5.80E0	Qualitative results reported
Jan. 1974 – June 1974	5.30E0	0.00E0
July 1974 – Dec. 1974	1.11E1	0.00E0
Jan. 1975 – June 1975	1.51E1	9.45E0
July 1975 – Dec. 1975	0.00E0	0.00E0
1976	1.80E1	7.47E0
1977	0.00E0	0.00E0
1978	1.33E1	1.33E1
1979	7.25E0	2.52E0
1980	3.58E0	2.63E0
1981	5.52E0	5.51E0
1982	2.71E0	3.25E0
1983	5.04E0	-4.27E-1
1984	2.30E0	2.58E0
1985	2.38E0	1.31E0
1986	2.92E0	2.97E0
1987 ⁽¹⁾	4.90E0	4.90E0
1988	3.90E0	3.20E0
1989	4.70E0	2.90E0
1990	6.40E0	0.00E0
1991	5.00E0	0.00E0
1992	6.60E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	1.80E0
1995	2.30E0	2.00E0

0.00E0 indicates no detectable measurements

1979 - 1986 mean based on all net activity results

(1) 1987 – Gamma spectroscopy system change

Table 3.4-B Mean Concentration of Radionuclides in Milk (1996-2023)

Year	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
1996	0.00E0	4.10E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005 ⁽¹⁾	0.00E0	0.00E0
2006	No Indicator Location	0.00E0
2007	No Indicator Location	0.00E0
2008	No Indicator Location	0.00E0
2009	No Indicator Location	0.00E0
2010	No Indicator Location	0.00E0
2011	No Indicator Location	0.00E0
2012	No Indicator Location	0.00E0
2013	No Indicator Location	0.00E0
2014 ⁽²⁾	No Indicator Location	0.00E0
2015	No Indicator Location	0.00E0
2016	No Indicator Location	0.00E0
2017	No Indicator Location	0.00E0
2018	No Indicator Location	0.00E0
2019	No Indicator Location	0.00E0
2020	No Indicator Location	0.00E0
2021	No Indicator Location	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

(1) The Oconee milk program was updated to align with NUREG-1301 during 2005 (NCR # 01753418). Location 071 was designated as the new control site effective with the 7/12/2005 sampling.

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.5 BROADLEAF VEGETATION

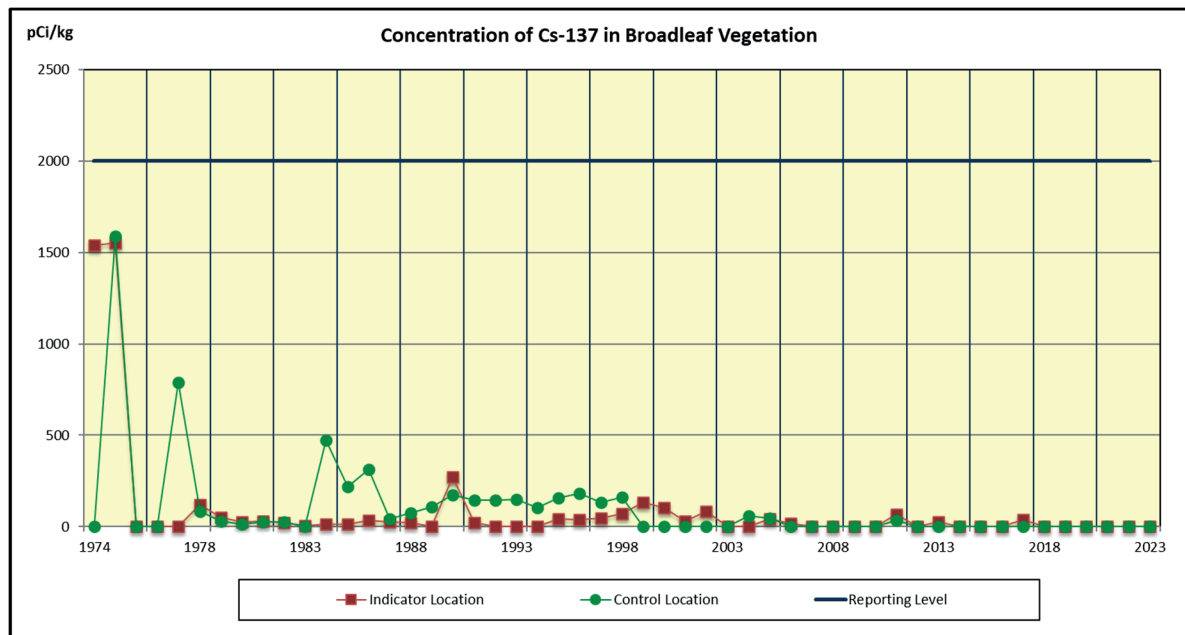
Monthly samples were collected, and a gamma analysis was performed on each of the 36 samples during 2023. Two indicator locations and one control location were sampled. There were no gamma emitting radionuclides due to ONS plant operations identified in vegetation samples in 2023.

Cs-137 is the only radionuclide, other than naturally occurring, reported in vegetation samples since the change in gamma spectroscopy analysis systems in 1987. Figure 3.5 shows the indicator and control annual means for Cs-137 since the early operational period of the plant. Table 3.5 shows historical concentrations of Cs-137.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

K-40 and Be-7 observed in broadleaf vegetation samples are naturally occurring radionuclides.

Figure 3.5



2011 concentration affected by Fukushima Daiichi

Table 3.5 Mean Concentration of Radionuclides in Vegetation

Year	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
July 1974 - Dec. 1974	1.54E3	0.00E0
Jan. 1975 - June 1975	1.55E3	1.59E3
July 1975 - Dec. 1975	0.00E0	0.00E0
1976	0.00E0	0.00E0
1977	0.00E0	7.90E2
1978	1.19E2	8.19E1
1979	5.04E1	2.96E1
1980	2.80E1	1.55E1
1981	2.99E1	2.60E1
1982	2.42E1	2.62E1
1983	7.44E0	5.35E-1
1984	1.37E1	4.74E2 [†]
1985	1.62E1	2.20E2
1986	3.28E1	3.12E2
1987 ⁽¹⁾	2.70E1	4.20E1
1988	2.40E1	7.50E1
1989	0.00E0	1.08E2
1990	2.73E2	1.74E2
1991	2.20E1	1.45E2
1992	0.00E0	1.46E2
1993	0.00E0	1.49E2
1994	0.00E0	1.06E2
1995	4.30E1	1.58E2
1996	3.79E1	1.83E2
1997	4.73E1	1.35E2
1998	7.28E1	1.61E2 ^{††}
1999	1.34E2	0.00E0 ^{†††}
2000	1.06E2	0.00E0
2001	3.19E1	0.00E0
2002	8.44E1	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	5.96E1
2005	4.51E1	4.11E1
2006	1.77E1	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	6.68E1 ^{††††}	3.35E1 ^{††††}
2012	0.00E0	0.00E0
2013	2.57E1	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0
2015	0.00E0	0.00E0
2016	0.00E0	0.00E0
2017	3.94E1	0.00E0
2018	0.00E0	0.00E0
2019	0.00E0	0.00E0
2020	0.00E0	0.00E0
2021	0.00E0	0.00E0
2022	0.00E0	0.00E0
2023	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

Qualitative results reported prior to 1974

1979 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

[†] Control location changed to 073 in 1984

^{††} Control location 081 added in 1998

^{†††} Control location 073 removed in 1999

^{††††} 2011 concentration affected by Fukushima Daiichi

3.6 FISH

In 2023, gamma spectroscopy was performed on the edible portions of 12 semiannual fish samples. Two downstream indicator locations and one control location were sampled. There were no gamma emitting radionuclides due to ONS plant operations identified in fish samples in 2023.

Figures 3.6-1 and 3.6-2 are graphs displaying the annual means for Cs-137 and Cs-134. Historically, both are contributors to the calculated dose from liquid effluents from ingestion of fish. Radioactivity concentrations in downstream fish samples are higher than those reported in preoperational fish samples, however, concentrations in fish have decreased over time with decreases in radioactive material releases from the plant.

One factor affecting the trend analysis is a change in sampling locations. In 1984, a second downstream fish location was added. Location 063 is closer to the liquid effluent discharge point and has been the highest mean indicator since it was added.

Table 3.6-A lists the highest indicator location annual means for radionuclides detected from the Preoperational period through 2014. Table 3.6-B list the highest indicator location annual means for radionuclides detected from 2015-2023. Also included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987. Comparison of data to previous years does not indicate any increases in concentrations.

K-40 observed in fish samples is a naturally occurring radionuclide.

Figure 3.6-1

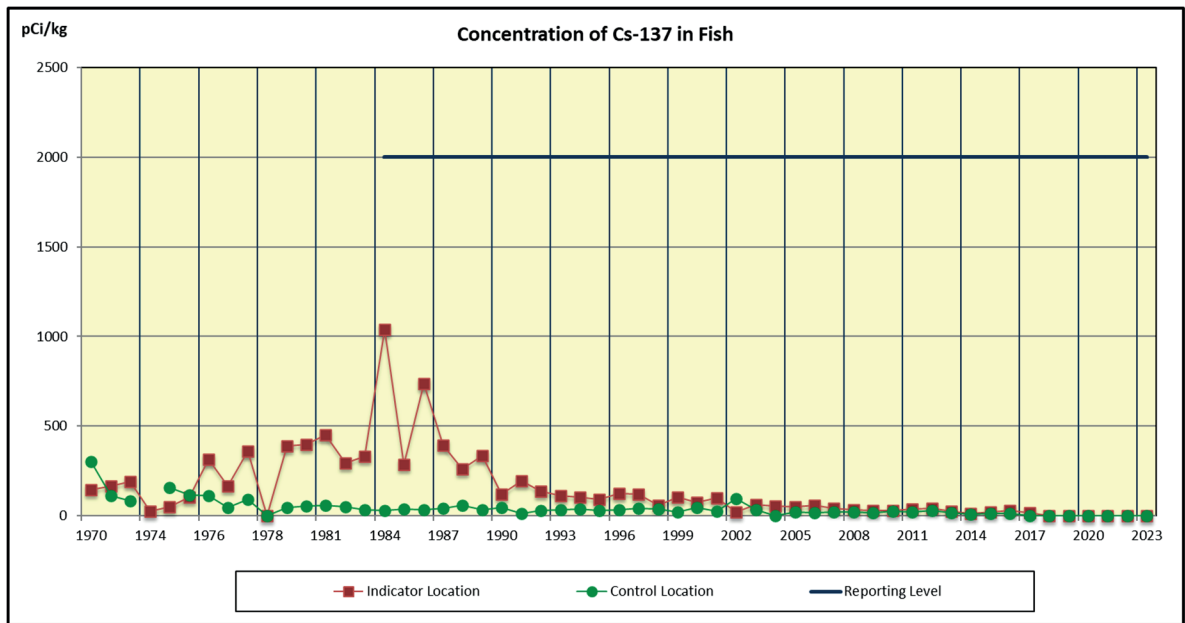
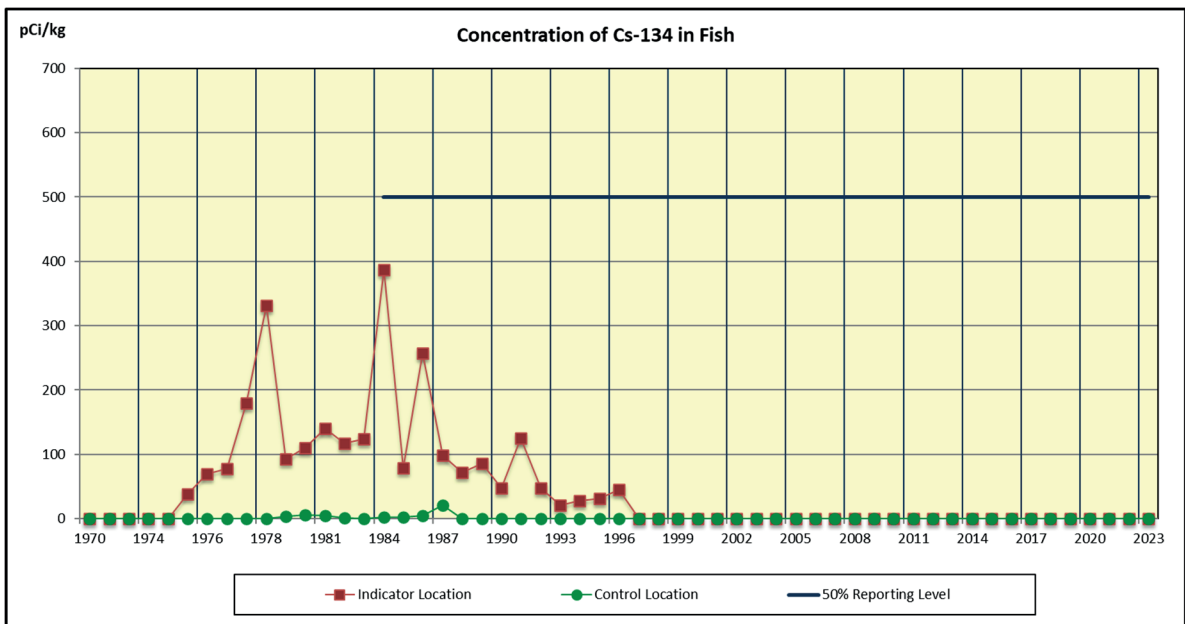


Figure 3.6-2



Current reporting levels implemented 1984

Table 3.6-A Mean Concentrations of Radionuclides in Fish (Preop-2014)

Year	Co-58 (pCi/kg)	Co-60 (pCi/kg)	Cs-134 (pCi/kg)	Cs-137 (pCi/kg)
Preop ending Jan.1971	0.00E0	0.00E0	0.00E0	1.46E2
Preop ending Jan.1973	0.00E0	0.00E0	0.00E0	1.66E2
Feb. 1973 - June 1973	Qualitative results reported-no significant measurements above background			
July 1973 - Dec. 1973	0.00E0	0.00E0	0.00E0	1.89E2
Jan. 1974 - June 1974	0.00E0	0.00E0	0.00E0	2.47E1
July 1974 - Dec. 1974	0.00E0	0.00E0	0.00E0	4.85E1
Jan. 1975 - June 1975	0.00E0	0.00E0	3.81E1	1.05E2
July 1975 - Dec. 1975	8.50E1	0.00E0	7.00E1	3.13E2
1976	5.70E1	1.14E2	7.73E1	1.66E2
1977	0.00E0	0.00E0	1.80E2	3.60E2
1978	3.27E2	0.00E0	3.31E2	0.00E0
1979	1.91E0	1.56E1	9.26E1	3.88E2
1980	1.45E1	1.90E1	1.10E2	3.99E2
1981	2.25E1	1.49E1	1.40E2	4.51E2
1982	9.83E-1	8.03E0	1.17E2	2.94E2
1983	3.35E1	4.53E0	1.24E2	3.32E2
1984	1.21E2	6.23E1	3.87E2	1.04E3
1985	1.62E1	1.10E1	7.93E1	2.85E2
1986	9.56E1	2.59E1	2.57E2	7.36E2
1987 ⁽¹⁾	1.63E2	6.30E1	9.80E1	3.93E2
1988	9.60E1	0.00E0	7.20E1	2.60E2
1989	4.30E1	1.50E1	8.60E1	3.36E2
1990	1.50E1	0.00E0	4.80E1	1.19E2
1991	4.59E1	0.00E0	1.25E2	1.94E2
1992	6.10E1	0.00E0	4.80E1	1.36E2
1993	0.00E0	0.00E0	2.10E1	1.10E2
1994	0.00E0	0.00E0	2.80E1	1.05E2
1995	0.00E0	0.00E0	3.10E1	9.20E1
1996	0.00E0	0.00E0	4.49E1	1.25E2
1997	0.00E0	0.00E0	0.00E0	1.18E2
1998	0.00E0	0.00E0	0.00E0	5.79E1
1999	0.00E0	0.00E0	0.00E0	1.04E2
2000	0.00E0	0.00E0	0.00E0	7.54E1
2001	1.72E1	0.00E0	0.00E0	9.92E1
2002	0.00E0	0.00E0	0.00E0	9.37E1
2003	5.02E1	0.00E0	0.00E0	6.04E1
2004	0.00E0	0.00E0	0.00E0	5.29E1
2005	0.00E0	0.00E0	0.00E0	5.14E1
2006	0.00E0	0.00E0	0.00E0	5.58E1
2007	0.00E0	0.00E0	0.00E0	4.10E1
2008	0.00E0	0.00E0	0.00E0	3.13E1
2009	9.01E0	0.00E0	0.00E0	2.68E1
2010	0.00E0	0.00E0	0.00E0	2.69E1
2011	0.00E0	0.00E0	0.00E0	3.53E1
2012	1.23E2	3.61E1	0.00E0	4.32E1
2013	0.00E0	0.00E0	0.00E0	2.44E1
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	1.40E1

0.00E0 indicates no detectable measurements

1979 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

Table 3.6-B Mean Concentrations of Radionuclides in Fish (2015-2023)

Year	Co-58 (pCi/kg)	Co-60 (pCi/kg)	Cs-134 (pCi/kg)	Cs-137 (pCi/kg)
2015	0.00E0	0.00E0	0.00E0	1.94E1
2016	0.00E0	0.00E0	0.00E0	2.74E1
2017	0.00E0	0.00E0	0.00E0	1.73E1
2018	0.00E0	0.00E0	0.00E0	0.00E0
2019	0.00E0	0.00E0	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	0.00E0	0.00E0	0.00E0
2023	0.00E0	0.00E0	0.00E0	0.00E0

0.00 indicates no detectable measurements

3.7 SHORELINE SEDIMENT

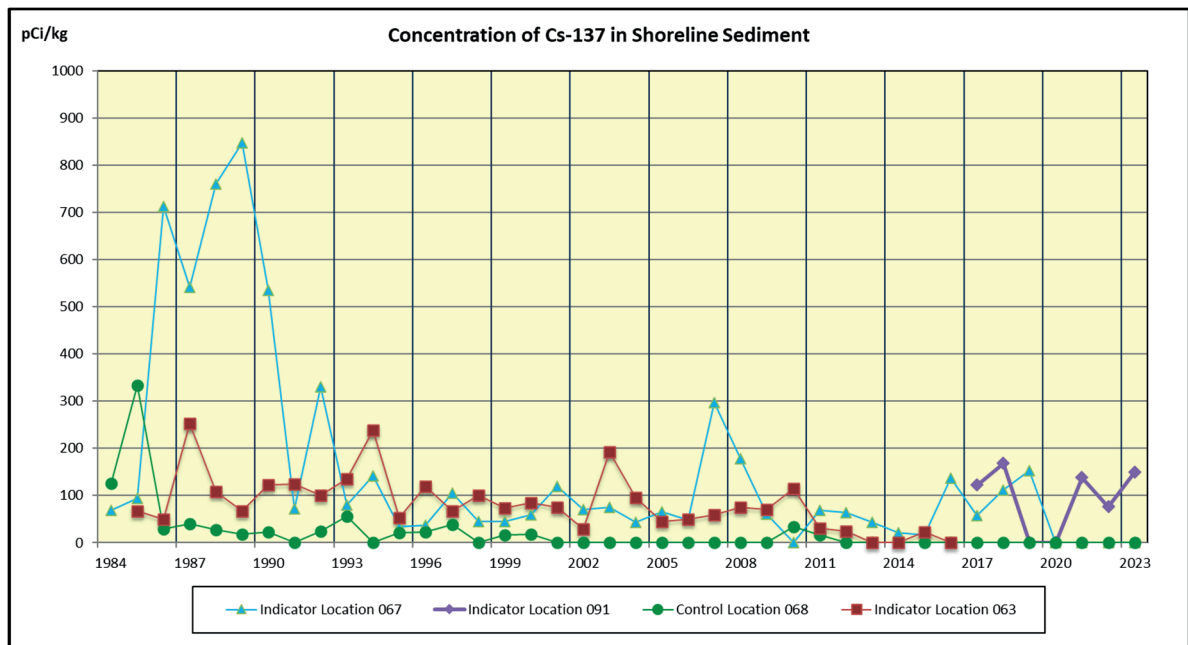
Gamma spectroscopy was performed on six semiannual sediment samples following the drying and removal of rocks and clams. Two downstream indicator locations and one control location were sampled. Four samples were taken from indicator locations and two from the control location.

Cs-137 activity was detected at 149 pCi/kg in one 2023 indicator sample. There was no activity detected in any of the control location samples in 2023. Table 3.7 lists the highest indicator location annual means since shoreline sediment was initiated in 1984. Included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987.

Visual inspection of the tabular data did not reveal any trends. Figure 3.7 is a graph of the Cs-137 annual means. Historically, Cs-137 is a contributor to the calculated dose from liquid effluents from shoreline sediment. No trends are apparent.

K-40 and Be-7 observed in shoreline samples are naturally occurring radionuclides.

Figure 3.7



There are no reporting levels for shoreline sediment

Table 3.7 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

Year	Mn-54	Co-58	Co-60	Zn-65	Cs-134	Cs-137	Ag-110m	Sb-125
1984	1.10E1	1.09E1	1.19E1	0.00E0	7.77E1	5.16E1	0.00E0	0.00E0
1985	9.39E0	1.27E0	4.79E0	0.00E0	7.63E1	9.47E1	0.00E0	0.00E0
1986	2.24E1	1.62E1	2.50E1	0.00E0	1.41E2	7.12E2	0.00E0	0.00E0
1987 ⁽¹⁾	5.40E1	4.70E2	5.07E2	0.00E0	1.01E2	6.22E2	3.46E2	0.00E0
1988	3.30E1	1.20E2	1.87E2	6.70E1	6.60E1	7.59E2	1.62E2	3.67E2
1989	2.30E1	1.24E2	1.96E2	0.00E0	5.40E1	8.48E2	5.50E1	1.86E2
1990	3.40E1	8.00E1	2.59E2	0.00E0	4.50E1	5.36E2	1.71E2	9.00E1
1991	3.26E1	5.60E1	8.57E1	0.00E0	6.91E1	1.24E2	1.10E2	1.78E2
1992	8.79E1	1.79E2	1.12E2	0.00E0	5.60E1	3.31E2	1.69E2	2.08E2
1993	8.20E1	8.20E1	6.50E1	0.00E0	3.20E1	1.36E2	5.63E1	1.11E2
1994	5.30E1	7.00E1	1.49E2	0.00E0	6.70E1	2.38E2	1.04E2	1.29E2
1995	1.43E2	3.90E1	2.40E1	0.00E0	1.10E1	5.20E1	0.00E0	0.00E0
1996	0.00E0	5.10E1	0.00E0	0.00E0	1.98E1	1.19E2	0.00E0	0.00E0
1997	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.06E2	0.00E0	0.00E0
1998	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.01E2	0.00E0	0.00E0
1999	6.96E1	0.00E0	0.00E0	0.00E0	0.00E0	7.38E1	0.00E0	0.00E0
2000	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	8.54E1	0.00E0	0.00E0
2001	0.00E0	2.10E1	0.00E0	0.00E0	0.00E0	1.20E2	0.00E0	0.00E0
2002	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.96E1	0.00E0	0.00E0
2003	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.93E2	0.00E0	0.00E0
2004	8.54E1	0.00E0	0.00E0	0.00E0	0.00E0	9.56E1	0.00E0	0.00E0
2005	2.00E2	0.00E0	0.00E0	0.00E0	0.00E0	6.53E1	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	5.01E1	0.00E0	0.00E0
2007	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.97E2	0.00E0	0.00E0
2008	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.78E2	0.00E0	0.00E0
2009	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.97E1	0.00E0	0.00E0
2010	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.15E2	0.00E0	0.00E0
2011	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.83E1	0.00E0	0.00E0
2012	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.35E1	0.00E0	0.00E0
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	4.37E1	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.11E1	0.00E0	0.00E0
2015	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.24E1	0.00E0	0.00E0
2016	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.36E2	0.00E0	0.00E0
2017	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.22E2	0.00E0	0.00E0
2018	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.68E2	0.00E0	0.00E0
2019	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.52E2	0.00E0	0.00E0
2020	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2021	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2022	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	7.61E1	0.00E0	0.00E0
2023	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.49E2	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were noted due to the 2014 gamma spectroscopy system change.

3.8 DIRECT GAMMA RADIATION

3.8.1 ENVIRONMENTAL TLD

Oconee is licensed with an exclusion area boundary defined by UFSAR Section 2.1.1.2 as a 1 mile radius from station center. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area.

Thermoluminescent dosimeters (TLD) were placed and collected quarterly at the forty-nine locations indicated in Section 2 Table 2.1-B. There are 25 TLD locations, one or more in each meteorological sector, designated as "inner ring" and were placed within exclusion area upon inception of the REMP and all are used as indicators. Due to close proximity with Oconee, inner ring TLD locations are not good indicators of radiation exposure to a member of the public, but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. There were 16 TLD locations, one in each meteorological sector, designated as "outer ring" are outside the 1 mile exclusion area but within a 5 mile radius of station center. All outer ring TLD locations are used as indicators. The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and control locations within a 7 to 13 mile radius from station center. The two "control" locations are greater than 9 miles from station center. These locations were chosen to reduce the probability of influence from Oconee operation on data. The control locations are not used as background subtraction in the TLD analysis. Their purpose is to provide a comparison to indicator locations.

A gamma exposure rate was determined for each TLD. In 2023, 193 total TLDs were collected and analyzed quarterly, 185 at indicator locations and 8 at control locations. Transit and laboratory background exposure are determined and subtracted from gross field readings as required by ANSI N545-1975. Based on Appendix B TLD data, the highest annual exposure was 30.1 mR/Std-Qtr at indicator location 024, 0.81 miles E of station center. Figure 3.8 and Table 3.8 show TLD inner ring, outer ring, and control location annual averages in mR/Std-Qtr. Preoperational data is also provided in the table. As shown in the graph, historical inner and outer ring averages compare similarly, while control data is somewhat higher. This is most likely an artifact of the underlying geologic structures at the control locations.

Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within expected low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The low and high ranges are determined by the historical average $\pm$ two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)". The WP-RP-ALL-0030 –

Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for fleet TLD programs. TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. TLD results are found in Appendix E. There were no TLD results in 2023 that exceeded the < Low Range or > High Range.

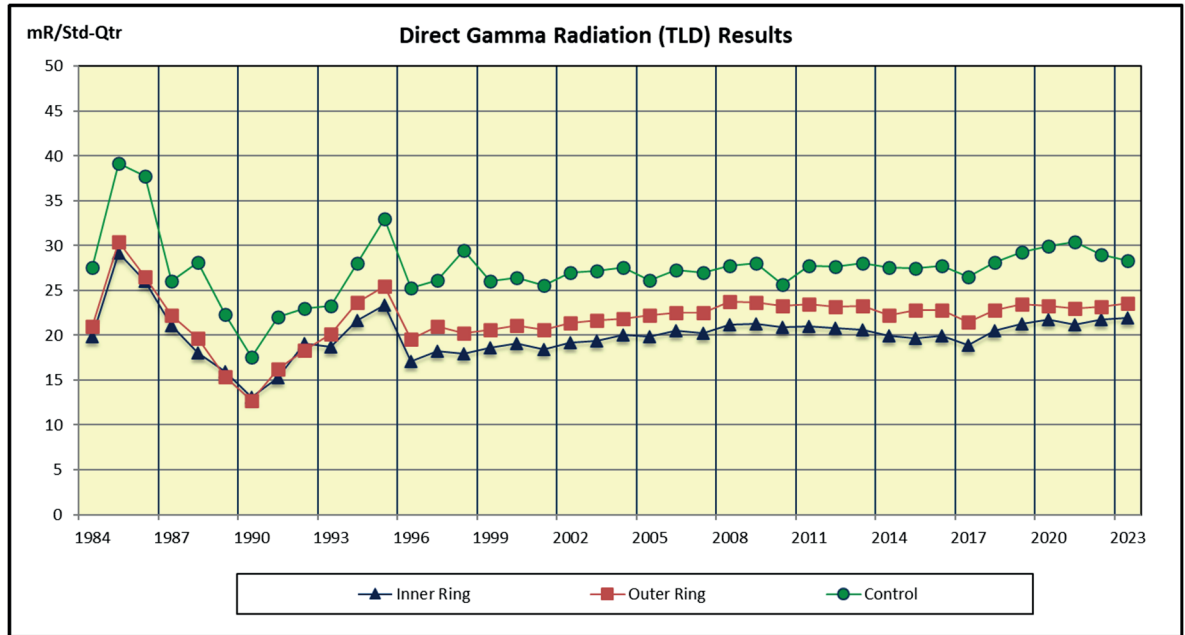
A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 4.7.

3.8.2 ISFSI

The Oconee ISFSI began operation in 1990. It is located 0.25 miles southwest of station center in a secured area specifically constructed to provide dry storage for spent nuclear fuel. The ISFSI employs the NUHOMS® horizontal storage module design. Irradiated fuel assemblies are confined, protected, and shielded by a reinforced concrete module. The system is completely passive and designed to provide shielding and safe confinement of spent fuel for a range of postulated accident conditions and natural phenomena. Decay heat is removed from the module by a passive ventilation system. No radiological liquid or gaseous effluents are expected from the passive storage provided by the ISFSI. Therefore, any exposure to offsite locations would be from direct and scattered gamma radiation.

The Oconee REMP serves as the operational program for the ISFSI. Several environmental TLD locations are presently located at the Oconee site boundary fence near the ISFSI. The closest of these is 0.3 miles from the ISFSI, well within the 1 mile exclusion boundary. In addition, exposure rates at the ISFSI restricted area fence are monitored with TLDs as part of the routine REMP. These are used, in part, to control occupational exposure and augment the REMP according to the Oconee ISFSI UFSAR. The maximum TLD exposure at the ISFSI fence, which is not accessible to the public, was 467 mR/Std-Qtr. This is consistent with previous measurements.

Figure 3.8



There is no reporting level for Direct Radiation (TLD)

Table 3.8 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/Std-Qtr)	Outer Ring Average (mR/Std-Qtr)	Control Average (mR/Std-Qtr)
Preoperational	2.82E1	3.11E1	3.72E1
1984	1.99E1	2.10E1	2.71E1
1985	2.92E1	3.04E1	3.92E1
1986	2.61E1	2.65E1	3.77E1
1987	2.11E1	2.22E1	2.61E1
1988	1.81E1	1.97E1	2.82E1
1989	1.59E1	1.54E1	2.24E1
1990	1.31E1	1.27E1	1.75E1
1991	1.53E1	1.63E1	2.22E1
1992	1.91E1	1.83E1	2.30E1
1993	1.87E1	2.02E1	2.33E1
1994	2.17E1	2.37E1	2.80E1
1995	2.34E1	2.54E1	3.30E1
1996	1.71E1	1.96E1	2.53E1
1997	1.82E1	2.10E1	2.61E1
1998	1.79E1	2.02E1	2.95E1
1999	1.86E1	2.06E1	2.60E1
2000	1.91E1	2.11E1	2.64E1
2001	1.84E1	2.06E1	2.56E1
2002	1.92E1	2.13E1	2.70E1
2003	1.94E1	2.17E1	2.72E1
2004	2.00E1	2.19E1	2.76E1
2005	1.98E1	2.23E1	2.62E1
2006	2.05E1	2.26E1	2.73E1
2007	2.03E1	2.25E1	2.70E1
2008	2.12E1	2.38E1	2.78E1
2009	2.13E1	2.36E1	2.80E1
2010	2.09E1	2.33E1	2.57E1
2011	2.10E1	2.35E1	2.78E1
2012	2.08E1	2.31E1	2.76E1
2013	2.06E1	2.33E1	2.80E1
2014	1.99E1	2.23E1	2.75E1
2015	1.97E1	2.28E1	2.75E1
2016	2.00E1	2.28E1	2.78E1
2017	1.89E1	2.15E1	2.65E1
2018	2.05E1	2.28E1	2.81E1
2019	2.12E1	2.34E1	2.93E1
2020	2.17E1	2.33E1	3.30E1
2021	2.12E1	2.30E1	3.04E1
2022	2.18E1	2.32E1	2.90E1
2023	2.20E1	2.36E1	2.83E1

3.9 LAND USE CENSUS

The Land Use Census was conducted during the growing season (5/23/2023) as required by SLC 16.11.6. The nearest Residence and milk-giving animal (cow, goat, etc.), where milk is used for human consumption, were identified within a distance of 8 kilometers (5.0 miles) from the station and in each of the sixteen meteorological sectors.

Table 3.9 summarizes census results. A map indicating identified locations is shown in Figure 3.9. The nearest residence is located in the NNW sector at 1.03 miles, and there were no changes required to the REMP.

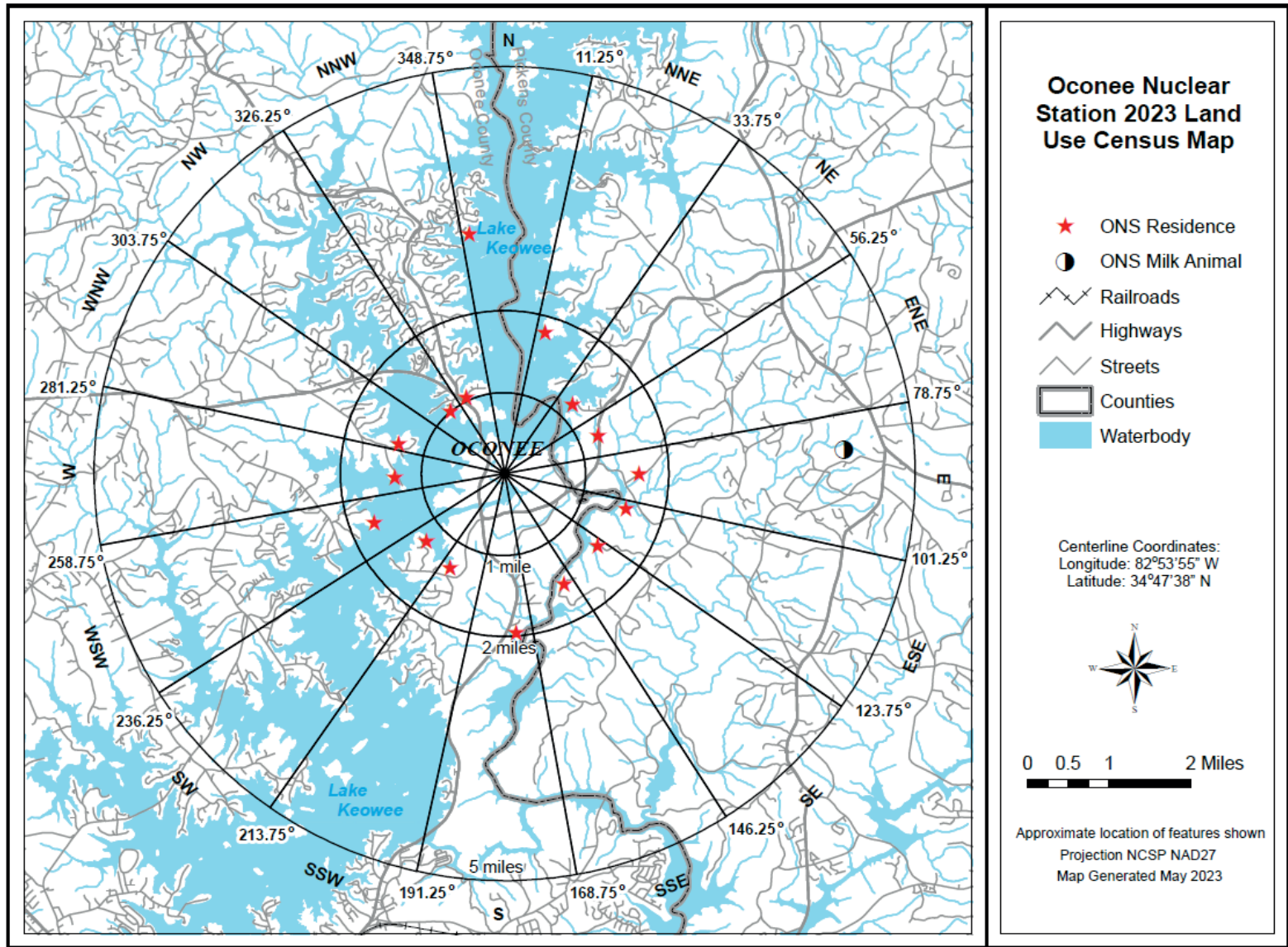
Table 3.9 Oconee 2023 Land Use Census Results

Nearest Pathways (Miles)

SECTOR	RESIDENCE		MILK ANIMAL	
	2022	2023	2022	2023
North	2.98	2.98	---	---
North-Northeast	1.80	1.80	---	---
Northeast	1.20	1.20	---	---
East-Northeast	1.24	1.24	---	---
East	1.64	1.64	4.18	4.18
East-Southeast	1.57	1.57	---	---
Southeast	1.46	1.46	---	---
South-Southeast	1.54	1.54	---	---
South	1.96	1.96	---	---
South-Southwest	1.34	1.34	---	---
Southwest	1.27	1.27	---	---
West-Southwest	1.73	1.73	---	---
West	1.35	1.35	---	---
West-Northwest	1.35	1.35	---	---
Northwest	1.04	1.04	---	---
North-Northwest	1.03	1.03	---	---

NOTE: Sector and distances were determined by Global Positioning System
 --- Indicates no occurrences within the 5 mile radius

Figure 3.9



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

EnRad Laboratories and the Environmental Services Group performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center. During 2023, a vendor laboratory, General Engineering Laboratory, LLC (GEL), performed some environmental analyses as specified by approved analysis procedures.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include tritium analyses in drinking water, and surface water; beta analysis in drinking water samples, and Low-Level Iodine-131 analysis in milk samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 INTERCOMPARISON PROGRAM

Oconee Nuclear Station routinely participates in an environmental sample intercomparison program. Program elements include sampling frequency and analysis parameters for drinking water, surface water, milk, fish, broadleaf vegetation, and shoreline sediment samples that have been collected. Samples are routinely split with a vendor laboratory for intercomparison analysis.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

4.8 GENERAL ENGINEERING LABORATORY, LLC (GEL)

General Engineering Laboratory, LLC (GEL) participated in various Quality Assurance Programs for Inter-laboratory, Intra-laboratory, Third Party Cross Check programs, and a number of proficiency testing programs during 2023. A summary of the GEL quality assurance program results for the sample media types sent to GEL during 2023 is documented in Table 4.0-C.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

TABLE 4.0-C

2023 General Engineering Laboratories (GEL), LLC QA Results

Interlaboratory cross check samples from Eckert & Ziegler Analytics (EZA) were received and analyzed by GEL in all four quarters of 2023 from EZA. Table 4.0-C lists the performance for specific samples.

Sample	Sample ID	Nuclide	Quarter	Units	GEL Value	Known Value	Acceptance Range/Ratio	Evaluation
I-131 in Milk with EZA	E13853	I-131	1	pCi/L	89.3	82.0	1.09	Agreement
	E13891	I-131	2	pCi/L	81.8	74.4	1.10	Agreement
	E13895	I-131	3	pCi/L	42.1	37.4	1.13	Agreement
	E13899	I-131	4	pCi/L	44.0	40.0	1.10	Agreement

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at Oconee Nuclear Station is required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records and Environmental Services.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section.

I. CHANGE OF SAMPLING PROCEDURES

There were not changes to sampling procedures in 2023.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) and then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly, before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or a Perkin-Elmer 3110TR liquid scintillation system. Tritium samples are distilled, and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance, sample preparation technique are acceptable, and sample contamination has not occurred.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a laboratory fortified blank and blank to verify instrument performance and ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

There were no changes to analysis procedures during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2023

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 260 ⁽⁴⁾	See Table 2.2-C	2.43E-02 (208/208) 8.26E-03 – 4.90E-02	077 (1.00 mi SW)	2.48E-02 (52/52) 1.06E-02 – 4.38E-02	093 (9.34 mi SE) 2.50E-02 (52/52) 1.18E-02 – 4.76E-02	0
	Gamma 20 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 260 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 39	See Table 2.2-C	3.39E+00 (2/26) 3.38E+00 – 3.40E+00	060 (3.23 mi NE)	3.39E+00 (2/13) 3.38E+00 – 3.40E+00	All less than LLD	0
	Gamma 39	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 12 ⁽⁶⁾	See Table 2.2-C	2.86E+02 (3/8) 2.17E+02 – 3.55E+02	066 (18.9 mi SSE)	2.86E+02 (3/4) 2.17E+02 – 3.55E+02	All less than LLD	0
Surface Water (pCi/l)	Gamma 26 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 8 ⁽⁶⁾	See Table 2.2-C	1.10E+04 (4/4) 2.01E+03 – 2.73E+04	063.1 (0.79 mi E)	1.10E+04 (4/4) 2.01E+03 – 2.73E+04	All less than LLD	0

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Milk (pCi/l)	Gamma 36 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	I-131 36 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma 36	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Sediments--Shoreline (pCi/kg, dry)	Gamma 6	See Table 2.2-C	-----	-----	-----	All less than LLD	0
	Cs-137	See Table 2.2-C	1.49E+02 (1/4) 1.49E+02 – 1.49E+02	091 (2.09 mi S)	1.49E+02 (1/2) 1.49E+02 – 1.49E+02	All less than LLD	
TLD (mR per STD-quarter) ⁽⁵⁾	TLD Readout 193 ⁽⁴⁾	-----	2.26E+01 (185/185) 1.50E+01 – 3.51E+01	024 (0.81 mi E)	3.01E+01 (4/4) 2.68E+01 – 3.51E+01	058 (9.39 mi WSW) 093 (9.34 mi SE) 2.83E+01 (8/8) 2.18E+01 – 3.35E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).
6. Quarterly tritium composites determined using quarter days (92 days +/- 25% (23 days)).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

OCONEE NUCLEAR STATION SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The air samplers operated for a total of 99.79% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
078.1	2/20 – 2/27/2023	PI	9.25 hours downtime, power interruption due to tripped breaker. The breaker was reset.	NCR # 02462977
078.1	2/27 – 3/6/2023	PI	8.78 hours downtime, power interruption due to tripped breaker. The breaker was reset.	NCR # 02463918
079	8/7 – 8/14/2023	PI	18.85 hours downtime, power interruption due to storm tripping breaker. The breaker was replaced due to being unable to reset.	NCR # 02483102
078.1	12/18-12/27/2023	PI	41.60 hours downtime, power interruption due tripped breaker. The breaker was reset.	NCR # 02499472
078.1	12/27/23 – 1/2/2024	PI	14.20 hours downtime, power interruption due tripped breaker. The breaker was reset.	NCR # 02499666

Drinking Water and Surface Water

REMP monthly drinking water samples (Drinking Water (DW)) or surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The drinking and surface water samplers operated for a total of 99.66% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
062	5/15 – 6/12/2023	PI	Downtime was unable to be determined, due to power to the submersible pump being disconnected. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance. A grab sample was obtained. A work request was submitted to restore power and to prime the submersible pump, restoring normal sampling.	NCR # 02475826
062	6/12 – 7/10/2023	PI	46.22 hours downtime. Submersible pump out of service from previous collection. A work request was submitted to restore power and prime the submersible pump. Power to the pump was restored and the pump was primed about two days later, restoring normal sampling.	NCR # 02478886
063.1	8/7 – 9/5/2023	PS	Downtime was unable to be determined, due to the submersible pump out being out of service. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance. A work request was written to repair submersible pump, restoring normal sampling.	NCR # 02485915
063.1	9/5 – 10/2/2023	PS	51.8 hours downtime due to submersible pump out of service from previous collection. Submersible pump was repaired, and flow was restored, restoring normal sampling.	NCR # 02489161
063.1	10/2 – 10/30/2023	PS	Downtime was unable to be determined, due to the submersible pump out being out of service. There was enough water in the composite sampler to fulfill sampling requirements, so there is no missed surveillance. Work Request was submitted, and pump was restarted, restoring normal sampling.	NCR # 02492961
063.1	10/30 – 11/27/2023	PS	53.87 hours downtime. Submersible pump was out of service at time of arrival on 30OCT2023. A grab sample was obtained. A work request was written to repair submersible pump, restoring normal sampling on 1NOV2023.	NCR # 02496081

C.2 UNAVAILABLE ANALYSES

Direct Gamma Radiation (TLD)

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
056	12/13/2022-3/14/2023	VN	Alpha TLD was missing and Bravo TLD was found on the ground. Since Alpha and Bravo TLDs were not at their assigned locations at the time of collection, it is considered Unavailable.	NCR # 02464777
038	9/19 – 12/19/2023	OT	Alpha and Bravo TLDs were missing due to the sign being replaced.	NCR # 02498767
090	9/19 – 12/19/2023	CN	Alpha and Bravo TLDs were missing due to construction in the area.	NCR # 02498768

Milk

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
061	1/3/2023 1/17/2023 1/30/2023 2/13/2023	SU	Milk was unavailable due to goats being out of season.	NCR # 02462724
061	7/17/2023	OT	Milk was unavailable due to goats not producing enough milk to support the REMP.	NCR # 02479510

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

OCONEE NUCLEAR STATION ANALYTICAL DEVIATIONS

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

D.1 ANALYTICAL DEVIATIONS

Oconee environmental Alpha (A) and Bravo (B) TLDs are co-located TLDs placed next to each other to comply with ANSI/HPS N13.37-2014 Section 7.1 Paragraph 7. The TLD collection indicated incurred tampering/vandalism with one of the two co-located TLDs. One TLD for each collection was available and did not appear to have experienced any tampering/vandalism during the quarter. The remaining Alpha (A) TLD was collected and analyzed, but did not get averaged with the unusable Bravo (B) TLD which is normally included in the established process for the Oconee.

Direct Gamma Radiation (TLD)

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
092	3/14 – 6/20/2023	VN	The Bravo TLD 092 was missing at the time of collection due to vandalism, Alpha TLD was collected and analyzed.	NCR # 02476881

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2023

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	582717	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.61E-03	3.83E-03
Sample ID:	583012	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	2.99E-03	2.92E-03
Sample ID:	583192	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.28E-02	2.97E-03	3.78E-03
Sample ID:	583542	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	3.05E-03	3.49E-03
Sample ID:	584270	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.27E-03	3.45E-03
Sample ID:	584975	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.27E-03	3.53E-03
Sample ID:	585406	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	2.95E-03	2.88E-03
Sample ID:	585609	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	3.01E-03	3.40E-03
Sample ID:	585862	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.83E-03	2.92E-03
Sample ID:	586122	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.07E-03	3.35E-03
Sample ID:	586725	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.09E-03	3.39E-03
Sample ID:	586981	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.10E-03	2.84E-03
Sample ID:	587240	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.77E-02	3.44E-03	3.27E-03
Sample ID:	587504	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.10E-03	0.00E+00	2.10E-03
				Cs-137	<1.51E-03	0.00E+00	1.51E-03
				Be-7	1.53E-01	5.43E-02	3.48E-02
				K-40	2.76E-02	1.69E-02	2.05E-02
Sample ID:	587499	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	2.83E-03	2.93E-03
Sample ID:	587825	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.11E-03	3.28E-03
Sample ID:	588352	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.10E-03	2.78E-03
Sample ID:	588638	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.56E-03	2.57E-03
Sample ID:	589593	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.85E-03	2.99E-03
Sample ID:	589858	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.73E-03	3.07E-03
Sample ID:	590065	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.89E-03	3.55E-03
Sample ID:	590400	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.58E-03	2.65E-03
Sample ID:	590535	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	3.19E-03	3.87E-03
Sample ID:	590697	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.37E-03	2.94E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	591248	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.20E-03	3.11E-03
Sample ID:	591488	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.06E-02	2.50E-03	3.13E-03
Sample ID:	591670	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.21E-03	3.39E-03
Sample ID:	591893	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.60E-03	0.00E+00	1.60E-03
				Cs-137	<1.18E-03	0.00E+00	1.18E-03
				Be-7	1.54E-01	3.46E-02	2.24E-02
				K-40	1.98E-02	1.47E-02	1.94E-02
Sample ID:	591888	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	3.33E-03	3.33E-03
Sample ID:	592238	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.18E-03	3.14E-03
Sample ID:	592456	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.95E-02	3.59E-03	3.46E-03
Sample ID:	593051	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.49E-02	3.65E-03	3.11E-03
Sample ID:	593220	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	3.19E-03	3.03E-03
Sample ID:	593611	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.04E-03	3.30E-03
Sample ID:	593854	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	2.98E-03	2.76E-03
Sample ID:	594329	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.38E-02	4.07E-03	3.36E-03
Sample ID:	594841	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	2.63E-03	2.20E-03
Sample ID:	595044	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.67E-02	3.30E-03	3.13E-03
Sample ID:	595687	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.21E-02	3.58E-03	3.29E-03
Sample ID:	596440	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.98E-02	3.49E-03	2.66E-03
Sample ID:	596830	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	2.79E-03	2.84E-03
Sample ID:	597351	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.15E-01	3.85E-02	4.59E-02
				K-40	4.16E-02	1.86E-02	1.64E-02
Sample ID:	597346	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.07E-03	2.67E-03
Sample ID:	597914	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.51E-02	3.80E-03	3.40E-03
Sample ID:	598258	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	3.13E-03	3.65E-03
Sample ID:	598911	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.87E-02	3.08E-03	2.76E-03
Sample ID:	599110	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.24E-02	3.65E-03	3.33E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	599513	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.32E-02	4.07E-03	3.34E-03
Sample ID:	600353	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.67E-02	3.35E-03	2.58E-03
Sample ID:	601168	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.19E-03	3.38E-03
Sample ID:	601330	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.29E-03	2.67E-03
Sample ID:	601832	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.35E-03	3.10E-03
Sample ID:	602307	Sample Dates:	12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	3.27E-03	3.14E-03
Sample ID:	602552	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	2.73E-03	2.46E-03
Sample ID:	602759	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.52E-03	3.28E-03
Sample ID:	603003	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.80E-03	0.00E+00	1.80E-03
				Cs-137	<1.78E-03	0.00E+00	1.78E-03
				Be-7	1.30E-01	3.23E-02	2.12E-02
				K-40	<2.98E-02	0.00E+00	2.98E-02

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	582718	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.49E-03	3.83E-03
Sample ID:	583013	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.05E-03	2.93E-03
Sample ID:	583193	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	3.19E-03	3.78E-03
Sample ID:	583543	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.16E-03	3.49E-03
Sample ID:	584271	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.98E-03	3.45E-03
Sample ID:	584976	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.02E-03	3.53E-03
Sample ID:	585407	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	2.84E-03	2.88E-03
Sample ID:	585610	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	3.15E-03	3.59E-03
Sample ID:	585863	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.06E-03	3.07E-03
Sample ID:	586123	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.01E-03	3.35E-03
Sample ID:	586726	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.09E-03	3.39E-03
Sample ID:	586982	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.66E-02	3.27E-03	2.84E-03
Sample ID:	587241	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.40E-03	3.27E-03
Sample ID:	587505	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.78E-03	0.00E+00	1.78E-03
				Cs-137	<1.34E-03	0.00E+00	1.34E-03
				Be-7	1.75E-01	3.66E-02	1.89E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	587505	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<3.06E-02	0.00E+00	3.06E-02
Sample ID:	587500	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.77E-03	2.93E-03
Sample ID:	587826	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.08E-03	3.28E-03
Sample ID:	588353	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.18E-02	3.22E-03	2.78E-03
Sample ID:	588639	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.61E-03	2.57E-03
Sample ID:	589594	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.77E-03	2.99E-03
Sample ID:	589859	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.75E-03	3.07E-03
Sample ID:	590066	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.97E-03	3.55E-03
Sample ID:	590401	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.65E-03	2.65E-03
Sample ID:	590536	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	3.34E-03	3.86E-03
Sample ID:	590698	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.99E-02	3.42E-03	2.94E-03
Sample ID:	591249	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.21E-03	3.11E-03
Sample ID:	591489	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.17E-02	2.56E-03	3.13E-03
Sample ID:	591671	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.20E-03	3.39E-03
Sample ID:	591894	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.04E-03	0.00E+00	2.04E-03
				Cs-137	<1.34E-03	0.00E+00	1.34E-03
				Be-7	1.53E-01	3.69E-02	3.19E-02
				K-40	<3.79E-02	0.00E+00	3.79E-02
Sample ID:	591889	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.35E-03	3.33E-03
Sample ID:	592239	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	3.27E-03	3.15E-03
Sample ID:	592457	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	3.51E-03	3.43E-03
Sample ID:	593052	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.80E-02	3.80E-03	3.14E-03
Sample ID:	593221	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.32E-03	3.03E-03
Sample ID:	593612	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.08E-03	3.30E-03
Sample ID:	593855	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.94E-02	3.10E-03	2.74E-03
Sample ID:	594330	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.90E-02	4.26E-03	3.38E-03
Sample ID:	594842	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	2.67E-03	2.20E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	595045	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.36E-03	3.12E-03
Sample ID:	595688	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.35E-02	3.65E-03	3.30E-03
Sample ID:	596441	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.10E-02	3.53E-03	2.65E-03
Sample ID:	596831	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.80E-03	2.84E-03
Sample ID:	597352	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.61E-03	0.00E+00	1.61E-03
				Cs-137	<1.32E-03	0.00E+00	1.32E-03
				Be-7	1.33E-01	3.70E-02	3.80E-02
				K-40	1.29E-02	1.46E-02	2.31E-02
Sample ID:	597347	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.15E-03	2.67E-03
Sample ID:	597915	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.21E-02	3.69E-03	3.41E-03
Sample ID:	598259	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	3.01E-03	3.63E-03
Sample ID:	598912	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	2.92E-03	2.77E-03
Sample ID:	599111	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.37E-03	3.33E-03
Sample ID:	599514	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.19E-02	3.63E-03	3.34E-03
Sample ID:	600354	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.05E-02	3.12E-03	2.59E-03
Sample ID:	601169	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	3.02E-03	3.38E-03
Sample ID:	601331	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.99E-02	3.11E-03	2.67E-03
Sample ID:	601833	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.31E-03	3.10E-03
Sample ID:	602308	Sample Dates:	12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.04E-03	3.14E-03
Sample ID:	602553	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.03E-03	3.04E-03
Sample ID:	602760	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.47E-03	3.63E-03
Sample ID:	603004	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.83E-03	0.00E+00	1.83E-03
				Cs-137	<1.37E-03	0.00E+00	1.37E-03
				Be-7	1.27E-01	3.35E-02	2.79E-02
				K-40	<3.76E-02	0.00E+00	3.76E-02

