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May 10, 2018

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

Subject: 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
Annual Radiological Environmental Operating Report - 2017

Ladies and Gentlemen:

In accordance with Technical Specification (TS) 5.6.2 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, Duke Energy Progress, LLC, is submitting the enclosed Radiological Environmental Operating Report for 2017.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager - Regulatory Affairs, at (910) 832-2487.

Sincerely,



A handwritten signature in blue ink that reads "Mark Algham for B. Wooten" above the date "5/10/2018".

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MAT/mat

Enclosure: Annual Radiological Environmental Operating Report - 2017

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**Annual Radiological Environmental Operating
Report - 2017**



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY PROGRESS, LLC

BRUNSWICK STEAM ELECTRIC PLANT

2017



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

A	Annually
ADM	Archer Daniels Midland Chemical Company
AP	Air Particulate
AR	Air Radioiodine = Air Cartridge
AREOR	Annual Radiological Environmental Operating Report
BO	Benthic Organisms
BSEP	Brunswick Steam Electric Plant
C	Control
CR	Condition Report - Corrective Action Program
ERA	Environmental Resource Associates
EZA	Eckert & Ziegler Analytics, Inc.
FSS	Fleet Scientific Services
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
MDA	Minimum Detectable Activity
mrem	Millirem
MSL	Mean sea level
MW	megawatts
NIST	National Institute of Standards and Technology
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
SDSP	Storm Drain Stabilization Pond
SH	Shellfish
SI	Special Interest - TLDs
SW	Surface Water
TLD	Thermoluminescent Dosimeter
W	Weekly

1.0 EXECUTIVE SUMMARY

The Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, is operated by Duke Energy Progress, LLC under licenses granted by the Nuclear Regulatory Commission (NRC). Provisions of the Nuclear Regulatory Commission's Regulatory Guide 4.8, BSEP Plant Technical Specifications 5.6.2, and the BSEP Offsite Dose Calculation Manual (ODCM) establish the requirements of the Radiological Environmental Monitoring Program (REMP). This report describes the BSEP REMP and the program results for January 1, 2017, through December 31, 2017.

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 BSEP ODCM. Required analyses were performed and detection capabilities were met for the collected samples required by the ODCM other than that stated in Appendix D - Analytical Deviations (NCR # 02128415). One thousand seven hundred sixty-six samples were analyzed comprising 1,766 test results in order to compile data for the 2017 BSEP Annual Radiological Environmental Operating Report (AREOR). Based on the annual BSEP land use census, the current number of sampling sites for BSEP is sufficient.

Concentrations observed in the environment in 2017 for plant 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.

The continued operation of BSEP has not significantly contributed measurable radiation or the presence of gamma radioactivity, in the environmental media monitored. The measured concentrations of radioactivity and radiation are well within the applicable regulatory limits.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy's Brunswick Steam Electric Plant (BSEP) consists of two boiling water reactors with a design rating of 2923 megawatts (MWe) thermal. Commercial production was initiated by Unit 2 on November 3, 1975 and by Unit 1 on March 18, 1977. BSEP is located in Brunswick County, 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 site is also approximately 16 miles south of Wilmington, North Carolina.

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). It is surrounded by extensive marshes. The lower Cape Fear River is an important nursery area for shellfish and other marine species.

The local economy supports significant recreational, industrial, agricultural, and government contributions. There is well-developed recreational use of the barrier islands south and east of the site. Fishing and boating are popular activities. Commercial fishing is also an important industry in the community. Agriculture utilizes some of the land within 50 miles of the site; such as small truck farms, cattle, poultry, and row crops including corn, soybeans and tobacco. Industrial activity includes the Archer Daniels Midland (ADM) Company, a manufacturer of citric acid, located one and a half miles southeast of the plant. In conjunction with the citric acid plant is a small electrical generating station operated by Capital Power, Inc. This solid fuels-fired cogeneration facility (wood residuals, tire-derived fuel, and coal) burns alternate fuels with a rated capacity at 88 MW and provides steam to the nearby Archer Daniels Midland Company.

Although the contribution to background radiation is small, Duke Energy Progress, LLC has established the Radiological Environmental Monitoring Program (REMP) to measure the exposure pathways to man. An exposure pathway describes the source of the radiological exposure. The primary forms of radiological emissions from the plant are airborne and liquid discharge. The following pathways are monitored: external dose, ingestion of radioactive materials, and the inhalation of radioactive material. Specific methods and different environmental media are required to assess each pathway.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. A number of locations are selected as controls. Control stations are selected because they are very unlikely to be affected by the operation of the plant.