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	582719	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.57E-03	3.83E-03
Sample ID:	583014	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.77E-03	2.93E-03
Sample ID:	583194	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	3.02E-03	3.76E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	583544	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.04E-03	3.50E-03
Sample ID:	584272	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.98E-03	3.44E-03
Sample ID:	584977	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	3.03E-03	3.53E-03
Sample ID:	585408	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.70E-03	2.87E-03
Sample ID:	585611	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.94E-03	3.39E-03
Sample ID:	585864	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.84E-03	2.92E-03
Sample ID:	586124	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.92E-03	3.32E-03
Sample ID:	586727	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.10E-03	3.40E-03
Sample ID:	586983	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.93E-03	2.85E-03
Sample ID:	587242	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.67E-02	3.39E-03	3.27E-03
Sample ID:	587506	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.65E-03	0.00E+00	1.65E-03
				Cs-137	<1.36E-03	0.00E+00	1.36E-03
				Be-7	1.36E-01	3.32E-02	2.55E-02
				K-40	3.75E-02	1.63E-02	4.62E-03
Sample ID:	587501	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.89E-03	2.93E-03
Sample ID:	587827	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.09E-03	3.28E-03
Sample ID:	588354	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.81E-02	3.09E-03	2.79E-03
Sample ID:	588640	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	2.68E-03	2.57E-03
Sample ID:	589595	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.83E-03	2.99E-03
Sample ID:	589860	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.77E-03	3.06E-03
Sample ID:	590067	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.87E-03	3.56E-03
Sample ID:	590402	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.51E-03	2.65E-03
Sample ID:	590537	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	3.13E-03	3.86E-03
Sample ID:	590699	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.24E-03	2.93E-03
Sample ID:	591250	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.18E-03	3.10E-03
Sample ID:	591490	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.26E-03	2.35E-03	3.13E-03
Sample ID:	591672	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.14E-03	3.41E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 591895	Sample Dates: 4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.65E-03	0.00E+00	1.65E-03
		Cs-137	<1.05E-03	0.00E+00	1.05E-03
		Be-7	1.58E-01	3.62E-02	2.70E-02
		K-40	3.54E-02	1.68E-02	1.40E-02
Sample ID: 591890	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.35E-02	3.20E-03	3.30E-03
Sample ID: 592240	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.39E-02	3.21E-03	3.16E-03
Sample ID: 592458	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.69E-02	3.46E-03	3.44E-03
Sample ID: 593053	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.36E-02	3.62E-03	3.14E-03
Sample ID: 593222	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.32E-02	3.10E-03	3.01E-03
Sample ID: 593613	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.96E-02	3.33E-03	3.75E-03
Sample ID: 593856	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.20E-02	2.79E-03	2.74E-03
Sample ID: 594331	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.88E-02	3.89E-03	3.38E-03
Sample ID: 594843	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.32E-02	2.55E-03	2.19E-03
Sample ID: 595046	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.85E-02	3.39E-03	3.14E-03
Sample ID: 595689	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.06E-02	3.51E-03	3.27E-03
Sample ID: 596442	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.51E-02	3.33E-03	2.67E-03
Sample ID: 596832	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.15E-02	2.81E-03	2.84E-03
Sample ID: 597353	Sample Dates: 7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.07E-03	0.00E+00	2.07E-03
		Cs-137	<1.48E-03	0.00E+00	1.48E-03
		Be-7	9.80E-02	3.52E-02	4.32E-02
		K-40	3.74E-02	1.62E-02	4.60E-03
Sample ID: 597348	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.71E-02	2.99E-03	2.67E-03
Sample ID: 597916	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.63E-02	3.87E-03	3.43E-03
Sample ID: 598260	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.86E-02	3.13E-03	3.62E-03
Sample ID: 598913	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.92E-02	3.10E-03	2.75E-03
Sample ID: 599112	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.32E-02	3.69E-03	3.34E-03
Sample ID: 599515	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.58E-02	3.78E-03	3.35E-03
Sample ID: 600355	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.13E-02	3.16E-03	2.59E-03
Sample ID: 601170	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.27E-02	3.20E-03	3.37E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	601332	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.81E-02	3.43E-03	2.68E-03
Sample ID:	601834	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.27E-03	3.10E-03
Sample ID:	602309	Sample Dates:	12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.36E-03	3.14E-03
Sample ID:	602554	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	2.72E-03	2.46E-03
Sample ID:	602761	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.57E-03	3.28E-03
Sample ID:	603005	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.03E-03	0.00E+00	2.03E-03
				Cs-137	<1.27E-03	0.00E+00	1.27E-03
				Be-7	1.12E-01	3.65E-02	4.13E-02
				K-40	<3.63E-02	0.00E+00	3.63E-02

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	582720	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.47E-03	3.83E-03
Sample ID:	583015	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.03E-03	2.93E-03
Sample ID:	583195	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.99E-03	3.78E-03
Sample ID:	583545	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.14E-03	3.48E-03
Sample ID:	584273	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.96E-03	3.45E-03
Sample ID:	584978	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	3.10E-03	3.53E-03
Sample ID:	585409	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	2.91E-03	2.88E-03
Sample ID:	585612	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.13E-03	3.38E-03
Sample ID:	585865	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.83E-03	2.92E-03
Sample ID:	586125	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.10E-03	3.34E-03
Sample ID:	586728	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.16E-03	3.40E-03
Sample ID:	586984	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.29E-03	2.84E-03
Sample ID:	587243	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.36E-03	3.27E-03
Sample ID:	587507	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.96E-03	0.00E+00	1.96E-03
				Cs-137	<1.50E-03	0.00E+00	1.50E-03
				Be-7	1.54E-01	3.78E-02	3.47E-02
				K-40	<3.36E-02	0.00E+00	3.36E-02
Sample ID:	587502	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	2.82E-03	2.93E-03
Sample ID:	587828	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.10E-03	3.28E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	588355	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.01E-02	3.15E-03	2.78E-03
Sample ID:	588641	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.63E-03	2.57E-03
Sample ID:	589596	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.77E-03	2.99E-03
Sample ID:	589861	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.78E-03	3.07E-03
Sample ID:	590068	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	3.05E-03	3.55E-03
Sample ID:	590403	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.60E-03	2.65E-03
Sample ID:	590538	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.25E-03	3.86E-03
Sample ID:	590700	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.44E-03	2.94E-03
Sample ID:	591251	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.15E-03	3.10E-03
Sample ID:	591491	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.12E-02	2.53E-03	3.13E-03
Sample ID:	591673	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.23E-03	3.40E-03
Sample ID:	591896	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.49E-03	0.00E+00	1.49E-03
				Cs-137	<1.98E-03	0.00E+00	1.98E-03
				Be-7	1.66E-01	3.68E-02	2.57E-02
				K-40	<3.25E-02	0.00E+00	3.25E-02
Sample ID:	591891	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.08E-03	3.32E-03
Sample ID:	592241	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.29E-03	3.14E-03
Sample ID:	592459	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.24E-03	3.44E-03
Sample ID:	593054	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.68E-02	3.75E-03	3.14E-03
Sample ID:	593223	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.16E-03	3.03E-03
Sample ID:	593614	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.85E-03	3.30E-03
Sample ID:	593857	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	2.97E-03	2.74E-03
Sample ID:	594332	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.22E-02	4.03E-03	3.38E-03
Sample ID:	594844	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	2.53E-03	2.20E-03
Sample ID:	595047	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.40E-03	3.12E-03
Sample ID:	595690	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.48E-02	3.70E-03	3.30E-03
Sample ID:	596443	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.82E-02	3.43E-03	2.65E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	596833	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.83E-03	2.84E-03
Sample ID:	597354	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.19E-03	0.00E+00	2.19E-03
				Cs-137	<1.05E-03	0.00E+00	1.05E-03
				Be-7	1.33E-01	3.40E-02	2.72E-02
				K-40	<4.10E-02	0.00E+00	4.10E-02
Sample ID:	597349	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	2.97E-03	2.67E-03
Sample ID:	597917	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.23E-02	3.69E-03	3.41E-03
Sample ID:	598261	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	3.04E-03	3.63E-03
Sample ID:	598914	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.78E-02	3.05E-03	2.77E-03
Sample ID:	599113	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.73E-03	3.33E-03
Sample ID:	599516	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.36E-02	4.09E-03	3.34E-03
Sample ID:	600356	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.46E-02	3.28E-03	2.59E-03
Sample ID:	601171	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.13E-03	3.38E-03
Sample ID:	601333	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.04E-02	3.50E-03	2.67E-03
Sample ID:	601835	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.40E-03	3.10E-03
Sample ID:	602310	Sample Dates:	12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.21E-03	3.14E-03
Sample ID:	602555	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	2.85E-03	2.46E-03
Sample ID:	602762	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.51E-03	3.27E-03
Sample ID:	603006	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.81E-03	0.00E+00	1.81E-03
				Cs-137	<1.48E-03	0.00E+00	1.48E-03
				Be-7	1.04E-01	4.00E-02	5.22E-02
				K-40	4.61E-02	2.13E-02	2.32E-02

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID:	582721	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.58E-03	3.83E-03
Sample ID:	583016	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.79E-03	2.92E-03
Sample ID:	583196	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.36E-02	3.03E-03	3.80E-03
Sample ID:	583546	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.95E-03	3.48E-03
Sample ID:	584274	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.94E-03	3.45E-03
Sample ID:	584979	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.98E-03	3.52E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID:	585410	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	2.85E-03	2.88E-03
Sample ID:	585613	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	3.03E-03	3.40E-03
Sample ID:	585866	Sample Dates:	2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.97E-03	2.91E-03
Sample ID:	586126	Sample Dates:	3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.10E-03	3.37E-03
Sample ID:	586729	Sample Dates:	3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.15E-03	3.37E-03
Sample ID:	586985	Sample Dates:	3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.28E-03	2.84E-03
Sample ID:	587244	Sample Dates:	3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.44E-03	3.26E-03
Sample ID:	587508	Sample Dates:	1/3/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.83E-03	0.00E+00	1.83E-03
				Cs-137	<1.07E-03	0.00E+00	1.07E-03
				Be-7	1.88E-01	4.11E-02	3.28E-02
				K-40	2.82E-02	1.81E-02	2.32E-02
Sample ID:	587503	Sample Dates:	4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	2.92E-03	2.95E-03
Sample ID:	587829	Sample Dates:	4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	3.05E-03	3.27E-03
Sample ID:	588356	Sample Dates:	4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.15E-02	3.21E-03	2.78E-03
Sample ID:	588642	Sample Dates:	4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	2.56E-03	2.57E-03
Sample ID:	589597	Sample Dates:	5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.83E-03	2.99E-03
Sample ID:	589862	Sample Dates:	5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.86E-03	3.07E-03
Sample ID:	590069	Sample Dates:	5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	3.02E-03	3.54E-03
Sample ID:	590404	Sample Dates:	5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.43E-03	2.64E-03
Sample ID:	590539	Sample Dates:	5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.43E-03	3.87E-03
Sample ID:	590701	Sample Dates:	6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.89E-02	3.39E-03	2.94E-03
Sample ID:	591252	Sample Dates:	6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.54E-02	3.27E-03	3.13E-03
Sample ID:	591492	Sample Dates:	6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.55E-03	3.09E-03
Sample ID:	591674	Sample Dates:	6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.10E-03	3.40E-03
Sample ID:	591897	Sample Dates:	4/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.35E-03	0.00E+00	1.35E-03
				Be-7	1.66E-01	3.57E-02	2.15E-02
				K-40	<3.41E-02	0.00E+00	3.41E-02
Sample ID:	591892	Sample Dates:	7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.29E-03	3.34E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID:	592242	Sample Dates:	7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.27E-03	3.13E-03
Sample ID:	592460	Sample Dates:	7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.54E-03	3.46E-03
Sample ID:	593055	Sample Dates:	7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.58E-02	3.69E-03	3.12E-03
Sample ID:	593224	Sample Dates:	7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.16E-03	3.04E-03
Sample ID:	593615	Sample Dates:	8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.11E-03	3.28E-03
Sample ID:	593858	Sample Dates:	8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	2.97E-03	2.76E-03
Sample ID:	594333	Sample Dates:	8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.76E-02	4.20E-03	3.36E-03
Sample ID:	594845	Sample Dates:	8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	2.64E-03	2.22E-03
Sample ID:	595048	Sample Dates:	9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.30E-03	3.11E-03
Sample ID:	595691	Sample Dates:	9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.38E-02	3.68E-03	3.32E-03
Sample ID:	596444	Sample Dates:	9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.89E-02	3.44E-03	2.63E-03
Sample ID:	596834	Sample Dates:	9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	2.89E-03	2.85E-03
Sample ID:	597355	Sample Dates:	7/3/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.60E-03	0.00E+00	1.60E-03
				Be-7	1.37E-01	3.77E-02	3.81E-02
				K-40	<3.36E-02	0.00E+00	3.36E-02
Sample ID:	597350	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.33E-02	3.25E-03	2.68E-03
Sample ID:	597918	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.35E-02	3.71E-03	3.36E-03
Sample ID:	598262	Sample Dates:	10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.17E-03	3.67E-03
Sample ID:	598915	Sample Dates:	10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.07E-02	3.16E-03	2.76E-03
Sample ID:	599114	Sample Dates:	10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.38E-02	3.72E-03	3.35E-03
Sample ID:	599517	Sample Dates:	11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.93E-02	3.91E-03	3.32E-03
Sample ID:	600357	Sample Dates:	11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.69E-02	3.36E-03	2.57E-03
Sample ID:	601172	Sample Dates:	11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.19E-03	3.39E-03
Sample ID:	601334	Sample Dates:	11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.71E-02	3.39E-03	2.68E-03
Sample ID:	601836	Sample Dates:	12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.95E-02	3.43E-03	3.11E-03
Sample ID:	602311	Sample Dates:	12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.31E-03	3.16E-03

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID:	602556	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	2.70E-03	2.44E-03
Sample ID:	602763	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.43E-03	3.28E-03
Sample ID:	603007	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.92E-03	0.00E+00	1.92E-03
				Cs-137	<1.04E-03	0.00E+00	1.04E-03
				Be-7	1.30E-01	3.79E-02	4.11E-02
				K-40	2.46E-02	1.73E-02	2.33E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	582728	Sample Dates:	1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.40E-02	0.00E+00	3.40E-02
				Cs-134	<1.61E-02	0.00E+00	1.61E-02
				Cs-137	<3.00E-02	0.00E+00	3.00E-02
				Be-7	<2.26E-01	0.00E+00	2.26E-01
				K-40	4.05E-01	2.43E-01	2.61E-01
Sample ID:	583017	Sample Dates:	1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.49E-02	0.00E+00	3.49E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<2.07E-01	0.00E+00	2.07E-01
				K-40	<5.49E-01	0.00E+00	5.49E-01
Sample ID:	583197	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.78E-02	0.00E+00	2.78E-02
				Cs-134	<2.65E-02	0.00E+00	2.65E-02
				Cs-137	<2.68E-02	0.00E+00	2.68E-02
				Be-7	<1.51E-01	0.00E+00	1.51E-01
				K-40	4.29E-01	3.42E-01	5.02E-01
Sample ID:	583547	Sample Dates:	1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.35E-02	0.00E+00	4.35E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.45E-02	0.00E+00	2.45E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	2.14E-01	2.60E-01	4.19E-01
Sample ID:	584275	Sample Dates:	1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<2.30E-02	0.00E+00	2.30E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	4.08E-01	2.29E-01	2.38E-01
Sample ID:	584980	Sample Dates:	2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.06E-02	0.00E+00	4.06E-02
				Cs-134	<2.63E-02	0.00E+00	2.63E-02
				Cs-137	<3.23E-02	0.00E+00	3.23E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01
				K-40	3.98E-01	2.08E-01	7.19E-02
Sample ID:	585411	Sample Dates:	2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.83E-02	0.00E+00	3.83E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<2.58E-02	0.00E+00	2.58E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	5.13E-01	2.63E-01	2.59E-01
Sample ID:	585614	Sample Dates:	2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<3.16E-02	0.00E+00	3.16E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	5.08E-01	2.93E-01	3.73E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 585867	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	<6.43E-01	0.00E+00	6.43E-01
Sample ID: 586127	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.65E-01	2.40E-01	6.66E-02
Sample ID: 586730	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<7.97E-02	0.00E+00	7.97E-02
		K-40	<5.72E-01	0.00E+00	5.72E-01
Sample ID: 586986	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.05E-02	0.00E+00	4.05E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	<6.36E-01	0.00E+00	6.36E-01
Sample ID: 587245	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.76E-02	0.00E+00	1.76E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	<4.57E-01	0.00E+00	4.57E-01
Sample ID: 587509	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	<5.11E-01	0.00E+00	5.11E-01
Sample ID: 587830	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.29E-02	0.00E+00	3.29E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	<4.47E-01	0.00E+00	4.47E-01
Sample ID: 588357	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
		K-40	2.06E-01	2.33E-01	3.69E-01
Sample ID: 588643	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	6.43E-01	2.67E-01	7.26E-02
Sample ID: 589598	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	7.14E-01	2.81E-01	7.17E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 589863	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	4.28E-01	2.87E-01	3.85E-01
Sample ID: 590070	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.62E-02	0.00E+00	4.62E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	5.64E-01	2.50E-01	7.28E-02
Sample ID: 590405	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	7.06E-01	2.70E-01	2.07E-01
Sample ID: 590540	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.36E-02	0.00E+00	4.36E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<3.50E-02	0.00E+00	3.50E-02
		Be-7	<2.64E-01	0.00E+00	2.64E-01
		K-40	4.26E-01	3.00E-01	3.96E-01
Sample ID: 590702	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	6.77E-01	3.23E-01	3.77E-01
Sample ID: 591253	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.28E-01	0.00E+00	2.28E-01
		K-40	4.06E-01	2.42E-01	2.70E-01
Sample ID: 591493	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	5.50E-01	3.06E-01	3.69E-01
Sample ID: 591675	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	7.28E-01	3.05E-01	2.55E-01
Sample ID: 591898	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.14E-02	0.00E+00	2.14E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	3.59E-01	2.41E-01	3.08E-01
Sample ID: 592243	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<3.51E-02	0.00E+00	3.51E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	<4.50E-01	0.00E+00	4.50E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 592461	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
		K-40	5.81E-01	2.41E-01	6.56E-02
Sample ID: 593056	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	9.16E-01	3.63E-01	3.86E-01
Sample ID: 593225	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<7.63E-02	0.00E+00	7.63E-02
		K-40	<5.49E-01	0.00E+00	5.49E-01
Sample ID: 593616	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<3.24E-02	0.00E+00	3.24E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	7.14E-01	2.91E-01	2.33E-01
Sample ID: 593859	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	<6.47E-01	0.00E+00	6.47E-01
Sample ID: 594334	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.47E-01	2.69E-01	3.39E-01
Sample ID: 594846	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	5.36E-01	2.71E-01	3.21E-01
Sample ID: 595049	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<7.90E-01	0.00E+00	7.90E-01
Sample ID: 595692	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	8.32E-01	3.41E-01	2.89E-01
Sample ID: 596445	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<5.05E-01	0.00E+00	5.05E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 596835	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.79E-02	0.00E+00	3.79E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
		K-40	<7.15E-01	0.00E+00	7.15E-01
Sample ID: 597356	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID: 597919	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	7.76E-01	2.81E-01	6.57E-02
Sample ID: 598263	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.91E-01	0.00E+00	1.91E-01
		K-40	4.74E-01	2.45E-01	2.34E-01
Sample ID: 598916	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	6.24E-01	3.11E-01	3.25E-01
Sample ID: 599115	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	<5.12E-01	0.00E+00	5.12E-01
Sample ID: 599518	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID: 600358	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<5.02E-01	0.00E+00	5.02E-01
Sample ID: 601173	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	4.97E-01	2.41E-01	2.17E-01
Sample ID: 601335	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<5.82E-01	0.00E+00	5.82E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 601837	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	6.51E-01	2.83E-01	2.41E-01
Sample ID: 602312	Sample Dates: 12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.84E-02	0.00E+00	4.84E-02
		Cs-134	<3.61E-02	0.00E+00	3.61E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<2.79E-01	0.00E+00	2.79E-01
		K-40	<7.39E-01	0.00E+00	7.39E-01
Sample ID: 602557	Sample Dates: 12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.11E-02	0.00E+00	6.11E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	4.62E-01	3.18E-01	4.61E-01
Sample ID: 602764	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.03E-02	0.00E+00	4.03E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<4.12E-02	0.00E+00	4.12E-02
		Be-7	<3.36E-01	0.00E+00	3.36E-01
		K-40	<6.34E-01	0.00E+00	6.34E-01
Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]					
Sample ID: 582729	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<3.89E-02	0.00E+00	3.89E-02
		Cs-137	<3.06E-02	0.00E+00	3.06E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
		K-40	6.88E-01	3.26E-01	3.31E-01
Sample ID: 583018	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	4.98E-01	2.27E-01	2.03E-01
Sample ID: 583198	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.42E-02	0.00E+00	3.42E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	6.36E-01	3.02E-01	2.84E-01
Sample ID: 583548	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	2.58E-01	1.88E-01	2.28E-01
Sample ID: 584276	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	3.93E-01	2.31E-01	2.66E-01
Sample ID: 584981	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.71E-02	0.00E+00	3.71E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	5.59E-01	2.37E-01	6.59E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 585412	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.79E-01	2.75E-01	2.82E-01
Sample ID: 585615	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	2.80E-01	2.17E-01	2.93E-01
Sample ID: 585868	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	4.05E-01	2.27E-01	2.25E-01
Sample ID: 586128	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.52E-01	2.11E-01	6.45E-02
Sample ID: 586731	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	3.19E-01	2.29E-01	3.09E-01
Sample ID: 586987	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	3.17E-01	2.23E-01	2.88E-01
Sample ID: 587246	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	6.13E-01	2.45E-01	6.38E-02
Sample ID: 587510	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.20E-01	1.79E-01	6.67E-02
Sample ID: 587831	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	8.99E-01	3.25E-01	2.45E-01
Sample ID: 588358	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	6.49E-01	2.84E-01	2.58E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 588644	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	5.52E-01	2.56E-01	2.26E-01
Sample ID: 589599	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	3.61E-01	2.05E-01	1.96E-01
Sample ID: 589864	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.59E-01	0.00E+00	5.59E-01
Sample ID: 590071	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	5.59E-01	2.79E-01	3.05E-01
Sample ID: 590406	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	5.16E-01	2.51E-01	2.51E-01
Sample ID: 590541	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.29E-02	0.00E+00	3.29E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	4.92E-01	2.74E-01	2.81E-01
Sample ID: 590703	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<2.59E-02	0.00E+00	2.59E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	6.67E-01	3.12E-01	3.38E-01
Sample ID: 591254	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	7.05E-01	3.16E-01	3.43E-01
Sample ID: 591494	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<5.10E-01	0.00E+00	5.10E-01
Sample ID: 591676	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	3.18E-01	2.01E-01	2.15E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 591899	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	8.82E-01	3.47E-01	3.46E-01
Sample ID: 592244	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.00E-02	0.00E+00	3.00E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	<6.48E-01	0.00E+00	6.48E-01
Sample ID: 592462	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	<4.18E-01	0.00E+00	4.18E-01
Sample ID: 593057	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	4.26E-01	2.04E-01	6.41E-02
Sample ID: 593226	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	6.00E-01	2.96E-01	3.40E-01
Sample ID: 593617	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	7.29E-01	2.89E-01	2.16E-01
Sample ID: 593860	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	6.90E-01	2.77E-01	2.20E-01
Sample ID: 594335	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	5.61E-01	2.66E-01	2.72E-01
Sample ID: 594847	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.90E-01	2.51E-01	2.88E-01
Sample ID: 595050	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	<6.45E-01	0.00E+00	6.45E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 595693	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	<5.58E-01	0.00E+00	5.58E-01
Sample ID: 596446	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	7.11E-01	3.11E-01	3.24E-01
Sample ID: 596836	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.67E-01	2.59E-01	2.31E-01
Sample ID: 597357	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	6.52E-01	3.27E-01	4.01E-01
Sample ID: 597920	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	8.04E-01	2.96E-01	7.03E-02
Sample ID: 598264	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	7.33E-01	3.39E-01	3.93E-01
Sample ID: 598917	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	7.24E-01	2.94E-01	2.55E-01
Sample ID: 599116	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	5.06E-01	2.49E-01	2.45E-01
Sample ID: 599519	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	3.60E-01	2.08E-01	2.08E-01
Sample ID: 600359	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	6.53E-01	2.84E-01	2.54E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 601174	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	4.21E-01	2.01E-01	6.33E-02
Sample ID: 601336	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	4.25E-01	2.71E-01	3.59E-01
Sample ID: 601838	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.58E-02	0.00E+00	3.58E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	<5.82E-01	0.00E+00	5.82E-01
Sample ID: 602313	Sample Dates: 12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.62E-02	0.00E+00	4.62E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<3.49E-02	0.00E+00	3.49E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	9.53E-01	4.26E-01	5.03E-01
Sample ID: 602558	Sample Dates: 12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.16E-02	0.00E+00	6.16E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<3.68E-02	0.00E+00	3.68E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	6.07E-01	3.20E-01	3.77E-01
Sample ID: 602765	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.11E-02	0.00E+00	5.11E-02
		Cs-134	<4.00E-02	0.00E+00	4.00E-02
		Cs-137	<3.42E-02	0.00E+00	3.42E-02
		Be-7	<2.76E-01	0.00E+00	2.76E-01
		K-40	7.19E-01	4.52E-01	6.07E-01
Sample Point 079 [INDICATOR - NE @ 0.56 miles]					
Sample ID: 582730	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.21E-02	0.00E+00	4.21E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<3.64E-02	0.00E+00	3.64E-02
		Be-7	<2.59E-01	0.00E+00	2.59E-01
		K-40	4.24E-01	2.98E-01	3.92E-01
Sample ID: 583019	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<3.69E-03	0.00E+00	3.69E-03
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<4.28E-01	0.00E+00	4.28E-01
Sample ID: 583199	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<4.16E-01	0.00E+00	4.16E-01
Sample ID: 583549	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	3.69E-01	2.44E-01	3.18E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 584277	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	<4.66E-01	0.00E+00	4.66E-01
Sample ID: 584982	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<5.01E-01	0.00E+00	5.01E-01
Sample ID: 585413	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<4.85E-01	0.00E+00	4.85E-01
Sample ID: 585616	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.89E-02	0.00E+00	3.89E-02
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	<6.01E-01	0.00E+00	6.01E-01
Sample ID: 585869	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	<4.30E-01	0.00E+00	4.30E-01
Sample ID: 586129	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<4.21E-01	0.00E+00	4.21E-01
Sample ID: 586732	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	<6.54E-01	0.00E+00	6.54E-01
Sample ID: 586988	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<2.64E-01	0.00E+00	2.64E-01
		K-40	<4.26E-01	0.00E+00	4.26E-01
Sample ID: 587247	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.47E-01	0.00E+00	5.47E-01
Sample ID: 587511	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	4.95E-01	3.04E-01	4.11E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 587832	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	7.23E-01	3.52E-01	4.16E-01
Sample ID: 588359	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	<5.38E-01	0.00E+00	5.38E-01
Sample ID: 588645	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	<4.35E-01	0.00E+00	4.35E-01
Sample ID: 589600	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	3.49E-01	2.10E-01	2.27E-01
Sample ID: 589865	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<5.73E-01	0.00E+00	5.73E-01
Sample ID: 590072	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<7.74E-02	0.00E+00	7.74E-02
		K-40	2.99E-01	1.94E-01	2.16E-01
Sample ID: 590407	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.88E-01	2.40E-01	2.53E-01
Sample ID: 590542	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	<7.88E-01	0.00E+00	7.88E-01
Sample ID: 590704	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	4.93E-01	2.24E-01	6.69E-02
Sample ID: 591255	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	4.32E-01	2.27E-01	2.27E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 591495	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	5.66E-01	2.72E-01	2.74E-01
Sample ID: 591677	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.45E-01	3.09E-01	3.89E-01
Sample ID: 591900	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	7.31E-01	3.00E-01	2.68E-01
Sample ID: 592245	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	<5.81E-01	0.00E+00	5.81E-01
Sample ID: 592463	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<2.77E-01	0.00E+00	2.77E-01
Sample ID: 593058	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	5.12E-01	2.99E-01	3.88E-01
Sample ID: 593227	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	4.55E-01	2.24E-01	1.98E-01
Sample ID: 593618	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<5.78E-01	0.00E+00	5.78E-01
Sample ID: 593861	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	4.21E-01	2.01E-01	6.34E-02
Sample ID: 594336	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	8.99E-01	3.04E-01	6.58E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 594848	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	5.70E-01	2.63E-01	2.80E-01
Sample ID: 595051	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.72E-01	3.13E-01	3.63E-01
Sample ID: 595694	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.80E-02	0.00E+00	1.80E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	5.01E-01	2.36E-01	2.06E-01
Sample ID: 596447	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<5.50E-03	0.00E+00	5.50E-03
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	<4.91E-01	0.00E+00	4.91E-01
Sample ID: 596837	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	5.85E-01	2.65E-01	2.53E-01
Sample ID: 597358	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	<6.79E-01	0.00E+00	6.79E-01
Sample ID: 597921	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	2.77E-01	2.93E-01	4.63E-01
Sample ID: 598265	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.42E-02	0.00E+00	4.42E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<3.24E-02	0.00E+00	3.24E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	8.15E-01	3.57E-01	3.64E-01
Sample ID: 598918	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	<4.56E-01	0.00E+00	4.56E-01
Sample ID: 599117	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	4.10E-01	2.07E-01	6.94E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 599520	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	4.66E-01	2.33E-01	2.16E-01
Sample ID: 600360	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	<4.98E-01	0.00E+00	4.98E-01
Sample ID: 601175	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	3.20E-01	2.25E-01	2.90E-01
Sample ID: 601337	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	4.68E-01	2.55E-01	2.87E-01
Sample ID: 601839	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	7.67E-01	2.78E-01	6.49E-02
Sample ID: 602314	Sample Dates: 12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.00E-02	0.00E+00	4.00E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	6.24E-01	2.71E-01	7.69E-02
Sample ID: 602559	Sample Dates: 12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.79E-02	0.00E+00	5.79E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	5.96E-01	2.34E-01	5.98E-02
Sample ID: 602766	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.39E-02	0.00E+00	5.39E-02
		Cs-134	<4.27E-02	0.00E+00	4.27E-02
		Cs-137	<3.65E-02	0.00E+00	3.65E-02
		Be-7	<2.49E-01	0.00E+00	2.49E-01
		K-40	8.24E-01	4.32E-01	5.32E-01
Sample Point 085 [INDICATOR - NNW @ 0.88 miles]					
Sample ID: 582731	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.66E-02	0.00E+00	4.66E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<3.02E-02	0.00E+00	3.02E-02
		Be-7	<2.83E-01	0.00E+00	2.83E-01
		K-40	5.90E-01	2.75E-01	8.41E-02
Sample ID: 583020	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	2.73E-01	1.77E-01	1.96E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 583200	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	<5.75E-01	0.00E+00	5.75E-01
Sample ID: 583550	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	2.77E-01	1.84E-01	2.03E-01
Sample ID: 584278	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	5.99E-01	2.74E-01	2.60E-01
Sample ID: 584983	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	7.18E-01	2.84E-01	2.09E-01
Sample ID: 585414	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	5.08E-01	2.26E-01	6.56E-02
Sample ID: 585617	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	<5.73E-01	0.00E+00	5.73E-01
Sample ID: 585870	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<4.61E-01	0.00E+00	4.61E-01
Sample ID: 586130	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.67E-02	0.00E+00	3.67E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	<6.96E-01	0.00E+00	6.96E-01
Sample ID: 586733	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	2.90E-01	2.05E-01	2.59E-01
Sample ID: 586989	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	<3.68E-01	0.00E+00	3.68E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 587248	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	5.40E-01	2.87E-01	3.47E-01
Sample ID: 587512	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	3.40E-01	2.06E-01	2.15E-01
Sample ID: 587833	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	4.82E-01	2.89E-01	3.75E-01
Sample ID: 588360	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<7.73E-02	0.00E+00	7.73E-02
		K-40	<5.43E-01	0.00E+00	5.43E-01
Sample ID: 588646	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	<4.71E-01	0.00E+00	4.71E-01
Sample ID: 589601	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<4.41E-01	0.00E+00	4.41E-01
Sample ID: 589866	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	2.66E-01	2.13E-01	2.95E-01
Sample ID: 590073	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	<4.54E-01	0.00E+00	4.54E-01
Sample ID: 590408	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	4.54E-01	2.58E-01	3.30E-01
Sample ID: 590543	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<3.52E-02	0.00E+00	3.52E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	<8.62E-01	0.00E+00	8.62E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 590705	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	<6.28E-01	0.00E+00	6.28E-01
Sample ID: 591256	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	<5.44E-01	0.00E+00	5.44E-01
Sample ID: 591496	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	6.20E-01	2.48E-01	6.46E-02
Sample ID: 591678	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	9.41E-01	3.58E-01	3.51E-01
Sample ID: 591901	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	<4.83E-01	0.00E+00	4.83E-01
Sample ID: 592246	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	3.51E-01	2.12E-01	2.37E-01
Sample ID: 592464	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	7.43E-01	3.30E-01	3.62E-01
Sample ID: 593059	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<5.68E-01	0.00E+00	5.68E-01
Sample ID: 593228	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<6.03E-01	0.00E+00	6.03E-01
Sample ID: 593619	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	4.78E-01	2.23E-01	6.82E-02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 593862	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	6.67E-01	2.62E-01	6.69E-02
Sample ID: 594337	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<6.01E-01	0.00E+00	6.01E-01
Sample ID: 594849	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	<4.20E-01	0.00E+00	4.20E-01
Sample ID: 595052	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	6.76E-01	3.34E-01	3.68E-01
Sample ID: 595695	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	5.22E-01	2.56E-01	2.57E-01
Sample ID: 596448	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	6.66E-01	3.03E-01	3.13E-01
Sample ID: 596838	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	7.49E-01	2.99E-01	2.57E-01
Sample ID: 597359	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	7.59E-01	3.68E-01	4.58E-01
Sample ID: 597922	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	5.61E-01	2.38E-01	6.61E-02
Sample ID: 598266	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	5.42E-01	3.19E-01	4.25E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 598919	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	4.01E-01	2.20E-01	2.17E-01
Sample ID: 599118	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.29E-02	0.00E+00	3.29E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	6.38E-01	3.12E-01	3.60E-01
Sample ID: 599521	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.93E-02	0.00E+00	1.93E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	3.83E-01	2.18E-01	2.21E-01
Sample ID: 600361	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	5.63E-01	2.62E-01	2.46E-01
Sample ID: 601176	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	3.30E-01	2.37E-01	3.20E-01
Sample ID: 601338	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	<4.59E-01	0.00E+00	4.59E-01
Sample ID: 601840	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	5.37E-01	3.08E-01	4.00E-01
Sample ID: 602315	Sample Dates: 12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.38E-02	0.00E+00	4.38E-02
		Cs-134	<3.43E-02	0.00E+00	3.43E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	5.40E-01	3.87E-01	5.61E-01
Sample ID: 602560	Sample Dates: 12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.60E-02	0.00E+00	5.60E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	5.45E-01	2.59E-01	2.77E-01
Sample ID: 602767	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.82E-02	0.00E+00	4.82E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<2.87E-01	0.00E+00	2.87E-01
		K-40	5.67E-01	3.82E-01	5.21E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 582732	Sample Dates: 1/3/2023 - 1/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.52E-02	0.00E+00	4.52E-02
		Cs-134	<2.83E-02	0.00E+00	2.83E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<2.51E-01	0.00E+00	2.51E-01
		K-40	5.78E-01	2.96E-01	2.75E-01
Sample ID: 583021	Sample Dates: 1/9/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.11E-01	2.05E-01	1.89E-01
Sample ID: 583201	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.35E-02	0.00E+00	4.35E-02
		Cs-134	<3.70E-02	0.00E+00	3.70E-02
		Cs-137	<4.02E-02	0.00E+00	4.02E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	6.48E-01	2.87E-01	8.36E-02
Sample ID: 583551	Sample Dates: 1/23/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	<5.03E-01	0.00E+00	5.03E-01
Sample ID: 584279	Sample Dates: 1/30/2023 - 2/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<2.36E-01	0.00E+00	2.36E-01
		K-40	5.52E-01	2.94E-01	3.35E-01
Sample ID: 584984	Sample Dates: 2/6/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	5.20E-01	2.58E-01	2.72E-01
Sample ID: 585415	Sample Dates: 2/13/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	3.39E-01	2.04E-01	2.20E-01
Sample ID: 585618	Sample Dates: 2/20/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	<4.62E-01	0.00E+00	4.62E-01
Sample ID: 585871	Sample Dates: 2/27/2023 - 3/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	3.46E-01	2.01E-01	2.02E-01
Sample ID: 586131	Sample Dates: 3/6/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	1.70E-01	2.55E-01	4.29E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 586734	Sample Dates: 3/13/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.94E-02	0.00E+00	3.94E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	<5.47E-01	0.00E+00	5.47E-01
Sample ID: 586990	Sample Dates: 3/20/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	<5.50E-01	0.00E+00	5.50E-01
Sample ID: 587249	Sample Dates: 3/27/2023 - 4/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	4.88E-01	2.59E-01	2.87E-01
Sample ID: 587513	Sample Dates: 4/3/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	<4.28E-01	0.00E+00	4.28E-01
Sample ID: 587834	Sample Dates: 4/10/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	4.92E-01	2.18E-01	6.35E-02
Sample ID: 588361	Sample Dates: 4/17/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.19E-01	0.00E+00	5.19E-01
Sample ID: 588647	Sample Dates: 4/24/2023 - 5/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	<4.75E-01	0.00E+00	4.75E-01
Sample ID: 589602	Sample Dates: 5/1/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	<4.49E-01	0.00E+00	4.49E-01
Sample ID: 589867	Sample Dates: 5/8/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	3.49E-01	2.53E-01	3.51E-01
Sample ID: 590074	Sample Dates: 5/15/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<4.56E-01	0.00E+00	4.56E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 590409	Sample Dates: 5/22/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	5.11E-01	2.59E-01	3.01E-01
Sample ID: 590544	Sample Dates: 5/30/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<3.36E-02	0.00E+00	3.36E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	4.12E-01	2.63E-01	3.23E-01
Sample ID: 590706	Sample Dates: 6/5/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.95E-02	0.00E+00	2.95E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	5.89E-01	2.45E-01	6.65E-02
Sample ID: 591257	Sample Dates: 6/12/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	8.35E-01	3.08E-01	2.29E-01
Sample ID: 591497	Sample Dates: 6/19/2023 - 6/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<6.48E-01	0.00E+00	6.48E-01
Sample ID: 591679	Sample Dates: 6/26/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	8.51E-01	4.04E-01	5.03E-01
Sample ID: 591902	Sample Dates: 7/3/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.23E-01	2.55E-01	2.33E-01
Sample ID: 592247	Sample Dates: 7/10/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<5.86E-01	0.00E+00	5.86E-01
Sample ID: 592465	Sample Dates: 7/17/2023 - 7/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	8.17E-01	3.11E-01	2.48E-01
Sample ID: 593060	Sample Dates: 7/24/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	3.86E-01	2.33E-01	2.69E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 593229	Sample Dates: 7/31/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	5.90E-01	3.05E-01	3.71E-01
Sample ID: 593620	Sample Dates: 8/7/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	7.75E-01	2.81E-01	6.56E-02
Sample ID: 593863	Sample Dates: 8/14/2023 - 8/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	6.66E-01	2.98E-01	3.10E-01
Sample ID: 594338	Sample Dates: 8/21/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	5.53E-01	2.68E-01	2.72E-01
Sample ID: 594850	Sample Dates: 8/28/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	7.90E-01	3.39E-01	3.98E-01
Sample ID: 595053	Sample Dates: 9/5/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<6.35E-01	0.00E+00	6.35E-01
Sample ID: 595696	Sample Dates: 9/11/2023 - 9/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	5.51E-01	2.51E-01	2.21E-01
Sample ID: 596449	Sample Dates: 9/18/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.95E-02	0.00E+00	3.95E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<3.53E-02	0.00E+00	3.53E-02
		Be-7	<2.49E-01	0.00E+00	2.49E-01
		K-40	3.38E-01	3.08E-01	4.64E-01
Sample ID: 596839	Sample Dates: 9/25/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	6.34E-01	2.49E-01	6.36E-02
Sample ID: 597360	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	5.11E-01	2.70E-01	3.06E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 597923	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	5.36E-01	2.68E-01	2.94E-01
Sample ID: 598267	Sample Dates: 10/16/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.64E-02	0.00E+00	3.64E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	5.94E-01	2.64E-01	2.41E-01
Sample ID: 598920	Sample Dates: 10/23/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	2.43E-01	2.22E-01	3.29E-01
Sample ID: 599119	Sample Dates: 10/30/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.67E-02	0.00E+00	3.67E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<3.37E-02	0.00E+00	3.37E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	<5.90E-01	0.00E+00	5.90E-01
Sample ID: 599522	Sample Dates: 11/6/2023 - 11/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	<5.57E-01	0.00E+00	5.57E-01
Sample ID: 600362	Sample Dates: 11/13/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	2.43E-01	1.79E-01	2.18E-01
Sample ID: 601177	Sample Dates: 11/20/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<5.31E-01	0.00E+00	5.31E-01
Sample ID: 601339	Sample Dates: 11/27/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	2.86E-01	2.76E-01	4.24E-01
Sample ID: 601841	Sample Dates: 12/4/2023 - 12/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	2.99E-01	2.04E-01	2.50E-01
Sample ID: 602316	Sample Dates: 12/11/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.47E-02	0.00E+00	4.47E-02
		Cs-134	<3.79E-02	0.00E+00	3.79E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<2.61E-01	0.00E+00	2.61E-01
		K-40	8.11E-01	3.34E-01	2.78E-01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID:	602561	Sample Dates:	12/18/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.50E-02	0.00E+00	5.50E-02
				Cs-134	<1.80E-02	0.00E+00	1.80E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.76E-01	0.00E+00	1.76E-01
				K-40	7.51E-01	3.16E-01	3.47E-01

Sample ID:	602768	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.56E-02	0.00E+00	4.56E-02
				Cs-134	<3.85E-02	0.00E+00	3.85E-02
				Cs-137	<3.98E-02	0.00E+00	3.98E-02
				Be-7	<2.89E-01	0.00E+00	2.89E-01
				K-40	5.39E-01	3.29E-01	3.95E-01

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	583281	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.27E+00	0.00E+00	3.27E+00
				Mn-54	<4.60E+00	0.00E+00	4.60E+00
				Co-58	<5.77E+00	0.00E+00	5.77E+00
				Fe-59	<9.21E+00	0.00E+00	9.21E+00
				Co-60	<3.87E+00	0.00E+00	3.87E+00
				Zn-65	<1.06E+01	0.00E+00	1.06E+01
				Zr-95	<9.27E+00	0.00E+00	9.27E+00
				Nb-95	<6.31E+00	0.00E+00	6.31E+00
				I-131	<1.33E+01	0.00E+00	1.33E+01
				Cs-134	<5.10E+00	0.00E+00	5.10E+00
				Cs-137	<4.18E+00	0.00E+00	4.18E+00
				BaLa-140	<1.20E+01	0.00E+00	1.20E+01
				Be-7	<4.81E+01	0.00E+00	4.81E+01
				K-40	6.75E+01	4.76E+01	7.07E+01

Sample ID:	585475	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.24E+00	0.00E+00	3.24E+00
				Mn-54	<3.32E+00	0.00E+00	3.32E+00
				Co-58	<2.14E+00	0.00E+00	2.14E+00
				Fe-59	<7.38E+00	0.00E+00	7.38E+00
				Co-60	<3.41E+00	0.00E+00	3.41E+00
				Zn-65	<7.43E+00	0.00E+00	7.43E+00
				Zr-95	<6.75E+00	0.00E+00	6.75E+00
				Nb-95	<3.49E+00	0.00E+00	3.49E+00
				I-131	<1.23E+01	0.00E+00	1.23E+01
				Cs-134	<2.97E+00	0.00E+00	2.97E+00
				Cs-137	<3.14E+00	0.00E+00	3.14E+00
				BaLa-140	<8.43E+00	0.00E+00	8.43E+00
				Be-7	<3.42E+01	0.00E+00	3.42E+01
				K-40	<6.44E+01	0.00E+00	6.44E+01

Sample ID:	586794	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	<3.21E+00	0.00E+00	3.21E+00
				Mn-54	<3.91E+00	0.00E+00	3.91E+00
				Co-58	<3.29E+00	0.00E+00	3.29E+00
				Fe-59	<9.79E+00	0.00E+00	9.79E+00
				Co-60	<3.97E+00	0.00E+00	3.97E+00
				Zn-65	<1.29E+01	0.00E+00	1.29E+01
				Zr-95	<8.11E+00	0.00E+00	8.11E+00
				Nb-95	<5.37E+00	0.00E+00	5.37E+00
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<3.29E+00	0.00E+00	3.29E+00
				Cs-137	<4.52E+00	0.00E+00	4.52E+00
				BaLa-140	<1.20E+01	0.00E+00	1.20E+01
				Be-7	<3.68E+01	0.00E+00	3.68E+01
				K-40	7.34E+01	4.81E+01	6.88E+01

Sample ID:	587734	Sample Dates:	12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3DW	<-9.2E+01	0.00E+00	2.08E+02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 587934	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<2.38E+00	0.00E+00	2.38E+00
		Co-58	<3.07E+00	0.00E+00	3.07E+00
		Fe-59	<6.08E+00	0.00E+00	6.08E+00
		Co-60	<2.56E+00	0.00E+00	2.56E+00
		Zn-65	<5.66E+00	0.00E+00	5.66E+00
		Zr-95	<5.46E+00	0.00E+00	5.46E+00
		Nb-95	<3.80E+00	0.00E+00	3.80E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.44E+00	0.00E+00	3.44E+00
		Cs-137	<2.23E+00	0.00E+00	2.23E+00
		BaLa-140	<4.40E+00	0.00E+00	4.40E+00
		Be-7	<2.44E+01	0.00E+00	2.44E+01
		K-40	1.01E+02	3.23E+01	3.31E+01
Sample ID: 589947	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<3.72E+00	0.00E+00	3.72E+00
		Co-58	<4.17E+00	0.00E+00	4.17E+00
		Fe-59	<6.76E+00	0.00E+00	6.76E+00
		Co-60	<4.93E+00	0.00E+00	4.93E+00
		Zn-65	<8.65E+00	0.00E+00	8.65E+00
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<5.63E+00	0.00E+00	5.63E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.92E+00	0.00E+00	4.92E+00
		Cs-137	<3.77E+00	0.00E+00	3.77E+00
		BaLa-140	<1.30E+01	0.00E+00	1.30E+01
		Be-7	<3.34E+01	0.00E+00	3.34E+01
		K-40	7.21E+01	4.76E+01	6.88E+01
Sample ID: 590809	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<3.21E+00	0.00E+00	3.21E+00
		Co-58	<2.81E+00	0.00E+00	2.81E+00
		Fe-59	<6.01E+00	0.00E+00	6.01E+00
		Co-60	<3.75E+00	0.00E+00	3.75E+00
		Zn-65	<6.58E+00	0.00E+00	6.58E+00
		Zr-95	<5.42E+00	0.00E+00	5.42E+00
		Nb-95	<3.93E+00	0.00E+00	3.93E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<3.13E+00	0.00E+00	3.13E+00
		Cs-137	<2.37E+00	0.00E+00	2.37E+00
		BaLa-140	<8.08E+00	0.00E+00	8.08E+00
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	8.51E+01	3.30E+01	4.07E+01
Sample ID: 592017	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.52E+00	0.00E+00	3.52E+00
		Co-58	<3.09E+00	0.00E+00	3.09E+00
		Fe-59	<6.73E+00	0.00E+00	6.73E+00
		Co-60	<3.98E+00	0.00E+00	3.98E+00
		Zn-65	<7.33E+00	0.00E+00	7.33E+00
		Zr-95	<6.61E+00	0.00E+00	6.61E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.90E+00	0.00E+00	3.90E+00
		Cs-137	<2.99E+00	0.00E+00	2.99E+00
		BaLa-140	<6.09E+00	0.00E+00	6.09E+00
		Be-7	<2.43E+01	0.00E+00	2.43E+01
		K-40	<4.75E+01	0.00E+00	4.75E+01
Sample ID: 592162	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-7.8E+01	0.00E+00	1.91E+02
Sample ID: 593353	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 593353	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.16E+00	0.00E+00	3.16E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<6.54E+00	0.00E+00	6.54E+00
		Co-60	<2.97E+00	0.00E+00	2.97E+00
		Zn-65	<6.87E+00	0.00E+00	6.87E+00
		Zr-95	<5.88E+00	0.00E+00	5.88E+00
		Nb-95	<3.96E+00	0.00E+00	3.96E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<2.39E+00	0.00E+00	2.39E+00
		BaLa-140	<7.83E+00	0.00E+00	7.83E+00
		Be-7	<3.29E+01	0.00E+00	3.29E+01
		K-40	7.25E+01	3.29E+01	4.14E+01
Sample ID: 594906	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<3.27E+00	0.00E+00	3.27E+00
		Co-58	<4.10E+00	0.00E+00	4.10E+00
		Fe-59	<7.43E+00	0.00E+00	7.43E+00
		Co-60	<3.53E+00	0.00E+00	3.53E+00
		Zn-65	<6.19E+00	0.00E+00	6.19E+00
		Zr-95	<6.03E+00	0.00E+00	6.03E+00
		Nb-95	<5.50E+00	0.00E+00	5.50E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.65E+00	0.00E+00	4.65E+00
		Cs-137	<3.05E+00	0.00E+00	3.05E+00
		BaLa-140	<9.59E+00	0.00E+00	9.59E+00
		Be-7	<2.86E+01	0.00E+00	2.86E+01
		K-40	7.17E+01	3.76E+01	5.12E+01
Sample ID: 597219	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.38E+00	4.23E+00	3.17E+00
		Mn-54	<3.70E+00	0.00E+00	3.70E+00
		Co-58	<3.76E+00	0.00E+00	3.76E+00
		Fe-59	<8.94E+00	0.00E+00	8.94E+00
		Co-60	<4.11E+00	0.00E+00	4.11E+00
		Zn-65	<8.38E+00	0.00E+00	8.38E+00
		Zr-95	<6.67E+00	0.00E+00	6.67E+00
		Nb-95	<4.76E+00	0.00E+00	4.76E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.59E+00	0.00E+00	3.59E+00
		Cs-137	<3.45E+00	0.00E+00	3.45E+00
		BaLa-140	<6.90E+00	0.00E+00	6.90E+00
		Be-7	<3.40E+01	0.00E+00	3.40E+01
		K-40	9.77E+01	3.83E+01	3.82E+01
Sample ID: 597840	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-1.9E+01	0.00E+00	1.94E+02
Sample ID: 598979	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<2.50E+00	0.00E+00	2.50E+00
		Co-58	<4.35E+00	0.00E+00	4.35E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<4.81E+00	0.00E+00	4.81E+00
		Zn-65	<6.70E+00	0.00E+00	6.70E+00
		Zr-95	<7.15E+00	0.00E+00	7.15E+00
		Nb-95	<5.98E+00	0.00E+00	5.98E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.84E+00	0.00E+00	3.84E+00
		Cs-137	<3.65E+00	0.00E+00	3.65E+00
		BaLa-140	<8.31E+00	0.00E+00	8.31E+00
		Be-7	<3.71E+01	0.00E+00	3.71E+01
		K-40	1.07E+02	4.60E+01	5.61E+01
Sample ID: 601217	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.35E+00	0.00E+00	3.35E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 601217	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<3.26E+00	0.00E+00	3.26E+00
		Fe-59	<6.13E+00	0.00E+00	6.13E+00
		Co-60	<2.81E+00	0.00E+00	2.81E+00
		Zn-65	<4.20E+00	0.00E+00	4.20E+00
		Zr-95	<5.79E+00	0.00E+00	5.79E+00
		Nb-95	<3.64E+00	0.00E+00	3.64E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.77E+00	0.00E+00	2.77E+00
		Cs-137	<2.28E+00	0.00E+00	2.28E+00
		BaLa-140	<7.25E+00	0.00E+00	7.25E+00
		Be-7	<2.32E+01	0.00E+00	2.32E+01
		K-40	5.73E+01	3.08E+01	4.33E+01

Sample ID: 602643	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.40E+00	4.23E+00	3.17E+00
		Mn-54	<2.08E+00	0.00E+00	2.08E+00
		Co-58	<2.59E+00	0.00E+00	2.59E+00
		Fe-59	<4.68E+00	0.00E+00	4.68E+00
		Co-60	<2.14E+00	0.00E+00	2.14E+00
		Zn-65	<4.00E+00	0.00E+00	4.00E+00
		Zr-95	<4.77E+00	0.00E+00	4.77E+00
		Nb-95	<3.46E+00	0.00E+00	3.46E+00
		I-131	<1.38E+01	0.00E+00	1.38E+01
		Cs-134	<2.53E+00	0.00E+00	2.53E+00
		Cs-137	<2.12E+00	0.00E+00	2.12E+00
		BaLa-140	<5.66E+00	0.00E+00	5.66E+00
		Be-7	<2.04E+01	0.00E+00	2.04E+01

Sample ID: 603897	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-4.8E+00	0.00E+00	1.82E+02

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 583282	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.91E+00	0.00E+00	3.91E+00
		Co-58	<4.20E+00	0.00E+00	4.20E+00
		Fe-59	<7.23E+00	0.00E+00	7.23E+00
		Co-60	<2.43E+00	0.00E+00	2.43E+00
		Zn-65	<8.00E+00	0.00E+00	8.00E+00
		Zr-95	<7.93E+00	0.00E+00	7.93E+00
		Nb-95	<4.70E+00	0.00E+00	4.70E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.92E+00	0.00E+00	3.92E+00
		Cs-137	<3.57E+00	0.00E+00	3.57E+00
		BaLa-140	<6.63E+00	0.00E+00	6.63E+00
		Be-7	<3.89E+01	0.00E+00	3.89E+01

Sample ID: 585476	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.24E+00	0.00E+00	3.24E+00
		Mn-54	<3.50E+00	0.00E+00	3.50E+00
		Co-58	<4.07E+00	0.00E+00	4.07E+00
		Fe-59	<5.70E+00	0.00E+00	5.70E+00
		Co-60	<3.07E+00	0.00E+00	3.07E+00
		Zn-65	<4.04E+00	0.00E+00	4.04E+00
		Zr-95	<6.75E+00	0.00E+00	6.75E+00
		Nb-95	<3.71E+00	0.00E+00	3.71E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.18E+00	0.00E+00	3.18E+00
		Cs-137	<3.06E+00	0.00E+00	3.06E+00
		BaLa-140	<8.05E+00	0.00E+00	8.05E+00
		Be-7	<2.76E+01	0.00E+00	2.76E+01

Sample ID: 586795	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 586795	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<3.94E+00	0.00E+00	3.94E+00
		Fe-59	<5.78E+00	0.00E+00	5.78E+00
		Co-60	<3.84E+00	0.00E+00	3.84E+00
		Zn-65	<7.45E+00	0.00E+00	7.45E+00
		Zr-95	<7.65E+00	0.00E+00	7.65E+00
		Nb-95	<4.72E+00	0.00E+00	4.72E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<3.52E+00	0.00E+00	3.52E+00
		Cs-137	<2.93E+00	0.00E+00	2.93E+00
		BaLa-140	<4.97E+00	0.00E+00	4.97E+00
		Be-7	<3.32E+01	0.00E+00	3.32E+01
		K-40	1.31E+02	4.09E+01	3.56E+01
Sample ID: 587735	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-5.2E+01	0.00E+00	2.08E+02
Sample ID: 587935	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<3.69E+00	0.00E+00	3.69E+00
		Co-58	<4.50E+00	0.00E+00	4.50E+00
		Fe-59	<9.60E+00	0.00E+00	9.60E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<7.39E+00	0.00E+00	7.39E+00
		Zr-95	<6.92E+00	0.00E+00	6.92E+00
		Nb-95	<5.07E+00	0.00E+00	5.07E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.54E+00	0.00E+00	3.54E+00
		Cs-137	<3.40E+00	0.00E+00	3.40E+00
		BaLa-140	<8.05E+00	0.00E+00	8.05E+00
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	7.90E+01	4.41E+01	6.10E+01
Sample ID: 589948	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<2.81E+00	0.00E+00	2.81E+00
		Co-58	<2.76E+00	0.00E+00	2.76E+00
		Fe-59	<7.81E+00	0.00E+00	7.81E+00
		Co-60	<3.57E+00	0.00E+00	3.57E+00
		Zn-65	<7.40E+00	0.00E+00	7.40E+00
		Zr-95	<6.60E+00	0.00E+00	6.60E+00
		Nb-95	<4.23E+00	0.00E+00	4.23E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<3.85E+00	0.00E+00	3.85E+00
		Cs-137	<3.76E+00	0.00E+00	3.76E+00
		BaLa-140	<8.67E+00	0.00E+00	8.67E+00
		Be-7	<2.48E+01	0.00E+00	2.48E+01
		K-40	8.93E+01	3.70E+01	4.57E+01
Sample ID: 590810	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00
		Mn-54	<2.34E+00	0.00E+00	2.34E+00
		Co-58	<3.21E+00	0.00E+00	3.21E+00
		Fe-59	<3.93E+00	0.00E+00	3.93E+00
		Co-60	<3.33E+00	0.00E+00	3.33E+00
		Zn-65	<5.44E+00	0.00E+00	5.44E+00
		Zr-95	<5.01E+00	0.00E+00	5.01E+00
		Nb-95	<3.68E+00	0.00E+00	3.68E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.14E+00	0.00E+00	3.14E+00
		Cs-137	<2.28E+00	0.00E+00	2.28E+00
		BaLa-140	<5.58E+00	0.00E+00	5.58E+00
		Be-7	<2.48E+01	0.00E+00	2.48E+01
		K-40	5.09E+01	3.13E+01	4.63E+01
Sample ID: 592018	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<4.23E+00	0.00E+00	4.23E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 592018	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<5.78E+00	0.00E+00	5.78E+00
		Fe-59	<1.18E+01	0.00E+00	1.18E+01
		Co-60	<3.85E+00	0.00E+00	3.85E+00
		Zn-65	<6.11E+00	0.00E+00	6.11E+00
		Zr-95	<8.35E+00	0.00E+00	8.35E+00
		Nb-95	<5.57E+00	0.00E+00	5.57E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<4.44E+00	0.00E+00	4.44E+00
		Cs-137	<3.89E+00	0.00E+00	3.89E+00
		BaLa-140	<9.28E+00	0.00E+00	9.28E+00
		Be-7	<3.15E+01	0.00E+00	3.15E+01
		K-40	1.03E+02	4.62E+01	5.01E+01
Sample ID: 592163	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<4.00E+01	0.00E+00	1.90E+02
Sample ID: 593354	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<3.82E+00	0.00E+00	3.82E+00
		Co-58	<5.13E+00	0.00E+00	5.13E+00
		Fe-59	<1.13E+01	0.00E+00	1.13E+01
		Co-60	<4.10E+00	0.00E+00	4.10E+00
		Zn-65	<8.23E+00	0.00E+00	8.23E+00
		Zr-95	<9.45E+00	0.00E+00	9.45E+00
		Nb-95	<5.78E+00	0.00E+00	5.78E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.70E+00	0.00E+00	4.70E+00
		Cs-137	<4.10E+00	0.00E+00	4.10E+00
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<4.24E+01	0.00E+00	4.24E+01
		K-40	<8.13E+01	0.00E+00	8.13E+01
Sample ID: 594907	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<2.95E+00	0.00E+00	2.95E+00
		Co-58	<3.20E+00	0.00E+00	3.20E+00
		Fe-59	<5.72E+00	0.00E+00	5.72E+00
		Co-60	<3.19E+00	0.00E+00	3.19E+00
		Zn-65	<4.61E+00	0.00E+00	4.61E+00
		Zr-95	<6.19E+00	0.00E+00	6.19E+00
		Nb-95	<4.59E+00	0.00E+00	4.59E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.07E+00	0.00E+00	3.07E+00
		Cs-137	<2.31E+00	0.00E+00	2.31E+00
		BaLa-140	<5.96E+00	0.00E+00	5.96E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	7.09E+01	2.85E+01	3.06E+01
Sample ID: 597220	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.17E+00	0.00E+00	3.17E+00
		Mn-54	<3.79E+00	0.00E+00	3.79E+00
		Co-58	<3.24E+00	0.00E+00	3.24E+00
		Fe-59	<6.71E+00	0.00E+00	6.71E+00
		Co-60	<4.31E+00	0.00E+00	4.31E+00
		Zn-65	<8.32E+00	0.00E+00	8.32E+00
		Zr-95	<5.75E+00	0.00E+00	5.75E+00
		Nb-95	<4.87E+00	0.00E+00	4.87E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<4.06E+00	0.00E+00	4.06E+00
		Cs-137	<3.66E+00	0.00E+00	3.66E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	1.15E+02	4.15E+01	4.22E+01
Sample ID: 597841	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<3.76E+01	0.00E+00	1.95E+02
Sample ID: 598980	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 598980	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.22E+00	0.00E+00	4.22E+00
		Co-58	<5.25E+00	0.00E+00	5.25E+00
		Fe-59	<1.17E+01	0.00E+00	1.17E+01
		Co-60	<4.27E+00	0.00E+00	4.27E+00
		Zn-65	<8.98E+00	0.00E+00	8.98E+00
		Zr-95	<9.92E+00	0.00E+00	9.92E+00
		Nb-95	<5.92E+00	0.00E+00	5.92E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<5.57E+00	0.00E+00	5.57E+00
		Cs-137	<3.74E+00	0.00E+00	3.74E+00
		BaLa-140	<9.87E+00	0.00E+00	9.87E+00
		Be-7	<2.75E+01	0.00E+00	2.75E+01
		K-40	7.12E+01	4.21E+01	5.58E+01

Sample ID: 601218	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<2.15E+00	0.00E+00	2.15E+00
		Co-58	<3.85E+00	0.00E+00	3.85E+00
		Fe-59	<8.30E+00	0.00E+00	8.30E+00
		Co-60	<3.24E+00	0.00E+00	3.24E+00
		Zn-65	<6.28E+00	0.00E+00	6.28E+00
		Zr-95	<7.47E+00	0.00E+00	7.47E+00
		Nb-95	<3.93E+00	0.00E+00	3.93E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.94E+00	0.00E+00	2.94E+00
		Cs-137	<2.77E+00	0.00E+00	2.77E+00
		BaLa-140	<5.72E+00	0.00E+00	5.72E+00
		Be-7	<2.78E+01	0.00E+00	2.78E+01
		K-40	<6.58E+01	0.00E+00	6.58E+01

Sample ID: 602644	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.17E+00	0.00E+00	3.17E+00
		Mn-54	<1.92E+00	0.00E+00	1.92E+00
		Co-58	<2.10E+00	0.00E+00	2.10E+00
		Fe-59	<4.70E+00	0.00E+00	4.70E+00
		Co-60	<1.64E+00	0.00E+00	1.64E+00
		Zn-65	<3.29E+00	0.00E+00	3.29E+00
		Zr-95	<4.37E+00	0.00E+00	4.37E+00
		Nb-95	<2.87E+00	0.00E+00	2.87E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<2.05E+00	0.00E+00	2.05E+00
		Cs-137	<1.75E+00	0.00E+00	1.75E+00
		BaLa-140	<4.74E+00	0.00E+00	4.74E+00
		Be-7	<1.89E+01	0.00E+00	1.89E+01
		K-40	7.48E+01	2.27E+01	2.80E+01

Sample ID: 603898	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<2.65E+01	0.00E+00	1.84E+02

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 583283	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<4.45E+00	0.00E+00	4.45E+00
		Co-58	<5.12E+00	0.00E+00	5.12E+00
		Fe-59	<9.63E+00	0.00E+00	9.63E+00
		Co-60	<4.60E+00	0.00E+00	4.60E+00
		Zn-65	<9.02E+00	0.00E+00	9.02E+00
		Zr-95	<8.76E+00	0.00E+00	8.76E+00
		Nb-95	<5.08E+00	0.00E+00	5.08E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<5.48E+00	0.00E+00	5.48E+00
		Cs-137	<5.23E+00	0.00E+00	5.23E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.61E+01	0.00E+00	3.61E+01
		K-40	9.61E+01	4.49E+01	5.29E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 585477	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.24E+00	0.00E+00	3.24E+00
		Mn-54	<3.31E+00	0.00E+00	3.31E+00
		Co-58	<2.67E+00	0.00E+00	2.67E+00
		Fe-59	<6.62E+00	0.00E+00	6.62E+00
		Co-60	<2.70E+00	0.00E+00	2.70E+00
		Zn-65	<6.65E+00	0.00E+00	6.65E+00
		Zr-95	<6.37E+00	0.00E+00	6.37E+00
		Nb-95	<3.51E+00	0.00E+00	3.51E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.31E+00	0.00E+00	3.31E+00
		Cs-137	<2.97E+00	0.00E+00	2.97E+00
		BaLa-140	<8.02E+00	0.00E+00	8.02E+00
		Be-7	<2.79E+01	0.00E+00	2.79E+01
		K-40	7.37E+01	3.58E+01	4.84E+01
Sample ID: 586796	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.21E+00	0.00E+00	3.21E+00
		Mn-54	<2.84E+00	0.00E+00	2.84E+00
		Co-58	<3.28E+00	0.00E+00	3.28E+00
		Fe-59	<5.44E+00	0.00E+00	5.44E+00
		Co-60	<2.75E+00	0.00E+00	2.75E+00
		Zn-65	<6.13E+00	0.00E+00	6.13E+00
		Zr-95	<4.36E+00	0.00E+00	4.36E+00
		Nb-95	<4.29E+00	0.00E+00	4.29E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<3.99E+00	0.00E+00	3.99E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<7.03E+00	0.00E+00	7.03E+00
		Be-7	<3.02E+01	0.00E+00	3.02E+01
		K-40	<4.78E+01	0.00E+00	4.78E+01
Sample ID: 587736	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	3.55E+02	1.33E+02	2.09E+02
Sample ID: 587936	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<4.27E+00	0.00E+00	4.27E+00
		Fe-59	<6.53E+00	0.00E+00	6.53E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<5.65E+00	0.00E+00	5.65E+00
		Zr-95	<7.17E+00	0.00E+00	7.17E+00
		Nb-95	<4.68E+00	0.00E+00	4.68E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<2.55E+00	0.00E+00	2.55E+00
		Cs-137	<3.08E+00	0.00E+00	3.08E+00
		BaLa-140	<7.00E+00	0.00E+00	7.00E+00
		Be-7	<3.27E+01	0.00E+00	3.27E+01
		K-40	9.77E+01	3.97E+01	4.72E+01
Sample ID: 589949	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.19E+00	0.00E+00	3.19E+00
		Mn-54	<2.23E+00	0.00E+00	2.23E+00
		Co-58	<3.35E+00	0.00E+00	3.35E+00
		Fe-59	<7.73E+00	0.00E+00	7.73E+00
		Co-60	<2.77E+00	0.00E+00	2.77E+00
		Zn-65	<6.20E+00	0.00E+00	6.20E+00
		Zr-95	<5.51E+00	0.00E+00	5.51E+00
		Nb-95	<3.22E+00	0.00E+00	3.22E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<3.28E+00	0.00E+00	3.28E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<3.43E+01	0.00E+00	3.43E+01
		K-40	8.55E+01	3.43E+01	3.91E+01
Sample ID: 590811	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.22E+00	0.00E+00	3.22E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 590811	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.20E+00	0.00E+00	3.20E+00
		Co-58	<3.47E+00	0.00E+00	3.47E+00
		Fe-59	<5.16E+00	0.00E+00	5.16E+00
		Co-60	<2.60E+00	0.00E+00	2.60E+00
		Zn-65	<7.06E+00	0.00E+00	7.06E+00
		Zr-95	<6.17E+00	0.00E+00	6.17E+00
		Nb-95	<4.44E+00	0.00E+00	4.44E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.47E+00	0.00E+00	3.47E+00
		Cs-137	<3.45E+00	0.00E+00	3.45E+00
		BaLa-140	<8.20E+00	0.00E+00	8.20E+00
		Be-7	<2.74E+01	0.00E+00	2.74E+01
		K-40	9.80E+01	3.69E+01	4.47E+01
Sample ID: 592019	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.95E+00	0.00E+00	3.95E+00
		Co-58	<4.40E+00	0.00E+00	4.40E+00
		Fe-59	<1.10E+01	0.00E+00	1.10E+01
		Co-60	<4.38E+00	0.00E+00	4.38E+00
		Zn-65	<9.23E+00	0.00E+00	9.23E+00
		Zr-95	<7.80E+00	0.00E+00	7.80E+00
		Nb-95	<4.95E+00	0.00E+00	4.95E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<4.15E+00	0.00E+00	4.15E+00
		Cs-137	<4.38E+00	0.00E+00	4.38E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<3.82E+01	0.00E+00	3.82E+01
		K-40	<7.95E+01	0.00E+00	7.95E+01
Sample ID: 592164	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<1.74E+02	0.00E+00	1.92E+02
Sample ID: 593355	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.27E+00	0.00E+00	3.27E+00
		Mn-54	<2.88E+00	0.00E+00	2.88E+00
		Co-58	<2.56E+00	0.00E+00	2.56E+00
		Fe-59	<7.91E+00	0.00E+00	7.91E+00
		Co-60	<3.57E+00	0.00E+00	3.57E+00
		Zn-65	<6.28E+00	0.00E+00	6.28E+00
		Zr-95	<5.70E+00	0.00E+00	5.70E+00
		Nb-95	<3.74E+00	0.00E+00	3.74E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<4.08E+00	0.00E+00	4.08E+00
		Cs-137	<2.99E+00	0.00E+00	2.99E+00
		BaLa-140	<7.58E+00	0.00E+00	7.58E+00
		Be-7	<3.22E+01	0.00E+00	3.22E+01
		K-40	9.14E+01	5.96E+01	2.20E+01
Sample ID: 594908	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.23E+00	0.00E+00	3.23E+00
		Mn-54	<2.78E+00	0.00E+00	2.78E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<8.02E+00	0.00E+00	8.02E+00
		Co-60	<2.10E+00	0.00E+00	2.10E+00
		Zn-65	<4.69E+00	0.00E+00	4.69E+00
		Zr-95	<6.34E+00	0.00E+00	6.34E+00
		Nb-95	<4.62E+00	0.00E+00	4.62E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.78E+00	0.00E+00	2.78E+00
		Cs-137	<3.50E+00	0.00E+00	3.50E+00
		BaLa-140	<8.08E+00	0.00E+00	8.08E+00
		Be-7	<2.81E+01	0.00E+00	2.81E+01
		K-40	8.94E+01	3.87E+01	5.32E+01
Sample ID: 597221	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.17E+00	0.00E+00	3.17E+00
		Mn-54	<3.16E+00	0.00E+00	3.16E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 597221	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<3.89E+00	0.00E+00	3.89E+00
		Fe-59	<8.36E+00	0.00E+00	8.36E+00
		Co-60	<4.42E+00	0.00E+00	4.42E+00
		Zn-65	<6.83E+00	0.00E+00	6.83E+00
		Zr-95	<6.47E+00	0.00E+00	6.47E+00
		Nb-95	<4.09E+00	0.00E+00	4.09E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.90E+00	0.00E+00	2.90E+00
		Cs-137	<3.20E+00	0.00E+00	3.20E+00
		BaLa-140	<4.77E+00	0.00E+00	4.77E+00
		Be-7	<3.28E+01	0.00E+00	3.28E+01
		K-40	4.90E+01	3.58E+01	5.32E+01
Sample ID: 597842	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	2.17E+02	1.20E+02	1.94E+02
Sample ID: 598981	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.18E+00	0.00E+00	3.18E+00
		Mn-54	<3.54E+00	0.00E+00	3.54E+00
		Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<7.87E+00	0.00E+00	7.87E+00
		Co-60	<3.75E+00	0.00E+00	3.75E+00
		Zn-65	<9.56E+00	0.00E+00	9.56E+00
		Zr-95	<7.94E+00	0.00E+00	7.94E+00
		Nb-95	<5.55E+00	0.00E+00	5.55E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<4.07E+00	0.00E+00	4.07E+00
		Cs-137	<3.90E+00	0.00E+00	3.90E+00
		BaLa-140	<9.92E+00	0.00E+00	9.92E+00
		Be-7	<2.79E+01	0.00E+00	2.79E+01
		K-40	8.51E+01	3.99E+01	5.05E+01
Sample ID: 601219	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.29E+00	0.00E+00	3.29E+00
		Mn-54	<3.64E+00	0.00E+00	3.64E+00
		Co-58	<3.56E+00	0.00E+00	3.56E+00
		Fe-59	<6.35E+00	0.00E+00	6.35E+00
		Co-60	<3.30E+00	0.00E+00	3.30E+00
		Zn-65	<7.58E+00	0.00E+00	7.58E+00
		Zr-95	<5.38E+00	0.00E+00	5.38E+00
		Nb-95	<3.32E+00	0.00E+00	3.32E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.31E+00	0.00E+00	3.31E+00
		Cs-137	<2.90E+00	0.00E+00	2.90E+00
		BaLa-140	<6.42E+00	0.00E+00	6.42E+00
		Be-7	<2.69E+01	0.00E+00	2.69E+01
		K-40	1.16E+02	4.17E+01	5.03E+01
Sample ID: 602645	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Beta	<3.17E+00	0.00E+00	3.17E+00
		Mn-54	<2.11E+00	0.00E+00	2.11E+00
		Co-58	<2.66E+00	0.00E+00	2.66E+00
		Fe-59	<4.89E+00	0.00E+00	4.89E+00
		Co-60	<1.93E+00	0.00E+00	1.93E+00
		Zn-65	<4.67E+00	0.00E+00	4.67E+00
		Zr-95	<3.79E+00	0.00E+00	3.79E+00
		Nb-95	<2.89E+00	0.00E+00	2.89E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.26E+00	0.00E+00	2.26E+00
		Cs-137	<2.26E+00	0.00E+00	2.26E+00
		BaLa-140	<5.44E+00	0.00E+00	5.44E+00
		Be-7	<2.24E+01	0.00E+00	2.24E+01
		K-40	1.02E+02	2.77E+01	3.23E+01
Sample ID: 603899	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	2.85E+02	1.16E+02	1.83E+02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 060 [CONTROL FISH / INDICATOR - NE @ 3.23 miles]

Sample ID:	587636	Sample Dates:	3/28/2023 - 3/28/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.64E+01	0.00E+00	7.64E+01
					Co-58	<6.70E+01	0.00E+00	6.70E+01
					Fe-59	<1.31E+02	0.00E+00	1.31E+02
					Co-60	<7.66E+01	0.00E+00	7.66E+01
					Zn-65	<1.06E+02	0.00E+00	1.06E+02
					Nb-95	<7.30E+01	0.00E+00	7.30E+01
					I-131	<1.10E+02	0.00E+00	1.10E+02
					Cs-134	<9.65E+01	0.00E+00	9.65E+01
					Cs-137	<8.09E+01	0.00E+00	8.09E+01
					Be-7	<6.10E+02	0.00E+00	6.10E+02
					K-40	5.26E+03	1.35E+03	1.09E+03
					Ag-110M	<6.39E+01	0.00E+00	6.39E+01
					Sb-122	<4.84E+02	0.00E+00	4.84E+02
					Sb-125	<2.34E+02	0.00E+00	2.34E+02

Sample ID:	587637	Sample Dates:	3/28/2023 - 3/28/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.71E+01	0.00E+00	5.71E+01
					Co-58	<4.24E+01	0.00E+00	4.24E+01
					Fe-59	<6.71E+01	0.00E+00	6.71E+01
					Co-60	<8.50E+01	0.00E+00	8.50E+01
					Zn-65	<1.98E+02	0.00E+00	1.98E+02
					Nb-95	<7.03E+01	0.00E+00	7.03E+01
					I-131	<8.41E+01	0.00E+00	8.41E+01
					Cs-134	<6.39E+01	0.00E+00	6.39E+01
					Cs-137	<6.97E+01	0.00E+00	6.97E+01
					Be-7	<4.15E+02	0.00E+00	4.15E+02
					K-40	4.28E+03	1.02E+03	1.45E+02
					Ag-110M	<6.29E+01	0.00E+00	6.29E+01
					Sb-122	<4.19E+02	0.00E+00	4.19E+02
					Sb-125	<1.43E+02	0.00E+00	1.43E+02

Sample ID:	597721	Sample Dates:	10/10/2023 - 10/10/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.41E+01	0.00E+00	7.41E+01
					Co-58	<7.03E+01	0.00E+00	7.03E+01
					Fe-59	<1.22E+02	0.00E+00	1.22E+02
					Co-60	<4.63E+01	0.00E+00	4.63E+01
					Zn-65	<1.07E+02	0.00E+00	1.07E+02
					Nb-95	<5.45E+01	0.00E+00	5.45E+01
					I-131	<1.17E+02	0.00E+00	1.17E+02
					Cs-134	<5.63E+01	0.00E+00	5.63E+01
					Cs-137	<6.06E+01	0.00E+00	6.06E+01
					Be-7	<5.46E+02	0.00E+00	5.46E+02
					K-40	4.12E+03	1.10E+03	1.02E+03
					Ag-110M	<3.78E+01	0.00E+00	3.78E+01
					Sb-122	<4.71E+02	0.00E+00	4.71E+02
					Sb-125	<1.70E+02	0.00E+00	1.70E+02

Sample ID:	597722	Sample Dates:	10/11/2023 - 10/11/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.53E+01	0.00E+00	6.53E+01
					Co-58	<5.72E+01	0.00E+00	5.72E+01
					Fe-59	<1.32E+02	0.00E+00	1.32E+02
					Co-60	<8.06E+01	0.00E+00	8.06E+01
					Zn-65	<1.22E+02	0.00E+00	1.22E+02
					Nb-95	<5.88E+01	0.00E+00	5.88E+01
					I-131	<1.10E+02	0.00E+00	1.10E+02
					Cs-134	<6.47E+01	0.00E+00	6.47E+01
					Cs-137	<6.59E+01	0.00E+00	6.59E+01
					Be-7	<5.10E+02	0.00E+00	5.10E+02
					K-40	3.71E+03	9.85E+02	8.03E+02
					Ag-110M	<5.32E+01	0.00E+00	5.32E+01
					Sb-122	<5.88E+02	0.00E+00	5.88E+02
					Sb-125	<1.56E+02	0.00E+00	1.56E+02

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	587638	Sample Dates:	3/27/2023 - 3/27/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.77E+01	0.00E+00	8.77E+01
					Co-58	<6.83E+01	0.00E+00	6.83E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	587638	Sample Dates:	3/27/2023 - 3/27/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Fe-59	<1.13E+02	0.00E+00	1.13E+02
					Co-60	<7.30E+01	0.00E+00	7.30E+01
					Zn-65	<1.31E+02	0.00E+00	1.31E+02
					Nb-95	<7.83E+01	0.00E+00	7.83E+01
					I-131	<9.08E+01	0.00E+00	9.08E+01
					Cs-134	<8.83E+01	0.00E+00	8.83E+01
					Cs-137	<7.97E+01	0.00E+00	7.97E+01
					Be-7	<6.44E+02	0.00E+00	6.44E+02
					K-40	4.80E+03	1.31E+03	1.21E+03
					Ag-110M	<5.76E+01	0.00E+00	5.76E+01
					Sb-122	<5.01E+02	0.00E+00	5.01E+02
					Sb-125	<1.91E+02	0.00E+00	1.91E+02

Sample ID:	587639	Sample Dates:	3/28/2023 - 3/28/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.29E+01	0.00E+00	3.29E+01
					Co-58	<5.84E+01	0.00E+00	5.84E+01
					Fe-59	<1.27E+02	0.00E+00	1.27E+02
					Co-60	<6.53E+01	0.00E+00	6.53E+01
					Zn-65	<1.06E+02	0.00E+00	1.06E+02
					Nb-95	<6.29E+01	0.00E+00	6.29E+01
					I-131	<7.74E+01	0.00E+00	7.74E+01
					Cs-134	<4.77E+01	0.00E+00	4.77E+01
					Cs-137	<3.73E+01	0.00E+00	3.73E+01
					Be-7	<4.12E+02	0.00E+00	4.12E+02
					K-40	3.65E+03	9.82E+02	7.58E+02
					Ag-110M	<4.70E+01	0.00E+00	4.70E+01
					Sb-122	<3.88E+02	0.00E+00	3.88E+02
					Sb-125	<1.45E+02	0.00E+00	1.45E+02

Sample ID:	597723	Sample Dates:	10/11/2023 - 10/11/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.08E+01	0.00E+00	6.08E+01
					Co-58	<5.68E+01	0.00E+00	5.68E+01
					Fe-59	<1.23E+02	0.00E+00	1.23E+02
					Co-60	<5.51E+01	0.00E+00	5.51E+01
					Zn-65	<8.47E+01	0.00E+00	8.47E+01
					Nb-95	<6.47E+01	0.00E+00	6.47E+01
					I-131	<1.04E+02	0.00E+00	1.04E+02
					Cs-134	<6.47E+01	0.00E+00	6.47E+01
					Cs-137	<6.17E+01	0.00E+00	6.17E+01
					Be-7	<3.77E+02	0.00E+00	3.77E+02
					K-40	5.49E+03	1.21E+03	7.61E+02
					Ag-110M	<5.08E+01	0.00E+00	5.08E+01
					Sb-122	<4.26E+02	0.00E+00	4.26E+02
					Sb-125	<1.31E+02	0.00E+00	1.31E+02

Sample ID:	597724	Sample Dates:	10/11/2023 - 10/11/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.11E+01	0.00E+00	5.11E+01
					Co-58	<6.26E+01	0.00E+00	6.26E+01
					Fe-59	<9.31E+01	0.00E+00	9.31E+01
					Co-60	<5.45E+01	0.00E+00	5.45E+01
					Zn-65	<1.09E+02	0.00E+00	1.09E+02
					Nb-95	<7.24E+01	0.00E+00	7.24E+01
					I-131	<1.09E+02	0.00E+00	1.09E+02
					Cs-134	<7.35E+01	0.00E+00	7.35E+01
					Cs-137	<6.86E+01	0.00E+00	6.86E+01
					Be-7	<4.12E+02	0.00E+00	4.12E+02
					K-40	3.80E+03	9.84E+02	6.78E+02
					Ag-110M	<5.30E+01	0.00E+00	5.30E+01
					Sb-122	<3.15E+02	0.00E+00	3.15E+02
					Sb-125	<1.49E+02	0.00E+00	1.49E+02

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	587640	Sample Dates:	3/27/2023 - 3/27/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.10E+01	0.00E+00	5.10E+01
					Co-58	<4.93E+01	0.00E+00	4.93E+01
					Fe-59	<7.88E+01	0.00E+00	7.88E+01
					Co-60	<2.79E+01	0.00E+00	2.79E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	587640	Sample Dates:	3/27/2023 - 3/27/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<1.02E+02	0.00E+00	1.02E+02
					Nb-95	<5.70E+01	0.00E+00	5.70E+01
					I-131	<9.39E+01	0.00E+00	9.39E+01
					Cs-134	<3.64E+01	0.00E+00	3.64E+01
					Cs-137	<4.96E+01	0.00E+00	4.96E+01
					Be-7	<3.29E+02	0.00E+00	3.29E+02
					K-40	3.98E+03	8.96E+02	6.01E+02
					Ag-110M	<3.79E+01	0.00E+00	3.79E+01
					Sb-122	<3.80E+02	0.00E+00	3.80E+02
					Sb-125	<1.26E+02	0.00E+00	1.26E+02

Sample ID:	587641	Sample Dates:	3/28/2023 - 3/28/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.11E+01	0.00E+00	5.11E+01
					Co-58	<5.65E+01	0.00E+00	5.65E+01
					Fe-59	<1.30E+02	0.00E+00	1.30E+02
					Co-60	<5.43E+01	0.00E+00	5.43E+01
					Zn-65	<1.76E+02	0.00E+00	1.76E+02
					Nb-95	<6.99E+01	0.00E+00	6.99E+01
					I-131	<9.54E+01	0.00E+00	9.54E+01
					Cs-134	<6.43E+01	0.00E+00	6.43E+01
					Cs-137	<6.64E+01	0.00E+00	6.64E+01
					Be-7	<5.27E+02	0.00E+00	5.27E+02
					K-40	4.29E+03	1.17E+03	1.16E+03
					Ag-110M	<5.31E+01	0.00E+00	5.31E+01
					Sb-122	<4.94E+02	0.00E+00	4.94E+02
					Sb-125	<1.57E+02	0.00E+00	1.57E+02

Sample ID:	597725	Sample Dates:	10/11/2023 - 10/11/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.58E+01	0.00E+00	5.58E+01
					Co-58	<6.43E+01	0.00E+00	6.43E+01
					Fe-59	<1.25E+02	0.00E+00	1.25E+02
					Co-60	<6.76E+01	0.00E+00	6.76E+01
					Zn-65	<1.30E+02	0.00E+00	1.30E+02
					Nb-95	<5.59E+01	0.00E+00	5.59E+01
					I-131	<1.01E+02	0.00E+00	1.01E+02
					Cs-134	<7.82E+01	0.00E+00	7.82E+01
					Cs-137	<8.14E+01	0.00E+00	8.14E+01
					Be-7	<4.65E+02	0.00E+00	4.65E+02
					K-40	4.90E+03	1.21E+03	1.05E+03
					Ag-110M	<6.59E+01	0.00E+00	6.59E+01
					Sb-122	<4.73E+02	0.00E+00	4.73E+02
					Sb-125	<1.49E+02	0.00E+00	1.49E+02

Sample ID:	597726	Sample Dates:	10/11/2023 - 10/11/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.33E+01	0.00E+00	7.33E+01
					Co-58	<6.11E+01	0.00E+00	6.11E+01
					Fe-59	<1.11E+02	0.00E+00	1.11E+02
					Co-60	<7.43E+01	0.00E+00	7.43E+01
					Zn-65	<9.50E+01	0.00E+00	9.50E+01
					Nb-95	<8.64E+01	0.00E+00	8.64E+01
					I-131	<1.04E+02	0.00E+00	1.04E+02
					Cs-134	<7.18E+01	0.00E+00	7.18E+01
					Cs-137	<5.17E+01	0.00E+00	5.17E+01
					Be-7	<4.74E+02	0.00E+00	4.74E+02
					K-40	4.58E+03	1.16E+03	1.03E+03
					Ag-110M	<5.64E+01	0.00E+00	5.64E+01
					Sb-122	<4.66E+02	0.00E+00	4.66E+02
					Sb-125	<1.75E+02	0.00E+00	1.75E+02

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 061 [INDICATOR - E @ 4.18 miles]

Sample ID:	585282	Sample Dates:	2/27/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.95E-01	0.00E+00	7.95E-01
				I-131	<7.90E+00	0.00E+00	7.90E+00
				Cs-134	<7.79E+00	0.00E+00	7.79E+00
				Cs-137	<8.17E+00	0.00E+00	8.17E+00
				BaLa-140	<7.75E+00	0.00E+00	7.75E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 061 [INDICATOR - E @ 4.18 miles]

Sample ID: 585282	Sample Dates: 2/27/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<6.36E+01	0.00E+00	6.36E+01
		K-40	1.87E+03	2.68E+02	1.80E+01
Sample ID: 585787	Sample Dates: 3/13/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.46E-01	0.00E+00	7.46E-01
		I-131	<6.77E+00	0.00E+00	6.77E+00
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<9.83E+00	0.00E+00	9.83E+00
		BaLa-140	<5.98E+00	0.00E+00	5.98E+00
		Be-7	<6.18E+01	0.00E+00	6.18E+01
		K-40	1.79E+03	2.68E+02	1.30E+02
Sample ID: 586640	Sample Dates: 3/27/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.98E-01	0.00E+00	7.98E-01
		I-131	<8.27E+00	0.00E+00	8.27E+00
		Cs-134	<7.96E+00	0.00E+00	7.96E+00
		Cs-137	<6.18E+00	0.00E+00	6.18E+00
		BaLa-140	<9.84E+00	0.00E+00	9.84E+00
		Be-7	<5.35E+01	0.00E+00	5.35E+01
		K-40	1.95E+03	2.79E+02	1.02E+02
Sample ID: 587165	Sample Dates: 4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<8.11E-01	0.00E+00	8.11E-01
		I-131	<7.96E+00	0.00E+00	7.96E+00
		Cs-134	<7.95E+00	0.00E+00	7.95E+00
		Cs-137	<5.66E+00	0.00E+00	5.66E+00
		BaLa-140	<5.99E+00	0.00E+00	5.99E+00
		Be-7	<4.81E+01	0.00E+00	4.81E+01
		K-40	1.93E+03	2.77E+02	1.02E+02
Sample ID: 587737	Sample Dates: 4/24/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.16E-01	0.00E+00	7.16E-01
		I-131	<7.96E+00	0.00E+00	7.96E+00
		Cs-134	<9.56E+00	0.00E+00	9.56E+00
		Cs-137	<8.44E+00	0.00E+00	8.44E+00
		BaLa-140	<6.11E+00	0.00E+00	6.11E+00
		Be-7	<4.81E+01	0.00E+00	4.81E+01
		K-40	2.08E+03	2.95E+02	1.41E+02
Sample ID: 588569	Sample Dates: 5/8/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.96E-01	0.00E+00	7.96E-01
		I-131	<7.01E+00	0.00E+00	7.01E+00
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<7.67E+00	0.00E+00	7.67E+00
		BaLa-140	<6.40E+00	0.00E+00	6.40E+00
		Be-7	<5.96E+01	0.00E+00	5.96E+01
		K-40	1.86E+03	2.72E+02	1.88E+01
Sample ID: 589731	Sample Dates: 5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<8.00E-01	0.00E+00	8.00E-01
		I-131	<7.76E+00	0.00E+00	7.76E+00
		Cs-134	<7.19E+00	0.00E+00	7.19E+00
		Cs-137	<8.08E+00	0.00E+00	8.08E+00
		BaLa-140	<2.25E+00	0.00E+00	2.25E+00
		Be-7	<5.09E+01	0.00E+00	5.09E+01
		K-40	1.75E+03	2.62E+02	1.16E+02
Sample ID: 590319	Sample Dates: 6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<8.05E-01	0.00E+00	8.05E-01
		I-131	<6.54E+00	0.00E+00	6.54E+00
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<5.69E+00	0.00E+00	5.69E+00
		BaLa-140	<2.21E+00	0.00E+00	2.21E+00
		Be-7	<5.76E+01	0.00E+00	5.76E+01
		K-40	1.96E+03	2.77E+02	8.39E+01
Sample ID: 590620	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.49E-01	0.00E+00	7.49E-01
		I-131	<7.20E+00	0.00E+00	7.20E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 061 [INDICATOR - E @ 4.18 miles]

Sample ID: 590620	Sample Dates: 6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<8.40E+00	0.00E+00	8.40E+00
		Cs-137	<6.18E+00	0.00E+00	6.18E+00
		BaLa-140	<5.98E+00	0.00E+00	5.98E+00
		Be-7	<3.85E+01	0.00E+00	3.85E+01
		K-40	2.14E+03	2.97E+02	1.06E+02

Sample ID: 591417	Sample Dates: 7/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.12E-01	0.00E+00	7.12E-01
		I-131	<7.00E+00	0.00E+00	7.00E+00
		Cs-134	<9.55E+00	0.00E+00	9.55E+00
		Cs-137	<6.83E+00	0.00E+00	6.83E+00
		BaLa-140	<8.55E+00	0.00E+00	8.55E+00
		Be-7	<5.75E+01	0.00E+00	5.75E+01
		K-40	2.00E+03	2.78E+02	1.79E+01

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID: 582736	Sample Dates: 1/3/2023 - 1/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.91E-01	0.00E+00	7.91E-01
		I-131	<6.98E+00	0.00E+00	6.98E+00
		Cs-134	<7.96E+00	0.00E+00	7.96E+00
		Cs-137	<7.48E+00	0.00E+00	7.48E+00
		BaLa-140	<7.57E+00	0.00E+00	7.57E+00
		Be-7	<4.82E+01	0.00E+00	4.82E+01
		K-40	1.48E+03	2.35E+02	1.01E+02

Sample ID: 583202	Sample Dates: 1/17/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.29E-01	0.00E+00	7.29E-01
		I-131	<7.49E+00	0.00E+00	7.49E+00
		Cs-134	<8.41E+00	0.00E+00	8.41E+00
		Cs-137	<7.08E+00	0.00E+00	7.08E+00
		BaLa-140	<8.77E+00	0.00E+00	8.77E+00
		Be-7	<5.34E+01	0.00E+00	5.34E+01
		K-40	1.42E+03	2.34E+02	1.34E+02

Sample ID: 584280	Sample Dates: 1/30/2023 - 1/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.96E-01	0.00E+00	7.96E-01
		I-131	<9.18E+00	0.00E+00	9.18E+00
		Cs-134	<9.22E+00	0.00E+00	9.22E+00
		Cs-137	<1.02E+01	0.00E+00	1.02E+01
		BaLa-140	<8.68E+00	0.00E+00	8.68E+00
		Be-7	<4.03E+01	0.00E+00	4.03E+01
		K-40	1.36E+03	2.25E+02	1.07E+02

Sample ID: 585416	Sample Dates: 2/13/2023 - 2/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.85E-01	0.00E+00	7.85E-01
		I-131	<6.46E+00	0.00E+00	6.46E+00
		Cs-134	<5.95E+00	0.00E+00	5.95E+00
		Cs-137	<6.42E+00	0.00E+00	6.42E+00
		BaLa-140	<6.21E+00	0.00E+00	6.21E+00
		Be-7	<5.71E+01	0.00E+00	5.71E+01
		K-40	1.43E+03	2.26E+02	1.80E+01

Sample ID: 585872	Sample Dates: 2/27/2023 - 2/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.12E-01	0.00E+00	7.12E-01
		I-131	<5.96E+00	0.00E+00	5.96E+00
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<8.26E+00	0.00E+00	8.26E+00
		BaLa-140	<9.80E+00	0.00E+00	9.80E+00
		Be-7	<5.98E+01	0.00E+00	5.98E+01
		K-40	1.41E+03	2.27E+02	1.02E+02

Sample ID: 586735	Sample Dates: 3/13/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.79E-01	0.00E+00	7.79E-01
		I-131	<6.39E+00	0.00E+00	6.39E+00
		Cs-134	<7.79E+00	0.00E+00	7.79E+00
		Cs-137	<7.78E+00	0.00E+00	7.78E+00
		BaLa-140	<2.27E+00	0.00E+00	2.27E+00
		Be-7	<4.29E+01	0.00E+00	4.29E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	586735	Sample Dates:	3/13/2023 - 3/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	1.37E+03	2.25E+02	1.01E+02
Sample ID:	587250	Sample Dates:	3/27/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.98E-01	0.00E+00	7.98E-01
				I-131	<7.33E+00	0.00E+00	7.33E+00
				Cs-134	<1.04E+01	0.00E+00	1.04E+01
				Cs-137	<8.17E+00	0.00E+00	8.17E+00
				BaLa-140	<2.29E+00	0.00E+00	2.29E+00
				Be-7	<4.92E+01	0.00E+00	4.92E+01
				K-40	1.50E+03	2.40E+02	1.15E+02
Sample ID:	587835	Sample Dates:	4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<6.56E+00	0.00E+00	6.56E+00
				Cs-134	<7.19E+00	0.00E+00	7.19E+00
				Cs-137	<5.22E+00	0.00E+00	5.22E+00
				BaLa-140	<7.75E+00	0.00E+00	7.75E+00
				Be-7	<5.59E+01	0.00E+00	5.59E+01
				K-40	1.40E+03	2.33E+02	1.35E+02
				LLI-131	<5.23E-01	0.00E+00	5.23E-01
Sample ID:	588648	Sample Dates:	4/24/2023 - 4/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.52E-01	0.00E+00	7.52E-01
				I-131	<5.04E+00	0.00E+00	5.04E+00
				Cs-134	<7.79E+00	0.00E+00	7.79E+00
				Cs-137	<9.22E+00	0.00E+00	9.22E+00
				BaLa-140	<2.27E+00	0.00E+00	2.27E+00
				Be-7	<5.70E+01	0.00E+00	5.70E+01
				K-40	1.38E+03	2.27E+02	1.06E+02
Sample ID:	589868	Sample Dates:	5/8/2023 - 5/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.52E-01	0.00E+00	7.52E-01
				I-131	<8.72E+00	0.00E+00	8.72E+00
				Cs-134	<7.01E+00	0.00E+00	7.01E+00
				Cs-137	<6.78E+00	0.00E+00	6.78E+00
				BaLa-140	<9.61E+00	0.00E+00	9.61E+00
				Be-7	<5.20E+01	0.00E+00	5.20E+01
				K-40	1.61E+03	2.53E+02	8.83E+01
Sample ID:	590410	Sample Dates:	5/22/2023 - 5/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.89E-01	0.00E+00	7.89E-01
				I-131	<6.43E+00	0.00E+00	6.43E+00
				Cs-134	<7.47E+00	0.00E+00	7.47E+00
				Cs-137	<6.18E+00	0.00E+00	6.18E+00
				BaLa-140	<8.79E+00	0.00E+00	8.79E+00
				Be-7	<4.52E+01	0.00E+00	4.52E+01
				K-40	1.69E+03	2.54E+02	8.89E+01
Sample ID:	590710	Sample Dates:	6/5/2023 - 6/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<5.62E-01	0.00E+00	5.62E-01
				I-131	<6.42E+00	0.00E+00	6.42E+00
				Cs-134	<8.35E+00	0.00E+00	8.35E+00
				Cs-137	<5.29E+00	0.00E+00	5.29E+00
				BaLa-140	<2.31E+00	0.00E+00	2.31E+00
				Be-7	<5.93E+01	0.00E+00	5.93E+01
				K-40	1.44E+03	2.38E+02	1.31E+02
Sample ID:	591498	Sample Dates:	6/19/2023 - 6/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<9.89E-01	0.00E+00	9.89E-01
				I-131	<6.55E+00	0.00E+00	6.55E+00
				Cs-134	<5.10E+00	0.00E+00	5.10E+00
				Cs-137	<5.82E+00	0.00E+00	5.82E+00
				BaLa-140	<7.74E+00	0.00E+00	7.74E+00
				Be-7	<5.35E+01	0.00E+00	5.35E+01
				K-40	1.69E+03	2.54E+02	9.56E+01
Sample ID:	591906	Sample Dates:	7/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<7.98E-01	0.00E+00	7.98E-01
				I-131	<7.65E+00	0.00E+00	7.65E+00
				Cs-134	<6.94E+00	0.00E+00	6.94E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID: 591906	Sample Dates: 7/3/2023 - 7/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<5.07E+00	0.00E+00	5.07E+00
		BaLa-140	<2.11E+00	0.00E+00	2.11E+00
		Be-7	<4.76E+01	0.00E+00	4.76E+01
		K-40	1.57E+03	2.41E+02	7.94E+01
Sample ID: 592466	Sample Dates: 7/17/2023 - 7/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.87E-01	0.00E+00	7.87E-01
		I-131	<8.18E+00	0.00E+00	8.18E+00
		Cs-134	<7.95E+00	0.00E+00	7.95E+00
		Cs-137	<5.66E+00	0.00E+00	5.66E+00
		BaLa-140	<7.56E+00	0.00E+00	7.56E+00
		Be-7	<5.09E+01	0.00E+00	5.09E+01
Sample ID: 593230	Sample Dates: 7/31/2023 - 7/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.58E-01	0.00E+00	7.58E-01
		I-131	<7.33E+00	0.00E+00	7.33E+00
		Cs-134	<9.57E+00	0.00E+00	9.57E+00
		Cs-137	<7.28E+00	0.00E+00	7.28E+00
		BaLa-140	<9.39E+00	0.00E+00	9.39E+00
		Be-7	<5.40E+01	0.00E+00	5.40E+01
Sample ID: 593864	Sample Dates: 8/14/2023 - 8/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.78E-01	0.00E+00	7.78E-01
		I-131	<9.34E+00	0.00E+00	9.34E+00
		Cs-134	<6.37E+00	0.00E+00	6.37E+00
		Cs-137	<7.08E+00	0.00E+00	7.08E+00
		BaLa-140	<6.30E+00	0.00E+00	6.30E+00
		Be-7	<5.15E+01	0.00E+00	5.15E+01
Sample ID: 594851	Sample Dates: 8/28/2023 - 8/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.59E-01	0.00E+00	7.59E-01
		I-131	<7.09E+00	0.00E+00	7.09E+00
		Cs-134	<1.03E+01	0.00E+00	1.03E+01
		Cs-137	<6.84E+00	0.00E+00	6.84E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
		Be-7	<5.15E+01	0.00E+00	5.15E+01
Sample ID: 595697	Sample Dates: 9/11/2023 - 9/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.87E-01	0.00E+00	7.87E-01
		I-131	<7.87E+00	0.00E+00	7.87E+00
		Cs-134	<6.59E+00	0.00E+00	6.59E+00
		Cs-137	<6.35E+00	0.00E+00	6.35E+00
		BaLa-140	<6.17E+00	0.00E+00	6.17E+00
		Be-7	<5.35E+01	0.00E+00	5.35E+01
Sample ID: 596840	Sample Dates: 9/25/2023 - 9/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.39E-01	0.00E+00	7.39E-01
		I-131	<7.63E+00	0.00E+00	7.63E+00
		Cs-134	<6.59E+00	0.00E+00	6.59E+00
		Cs-137	<8.79E+00	0.00E+00	8.79E+00
		BaLa-140	<7.78E+00	0.00E+00	7.78E+00
		Be-7	<6.66E+01	0.00E+00	6.66E+01
Sample ID: 597924	Sample Dates: 10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.32E-01	0.00E+00	7.32E-01
		I-131	<6.46E+00	0.00E+00	6.46E+00
		Cs-134	<1.05E+01	0.00E+00	1.05E+01
		Cs-137	<7.79E+00	0.00E+00	7.79E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<4.92E+01	0.00E+00	4.92E+01
Sample ID: 597924	Sample Dates: 10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		K-40	1.21E+03	2.12E+02	1.01E+02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID: 598921	Sample Dates: 10/23/2023 - 10/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.12E-01	0.00E+00	7.12E-01
		I-131	<7.81E+00	0.00E+00	7.81E+00
		Cs-134	<7.48E+00	0.00E+00	7.48E+00
		Cs-137	<6.65E+00	0.00E+00	6.65E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<6.10E+01	0.00E+00	6.10E+01
		K-40	1.28E+03	2.13E+02	7.71E+01
Sample ID: 599526	Sample Dates: 11/6/2023 - 11/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.07E-01	0.00E+00	7.07E-01
		I-131	<7.52E+00	0.00E+00	7.52E+00
		Cs-134	<8.41E+00	0.00E+00	8.41E+00
		Cs-137	<6.65E+00	0.00E+00	6.65E+00
		BaLa-140	<6.29E+00	0.00E+00	6.29E+00
		Be-7	<4.57E+01	0.00E+00	4.57E+01
		K-40	1.39E+03	2.31E+02	1.30E+02
Sample ID: 601178	Sample Dates: 11/20/2023 - 11/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.78E-01	0.00E+00	7.78E-01
		I-131	<6.78E+00	0.00E+00	6.78E+00
		Cs-134	<8.76E+00	0.00E+00	8.76E+00
		Cs-137	<6.91E+00	0.00E+00	6.91E+00
		BaLa-140	<8.67E+00	0.00E+00	8.67E+00
		Be-7	<5.14E+01	0.00E+00	5.14E+01
		K-40	1.67E+03	2.53E+02	9.03E+01
Sample ID: 601845	Sample Dates: 12/4/2023 - 12/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<7.30E-01	0.00E+00	7.30E-01
		I-131	<6.62E+00	0.00E+00	6.62E+00
		Cs-134	<8.71E+00	0.00E+00	8.71E+00
		Cs-137	<8.79E+00	0.00E+00	8.79E+00
		BaLa-140	<6.18E+00	0.00E+00	6.18E+00
		Be-7	<5.83E+01	0.00E+00	5.83E+01
		K-40	1.44E+03	2.31E+02	1.06E+02
Sample ID: 602562	Sample Dates: 12/18/2023 - 12/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.61E-01	0.00E+00	6.61E-01
		I-131	<7.87E+00	0.00E+00	7.87E+00
		Cs-134	<8.71E+00	0.00E+00	8.71E+00
		Cs-137	<7.28E+00	0.00E+00	7.28E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<5.35E+01	0.00E+00	5.35E+01
		K-40	1.58E+03	2.48E+02	1.29E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID: 586736	Sample Dates: 4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.76E+01	0.00E+00	7.76E+01
		Co-58	<5.84E+01	0.00E+00	5.84E+01
		Fe-59	<1.27E+02	0.00E+00	1.27E+02
		Co-60	<6.89E+01	0.00E+00	6.89E+01
		Zn-65	<1.41E+02	0.00E+00	1.41E+02
		Zr-95	<1.64E+02	0.00E+00	1.64E+02
		Nb-95	<7.25E+01	0.00E+00	7.25E+01
		I-131	<1.14E+02	0.00E+00	1.14E+02
		Cs-134	<9.85E+01	0.00E+00	9.85E+01
		Cs-137	<8.61E+01	0.00E+00	8.61E+01
		Be-7	4.45E+02	4.85E+02	7.84E+02
		K-40	1.04E+04	1.80E+03	9.84E+02
		Co-57	<5.38E+01	0.00E+00	5.38E+01
		Mo-99	<3.40E+03	0.00E+00	3.40E+03
		Ag-110M	<6.86E+01	0.00E+00	6.86E+01
		Sb-122	<4.29E+02	0.00E+00	4.29E+02
		Sb-125	<1.58E+02	0.00E+00	1.58E+02
Sample ID: 595698	Sample Dates: 10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.93E+01	0.00E+00	5.93E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	595698	Sample Dates:	10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Co-58	<4.44E+01	0.00E+00	4.44E+01
				Fe-59	<1.28E+02	0.00E+00	1.28E+02
				Co-60	<7.01E+01	0.00E+00	7.01E+01
				Zn-65	<1.25E+02	0.00E+00	1.25E+02
				Zr-95	<1.30E+02	0.00E+00	1.30E+02
				Nb-95	<6.87E+01	0.00E+00	6.87E+01
				I-131	<8.61E+01	0.00E+00	8.61E+01
				Cs-134	<8.72E+01	0.00E+00	8.72E+01
				Cs-137	<4.89E+01	0.00E+00	4.89E+01
				Be-7	<5.25E+02	0.00E+00	5.25E+02
				K-40	1.05E+04	1.68E+03	1.34E+02
				Co-57	<4.58E+01	0.00E+00	4.58E+01
				Mo-99	<2.34E+03	0.00E+00	2.34E+03
				Ag-110M	<5.90E+01	0.00E+00	5.90E+01
				Sb-122	<4.41E+02	0.00E+00	4.41E+02
				Sb-125	<1.39E+02	0.00E+00	1.39E+02

Sample Point 068 [CONTROL - W @ 1.82 miles]

Sample ID:	586737	Sample Dates:	4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.01E+01	0.00E+00	5.01E+01
				Co-58	<3.97E+01	0.00E+00	3.97E+01
				Fe-59	<1.02E+02	0.00E+00	1.02E+02
				Co-60	<5.32E+01	0.00E+00	5.32E+01
				Zn-65	<1.25E+02	0.00E+00	1.25E+02
				Zr-95	<9.69E+01	0.00E+00	9.69E+01
				Nb-95	<6.59E+01	0.00E+00	6.59E+01
				I-131	<7.82E+01	0.00E+00	7.82E+01
				Cs-134	<5.21E+01	0.00E+00	5.21E+01
				Cs-137	<6.02E+01	0.00E+00	6.02E+01
				Be-7	<4.04E+02	0.00E+00	4.04E+02
				K-40	8.22E+03	1.45E+03	5.24E+02
				Co-57	<3.63E+01	0.00E+00	3.63E+01
				Mo-99	<2.63E+03	0.00E+00	2.63E+03
				Ag-110M	<3.75E+01	0.00E+00	3.75E+01
				Sb-122	<3.61E+02	0.00E+00	3.61E+02
				Sb-125	<1.45E+02	0.00E+00	1.45E+02

Sample ID:	595699	Sample Dates:	10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.15E+01	0.00E+00	4.15E+01
				Co-58	<4.69E+01	0.00E+00	4.69E+01
				Fe-59	<9.89E+01	0.00E+00	9.89E+01
				Co-60	<6.79E+01	0.00E+00	6.79E+01
				Zn-65	<9.25E+01	0.00E+00	9.25E+01
				Zr-95	<9.41E+01	0.00E+00	9.41E+01
				Nb-95	<7.38E+01	0.00E+00	7.38E+01
				I-131	<9.20E+01	0.00E+00	9.20E+01
				Cs-134	<4.64E+01	0.00E+00	4.64E+01
				Cs-137	<4.41E+01	0.00E+00	4.41E+01
				Be-7	<5.19E+02	0.00E+00	5.19E+02
				K-40	5.51E+03	1.22E+03	9.11E+02
				Co-57	<3.73E+01	0.00E+00	3.73E+01
				Mo-99	<2.08E+03	0.00E+00	2.08E+03
				Ag-110M	<5.51E+01	0.00E+00	5.51E+01
				Sb-122	<4.29E+02	0.00E+00	4.29E+02
				Sb-125	<1.29E+02	0.00E+00	1.29E+02

Sample Point 091 [INDICATOR - S @ 2.09 miles]

Sample ID:	586738	Sample Dates:	4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.61E+01	0.00E+00	7.61E+01
				Co-58	<7.35E+01	0.00E+00	7.35E+01
				Fe-59	<1.41E+02	0.00E+00	1.41E+02
				Co-60	<9.10E+01	0.00E+00	9.10E+01
				Zn-65	<1.96E+02	0.00E+00	1.96E+02
				Zr-95	<1.29E+02	0.00E+00	1.29E+02
				Nb-95	<6.93E+01	0.00E+00	6.93E+01
				I-131	<1.21E+02	0.00E+00	1.21E+02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 091 [INDICATOR - S @ 2.09 miles]

Sample ID: 586738	Sample Dates: 4/10/2023 - 4/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.24E+02	0.00E+00	1.24E+02
		Cs-137	1.49E+02	8.06E+01	1.15E+02
		Be-7	<5.06E+02	0.00E+00	5.06E+02
		K-40	2.11E+04	2.84E+03	1.39E+03
		Co-57	<6.18E+01	0.00E+00	6.18E+01
		Mo-99	<3.51E+03	0.00E+00	3.51E+03
		Ag-110M	<5.15E+01	0.00E+00	5.15E+01
		Sb-122	<4.58E+02	0.00E+00	4.58E+02
		Sb-125	<1.97E+02	0.00E+00	1.97E+02

Sample ID: 595700	Sample Dates: 10/9/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.90E+01	0.00E+00	5.90E+01
		Co-58	<6.12E+01	0.00E+00	6.12E+01
		Fe-59	<1.36E+02	0.00E+00	1.36E+02
		Co-60	<4.92E+01	0.00E+00	4.92E+01
		Zn-65	<1.29E+02	0.00E+00	1.29E+02
		Zr-95	<8.32E+01	0.00E+00	8.32E+01
		Nb-95	<6.95E+01	0.00E+00	6.95E+01
		I-131	<1.00E+02	0.00E+00	1.00E+02
		Cs-134	<8.16E+01	0.00E+00	8.16E+01
		Cs-137	<7.60E+01	0.00E+00	7.60E+01
		Be-7	<5.37E+02	0.00E+00	5.37E+02
		K-40	1.80E+04	2.38E+03	9.01E+02
		Co-57	<4.63E+01	0.00E+00	4.63E+01
		Mo-99	<2.23E+03	0.00E+00	2.23E+03

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 583284	Sample Dates: 12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.89E+00	0.00E+00	2.89E+00
		Co-58	<3.30E+00	0.00E+00	3.30E+00
		Fe-59	<7.05E+00	0.00E+00	7.05E+00
		Co-60	<3.13E+00	0.00E+00	3.13E+00
		Zn-65	<6.07E+00	0.00E+00	6.07E+00
		Zr-95	<5.48E+00	0.00E+00	5.48E+00
		Nb-95	<3.92E+00	0.00E+00	3.92E+00
		I-131	<1.12E+01	0.00E+00	1.12E+01
		Cs-134	<3.69E+00	0.00E+00	3.69E+00
		Cs-137	<2.89E+00	0.00E+00	2.89E+00
		BaLa-140	<8.48E+00	0.00E+00	8.48E+00
		Be-7	<2.80E+01	0.00E+00	2.80E+01

Sample ID: 585478	Sample Dates: 1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.54E+00	0.00E+00	2.54E+00
		Co-58	<2.93E+00	0.00E+00	2.93E+00
		Fe-59	<5.05E+00	0.00E+00	5.05E+00
		Co-60	<2.19E+00	0.00E+00	2.19E+00
		Zn-65	<6.28E+00	0.00E+00	6.28E+00
		Zr-95	<5.37E+00	0.00E+00	5.37E+00
		Nb-95	<4.14E+00	0.00E+00	4.14E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.45E+00	0.00E+00	3.45E+00
		Cs-137	<3.10E+00	0.00E+00	3.10E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00

Sample ID: 586797	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.54E+00	0.00E+00	2.54E+00
		Co-58	<3.52E+00	0.00E+00	3.52E+00
		Fe-59	<6.40E+00	0.00E+00	6.40E+00
		Co-60	<3.70E+00	0.00E+00	3.70E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 586797	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Zr-95	<6.05E+00	0.00E+00	6.05E+00
		Nb-95	<3.02E+00	0.00E+00	3.02E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<2.82E+00	0.00E+00	2.82E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<6.11E+00	0.00E+00	6.11E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
Sample ID: 587738	Sample Dates: 12/27/2022 - 4/17/2023	K-40	5.50E+01	3.09E+01	4.19E+01
		H3SW	<-5.4E+01	0.00E+00	2.08E+02
Sample ID: 587937	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.54E+00	0.00E+00	3.54E+00
		Co-58	<4.10E+00	0.00E+00	4.10E+00
		Fe-59	<8.05E+00	0.00E+00	8.05E+00
		Co-60	<2.92E+00	0.00E+00	2.92E+00
		Zn-65	<8.33E+00	0.00E+00	8.33E+00
		Zr-95	<6.68E+00	0.00E+00	6.68E+00
		Nb-95	<3.58E+00	0.00E+00	3.58E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<4.25E+00	0.00E+00	4.25E+00
		Cs-137	<3.44E+00	0.00E+00	3.44E+00
		BaLa-140	<1.25E+01	0.00E+00	1.25E+01
		Be-7	<3.51E+01	0.00E+00	3.51E+01
		K-40	5.17E+01	2.66E+01	2.65E+01
Sample ID: 589950	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.17E+00	0.00E+00	3.17E+00
		Co-58	<3.34E+00	0.00E+00	3.34E+00
		Fe-59	<6.19E+00	0.00E+00	6.19E+00
		Co-60	<2.21E+00	0.00E+00	2.21E+00
		Zn-65	<6.86E+00	0.00E+00	6.86E+00
		Zr-95	<6.31E+00	0.00E+00	6.31E+00
		Nb-95	<3.40E+00	0.00E+00	3.40E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<2.95E+00	0.00E+00	2.95E+00
		Cs-137	<3.47E+00	0.00E+00	3.47E+00
		BaLa-140	<8.58E+00	0.00E+00	8.58E+00
		Be-7	<3.14E+01	0.00E+00	3.14E+01
		K-40	6.50E+01	6.36E+01	3.67E+01
Sample ID: 590812	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.09E+00	0.00E+00	3.09E+00
		Co-58	<3.79E+00	0.00E+00	3.79E+00
		Fe-59	<6.05E+00	0.00E+00	6.05E+00
		Co-60	<2.93E+00	0.00E+00	2.93E+00
		Zn-65	<6.37E+00	0.00E+00	6.37E+00
		Zr-95	<5.52E+00	0.00E+00	5.52E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.46E+00	0.00E+00	4.46E+00
		Cs-137	<3.19E+00	0.00E+00	3.19E+00
		BaLa-140	<8.82E+00	0.00E+00	8.82E+00
		Be-7	<3.04E+01	0.00E+00	3.04E+01
		K-40	7.80E+01	3.41E+01	4.44E+01
Sample ID: 592020	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.97E+00	0.00E+00	2.97E+00
		Co-58	<3.45E+00	0.00E+00	3.45E+00
		Fe-59	<9.17E+00	0.00E+00	9.17E+00
		Co-60	<3.95E+00	0.00E+00	3.95E+00
		Zn-65	<7.63E+00	0.00E+00	7.63E+00
		Zr-95	<6.62E+00	0.00E+00	6.62E+00
		Nb-95	<4.75E+00	0.00E+00	4.75E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<4.10E+00	0.00E+00	4.10E+00
		Cs-137	<3.01E+00	0.00E+00	3.01E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 592020	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<3.32E+01	0.00E+00	3.32E+01
		K-40	8.72E+01	3.77E+01	4.52E+01
Sample ID: 592165	Sample Dates: 4/17/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.02E+01	0.00E+00	1.91E+02
Sample ID: 593356	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.45E+00	0.00E+00	3.45E+00
		Co-58	<3.15E+00	0.00E+00	3.15E+00
		Fe-59	<8.34E+00	0.00E+00	8.34E+00
		Co-60	<4.21E+00	0.00E+00	4.21E+00
		Zn-65	<8.48E+00	0.00E+00	8.48E+00
		Zr-95	<7.80E+00	0.00E+00	7.80E+00
		Nb-95	<4.94E+00	0.00E+00	4.94E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.11E+00	0.00E+00	4.11E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<7.18E+00	0.00E+00	7.18E+00
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	<5.51E+01	0.00E+00	5.51E+01
Sample ID: 594909	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.18E+00	0.00E+00	2.18E+00
		Co-58	<3.20E+00	0.00E+00	3.20E+00
		Fe-59	<5.94E+00	0.00E+00	5.94E+00
		Co-60	<2.47E+00	0.00E+00	2.47E+00
		Zn-65	<5.50E+00	0.00E+00	5.50E+00
		Zr-95	<4.22E+00	0.00E+00	4.22E+00
		Nb-95	<3.11E+00	0.00E+00	3.11E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.05E+00	0.00E+00	3.05E+00
		Cs-137	<2.39E+00	0.00E+00	2.39E+00
		BaLa-140	<7.29E+00	0.00E+00	7.29E+00
		Be-7	<2.75E+01	0.00E+00	2.75E+01
		K-40	9.52E+01	3.13E+01	3.82E+01
Sample ID: 597222	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.34E+00	0.00E+00	3.34E+00
		Co-58	<3.37E+00	0.00E+00	3.37E+00
		Fe-59	<8.36E+00	0.00E+00	8.36E+00
		Co-60	<3.35E+00	0.00E+00	3.35E+00
		Zn-65	<6.17E+00	0.00E+00	6.17E+00
		Zr-95	<5.83E+00	0.00E+00	5.83E+00
		Nb-95	<3.88E+00	0.00E+00	3.88E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<2.80E+00	0.00E+00	2.80E+00
		Cs-137	<3.11E+00	0.00E+00	3.11E+00
		BaLa-140	<7.59E+00	0.00E+00	7.59E+00
		Be-7	<2.61E+01	0.00E+00	2.61E+01
		K-40	1.04E+02	3.60E+01	4.06E+01
Sample ID: 597843	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.48E+01	0.00E+00	1.94E+02
Sample ID: 598982	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.68E+00	0.00E+00	3.68E+00
		Co-58	<3.74E+00	0.00E+00	3.74E+00
		Fe-59	<7.61E+00	0.00E+00	7.61E+00
		Co-60	<3.67E+00	0.00E+00	3.67E+00
		Zn-65	<5.11E+00	0.00E+00	5.11E+00
		Zr-95	<6.63E+00	0.00E+00	6.63E+00
		Nb-95	<3.76E+00	0.00E+00	3.76E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.47E+00	0.00E+00	3.47E+00
		Cs-137	<3.26E+00	0.00E+00	3.26E+00
		BaLa-140	<7.71E+00	0.00E+00	7.71E+00
		Be-7	<2.90E+01	0.00E+00	2.90E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID:	598982	Sample Dates:	10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	7.83E+01	3.73E+01	4.77E+01
Sample ID:	601220	Sample Dates:	10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.77E+00	0.00E+00	2.77E+00
				Co-58	<2.47E+00	0.00E+00	2.47E+00
				Fe-59	<5.93E+00	0.00E+00	5.93E+00
				Co-60	<3.04E+00	0.00E+00	3.04E+00
				Zn-65	<5.78E+00	0.00E+00	5.78E+00
				Zr-95	<5.52E+00	0.00E+00	5.52E+00
				Nb-95	<3.94E+00	0.00E+00	3.94E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<3.00E+00	0.00E+00	3.00E+00
				Cs-137	<3.26E+00	0.00E+00	3.26E+00
				BaLa-140	<5.90E+00	0.00E+00	5.90E+00
				Be-7	<2.34E+01	0.00E+00	2.34E+01
				K-40	7.75E+01	3.05E+01	3.81E+01
Sample ID:	602646	Sample Dates:	11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.03E+00	0.00E+00	2.03E+00
				Co-58	<2.20E+00	0.00E+00	2.20E+00
				Fe-59	<4.50E+00	0.00E+00	4.50E+00
				Co-60	<1.64E+00	0.00E+00	1.64E+00
				Zn-65	<4.30E+00	0.00E+00	4.30E+00
				Zr-95	<4.23E+00	0.00E+00	4.23E+00
				Nb-95	<3.21E+00	0.00E+00	3.21E+00
				I-131	<1.22E+01	0.00E+00	1.22E+01
				Cs-134	<2.16E+00	0.00E+00	2.16E+00
				Cs-137	<1.97E+00	0.00E+00	1.97E+00
				BaLa-140	<6.24E+00	0.00E+00	6.24E+00
				Be-7	<1.91E+01	0.00E+00	1.91E+01
				K-40	7.22E+01	2.60E+01	3.44E+01
Sample ID:	603900	Sample Dates:	10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-2.4E+00	0.00E+00	1.82E+02
Sample Point 063.1 [INDICATOR - E @ 0.79 miles]							
Sample ID:	583285	Sample Dates:	12/27/2022 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.56E+00	0.00E+00	2.56E+00
				Co-58	<3.24E+00	0.00E+00	3.24E+00
				Fe-59	<4.03E+00	0.00E+00	4.03E+00
				Co-60	<2.58E+00	0.00E+00	2.58E+00
				Zn-65	<6.13E+00	0.00E+00	6.13E+00
				Zr-95	<6.14E+00	0.00E+00	6.14E+00
				Nb-95	<4.10E+00	0.00E+00	4.10E+00
				I-131	<1.25E+01	0.00E+00	1.25E+01
				Cs-134	<3.32E+00	0.00E+00	3.32E+00
				Cs-137	<2.92E+00	0.00E+00	2.92E+00
				BaLa-140	<6.12E+00	0.00E+00	6.12E+00
				Be-7	<2.59E+01	0.00E+00	2.59E+01
				K-40	8.83E+01	3.62E+01	4.69E+01
Sample ID:	585479	Sample Dates:	1/23/2023 - 2/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.39E+00	0.00E+00	3.39E+00
				Co-58	<3.77E+00	0.00E+00	3.77E+00
				Fe-59	<8.16E+00	0.00E+00	8.16E+00
				Co-60	<3.35E+00	0.00E+00	3.35E+00
				Zn-65	<5.50E+00	0.00E+00	5.50E+00
				Zr-95	<5.24E+00	0.00E+00	5.24E+00
				Nb-95	<4.79E+00	0.00E+00	4.79E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<3.06E+00	0.00E+00	3.06E+00
				Cs-137	<3.39E+00	0.00E+00	3.39E+00
				BaLa-140	<7.73E+00	0.00E+00	7.73E+00
				Be-7	<2.74E+01	0.00E+00	2.74E+01
				K-40	8.43E+01	3.55E+01	4.29E+01
Sample ID:	586798	Sample Dates:	2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.03E+00	0.00E+00	4.03E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 586798	Sample Dates: 2/20/2023 - 3/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<2.62E+00	0.00E+00	2.62E+00
		Fe-59	<6.25E+00	0.00E+00	6.25E+00
		Co-60	<2.51E+00	0.00E+00	2.51E+00
		Zn-65	<7.53E+00	0.00E+00	7.53E+00
		Zr-95	<8.72E+00	0.00E+00	8.72E+00
		Nb-95	<6.57E+00	0.00E+00	6.57E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.03E+00	0.00E+00	3.03E+00
		Cs-137	<3.90E+00	0.00E+00	3.90E+00
		BaLa-140	<2.57E+00	0.00E+00	2.57E+00
		Be-7	<4.10E+01	0.00E+00	4.10E+01
		K-40	<7.40E+01	0.00E+00	7.40E+01
Sample ID: 587739	Sample Dates: 12/27/2022 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	2.01E+03	1.79E+02	2.08E+02
Sample ID: 587938	Sample Dates: 3/20/2023 - 4/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.99E+00	0.00E+00	2.99E+00
		Co-58	<3.54E+00	0.00E+00	3.54E+00
		Fe-59	<8.42E+00	0.00E+00	8.42E+00
		Co-60	<3.09E+00	0.00E+00	3.09E+00
		Zn-65	<6.01E+00	0.00E+00	6.01E+00
		Zr-95	<6.63E+00	0.00E+00	6.63E+00
		Nb-95	<5.44E+00	0.00E+00	5.44E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<3.09E+00	0.00E+00	3.09E+00
		Cs-137	<3.94E+00	0.00E+00	3.94E+00
		BaLa-140	<6.85E+00	0.00E+00	6.85E+00
		Be-7	<3.24E+01	0.00E+00	3.24E+01
		K-40	7.88E+01	3.12E+01	3.37E+01
Sample ID: 589951	Sample Dates: 4/17/2023 - 5/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.69E+00	0.00E+00	2.69E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<7.00E+00	0.00E+00	7.00E+00
		Co-60	<3.01E+00	0.00E+00	3.01E+00
		Zn-65	<5.57E+00	0.00E+00	5.57E+00
		Zr-95	<5.03E+00	0.00E+00	5.03E+00
		Nb-95	<3.43E+00	0.00E+00	3.43E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.45E+00	0.00E+00	3.45E+00
		Cs-137	<2.52E+00	0.00E+00	2.52E+00
		BaLa-140	<6.15E+00	0.00E+00	6.15E+00
		Be-7	<2.78E+01	0.00E+00	2.78E+01
		K-40	8.89E+01	3.30E+01	3.88E+01
Sample ID: 590813	Sample Dates: 5/15/2023 - 6/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.74E+00	0.00E+00	2.74E+00
		Co-58	<3.27E+00	0.00E+00	3.27E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<3.01E+00	0.00E+00	3.01E+00
		Zn-65	<7.26E+00	0.00E+00	7.26E+00
		Zr-95	<7.73E+00	0.00E+00	7.73E+00
		Nb-95	<4.33E+00	0.00E+00	4.33E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<4.20E+00	0.00E+00	4.20E+00
		Cs-137	<4.06E+00	0.00E+00	4.06E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<3.64E+01	0.00E+00	3.64E+01
		K-40	7.31E+01	4.13E+01	5.59E+01
Sample ID: 592021	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.03E+00	0.00E+00	4.03E+00
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<3.91E+00	0.00E+00	3.91E+00
		Zn-65	<6.43E+00	0.00E+00	6.43E+00
		Zr-95	<7.96E+00	0.00E+00	7.96E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 592021	Sample Dates: 6/12/2023 - 7/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<6.08E+00	0.00E+00	6.08E+00
		I-131	<1.08E+01	0.00E+00	1.08E+01
		Cs-134	<4.26E+00	0.00E+00	4.26E+00
		Cs-137	<3.33E+00	0.00E+00	3.33E+00
		BaLa-140	<1.09E+01	0.00E+00	1.09E+01
		Be-7	<4.02E+01	0.00E+00	4.02E+01
Sample ID: 592166	Sample Dates: 4/17/2023 - 7/10/2023	K-40	7.43E+01	4.61E+01	6.40E+01
		Nuclide	Activity	2 Sigma Error	MDA
		H3SW	4.85E+03	2.28E+02	1.93E+02
Sample ID: 593357	Sample Dates: 7/10/2023 - 8/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.04E+00	0.00E+00	3.04E+00
		Co-58	<3.60E+00	0.00E+00	3.60E+00
		Fe-59	<6.89E+00	0.00E+00	6.89E+00
		Co-60	<1.54E+00	0.00E+00	1.54E+00
		Zn-65	<6.10E+00	0.00E+00	6.10E+00
		Zr-95	<5.58E+00	0.00E+00	5.58E+00
		Nb-95	<4.79E+00	0.00E+00	4.79E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.88E+00	0.00E+00	3.88E+00
		Cs-137	<3.31E+00	0.00E+00	3.31E+00
		BaLa-140	<4.30E+00	0.00E+00	4.30E+00
		Be-7	<3.30E+01	0.00E+00	3.30E+01
		K-40	5.92E+01	3.53E+01	5.02E+01
Sample ID: 594910	Sample Dates: 8/7/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<3.89E+00	0.00E+00	3.89E+00
		Fe-59	<7.21E+00	0.00E+00	7.21E+00
		Co-60	<3.27E+00	0.00E+00	3.27E+00
		Zn-65	<5.44E+00	0.00E+00	5.44E+00
		Zr-95	<5.73E+00	0.00E+00	5.73E+00
		Nb-95	<4.44E+00	0.00E+00	4.44E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.83E+00	0.00E+00	3.83E+00
		Cs-137	<3.34E+00	0.00E+00	3.34E+00
		BaLa-140	<8.94E+00	0.00E+00	8.94E+00
		Be-7	<3.22E+01	0.00E+00	3.22E+01
		K-40	<5.31E+01	0.00E+00	5.31E+01
Sample ID: 597223	Sample Dates: 9/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.38E+00	0.00E+00	3.38E+00
		Co-58	<4.46E+00	0.00E+00	4.46E+00
		Fe-59	<6.14E+00	0.00E+00	6.14E+00
		Co-60	<3.66E+00	0.00E+00	3.66E+00
		Zn-65	<6.74E+00	0.00E+00	6.74E+00
		Zr-95	<6.64E+00	0.00E+00	6.64E+00
		Nb-95	<4.20E+00	0.00E+00	4.20E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.59E+00	0.00E+00	3.59E+00
		Cs-137	<3.28E+00	0.00E+00	3.28E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<2.76E+01	0.00E+00	2.76E+01
		K-40	6.03E+01	3.54E+01	4.77E+01
Sample ID: 597844	Sample Dates: 7/10/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	9.85E+03	3.11E+02	1.94E+02
Sample ID: 598983	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.97E+00	0.00E+00	2.97E+00
		Co-58	<2.41E+00	0.00E+00	2.41E+00
		Fe-59	<6.74E+00	0.00E+00	6.74E+00
		Co-60	<2.43E+00	0.00E+00	2.43E+00
		Zn-65	<4.49E+00	0.00E+00	4.49E+00
		Zr-95	<3.86E+00	0.00E+00	3.86E+00
		Nb-95	<3.31E+00	0.00E+00	3.31E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<2.79E+00	0.00E+00	2.79E+00

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 598983	Sample Dates: 10/2/2023 - 10/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.52E+00	0.00E+00	2.52E+00
		BaLa-140	<8.46E+00	0.00E+00	8.46E+00
		Be-7	<2.96E+01	0.00E+00	2.96E+01
		K-40	1.13E+02	3.02E+01	1.67E+01
Sample ID: 601221	Sample Dates: 10/30/2023 - 11/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.33E+00	0.00E+00	3.33E+00
		Co-58	<3.76E+00	0.00E+00	3.76E+00
		Fe-59	<5.85E+00	0.00E+00	5.85E+00
		Co-60	<3.00E+00	0.00E+00	3.00E+00
		Zn-65	<5.02E+00	0.00E+00	5.02E+00
		Zr-95	<4.94E+00	0.00E+00	4.94E+00
		Nb-95	<4.49E+00	0.00E+00	4.49E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.69E+00	0.00E+00	3.69E+00
		Cs-137	<3.14E+00	0.00E+00	3.14E+00
		BaLa-140	<8.39E+00	0.00E+00	8.39E+00
		Be-7	<2.89E+01	0.00E+00	2.89E+01
		K-40	7.22E+01	3.36E+01	4.47E+01
Sample ID: 602647	Sample Dates: 11/27/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.90E+00	0.00E+00	1.90E+00
		Co-58	<2.09E+00	0.00E+00	2.09E+00
		Fe-59	<5.63E+00	0.00E+00	5.63E+00
		Co-60	<1.88E+00	0.00E+00	1.88E+00
		Zn-65	<3.71E+00	0.00E+00	3.71E+00
		Zr-95	<4.10E+00	0.00E+00	4.10E+00
		Nb-95	<2.47E+00	0.00E+00	2.47E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<2.10E+00	0.00E+00	2.10E+00
		Cs-137	<2.05E+00	0.00E+00	2.05E+00
		BaLa-140	<7.09E+00	0.00E+00	7.09E+00
		Be-7	<2.01E+01	0.00E+00	2.01E+01
		K-40	1.01E+02	2.44E+01	2.38E+01
Sample ID: 603901	Sample Dates: 10/2/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	2.73E+04	4.71E+02	1.84E+02

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 020 [INDICATOR - N @ 0.16 miles]

TLD RING TLD_INNER

Sample ID: 586455	Sample Dates: 12/13/2022 - 3/14/2023	Nuclide	Activity
		mR/Std Qtr	24.01
Sample ID: 591050	Sample Dates: 3/14/2023 - 6/20/2023	Nuclide	Activity
		mR/Std Qtr	20.08
Sample ID: 595442	Sample Dates: 6/20/2023 - 9/19/2023	Nuclide	Activity
		mR/Std Qtr	19.95
Sample ID: 602075	Sample Dates: 9/19/2023 - 12/19/2023	Nuclide	Activity
		mR/Std Qtr	20.91

Sample Point 021 [INDICATOR - NNE @ 0.25 miles]

TLD RING TLD_INNER

Sample ID: 586456	Sample Dates: 12/13/2022 - 3/14/2023	Nuclide	Activity
		mR/Std Qtr	19.45
Sample ID: 591051	Sample Dates: 3/14/2023 - 6/20/2023	Nuclide	Activity
		mR/Std Qtr	15.32
Sample ID: 595443	Sample Dates: 6/20/2023 - 9/19/2023	Nuclide	Activity
		mR/Std Qtr	15.04
Sample ID: 602076	Sample Dates: 9/19/2023 - 12/19/2023	Nuclide	Activity
		mR/Std Qtr	16.01

Sample Point 022 [INDICATOR - NE @ 0.53 miles]

TLD RING TLD_INNER

Sample ID: 586457	Sample Dates: 12/13/2022 - 3/14/2023	Nuclide	Activity
		mR/Std Qtr	28.87

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 022 [INDICATOR - NE @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	591052	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	24.09
Sample ID:	595444	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	22.56
Sample ID:	602077	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	25.93

Sample Point 023 [INDICATOR - ENE @ 0.93 miles]

TLD RING TLD_INNER

Sample ID:	586458	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	28.06
Sample ID:	591053	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	24.13
Sample ID:	595445	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	21.51
Sample ID:	602078	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	25.34

Sample Point 024 [INDICATOR - E @ 0.81 miles]

TLD RING TLD_INNER

Sample ID:	586459	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	35.14
Sample ID:	591054	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	27.59
Sample ID:	595446	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	26.76
Sample ID:	602079	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	31.10

Sample Point 025 [INDICATOR - ESE @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	586460	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.07
Sample ID:	591055	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.57
Sample ID:	595447	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	19.11
Sample ID:	602080	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.58

Sample Point 026 [INDICATOR - SE @ 0.34 miles]

TLD RING TLD_INNER

Sample ID:	586461	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	20.04
Sample ID:	591056	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.26
Sample ID:	595448	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.13
Sample ID:	602081	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	17.56

Sample Point 027 [INDICATOR - SSE @ 0.49 miles]

TLD RING TLD_INNER

Sample ID:	586462	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	22.55
Sample ID:	591057	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	19.07
Sample ID:	595449	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.65

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 027 [INDICATOR - SSE @ 0.49 miles]

TLD RING TLD_INNER

Sample ID:	602082	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.42

Sample Point 028 [INDICATOR - S @ 0.46 miles]

TLD RING TLD_INNER

Sample ID:	586463	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	20.53

Sample ID:	591058	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	16.50

Sample ID:	595450	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	16.76

Sample ID:	602083	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.36

Sample Point 029 [INDICATOR - SSW @ 0.56 miles]

TLD RING TLD_INNER

Sample ID:	586464	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	20.11

Sample ID:	591059	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	16.80

Sample ID:	595451	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	16.44

Sample ID:	602084	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	18.55

Sample Point 030 [INDICATOR - SW @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	586465	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.91

Sample ID:	591060	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	17.54

Sample ID:	595452	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	18.35

Sample ID:	602085	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.97

Sample Point 031 [INDICATOR - WSW @ 0.27 miles]

TLD RING TLD_INNER

Sample ID:	586466	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	20.85

Sample ID:	591061	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	17.65

Sample ID:	595453	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.65

Sample ID:	602086	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.95

Sample Point 032 [INDICATOR - WNW @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	586467	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	26.13

Sample ID:	591062	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	22.25

Sample ID:	595454	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	20.09

Sample ID:	602087	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.58

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 033 [INDICATOR - WNW @ 0.21 miles]

TLD RING TLD_INNER

Sample ID:	586468	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.77
Sample ID:	591063	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	19.42
Sample ID:	595455	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.78
Sample ID:	602088	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.91

Sample Point 034 [INDICATOR - NW @ 0.22 miles]

TLD RING TLD_INNER

Sample ID:	586469	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.53
Sample ID:	591064	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	19.68
Sample ID:	595456	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.73
Sample ID:	602089	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.21

Sample Point 035 [INDICATOR - NNW @ 0.17 miles]

TLD RING TLD_INNER

Sample ID:	586470	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	29.65
Sample ID:	591065	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	22.83
Sample ID:	595457	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	23.82
Sample ID:	602090	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	25.58

Sample Point 036 [INDICATOR - N @ 4.18 miles]

TLD RING TLD_OUTER

Sample ID:	586471	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	29.09
Sample ID:	591066	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	24.98
Sample ID:	595458	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	27.69
Sample ID:	602091	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	30.77

Sample Point 037 [INDICATOR - NNE @ 4.85 miles]

TLD RING TLD_OUTER

Sample ID:	586472	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.60
Sample ID:	591067	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.28
Sample ID:	595459	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	19.59
Sample ID:	602092	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.91

Sample Point 038 [INDICATOR - NE @ 4.24 miles]

TLD RING TLD_OUTER

Sample ID:	586473	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	25.97
Sample ID:	591068	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.60

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 038 [INDICATOR - NE @ 4.24 miles]

TLD RING TLD_OUTER

Sample ID:	595460	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	23.14

Sample Point 039 [INDICATOR - ENE @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	586474	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	29.00

Sample ID:	591069	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	23.31

Sample ID:	595461	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	24.85

Sample ID:	602094	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	25.98

Sample Point 040 [INDICATOR - E @ 4.74 miles]

TLD RING TLD_OUTER

Sample ID:	586475	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	32.25

Sample ID:	591070	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	27.09

Sample ID:	595462	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	26.63

Sample ID:	602095	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	28.62

Sample Point 041 [INDICATOR - ESE @ 4.25 miles]

TLD RING TLD_OUTER

Sample ID:	586476	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.94

Sample ID:	591071	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	16.01

Sample ID:	595463	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.53

Sample ID:	602096	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	20.42

Sample Point 042 [INDICATOR - SE @ 4.93 miles]

TLD RING TLD_OUTER

Sample ID:	586477	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	31.56

Sample ID:	591072	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	26.42

Sample ID:	595464	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	26.18

Sample ID:	602097	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	28.11

Sample Point 043 [INDICATOR - SSE @ 4.09 miles]

TLD RING TLD_OUTER

Sample ID:	586478	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	27.40

Sample ID:	591073	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	26.12

Sample ID:	595465	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	24.66

Sample ID:	602098	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	27.04

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 044 [INDICATOR - S @ 3.96 miles]

TLD RING TLD_OUTER

Sample ID:	586479	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.29
Sample ID:	591074	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.56
Sample ID:	595466	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	19.54
Sample ID:	602099	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	22.26

Sample Point 045 [INDICATOR - SSW @ 4.78 miles]

TLD RING TLD_OUTER

Sample ID:	586480	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.26
Sample ID:	591075	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	17.14
Sample ID:	595467	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	18.51
Sample ID:	602100	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	18.47

Sample Point 046 [INDICATOR - SW @ 4.61 miles]

TLD RING TLD_OUTER

Sample ID:	586481	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	25.00
Sample ID:	591076	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.51
Sample ID:	595468	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	20.24
Sample ID:	602101	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	24.03

Sample Point 048 [INDICATOR - W @ 3.64 miles]

TLD RING TLD_OUTER

Sample ID:	586482	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	31.08
Sample ID:	591077	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	26.42
Sample ID:	595469	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	24.59
Sample ID:	602102	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	30.09

Sample Point 049 [INDICATOR - WNW @ 3.6 miles]

TLD RING TLD_OUTER

Sample ID:	586483	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	25.28
Sample ID:	591078	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	21.61
Sample ID:	595470	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	21.33
Sample ID:	602103	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	22.55

Sample Point 050 [INDICATOR - NW @ 3.53 miles]

TLD RING TLD_OUTER

Sample ID:	586484	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.97
Sample ID:	591079	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	16.92

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 050 [INDICATOR - NW @ 3.53 miles]

TLD RING TLD_OUTER

Sample ID:	595471	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	19.50
Sample ID:	602104	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.60

Sample Point 051 [INDICATOR - NNW @ 4.64 miles]

TLD RING TLD_OUTER

Sample ID:	586485	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.11
Sample ID:	591080	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	17.96
Sample ID:	595472	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	20.57
Sample ID:	602105	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	23.34

Sample Point 052 [INDICATOR - ENE @ 12.4 miles]

TLD RING TLD_SPEC

Sample ID:	586486	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	24.85
Sample ID:	591081	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	23.90
Sample ID:	595473	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	22.99
Sample ID:	602106	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	27.42

Sample Point 053 [INDICATOR - E @ 11.7 miles]

TLD RING TLD_SPEC

Sample ID:	586487	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	30.03
Sample ID:	591082	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	27.67
Sample ID:	595474	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	23.89
Sample ID:	602107	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	28.53

Sample Point 054 [INDICATOR - ESE @ 8.6 miles]

TLD RING TLD_SPEC

Sample ID:	586488	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	22.98
Sample ID:	591083	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.70
Sample ID:	595475	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.76
Sample ID:	602108	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.21

Sample Point 055 [INDICATOR - SSE @ 9.27 miles]

TLD RING TLD_SPEC

Sample ID:	586489	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	20.93
Sample ID:	591084	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.52
Sample ID:	595476	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	15.90
Sample ID:	602109	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.60

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 056 [INDICATOR - SSW @ 7.3 miles]

TLD RING TLD_SPEC

Sample ID:	591085	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	26.66
Sample ID:	595477	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	25.43
Sample ID:	602110	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	24.35

Sample Point 057 [INDICATOR - SW @ 8.42 miles]

TLD RING TLD_SPEC

Sample ID:	586491	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.08
Sample ID:	591086	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.11
Sample ID:	595478	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	20.30
Sample ID:	602111	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	22.96

Sample Point 058 [CONTROL - WSW @ 9.39 miles]

TLD RING TLD_CTRL

Sample ID:	586492	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	33.54
Sample ID:	591087	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	33.18
Sample ID:	595479	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	30.23
Sample ID:	602112	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	33.52

Sample Point 076 [INDICATOR - W @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	586493	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	29.89
Sample ID:	591088	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	24.75
Sample ID:	595480	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	25.04
Sample ID:	602113	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	28.15

Sample Point 077 [INDICATOR - SW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	586494	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.21
Sample ID:	591089	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.24
Sample ID:	595481	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	17.43
Sample ID:	602114	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.06

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	586495	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	34.11
Sample ID:	591090	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	30.31
Sample ID:	595482	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	26.2

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	602115	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	27.69

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

TLD RING TLD_INNER

Sample ID:	586496	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	24.49

Sample ID:	591091	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	20.76

Sample ID:	595483	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	20.43

Sample ID:	602116	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.12

Sample Point 086 [INDICATOR - NW @ 0.83 miles]

TLD RING TLD_INNER

Sample ID:	586497	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.26

Sample ID:	591092	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	18.37

Sample ID:	595484	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	19.08

Sample ID:	602117	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.33

Sample Point 087 [INDICATOR - WNW @ 1.33 miles]

TLD RING TLD_INNER

Sample ID:	586498	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	21.47

Sample ID:	591093	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	17.18

Sample ID:	595485	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	18.06

Sample ID:	602118	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	19.87

Sample Point 088 [INDICATOR - SSW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	586499	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	23.00

Sample ID:	591094	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	19.67

Sample ID:	595486	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	21.74

Sample ID:	602119	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	22.38

Sample Point 089 [INDICATOR - S @ 1.19 miles]

TLD RING TLD_INNER

Sample ID:	586500	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	28.57

Sample ID:	591095	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	24.05

Sample ID:	595487	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	23.22

Sample ID:	602120	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	25.74

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 090 [INDICATOR - SE @ 0.79 miles]

TLD RING TLD_INNER

Sample ID:	586501	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	27.31
Sample ID:	591096	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	25.50
Sample ID:	595488	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	24.24

Sample Point 092 [INDICATOR - WSW @ 3.62 miles]

TLD RING TLD_OUTER

Sample ID:	586502	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	24.90
Sample ID:	591097	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	21.60
Sample ID:	595489	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	21.73
Sample ID:	602122	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	23.40

Sample Point 093 [CONTROL - SE @ 9.34 miles]

TLD RING TLD_CTRL

Sample ID:	586503	Sample Dates:	12/13/2022 - 3/14/2023	Nuclide	Activity
				mR/Std Qtr	27.60
Sample ID:	591098	Sample Dates:	3/14/2023 - 6/20/2023	Nuclide	Activity
				mR/Std Qtr	23.93
Sample ID:	595490	Sample Dates:	6/20/2023 - 9/19/2023	Nuclide	Activity
				mR/Std Qtr	22.47
Sample ID:	602123	Sample Dates:	9/19/2023 - 12/19/2023	Nuclide	Activity
				mR/Std Qtr	21.84

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	582733	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.09E+01	0.00E+00	6.09E+01
					Co-58	<4.99E+01	0.00E+00	4.99E+01
					Fe-59	<1.32E+02	0.00E+00	1.32E+02
					Co-60	<5.26E+01	0.00E+00	5.26E+01
					Zn-65	<1.20E+02	0.00E+00	1.20E+02
					Zr-95	<8.11E+01	0.00E+00	8.11E+01
					Nb-95	<6.99E+01	0.00E+00	6.99E+01
					I-131	<5.24E+01	0.00E+00	5.24E+01
					Cs-134	<4.94E+01	0.00E+00	4.94E+01
					Cs-137	<7.13E+01	0.00E+00	7.13E+01
					BaLa-140	<5.76E+01	0.00E+00	5.76E+01
					Be-7	3.01E+03	7.01E+02	7.34E+02
					K-40	4.22E+03	1.05E+03	7.96E+02
Sample ID:	584985	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.21E+01	0.00E+00	2.21E+01
					Co-58	<2.09E+01	0.00E+00	2.09E+01
					Fe-59	<4.12E+01	0.00E+00	4.12E+01
					Co-60	<1.92E+01	0.00E+00	1.92E+01
					Zn-65	<4.93E+01	0.00E+00	4.93E+01
					Zr-95	<3.53E+01	0.00E+00	3.53E+01
					Nb-95	<2.29E+01	0.00E+00	2.29E+01
					I-131	<2.14E+01	0.00E+00	2.14E+01
					Cs-134	<2.88E+01	0.00E+00	2.88E+01
					Cs-137	<1.94E+01	0.00E+00	1.94E+01
					BaLa-140	<2.10E+01	0.00E+00	2.10E+01
					Be-7	9.88E+02	2.41E+02	2.88E+02
					K-40	1.95E+03	4.03E+02	3.24E+02
Sample ID:	586132	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.02E+01	0.00E+00	2.02E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 586132	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Co-58		<2.05E+01	0.00E+00	2.05E+01
			Fe-59		<4.55E+01	0.00E+00	4.55E+01
			Co-60		<2.01E+01	0.00E+00	2.01E+01
			Zn-65		<3.90E+01	0.00E+00	3.90E+01
			Zr-95		<4.11E+01	0.00E+00	4.11E+01
			Nb-95		<2.37E+01	0.00E+00	2.37E+01
			I-131		<2.24E+01	0.00E+00	2.24E+01
			Cs-134		<2.64E+01	0.00E+00	2.64E+01
			Cs-137		<2.15E+01	0.00E+00	2.15E+01
			BaLa-140		<2.06E+01	0.00E+00	2.06E+01
			Be-7		9.08E+02	2.20E+02	2.53E+02
			K-40		2.66E+03	4.50E+02	2.11E+02
			Sample ID: 587514	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	
Mn-54		<2.34E+01				0.00E+00	2.34E+01
Co-58		<2.72E+01				0.00E+00	2.72E+01
Fe-59		<4.42E+01				0.00E+00	4.42E+01
Co-60		<2.71E+01				0.00E+00	2.71E+01
Zn-65		<5.29E+01				0.00E+00	5.29E+01
Zr-95		<3.72E+01				0.00E+00	3.72E+01
Nb-95		<2.27E+01				0.00E+00	2.27E+01
I-131		<2.43E+01				0.00E+00	2.43E+01
Cs-134		<2.34E+01				0.00E+00	2.34E+01
Cs-137		<1.65E+01				0.00E+00	1.65E+01
BaLa-140		<3.13E+01				0.00E+00	3.13E+01
Be-7		1.49E+03				2.88E+02	2.79E+02
K-40		3.94E+03				6.16E+02	3.19E+02
Sample ID: 589603	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<1.55E+01	0.00E+00	1.55E+01
			Co-58		<1.39E+01	0.00E+00	1.39E+01
			Fe-59		<2.98E+01	0.00E+00	2.98E+01
			Co-60		<1.70E+01	0.00E+00	1.70E+01
			Zn-65		<4.00E+01	0.00E+00	4.00E+01
			Zr-95		<2.73E+01	0.00E+00	2.73E+01
			Nb-95		<1.31E+01	0.00E+00	1.31E+01
			I-131		<1.51E+01	0.00E+00	1.51E+01
			Cs-134		<1.52E+01	0.00E+00	1.52E+01
			Cs-137		<1.84E+01	0.00E+00	1.84E+01
			BaLa-140		<1.41E+01	0.00E+00	1.41E+01
			Be-7		5.81E+02	1.57E+02	1.92E+02
			K-40		3.44E+03	4.67E+02	1.27E+02
Sample ID: 590707	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<2.23E+01	0.00E+00	2.23E+01
			Co-58		<1.69E+01	0.00E+00	1.69E+01
			Fe-59		<4.93E+01	0.00E+00	4.93E+01
			Co-60		<2.39E+01	0.00E+00	2.39E+01
			Zn-65		<5.21E+01	0.00E+00	5.21E+01
			Zr-95		<3.61E+01	0.00E+00	3.61E+01
			Nb-95		<2.05E+01	0.00E+00	2.05E+01
			I-131		<2.09E+01	0.00E+00	2.09E+01
			Cs-134		<2.41E+01	0.00E+00	2.41E+01
			Cs-137		<2.00E+01	0.00E+00	2.00E+01
			BaLa-140		<2.44E+01	0.00E+00	2.44E+01
			Be-7		9.50E+02	2.10E+02	2.22E+02
			K-40		5.09E+03	6.97E+02	4.07E+02
Sample ID: 591903	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide		Activity	2 Sigma Error	MDA
			Mn-54		<3.56E+01	0.00E+00	3.56E+01
			Co-58		<3.22E+01	0.00E+00	3.22E+01
			Fe-59		<6.95E+01	0.00E+00	6.95E+01
			Co-60		<3.71E+01	0.00E+00	3.71E+01
			Zn-65		<5.83E+01	0.00E+00	5.83E+01
			Zr-95		<6.20E+01	0.00E+00	6.20E+01
			Nb-95		<4.10E+01	0.00E+00	4.10E+01
			I-131		<4.16E+01	0.00E+00	4.16E+01
			Cs-134		<3.99E+01	0.00E+00	3.99E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 591903	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-137	<2.48E+01	0.00E+00	2.48E+01
			BaLa-140	<6.17E+01	0.00E+00	6.17E+01
			Be-7	2.78E+03	4.94E+02	3.28E+02
			K-40	3.44E+03	7.12E+02	8.40E+01
Sample ID: 593621	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.31E+01	0.00E+00	2.31E+01
			Co-58	<2.71E+01	0.00E+00	2.71E+01
			Fe-59	<5.77E+01	0.00E+00	5.77E+01
			Co-60	<4.45E+01	0.00E+00	4.45E+01
			Zn-65	<7.35E+01	0.00E+00	7.35E+01
			Zr-95	<5.29E+01	0.00E+00	5.29E+01
			Nb-95	<2.25E+01	0.00E+00	2.25E+01
			I-131	<2.62E+01	0.00E+00	2.62E+01
			Cs-134	<2.83E+01	0.00E+00	2.83E+01
			Cs-137	<3.25E+01	0.00E+00	3.25E+01
			BaLa-140	<3.51E+01	0.00E+00	3.51E+01
			Be-7	1.21E+03	3.23E+02	3.34E+02
			K-40	3.66E+03	7.05E+02	7.62E+01
Sample ID: 595054	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.06E+01	0.00E+00	2.06E+01
			Co-58	<1.59E+01	0.00E+00	1.59E+01
			Fe-59	<3.75E+01	0.00E+00	3.75E+01
			Co-60	<1.73E+01	0.00E+00	1.73E+01
			Zn-65	<4.12E+01	0.00E+00	4.12E+01
			Zr-95	<3.25E+01	0.00E+00	3.25E+01
			Nb-95	<1.71E+01	0.00E+00	1.71E+01
			I-131	<2.76E+01	0.00E+00	2.76E+01
			Cs-134	<2.09E+01	0.00E+00	2.09E+01
			Cs-137	<1.70E+01	0.00E+00	1.70E+01
			BaLa-140	<1.69E+01	0.00E+00	1.69E+01
			Be-7	1.47E+03	2.46E+02	2.12E+02
			K-40	3.75E+03	5.23E+02	2.97E+02
Sample ID: 597361	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.56E+01	0.00E+00	2.57E+01
			Co-58	<4.18E+01	0.00E+00	4.18E+01
			Fe-59	<9.54E+01	0.00E+00	9.54E+01
			Co-60	<3.72E+01	0.00E+00	3.72E+01
			Zn-65	<1.40E+02	0.00E+00	1.40E+02
			Zr-95	<5.60E+01	0.00E+00	5.60E+01
			Nb-95	<3.14E+01	0.00E+00	3.14E+01
			I-131	<4.29E+01	0.00E+00	4.29E+01
			Cs-134	<4.21E+01	0.00E+00	4.21E+01
			Cs-137	<4.43E+01	0.00E+00	4.43E+01
			BaLa-140	<1.84E+01	0.00E+00	1.84E+01
			Be-7	1.28E+03	4.30E+02	4.60E+02
			K-40	2.70E+03	8.03E+02	4.96E+02
Sample ID: 599523	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.28E+01	0.00E+00	4.28E+01
			Co-58	<4.46E+01	0.00E+00	4.46E+01
			Fe-59	<8.23E+01	0.00E+00	8.23E+01
			Co-60	<4.88E+01	0.00E+00	4.88E+01
			Zn-65	<7.81E+01	0.00E+00	7.81E+01
			Zr-95	<6.25E+01	0.00E+00	6.25E+01
			Nb-95	<4.84E+01	0.00E+00	4.84E+01
			I-131	<4.52E+01	0.00E+00	4.52E+01
			Cs-134	<5.23E+01	0.00E+00	5.23E+01
			Cs-137	<3.95E+01	0.00E+00	3.95E+01
			BaLa-140	<4.60E+01	0.00E+00	4.60E+01
			Be-7	2.07E+03	4.67E+02	4.17E+02
			K-40	4.02E+03	8.65E+02	4.20E+02
Sample ID: 601842	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.28E+01	0.00E+00	4.28E+01
			Co-58	<2.53E+01	0.00E+00	2.53E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	601842	Sample Dates:	12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Fe-59	<8.05E+01	0.00E+00	8.05E+01
					Co-60	<4.11E+01	0.00E+00	4.11E+01
					Zn-65	<9.49E+01	0.00E+00	9.49E+01
					Zr-95	<8.92E+01	0.00E+00	8.92E+01
					Nb-95	<4.29E+01	0.00E+00	4.29E+01
					I-131	<3.53E+01	0.00E+00	3.53E+01
					Cs-134	<3.98E+01	0.00E+00	3.98E+01
					Cs-137	<3.81E+01	0.00E+00	3.81E+01
					BaLa-140	<3.35E+01	0.00E+00	3.35E+01
					Be-7	2.54E+03	5.26E+02	4.90E+02
					K-40	3.45E+03	8.40E+02	7.31E+02

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	582734	Sample Dates:	1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.08E+01	0.00E+00	5.08E+01
					Co-58	<5.40E+01	0.00E+00	5.40E+01
					Fe-59	<8.25E+01	0.00E+00	8.25E+01
					Co-60	<4.88E+01	0.00E+00	4.88E+01
					Zn-65	<1.00E+02	0.00E+00	1.00E+02
					Zr-95	<6.77E+01	0.00E+00	6.77E+01
					Nb-95	<3.50E+01	0.00E+00	3.50E+01
					I-131	<4.35E+01	0.00E+00	4.35E+01
					Cs-134	<5.00E+01	0.00E+00	5.00E+01
					Cs-137	<3.84E+01	0.00E+00	3.84E+01
					BaLa-140	<1.39E+01	0.00E+00	1.39E+01
					Be-7	2.41E+03	5.19E+02	4.37E+02
					K-40	4.97E+03	1.06E+03	7.19E+02

Sample ID:	584986	Sample Dates:	2/6/2023 - 2/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.11E+01	0.00E+00	2.11E+01
					Co-58	<1.84E+01	0.00E+00	1.84E+01
					Fe-59	<4.30E+01	0.00E+00	4.30E+01
					Co-60	<2.33E+01	0.00E+00	2.33E+01
					Zn-65	<4.72E+01	0.00E+00	4.72E+01
					Zr-95	<3.58E+01	0.00E+00	3.58E+01
					Nb-95	<1.99E+01	0.00E+00	1.99E+01
					I-131	<1.78E+01	0.00E+00	1.78E+01
					Cs-134	<2.52E+01	0.00E+00	2.52E+01
					Cs-137	<2.33E+01	0.00E+00	2.33E+01
					BaLa-140	<2.38E+01	0.00E+00	2.38E+01
					Be-7	4.45E+03	5.25E+02	2.76E+02
					K-40	4.99E+03	6.57E+02	2.44E+02

Sample ID:	586133	Sample Dates:	3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.35E+01	0.00E+00	2.35E+01
					Co-58	<2.32E+01	0.00E+00	2.32E+01
					Fe-59	<4.45E+01	0.00E+00	4.45E+01
					Co-60	<1.88E+01	0.00E+00	1.88E+01
					Zn-65	<4.10E+01	0.00E+00	4.10E+01
					Zr-95	<3.82E+01	0.00E+00	3.82E+01
					Nb-95	<2.24E+01	0.00E+00	2.24E+01
					I-131	<1.94E+01	0.00E+00	1.94E+01
					Cs-134	<1.88E+01	0.00E+00	1.88E+01
					Cs-137	<2.42E+01	0.00E+00	2.42E+01
					BaLa-140	<2.09E+01	0.00E+00	2.09E+01
					Be-7	3.71E+03	4.62E+02	2.81E+02
					K-40	3.34E+03	5.14E+02	2.76E+02

Sample ID:	587515	Sample Dates:	4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.99E+01	0.00E+00	2.99E+01
					Co-58	<2.22E+01	0.00E+00	2.22E+01
					Fe-59	<4.49E+01	0.00E+00	4.49E+01
					Co-60	<2.76E+01	0.00E+00	2.76E+01
					Zn-65	<5.16E+01	0.00E+00	5.16E+01
					Zr-95	<3.74E+01	0.00E+00	3.74E+01
					Nb-95	<2.41E+01	0.00E+00	2.41E+01
					I-131	<2.24E+01	0.00E+00	2.24E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 587515	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.49E+01	0.00E+00	2.49E+01
			Cs-137	<3.09E+01	0.00E+00	3.09E+01
			BaLa-140	<2.36E+01	0.00E+00	2.36E+01
			Be-7	2.05E+03	3.41E+02	2.97E+02
			K-40	5.15E+03	7.16E+02	3.57E+02
Sample ID: 589604	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.15E+01	0.00E+00	1.15E+01
			Co-58	<9.79E+00	0.00E+00	9.79E+00
			Fe-59	<2.70E+01	0.00E+00	2.70E+01
			Co-60	<1.18E+01	0.00E+00	1.18E+01
			Zn-65	<3.45E+01	0.00E+00	3.45E+01
			Zr-95	<2.15E+01	0.00E+00	2.15E+01
			Nb-95	<1.39E+01	0.00E+00	1.39E+01
			I-131	<1.50E+01	0.00E+00	1.50E+01
			Cs-134	<1.58E+01	0.00E+00	1.58E+01
			Cs-137	<1.23E+01	0.00E+00	1.23E+01
			BaLa-140	<7.75E+00	0.00E+00	7.75E+00
			Be-7	9.33E+02	1.66E+02	1.56E+02
			K-40	5.37E+03	6.22E+02	2.52E+02
Sample ID: 590708	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.93E+01	0.00E+00	1.93E+01
			Co-58	<1.39E+01	0.00E+00	1.39E+01
			Fe-59	<3.97E+01	0.00E+00	3.97E+01
			Co-60	<2.04E+01	0.00E+00	2.04E+01
			Zn-65	<5.10E+01	0.00E+00	5.10E+01
			Zr-95	<3.02E+01	0.00E+00	3.02E+01
			Nb-95	<1.50E+01	0.00E+00	1.50E+01
			I-131	<1.94E+01	0.00E+00	1.94E+01
			Cs-134	<2.17E+01	0.00E+00	2.17E+01
			Cs-137	<1.67E+01	0.00E+00	1.67E+01
			BaLa-140	<1.97E+01	0.00E+00	1.97E+01
			Be-7	1.08E+03	2.12E+02	2.07E+02
			K-40	5.23E+03	6.73E+02	2.77E+02
Sample ID: 591904	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.49E+01	0.00E+00	3.49E+01
			Co-58	<3.82E+01	0.00E+00	3.82E+01
			Fe-59	<9.12E+01	0.00E+00	9.12E+01
			Co-60	<3.65E+01	0.00E+00	3.65E+01
			Zn-65	<7.50E+01	0.00E+00	7.50E+01
			Zr-95	<5.80E+01	0.00E+00	5.80E+01
			Nb-95	<4.41E+01	0.00E+00	4.41E+01
			I-131	<3.96E+01	0.00E+00	3.96E+01
			Cs-134	<3.53E+01	0.00E+00	3.53E+01
			Cs-137	<4.20E+01	0.00E+00	4.20E+01
			BaLa-140	<4.62E+01	0.00E+00	4.62E+01
			Be-7	3.13E+03	5.59E+02	4.68E+02
			K-40	6.51E+03	1.05E+03	3.69E+02
Sample ID: 593622	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.80E+01	0.00E+00	2.80E+01
			Co-58	<2.12E+01	0.00E+00	2.12E+01
			Fe-59	<5.27E+01	0.00E+00	5.27E+01
			Co-60	<3.85E+01	0.00E+00	3.85E+01
			Zn-65	<7.79E+01	0.00E+00	7.79E+01
			Zr-95	<5.54E+01	0.00E+00	5.54E+01
			Nb-95	<2.98E+01	0.00E+00	2.98E+01
			I-131	<2.57E+01	0.00E+00	2.57E+01
			Cs-134	<2.13E+01	0.00E+00	2.13E+01
			Cs-137	<2.41E+01	0.00E+00	2.41E+01
			BaLa-140	<9.29E+00	0.00E+00	9.29E+00
			Be-7	3.16E+03	4.98E+02	2.73E+02
			K-40	7.02E+03	1.05E+03	4.03E+02
Sample ID: 595055	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.26E+01	0.00E+00	2.26E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 595055	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Co-58	<3.22E+01	0.00E+00	3.22E+01
			Fe-59	<7.78E+01	0.00E+00	7.78E+01
			Co-60	<3.60E+01	0.00E+00	3.60E+01
			Zn-65	<6.36E+01	0.00E+00	6.36E+01
			Zr-95	<5.27E+01	0.00E+00	5.27E+01
			Nb-95	<2.98E+01	0.00E+00	2.98E+01
			I-131	<3.41E+01	0.00E+00	3.41E+01
			Cs-134	<2.93E+01	0.00E+00	2.93E+01
			Cs-137	<1.34E+01	0.00E+00	1.34E+01
			BaLa-140	<4.04E+01	0.00E+00	4.04E+01
			Be-7	1.58E+03	3.50E+02	3.54E+02
			K-40	8.55E+03	1.12E+03	2.96E+02
Sample ID: 597362	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.17E+01	0.00E+00	3.17E+01
			Co-58	<2.68E+01	0.00E+00	2.68E+01
			Fe-59	<6.10E+01	0.00E+00	6.10E+01
			Co-60	<3.61E+01	0.00E+00	3.61E+01
			Zn-65	<4.47E+01	0.00E+00	4.47E+01
			Zr-95	<5.97E+01	0.00E+00	5.97E+01
			Nb-95	<3.82E+01	0.00E+00	3.82E+01
			I-131	<3.64E+01	0.00E+00	3.64E+01
			Cs-134	<3.21E+01	0.00E+00	3.21E+01
			Cs-137	<3.35E+01	0.00E+00	3.35E+01
			BaLa-140	<3.43E+01	0.00E+00	3.43E+01
			Be-7	9.86E+02	3.49E+02	4.59E+02
			K-40	4.24E+03	8.06E+02	4.90E+02
Sample ID: 599524	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.09E+01	0.00E+00	3.09E+01
			Co-58	<3.80E+01	0.00E+00	3.80E+01
			Fe-59	<7.03E+01	0.00E+00	7.03E+01
			Co-60	<4.49E+01	0.00E+00	4.49E+01
			Zn-65	<5.16E+01	0.00E+00	5.16E+01
			Zr-95	<5.68E+01	0.00E+00	5.68E+01
			Nb-95	<3.99E+01	0.00E+00	3.99E+01
			I-131	<3.28E+01	0.00E+00	3.28E+01
			Cs-134	<3.69E+01	0.00E+00	3.69E+01
			Cs-137	<3.19E+01	0.00E+00	3.19E+01
			BaLa-140	<3.11E+01	0.00E+00	3.11E+01
			Be-7	1.20E+03	3.44E+02	3.70E+02
			K-40	5.30E+03	9.80E+02	5.84E+02
Sample ID: 601843	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.36E+01	0.00E+00	2.36E+01
			Co-58	<2.69E+01	0.00E+00	2.69E+01
			Fe-59	<3.01E+01	0.00E+00	3.01E+01
			Co-60	<2.82E+01	0.00E+00	2.82E+01
			Zn-65	<6.44E+01	0.00E+00	6.44E+01
			Zr-95	<3.73E+01	0.00E+00	3.73E+01
			Nb-95	<3.03E+01	0.00E+00	3.03E+01
			I-131	<3.08E+01	0.00E+00	3.08E+01
			Cs-134	<3.80E+01	0.00E+00	3.80E+01
			Cs-137	<3.17E+01	0.00E+00	3.17E+01
			BaLa-140	<2.55E+01	0.00E+00	2.55E+01
			Be-7	2.31E+03	4.03E+02	2.39E+02
			K-40	3.16E+03	6.77E+02	4.77E+02

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 582735	Sample Dates: 1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.51E+01	0.00E+00	4.51E+01
			Co-58	<4.22E+01	0.00E+00	4.22E+01
			Fe-59	<9.61E+01	0.00E+00	9.61E+01
			Co-60	<7.51E+01	0.00E+00	7.51E+01
			Zn-65	<1.20E+02	0.00E+00	1.20E+02
			Zr-95	<6.38E+01	0.00E+00	6.38E+01
			Nb-95	<3.55E+01	0.00E+00	3.55E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 582735	Sample Dates: 1/3/2023 - 1/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<4.77E+01	0.00E+00	4.77E+01
			Cs-134	<2.96E+01	0.00E+00	2.96E+01
			Cs-137	<5.54E+01	0.00E+00	5.54E+01
			BaLa-140	<3.89E+01	0.00E+00	3.89E+01
			Be-7	1.61E+03	4.51E+02	4.79E+02
			K-40	4.15E+03	9.46E+02	6.21E+02
			Mn-54	<1.53E+01	0.00E+00	1.53E+01
			Co-58	<1.35E+01	0.00E+00	1.35E+01
			Fe-59	<3.38E+01	0.00E+00	3.38E+01
			Co-60	<1.47E+01	0.00E+00	1.47E+01
			Zn-65	<3.15E+01	0.00E+00	3.15E+01
			Zr-95	<2.40E+01	0.00E+00	2.40E+01
			Nb-95	<1.30E+01	0.00E+00	1.30E+01
			I-131	<1.43E+01	0.00E+00	1.43E+01
			Cs-134	<1.61E+01	0.00E+00	1.61E+01
			Cs-137	<1.46E+01	0.00E+00	1.46E+01
			BaLa-140	<1.10E+01	0.00E+00	1.10E+01
			Be-7	4.34E+03	4.78E+02	1.88E+02
			K-40	2.87E+03	4.24E+02	2.37E+02
Sample ID: 586134	Sample Dates: 3/6/2023 - 3/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.74E+01	0.00E+00	1.74E+01
			Co-58	<1.55E+01	0.00E+00	1.55E+01
			Fe-59	<3.42E+01	0.00E+00	3.42E+01
			Co-60	<1.83E+01	0.00E+00	1.83E+01
			Zn-65	<3.84E+01	0.00E+00	3.84E+01
			Zr-95	<2.53E+01	0.00E+00	2.53E+01
			Nb-95	<1.58E+01	0.00E+00	1.58E+01
			I-131	<1.73E+01	0.00E+00	1.73E+01
			Cs-134	<1.90E+01	0.00E+00	1.90E+01
			Cs-137	<1.64E+01	0.00E+00	1.64E+01
			BaLa-140	<1.69E+01	0.00E+00	1.69E+01
			Be-7	3.12E+03	3.86E+02	2.10E+02
			K-40	4.19E+03	5.45E+02	2.05E+02
Sample ID: 587516	Sample Dates: 4/3/2023 - 4/3/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.02E+01	0.00E+00	3.02E+01
			Co-58	<2.51E+01	0.00E+00	2.51E+01
			Fe-59	<4.40E+01	0.00E+00	4.40E+01
			Co-60	<2.71E+01	0.00E+00	2.71E+01
			Zn-65	<5.69E+01	0.00E+00	5.69E+01
			Zr-95	<4.77E+01	0.00E+00	4.77E+01
			Nb-95	<3.01E+01	0.00E+00	3.01E+01
			I-131	<2.56E+01	0.00E+00	2.56E+01
			Cs-134	<2.71E+01	0.00E+00	2.71E+01
			Cs-137	<3.13E+01	0.00E+00	3.13E+01
			BaLa-140	<2.83E+01	0.00E+00	2.83E+01
			Be-7	6.74E+02	2.16E+02	2.81E+02
			K-40	5.33E+03	7.75E+02	5.06E+02
Sample ID: 589605	Sample Dates: 5/1/2023 - 5/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.56E+01	0.00E+00	1.56E+01
			Co-58	<1.49E+01	0.00E+00	1.49E+01
			Fe-59	<2.63E+01	0.00E+00	2.63E+01
			Co-60	<1.68E+01	0.00E+00	1.68E+01
			Zn-65	<3.44E+01	0.00E+00	3.44E+01
			Zr-95	<3.06E+01	0.00E+00	3.06E+01
			Nb-95	<1.60E+01	0.00E+00	1.60E+01
			I-131	<1.64E+01	0.00E+00	1.64E+01
			Cs-134	<1.75E+01	0.00E+00	1.75E+01
			Cs-137	<1.57E+01	0.00E+00	1.57E+01
			BaLa-140	<1.63E+01	0.00E+00	1.63E+01
			Be-7	6.56E+02	1.65E+02	2.02E+02
			K-40	4.45E+03	5.55E+02	1.91E+02

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 590709	Sample Dates: 6/5/2023 - 6/5/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.41E+01	0.00E+00	2.41E+01
			Co-58	<2.45E+01	0.00E+00	2.45E+01
			Fe-59	<3.92E+01	0.00E+00	3.92E+01
			Co-60	<3.00E+01	0.00E+00	3.00E+01
			Zn-65	<5.92E+01	0.00E+00	5.92E+01
			Zr-95	<3.68E+01	0.00E+00	3.68E+01
			Nb-95	<2.42E+01	0.00E+00	2.42E+01
			I-131	<2.32E+01	0.00E+00	2.32E+01
			Cs-134	<2.48E+01	0.00E+00	2.48E+01
			Cs-137	<2.87E+01	0.00E+00	2.87E+01
			BaLa-140	<2.46E+01	0.00E+00	2.46E+01
			Be-7	4.76E+02	2.14E+02	3.07E+02
			K-40	3.22E+03	5.49E+02	3.20E+02
Sample ID: 591905	Sample Dates: 7/3/2023 - 7/3/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.42E+01	0.00E+00	3.42E+01
			Co-58	<3.78E+01	0.00E+00	3.78E+01
			Fe-59	<9.70E+01	0.00E+00	9.70E+01
			Co-60	<2.89E+01	0.00E+00	2.89E+01
			Zn-65	<5.88E+01	0.00E+00	5.88E+01
			Zr-95	<4.52E+01	0.00E+00	4.52E+01
			Nb-95	<3.71E+01	0.00E+00	3.71E+01
			I-131	<3.55E+01	0.00E+00	3.55E+01
			Cs-134	<5.15E+01	0.00E+00	5.15E+01
			Cs-137	<3.13E+01	0.00E+00	3.13E+01
			BaLa-140	<3.25E+01	0.00E+00	3.25E+01
			Be-7	8.33E+02	3.27E+02	4.26E+02
			K-40	6.02E+03	1.00E+03	8.46E+01
Sample ID: 593623	Sample Dates: 8/7/2023 - 8/7/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.63E+01	0.00E+00	3.63E+01
			Co-58	<2.73E+01	0.00E+00	2.73E+01
			Fe-59	<4.42E+01	0.00E+00	4.42E+01
			Co-60	<2.81E+01	0.00E+00	2.81E+01
			Zn-65	<5.69E+01	0.00E+00	5.69E+01
			Zr-95	<5.72E+01	0.00E+00	5.72E+01
			Nb-95	<2.86E+01	0.00E+00	2.86E+01
			I-131	<3.12E+01	0.00E+00	3.12E+01
			Cs-134	<3.30E+01	0.00E+00	3.30E+01
			Cs-137	<2.65E+01	0.00E+00	2.65E+01
			BaLa-140	<3.02E+01	0.00E+00	3.02E+01
			Be-7	1.14E+03	3.17E+02	3.19E+02
			K-40	4.93E+03	8.74E+02	8.24E+01
Sample ID: 595056	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.68E+01	0.00E+00	2.68E+01
			Co-58	<2.12E+01	0.00E+00	2.12E+01
			Fe-59	<2.92E+01	0.00E+00	2.92E+01
			Co-60	<1.73E+01	0.00E+00	1.73E+01
			Zn-65	<6.19E+01	0.00E+00	6.19E+01
			Zr-95	<3.50E+01	0.00E+00	3.50E+01
			Nb-95	<2.57E+01	0.00E+00	2.57E+01
			I-131	<3.15E+01	0.00E+00	3.15E+01
			Cs-134	<2.40E+01	0.00E+00	2.40E+01
			Cs-137	<2.06E+01	0.00E+00	2.06E+01
			BaLa-140	<3.91E+01	0.00E+00	3.91E+01
			Be-7	9.28E+02	2.77E+02	3.45E+02
			K-40	4.56E+03	7.09E+02	2.99E+02
Sample ID: 597363	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV				
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.57E+01	0.00E+00	2.57E+01
			Co-58	<1.96E+01	0.00E+00	1.96E+01
			Fe-59	<4.24E+01	0.00E+00	4.24E+01
			Co-60	<3.27E+01	0.00E+00	3.27E+01
			Zn-65	<6.50E+01	0.00E+00	6.50E+01
			Zr-95	<4.31E+01	0.00E+00	4.31E+01
			Nb-95	<2.89E+01	0.00E+00	2.89E+01
			I-131	<2.10E+01	0.00E+00	2.10E+01

OCONEE Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 093 [CONTROL - SE @ 9.34 miles]

Sample ID: 597363	Sample Dates: 10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<2.88E+01	0.00E+00	2.88E+01
			Cs-137	<2.63E+01	0.00E+00	2.63E+01
			BaLa-140	<1.79E+01	0.00E+00	1.79E+01
			Be-7	1.33E+03	3.11E+02	3.50E+02
			K-40	5.98E+03	8.62E+02	4.40E+02
Sample ID: 599525	Sample Dates: 11/6/2023 - 11/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.98E+01	0.00E+00	2.98E+01
			Co-58	<2.53E+01	0.00E+00	2.53E+01
			Fe-59	<6.79E+01	0.00E+00	6.79E+01
			Co-60	<3.68E+01	0.00E+00	3.68E+01
			Zn-65	<7.55E+01	0.00E+00	7.55E+01
			Zr-95	<6.08E+01	0.00E+00	6.08E+01
			Nb-95	<3.41E+01	0.00E+00	3.41E+01
			I-131	<3.77E+01	0.00E+00	3.77E+01
			Cs-134	<3.10E+01	0.00E+00	3.10E+01
			Cs-137	<3.71E+01	0.00E+00	3.71E+01
			BaLa-140	<4.43E+01	0.00E+00	4.43E+01
			Be-7	6.14E+02	3.16E+02	4.53E+02
			K-40	4.36E+03	8.33E+02	3.69E+02
Sample ID: 601844	Sample Dates: 12/4/2023 - 12/4/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.17E+01	0.00E+00	3.17E+01
			Co-58	<3.51E+01	0.00E+00	3.51E+01
			Fe-59	<7.62E+01	0.00E+00	7.62E+01
			Co-60	<3.29E+01	0.00E+00	3.29E+01
			Zn-65	<5.76E+01	0.00E+00	5.76E+01
			Zr-95	<4.38E+01	0.00E+00	4.38E+01
			Nb-95	<2.88E+01	0.00E+00	2.88E+01
			I-131	<3.15E+01	0.00E+00	3.15E+01
			Cs-134	<3.34E+01	0.00E+00	3.34E+01
			Cs-137	<2.89E+01	0.00E+00	2.89E+01
			BaLa-140	<4.39E+01	0.00E+00	4.39E+01
			Be-7	9.06E+02	2.77E+02	2.81E+02
			K-40	5.90E+03	9.97E+02	3.83E+02

APPENDIX F

ERRATA TO PREVIOUS REPORTS

There are no errata to be appended to the
2023 Oconee Nuclear Station AREOR.

Enclosure 6
RA-24-0031

ENCLOSURE 6: [RNP Annual Radiological Environmental Operating Report](#)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY PROGRESS, LLC
H. B. ROBINSON STEAM ELECTRIC PLANT
Unit No. 2

2023



TABLE OF CONTENTS

1.0 Executive Summary	1-1
2.0 Introduction	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-1
2.3 Statistical and Calculational Methodology	2-2
2.3.1 Estimation of the Mean Value	2-2
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-3
3.0 Interpretation of Results	3-1
3.1 Airborne Radioiodine and Particulates	3-2
3.2 Surface Water	3-6
3.3 Ground Water	3-8
3.4 Milk	3-9
3.5 Broadleaf Vegetation	3-10
3.6 Food Products	3-13
3.7 Fish	3-14
3.8 Shoreline Sediment	3-16
3.9 Direct Gamma Radiation	3-17
3.9.1 Environmental TLD	3-17
3.10 Land Use Census	3-21
4.0 Quality Assurance	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Interlaboratory Comparison Program	4-2
4.5.1 Eckert & Ziegler Analytics Cross Check Program	4-2
4.6 Split Comparison Program	4-2
4.7 TLD Intercomparison Program	4-2

Appendices

Appendix A: Environmental Sampling and Analysis Procedures	A-1
I. Change of Sampling Procedures	A-2
II. Description of Analysis Procedures	A-2
III. Change of Analysis Procedures	A-3
Appendix B: Radiological Environmental Monitoring Program – Data Summary	B-1
Air Particulate	B-2
Air Radioiodine	B-2
Surface Water	B-2
Ground Water	B-2
Food Products	B-2
Broadleaf Vegetation	B-3
Fish	B-3
Shoreline Sediments	B-3

Direct Gamma Radiation (TLD)	B-3
Appendix C: Sampling Deviations and Unavailable Analyses	C-1
C.1 Sampling Deviations	C-2
C.2 Unavailable Analyses	C-2
Appendix D: Analytical Deviations	D-1
D.1 Analytical Deviations	D-2
Appendix E: Radiological Environmental Monitoring Program Results	E-1
Appendix F: Errata to Previous Reports	F-1

LIST OF FIGURES

2.1-1	Radiological Environmental Sampling Locations (One Mile Radius)	2-4
2.1-2	Radiological Environmental Sampling Locations (Ten Mile Radius)	2-5
2.1-3	Radiological Environmental Sampling Locations (>10 Mile Radius)	2-6
3.1	Concentration of Gross Beta in Air Particulate	3-3
3.2	Concentration of Tritium in Surface Water	3-6
3.5	Concentration of Cs-137 in Broadleaf Vegetation	3-11
3.7	Concentration of Cs-137 in Fish	3-14
3.9	Direct Gamma Radiation (TLD) Results	3-19
3.10	Robinson Nuclear Plant 2023 Land Use Census Map	3-23

LIST OF TABLES

2.1-A	Radiological Monitoring Program Sampling Locations	2-7
2.1-B	Radiological Monitoring Program Sampling Locations (TLD Sites)	2-8
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-9
2.2-B	REMP Analysis Frequency	2-9
2.2-C	A Priori Lower Limits of Detection (LLD)	2-10
3.1-A	Mean Concentration of Gross Beta in Air Particulate	3-4
3.1-B	Mean Concentration of Gross Beta in Air Radioiodine (I-131)	3-5
3.2	Mean Concentration of Tritium in Surface Water	3-7
3.5	Mean Concentration of Radionuclides in Broadleaf Vegetation (pCi/kg)	3-12
3.7	Mean Concentration of Radionuclides in Fish (pCi/kg)	3-15
3.9	Direct Gamma Radiation (TLD) Results	3-20
3.10	HBRSEP Land Use Census Comparison (2022 – 2023)	3-22
4.0-A	Eckert & Ziegler Analytics Cross Check Program	4-3
4.0-B	2023 Environmental Dosimeter Cross Check Results	4-5

LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

A	Annually
AP	Air Particulate
AR	Air Radioiodine/ Air Cartridge
AREOR	Annual Radiological Environmental Operating Report
BLV	Broadleaf Vegetation
C	Control
CM	Community
CR	Condition Report (analogous to Nuclear Condition Report (NCR))
EZA	Eckert & Ziegler Analytics
FI	Fish
FP	Food Product
GEL	General Engineering Laboratories, LLC
GPS	Global Positioning System
GW	Ground Water
I	Indicator
IR	Inner Ring - TLDs
ISFSI	Independent Spent Fuel Storage Installation
HBRSEP or RNP	H. B. Robinson Steam Electric Plant, Unit No. 2
LLD	Lower Limit of Detection
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mR	milliroentgen
mR/Std-Qtr	milliroentgen per standard quarter
MWe	Megawatt (electrical)
NCR	Nuclear Condition Report (analogous to Condition Report (CR))
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Off-Site Dose Calculation Manual
OR	Outer Ring - TLDs
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
PI	Power Interrupt
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SB	Site Boundary
SS	Sediment – Shoreline
SI	Special Interest - TLDs
SW	Surface Water
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP or Robinson Nuclear Plant) Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2023.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by plant operations, and a summary of environmental radiological sampling results. Quality assurance practices and program changes are also discussed.

Sampling activities were conducted as prescribed by the HBRSEP ODCM. Required analyses were performed and detection capabilities were met for the collected samples required by the ODCM. Eight-hundred-eighty-four samples were analyzed comprising 884 test results in order to compile data for the 2023 HBRSEP Annual Radiological Environmental Operating Report (AREOR). No new sampling locations were added to the HBRSEP REMP as a result of the 2023 land use census.

Concentrations observed in the environment in 2023 for plant related radionuclides were within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in surface water are higher than the activities reported for samples collected at control locations. The radioactivity concentrations of the control location samples of broadleaf vegetation were higher than those samples collected at the indicator locations. All positively identified measurements attributable to plant operation were within limits as specified in ODCM.

The continued operation of HBRSEP has not contributed measurable radiation or the presence of gamma radioactivity in the environmental media monitored. The Lake Robinson surface water samples revealed tritium concentrations that are well within the applicable regulatory limits. The radiological environmental data for 2023 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to HBRSEP operations in 2023 were within limits as specified in the HBRSEP ODCM, thus presenting no significant impact on the environment or public safety.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

The H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP) is located in Darlington County, South Carolina, approximately five (5) miles northwest of Hartsville, and approximately twenty five (25) miles northwest of Florence, South Carolina. Lake Robinson is adjacent to the plant and is the source of cooling water. The lake was impounded during the construction of Robinson Unit No.1 (coal fired). The lake is fed by Black Creek and is approximately 2,250 acres in area. The plant intake is at the southern portion of the lake near the dam. The discharge is to a canal which conveys the cooling water to a point 4.2 miles north of the plant, where it returns to Lake Robinson.

HBRSEP consists of a pressurized water reactor (Unit No. 2) that is designed to produce 2339 Megawatts thermal (MWt). The site was shared with a pulverized coal unit (Unit No.1), which established commercial operation in 1960. Unit 1 is now offline and has been decommissioned since October 2012. Commercial production was initiated by Unit No. 2 on March 7, 1971.

The H. B. Robinson Steam Electric Plant site centerline used for GPS measurements was referenced from the H. B. Robinson Steam Electric Plant (HBSEP) Updated Final Safety Analysis Report (UFSAR). Waypoint coordinates used for HBSEP GPS measurements were latitude 34° 24' 02" N and longitude 80° 09' 05" W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. All GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using two significant figures.

Figures 2.1-1, 2.1-2 and 2.1-3 are One Mile Radius, Ten Mile Radius, and >10 Mile Radius maps, respectively, depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

The Radiological Environmental Monitoring Program (REMP) has been in effect at HBRSEP since 1973. The operational program provides surveillance and backup support of detailed effluent monitoring, which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the HBRSEP Off-Site Dose Calculation Manual (ODCM), with regards to sample media, sampling locations, sampling frequency and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of plant origin from natural or other "man-made" environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related

exposures from releases of radionuclides from HBRSEP. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10 CFR 50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by the HBRSEP Off-Site Dose Calculation Manual (ODCM), is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR 50. Results are shown in Table 3.10.

Participation in an interlaboratory comparison program as required by HBRSEP ODCM Operational Requirements provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10 CFR 50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. "Net activity (or concentration)" is the activity (or concentration) determined to be present in the sample. No "Minimum Detectable Activity", "Lower Limit of Detection", "Less Than Level", or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$ = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

x_i = net activity (or concentration) for sample i .

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the REMP.

LLD - The LLD, as defined in the ODCM as the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLD's for each sample medium and selected radionuclides are given in the ODCM and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the 2011 Japan earthquake and tsunami, which triggered the Fukushima Dai-ichi nuclear power plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

Radiological Environmental Sampling Locations (One Mile Radius)

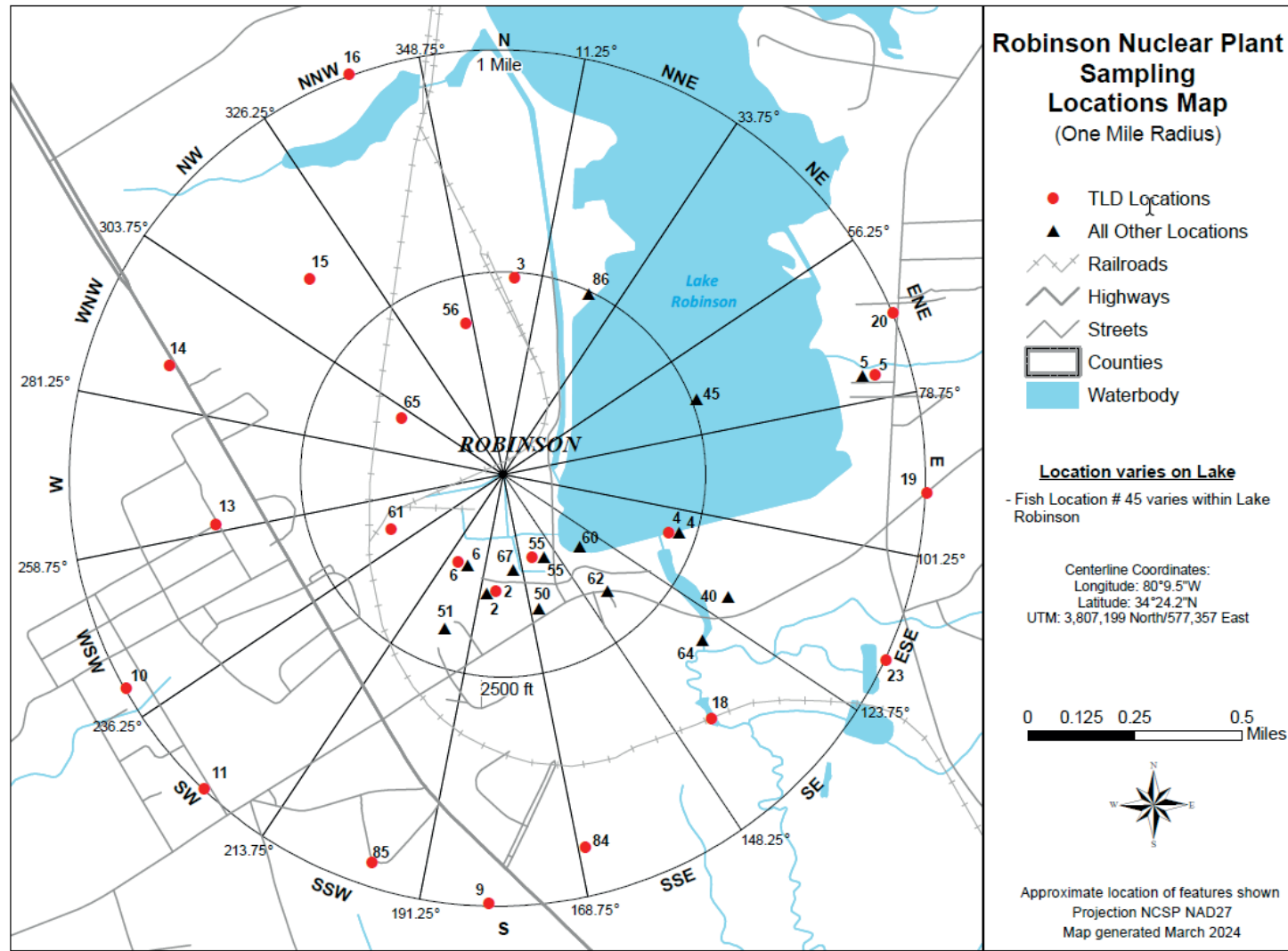


Figure 2.1-2

**Radiological Environmental Sampling Locations
(Ten Mile Radius)**

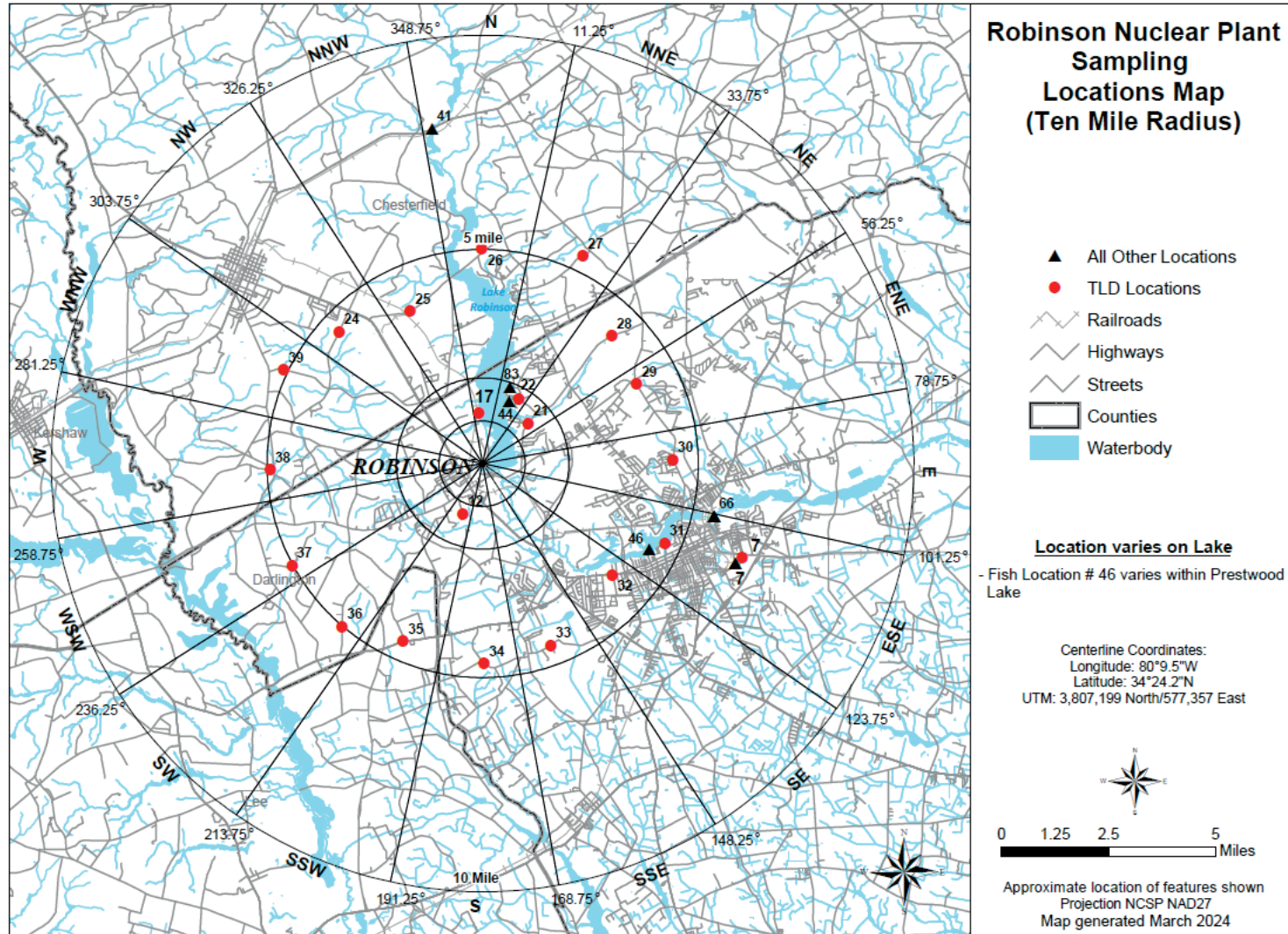


Figure 2.1-3

**Radiological Environmental Sampling Locations
(>10 Mile Radius)**

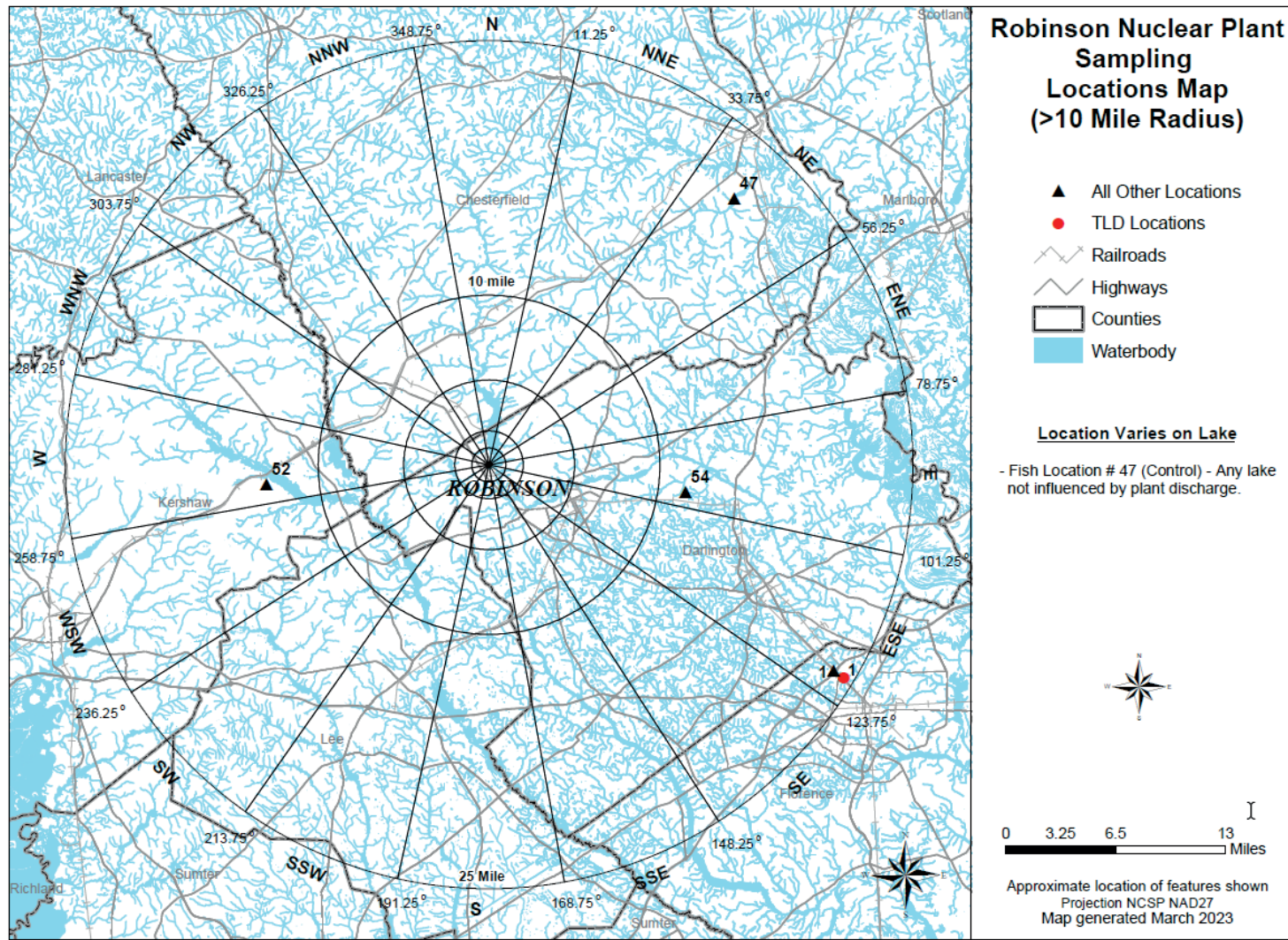


TABLE 2.1-A

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 (HBRSEP)
RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

Table 2.1-A Codes			
BW	BiWeekly	Q	Quarterly
C	Control	SA	Semiannually
CM	Community	SB	Site Boundary
I	Indicator	SM	Semimonthly
M	Monthly	W	Weekly

Site #	Measure Type*	Location Description**	Air Rad. & Particulate*	Surface Water ^{(c)*}	Shoreline Sediment*	Food Product ^{(a)*}	Fish*	Broadleaf Vegetation ^{(b)*}	Ground Water*
1	C ^(d)	24.4 miles ESE Florence, S.C.	W/Q						
2 ^(e)	I	0.2 miles S Information Center	W/Q						
4 ^(e)	I	0.4 miles ESE Spillway	W/Q						
5	I	0.9 miles ENE East shore of lake near Johnson's Landing	W/Q, CM						
6	I	0.2 miles SSW Information Center	W/Q, SB						
7 ^(e)	I	6.4 miles ESE CP&L facility on RR Avenue, Hartsville	W/Q						
40	I	0.6 miles ESE Black Creek at Old Camden Road (S-16-23) – Lake Robinson		M					
41	C ^(d)	8.0 miles N Black Creek at US Hwy 1		M					
44	I	1.6 miles NNE East Shore of Lake, Shady Rest Club			SA				
45	I	Site varies within Lake Robinson					SA		
46	I	Site varies within Prestwood Lake					SA		
47	C ^(d)	Control station, any lake not influenced by plant discharge					SA		
50	I	SSE Close to Site Boundary						M, SB	
51 ^(e)	I	SSW Close to Site Boundary						M, SB	
52	C ^(d)	10 miles W near Bethune						M	
54	I	10.1 miles E Auburndale Plantation (if irrigating from Black Creek)				A			
55	I	0.2 miles SSE South of West Settling Pond	W/Q, SB						
60	I	0.2 miles SE Robinson Picnic Area	W/Q						
62 ^(e)	I	SE Close to Site Boundary						M, SB	
64	I	0.6 miles SE Artesian Well							Q
67 ^(e)	I	S Close to Site Boundary						M, SB	
83 ^(e)	I	1.7 miles NNE, near Shady Rest Club						M	
86	I	NNE Close to Site Boundary						M, SB	

(a) During Harvest/Growing Season.

(b) During the growing season May through October.

(c) The "upstream sample" shall be taken at a distance beyond significant influence of the discharge. The "downstream" sample shall be taken in an area beyond but near mixing zone.

(d) The purpose of this sample is to obtain background information.

(e) Sample Point was removed in RNP ODCM Revision 38.

* Refer to List of Acronyms Used in this Text in Table of Contents

** GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.1-B

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 (HBRSEP)

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)^(a)

Table 2.1-B Codes	
C	Control ^(b)
IR	Inner Ring
OR	Outer Ring

Site #	Measure Type	Location*	Distance (miles)*	Sector	Site #	Measure Type	Location*	Distance (miles)*	Sector
1	C ^(b)	Florence, SC	24.4	ESE	25	OR	Lake Robinson Road (#S-13-346)	4.0	NNW
2	IR	Information Center ^{(c)(d)}	0.2	S	26	OR	Lake Robinson Road (#S-13-346)	5.0	N
3	IR	Microwave Tower	0.5	N	27	OR	Prospect Church Road (#S-13-763)	5.4	NNE
4	IR	Spillway	0.4	ESE	28	OR	New Market Road (#S-13-39)	4.3	NE
5	IR	East shore of lake near Johnson's Landing	0.9	ENE	29	OR	Ruby Road (#S-16-20)	4.0	ENE
6	IR	Information Center ^{(c)(d)}	0.2	SSW	30	OR	Ruby Road (#S-16-20)	4.4	E
7	OR	CP&L Facility on RR Avenue, Hartsville	6.4	ESE	31	OR	Lakeshore Drive	4.6	ESE
9	IR	Transmission right-of-way	1.0	S	32	OR	Transmission right-of-way	4.0	SE
10	IR	Clyde Church of God	1.0	WSW	33	OR	Bay Road (#S-16-493)	4.5	SSE
11	IR	Old Camden Road	1.0	SW	34	OR	Kellybell Road (#S-16-772)	4.7	S
13	IR	Corner of Saluda and Sandpit Roads	0.7	W	35	OR	Kelly Bridge Road (#S-31-51)	4.5	SSW
14	IR	First Baptist Church of Pine Ridge	0.8	WNW	36	OR	Kingston Drive	5.0	SW
15	IR	Transmission right-of-way	0.7	NW	37	OR	Pine Cone Road	5.0	WSW
16	IR	South side of Darlington Co. I.C. Turbine Plant	1.0	NNW	38	OR	Union Church Road	4.9	W
17	IR	Darlington Co. Plant emergency fire pump	1.2	N	39	OR	King's Pond Road	5.1	WNW
18	IR	Old Black Creek RR trestle	0.7	SE	55	IR	South of the West Settling Pond	0.2	SSE
19	IR	Old Camden Road (#S-16-23)	1.0	E	56	IR	North of the center of the 7P-ISFSI ^{(c)(d)}	0.4	NNW
20	IR	New Market Road (#S-16-39)	1.0	ENE	61	IR	West Parking lot near RR tracks ^(d)	0.3	WSW
21	IR	New Market Road (#S-16-39)	1.4	NE	65	IR	Northwest of the 24P-ISFSI ^(d)	0.3	WNW
22	IR	Shady Rest entrance off of Cloverdale Drive	1.7	NNE	84	IR	Greater Heights Baptist Church	0.9	SSE
23	IR	New Market Road (#S-16-39)	1.0	ESE	85	IR	Off Hayden Lane	0.9	SSW
24	OR	Sowell Road (#S-13-711)	4.6	NW					

(a) One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating, dosimeters. For the purpose of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation.

(b) The purpose of this sample is to obtain background information.

(c) Required for monitoring of the 7P-ISFSI.

(d) Required for monitoring of the 24P-ISFSI.

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

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

(a) For drinking water samples. This is 40 CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 20 pCi/liter may be used.

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic ^(b)	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X				
Air Particulate	Weekly				X ^(a)	
	Quarterly	X				
Direct Radiation	Quarterly					X
Surface Water	Monthly Composite ^(c)	X	X			
Ground Water	Quarterly ^(d)	X	X			
Shoreline Sediment	Semiannually	X				
Fish	Semiannually	X				
Broadleaf Vegetation	Monthly ^(f)	X				
Food Products	Annually ^(e)	X				

(a) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than ten times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.

(b) Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.

(c) A composite sample is one which the quantity (aliquot) of liquid sampled is proportional to the quantity of flowing liquid and in which the method of sampling employed results in a specimen that is representative of the liquid flow. In this program composite sample aliquots shall be collected at time intervals that very short (e.g., hourly) relative to the compositing period (e.g., monthly) in order to assure obtaining a representative sample.

(d) Ground water samples shall be taken when this source is tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination.

(e) If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continuously, sampling shall be monthly. Attention shall be paid to including samples of tuberous and root food products.

(f) When Available

TABLE 2.2-C

A PRIORI LOWER LIMITS OF DETECTION (LLD)^(a)

Analysis	Water (pCi/liter)	Airborne (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta		0.01				
H-3	2000 ^(c)					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95 ^(b)	15					
I-131	1 ^(d)	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140 ^(b)	15			15		

(a) The LLD is defined in Section 2.3.2.

(b) The specified LLD applies to the daughter nuclide of an equilibrium mixture of the parent and daughter nuclides.

(c) If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

(d) If no drinking water pathway exists, a value of 15 pCi/liter may be used.

3.0 INTERPRETATION OF RESULTS

Review of the 2023 analysis results was performed to identify changes in environmental levels as a results of plant operations. The review is summarized in this section. Data from 2023 was compared to historical data. Sample data for some media is not directly comparable to earlier operational sample results because of either significant changes in the analysis methods or changes in the reporting of the results. Summary tables containing 2023 information required by Technical Specifications Administrative Control 5.6.2 are located in Appendix B. REMP results for 2023 are located in Appendix E.

Evaluation for significant trends was performed for the radionuclides listed as required LLDs within the HBRSEP ODCM. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Trending of air particulate gross beta results is being performed. Trending is also performed for other radionuclides that are detected and could have been the result of station effluents. Only ODCM required radionuclides were detected in 2023.

Trending was performed by comparing annual mean concentrations of any effluent related detected radionuclide to historical results. Factors evaluated include the frequency of detection and the concentration terms of the percent of the radionuclide's ODCM reporting level (Table 2.2-A). All maximum percent of reporting level values were well below the 100% action level. The highest value reached during 2023 due to HBRSEP operation was 3,010 pCi/liter which is 10% of the reporting level for H-3 in surface water sample collected at location 40.

Review of the 2023 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from HBRSEP and surrounding areas that were attributable to plant operations. The radiological environmental data for 2023 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to HBRSEP operations in 2023 were within limits as specified in the HBRSEP ODCM, thus presenting no significant impact on the environment or public safety.

Data presented in Sections 3.1 – 3.9 support the conclusion that there were no significant increases in radionuclides in the environment around HBRSEP due to plant operations in 2023. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2023 land use census data, shown in Section 3.10, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

Airborne particulate and radioiodine samples at each of ten locations were composited continuously by means of continuous air samplers. Supplemental air sampling locations 2 (Information Center 0.2 miles S), 4 (Spillway 0.4 miles ESE), and 7 (CP&L facility on Railroad Ave., Hartsville 6.4 miles ESE) were removed from the program March 30, 2023.

Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly.

During 2023, 299 continuously composited radioiodine and particulate samples were collected and analyzed, 247 from nine indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

There was no detectable I-131 in air samples in 2023. Table 3.1-B gives the highest indicator location annual mean and control location annual mean for I-131 since 1999. The tables show similar historical concentrations for both the indicator and control locations.

There were no detectable gamma emitting radionuclides detected in air particulate samples in 2023 due to HBRSEP operations. No gamma emitting particulate due to HBRSEP operations have been detected in indicator location samples from 1999-2023.

Gross beta analyses indicated $2.12\text{E-}2$ pCi/m³ at the indicator location with the highest annual mean and $2.27\text{E-}2$ pCi/m³ at the control location. Figure 3.1 and Table 3.1-A provide individual sample gross beta results for the highest annual mean indicator location and the control location concentrations since 1999 to 2023. The two sample locations' results are similar in concentration and have negligible variance. The gross beta activities decreased following the retirement of the coal steam unit in October 2012.

K-40 and Be-7 observed in air samples are naturally occurring radionuclides.

Figure 3.1

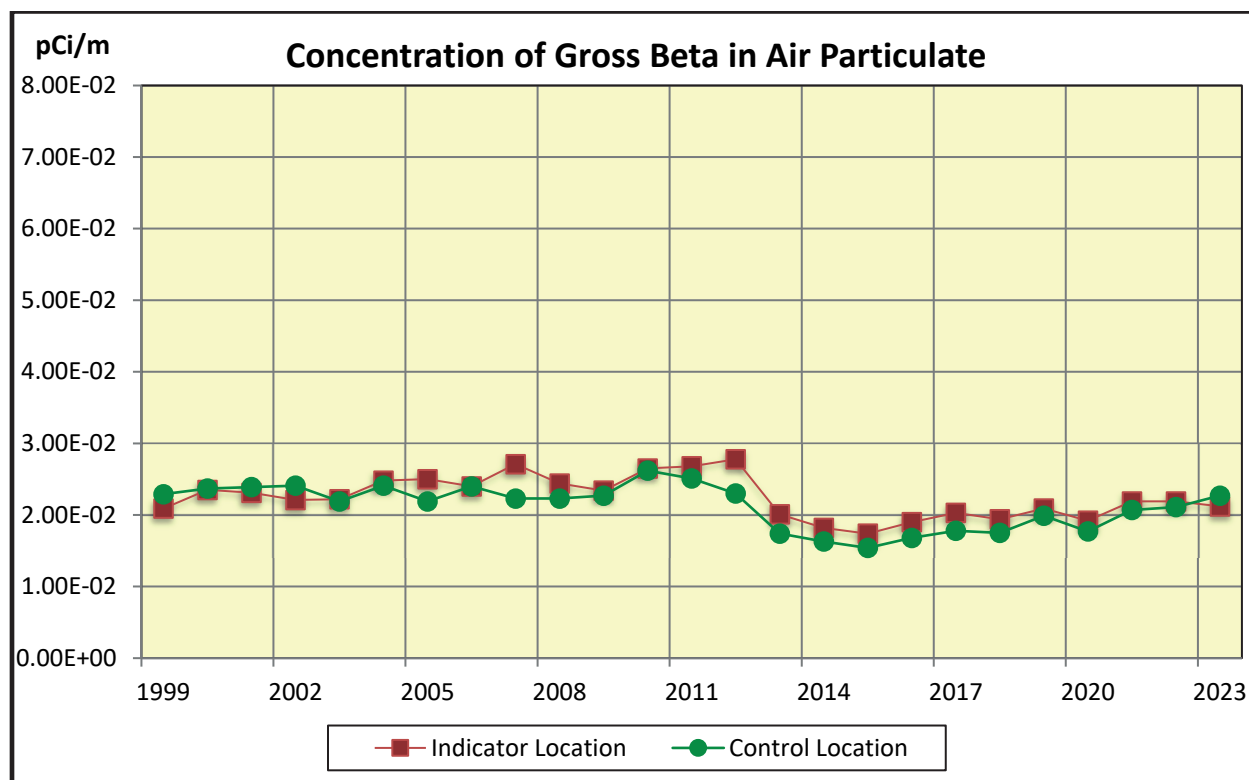


Table 3.1-A Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m³)	Control Location (pCi/m³)
1999	2.09E-2	2.29E-2
2000	2.35E-2	2.37E-2
2001	2.31E-2	2.39E-2
2002	2.21E-2	2.41E-2
2003	2.22E-2	2.19E-2
2004	2.48E-2	2.41E-2
2005	2.50E-2	2.19E-2
2006	2.40E-2	2.40E-2
2007	2.71E-2	2.23E-2
2008	2.44E-2	2.23E-2
2009	2.34E-2	2.27E-2
2010	2.65E-2	2.62E-2
2011	2.68E-2	2.51E-2
2012	2.78E-2	2.30E-2
2013	2.01E-2	1.74E-2
2014	1.82E-2	1.63E-2
2015	1.74E-2	1.54E-2
2016	1.90E-2	1.68E-2
2017	2.03E-2	1.78E-2
2018	1.94E-2	1.75E-2
2019	2.09E-2	1.99E-2
2020	1.92E-2	1.77E-2
2021	2.19E-2	2.07E-2
2022	2.19E-2	2.11E-2
2023	2.12E-2	2.27E-2

Table 3.1-B Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0
2006	0.00E+0	0.00E+0
2007	0.00E+0	0.00E+0
2008	0.00E+0	0.00E+0
2009	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0
2011 ⁽¹⁾	8.23E-2	8.10E-2
2012	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0
2014 ⁽²⁾	0.00E+0	0.00E+0
2015	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0
2019	0.00E+0	0.00E+0
2020	0.00E+0	0.00E+0
2021	0.00E+0	0.00E+0
2022	0.00E+0	0.00E+0
2023	0.00E+0	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 2011 concentrations affected by Fukushima Dai-ichi

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were observed due to the 2014 gamma spectroscopy system change.

3.2 SURFACE WATER

Gamma spectroscopy and tritium analyses were performed on 24 monthly surface water samples that were composited using water samplers that collected an aliquot every two hours. One indicator and one control location were sampled. The indicator is downstream of the liquid effluent release point.

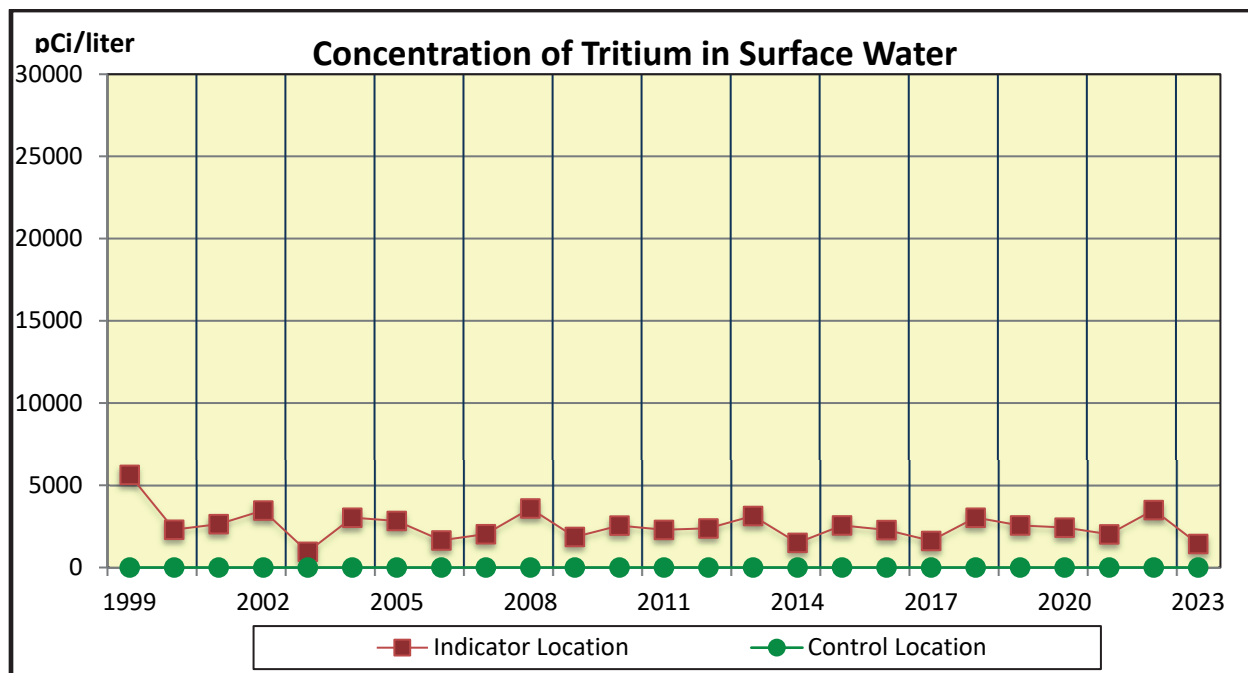
Tritium was detected in the 12 of the 12 indicator samples. The 2023 surface water highest annual mean tritium concentration was 1,430 pCi/liter. The individual samples ranged from 437 to 3,010 pCi/liter. For comparison purposes, the 2022 highest annual mean concentration was 3,500 pCi/liter. Tritium was not detected in any of the control surface water samples.

Figure 3.2 shows the indicator and control annual means for tritium since 1999. Table 3.2 lists the indicator and control annual means since 1999.

Gamma spectroscopy analysis did not detect any station related gamma activity during 2023. No gamma emitting radionuclides attributable to plant operations have been detected in surface water samples since 1999.

K-40 observed in surface water samples is a naturally occurring radionuclide.

Figure 3.2



There is no reporting level for tritium in surface water; however, if no drinking water pathway exists, a value of 30,000 pCi/l may be used.

Table 3.2 Mean Concentration of Tritium in Surface Water

Year	Indicator Location (pCi/l)	Control Location (pCi/l)
1999	5.64E+3	0.00E+0
2000	2.30E+3	0.00E+0
2001	2.64E+3	0.00E+0
2002	3.47E+3	0.00E+0
2003	9.53E+2	0.00E+0
2004	3.03E+3	0.00E+0
2005	2.83E+3	0.00E+0
2006	1.65E+3	0.00E+0
2007	2.03E+3	0.00E+0
2008	3.59E+3	0.00E+0
2009	1.86E+3	0.00E+0
2010	2.55E+3	0.00E+0
2011	2.29E+3	0.00E+0
2012	2.38E+3	0.00E+0
2013	3.14E+3	0.00E+0
2014	1.50E+3	0.00E+0
2015	2.56E+3	0.00E+0
2016	2.28E+3	0.00E+0
2017	1.62E+3	0.00E+0
2018	3.03E+3	0.00E+0
2019	2.56E+3	0.00E+0
2020	2.43E+3	0.00E+0
2021	2.02E+3	0.00E+0
2022	3.50E+3	0.00E+0
2023	1.43E+3	0.00E+0

0.00E+0 indicates no detectable measurements

3.3 GROUND WATER

Gamma spectroscopy and tritium analyses were performed on 4 quarterly ground water grab samples collected at one indicator location during 2023. There is no control ground water location.

Tritium analysis did not detect tritium in any of the indicator samples in 2023.

Gamma spectroscopy analyses did not detect any gamma emitting radionuclides attributable to plant operations during 2023.

K-40 observed in ground water samples is a naturally occurring radionuclide.

3.4 MILK

Milk monitoring has not been conducted due to the unavailability of milk samples in the area since July 17, 1998, when the dairy ceased operation. The 2023 Land use Census did not identify any milk animals within the 5 mile radius of the plant. Broadleaf sampling is conducted and is used to calculate dose to an individual via the vegetation-milk-man pathway.

3.5 BROADLEAF VEGETATION

Monthly samples were collected and a gamma spectroscopy analysis was performed on 21 broadleaf vegetation samples during 2023. Five indicator locations and one control location were sampled. Broadleaf Vegetation supplemental Locations 51 (SSW Close to Site Boundary), 62 (SE Close to Site Boundary), 67 (S Close to Site Boundary), and 83 (1.7 miles NNE, near Shady Rest Club) were removed from the REMP on March 30, 2023. Broadleaf Vegetation Location 86 (NNE Close to Site Boundary) was added to the REMP on March 30, 2023

During 2023, 5 of the 14 samples taken from the indicator locations identified Cs-137 activity with the highest annual mean concentration of 121 pCi/kg. Cs-137 was detected in 5 of the 7 samples taken from the control location with an annual mean concentration of 97.4 pCi/kg.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout, nuclear plant accidents and has been observed in samples from indicator and control locations since 1999. Figure 3.5 displays the highest annual mean indicator and control location concentrations for Cs-137 in broadleaf vegetation from 1999 to 2023 and Table 3.5 lists these values. Visual inspection of the tabular data reveals a slight increasing trend in Cs-137 activity, but is well below the 50 percent reporting limit.

K-40 and Be-7 observed in broadleaf vegetation samples are naturally occurring radionuclides.

Figure 3.5

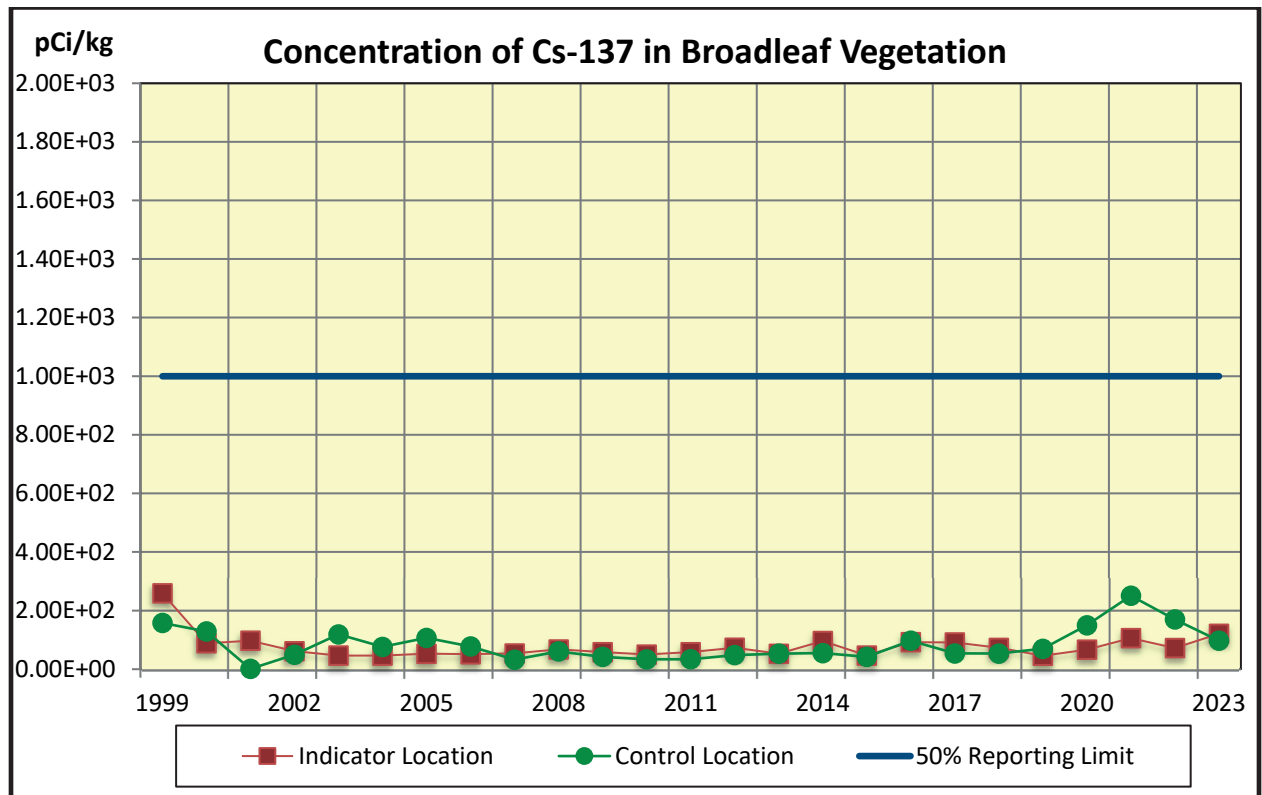


Table 3.5 Mean Concentrations of Radionuclides in Broadleaf Vegetation (pCi/kg)

Year	Cs-137 Indicator Location	Cs-137 Control Location
1999	2.59E+2	1.58E+2
2000	8.86E+1	1.29E+2
2001	9.72E+1	1.53E+0
2002	6.15E+1	4.96E+1
2003	4.66E+1	1.19E+2
2004	4.66E+1	7.64E+1
2005	5.27E+1	1.07E+2
2006	5.11E+1	7.76E+1
2007	5.38E+1	3.25E+1
2008	6.76E+1	6.06E+1
2009	5.84E+1	4.22E+1
2010	8.02E+1	3.38E+1
2011	5.84E+1	3.41E+1
2012	7.32E+1	4.83E+1
2013	5.27E+1	5.31E+1
2014 ⁽¹⁾	9.62E+1	5.51E+1
2015	4.68E+1	4.21E+1
2016	9.23E+1	9.72E+1
2017	9.12E+1	5.40E+1
2018	7.29E+1	5.34E+1
2019	4.60E+1	6.98E+1
2020	6.66E+1	1.50E+2
2021	1.06E+2	2.51E+2
2022	7.21E+1	1.70E+2
2023	1.21E+2	9.74E+1

(1) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were observed due to the 2014 gamma spectroscopy system change.

3.6 FOOD PRODUCTS

Gamma spectroscopy was performed on 1 food product sample collected during the harvest season of 2023. One indicator location is sampled. There were no gamma emitting radionuclides due to RNP plant operations identified in food product samples in 2023.

K-40 observed in food products samples is a naturally occurring radionuclide.

3.7 FISH

Gamma spectroscopy was performed on the edible portions of 12 fish samples during 2023. Two indicator locations and one control location were sampled.

During 2023, there were no other gamma emitting radionuclides detected due to RNP plant operations identified in indicator fish samples. Cs-137 was detected in 1 of the 4 control location samples with the highest annual mean concentration of 48.4 pCi/kg.

Figure 3.7 is a graph displaying the high annual means for Cs-137 from 1999 to 2023. Table 3.7 displays the highest annual mean indicator and control location concentrations for Cs-137 in fish from 1999 to 2023.

K-40 observed in fish samples is a naturally occurring radionuclide.

Figure 3.7

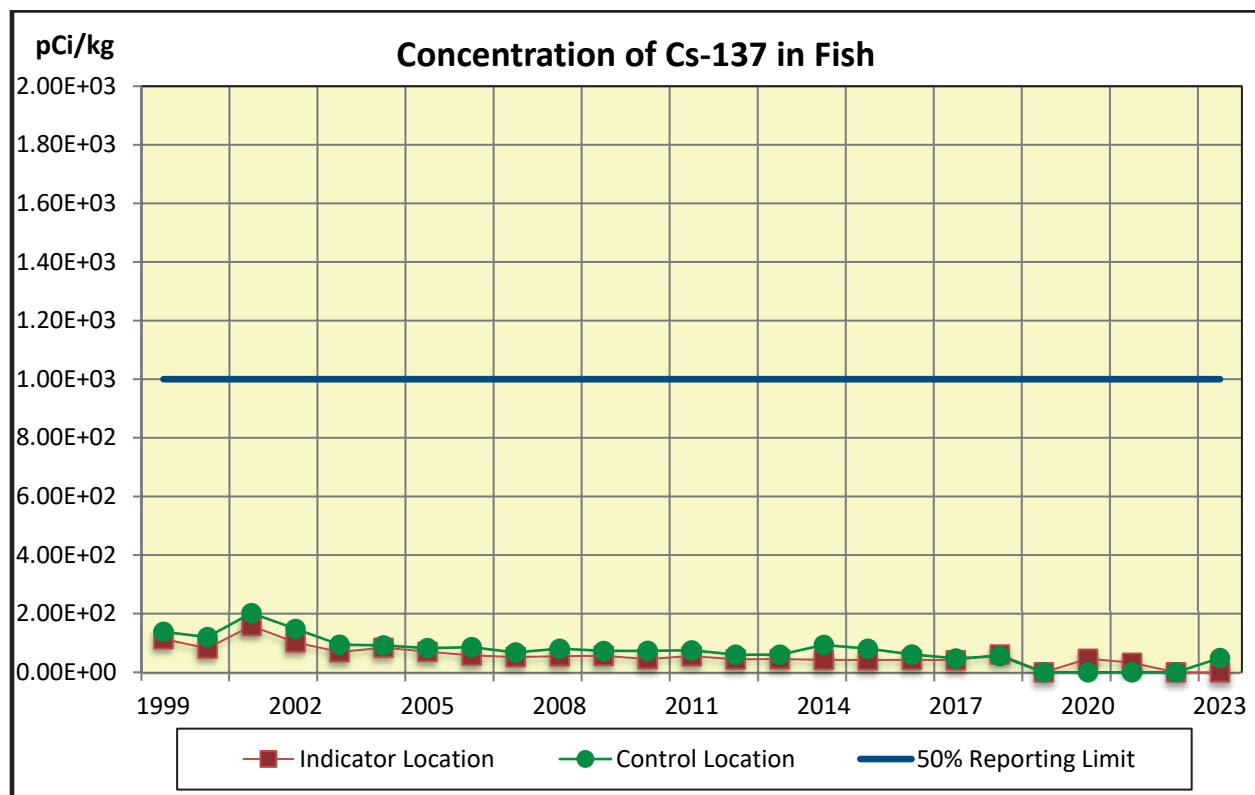


Table 3.7 Mean Concentrations of Radionuclides in Fish (pCi/kg)

Year	Cs-137 Indicator Location	Cs-137 Control Location
1999	1.13E+2	1.38E+2
2000	8.14E+1	1.20E+2
2001	1.58E+2	2.02E+2
2002	1.02E+2	1.48E+2
2003	6.87E+1	9.40E+1
2004	8.35E+1	9.16E+1
2005	7.00E+1	8.21E+1
2006	5.74E+1	8.56E+1
2007	5.15E+1	6.74E+1
2008	5.47E+1	8.04E+1
2009	5.59E+1	7.26E+1
2010	4.47E+1	7.28E+1
2011	5.52E+1	7.48E+1
2012	4.36E+1	5.97E+1
2013	4.47E+1	5.97E+1
2014 ⁽¹⁾	4.24E+1	9.32E+1
2015	4.16E+1	8.04E+1
2016	4.24E+1	6.06E+1
2017	4.09E+1	4.70E+1
2018	6.07E+1	5.53E+1
2019	0.00E+0	0.00E+0
2020	4.58E+1	0.00E+0
2021	3.23E+1	0.00E+0
2022	0.00E+0	0.00E+0
2023	0.00E+0	4.84E+1

0.00E+0 indicates no detectable measurements

(1) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were observed due to the 2014 gamma spectroscopy system change.

3.8 SHORELINE SEDIMENT

Gamma spectroscopy was performed on 2 sediment samples following the drying and removal of rocks and clams from the one indicator location during 2023. There were no gamma emitting radionuclides due to RNP plant operations identified in the sediment sample in 2023. There is no control shoreline sediment location.

K-40 observed in the sediment samples is a naturally occurring radionuclide.

3.9 DIRECT GAMMA RADIATION

3.9.1 ENVIRONMENTAL TLD

Robinson is licensed with an exclusion area boundary and low population distance defined by UFSAR Section 1.2.1 as 1400 ft and 4.5 miles respectively. The exclusion distance is the distance from the reactor to the closest point on the boundary of the exclusion area defined in 10CFR100. The low population distance is the distance from the reactor to the boundary of the low population zone defined in 10CFR100. No permanent public access is permitted within the exclusion area.

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-three locations, and Environmental TLD (Alpha & Bravo) dual placement was implemented for all RNP ODCM TLD locations effective first quarter 2020. There are 25 locations, one or more in each meteorological sector, designated as "inner ring" placed at distances within one mile from the site and in the general area of the site boundary. Due to close proximity with HBRSEP, and most being within the exclusion area boundary, inner ring TLD locations are not good indicators of radiation exposure to a member of the public but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. There are 17 TLD locations, one or more in each meteorological sector, designated as "outer ring" placed at distances of 6 to 8 kilometers from the site as is reasonably accessible and practical. All outer ring TLD locations are used as indicators. The one "control" location is 24.4 miles ESE from station center. This location was chosen to reduce the probability of influence from HBRSEP operation on data. The control location is not used as background subtraction in the TLD analysis. Its purpose is to provide a comparison to indicator locations.

A gamma exposure rate was determined for each TLD. In 2023, 171 TLDs were analyzed, 167 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly. Transit TLDs and laboratory background TLDs were used for determining transit and laboratory background dose and were subtracted from gross field readings as required by ANSI N545-1975. Figure 3.9 and Table 3.9 show TLD inner ring, outer ring, and control location annual averages in mR/Standard Quarter. Data is provided from 1999. As shown in the graph, historical inner and outer ring averages compare similarly, while control data is somewhat higher since the resurfacing of the parking lot at this location in 2018. Other differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations.

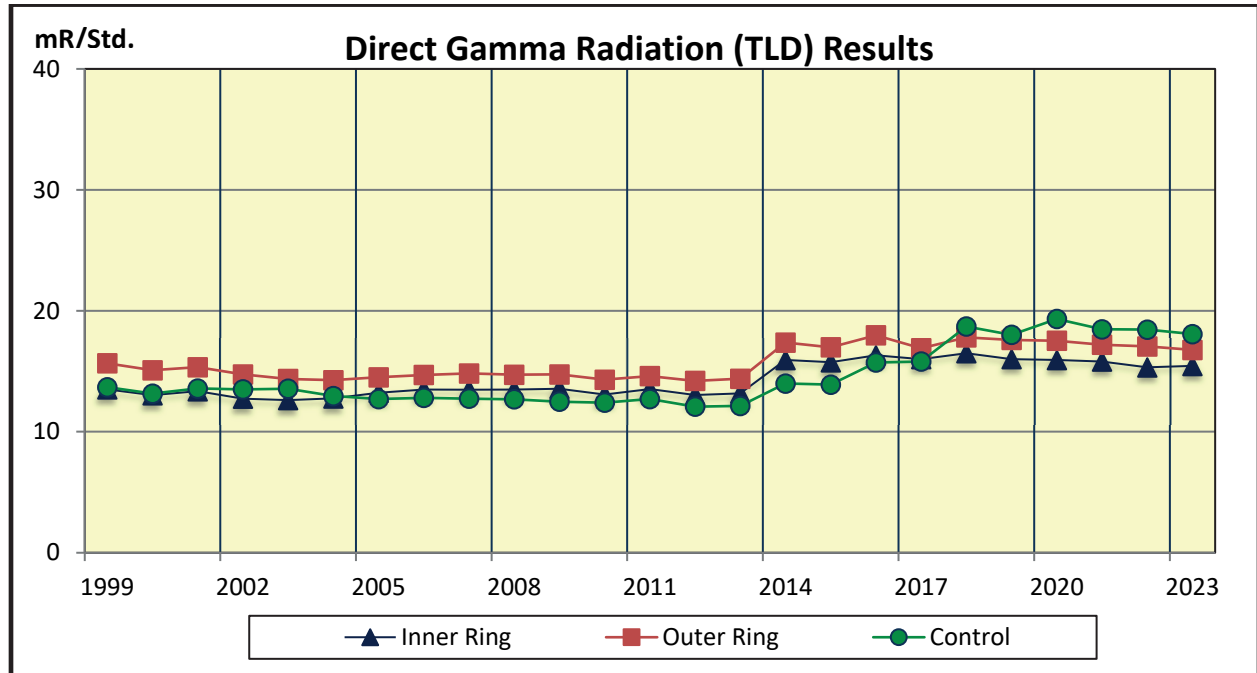
Quarterly, environmental ODCM TLD results are compared by location to its historical data to evaluate any significant changes. The comparison utilizes the location's average exposure history to determine if quarterly results fall within expected low and high ranges and provides a reliable indication of potential changes occurring at a specific TLD location. The low and high ranges are determined by the historical average + two standard deviations. The quarterly TLD evaluation implements portions of American National Standard ANSI/HPS N13.37-2014, "Environmental Dosimetry – Criteria for System Design and Implementation, for environmental Thermoluminescent Dosimeters (TLD)". The WP-RP-

ALL-0030 – Updated Radiological Environmental Monitoring Program TLD Analytical Method, describes the process implemented in late 2018 for the fleet TLD programs. TLD values identified as < Low Range or > High Range are evaluated in consideration of factors including possible TLD damage, sampling deviations, glow curve irregularities, and any known environmental location changes which may affect results. TLD results are found in Appendix E. There were no TLD values that exceeded the < Low Range or > High Range in 2023.

The environmental data on external radiation exposure for 2023 was essentially unchanged from 1999-2023, with an average exposure for all of 2023 indicator locations of 16.0 mR per standard quarter. The TLD location with the highest annual mean of 22.5 mR per standard quarter was location 37, which is located 5.00 miles WSW of the plant. Control TLD location 1 had an annual mean of 18.1 mR per std. quarter.

A TLD Intercomparison Program is conducted as part of the quality assurance program. Results of this program are included in Section 4.7.

Figure 3.9



There is no reporting level for Direct Radiation (TLD)

Table 3.9 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/Std. Qtr.)	Outer Ring Average (mR/Std. Qtr.)	Control Average (mR/Std. Qtr.)
1999	1.35E+1	1.57E+1	1.37E+1
2000	1.30E+1	1.51E+1	1.32E+1
2001	1.34E+1	1.53E+1	1.36E+1
2002	1.27E+1	1.47E+1	1.35E+1
2003	1.26E+1	1.44E+1	1.36E+1
2004	1.28E+1	1.43E+1	1.30E+1
2005	1.32E+1	1.45E+1	1.27E+1
2006	1.35E+1	1.47E+1	1.28E+1
2007	1.35E+1	1.48E+1	1.27E+1
2008	1.35E+1	1.47E+1	1.27E+1
2009	1.36E+1	1.47E+1	1.25E+1
2010	1.31E+1	1.43E+1	1.24E+1
2011	1.35E+1	1.46E+1	1.27E+1
2012	1.30E+1	1.42E+1	1.21E+1
2013	1.32E+1	1.44E+1	1.21E+1
2014 ⁽¹⁾	1.59E+1	1.74E+1	1.40E+1
2015	1.57E+1	1.70E+1	1.39E+1
2016	1.63E+1	1.80E+1	1.57E+1
2017	1.60E+1	1.69E+1	1.58E+1
2018	1.65E+1	1.78E+1	1.87E+1
2019	1.60E+1	1.76E+1	1.80E+1
2020	1.59E+1	1.75E+1	1.93E+1
2021	1.59E+1	1.72E+1	1.85E+1
2022	1.53E+1	1.71E+1	1.84E+1
2023	1.54E+1	1.68E+1	1.81E+1

- (1) As of first quarter 2014, the environmental TLDs utilized for the HBRSEP REMP were Harshaw TLDs, replacing Panasonic TLDs which were utilized prior to 2014 (NCR # 01982479).

3.10 LAND USE CENSUS

The 2023 HBRSEP Annual Land Use Census was conducted during the growing season on 6/26-6/27/2023 to meet the requirements of the HBRSEP ODCM 4.4.1. An Annual Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the plant and in each of the 16 meteorological sectors, the nearest residence, the nearest garden greater than 500 square feet or 50 square meters, producing broadleaf vegetables (fresh leafy vegetables), the nearest Milk-giving Animal (cow, goat, etc.), and the nearest meat animal (beef, hogs, etc.) was only identified at the nearest garden or closer in each sector. Poultry and egg laying animals were not classified as meat animals for the 2023 census.

Table 3.10 summarizes the HBRSEP 2022 census results. A map indicating identified locations is shown in Figure 3.10. The nearest residence is located in the SSE sector at 0.33 miles, and there were no milk locations identified during the performance of the land use census. No program changes were required based on the results of the census.

Table 3.10**HBRSEP Land Use Census Comparison (2022 – 2023)****Nearest Pathway (Miles)**

SECTOR	RESIDENCE		GARDEN		MEAT ANIMAL ⁽¹⁾		MILK ANIMAL	
	2022	2023	2022	2023	2022	2023	2022	2023
North	2.51	2.51	4.48	3.82*	---	---	----	----
North-Northeast	1.53	1.53	2.13	2.13	---	---	----	----
Northeast	1.11	1.11	2.57	2.57	2.57	2.57	----	----
East-Northeast	0.85	0.85	0.96	0.96	---	---	----	----
East	0.90	0.90	2.94	2.09*	---	---	----	----
East-Southeast	0.62	0.62	1.28	1.28	---	---	----	----
Southeast	0.38	0.38	3.63	3.63	1.96	---*	----	----
South-Southeast	0.33	0.33	2.69	2.69	---	---	----	----
South	0.44	0.44	2.26	2.26	---	---	----	----
South-Southwest	0.43	0.43	4.11	4.11	---	---	----	----
Southwest	0.44	0.44	2.02	2.02	---	---	----	----
West-Southwest	0.44	0.44	0.88	0.88	---	---	----	----
West	0.56	0.56	0.70	0.70	---	---	----	----
West-Northwest	0.57	0.57	4.54	4.54	---	---	----	----
Northwest	1.56	1.56	1.60	1.60	---	---	----	----
North-Northwest	2.00	2.00	2.85	2.85	---	---	----	----

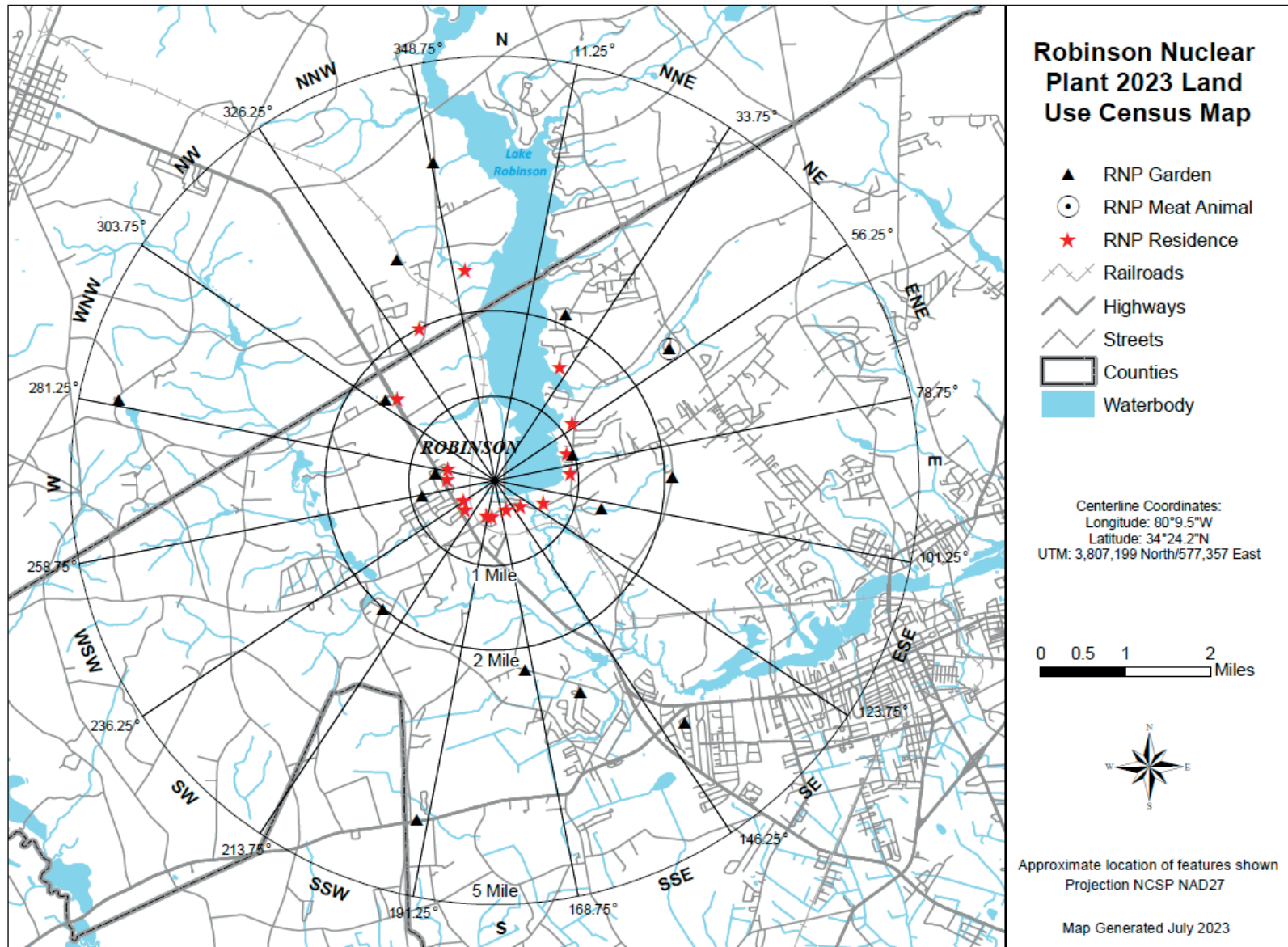
NOTE: Sector and distance determined by Global Positioning System.

(1) Meat animal was only identified at the nearest garden or closer in each sector.

* Represents a change from the previous year.

“----” indicates no occurrences within the 5 mile radius

Figure 3.10



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

HBRSEP Chemistry and the Environmental Services performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. This includes tritium analyses in surface water samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2023 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2023. EZA results were evaluated against the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in vegetation, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, gross beta in water, gross beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2023 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria.

4.6 SPLIT COMPARISON PROGRAM

HBRSEP routinely participates in an environmental sample intercomparison program. Program elements include sampling frequency and analysis for surface water, fish, broadleaf vegetation, and shoreline sediment samples that have been collected. Samples are routinely split with a vendor laboratory for intercomparison.

4.7 TLD INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly using the NIST-traceable Hopewell and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria. A summary of the 2023 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2023 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in two of the four quarters of 2023. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84525 (IP 84525) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. Table 4.0-A lists the performance for specific samples. Fifty nuclide results were reported to EZA of which forty-eight (96%) met the acceptance criteria based.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E13816A	Cs-137	2	pCi	157	162	0.97	Agreement
I-131 in Charcoal Cartridge	E13814	I-131	2	pCi	66.0	66.7	0.99	Agreement
Gamma in Soil	E13815	Ce-141	2	pCi/g	0.188	0.192	0.98	Agreement
		Co-58	2	pCi/g	0.194	0.220	0.88	Agreement
		Co-60	2	pCi/g	0.550	0.586	0.94	Agreement
		Cr-51	2	pCi/g	0.364	0.467	0.78	Non-Agreement ⁽¹⁾
		Cs-134	2	pCi/g	0.283	0.292	0.97	Agreement
		Cs-137	2	pCi/g	0.386	0.441	0.88	Agreement
		Fe-59	2	pCi/g	0.252	0.275	0.92	Agreement
		Mn-54	2	pCi/g	0.258	0.259	0.99	Agreement
		Zn-65	2	pCi/g	0.386	0.396	0.98	Agreement
Gamma in Simulated Vegetation	E13822	Ce-141	3	pCi/g	0.213	0.196	1.09	Agreement
		Co-58	3	pCi/g	0.119	0.124	0.96	Agreement
		Co-60	3	pCi/g	0.404	0.421	0.96	Agreement
		Cr-51	3	pCi/g	0.369	0.386	0.96	Agreement
		Cs-134	3	pCi/g	0.198	0.215	0.92	Agreement
		Cs-137	3	pCi/g	0.261	0.267	0.98	Agreement
		Fe-59	3	pCi/g	0.177	0.149	1.19	Agreement
		Mn-54	3	pCi/g	0.274	0.276	0.99	Agreement
		Zn-65	3	pCi/g	0.409	0.384	1.07	Agreement

(1) NCR# 02481264

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E13820	Ce-141	3	pCi	123	113	1.09	Agreement
		Co-58	3	pCi	73.4	71.8	1.02	Agreement
		Co-60	3	pCi	249	243	1.02	Agreement
		Cr-51	3	pCi	215	223	0.96	Agreement
		Cs-134	3	pCi	118	124	0.95	Agreement
		Cs-137	3	pCi	157	154	1.02	Agreement
		Fe-59	3	pCi	98.0	85.9	1.14	Agreement
		Mn-54	3	pCi	176	160	1.10	Agreement
		Zn-65	3	pCi	243	222	1.10	Agreement
Gamma in Water	E13821	Ce-141	3	pCi/L	123	111	1.11	Agreement
		Co-58	3	pCi/L	76.6	70.3	1.09	Agreement
		Co-60	3	pCi/L	247	238	1.04	Agreement
		Cr-51	3	pCi/L	232	219	1.06	Agreement
		Cs-134	3	pCi/L	117	122	0.96	Agreement
		Cs-137	3	pCi/L	156	151	1.03	Agreement
		Fe-59	3	pCi/L	95.5	84.1	1.14	Agreement
		Mn-54	3	pCi/L	167	156	1.07	Agreement
		Zn-65	3	pCi/L	234	217	1.08	Agreement
Gamma in Soil	E13970	Ce-141	3	pCi/g	0.194	0.184	1.06	Agreement
		Co-58	3	pCi/g	0.090	0.116	0.77	Non-Agreement ⁽²⁾
		Co-60	3	pCi/g	0.386	0.394	0.98	Agreement
		Cr-51	3	pCi/g	0.332	0.362	0.92	Agreement
		Cs-134	3	pCi/g	0.202	0.202	1.00	Agreement
		Cs-137	3	pCi/g	0.265	0.315	0.84	Agreement
		Fe-59	3	pCi/g	0.137	0.139	0.98	Agreement
		Mn-54	3	pCi/g	0.238	0.259	0.92	Agreement
		Zn-65	3	pCi/g	0.353	0.359	0.98	Agreement
Milk LLI-131	E13817	I-131	2	pCi/L	84.1	80.6	1.04	Agreement
Gross Beta in Water	E13819	Cs-137	2	pCi/L	256	273	0.94	Agreement
Tritium in Water	E13823	H-3	3	pCi/L	12700	12900	0.99	Agreement ⁽³⁾

(2) NCR# 02488942

(3) NCR # 02490656

TABLE 4.0-B

2023 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure. The TLD results were evaluated against Radiation Dosimetry and Records Procedure RD/0/B/2000/09, Harshaw TLD Dose Algorithm Verification. Forty TLD results were evaluated of which forty (100%) met the acceptance criteria.

1st Quarter 2023						2nd Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
100284	55.01	56.87	-3.27	<+/-20%	Pass	101382	18.27	18.84	-3.03	<+/-20%	Pass
100203	51.78	56.87	-8.95	<+/-20%	Pass	100847	17.54	18.84	-6.90	<+/-20%	Pass
100582	55.35	56.87	-2.67	<+/-20%	Pass	100842	16.93	18.84	-10.14	<+/-20%	Pass
101110	53.53	56.87	-5.87	<+/-20%	Pass	101331	17.70	18.84	-6.05	<+/-20%	Pass
101035	54.07	56.87	-4.92	<+/-20%	Pass	100512	17.13	18.84	-9.08	<+/-20%	Pass
101020	53.40	56.87	-6.10	<+/-20%	Pass	101019	17.76	18.84	-5.73	<+/-20%	Pass
100581	54.90	56.87	-3.46	<+/-20%	Pass	100734	17.52	18.84	-7.01	<+/-20%	Pass
100891	57.23	56.87	0.63	<+/-20%	Pass	100846	17.56	18.84	-6.79	<+/-20%	Pass
100050	54.77	56.87	-3.69	<+/-20%	Pass	100899	17.40	18.84	-7.64	<+/-20%	Pass
100181	55.54	56.87	-2.34	<+/-20%	Pass	100855	17.01	18.84	-9.71	<+/-20%	Pass
Average Bias (B)			-4.07			Average Bias (B)			-7.21		
Standard Deviation (S)			2.59			Standard Deviation (S)			2.10		
Measure Performance B +S			6.65	<20%	Pass	Measure Performance B +S			9.31	<20%	Pass
3rd Quarter 2023						4th Quarter 2023					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102167	67.04	65.92	1.70	<+/-20%	Pass	102893	42.19	42.08	0.26	<+/-20%	Pass
103257	68.84	65.92	4.43	<+/-20%	Pass	102005	42.81	42.08	1.73	<+/-20%	Pass
102208	64.93	65.92	-1.50	<+/-20%	Pass	102345	42.43	42.08	0.83	<+/-20%	Pass
102228	66.41	65.92	0.74	<+/-20%	Pass	103410	43.78	42.08	4.04	<+/-20%	Pass
102937	69.11	65.92	4.84	<+/-20%	Pass	102457	42.54	42.08	1.09	<+/-20%	Pass
103254	70.58	65.92	7.07	<+/-20%	Pass	102207	41.65	42.08	-1.02	<+/-20%	Pass
101100	66.65	65.92	1.11	<+/-20%	Pass	103254	44.90	42.08	6.70	<+/-20%	Pass
102493	65.97	65.92	0.08	<+/-20%	Pass	102493	42.31	42.08	0.55	<+/-20%	Pass
102947	70.81	65.92	7.42	<+/-20%	Pass	102492	42.72	42.08	1.52	<+/-20%	Pass
102345	65.92	65.92	0.00	<+/-20%	Pass	101100	42.91	42.08	1.97	<+/-20%	Pass
Average Bias (B)			2.59			Average Bias (B)			1.77		
Standard Deviation (S)			3.13			Standard Deviation (S)			2.17		
Measure Performance B +S			5.71	<20%	Pass	Measure Performance B +S			3.94	<20%	Pass

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of environmental media at the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP) is required to ensure compliance with the HBRSEP Off-Site Dose Calculation Manual (ODCM). Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved.

Environmental sampling was performed by HBRSEP Station Sciences and Environmental Services. Environmental analyses were performed by EnRad Laboratories and Dosimetry and Records.

This appendix provides a description of the specific analyses performed on samples collected in the field. Changes to the sampling procedures and analyses procedures are also discussed in the section. All analytical procedures listed in this section may not apply to the REMP.

I. CHANGE OF SAMPLING PROCEDURES

The following changes were made in H. B. Robinson Steam Electric Plant Procedure EMP-001, Environmental Program, Revision 72 to support changes in ODCM Revision 38, Effective Date March 30, 2023 (DRR# 2449739).

Air Particulate/Radioiodine locations 2 (Information Center 0.2 miles S), 4 (Spillway 0.4 miles ESE), and 7 (CP&L facility on Railroad Ave., Hartsville 6.4 miles ESE) were removed from the REMP on April 4, 2023 (PRR #02448732).

Broadleaf Vegetation Locations 51 (SSW Close to Site Boundary), 62 (SE Close to Site Boundary), 67 (S Close to Site Boundary), and 83 (1.7 miles NNE, near Shady Rest Club) were removed from the REMP on March 30, 2023 (PRR #02448732). Broadleaf Vegetation Location 86 (NNE Close to Site Boundary) was added to the REMP on March 30, 2023 (PRR# 0244832).

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Mirion analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) and then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-determined amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried and mixed thoroughly, before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or a Perkin-Elmer 3110TR liquid scintillation system. Tritium samples are distilled, and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis of air filters is performed by analyzing filters on Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

Gross beta analysis of liquid samples is performed by concentrating a designated aliquot of sample and analyzing by Perkin-Elmer 4910TR liquid scintillation system. Samples are batch processed with a laboratory fortified blank and a blank to verify instrument performance and to ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

There were no changes to the analysis procedures during 2023.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2023

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 (HBRSEP)
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

H. B. Robinson Steam Electric Plant, Unit No. 2
Darlington County, South Carolina

Docket Numbers: 50-261
Calendar Year: 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 299 ⁽⁴⁾	See Table 2.2-C	2.01E-02 (247/247) 6.21E-03 – 4.08E-02	5 (0.90 mi ENE)	2.12E-02 (52/52) 1.11E-02 – 4.08E-02	1 (24.4 mi ESE) 2.27E-02 (52/52) 9.67E-03 – 4.22E-02	0
	Gamma 23 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 299 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Surface Water (pCi/l)	Gamma 24	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 24	See Table 2.2-C	1.43E+03 (12/12) 4.37E+02 – 3.01E+03	40 (0.60 mi ESE)	1.43E+03 (12/12) 4.37E+02 – 3.01E+03	All less than LLD	0
Ground Water (pCi/l)	Gamma 4	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
	Tritium 4	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
Food Products (pCi/l)	Gamma 1	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 (HBRSEP)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

H. B. Robinson Steam Electric Plant, Unit No. 2
Darlington County, South Carolina

Docket Numbers: 50-261
Calendar Year: 2023

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Broadleaf Vegetation (pCi/kg, wet)	Gamma 21	See Table 2.2-C	-----	-----	-----	-----	0
	Cs-137	See Table 2.2-C	1.21E+02 (5/14) 6.65E+01 – 1.84E+02	86 (0.0 mi NNE)	1.21E+02 (5/7) 6.65E+01 – 1.84E+02	52 (10 mi W) 9.74E+01 (5/7) 3.36E+01 – 1.93E+02	
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	-----	-----	-----	0
	Cs-137	See Table 2.2-C	-----	-----	-----	47 4.84E+01 (1/4) 4.84E+01 – 4.84E+01	
Sediments--Shoreline (pCi/kg, dry)	Gamma 2	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
TLD (mR per quarter) ⁽⁵⁾	TLD Readout 171 ⁽⁴⁾	-----	1.60E+01 (167/167) 1.03E+01 – 2.51E+01	37 (5.00 mi WSW)	2.25E+01 (4/4) 1.94E+01 – 2.51E+01	1 (24.4 mi ESE) 1.81E+01 (4/4) 1.57E+01 – 1.93E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

H. B. ROBINSON NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The air samplers operated for a total of 99.98% availability in 2023.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
5	5/23 – 5/30/2023	PI	0.57 hours downtime due to unknown power interrupt.	NCR # 02475035
5	8/8 – 8/15/2023	PI	4.66 hours downtime due to storms.	NCR # 02482864
5	8/22 – 8/29/2023	PI	1.52 hours downtime due to unknown power interrupt.	NCR # 02485419
6	8/29 – 9/5/2023	OT	Air flow was low at the time of collection. The air sampler was replaced.	NCR # 02485830

Surface Water

REMP monthly surface water (SW) samples that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” The sample is counted and the data reported; whereas, a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Robinson REMP water samplers operated for a total of 100% availability in 2023.

There were no surface water deviations in 2023.

C.2 UNAVAILABLE ANALYSES

Direct Gamma Radiation (TLD)

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
13	1/12-4/12/2023	VN	The Alpha TLD 13 was found on the ground and Bravo TLD 13 was missing due to vandalism. Since the Alpha TLD 13 was not in its designated location at the time of collection, it is considered unavailable.	NCR # 02468652

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

H. B. ROBINSON STEAM ELECTRIC PLANT ANALYTICAL DEVIATIONS

DEVIATION & UNAVAILABLE REASON CODES			
AD	Analytical Deviation	PM	Preventive Maintenance
BF	Blown fuse	PO	Power Outage
CN	Construction	PS	Pump out of service / Undergoing repair
FZ	Sample Frozen	SL	Sample Loss/Lost due to Lab Accident
IV	Insufficient Volume	SM	Motor / Rotor Seized
IW	Inclement Weather	SU	Seasonally Unavailable
LC	Line Clog to Sampler	TF	Torn Filter
OT	Other	VN	Vandalism
PI	Power Interrupt		

D.1 ANALYTICAL DEVIATIONS

H. B. Robinson Steam Electric Plant environmental Alpha (A) and Bravo (B) TLDs are co-located TLDs placed next to each other to comply with ANSI/HPS N13.37-2014 Section 7.1 Paragraph 7. The TLD collection indicated incurred tampering/vandalism with one of the two co-located TLDs. One TLD for each collection was available and did not appear to have experienced any tampering/vandalism during the quarter. The remaining Bravo (B) TLD was collected and analyzed, but did not get averaged with the unusable Alpha (A) TLD which is normally included in the established process for the H. B. Robinson Steam Electric Plant.

Direct Gamma Radiation (TLD)

Scheduled Collection		Description &		Corrective
Location	Dates	Code	Action to Prevent Recurrence	Action
27	10/10/2023 – 1/11/2024	OT	The Alpha TLD 27 was missing at the time of collection, Bravo TLD 27 was collected and analyzed.	NCR # 02501221
28	10/10/2023 – 1/11/2024	OT	The Alpha TLD 28 was missing at the time of collection, Bravo TLD 28 was collected and analyzed.	NCR # 02501221

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2023

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2023

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID:	582618	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	2.97E-03	2.89E-03
Sample ID:	582926	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	2.91E-03	2.70E-03
Sample ID:	583065	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	3.00E-03	3.58E-03
Sample ID:	583470	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.62E-03	2.77E-03
Sample ID:	584196	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	2.65E-03	2.84E-03
Sample ID:	584792	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.96E-03	3.34E-03
Sample ID:	585283	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.69E-03	2.67E-03
Sample ID:	585537	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.81E-03	3.16E-03
Sample ID:	585788	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.62E-03	2.67E-03
Sample ID:	586042	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.68E-03	3.06E-03
Sample ID:	586641	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.86E-03	2.76E-03
Sample ID:	586909	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	3.04E-03	3.74E-03
Sample ID:	587166	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.43E-03	2.54E-03
Sample ID:	587517	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.43E-03	0.00E+00	1.43E-03
				Cs-137	<1.02E-03	0.00E+00	1.02E-03
				Be-7	1.64E-01	3.82E-02	3.35E-02
				K-40	1.70E-02	1.35E-02	1.81E-02
Sample ID:	587391	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.16E-03	3.40E-03
Sample ID:	587745	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.63E-03	2.46E-03
Sample ID:	588279	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.40E-03	3.47E-03
Sample ID:	588572	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	3.04E-03	3.67E-03
Sample ID:	589497	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.78E-03	3.07E-03
Sample ID:	589743	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	3.07E-03	3.21E-03
Sample ID:	589989	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.57E-03	2.65E-03
Sample ID:	590334	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.67E-03	2.09E-03	2.56E-03
Sample ID:	590461	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.36E-03	2.65E-03
Sample ID:	590621	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.24E-03	3.00E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID:	591182	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.79E-03	2.58E-03
Sample ID:	591418	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.32E-02	2.42E-03	2.81E-03
Sample ID:	591596	Sample Dates:	6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	2.68E-03	2.27E-03
Sample ID:	591907	Sample Dates:	4/4/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.64E-03	0.00E+00	1.64E-03
				Cs-137	<1.47E-03	0.00E+00	1.47E-03
				Be-7	1.37E-01	3.65E-02	3.60E-02
				K-40	4.05E-02	1.87E-02	1.80E-02
Sample ID:	591788	Sample Dates:	7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.64E-03	3.76E-03
Sample ID:	592168	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.28E-03	3.36E-03
Sample ID:	592388	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.38E-03	3.29E-03
Sample ID:	592964	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	3.03E-03	3.33E-03
Sample ID:	593155	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.14E-03	3.08E-03
Sample ID:	593527	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.89E-03	2.83E-03
Sample ID:	593789	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	3.22E-03	3.02E-03
Sample ID:	594245	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	3.29E-03	3.17E-03
Sample ID:	594772	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	2.81E-03	2.77E-03
Sample ID:	594970	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.01E-02	3.45E-03	2.95E-03
Sample ID:	595614	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.37E-03	3.08E-03
Sample ID:	596366	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.56E-02	3.74E-03	3.17E-03
Sample ID:	596765	Sample Dates:	9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.22E-02	2.71E-03	3.24E-03
Sample ID:	597364	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.51E-03	0.00E+00	1.51E-03
				Cs-137	<1.24E-03	0.00E+00	1.24E-03
				Be-7	1.22E-01	3.75E-02	4.23E-02
				K-40	2.95E-02	1.45E-02	4.70E-03
Sample ID:	597243	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.09E-03	3.11E-03
Sample ID:	597845	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.45E-02	3.42E-03	3.00E-03
Sample ID:	598084	Sample Dates:	10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.43E-03	2.50E-03
Sample ID:	598846	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	3.45E-03	3.18E-03
Sample ID:	599044	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.08E-02	3.54E-03	2.76E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID:	599440	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.22E-02	3.97E-03	3.03E-03
Sample ID:	600271	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.86E-02	3.41E-03	3.24E-03
Sample ID:	601086	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.17E-03	2.99E-03
Sample ID:	601261	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.03E-02	3.50E-03	3.21E-03
Sample ID:	601759	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.75E-02	3.43E-03	3.38E-03
Sample ID:	602232	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.62E-02	2.94E-03	2.63E-03
Sample ID:	602487	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.51E-03	2.42E-03
Sample ID:	602693	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.80E-02	3.70E-03	3.50E-03
Sample ID:	603017	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.99E-03	0.00E+00	1.99E-03
				Cs-137	<1.42E-03	0.00E+00	1.42E-03
				Be-7	1.18E-01	3.45E-02	3.58E-02
				K-40	3.35E-02	1.63E-02	1.49E-02

Sample Point 2 [INDICATOR - S @ 0.2 miles]

Sample ID:	582619	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	2.88E-03	2.91E-03
Sample ID:	582927	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	2.96E-03	2.68E-03
Sample ID:	583066	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.86E-03	3.60E-03
Sample ID:	583471	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.61E-03	2.79E-03
Sample ID:	584197	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.44E-03	2.83E-03
Sample ID:	584793	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.92E-03	3.35E-03
Sample ID:	585284	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.77E-03	2.66E-03
Sample ID:	585538	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.78E-03	3.17E-03
Sample ID:	585789	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.36E-03	2.58E-03
Sample ID:	586043	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.67E-03	3.11E-03
Sample ID:	586642	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.01E-03	3.03E-03
Sample ID:	586910	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	3.27E-03	3.72E-03
Sample ID:	587167	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.49E-03	2.53E-03
Sample ID:	587518	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.01E-03	0.00E+00	1.01E-03
				Cs-137	<1.69E-03	0.00E+00	1.69E-03
				Be-7	1.63E-01	3.58E-02	2.33E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - S @ 0.2 miles]

Sample ID:	587518	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<3.19E-02	0.00E+00	3.19E-02

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

Sample ID:	582620	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.67E-03	2.91E-03
Sample ID:	582928	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.65E-03	2.69E-03
Sample ID:	583067	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.12E-02	2.72E-03	3.59E-03
Sample ID:	583472	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.53E-03	2.78E-03
Sample ID:	584198	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.45E-03	2.83E-03
Sample ID:	584794	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.82E-03	3.35E-03
Sample ID:	585285	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.64E-03	2.66E-03
Sample ID:	585539	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.85E-03	3.17E-03
Sample ID:	585790	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.53E-03	2.57E-03
Sample ID:	586044	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.70E-03	3.12E-03
Sample ID:	586643	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	2.99E-03	3.03E-03
Sample ID:	586911	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	3.11E-03	3.72E-03
Sample ID:	587168	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.41E-03	2.53E-03
Sample ID:	587519	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.19E-03	0.00E+00	2.19E-03
				Cs-137	<1.37E-03	0.00E+00	1.37E-03
				Be-7	1.26E-01	3.83E-02	4.48E-02
				K-40	<4.21E-02	0.00E+00	4.21E-02

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID:	582621	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.73E-03	2.90E-03
Sample ID:	582929	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.79E-03	2.69E-03
Sample ID:	583068	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.82E-03	3.55E-03
Sample ID:	583473	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.66E-03	2.86E-03
Sample ID:	584199	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.38E-03	2.78E-03
Sample ID:	584795	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.84E-03	3.40E-03
Sample ID:	585286	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	2.66E-03	2.66E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID:	585540	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.79E-03	3.11E-03
Sample ID:	585791	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.56E-03	2.65E-03
Sample ID:	586045	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.71E-03	3.05E-03
Sample ID:	586644	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	2.87E-03	2.83E-03
Sample ID:	586912	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	3.20E-03	3.67E-03
Sample ID:	587169	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	2.47E-03	2.53E-03
Sample ID:	587520	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.19E-03	0.00E+00	2.19E-03
				Cs-137	<1.60E-03	0.00E+00	1.60E-03
				Be-7	1.34E-01	3.67E-02	3.83E-02
				K-40	<2.43E-02	0.00E+00	2.43E-02
Sample ID:	587394	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.11E-03	3.27E-03
Sample ID:	587748	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.64E-03	2.56E-03
Sample ID:	588282	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.45E-03	3.48E-03
Sample ID:	588573	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	3.12E-03	3.72E-03
Sample ID:	589498	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.58E-03	3.06E-03
Sample ID:	589744	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.08E-03	3.14E-03
Sample ID:	589990	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.51E-03	2.64E-03
Sample ID:	590335	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.28E-02	2.28E-03	2.59E-03
Sample ID:	590462	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.35E-03	2.66E-03
Sample ID:	590622	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.24E-03	3.06E-03
Sample ID:	591183	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.71E-03	2.53E-03
Sample ID:	591419	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.11E-02	2.28E-03	2.77E-03
Sample ID:	591597	Sample Dates:	6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.66E-03	2.43E-03
Sample ID:	591908	Sample Dates:	4/4/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.22E-03	0.00E+00	1.22E-03
				Cs-137	<1.53E-03	0.00E+00	1.53E-03
				Be-7	1.58E-01	3.95E-02	4.01E-02
				K-40	3.60E-02	1.56E-02	4.44E-03
Sample ID:	591789	Sample Dates:	7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.56E-03	3.75E-03
Sample ID:	592169	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.08E-03	3.11E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID:	592389	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.28E-03	3.30E-03
Sample ID:	592965	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	3.02E-03	3.34E-03
Sample ID:	593156	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.03E-03	3.17E-03
Sample ID:	593528	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.74E-03	2.87E-03
Sample ID:	593790	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.25E-03	3.06E-03
Sample ID:	594246	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.72E-02	3.36E-03	3.20E-03
Sample ID:	594773	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.66E-03	2.72E-03
Sample ID:	594971	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.17E-03	2.95E-03
Sample ID:	595615	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.73E-02	3.29E-03	3.06E-03
Sample ID:	596367	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.05E-02	3.47E-03	3.09E-03
Sample ID:	596766	Sample Dates:	9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.92E-03	3.36E-03
Sample ID:	597365	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.23E-03	0.00E+00	2.23E-03
				Cs-137	<1.72E-03	0.00E+00	1.72E-03
				Be-7	1.19E-01	3.66E-02	3.93E-02
				K-40	<3.51E-02	0.00E+00	3.51E-02
Sample ID:	597244	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.09E-03	3.21E-03
Sample ID:	597846	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.36E-02	3.35E-03	2.95E-03
Sample ID:	598085	Sample Dates:	10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.37E-03	2.49E-03
Sample ID:	598847	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	3.26E-03	3.19E-03
Sample ID:	599045	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.44E-02	3.30E-03	2.75E-03
Sample ID:	599441	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.08E-02	3.85E-03	2.94E-03
Sample ID:	600272	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.21E-03	3.34E-03
Sample ID:	601087	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.07E-03	2.94E-03
Sample ID:	601262	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.43E-03	3.27E-03
Sample ID:	601760	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.41E-03	3.36E-03
Sample ID:	602233	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	2.82E-03	2.65E-03
Sample ID:	602488	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.43E-03	2.42E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID:	602694	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.43E-03	3.50E-03
Sample ID:	603018	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.91E-03	0.00E+00	1.91E-03
				Cs-137	<1.33E-03	0.00E+00	1.33E-03
				Be-7	1.36E-01	3.57E-02	3.24E-02
				K-40	3.01E-02	1.88E-02	2.46E-02

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID:	582623	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.83E-03	2.91E-03
Sample ID:	582931	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.82E-03	2.69E-03
Sample ID:	583070	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.84E-03	3.59E-03
Sample ID:	583475	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.53E-03	2.79E-03
Sample ID:	584201	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.47E-03	2.83E-03
Sample ID:	584797	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.79E-03	3.35E-03
Sample ID:	585288	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.56E-03	2.66E-03
Sample ID:	585542	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.83E-03	3.17E-03
Sample ID:	585793	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.49E-03	2.58E-03
Sample ID:	586047	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.54E-03	3.12E-03
Sample ID:	586646	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	2.95E-03	2.95E-03
Sample ID:	586914	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	3.03E-03	3.72E-03
Sample ID:	587171	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.37E-03	2.53E-03
Sample ID:	587522	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.81E-03	0.00E+00	1.81E-03
				Cs-137	<1.50E-03	0.00E+00	1.50E-03
				Be-7	1.40E-01	3.36E-02	2.57E-02
				K-40	<2.86E-02	0.00E+00	2.86E-02
Sample ID:	587396	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.97E-03	3.25E-03
Sample ID:	587750	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.63E-03	2.58E-03
Sample ID:	588284	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	3.40E-03	3.50E-03
Sample ID:	588575	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.95E-03	3.62E-03
Sample ID:	589500	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.19E-02	2.44E-03	3.05E-03
Sample ID:	589746	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.04E-03	3.15E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID:	589992	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.43E-03	2.65E-03
Sample ID:	590337	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.07E-02	2.20E-03	2.63E-03
Sample ID:	590464	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.37E-03	2.65E-03
Sample ID:	590624	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.05E-03	2.99E-03
Sample ID:	591185	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.71E-03	2.61E-03
Sample ID:	591421	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.45E-03	2.15E-03	2.71E-03
Sample ID:	591599	Sample Dates:	6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.56E-03	2.39E-03
Sample ID:	591910	Sample Dates:	4/4/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.78E-03	0.00E+00	1.78E-03
				Cs-137	<1.47E-03	0.00E+00	1.47E-03
				Be-7	1.48E-01	3.54E-02	3.04E-02
				K-40	2.30E-02	1.71E-02	2.37E-02
Sample ID:	591791	Sample Dates:	7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.38E-03	3.73E-03
Sample ID:	592171	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.95E-03	3.16E-03
Sample ID:	592391	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.30E-03	3.31E-03
Sample ID:	592967	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.97E-03	3.31E-03
Sample ID:	593158	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.86E-03	3.18E-03
Sample ID:	593530	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.79E-03	2.87E-03
Sample ID:	593792	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	3.19E-03	2.98E-03
Sample ID:	594248	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.22E-03	3.20E-03
Sample ID:	594775	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	6.21E-03	1.97E-03	2.74E-03
Sample ID:	594973	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	3.34E-03	2.89E-03
Sample ID:	595617	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.34E-03	3.13E-03
Sample ID:	596369	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.33E-02	3.58E-03	3.08E-03
Sample ID:	596768	Sample Dates:	9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.80E-03	3.36E-03
Sample ID:	597367	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.05E-03	0.00E+00	2.05E-03
				Cs-137	<1.04E-03	0.00E+00	1.04E-03
				Be-7	1.29E-01	3.63E-02	3.70E-02
				K-40	2.96E-02	1.58E-02	1.55E-02
Sample ID:	597246	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.09E-03	3.16E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID:	597848	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.08E-02	3.25E-03	2.95E-03
Sample ID:	598087	Sample Dates:	10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.38E-03	2.52E-03
Sample ID:	598849	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.31E-03	3.15E-03
Sample ID:	599047	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.33E-02	3.27E-03	2.77E-03
Sample ID:	599443	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.80E-02	3.73E-03	2.94E-03
Sample ID:	600274	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.37E-03	3.32E-03
Sample ID:	601089	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.13E-03	3.00E-03
Sample ID:	601264	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.90E-02	3.43E-03	3.20E-03
Sample ID:	601762	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.50E-03	3.39E-03
Sample ID:	602235	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	2.82E-03	2.63E-03
Sample ID:	602490	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.61E-03	2.43E-03
Sample ID:	602696	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.49E-03	3.48E-03
Sample ID:	603020	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.48E-03	0.00E+00	1.48E-03
				Cs-137	<1.21E-03	0.00E+00	1.21E-03
				Be-7	1.25E-01	3.56E-02	3.57E-02
				K-40	2.88E-02	1.67E-02	1.92E-02

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

Sample ID:	582625	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.69E-03	2.89E-03
Sample ID:	582933	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.71E-03	2.70E-03
Sample ID:	583072	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.14E-02	2.67E-03	3.49E-03
Sample ID:	583477	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.52E-03	2.84E-03
Sample ID:	584203	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.39E-03	2.82E-03
Sample ID:	584799	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.85E-03	3.34E-03
Sample ID:	585290	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.80E-02	2.59E-03	2.67E-03
Sample ID:	585544	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	2.71E-03	3.17E-03
Sample ID:	585795	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.57E-03	2.63E-03
Sample ID:	586049	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.59E-03	3.06E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

Sample ID:	586648	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.71E-03	2.78E-03
Sample ID:	586916	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	3.09E-03	3.75E-03
Sample ID:	587173	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.43E-03	2.54E-03
Sample ID:	587524	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.08E-03	0.00E+00	2.08E-03
				Cs-137	<1.49E-03	0.00E+00	1.49E-03
				Be-7	1.50E-01	3.72E-02	3.24E-02
				K-40	<4.35E-02	0.00E+00	4.35E-02

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID:	582622	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.79E-03	2.89E-03
Sample ID:	582930	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	2.85E-03	2.69E-03
Sample ID:	583069	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.65E-03	3.58E-03
Sample ID:	583474	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.47E-03	2.79E-03
Sample ID:	584200	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.34E-02	2.42E-03	2.83E-03
Sample ID:	584796	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.32E-02	2.73E-03	3.35E-03
Sample ID:	585287	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.55E-03	2.66E-03
Sample ID:	585541	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.65E-03	3.17E-03
Sample ID:	585792	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.45E-03	2.58E-03
Sample ID:	586046	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.83E-03	3.11E-03
Sample ID:	586645	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.79E-03	2.87E-03
Sample ID:	586913	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	3.18E-03	3.73E-03
Sample ID:	587170	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.37E-03	2.48E-03
Sample ID:	587521	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.79E-03	0.00E+00	1.79E-03
				Cs-137	<1.78E-03	0.00E+00	1.78E-03
				Be-7	1.43E-01	3.59E-02	3.40E-02
				K-40	3.38E-02	1.53E-02	4.58E-03
Sample ID:	587395	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	3.05E-03	3.33E-03
Sample ID:	587749	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.56E-03	2.58E-03
Sample ID:	588283	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.44E-03	3.48E-03
Sample ID:	588574	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.93E-03	3.64E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID:	589499	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.65E-03	3.05E-03
Sample ID:	589745	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.04E-03	3.14E-03
Sample ID:	589991	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.52E-03	2.65E-03
Sample ID:	590336	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.31E-03	2.63E-03
Sample ID:	590463	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.33E-02	2.35E-03	2.65E-03
Sample ID:	590623	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.08E-03	2.99E-03
Sample ID:	591184	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	2.75E-03	2.58E-03
Sample ID:	591420	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.20E-02	2.32E-03	2.74E-03
Sample ID:	591598	Sample Dates:	6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.85E-02	2.83E-03	2.39E-03
Sample ID:	591909	Sample Dates:	4/4/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.25E-03	0.00E+00	1.25E-03
				Cs-137	<1.45E-03	0.00E+00	1.45E-03
				Be-7	1.51E-01	3.43E-02	2.44E-02
				K-40	2.61E-02	1.70E-02	2.17E-02
Sample ID:	591790	Sample Dates:	7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.46E-03	3.72E-03
Sample ID:	592170	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.30E-03	3.16E-03
Sample ID:	592390	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.30E-03	3.31E-03
Sample ID:	592966	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.15E-03	3.33E-03
Sample ID:	593157	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.95E-03	3.16E-03
Sample ID:	593529	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.00E-03	2.86E-03
Sample ID:	593791	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.22E-03	2.99E-03
Sample ID:	594247	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.77E-02	3.39E-03	3.20E-03
Sample ID:	594774	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.71E-03	2.73E-03
Sample ID:	594972	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.23E-02	3.51E-03	2.90E-03
Sample ID:	595616	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.77E-02	3.35E-03	3.13E-03
Sample ID:	596368	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.22E-02	3.52E-03	3.07E-03
Sample ID:	596767	Sample Dates:	9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.92E-03	3.37E-03
Sample ID:	597366	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.48E-03	0.00E+00	2.48E-03
				Cs-137	<1.64E-03	0.00E+00	1.64E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID:	597366	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	1.56E-01	4.04E-02	3.75E-02
				K-40	3.13E-02	1.98E-02	2.60E-02
Sample ID:	597245	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.18E-03	3.24E-03
Sample ID:	597847	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.05E-03	2.81E-03
Sample ID:	598086	Sample Dates:	10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.44E-03	2.55E-03
Sample ID:	598848	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.38E-03	3.18E-03
Sample ID:	599046	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.17E-03	2.76E-03
Sample ID:	599442	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.60E-02	3.67E-03	2.97E-03
Sample ID:	600273	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.19E-03	3.30E-03
Sample ID:	601088	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.91E-03	3.00E-03
Sample ID:	601263	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.20E-03	3.20E-03
Sample ID:	601761	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.50E-02	3.33E-03	3.38E-03
Sample ID:	602234	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	2.69E-03	2.58E-03
Sample ID:	602489	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.32E-03	2.48E-03
Sample ID:	602695	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.53E-03	3.49E-03
Sample ID:	603019	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<3.58E-04	0.00E+00	3.58E-04
				Cs-137	<1.30E-03	0.00E+00	1.30E-03
				Be-7	1.07E-01	3.10E-02	2.90E-02
				K-40	<3.41E-02	0.00E+00	3.41E-02

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID:	582624	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	2.93E-03	2.91E-03
Sample ID:	582932	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.60E-02	2.94E-03	2.69E-03
Sample ID:	583071	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.81E-03	3.58E-03
Sample ID:	583476	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.52E-03	2.78E-03
Sample ID:	584202	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.49E-03	2.83E-03
Sample ID:	584798	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.83E-03	3.35E-03
Sample ID:	585289	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.66E-03	2.66E-03
Sample ID:	585543	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.82E-03	3.17E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID:	585794	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.53E-03	2.58E-03
Sample ID:	586048	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.58E-03	3.11E-03
Sample ID:	586647	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.91E-03	2.87E-03
Sample ID:	586915	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	3.10E-03	3.72E-03
Sample ID:	587172	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.46E-03	2.53E-03
Sample ID:	587523	Sample Dates:	1/3/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.34E-03	0.00E+00	1.34E-03
				Cs-137	<1.56E-03	0.00E+00	1.56E-03
				Be-7	1.57E-01	3.89E-02	3.58E-02
				K-40	<2.74E-02	0.00E+00	2.74E-02
Sample ID:	587397	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.01E-03	3.25E-03
Sample ID:	587751	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	2.73E-03	2.58E-03
Sample ID:	588285	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	3.39E-03	3.47E-03
Sample ID:	588576	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	3.02E-03	3.64E-03
Sample ID:	589501	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.52E-03	3.06E-03
Sample ID:	589747	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.93E-03	3.15E-03
Sample ID:	589993	Sample Dates:	5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.44E-03	2.65E-03
Sample ID:	590338	Sample Dates:	5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.18E-03	2.63E-03
Sample ID:	590465	Sample Dates:	5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.21E-03	2.65E-03
Sample ID:	590625	Sample Dates:	6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.11E-03	2.99E-03
Sample ID:	591186	Sample Dates:	6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.50E-03	2.61E-03
Sample ID:	591422	Sample Dates:	6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	2.19E-03	2.71E-03
Sample ID:	591600	Sample Dates:	6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	2.67E-03	2.39E-03
Sample ID:	591911	Sample Dates:	4/4/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.47E-03	0.00E+00	1.47E-03
				Cs-137	<1.69E-03	0.00E+00	1.69E-03
				Be-7	1.38E-01	3.32E-02	2.60E-02
				K-40	1.54E-02	1.16E-02	1.32E-02
Sample ID:	591792	Sample Dates:	7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.47E-03	3.72E-03
Sample ID:	592172	Sample Dates:	7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.01E-03	3.16E-03
Sample ID:	592392	Sample Dates:	7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.38E-02	3.28E-03	3.31E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID:	592968	Sample Dates:	7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.11E-03	3.33E-03
Sample ID:	593159	Sample Dates:	8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.89E-03	3.15E-03
Sample ID:	593531	Sample Dates:	8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.78E-03	2.87E-03
Sample ID:	593793	Sample Dates:	8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	2.96E-03	2.98E-03
Sample ID:	594249	Sample Dates:	8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	3.30E-03	3.20E-03
Sample ID:	594776	Sample Dates:	8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.54E-03	2.73E-03
Sample ID:	594974	Sample Dates:	9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	3.07E-03	2.90E-03
Sample ID:	595618	Sample Dates:	9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.99E-03	3.13E-03
Sample ID:	596370	Sample Dates:	9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.46E-03	3.08E-03
Sample ID:	596769	Sample Dates:	9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.79E-03	3.36E-03
Sample ID:	597368	Sample Dates:	7/5/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.51E-03	0.00E+00	1.51E-03
				Cs-137	<1.38E-03	0.00E+00	1.38E-03
				Be-7	1.17E-01	3.67E-02	4.17E-02
				K-40	3.59E-02	1.84E-02	1.97E-02
Sample ID:	597247	Sample Dates:	10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.92E-03	3.16E-03
Sample ID:	597849	Sample Dates:	10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	2.94E-03	2.95E-03
Sample ID:	598088	Sample Dates:	10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.59E-03	2.88E-03
Sample ID:	598850	Sample Dates:	10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.38E-03	3.15E-03
Sample ID:	599048	Sample Dates:	10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.19E-02	3.22E-03	2.77E-03
Sample ID:	599444	Sample Dates:	11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.08E-02	3.84E-03	2.94E-03
Sample ID:	600275	Sample Dates:	11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.66E-02	3.38E-03	3.32E-03
Sample ID:	601090	Sample Dates:	11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.12E-03	3.00E-03
Sample ID:	601265	Sample Dates:	11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.93E-02	3.44E-03	3.20E-03
Sample ID:	601763	Sample Dates:	12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.31E-03	3.38E-03
Sample ID:	602236	Sample Dates:	12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	2.79E-03	2.63E-03
Sample ID:	602491	Sample Dates:	12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.53E-03	2.43E-03
Sample ID:	602697	Sample Dates:	12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.45E-03	3.48E-03

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID:	603021	Sample Dates:	10/2/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.80E-03	0.00E+00	1.80E-03
				Cs-137	<1.21E-03	0.00E+00	1.21E-03
				Be-7	1.37E-01	3.91E-02	4.25E-02
				K-40	<3.40E-02	0.00E+00	3.40E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID:	582626	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<2.72E-02	0.00E+00	2.72E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01
				K-40	3.17E-01	2.23E-01	2.83E-01

Sample ID:	582934	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<1.85E-02	0.00E+00	1.85E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<1.69E-01	0.00E+00	1.69E-01
				K-40	<4.63E-01	0.00E+00	4.63E-01

Sample ID:	583073	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.93E-02	0.00E+00	1.93E-02
				Cs-134	<2.43E-02	0.00E+00	2.43E-02
				Cs-137	<3.08E-02	0.00E+00	3.08E-02
				Be-7	<1.81E-01	0.00E+00	1.81E-01
				K-40	<5.31E-01	0.00E+00	5.31E-01

Sample ID:	583478	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.51E-02	0.00E+00	3.51E-02
				Cs-134	<2.47E-02	0.00E+00	2.47E-02
				Cs-137	<2.37E-02	0.00E+00	2.37E-02
				Be-7	<2.22E-01	0.00E+00	2.22E-01
				K-40	3.66E-01	2.32E-01	2.92E-01

Sample ID:	584204	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.06E-02	0.00E+00	3.06E-02
				Cs-134	<1.87E-02	0.00E+00	1.87E-02
				Cs-137	<3.26E-02	0.00E+00	3.26E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	<3.88E-01	0.00E+00	3.88E-01

Sample ID:	584800	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.13E-02	0.00E+00	3.13E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	<6.40E-01	0.00E+00	6.40E-01

Sample ID:	585291	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<2.70E-02	0.00E+00	2.70E-02
				Cs-137	<2.62E-02	0.00E+00	2.62E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	6.20E-01	2.53E-01	6.72E-02

Sample ID:	585545	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.11E-02	0.00E+00	2.11E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.37E-01	0.00E+00	1.37E-01
				K-40	2.96E-01	2.05E-01	2.58E-01

Sample ID:	585796	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.74E-02	0.00E+00	3.74E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<3.33E-02	0.00E+00	3.33E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID: 585796	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	4.00E-01	3.01E-01	4.27E-01
Sample ID: 586050	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.58E-02	0.00E+00	3.58E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 586649	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 586917	Sample Dates: 3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
Sample ID: 587174	Sample Dates: 3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.82E-02	0.00E+00	4.82E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 587399	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 587753	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
Sample ID: 588287	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 588577	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
Sample ID: 589502	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.44E-01	0.00E+00	2.44E-01
Sample ID: 589748	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.93E-02	0.00E+00	3.93E-02
		Cs-134	<3.26E-02	0.00E+00	3.26E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID: 589748	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	7.33E-01	2.88E-01	7.35E-02
Sample ID: 589994	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.32E-02	0.00E+00	4.32E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<2.52E-01	0.00E+00	2.52E-01
Sample ID: 590339	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 590466	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
Sample ID: 590626	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.38E-02	0.00E+00	3.38E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
Sample ID: 591187	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
Sample ID: 591423	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.96E-02	0.00E+00	3.96E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
Sample ID: 591601	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.24E-02	0.00E+00	4.24E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
Sample ID: 591793	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.43E-02	0.00E+00	4.43E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<3.51E-02	0.00E+00	3.51E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
Sample ID: 592173	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
Sample ID: 592393	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID: 592393	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<2.29E-01	0.00E+00	2.29E-01
		K-40	6.94E-01	2.68E-01	6.72E-02
Sample ID: 592969	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 593160	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 593532	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 593794	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 594250	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 594777	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 594975	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.62E-02	0.00E+00	4.62E-02
		Cs-134	<3.40E-02	0.00E+00	3.40E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
Sample ID: 595619	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
Sample ID: 596371	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID: 596770	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<3.56E-02	0.00E+00	3.56E-02
		Be-7	<2.90E-01	0.00E+00	2.90E-01
		K-40	1.14E+00	4.63E-01	4.81E-01
Sample ID: 597248	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.65E-01	2.26E-01	1.90E-01
Sample ID: 597850	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	6.21E-01	2.53E-01	6.73E-02
Sample ID: 598089	Sample Dates: 10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.03E-02	0.00E+00	4.03E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	<6.77E-01	0.00E+00	6.77E-01
Sample ID: 598851	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<3.33E-02	0.00E+00	3.33E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	5.17E-01	3.05E-01	3.71E-01
Sample ID: 599049	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.37E-01	3.09E-01	4.40E-01
Sample ID: 599445	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<3.85E-02	0.00E+00	3.85E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	8.24E-01	3.41E-01	3.44E-01
Sample ID: 600276	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.02E-02	0.00E+00	5.02E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	<7.37E-01	0.00E+00	7.37E-01
Sample ID: 601091	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<2.71E-01	0.00E+00	2.71E-01
		K-40	<6.93E-01	0.00E+00	6.93E-01
Sample ID: 601266	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	3.91E-01	2.65E-01	3.60E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

Sample ID: 601764	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.34E-02	0.00E+00	4.34E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	<5.31E-01	0.00E+00	5.31E-01
Sample ID: 602237	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.98E-02	0.00E+00	4.98E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<2.28E-01	0.00E+00	2.28E-01
		K-40	7.36E-01	2.94E-01	7.67E-02
Sample ID: 602492	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.40E-02	0.00E+00	5.40E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	5.98E-01	2.49E-01	6.75E-02
Sample ID: 602698	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.09E-02	0.00E+00	4.09E-02
		Cs-134	<3.84E-02	0.00E+00	3.84E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.68E-01	0.00E+00	2.68E-01
		K-40	1.18E+00	4.08E-01	9.10E-02
Sample Point 2 [INDICATOR - S @ 0.2 miles]					
Sample ID: 582627	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	4.65E-01	2.34E-01	2.06E-01
Sample ID: 582935	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.07E-01	0.00E+00	5.07E-01
Sample ID: 583074	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.45E-02	0.00E+00	3.45E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
		K-40	<5.91E-01	0.00E+00	5.91E-01
Sample ID: 583479	Sample Dates: 1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<4.54E-01	0.00E+00	4.54E-01
Sample ID: 584205	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	3.31E-01	2.15E-01	2.56E-01
Sample ID: 584801	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - S @ 0.2 miles]

Sample ID:	584801	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<5.37E-01	0.00E+00	5.37E-01
Sample ID:	585292	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.02E-02	0.00E+00	3.02E-02
				Cs-134	<3.19E-02	0.00E+00	3.19E-02
				Cs-137	<2.32E-02	0.00E+00	2.32E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	6.97E-01	2.90E-01	2.50E-01
Sample ID:	585546	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.25E-02	0.00E+00	2.25E-02
				Cs-134	<3.34E-02	0.00E+00	3.34E-02
				Cs-137	<2.17E-02	0.00E+00	2.17E-02
				Be-7	<1.67E-01	0.00E+00	1.67E-01
				K-40	4.71E-01	2.58E-01	2.92E-01
Sample ID:	585797	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.62E-02	0.00E+00	2.62E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<1.94E-02	0.00E+00	1.94E-02
				Be-7	<1.88E-01	0.00E+00	1.88E-01
				K-40	6.17E-01	2.67E-01	2.25E-01
Sample ID:	586051	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<2.27E-02	0.00E+00	2.27E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	<5.23E-01	0.00E+00	5.23E-01
Sample ID:	586650	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.19E-02	0.00E+00	2.19E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	6.52E-01	2.66E-01	7.06E-02
Sample ID:	586918	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.34E-02	0.00E+00	2.34E-02
				Cs-134	<2.11E-02	0.00E+00	2.11E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<2.18E-01	0.00E+00	2.18E-01
				K-40	<4.12E-01	0.00E+00	4.12E-01
Sample ID:	587175	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.48E-02	0.00E+00	2.48E-02
				Cs-134	<1.89E-02	0.00E+00	1.89E-02
				Cs-137	<1.63E-02	0.00E+00	1.63E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	2.49E-01	1.89E-01	2.57E-01

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

Sample ID:	582628	Sample Dates:	1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.98E-02	0.00E+00	3.98E-02
				Cs-134	<3.20E-02	0.00E+00	3.20E-02
				Cs-137	<2.59E-02	0.00E+00	2.59E-02
				Be-7	<2.24E-01	0.00E+00	2.24E-01
				K-40	7.19E-01	2.82E-01	7.21E-02
Sample ID:	582936	Sample Dates:	1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.95E-02	0.00E+00	2.95E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	3.49E-01	2.23E-01	2.74E-01
Sample ID:	583075	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.23E-02	0.00E+00	2.23E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

Sample ID: 583075	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<2.42E-01	0.00E+00	2.42E-01
		K-40	4.16E-01	2.51E-01	2.58E-01
Sample ID: 583480	Sample Dates: 1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
Sample ID: 584206	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 584802	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
Sample ID: 585293	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
Sample ID: 585547	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 585798	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 586052	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<3.50E-02	0.00E+00	3.50E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 586651	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.66E-02	0.00E+00	4.66E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<3.52E-02	0.00E+00	3.52E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
Sample ID: 586919	Sample Dates: 3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.57E-01	2.72E-01	3.69E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

Sample ID: 587176	Sample Dates: 3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	6.10E-01	2.61E-01	2.46E-01

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID: 582629	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	<6.11E-01	0.00E+00	6.11E-01

Sample ID: 582937	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.13E-02	0.00E+00	4.13E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	<7.32E-01	0.00E+00	7.32E-01

Sample ID: 583076	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.95E-02	0.00E+00	3.95E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<3.35E-02	0.00E+00	3.35E-02
		Be-7	<2.56E-01	0.00E+00	2.56E-01
		K-40	5.39E-01	3.26E-01	4.04E-01

Sample ID: 583481	Sample Dates: 1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	<4.78E-01	0.00E+00	4.78E-01

Sample ID: 584207	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	4.02E-01	2.18E-01	2.20E-01

Sample ID: 584803	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	<4.99E-01	0.00E+00	4.99E-01

Sample ID: 585294	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	<6.00E-01	0.00E+00	6.00E-01

Sample ID: 585548	Sample Dates: 2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	5.04E-01	2.29E-01	6.83E-02

Sample ID: 585799	Sample Dates: 2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID:	585799	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<5.41E-01	0.00E+00	5.41E-01
Sample ID:	586053	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.51E-02	0.00E+00	3.51E-02
				Cs-134	<2.13E-02	0.00E+00	2.13E-02
				Cs-137	<2.82E-02	0.00E+00	2.82E-02
				Be-7	<2.26E-01	0.00E+00	2.26E-01
				K-40	4.05E-01	2.33E-01	2.42E-01
Sample ID:	586652	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.96E-02	0.00E+00	2.96E-02
				Cs-134	<1.89E-02	0.00E+00	1.89E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<1.82E-01	0.00E+00	1.82E-01
				K-40	5.58E-01	2.79E-01	2.90E-01
Sample ID:	586920	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.13E-02	0.00E+00	3.13E-02
				Cs-134	<3.67E-02	0.00E+00	3.67E-02
				Cs-137	<3.01E-02	0.00E+00	3.01E-02
				Be-7	<1.79E-01	0.00E+00	1.79E-01
				K-40	5.98E-01	2.65E-01	7.72E-02
Sample ID:	587177	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.49E-02	0.00E+00	2.49E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<1.31E-02	0.00E+00	1.31E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	4.51E-01	2.12E-01	1.86E-01
Sample ID:	587402	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.65E-02	0.00E+00	2.65E-02
				Cs-134	<2.52E-02	0.00E+00	2.52E-02
				Cs-137	<3.00E-02	0.00E+00	3.00E-02
				Be-7	<2.22E-01	0.00E+00	2.22E-01
				K-40	8.42E-01	3.24E-01	2.80E-01
Sample ID:	587756	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.91E-02	0.00E+00	2.91E-02
				Cs-137	<2.35E-02	0.00E+00	2.35E-02
				Be-7	<1.66E-01	0.00E+00	1.66E-01
				K-40	5.68E-01	3.34E-01	4.45E-01
Sample ID:	588290	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.85E-02	0.00E+00	2.85E-02
				Cs-134	<2.29E-02	0.00E+00	2.29E-02
				Cs-137	<2.32E-02	0.00E+00	2.32E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	5.26E-01	2.81E-01	3.30E-01
Sample ID:	588578	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.82E-02	0.00E+00	2.82E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	<5.30E-01	0.00E+00	5.30E-01
Sample ID:	589503	Sample Dates:	5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<2.49E-02	0.00E+00	2.49E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<2.13E-01	0.00E+00	2.13E-01
				K-40	<4.63E-01	0.00E+00	4.63E-01
Sample ID:	589749	Sample Dates:	5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.47E-02	0.00E+00	2.47E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID: 589749	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<5.33E-01	0.00E+00	5.33E-01
Sample ID: 589995	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.89E-02	0.00E+00	3.89E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<3.23E-02	0.00E+00	3.23E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
Sample ID: 590340	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.95E-02	0.00E+00	3.95E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
Sample ID: 590467	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
Sample ID: 590627	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 591188	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 591424	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
Sample ID: 591602	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
Sample ID: 591794	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
Sample ID: 592174	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 592394	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID: 592394	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	6.67E-01	3.09E-01	3.39E-01
Sample ID: 592970	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 593161	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 593533	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 593795	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<4.34E-03	0.00E+00	4.34E-03
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 594251	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
Sample ID: 594778	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 594976	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
Sample ID: 595620	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 596372	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<3.41E-02	0.00E+00	3.41E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 596771	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID: 596771	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	6.80E-01	3.05E-01	2.55E-01
Sample ID: 597249	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 597851	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 598090	Sample Dates: 10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 598852	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
Sample ID: 599050	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 599446	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.18E-02	0.00E+00	4.18E-02
		Cs-134	<3.77E-02	0.00E+00	3.77E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.54E-01	0.00E+00	2.54E-01
Sample ID: 600277	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 601092	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
Sample ID: 601267	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	2.86E-01	2.13E-01	2.76E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

Sample ID: 601765	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.84E-02	0.00E+00	3.84E-02
		Cs-134	<3.20E-02	0.00E+00	3.20E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	5.53E-01	2.63E-01	2.51E-01
Sample ID: 602238	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<2.76E-01	0.00E+00	2.76E-01
		K-40	8.91E-01	4.02E-01	4.63E-01
Sample ID: 602493	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.43E-02	0.00E+00	5.43E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	<6.35E-01	0.00E+00	6.35E-01
Sample ID: 602699	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.47E-02	0.00E+00	4.47E-02
		Cs-134	<4.64E-02	0.00E+00	4.64E-02
		Cs-137	<3.65E-02	0.00E+00	3.65E-02
		Be-7	<2.49E-01	0.00E+00	2.49E-01
		K-40	5.38E-01	3.29E-01	3.95E-01

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID: 582631	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	5.53E-01	2.35E-01	6.51E-02
Sample ID: 582939	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	3.82E-01	2.64E-01	3.59E-01
Sample ID: 583078	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	5.25E-01	2.79E-01	2.84E-01
Sample ID: 583483	Sample Dates: 1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	2.82E-01	1.58E-01	5.87E-02
Sample ID: 584209	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<4.60E-01	0.00E+00	4.60E-01
Sample ID: 584805	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID:	584805	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.52E-01	0.00E+00	4.52E-01
Sample ID:	585296	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.76E-02	0.00E+00	2.76E-02
				Cs-134	<2.17E-02	0.00E+00	2.17E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.46E-01	0.00E+00	1.46E-01
				K-40	<4.57E-01	0.00E+00	4.57E-01
Sample ID:	585550	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.98E-02	0.00E+00	2.98E-02
				Cs-134	<2.03E-02	0.00E+00	2.03E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	3.42E-01	2.28E-01	2.87E-01
Sample ID:	585801	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.97E-02	0.00E+00	2.97E-02
				Cs-134	<5.14E-03	0.00E+00	5.14E-03
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	<5.54E-01	0.00E+00	5.54E-01
Sample ID:	586055	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.43E-02	0.00E+00	3.43E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<1.54E-02	0.00E+00	1.54E-02
				Be-7	<1.76E-01	0.00E+00	1.76E-01
				K-40	<5.73E-01	0.00E+00	5.73E-01
Sample ID:	586654	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<2.51E-02	0.00E+00	2.51E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	3.23E-01	1.81E-01	6.74E-02
Sample ID:	586922	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.92E-02	0.00E+00	4.92E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-02
				Cs-137	<3.64E-02	0.00E+00	3.64E-02
				Be-7	<2.31E-01	0.00E+00	2.31E-01
				K-40	<6.63E-01	0.00E+00	6.63E-01
Sample ID:	587179	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<2.10E-02	0.00E+00	2.10E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	<2.93E-01	0.00E+00	2.93E-01
Sample ID:	587404	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.11E-02	0.00E+00	3.11E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<1.51E-02	0.00E+00	1.51E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	6.20E-01	3.05E-01	3.53E-01
Sample ID:	587758	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.36E-02	0.00E+00	2.36E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	5.37E-01	2.33E-01	6.62E-02
Sample ID:	588292	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.10E-02	0.00E+00	2.10E-02
				Cs-134	<2.03E-02	0.00E+00	2.03E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID: 588292	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	2.51E-01	2.34E-01	3.50E-01
Sample ID: 588580	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 589505	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.12E-02	0.00E+00	1.12E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
Sample ID: 589751	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
Sample ID: 589997	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
Sample ID: 590342	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 590469	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
Sample ID: 590629	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 591190	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 591426	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 591604	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID: 591604	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.10E-01	2.10E-01	2.06E-01
Sample ID: 591796	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
Sample ID: 592176	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
Sample ID: 592396	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
Sample ID: 592972	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
Sample ID: 593163	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.94E-02	0.00E+00	2.94E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
Sample ID: 593535	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 593797	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 594253	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 594780	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
Sample ID: 594978	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.71E-02	0.00E+00	3.71E-02

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID: 594978	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	4.49E-01	3.24E-01	4.71E-01
Sample ID: 595622	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
Sample ID: 596374	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
Sample ID: 596773	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.06E-02	0.00E+00	4.06E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
Sample ID: 597251	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<5.07E-03	0.00E+00	5.07E-03
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 597853	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 598092	Sample Dates: 10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 598854	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 599052	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.47E-02	0.00E+00	3.47E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
Sample ID: 599448	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<8.15E-02	0.00E+00	8.15E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.98E-02		

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

Sample ID: 600279	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.72E-02	0.00E+00	3.72E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<5.21E-01	0.00E+00	5.21E-01
Sample ID: 601094	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	<4.66E-01	0.00E+00	4.66E-01
Sample ID: 601269	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<4.64E-01	0.00E+00	4.64E-01
Sample ID: 601767	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.16E-02	0.00E+00	4.16E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	3.46E-01	3.12E-01	4.76E-01
Sample ID: 602240	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.82E-02	0.00E+00	4.82E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.87E-01	0.00E+00	2.87E-01
		K-40	1.04E+00	3.90E-01	3.51E-01
Sample ID: 602495	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.50E-02	0.00E+00	5.50E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	7.35E-01	2.95E-01	2.35E-01
Sample ID: 602701	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.78E-02	0.00E+00	4.78E-02
		Cs-134	<4.23E-02	0.00E+00	4.23E-02
		Cs-137	<3.62E-02	0.00E+00	3.62E-02
		Be-7	<3.26E-01	0.00E+00	3.26E-01
		K-40	9.66E-01	4.04E-01	3.69E-01

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

Sample ID: 582633	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	5.29E-01	3.03E-01	3.87E-01
Sample ID: 582941	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	<5.11E-01	0.00E+00	5.11E-01
Sample ID: 583080	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

Sample ID:	583080	Sample Dates:	1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<6.26E-01	0.00E+00	6.26E-01
Sample ID:	583485	Sample Dates:	1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.80E-02	0.00E+00	1.80E-02
				Cs-134	<2.15E-02	0.00E+00	2.15E-02
				Cs-137	<1.85E-02	0.00E+00	1.85E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	<3.23E-01	0.00E+00	3.23E-01
Sample ID:	584211	Sample Dates:	1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.13E-02	0.00E+00	4.13E-02
				Cs-134	<3.50E-02	0.00E+00	3.50E-02
				Cs-137	<2.58E-02	0.00E+00	2.58E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	7.63E-01	3.25E-01	3.12E-01
Sample ID:	584807	Sample Dates:	2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.18E-02	0.00E+00	3.18E-02
				Cs-134	<2.30E-02	0.00E+00	2.30E-02
				Cs-137	<1.98E-02	0.00E+00	1.98E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	6.16E-01	3.12E-01	3.71E-01
Sample ID:	585298	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.89E-02	0.00E+00	3.89E-02
				Cs-134	<2.42E-02	0.00E+00	2.42E-02
				Cs-137	<2.87E-02	0.00E+00	2.87E-02
				Be-7	<2.41E-01	0.00E+00	2.41E-01
				K-40	6.16E-01	2.89E-01	2.79E-01
Sample ID:	585552	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.05E-02	0.00E+00	3.05E-02
				Cs-134	<2.23E-02	0.00E+00	2.23E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.97E-01	0.00E+00	1.97E-01
				K-40	<5.46E-01	0.00E+00	5.46E-01
Sample ID:	585803	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.84E-02	0.00E+00	2.84E-02
				Cs-134	<2.05E-02	0.00E+00	2.05E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	5.43E-01	2.58E-01	2.45E-01
Sample ID:	586057	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.85E-02	0.00E+00	2.85E-02
				Cs-134	<2.97E-02	0.00E+00	2.97E-02
				Cs-137	<2.40E-02	0.00E+00	2.40E-02
				Be-7	<1.70E-01	0.00E+00	1.70E-01
				K-40	<4.77E-01	0.00E+00	4.77E-01
Sample ID:	586656	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.42E-02	0.00E+00	3.42E-02
				Cs-134	<3.41E-02	0.00E+00	3.41E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	<4.24E-01	0.00E+00	4.24E-01
Sample ID:	586924	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.60E-02	0.00E+00	3.60E-02
				Cs-134	<2.70E-02	0.00E+00	2.70E-02
				Cs-137	<2.32E-02	0.00E+00	2.32E-02
				Be-7	<2.15E-01	0.00E+00	2.15E-01
				K-40	2.91E-01	1.86E-01	7.89E-02
Sample ID:	587181	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.82E-02	0.00E+00	3.82E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

Sample ID: 587181	Sample Dates: 3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	7.29E-01	2.84E-01	2.26E-01
Sample Point 55 [INDICATOR - SSE @ 0.2 miles]					
Sample ID: 582630	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 582938	Sample Dates: 1/10/2023 - 1/17/2023	K-40	2.44E-01	2.21E-01	3.24E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
Sample ID: 583077	Sample Dates: 1/17/2023 - 1/23/2023	Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	4.54E-01	2.29E-01	2.17E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
Sample ID: 583482	Sample Dates: 1/23/2023 - 1/31/2023	Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	4.90E-01	3.26E-01	4.45E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
Sample ID: 584208	Sample Dates: 1/31/2023 - 2/7/2023	Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<4.74E-01	0.00E+00	4.74E-01
		Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 584804	Sample Dates: 2/7/2023 - 2/14/2023	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<5.03E-03	0.00E+00	5.03E-03
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	5.47E-01	2.87E-01	3.36E-01
Sample ID: 585295	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 585549	Sample Dates: 2/21/2023 - 2/28/2023	K-40	<5.43E-01	0.00E+00	5.43E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
Sample ID: 585800	Sample Dates: 2/28/2023 - 3/7/2023	Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	4.53E-01	2.22E-01	7.22E-02
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	6.40E-01	2.92E-01	3.13E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 586054	Sample Dates: 3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.88E-01	2.87E-01	3.65E-01
Sample ID: 586653	Sample Dates: 3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	6.37E-01	3.19E-01	3.75E-01
Sample ID: 586921	Sample Dates: 3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<4.20E-02	0.00E+00	4.20E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	<5.83E-01	0.00E+00	5.83E-01
Sample ID: 587178	Sample Dates: 3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	4.27E-01	1.94E-01	5.79E-02
Sample ID: 587403	Sample Dates: 4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
		K-40	7.07E-01	2.83E-01	7.37E-02
Sample ID: 587757	Sample Dates: 4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	6.79E-01	2.72E-01	7.08E-02
Sample ID: 588291	Sample Dates: 4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	<6.37E-01	0.00E+00	6.37E-01
Sample ID: 588579	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	<4.11E-01	0.00E+00	4.11E-01
Sample ID: 589504	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	<5.21E-01	0.00E+00	5.21E-01
Sample ID: 589750	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	<5.15E-01	0.00E+00	5.15E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 589996	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.32E-02	0.00E+00	4.32E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<2.31E-01	0.00E+00	2.31E-01
		K-40	2.53E-01	2.68E-01	4.19E-01
Sample ID: 590341	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	6.25E-01	2.50E-01	6.51E-02
Sample ID: 590468	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<5.00E-01	0.00E+00	5.00E-01
Sample ID: 590628	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	5.34E-01	2.69E-01	2.97E-01
Sample ID: 591189	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	6.20E-01	3.00E-01	3.47E-01
Sample ID: 591425	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.38E-02	0.00E+00	4.38E-02
		Cs-134	<3.07E-02	0.00E+00	3.07E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	6.04E-01	3.15E-01	3.68E-01
Sample ID: 591603	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	<4.00E-01	0.00E+00	4.00E-01
Sample ID: 591795	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	8.31E-01	3.59E-01	3.65E-01
Sample ID: 592175	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	7.08E-01	2.69E-01	6.62E-02
Sample ID: 592395	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	3.65E-01	2.54E-01	3.45E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 592971	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	6.30E-01	2.52E-01	6.57E-02
Sample ID: 593162	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	4.55E-01	2.59E-01	3.06E-01
Sample ID: 593534	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	5.15E-01	2.58E-01	2.78E-01
Sample ID: 593796	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	6.30E-01	2.52E-01	6.57E-02
Sample ID: 594252	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	5.66E-01	2.35E-01	6.39E-02
Sample ID: 594779	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	7.51E-01	2.72E-01	6.36E-02
Sample ID: 594977	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.28E-02	0.00E+00	4.28E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	4.75E-01	2.16E-01	6.43E-02
Sample ID: 595621	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	7.20E-01	3.19E-01	3.49E-01
Sample ID: 596373	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<5.79E-01	0.00E+00	5.79E-01
Sample ID: 596772	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	8.62E-01	3.17E-01	7.54E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 597250	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.06E-02	0.00E+00	3.06E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	3.84E-01	2.96E-01	4.32E-01
Sample ID: 597852	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	5.16E-01	2.93E-01	3.74E-01
Sample ID: 598091	Sample Dates: 10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<4.73E-01	0.00E+00	4.73E-01
Sample ID: 598853	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	<6.03E-01	0.00E+00	6.03E-01
Sample ID: 599051	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	3.59E-01	2.41E-01	3.06E-01
Sample ID: 599447	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<4.92E-01	0.00E+00	4.92E-01
Sample ID: 600278	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	3.17E-01	1.96E-01	2.10E-01
Sample ID: 601093	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.47E-02	0.00E+00	3.47E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<5.63E-01	0.00E+00	5.63E-01
Sample ID: 601268	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	<5.76E-01	0.00E+00	5.76E-01
Sample ID: 601766	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	7.50E-01	2.76E-01	6.55E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 602239	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.73E-02	0.00E+00	3.73E-02
		Cs-134	<2.97E-02	0.00E+00	2.97E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<2.68E-01	0.00E+00	2.68E-01
		K-40	8.84E-01	3.51E-01	3.09E-01
Sample ID: 602494	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.09E-02	0.00E+00	6.09E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	7.61E-01	3.14E-01	2.87E-01
Sample ID: 602700	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.59E-02	0.00E+00	4.59E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<8.24E-01	0.00E+00	8.24E-01

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID: 582632	Sample Dates: 1/3/2023 - 1/10/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<3.86E-01	0.00E+00	3.86E-01
Sample ID: 582940	Sample Dates: 1/10/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.01E-02	0.00E+00	1.01E-02
		Be-7	<9.78E-02	0.00E+00	9.78E-02
		K-40	6.40E-01	1.80E-01	3.15E-02
Sample ID: 583079	Sample Dates: 1/17/2023 - 1/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	<4.63E-01	0.00E+00	4.63E-01
Sample ID: 583484	Sample Dates: 1/23/2023 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	4.73E-01	2.61E-01	3.28E-01
Sample ID: 584210	Sample Dates: 1/31/2023 - 2/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	3.75E-01	2.29E-01	2.68E-01
Sample ID: 584806	Sample Dates: 2/7/2023 - 2/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	3.70E-01	2.27E-01	2.69E-01
Sample ID: 585297	Sample Dates: 2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID:	585297	Sample Dates:	2/14/2023 - 2/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				K-40	5.30E-01	2.63E-01	2.75E-01
Sample ID:	585551	Sample Dates:	2/21/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.48E-02	0.00E+00	2.48E-02
				Cs-134	<2.18E-02	0.00E+00	2.18E-02
				Cs-137	<1.45E-02	0.00E+00	1.45E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	2.99E-01	1.89E-01	2.02E-01
Sample ID:	585802	Sample Dates:	2/28/2023 - 3/7/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.94E-02	0.00E+00	1.94E-02
				Cs-134	<2.15E-02	0.00E+00	2.15E-02
				Cs-137	<2.72E-02	0.00E+00	2.72E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	<5.30E-01	0.00E+00	5.30E-01
Sample ID:	586056	Sample Dates:	3/7/2023 - 3/14/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.89E-02	0.00E+00	2.89E-02
				Cs-134	<2.03E-02	0.00E+00	2.03E-02
				Cs-137	<1.20E-02	0.00E+00	1.20E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	6.61E-01	2.76E-01	2.29E-01
Sample ID:	586655	Sample Dates:	3/14/2023 - 3/21/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.29E-02	0.00E+00	2.29E-02
				Cs-134	<2.69E-02	0.00E+00	2.69E-02
				Cs-137	<2.75E-02	0.00E+00	2.75E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	4.75E-01	2.21E-01	6.77E-02
Sample ID:	586923	Sample Dates:	3/21/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.80E-02	0.00E+00	4.80E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.83E-02	0.00E+00	2.83E-02
				Be-7	<2.67E-01	0.00E+00	2.67E-01
				K-40	5.90E-01	2.74E-01	8.41E-02
Sample ID:	587180	Sample Dates:	3/27/2023 - 4/4/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.61E-02	0.00E+00	2.61E-02
				Cs-134	<1.80E-02	0.00E+00	1.80E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	6.90E-01	2.50E-01	5.85E-02
Sample ID:	587405	Sample Dates:	4/4/2023 - 4/11/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.68E-02	0.00E+00	1.68E-02
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.70E-01	0.00E+00	1.70E-01
				K-40	4.90E-01	2.73E-01	3.32E-01
Sample ID:	587759	Sample Dates:	4/11/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.21E-02	0.00E+00	4.21E-02
				Cs-134	<2.46E-02	0.00E+00	2.46E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<2.24E-01	0.00E+00	2.24E-01
				K-40	5.31E-01	3.03E-01	3.70E-01
Sample ID:	588293	Sample Dates:	4/18/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.67E-02	0.00E+00	2.67E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.65E-01	0.00E+00	1.65E-01
				K-40	<4.70E-01	0.00E+00	4.70E-01
Sample ID:	588581	Sample Dates:	4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.46E-02	0.00E+00	1.46E-02
				Cs-134	<2.26E-02	0.00E+00	2.26E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID: 588581	Sample Dates: 4/25/2023 - 5/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<4.85E-01	0.00E+00	4.85E-01
Sample ID: 589506	Sample Dates: 5/2/2023 - 5/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 589752	Sample Dates: 5/9/2023 - 5/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
Sample ID: 589998	Sample Dates: 5/16/2023 - 5/23/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<9.81E-02	0.00E+00	9.81E-02
Sample ID: 590343	Sample Dates: 5/23/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 590470	Sample Dates: 5/30/2023 - 6/6/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 590630	Sample Dates: 6/6/2023 - 6/13/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 591191	Sample Dates: 6/13/2023 - 6/20/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 591427	Sample Dates: 6/20/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
Sample ID: 591605	Sample Dates: 6/27/2023 - 7/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
Sample ID: 591797	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID: 591797	Sample Dates: 7/5/2023 - 7/11/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	6.64E-01	3.13E-01	3.03E-01
Sample ID: 592177	Sample Dates: 7/11/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 592397	Sample Dates: 7/18/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
Sample ID: 592973	Sample Dates: 7/25/2023 - 8/1/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 593164	Sample Dates: 8/1/2023 - 8/8/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 593536	Sample Dates: 8/8/2023 - 8/15/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
Sample ID: 593798	Sample Dates: 8/15/2023 - 8/22/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
Sample ID: 594254	Sample Dates: 8/22/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
Sample ID: 594781	Sample Dates: 8/29/2023 - 9/5/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
Sample ID: 594979	Sample Dates: 9/5/2023 - 9/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.65E-02	0.00E+00	4.65E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 595623	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.25E-02	0.00E+00	3.25E-02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID: 595623	Sample Dates: 9/12/2023 - 9/19/2023	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	4.96E-01	2.75E-01	3.39E-01
Sample ID: 596375	Sample Dates: 9/19/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 596774	Sample Dates: 9/26/2023 - 10/2/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
Sample ID: 597252	Sample Dates: 10/2/2023 - 10/9/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 597854	Sample Dates: 10/9/2023 - 10/16/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 598093	Sample Dates: 10/16/2023 - 10/24/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 598855	Sample Dates: 10/24/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
Sample ID: 599053	Sample Dates: 10/31/2023 - 11/7/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
Sample ID: 599449	Sample Dates: 11/7/2023 - 11/14/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 600280	Sample Dates: 11/14/2023 - 11/21/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.15E-02	0.00E+00	4.15E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.61E-01	0.00E+00	4.61E-01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 60 [INDICATOR - SE @ 0.2 miles]

Sample ID: 601095	Sample Dates: 11/21/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 601270	Sample Dates: 11/28/2023 - 12/5/2023	Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 601768	Sample Dates: 12/5/2023 - 12/12/2023	Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 602241	Sample Dates: 12/12/2023 - 12/19/2023	Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 602496	Sample Dates: 12/19/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 602702	Sample Dates: 12/27/2023 - 1/2/2024	Nuclide	Activity	2 Sigma Error	MDA

Media Type: CROPS Concentration (Activity): pCi/kg wet

Sample Point 54 [INDICATOR - E @ 10.1 miles]

Sample ID: 593239	Sample Dates: 7/13/2023 - 7/13/2023	CORN	Nuclide	Activity	2 Sigma Error	MDA

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 45 [INDICATOR - @ 0 miles]

Sample ID: 589754	Sample Dates: 5/11/2023 - 5/11/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 45 [INDICATOR - @ 0 miles]

Sample ID:	589754	Sample Dates:	5/11/2023 - 5/11/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<1.09E+02	0.00E+00	1.09E+02
					Nb-95	<7.35E+01	0.00E+00	7.35E+01
					I-131	<8.91E+01	0.00E+00	8.91E+01
					Cs-134	<8.22E+01	0.00E+00	8.22E+01
					Cs-137	<5.58E+01	0.00E+00	5.58E+01
					Be-7	<5.73E+02	0.00E+00	5.73E+02
					K-40	4.65E+03	1.23E+03	1.06E+03
					Ag-110M	<6.46E+01	0.00E+00	6.46E+01
					Sb-122	<2.90E+02	0.00E+00	2.90E+02
					Sb-125	<1.53E+02	0.00E+00	1.53E+02

Sample ID:	589755	Sample Dates:	5/11/2023 - 5/11/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.84E+01	0.00E+00	4.84E+01
					Co-58	<6.90E+01	0.00E+00	6.90E+01
					Fe-59	<1.34E+02	0.00E+00	1.34E+02
					Co-60	<6.11E+01	0.00E+00	6.11E+01
					Zn-65	<1.32E+02	0.00E+00	1.32E+02
					Nb-95	<6.30E+01	0.00E+00	6.30E+01
					I-131	<7.54E+01	0.00E+00	7.54E+01
					Cs-134	<7.15E+01	0.00E+00	7.15E+01
					Cs-137	<7.90E+01	0.00E+00	7.90E+01
					Be-7	<4.77E+02	0.00E+00	4.77E+02
					K-40	5.35E+03	1.27E+03	8.95E+02
					Ag-110M	<4.99E+01	0.00E+00	4.99E+01
					Sb-122	<3.86E+02	0.00E+00	3.86E+02
					Sb-125	<1.68E+02	0.00E+00	1.68E+02

Sample ID:	599924	Sample Dates:	11/7/2023 - 11/7/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<9.29E+01	0.00E+00	9.29E+01
					Co-58	<9.80E+01	0.00E+00	9.80E+01
					Fe-59	<1.83E+02	0.00E+00	1.83E+02
					Co-60	<2.33E+01	0.00E+00	2.33E+01
					Zn-65	<1.86E+02	0.00E+00	1.86E+02
					Nb-95	<1.14E+02	0.00E+00	1.14E+02
					I-131	<1.53E+02	0.00E+00	1.53E+02
					Cs-134	<9.05E+01	0.00E+00	9.05E+01
					Cs-137	<7.87E+01	0.00E+00	7.87E+01
					Be-7	<6.95E+02	0.00E+00	6.95E+02
					K-40	4.67E+03	1.41E+03	1.04E+03
					Ag-110M	<7.69E+01	0.00E+00	7.69E+01
					Sb-122	<8.13E+02	0.00E+00	8.13E+02
					Sb-125	<2.41E+02	0.00E+00	2.41E+02

Sample ID:	599925	Sample Dates:	11/7/2023 - 11/7/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.79E+01	0.00E+00	6.79E+01
					Co-58	<7.82E+01	0.00E+00	7.82E+01
					Fe-59	<1.67E+02	0.00E+00	1.67E+02
					Co-60	<5.77E+01	0.00E+00	5.77E+01
					Zn-65	<1.69E+02	0.00E+00	1.69E+02
					Nb-95	<1.18E+02	0.00E+00	1.18E+02
					I-131	<1.25E+02	0.00E+00	1.25E+02
					Cs-134	<1.00E+02	0.00E+00	1.00E+02
					Cs-137	<1.03E+02	0.00E+00	1.03E+02
					Be-7	<6.63E+02	0.00E+00	6.63E+02
					K-40	4.39E+03	1.27E+03	7.88E+02
					Ag-110M	<9.03E+01	0.00E+00	9.03E+01
					Sb-122	<1.03E+03	0.00E+00	1.03E+03
					Sb-125	<1.63E+02	0.00E+00	1.63E+02

Sample Point 46 [INDICATOR - @ 0 miles]

Sample ID:	589756	Sample Dates:	5/12/2023 - 5/12/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.98E+01	0.00E+00	6.98E+01
					Co-58	<7.40E+01	0.00E+00	7.40E+01
					Fe-59	<1.22E+02	0.00E+00	1.22E+02
					Co-60	<6.81E+01	0.00E+00	6.81E+01
					Zn-65	<1.61E+02	0.00E+00	1.61E+02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 46 [INDICATOR - @ 0 miles]

Sample ID:	589756	Sample Dates:	5/12/2023 - 5/12/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Nb-95	<6.66E+01	0.00E+00	6.66E+01
					I-131	<1.06E+02	0.00E+00	1.06E+02
					Cs-134	<8.10E+01	0.00E+00	8.10E+01
					Cs-137	<6.57E+01	0.00E+00	6.57E+01
					Be-7	<5.04E+02	0.00E+00	5.04E+02
					K-40	5.39E+03	1.25E+03	9.64E+02
					Ag-110M	<4.89E+01	0.00E+00	4.89E+01
					Sb-122	<2.63E+02	0.00E+00	2.63E+02
					Sb-125	<1.54E+02	0.00E+00	1.54E+02

Sample ID:	589757	Sample Dates:	5/12/2023 - 5/12/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.92E+01	0.00E+00	5.92E+01
					Co-58	<6.41E+01	0.00E+00	6.41E+01
					Fe-59	<1.30E+02	0.00E+00	1.30E+02
					Co-60	<7.77E+01	0.00E+00	7.77E+01
					Zn-65	<1.38E+02	0.00E+00	1.38E+02
					Nb-95	<7.66E+01	0.00E+00	7.66E+01
					I-131	<9.51E+01	0.00E+00	9.51E+01
					Cs-134	<7.70E+01	0.00E+00	7.70E+01
					Cs-137	<9.45E+01	0.00E+00	9.45E+01
					Be-7	<5.16E+02	0.00E+00	5.16E+02
					K-40	4.27E+03	1.14E+03	9.74E+02
					Ag-110M	<5.77E+01	0.00E+00	5.77E+01
					Sb-122	<3.02E+02	0.00E+00	3.02E+02
					Sb-125	<1.47E+02	0.00E+00	1.47E+02

Sample ID:	599926	Sample Dates:	11/8/2023 - 11/8/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.81E+01	0.00E+00	6.81E+01
					Co-58	<8.15E+01	0.00E+00	8.15E+01
					Fe-59	<1.78E+02	0.00E+00	1.78E+02
					Co-60	<8.74E+01	0.00E+00	8.74E+01
					Zn-65	<1.83E+02	0.00E+00	1.83E+02
					Nb-95	<7.37E+01	0.00E+00	7.37E+01
					I-131	<1.40E+02	0.00E+00	1.40E+02
					Cs-134	<9.67E+01	0.00E+00	9.67E+01
					Cs-137	<7.99E+01	0.00E+00	7.99E+01
					Be-7	<7.04E+02	0.00E+00	7.04E+02
					K-40	3.24E+03	1.14E+03	1.09E+03
					Ag-110M	<5.48E+01	0.00E+00	5.48E+01
					Sb-122	<6.70E+02	0.00E+00	6.70E+02
					Sb-125	<1.86E+02	0.00E+00	1.86E+02

Sample ID:	599927	Sample Dates:	11/8/2023 - 11/8/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<6.57E+01	0.00E+00	6.57E+01
					Co-58	<6.16E+01	0.00E+00	6.16E+01
					Fe-59	<1.59E+02	0.00E+00	1.59E+02
					Co-60	<7.08E+01	0.00E+00	7.08E+01
					Zn-65	<2.17E+02	0.00E+00	2.17E+02
					Nb-95	<8.35E+01	0.00E+00	8.35E+01
					I-131	<1.62E+02	0.00E+00	1.62E+02
					Cs-134	<4.50E+01	0.00E+00	4.50E+01
					Cs-137	<9.99E+01	0.00E+00	9.99E+01
					Be-7	<5.99E+02	0.00E+00	5.99E+02
					K-40	3.88E+03	1.13E+03	2.06E+02
					Ag-110M	<7.63E+01	0.00E+00	7.63E+01
					Sb-122	<6.26E+02	0.00E+00	6.26E+02
					Sb-125	<2.17E+02	0.00E+00	2.17E+02

Sample Point 47 [CONTROL - @ 0 miles]

Sample ID:	589758	Sample Dates:	5/10/2023 - 5/10/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<8.07E+01	0.00E+00	8.07E+01
					Co-58	<6.34E+01	0.00E+00	6.34E+01
					Fe-59	<1.93E+02	0.00E+00	1.93E+02
					Co-60	<9.36E+01	0.00E+00	9.36E+01
					Zn-65	<1.18E+02	0.00E+00	1.18E+02
					Nb-95	<9.02E+01	0.00E+00	9.02E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 47 [CONTROL - @ 0 miles]

Sample ID: 589758	Sample Dates: 5/10/2023 - 5/10/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.06E+02	0.00E+00	1.06E+02
			Cs-134	<8.55E+01	0.00E+00	8.55E+01
			Cs-137	<7.01E+01	0.00E+00	7.01E+01
			Be-7	<5.63E+02	0.00E+00	5.63E+02
			K-40	4.33E+03	1.23E+03	8.15E+02
			Ag-110M	<5.89E+01	0.00E+00	5.89E+01
			Sb-122	<5.60E+02	0.00E+00	5.60E+02
			Sb-125	<1.86E+02	0.00E+00	1.86E+02
Sample ID: 589759	Sample Dates: 5/10/2023 - 5/10/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.78E+01	0.00E+00	5.78E+01
			Co-58	<4.85E+01	0.00E+00	4.85E+01
			Fe-59	<1.16E+02	0.00E+00	1.16E+02
			Co-60	<4.62E+01	0.00E+00	4.62E+01
			Zn-65	<1.23E+02	0.00E+00	1.23E+02
			Nb-95	<6.35E+01	0.00E+00	6.35E+01
			I-131	<9.62E+01	0.00E+00	9.62E+01
			Cs-134	<6.58E+01	0.00E+00	6.58E+01
			Cs-137	4.84E+01	5.85E+01	9.58E+01
			Be-7	<4.33E+02	0.00E+00	4.33E+02
			K-40	4.34E+03	9.02E+02	6.63E+02
			Ag-110M	<4.56E+01	0.00E+00	4.56E+01
			Sb-122	<4.81E+02	0.00E+00	4.81E+02
			Sb-125	<1.48E+02	0.00E+00	1.48E+02
Sample ID: 599928	Sample Dates: 11/6/2023 - 11/6/2023	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<7.82E+01	0.00E+00	7.82E+01
			Co-58	<8.83E+01	0.00E+00	8.83E+01
			Fe-59	<2.18E+02	0.00E+00	2.18E+02
			Co-60	<5.63E+01	0.00E+00	5.63E+01
			Zn-65	<1.81E+02	0.00E+00	1.81E+02
			Nb-95	<6.69E+01	0.00E+00	6.69E+01
			I-131	<1.51E+02	0.00E+00	1.51E+02
			Cs-134	<8.10E+01	0.00E+00	8.10E+01
			Cs-137	<8.96E+01	0.00E+00	8.96E+01
			Be-7	<6.86E+02	0.00E+00	6.86E+02
			K-40	3.99E+03	1.25E+03	1.02E+03
			Ag-110M	<9.85E+01	0.00E+00	9.85E+01
			Sb-122	<9.58E+02	0.00E+00	9.58E+02
			Sb-125	<1.60E+02	0.00E+00	1.60E+02
Sample ID: 599929	Sample Dates: 11/6/2023 - 11/6/2023	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<8.45E+01	0.00E+00	8.45E+01
			Co-58	<7.40E+01	0.00E+00	7.40E+01
			Fe-59	<1.59E+02	0.00E+00	1.59E+02
			Co-60	<8.90E+01	0.00E+00	8.90E+01
			Zn-65	<1.88E+02	0.00E+00	1.88E+02
			Nb-95	<9.46E+01	0.00E+00	9.46E+01
			I-131	<1.63E+02	0.00E+00	1.63E+02
			Cs-134	<8.91E+01	0.00E+00	8.91E+01
			Cs-137	<1.00E+02	0.00E+00	1.00E+02
			Be-7	<6.00E+02	0.00E+00	6.00E+02
			K-40	4.49E+03	1.37E+03	1.27E+03
			Ag-110M	<7.04E+01	0.00E+00	7.04E+01
			Sb-122	<1.49E+03	0.00E+00	1.49E+03
			Sb-125	<1.98E+02	0.00E+00	1.98E+02

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 64 [INDICATOR - SE @ 0.6 miles]

Sample ID: 582540	Sample Dates: 1/3/2023 - 1/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.46E+00	0.00E+00	5.46E+00
		Co-58	<6.03E+00	0.00E+00	6.03E+00
		Fe-59	<1.34E+01	0.00E+00	1.34E+01
		Co-60	<5.97E+00	0.00E+00	5.97E+00
		Zn-65	<9.04E+00	0.00E+00	9.04E+00
		Zr-95	<1.15E+01	0.00E+00	1.15E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 64 [INDICATOR - SE @ 0.6 miles]

Sample ID: 582540	Sample Dates: 1/3/2023 - 1/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<6.86E+00	0.00E+00	6.86E+00
		I-131	<8.77E+00	0.00E+00	8.77E+00
		Cs-134	<6.34E+00	0.00E+00	6.34E+00
		Cs-137	<7.02E+00	0.00E+00	7.02E+00
		BaLa-140	<9.81E+00	0.00E+00	9.81E+00
		Be-7	<4.04E+01	0.00E+00	4.04E+01
		K-40	<1.10E+02	0.00E+00	1.10E+02
		H3GW	<2.45E+01	0.00E+00	1.87E+02
Sample ID: 588650	Sample Dates: 4/18/2023 - 4/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.83E+00	0.00E+00	5.83E+00
		Co-58	<6.76E+00	0.00E+00	6.76E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<3.93E+00	0.00E+00	3.93E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<7.86E+00	0.00E+00	7.86E+00
		Nb-95	<7.11E+00	0.00E+00	7.11E+00
		I-131	<7.51E+00	0.00E+00	7.51E+00
		Cs-134	<6.09E+00	0.00E+00	6.09E+00
		Cs-137	<6.87E+00	0.00E+00	6.87E+00
		BaLa-140	<5.53E+00	0.00E+00	5.53E+00
		Be-7	<4.23E+01	0.00E+00	4.23E+01
		K-40	1.34E+02	6.79E+01	8.93E+01
		H3GW	<6.52E+01	0.00E+00	1.82E+02
Sample ID: 591360	Sample Dates: 7/12/2023 - 7/12/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.59E+00	0.00E+00	4.59E+00
		Co-58	<5.44E+00	0.00E+00	5.44E+00
		Fe-59	<8.61E+00	0.00E+00	8.61E+00
		Co-60	<5.23E+00	0.00E+00	5.23E+00
		Zn-65	<1.01E+01	0.00E+00	1.01E+01
		Zr-95	<8.64E+00	0.00E+00	8.64E+00
		Nb-95	<7.36E+00	0.00E+00	7.36E+00
		I-131	<8.36E+00	0.00E+00	8.36E+00
		Cs-134	<7.10E+00	0.00E+00	7.10E+00
		Cs-137	<4.97E+00	0.00E+00	4.97E+00
		BaLa-140	<9.60E+00	0.00E+00	9.60E+00
		Be-7	<4.25E+01	0.00E+00	4.25E+01
		K-40	<7.27E+01	0.00E+00	7.27E+01
		H3GW	<-3.7E+01	0.00E+00	1.91E+02
Sample ID: 596321	Sample Dates: 10/3/2023 - 10/3/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.58E+00	0.00E+00	5.58E+00
		Co-58	<7.25E+00	0.00E+00	7.25E+00
		Fe-59	<1.16E+01	0.00E+00	1.16E+01
		Co-60	<6.30E+00	0.00E+00	6.30E+00
		Zn-65	<1.39E+01	0.00E+00	1.39E+01
		Zr-95	<1.24E+01	0.00E+00	1.24E+01
		Nb-95	<6.46E+00	0.00E+00	6.46E+00
		I-131	<6.78E+00	0.00E+00	6.78E+00
		Cs-134	<8.18E+00	0.00E+00	8.18E+00
		Cs-137	<6.19E+00	0.00E+00	6.19E+00
		BaLa-140	<6.00E+00	0.00E+00	6.00E+00
		Be-7	<4.86E+01	0.00E+00	4.86E+01
		K-40	1.50E+02	8.59E+01	1.24E+02
		H3GW	<5.56E+01	0.00E+00	1.85E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 44 [INDICATOR - NNE @ 1.6 miles]

Sample ID: 571769	Sample Dates: 1/17/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.11E+01	0.00E+00	5.11E+01
		Co-58	<4.07E+01	0.00E+00	4.07E+01
		Fe-59	<7.29E+01	0.00E+00	7.29E+01
		Co-60	<3.29E+01	0.00E+00	3.29E+01
		Zn-65	<7.46E+01	0.00E+00	7.46E+01
		Zr-95	<6.39E+01	0.00E+00	6.39E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 44 [INDICATOR - NNE @ 1.6 miles]

Sample ID: 571769	Sample Dates: 1/17/2023 - 1/17/2023	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<5.59E+01	0.00E+00	5.59E+01
		I-131	<7.08E+01	0.00E+00	7.08E+01
		Cs-134	<3.34E+01	0.00E+00	3.34E+01
		Cs-137	<4.69E+01	0.00E+00	4.69E+01
		Be-7	<3.74E+02	0.00E+00	3.74E+02
		K-40	5.35E+02	3.39E+02	3.41E+02
		Co-57	<3.05E+01	0.00E+00	3.05E+01
		Mo-99	<2.50E+03	0.00E+00	2.50E+03
		Ag-110M	<4.26E+01	0.00E+00	4.26E+01
		Sb-122	<2.22E+02	0.00E+00	2.22E+02
		Sb-125	<1.04E+02	0.00E+00	1.04E+02

Sample ID: 585164	Sample Dates: 7/18/2023 - 7/18/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.83E+01	0.00E+00	3.83E+01
		Co-58	<4.74E+01	0.00E+00	4.74E+01
		Fe-59	<8.46E+01	0.00E+00	8.46E+01
		Co-60	<4.79E+01	0.00E+00	4.79E+01
		Zn-65	<1.13E+02	0.00E+00	1.13E+02
		Zr-95	<7.08E+01	0.00E+00	7.08E+01
		Nb-95	<5.58E+01	0.00E+00	5.58E+01
		I-131	<8.23E+01	0.00E+00	8.23E+01
		Cs-134	<4.27E+01	0.00E+00	4.27E+01
		Cs-137	<4.36E+01	0.00E+00	4.36E+01
		Be-7	<3.76E+02	0.00E+00	3.76E+02
		K-40	<8.93E+02	0.00E+00	8.93E+02
		Co-57	<2.98E+01	0.00E+00	2.98E+01
		Mo-99	<3.73E+03	0.00E+00	3.73E+03
		Ag-110M	<3.96E+01	0.00E+00	3.96E+01
		Sb-122	<3.69E+02	0.00E+00	3.69E+02
		Sb-125	<7.10E+01	0.00E+00	7.10E+01

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - ESE @ 0.6 miles]

Sample ID: 584212	Sample Dates: 12/27/2022 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.50E+00	0.00E+00	2.50E+00
		Co-58	<3.09E+00	0.00E+00	3.09E+00
		Fe-59	<6.45E+00	0.00E+00	6.45E+00
		Co-60	<2.78E+00	0.00E+00	2.78E+00
		Zn-65	<5.59E+00	0.00E+00	5.59E+00
		Zr-95	<4.90E+00	0.00E+00	4.90E+00
		Nb-95	<3.49E+00	0.00E+00	3.49E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.01E+00	0.00E+00	3.01E+00
		Cs-137	<2.57E+00	0.00E+00	2.57E+00
		BaLa-140	<7.62E+00	0.00E+00	7.62E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	7.26E+01	3.33E+01	4.47E+01
		H3SW	3.01E+03	1.98E+02	1.98E+02

Sample ID: 585948	Sample Dates: 1/31/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.80E+00	0.00E+00	2.80E+00
		Co-58	<3.75E+00	0.00E+00	3.75E+00
		Fe-59	<6.47E+00	0.00E+00	6.47E+00
		Co-60	<4.18E+00	0.00E+00	4.18E+00
		Zn-65	<4.95E+00	0.00E+00	4.95E+00
		Zr-95	<7.39E+00	0.00E+00	7.39E+00
		Nb-95	<3.69E+00	0.00E+00	3.69E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.75E+00	0.00E+00	3.75E+00
		Cs-137	<3.16E+00	0.00E+00	3.16E+00
		BaLa-140	<9.15E+00	0.00E+00	9.15E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	6.50E+01	4.29E+01	6.31E+01
		H3SW	1.34E+03	1.61E+02	2.06E+02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - ESE @ 0.6 miles]

Sample ID: 587370	Sample Dates: 2/28/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<3.70E+00	0.00E+00	3.70E+00
		Fe-59	<7.13E+00	0.00E+00	7.13E+00
		Co-60	<2.12E+00	0.00E+00	2.12E+00
		Zn-65	<5.52E+00	0.00E+00	5.52E+00
		Zr-95	<6.97E+00	0.00E+00	6.97E+00
		Nb-95	<4.65E+00	0.00E+00	4.65E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.31E+00	0.00E+00	3.31E+00
		Cs-137	<2.63E+00	0.00E+00	2.63E+00
		BaLa-140	<9.28E+00	0.00E+00	9.28E+00
		Be-7	<2.49E+01	0.00E+00	2.49E+01
		K-40	6.18E+01	3.90E+01	5.66E+01
		H3SW	1.34E+03	1.61E+02	2.07E+02
Sample ID: 589493	Sample Dates: 3/27/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.99E+00	0.00E+00	2.99E+00
		Co-58	<3.58E+00	0.00E+00	3.58E+00
		Fe-59	<7.39E+00	0.00E+00	7.39E+00
		Co-60	<3.35E+00	0.00E+00	3.35E+00
		Zn-65	<5.51E+00	0.00E+00	5.51E+00
		Zr-95	<5.94E+00	0.00E+00	5.94E+00
		Nb-95	<4.30E+00	0.00E+00	4.30E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.49E+00	0.00E+00	4.49E+00
		Cs-137	<3.53E+00	0.00E+00	3.53E+00
		BaLa-140	<6.62E+00	0.00E+00	6.62E+00
		Be-7	<2.79E+01	0.00E+00	2.79E+01
		K-40	8.34E+01	3.95E+01	5.28E+01
		H3SW	7.48E+02	1.34E+02	1.90E+02
Sample ID: 590545	Sample Dates: 4/25/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.38E+00	0.00E+00	2.38E+00
		Co-58	<3.14E+00	0.00E+00	3.14E+00
		Fe-59	<5.19E+00	0.00E+00	5.19E+00
		Co-60	<2.66E+00	0.00E+00	2.66E+00
		Zn-65	<5.18E+00	0.00E+00	5.18E+00
		Zr-95	<5.58E+00	0.00E+00	5.58E+00
		Nb-95	<3.72E+00	0.00E+00	3.72E+00
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<2.81E+00	0.00E+00	2.81E+00
		Cs-137	<2.12E+00	0.00E+00	2.12E+00
		BaLa-140	<6.48E+00	0.00E+00	6.48E+00
		Be-7	<2.30E+01	0.00E+00	2.30E+01
		K-40	<4.38E+01	0.00E+00	4.38E+01
		H3SW	4.37E+02	1.30E+02	1.99E+02
Sample ID: 591745	Sample Dates: 5/30/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<3.52E+00	0.00E+00	3.52E+00
		Fe-59	<8.38E+00	0.00E+00	8.38E+00
		Co-60	<3.72E+00	0.00E+00	3.72E+00
		Zn-65	<7.19E+00	0.00E+00	7.19E+00
		Zr-95	<6.47E+00	0.00E+00	6.47E+00
		Nb-95	<4.62E+00	0.00E+00	4.62E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<2.95E+00	0.00E+00	2.95E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<3.39E+01	0.00E+00	3.39E+01
		K-40	8.82E+01	3.61E+01	4.20E+01
		H3SW	1.92E+03	1.77E+02	2.09E+02
Sample ID: 593150	Sample Dates: 6/27/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.74E+00	0.00E+00	2.74E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<4.87E+00	0.00E+00	4.87E+00

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - ESE @ 0.6 miles]

Sample ID: 593150	Sample Dates: 6/27/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<2.15E+00	0.00E+00	2.15E+00
		Zn-65	<7.41E+00	0.00E+00	7.41E+00
		Zr-95	<5.63E+00	0.00E+00	5.63E+00
		Nb-95	<4.53E+00	0.00E+00	4.53E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.08E+00	0.00E+00	4.08E+00
		Cs-137	<3.15E+00	0.00E+00	3.15E+00
		BaLa-140	<5.76E+00	0.00E+00	5.76E+00
		Be-7	<3.20E+01	0.00E+00	3.20E+01
		K-40	6.61E+01	3.43E+01	4.46E+01
		H3SW	1.60E+03	1.57E+02	1.90E+02
Sample ID: 594782	Sample Dates: 7/25/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.26E+00	0.00E+00	3.26E+00
		Co-58	<3.61E+00	0.00E+00	3.61E+00
		Fe-59	<9.30E+00	0.00E+00	9.30E+00
		Co-60	<3.40E+00	0.00E+00	3.40E+00
		Zn-65	<7.25E+00	0.00E+00	7.25E+00
		Zr-95	<5.98E+00	0.00E+00	5.98E+00
		Nb-95	<3.76E+00	0.00E+00	3.76E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.82E+00	0.00E+00	3.82E+00
		Cs-137	<3.23E+00	0.00E+00	3.23E+00
		BaLa-140	<1.14E+01	0.00E+00	1.14E+01
		Be-7	<3.33E+01	0.00E+00	3.33E+01
		K-40	1.03E+02	3.92E+01	4.59E+01
		H3SW	1.88E+03	1.58E+02	1.81E+02
Sample ID: 596869	Sample Dates: 8/29/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.28E+00	0.00E+00	2.28E+00
		Co-58	<2.26E+00	0.00E+00	2.26E+00
		Fe-59	<4.43E+00	0.00E+00	4.43E+00
		Co-60	<2.01E+00	0.00E+00	2.01E+00
		Zn-65	<4.78E+00	0.00E+00	4.78E+00
		Zr-95	<3.91E+00	0.00E+00	3.91E+00
		Nb-95	<3.06E+00	0.00E+00	3.06E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<2.49E+00	0.00E+00	2.49E+00
		Cs-137	<1.97E+00	0.00E+00	1.97E+00
		BaLa-140	<5.65E+00	0.00E+00	5.65E+00
		Be-7	<2.16E+01	0.00E+00	2.16E+01
		K-40	9.81E+01	2.56E+01	2.85E+01
		H3SW	1.73E+03	1.68E+02	2.00E+02
Sample ID: 599007	Sample Dates: 9/26/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.52E+00	0.00E+00	2.52E+00
		Co-58	<2.80E+00	0.00E+00	2.80E+00
		Fe-59	<5.66E+00	0.00E+00	5.66E+00
		Co-60	<2.97E+00	0.00E+00	2.97E+00
		Zn-65	<5.30E+00	0.00E+00	5.30E+00
		Zr-95	<6.04E+00	0.00E+00	6.04E+00
		Nb-95	<3.78E+00	0.00E+00	3.78E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.08E+00	0.00E+00	3.08E+00
		Cs-137	<2.22E+00	0.00E+00	2.22E+00
		BaLa-140	<7.69E+00	0.00E+00	7.69E+00
		Be-7	<2.37E+01	0.00E+00	2.37E+01
		K-40	1.85E+02	4.00E+01	4.52E+01
		H3SW	1.21E+03	1.48E+02	1.93E+02
Sample ID: 601258	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.97E+00	0.00E+00	1.97E+00
		Co-58	<2.41E+00	0.00E+00	2.41E+00
		Fe-59	<5.45E+00	0.00E+00	5.45E+00
		Co-60	<2.64E+00	0.00E+00	2.64E+00
		Zn-65	<4.75E+00	0.00E+00	4.75E+00
		Zr-95	<4.92E+00	0.00E+00	4.92E+00

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - ESE @ 0.6 miles]

Sample ID:	601258	Sample Dates:	10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<3.13E+00	0.00E+00	3.13E+00
				I-131	<1.35E+01	0.00E+00	1.35E+01
				Cs-134	<2.29E+00	0.00E+00	2.29E+00
				Cs-137	<2.07E+00	0.00E+00	2.07E+00
				BaLa-140	<6.38E+00	0.00E+00	6.38E+00
				Be-7	<2.20E+01	0.00E+00	2.20E+01
				K-40	1.09E+02	2.50E+01	1.93E+01
				H3SW	1.23E+03	1.57E+02	2.06E+02

Sample ID:	602769	Sample Dates:	11/28/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.86E+00	0.00E+00	1.86E+00
				Co-58	<2.48E+00	0.00E+00	2.48E+00
				Fe-59	<4.43E+00	0.00E+00	4.43E+00
				Co-60	<2.23E+00	0.00E+00	2.23E+00
				Zn-65	<4.29E+00	0.00E+00	4.29E+00
				Zr-95	<4.94E+00	0.00E+00	4.94E+00
				Nb-95	<2.98E+00	0.00E+00	2.98E+00
				I-131	<1.13E+01	0.00E+00	1.13E+01
				Cs-134	<2.18E+00	0.00E+00	2.18E+00
				Cs-137	<2.37E+00	0.00E+00	2.37E+00
				BaLa-140	<6.48E+00	0.00E+00	6.48E+00
				Be-7	<2.07E+01	0.00E+00	2.07E+01
				K-40	6.23E+01	2.33E+01	3.14E+01
				H3SW	7.47E+02	1.45E+02	2.10E+02

Sample Point 41 [CONTROL - N @ 8 miles]

Sample ID:	584213	Sample Dates:	12/27/2022 - 1/31/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.39E+00	0.00E+00	2.39E+00
				Co-58	<3.19E+00	0.00E+00	3.19E+00
				Fe-59	<6.51E+00	0.00E+00	6.51E+00
				Co-60	<2.34E+00	0.00E+00	2.34E+00
				Zn-65	<5.41E+00	0.00E+00	5.41E+00
				Zr-95	<5.38E+00	0.00E+00	5.38E+00
				Nb-95	<3.43E+00	0.00E+00	3.43E+00
				I-131	<1.22E+01	0.00E+00	1.22E+01
				Cs-134	<2.64E+00	0.00E+00	2.64E+00
				Cs-137	<3.19E+00	0.00E+00	3.19E+00
				BaLa-140	<5.46E+00	0.00E+00	5.46E+00
				Be-7	<2.64E+01	0.00E+00	2.64E+01
				K-40	8.27E+01	3.48E+01	4.75E+01
				H3SW	<9.74E+01	0.00E+00	1.97E+02

Sample ID:	585949	Sample Dates:	1/31/2023 - 2/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.66E+00	0.00E+00	2.66E+00
				Co-58	<3.76E+00	0.00E+00	3.76E+00
				Fe-59	<6.64E+00	0.00E+00	6.64E+00
				Co-60	<2.92E+00	0.00E+00	2.92E+00
				Zn-65	<7.16E+00	0.00E+00	7.16E+00
				Zr-95	<7.80E+00	0.00E+00	7.80E+00
				Nb-95	<4.36E+00	0.00E+00	4.36E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<3.86E+00	0.00E+00	3.86E+00
				Cs-137	<2.72E+00	0.00E+00	2.72E+00
				BaLa-140	<9.37E+00	0.00E+00	9.37E+00
				Be-7	<3.10E+01	0.00E+00	3.10E+01
				K-40	8.01E+01	3.53E+01	4.28E+01
				H3SW	<-7.8E+01	0.00E+00	2.06E+02

Sample ID:	587371	Sample Dates:	2/28/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.16E+00	0.00E+00	3.16E+00
				Co-58	<3.13E+00	0.00E+00	3.13E+00
				Fe-59	<6.78E+00	0.00E+00	6.78E+00
				Co-60	<3.81E+00	0.00E+00	3.81E+00
				Zn-65	<7.80E+00	0.00E+00	7.80E+00
				Zr-95	<6.80E+00	0.00E+00	6.80E+00
				Nb-95	<3.65E+00	0.00E+00	3.65E+00

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 41 [CONTROL - N @ 8 miles]

Sample ID: 587371	Sample Dates: 2/28/2023 - 3/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.18E+00	0.00E+00	3.18E+00
		BaLa-140	<8.91E+00	0.00E+00	8.91E+00
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	<6.56E+01	0.00E+00	6.56E+01
		H3SW	<-5.4E+00	0.00E+00	2.07E+02
Sample ID: 589494	Sample Dates: 3/27/2023 - 4/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.80E+00	0.00E+00	2.80E+00
		Co-58	<3.13E+00	0.00E+00	3.13E+00
		Fe-59	<8.16E+00	0.00E+00	8.16E+00
		Co-60	<2.70E+00	0.00E+00	2.70E+00
		Zn-65	<5.85E+00	0.00E+00	5.85E+00
		Zr-95	<6.90E+00	0.00E+00	6.90E+00
		Nb-95	<4.86E+00	0.00E+00	4.86E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<3.36E+00	0.00E+00	3.36E+00
		BaLa-140	<9.24E+00	0.00E+00	9.24E+00
		Be-7	<2.89E+01	0.00E+00	2.89E+01
		K-40	6.70E+01	3.24E+01	3.99E+01
		H3SW	<-5.7E+01	0.00E+00	1.91E+02
Sample ID: 590546	Sample Dates: 4/25/2023 - 5/30/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.38E+00	0.00E+00	2.38E+00
		Co-58	<2.74E+00	0.00E+00	2.74E+00
		Fe-59	<5.36E+00	0.00E+00	5.36E+00
		Co-60	<2.12E+00	0.00E+00	2.12E+00
		Zn-65	<5.07E+00	0.00E+00	5.07E+00
		Zr-95	<4.96E+00	0.00E+00	4.96E+00
		Nb-95	<3.43E+00	0.00E+00	3.43E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<2.48E+00	0.00E+00	2.48E+00
		Cs-137	<2.63E+00	0.00E+00	2.63E+00
		BaLa-140	<3.66E+00	0.00E+00	3.66E+00
		Be-7	<2.24E+01	0.00E+00	2.24E+01
		K-40	1.04E+02	3.02E+01	3.36E+01
		H3SW	<2.70E+00	0.00E+00	1.98E+02
Sample ID: 591746	Sample Dates: 5/30/2023 - 6/27/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.17E+00	0.00E+00	3.17E+00
		Co-58	<4.28E+00	0.00E+00	4.28E+00
		Fe-59	<9.09E+00	0.00E+00	9.09E+00
		Co-60	<3.03E+00	0.00E+00	3.03E+00
		Zn-65	<6.44E+00	0.00E+00	6.44E+00
		Zr-95	<9.02E+00	0.00E+00	9.02E+00
		Nb-95	<6.13E+00	0.00E+00	6.13E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.68E+00	0.00E+00	4.68E+00
		Cs-137	<4.75E+00	0.00E+00	4.75E+00
		BaLa-140	<8.57E+00	0.00E+00	8.57E+00
		Be-7	<4.38E+01	0.00E+00	4.38E+01
		K-40	6.74E+01	3.34E+01	3.28E+01
		H3SW	<-4.4E+01	0.00E+00	2.10E+02
Sample ID: 593151	Sample Dates: 6/27/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.27E+00	0.00E+00	2.27E+00
		Co-58	<2.52E+00	0.00E+00	2.52E+00
		Fe-59	<4.87E+00	0.00E+00	4.87E+00
		Co-60	<2.49E+00	0.00E+00	2.49E+00
		Zn-65	<4.91E+00	0.00E+00	4.91E+00
		Zr-95	<4.67E+00	0.00E+00	4.67E+00
		Nb-95	<3.16E+00	0.00E+00	3.16E+00
		I-131	<7.45E+00	0.00E+00	7.45E+00
		Cs-134	<2.48E+00	0.00E+00	2.48E+00
		Cs-137	<2.20E+00	0.00E+00	2.20E+00

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 41 [CONTROL - N @ 8 miles]

Sample ID: 593151	Sample Dates: 6/27/2023 - 7/25/2023	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<4.61E+00	0.00E+00	4.61E+00
		Be-7	<2.06E+01	0.00E+00	2.06E+01
		K-40	5.96E+01	2.62E+01	3.57E+01
		H3SW	<2.48E+01	0.00E+00	1.89E+02
Sample ID: 594783	Sample Dates: 7/25/2023 - 8/29/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.38E+00	0.00E+00	2.38E+00
		Co-58	<2.67E+00	0.00E+00	2.67E+00
		Fe-59	<5.06E+00	0.00E+00	5.06E+00
		Co-60	<2.27E+00	0.00E+00	2.27E+00
		Zn-65	<5.19E+00	0.00E+00	5.19E+00
		Zr-95	<4.94E+00	0.00E+00	4.94E+00
		Nb-95	<3.29E+00	0.00E+00	3.29E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.82E+00	0.00E+00	2.82E+00
		Cs-137	<2.22E+00	0.00E+00	2.22E+00
		BaLa-140	<7.64E+00	0.00E+00	7.64E+00
		Be-7	<2.39E+01	0.00E+00	2.39E+01
Sample ID: 596870	Sample Dates: 8/29/2023 - 9/26/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.04E+00	0.00E+00	2.04E+00
		Co-58	<2.30E+00	0.00E+00	2.30E+00
		Fe-59	<5.31E+00	0.00E+00	5.31E+00
		Co-60	<1.55E+00	0.00E+00	1.55E+00
		Zn-65	<4.50E+00	0.00E+00	4.50E+00
		Zr-95	<4.25E+00	0.00E+00	4.25E+00
		Nb-95	<3.26E+00	0.00E+00	3.26E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<2.22E+00	0.00E+00	2.22E+00
		Cs-137	<2.26E+00	0.00E+00	2.26E+00
		BaLa-140	<4.72E+00	0.00E+00	4.72E+00
		Be-7	<2.01E+01	0.00E+00	2.01E+01
Sample ID: 599008	Sample Dates: 9/26/2023 - 10/31/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.46E+00	0.00E+00	2.46E+00
		Co-58	<2.80E+00	0.00E+00	2.80E+00
		Fe-59	<4.81E+00	0.00E+00	4.81E+00
		Co-60	<2.24E+00	0.00E+00	2.24E+00
		Zn-65	<4.84E+00	0.00E+00	4.84E+00
		Zr-95	<4.88E+00	0.00E+00	4.88E+00
		Nb-95	<4.34E+00	0.00E+00	4.34E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.40E+00	0.00E+00	3.40E+00
		Cs-137	<2.23E+00	0.00E+00	2.23E+00
		BaLa-140	<7.92E+00	0.00E+00	7.92E+00
		Be-7	<2.41E+01	0.00E+00	2.41E+01
Sample ID: 601259	Sample Dates: 10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.13E+00	0.00E+00	2.13E+00
		Co-58	<2.19E+00	0.00E+00	2.19E+00
		Fe-59	<5.38E+00	0.00E+00	5.38E+00
		Co-60	<2.20E+00	0.00E+00	2.20E+00
		Zn-65	<4.20E+00	0.00E+00	4.20E+00
		Zr-95	<4.27E+00	0.00E+00	4.27E+00
		Nb-95	<2.49E+00	0.00E+00	2.49E+00
		I-131	<1.39E+01	0.00E+00	1.39E+01
		Cs-134	<2.52E+00	0.00E+00	2.52E+00
		Cs-137	<2.05E+00	0.00E+00	2.05E+00
		BaLa-140	<6.98E+00	0.00E+00	6.98E+00
		Be-7	<2.16E+01	0.00E+00	2.16E+01
		K-40	8.24E+01	2.53E+01	2.99E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 41 [CONTROL - N @ 8 miles]

Sample ID:	601259	Sample Dates:	10/31/2023 - 11/28/2023	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.68E+01	0.00E+00	2.02E+02
Sample ID:	602770	Sample Dates:	11/28/2023 - 12/27/2023	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.28E+00	0.00E+00	2.28E+00
				Co-58	<2.75E+00	0.00E+00	2.75E+00
				Fe-59	<4.55E+00	0.00E+00	4.55E+00
				Co-60	<2.11E+00	0.00E+00	2.11E+00
				Zn-65	<4.71E+00	0.00E+00	4.71E+00
				Zr-95	<4.64E+00	0.00E+00	4.64E+00
				Nb-95	<3.48E+00	0.00E+00	3.48E+00
				I-131	<1.27E+01	0.00E+00	1.27E+01
				Cs-134	<2.58E+00	0.00E+00	2.58E+00
				Cs-137	<2.04E+00	0.00E+00	2.04E+00
				BaLa-140	<7.89E+00	0.00E+00	7.89E+00
				Be-7	<2.26E+01	0.00E+00	2.26E+01
				K-40	7.17E+01	2.91E+01	4.03E+01
				H3SW	<-7.1E+01	0.00E+00	2.10E+02

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 1 [CONTROL - ESE @ 24.4 miles]

TLD RING TLD_CTRL

Sample ID:	582838	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	18.35
Sample ID:	587642	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	18.95
Sample ID:	592079	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	15.67
Sample ID:	597727	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	19.32

Sample Point 2 [INDICATOR - S @ 0.2 miles]

TLD RING TLD_INNER

Sample ID:	582848	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.33
Sample ID:	587652	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.37
Sample ID:	592089	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.62
Sample ID:	597737	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.64

Sample Point 3 [INDICATOR - N @ 0.5 miles]

TLD RING TLD_INNER

Sample ID:	582859	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	17.25
Sample ID:	587663	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	16.19
Sample ID:	592100	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.15
Sample ID:	597748	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.02

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

TLD RING TLD_INNER

Sample ID:	582870	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	12.60
Sample ID:	587674	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	13.58
Sample ID:	592111	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	11.44

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 4 [INDICATOR - ESE @ 0.4 miles]

TLD RING TLD_INNER

Sample ID:	597759	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	12.97

Sample Point 5 [INDICATOR - ENE @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	582871	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	14.76
Sample ID:	587675	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.17
Sample ID:	592112	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.66
Sample ID:	597760	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.09

Sample Point 6 [INDICATOR - SSW @ 0.2 miles]

TLD RING TLD_INNER

Sample ID:	582874	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.66
Sample ID:	587678	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.68
Sample ID:	592115	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.44
Sample ID:	597763	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.40

Sample Point 7 [INDICATOR - ESE @ 6.4 miles]

TLD RING TLD_OUTER

Sample ID:	582877	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.23
Sample ID:	587681	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.48
Sample ID:	592118	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.72
Sample ID:	597766	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.30

Sample Point 9 [INDICATOR - S @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582880	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.44
Sample ID:	587684	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.17
Sample ID:	592121	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	10.63
Sample ID:	597769	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	14.82

Sample Point 10 [INDICATOR - WSW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582839	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.51
Sample ID:	587643	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.09
Sample ID:	592080	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	11.11
Sample ID:	597728	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	14.91

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 11 [INDICATOR - SW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582840	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	12.44
Sample ID:	587644	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	12.50
Sample ID:	592081	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	11.88
Sample ID:	597729	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	12.96

Sample Point 13 [INDICATOR - W @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	587645	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.26
Sample ID:	592082	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.80
Sample ID:	597730	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.46

Sample Point 14 [INDICATOR - WNW @ 0.8 miles]

TLD RING TLD_INNER

Sample ID:	582842	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	20.12
Sample ID:	587646	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.63
Sample ID:	592083	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	18.98
Sample ID:	597731	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	20.45

Sample Point 15 [INDICATOR - NW @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	582843	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.38
Sample ID:	587647	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.20
Sample ID:	592084	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.35
Sample ID:	597732	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	15.25

Sample Point 16 [INDICATOR - NNW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582844	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.34
Sample ID:	587648	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.68
Sample ID:	592085	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.39
Sample ID:	597733	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.67

Sample Point 17 [INDICATOR - N @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	582845	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	18.63
Sample ID:	587649	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	18.24
Sample ID:	592086	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	15.24

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 17 [INDICATOR - N @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	597734	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	19.37

Sample Point 18 [INDICATOR - SE @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	582846	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	17.90

Sample ID:	587650	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.66

Sample ID:	592087	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	15.92

Sample ID:	597735	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	19.79

Sample Point 19 [INDICATOR - E @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582847	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	14.87

Sample ID:	587651	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.68

Sample ID:	592088	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.57

Sample ID:	597736	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	15.82

Sample Point 20 [INDICATOR - ENE @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582849	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.53

Sample ID:	587653	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.54

Sample ID:	592090	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.75

Sample ID:	597738	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.28

Sample Point 21 [INDICATOR - NE @ 1.4 miles]

TLD RING TLD_INNER

Sample ID:	582850	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	14.34

Sample ID:	587654	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.05

Sample ID:	592091	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	13.51

Sample ID:	597739	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	14.96

Sample Point 22 [INDICATOR - NNE @ 1.7 miles]

TLD RING TLD_INNER

Sample ID:	582851	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.20

Sample ID:	587655	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.79

Sample ID:	592092	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	13.89

Sample ID:	597740	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	15.81

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 23 [INDICATOR - ESE @ 1 miles]

TLD RING TLD_INNER

Sample ID:	582852	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.70
Sample ID:	587656	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	16.97
Sample ID:	592093	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.11
Sample ID:	597741	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.46

Sample Point 24 [INDICATOR - NW @ 4.6 miles]

TLD RING TLD_OUTER

Sample ID:	582853	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	18.88
Sample ID:	587657	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	18.37
Sample ID:	592094	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	16.02
Sample ID:	597742	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	18.01

Sample Point 25 [INDICATOR - NNW @ 4 miles]

TLD RING TLD_OUTER

Sample ID:	582854	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.16
Sample ID:	587658	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.81
Sample ID:	592095	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	13.18
Sample ID:	597743	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.71

Sample Point 26 [INDICATOR - N @ 5 miles]

TLD RING TLD_OUTER

Sample ID:	582855	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.61
Sample ID:	587659	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	14.34
Sample ID:	592096	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.50
Sample ID:	597744	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.25

Sample Point 27 [INDICATOR - NNE @ 5.4 miles]

TLD RING TLD_OUTER

Sample ID:	582856	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.55
Sample ID:	587660	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	13.52
Sample ID:	592097	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	12.23
Sample ID:	597745	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	15.57

Sample Point 28 [INDICATOR - NE @ 4.3 miles]

TLD RING TLD_OUTER

Sample ID:	582857	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	18.51
Sample ID:	587661	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	19.01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 28 [INDICATOR - NE @ 4.3 miles]

TLD RING TLD_OUTER

Sample ID:	592098	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	16.84
Sample ID:	597746	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	21.78

Sample Point 29 [INDICATOR - ENE @ 4 miles]

TLD RING TLD_OUTER

Sample ID:	582858	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.89
Sample ID:	587662	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	12.99
Sample ID:	592099	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	10.87
Sample ID:	597747	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	15.47

Sample Point 30 [INDICATOR - E @ 4.4 miles]

TLD RING TLD_OUTER

Sample ID:	582860	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.79
Sample ID:	587664	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.90
Sample ID:	592101	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.68
Sample ID:	597749	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	18.38

Sample Point 31 [INDICATOR - ESE @ 4.6 miles]

TLD RING TLD_OUTER

Sample ID:	582861	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.42
Sample ID:	587665	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.84
Sample ID:	592102	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.20
Sample ID:	597750	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	18.00

Sample Point 32 [INDICATOR - SE @ 4 miles]

TLD RING TLD_OUTER

Sample ID:	582862	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.66
Sample ID:	587666	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	15.99
Sample ID:	592103	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.16
Sample ID:	597751	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.91

Sample Point 33 [INDICATOR - SSE @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	582863	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	18.14
Sample ID:	587667	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.87
Sample ID:	592104	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	15.29
Sample ID:	597752	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	19.39

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 34 [INDICATOR - S @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	582864	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	12.92
Sample ID:	587668	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	12.23
Sample ID:	592105	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	10.52
Sample ID:	597753	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	13.54

Sample Point 35 [INDICATOR - SSW @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	582865	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	22.47
Sample ID:	587669	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	23.04
Sample ID:	592106	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	19.44
Sample ID:	597754	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	23.72

Sample Point 36 [INDICATOR - SW @ 5 miles]

TLD RING TLD_OUTER

Sample ID:	582866	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	20.88
Sample ID:	587670	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	20.71
Sample ID:	592107	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	18.45
Sample ID:	597755	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	23.80

Sample Point 37 [INDICATOR - WSW @ 5 miles]

TLD RING TLD_OUTER

Sample ID:	582867	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	22.93
Sample ID:	587671	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	22.43
Sample ID:	592108	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	19.38
Sample ID:	597756	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	25.09

Sample Point 38 [INDICATOR - W @ 4.9 miles]

TLD RING TLD_OUTER

Sample ID:	582868	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.32
Sample ID:	587672	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	16.92
Sample ID:	592109	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.32
Sample ID:	597757	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.10

Sample Point 39 [INDICATOR - WNW @ 5.1 miles]

TLD RING TLD_OUTER

Sample ID:	582869	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	16.45
Sample ID:	587673	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.05

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 39 [INDICATOR - WNW @ 5.1 miles]

TLD RING TLD_OUTER

Sample ID:	592110	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	13.76
Sample ID:	597758	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	17.56

Sample Point 55 [INDICATOR - SSE @ 0.2 miles]

TLD RING TLD_INNER

Sample ID:	582872	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.92
Sample ID:	587676	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	17.13
Sample ID:	592113	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	14.10
Sample ID:	597761	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	18.22

Sample Point 56 [INDICATOR - NNW @ 0.4 miles]

TLD RING TLD_INNER

Sample ID:	582873	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	15.31
Sample ID:	587677	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	16.21
Sample ID:	592114	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	13.39
Sample ID:	597762	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	16.39

Sample Point 61 [INDICATOR - WSW @ 0.3 miles]

TLD RING TLD_INNER

Sample ID:	582875	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	21.29
Sample ID:	587679	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	20.88
Sample ID:	592116	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	18.23
Sample ID:	597764	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	22.58

Sample Point 65 [INDICATOR - WNW @ 0.3 miles]

TLD RING TLD_INNER

Sample ID:	582876	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	21.51
Sample ID:	587680	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	20.37
Sample ID:	592117	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	18.35
Sample ID:	597765	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	21.41

Sample Point 84 [INDICATOR - SSE @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	582878	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	13.23
Sample ID:	587682	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	12.28
Sample ID:	592119	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	10.25
Sample ID:	597767	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	13.18

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 85 [INDICATOR - SSW @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	582879	Sample Dates:	1/12/2023 - 4/12/2023	Nuclide	Activity
				mR/Std Qtr	12.17
Sample ID:	587683	Sample Dates:	4/12/2023 - 7/13/2023	Nuclide	Activity
				mR/Std Qtr	12.73
Sample ID:	592120	Sample Dates:	7/13/2023 - 10/10/2023	Nuclide	Activity
				mR/Std Qtr	10.81
Sample ID:	597768	Sample Dates:	10/10/2023 - 1/11/2024	Nuclide	Activity
				mR/Std Qtr	12.60

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 50 [INDICATOR - SSE @ 0 miles]

Sample ID:	589973	Sample Dates:	4/26/2023 - 4/26/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.12E+01	0.00E+00	3.12E+01
					Co-58	<2.75E+01	0.00E+00	2.75E+01
					Fe-59	<5.52E+01	0.00E+00	5.52E+01
					Co-60	<3.46E+01	0.00E+00	3.46E+01
					Zn-65	<6.03E+01	0.00E+00	6.03E+01
					Zr-95	<4.77E+01	0.00E+00	4.77E+01
					Nb-95	<2.93E+01	0.00E+00	2.93E+01
					I-131	<2.86E+01	0.00E+00	2.86E+01
					Cs-134	<3.39E+01	0.00E+00	3.39E+01
					Cs-137	<2.76E+01	0.00E+00	2.76E+01
					BaLa-140	<2.37E+01	0.00E+00	2.37E+01
					Be-7	7.98E+02	2.60E+02	3.45E+02
					K-40	4.91E+03	7.34E+02	3.65E+02
Sample ID:	590589	Sample Dates:	5/16/2023 - 5/16/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.55E+01	0.00E+00	2.55E+01
					Co-58	<3.17E+01	0.00E+00	3.17E+01
					Fe-59	<6.50E+01	0.00E+00	6.50E+01
					Co-60	<3.47E+01	0.00E+00	3.47E+01
					Zn-65	<5.11E+01	0.00E+00	5.11E+01
					Zr-95	<4.27E+01	0.00E+00	4.27E+01
					Nb-95	<3.52E+01	0.00E+00	3.52E+01
					I-131	<3.33E+01	0.00E+00	3.33E+01
					Cs-134	<3.49E+01	0.00E+00	3.49E+01
					Cs-137	<3.46E+01	0.00E+00	3.46E+01
					BaLa-140	<3.93E+01	0.00E+00	3.93E+01
					Be-7	4.87E+02	2.55E+02	3.82E+02
					K-40	4.09E+03	7.30E+02	6.28E+02
Sample ID:	590603	Sample Dates:	6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.71E+01	0.00E+00	1.71E+01
					Co-58	<1.39E+01	0.00E+00	1.39E+01
					Fe-59	<3.61E+01	0.00E+00	3.61E+01
					Co-60	<1.96E+01	0.00E+00	1.96E+01
					Zn-65	<2.99E+01	0.00E+00	2.99E+01
					Zr-95	<3.15E+01	0.00E+00	3.15E+01
					Nb-95	<1.76E+01	0.00E+00	1.76E+01
					I-131	<1.71E+01	0.00E+00	1.71E+01
					Cs-134	<1.78E+01	0.00E+00	1.78E+01
					Cs-137	<1.80E+01	0.00E+00	1.80E+01
					BaLa-140	<1.73E+01	0.00E+00	1.73E+01
					Be-7	7.18E+02	1.68E+02	1.80E+02
					K-40	4.21E+03	5.61E+02	2.55E+02
Sample ID:	592043	Sample Dates:	7/6/2023 - 7/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.25E+01	0.00E+00	3.25E+01
					Co-58	<4.45E+01	0.00E+00	4.45E+01
					Fe-59	<7.68E+01	0.00E+00	7.68E+01
					Co-60	<4.16E+01	0.00E+00	4.16E+01
					Zn-65	<9.77E+01	0.00E+00	9.77E+01
					Zr-95	<5.75E+01	0.00E+00	5.75E+01
					Nb-95	<3.13E+01	0.00E+00	3.13E+01
					I-131	<4.71E+01	0.00E+00	4.71E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 50 [INDICATOR - SSE @ 0 miles]

Sample ID:	592043	Sample Dates:	7/6/2023 - 7/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Cs-134	<4.46E+01	0.00E+00	4.46E+01
					Cs-137	<4.08E+01	0.00E+00	4.08E+01
					BaLa-140	<3.38E+01	0.00E+00	3.38E+01
					Be-7	5.02E+02	2.61E+02	3.64E+02
					K-40	3.65E+03	7.68E+02	5.11E+02

Sample ID:	593497	Sample Dates:	8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.65E+01	0.00E+00	3.65E+01
					Co-58	<3.20E+01	0.00E+00	3.20E+01
					Fe-59	<5.24E+01	0.00E+00	5.24E+01
					Co-60	<3.70E+01	0.00E+00	3.70E+01
					Zn-65	<4.56E+01	0.00E+00	4.56E+01
					Zr-95	<4.68E+01	0.00E+00	4.68E+01
					Nb-95	<3.08E+01	0.00E+00	3.08E+01
					I-131	<2.53E+01	0.00E+00	2.53E+01
					Cs-134	<3.63E+01	0.00E+00	3.63E+01
					Cs-137	<2.99E+01	0.00E+00	2.99E+01
					BaLa-140	<3.34E+01	0.00E+00	3.34E+01
					Be-7	9.09E+02	3.27E+02	4.24E+02
					K-40	4.45E+03	8.12E+02	3.15E+02

Sample ID:	595220	Sample Dates:	9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.61E+01	0.00E+00	2.61E+01
					Co-58	<2.21E+01	0.00E+00	2.21E+01
					Fe-59	<4.47E+01	0.00E+00	4.47E+01
					Co-60	<2.75E+01	0.00E+00	2.75E+01
					Zn-65	<4.98E+01	0.00E+00	4.98E+01
					Zr-95	<4.84E+01	0.00E+00	4.84E+01
					Nb-95	<2.42E+01	0.00E+00	2.42E+01
					I-131	<2.64E+01	0.00E+00	2.64E+01
					Cs-134	<3.04E+01	0.00E+00	3.04E+01
					Cs-137	<3.17E+01	0.00E+00	3.17E+01
					BaLa-140	<1.88E+01	0.00E+00	1.88E+01
					Be-7	6.93E+02	2.23E+02	2.92E+02
					K-40	4.21E+03	4.85E+02	2.27E+02

Sample ID:	597533	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<4.55E+01	0.00E+00	4.55E+01
					Co-58	<8.22E+00	0.00E+00	8.22E+00
					Fe-59	<7.51E+01	0.00E+00	7.51E+01
					Co-60	<4.08E+01	0.00E+00	4.08E+01
					Zn-65	<1.28E+02	0.00E+00	1.28E+02
					Zr-95	<5.67E+01	0.00E+00	5.67E+01
					Nb-95	<5.18E+01	0.00E+00	5.18E+01
					I-131	<4.34E+01	0.00E+00	4.34E+01
					Cs-134	<5.10E+01	0.00E+00	5.10E+01
					Cs-137	<6.08E+01	0.00E+00	6.08E+01
					BaLa-140	<1.66E+01	0.00E+00	1.66E+01
					Be-7	9.63E+02	3.28E+02	3.19E+02
					K-40	4.14E+03	9.20E+02	1.19E+02

Sample Point 52 [CONTROL - W @ 10 miles]

Sample ID:	589974	Sample Dates:	4/26/2023 - 4/26/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.55E+01	0.00E+00	2.55E+01
					Co-58	<2.63E+01	0.00E+00	2.63E+01
					Fe-59	<4.90E+01	0.00E+00	4.90E+01
					Co-60	<2.98E+01	0.00E+00	2.98E+01
					Zn-65	<4.50E+01	0.00E+00	4.50E+01
					Zr-95	<3.30E+01	0.00E+00	3.30E+01
					Nb-95	<2.02E+01	0.00E+00	2.02E+01
					I-131	<2.39E+01	0.00E+00	2.39E+01
					Cs-134	<2.76E+01	0.00E+00	2.76E+01
					Cs-137	<3.07E+01	0.00E+00	3.07E+01
					BaLa-140	<2.49E+01	0.00E+00	2.49E+01
					Be-7	1.82E+02	1.72E+02	2.75E+02
					K-40	3.22E+03	5.56E+02	4.00E+02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 52 [CONTROL - W @ 10 miles]

Sample ID: 590590	Sample Dates: 5/16/2023 - 5/16/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.19E+01	0.00E+00	3.19E+01
			Co-58	<3.09E+01	0.00E+00	3.09E+01
			Fe-59	<5.57E+01	0.00E+00	5.57E+01
			Co-60	<3.54E+01	0.00E+00	3.54E+01
			Zn-65	<7.08E+01	0.00E+00	7.08E+01
			Zr-95	<5.36E+01	0.00E+00	5.36E+01
			Nb-95	<3.66E+01	0.00E+00	3.66E+01
			I-131	<3.57E+01	0.00E+00	3.57E+01
			Cs-134	<3.78E+01	0.00E+00	3.78E+01
			Cs-137	7.39E+01	3.87E+01	5.62E+01
			BaLa-140	<4.51E+01	0.00E+00	4.51E+01
			Be-7	1.14E+03	3.75E+02	5.08E+02
			K-40	4.01E+03	7.79E+02	6.73E+02
Sample ID: 590604	Sample Dates: 6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.30E+01	0.00E+00	1.30E+01
			Co-58	<1.34E+01	0.00E+00	1.34E+01
			Fe-59	<2.18E+01	0.00E+00	2.18E+01
			Co-60	<1.34E+01	0.00E+00	1.34E+01
			Zn-65	<2.66E+01	0.00E+00	2.66E+01
			Zr-95	<1.81E+01	0.00E+00	1.81E+01
			Nb-95	<9.88E+00	0.00E+00	9.88E+00
			I-131	<1.26E+01	0.00E+00	1.26E+01
			Cs-134	<1.27E+01	0.00E+00	1.27E+01
			Cs-137	<1.65E+01	0.00E+00	1.65E+01
			BaLa-140	<1.03E+01	0.00E+00	1.03E+01
			Be-7	3.07E+02	7.80E+01	1.18E+02
			K-40	3.27E+03	4.08E+02	1.94E+01
Sample ID: 592044	Sample Dates: 7/6/2023 - 7/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<1.73E+01	0.00E+00	1.73E+01
			Co-58	<2.29E+01	0.00E+00	2.29E+01
			Fe-59	<3.85E+01	0.00E+00	3.85E+01
			Co-60	<1.54E+01	0.00E+00	1.54E+01
			Zn-65	<2.70E+01	0.00E+00	2.70E+01
			Zr-95	<2.74E+01	0.00E+00	2.74E+01
			Nb-95	<1.69E+01	0.00E+00	1.69E+01
			I-131	<1.99E+01	0.00E+00	1.99E+01
			Cs-134	<2.09E+01	0.00E+00	2.09E+01
			Cs-137	3.36E+01	1.79E+01	2.62E+01
			BaLa-140	<2.67E+01	0.00E+00	2.67E+01
			Be-7	5.80E+02	1.29E+02	1.60E+02
			K-40	2.82E+03	4.43E+02	3.11E+02
Sample ID: 593498	Sample Dates: 8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.66E+01	0.00E+00	2.66E+01
			Co-58	<1.74E+01	0.00E+00	1.74E+01
			Fe-59	<5.45E+01	0.00E+00	5.45E+01
			Co-60	<2.37E+01	0.00E+00	2.37E+01
			Zn-65	<4.73E+01	0.00E+00	4.73E+01
			Zr-95	<3.01E+01	0.00E+00	3.01E+01
			Nb-95	<2.73E+01	0.00E+00	2.73E+01
			I-131	<1.87E+01	0.00E+00	1.87E+01
			Cs-134	<2.34E+01	0.00E+00	2.34E+01
			Cs-137	4.95E+01	2.85E+01	4.19E+01
			BaLa-140	<1.69E+01	0.00E+00	1.69E+01
			Be-7	1.84E+03	3.35E+02	2.93E+02
			K-40	2.89E+03	5.25E+02	2.26E+02
Sample ID: 595221	Sample Dates: 9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.48E+01	0.00E+00	2.48E+01
			Co-58	<2.72E+01	0.00E+00	2.72E+01
			Fe-59	<5.34E+01	0.00E+00	5.34E+01
			Co-60	<2.31E+01	0.00E+00	2.31E+01
			Zn-65	<6.59E+01	0.00E+00	6.59E+01
			Zr-95	<4.40E+01	0.00E+00	4.40E+01
			Nb-95	<2.90E+01	0.00E+00	2.90E+01

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 52 [CONTROL - W @ 10 miles]

Sample ID:	595221	Sample Dates:	9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<3.20E+01	0.00E+00	3.20E+01
					Cs-134	<2.62E+01	0.00E+00	2.62E+01
					Cs-137	1.93E+02	4.30E+01	4.44E+01
					BaLa-140	<1.61E+01	0.00E+00	1.61E+01
					Be-7	3.06E+03	4.66E+02	3.95E+02
					K-40	3.16E+03	5.60E+02	3.76E+02

Sample ID:	597534	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.07E+01	0.00E+00	2.07E+01
					Co-58	<1.72E+01	0.00E+00	1.72E+01
					Fe-59	<3.83E+01	0.00E+00	3.83E+01
					Co-60	<2.33E+01	0.00E+00	2.33E+01
					Zn-65	<4.47E+01	0.00E+00	4.47E+01
					Zr-95	<3.24E+01	0.00E+00	3.24E+01
					Nb-95	<1.74E+01	0.00E+00	1.74E+01
					I-131	<2.09E+01	0.00E+00	2.09E+01
					Cs-134	<2.03E+01	0.00E+00	2.03E+01
					Cs-137	1.37E+02	2.43E+01	2.61E+01
					BaLa-140	<2.51E+01	0.00E+00	2.51E+01
					Be-7	1.88E+03	2.89E+02	2.23E+02
					K-40	2.82E+03	4.52E+02	2.28E+02

Sample Point 86 [INDICATOR - NNE @ 0 miles]

Sample ID:	589972	Sample Dates:	4/26/2023 - 4/26/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.69E+01	0.00E+00	2.69E+01
					Co-58	<3.47E+01	0.00E+00	3.47E+01
					Fe-59	<5.34E+01	0.00E+00	5.34E+01
					Co-60	<2.75E+01	0.00E+00	2.75E+01
					Zn-65	<6.62E+01	0.00E+00	6.62E+01
					Zr-95	<5.09E+01	0.00E+00	5.09E+01
					Nb-95	<2.83E+01	0.00E+00	2.83E+01
					I-131	<3.02E+01	0.00E+00	3.02E+01
					Cs-134	<4.64E+01	0.00E+00	4.64E+01
					Cs-137	6.65E+01	3.39E+01	4.94E+01
					BaLa-140	<3.07E+01	0.00E+00	3.07E+01
					Be-7	6.63E+02	2.47E+02	3.37E+02
					K-40	4.19E+03	7.02E+02	4.65E+02

Sample ID:	590591	Sample Dates:	5/16/2023 - 5/16/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.61E+01	0.00E+00	2.61E+01
					Co-58	<2.08E+01	0.00E+00	2.08E+01
					Fe-59	<4.46E+01	0.00E+00	4.46E+01
					Co-60	<2.93E+01	0.00E+00	2.93E+01
					Zn-65	<5.71E+01	0.00E+00	5.71E+01
					Zr-95	<3.49E+01	0.00E+00	3.49E+01
					Nb-95	<2.53E+01	0.00E+00	2.53E+01
					I-131	<2.61E+01	0.00E+00	2.61E+01
					Cs-134	<2.92E+01	0.00E+00	2.92E+01
					Cs-137	1.68E+02	3.70E+01	3.76E+01
					BaLa-140	<1.82E+01	0.00E+00	1.82E+01
					Be-7	9.89E+02	2.43E+02	2.83E+02
					K-40	4.22E+03	6.14E+02	1.87E+02

Sample ID:	590598	Sample Dates:	6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.33E+01	0.00E+00	1.33E+01
					Co-58	<1.47E+01	0.00E+00	1.47E+01
					Fe-59	<3.15E+01	0.00E+00	3.15E+01
					Co-60	<2.01E+01	0.00E+00	2.01E+01
					Zn-65	<3.26E+01	0.00E+00	3.26E+01
					Zr-95	<2.75E+01	0.00E+00	2.75E+01
					Nb-95	<1.38E+01	0.00E+00	1.38E+01
					I-131	<1.49E+01	0.00E+00	1.49E+01
					Cs-134	<1.60E+01	0.00E+00	1.60E+01
					Cs-137	6.94E+01	1.89E+01	1.97E+01
					BaLa-140	<1.49E+01	0.00E+00	1.49E+01
					Be-7	8.37E+02	1.68E+02	1.55E+02

ROBINSON Radiological Environmental Monitoring Analysis Report - 2023 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 86 [INDICATOR - NNE @ 0 miles]

Sample ID:	590598	Sample Dates:	6/6/2023 - 6/6/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					K-40	2.95E+03	4.40E+02	2.17E+02
Sample ID:	592042	Sample Dates:	7/5/2023 - 7/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.58E+01	0.00E+00	2.58E+01
					Co-58	<3.32E+01	0.00E+00	3.32E+01
					Fe-59	<5.82E+01	0.00E+00	5.82E+01
					Co-60	<2.98E+01	0.00E+00	2.98E+01
					Zn-65	<7.92E+01	0.00E+00	7.92E+01
					Zr-95	<5.78E+01	0.00E+00	5.78E+01
					Nb-95	<3.36E+01	0.00E+00	3.36E+01
					I-131	<3.50E+01	0.00E+00	3.50E+01
					Cs-134	<3.20E+01	0.00E+00	3.20E+01
					Cs-137	<3.70E+01	0.00E+00	3.70E+01
					BaLa-140	<4.94E+01	0.00E+00	4.94E+01
					Be-7	5.94E+02	2.47E+02	3.24E+02
					K-40	4.17E+03	7.85E+02	5.49E+02
Sample ID:	593496	Sample Dates:	8/1/2023 - 8/1/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.86E+01	0.00E+00	2.86E+01
					Co-58	<2.26E+01	0.00E+00	2.26E+01
					Fe-59	<3.98E+01	0.00E+00	3.98E+01
					Co-60	<3.32E+01	0.00E+00	3.32E+01
					Zn-65	<7.65E+01	0.00E+00	7.65E+01
					Zr-95	<5.44E+01	0.00E+00	5.44E+01
					Nb-95	<2.56E+01	0.00E+00	2.56E+01
					I-131	<3.19E+01	0.00E+00	3.19E+01
					Cs-134	<3.56E+01	0.00E+00	3.56E+01
					Cs-137	<2.93E+01	0.00E+00	2.93E+01
					BaLa-140	<3.27E+01	0.00E+00	3.27E+01
					Be-7	9.13E+02	2.78E+02	3.02E+02
					K-40	3.58E+03	6.96E+02	7.52E+01
Sample ID:	595219	Sample Dates:	9/5/2023 - 9/5/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.20E+01	0.00E+00	5.20E+01
					Co-58	<4.90E+01	0.00E+00	4.90E+01
					Fe-59	<5.48E+01	0.00E+00	5.48E+01
					Co-60	<5.72E+01	0.00E+00	5.72E+01
					Zn-65	<7.71E+01	0.00E+00	7.71E+01
					Zr-95	<6.79E+01	0.00E+00	6.79E+01
					Nb-95	<5.73E+01	0.00E+00	5.73E+01
					I-131	<3.96E+01	0.00E+00	3.96E+01
					Cs-134	<4.41E+01	0.00E+00	4.41E+01
					Cs-137	1.84E+02	5.79E+01	5.20E+01
					BaLa-140	<6.79E+01	0.00E+00	6.79E+01
					Be-7	1.69E+03	4.78E+02	4.83E+02
					K-40	3.34E+03	8.44E+02	1.29E+02
Sample ID:	597535	Sample Dates:	10/2/2023 - 10/2/2023	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.43E+01	0.00E+00	1.43E+01
					Co-58	<1.44E+01	0.00E+00	1.44E+01
					Fe-59	<3.80E+01	0.00E+00	3.80E+01
					Co-60	<1.94E+01	0.00E+00	1.94E+01
					Zn-65	<4.09E+01	0.00E+00	4.09E+01
					Zr-95	<3.07E+01	0.00E+00	3.07E+01
					Nb-95	<1.50E+01	0.00E+00	1.50E+01
					I-131	<1.54E+01	0.00E+00	1.54E+01
					Cs-134	<1.55E+01	0.00E+00	1.55E+01
					Cs-137	1.18E+02	2.60E+01	2.50E+01
					BaLa-140	<1.96E+01	0.00E+00	1.96E+01
					Be-7	1.96E+03	2.98E+02	2.47E+02
					K-40	2.99E+03	4.39E+02	1.68E+02

APPENDIX F

ERRATA TO PREVIOUS REPORTS

There are no errata to be appended to the
2023 H.B. Robinson Steam Electric Plant AREOR.