Figures 2.1-1 through 2.1-15 are maps depicting the BSEP sampling locations and the BSEP Thermoluminescent Dosimeter (TLD) monitoring locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A, 2.1-B, and 2.1-C.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

The Radiological Environmental Monitoring Program (REMP) was established in 1973 at the Brunswick Steam Electric Plant (BSEP). Radiation and radioactivity in various environmental media have been monitored for 43 years, including monitoring in excess of a year prior to commencing operation. Monitoring is also provided for control locations, which would not be impacted by operations of BSEP. Using the data from the control locations and the historical data collected prior to operation allows comparison of data collected at locations near the BSEP which could potentially be impacted by its operations.

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 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. Tables 2.2-B and 2.2-C list 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 the land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR 50. Results are shown in Table 3.8-A and 3.8-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 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 (reference 6.8):

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

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* 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 ODCMs and are listed in Table 2.2-D.

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

BSEP Environmental Sampling Locations - One mile radius

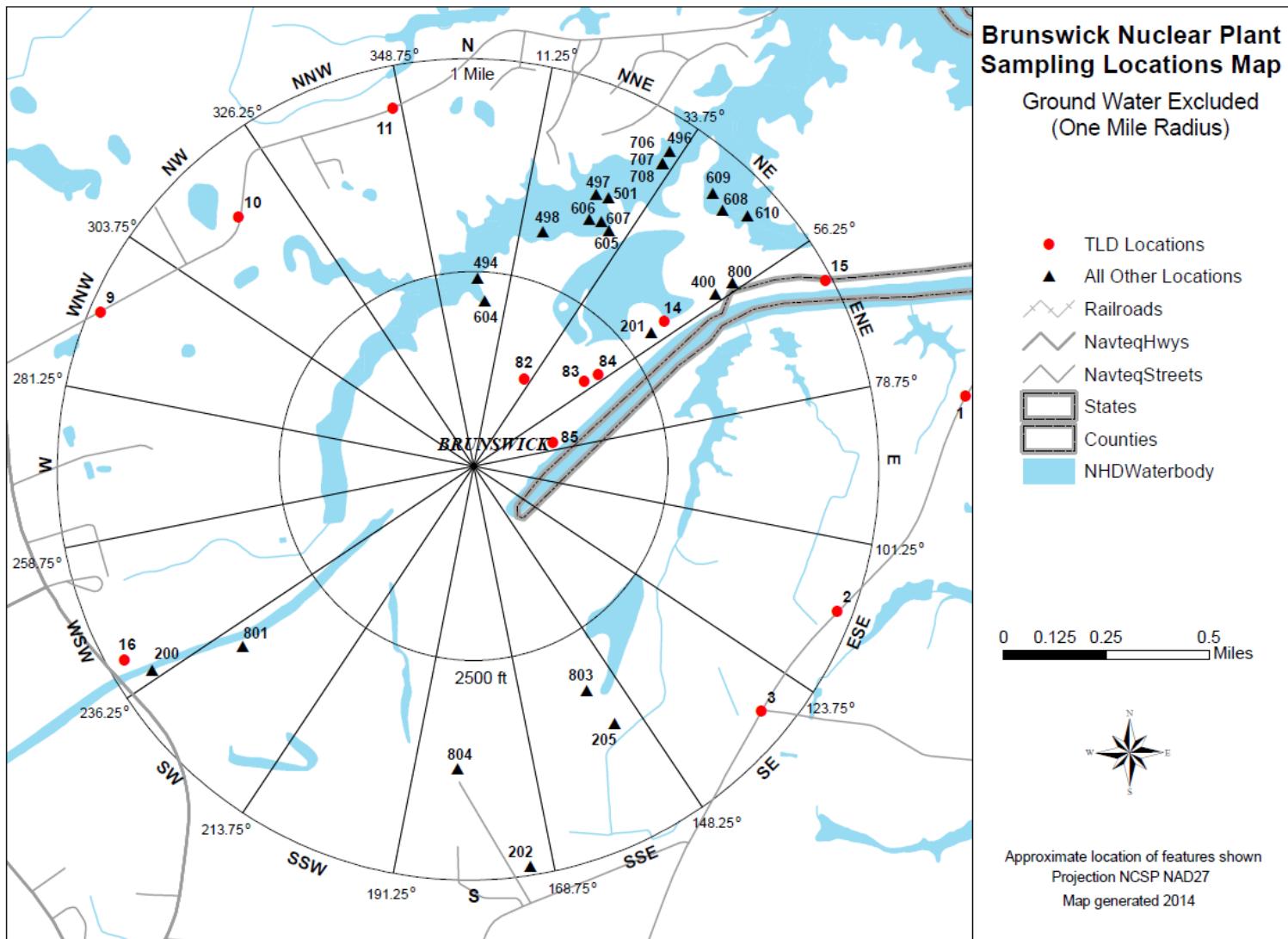


Figure 2.1-2

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

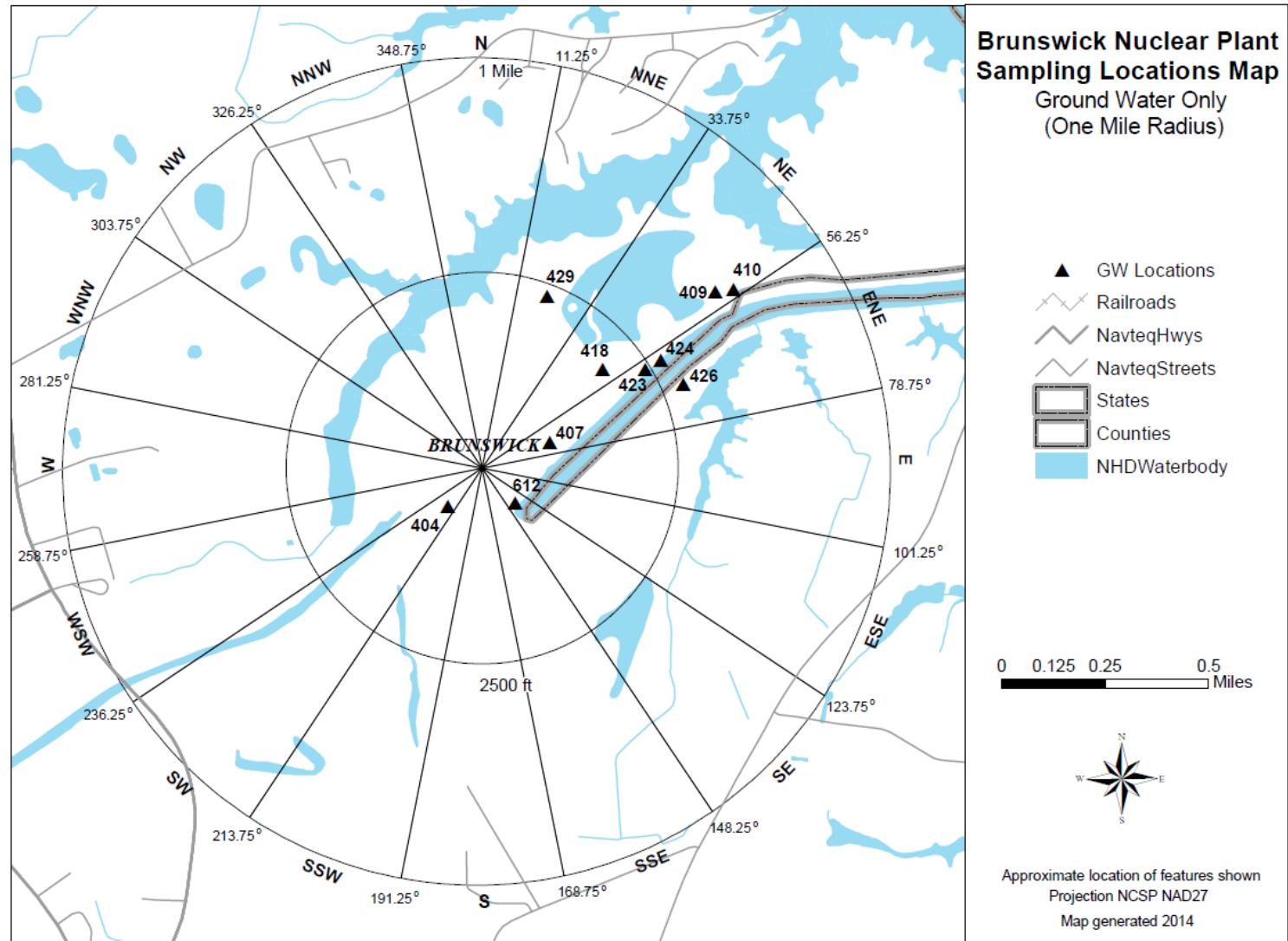


Figure 2.1-3
BSEP Environmental Sample Locations - Ten mile radius

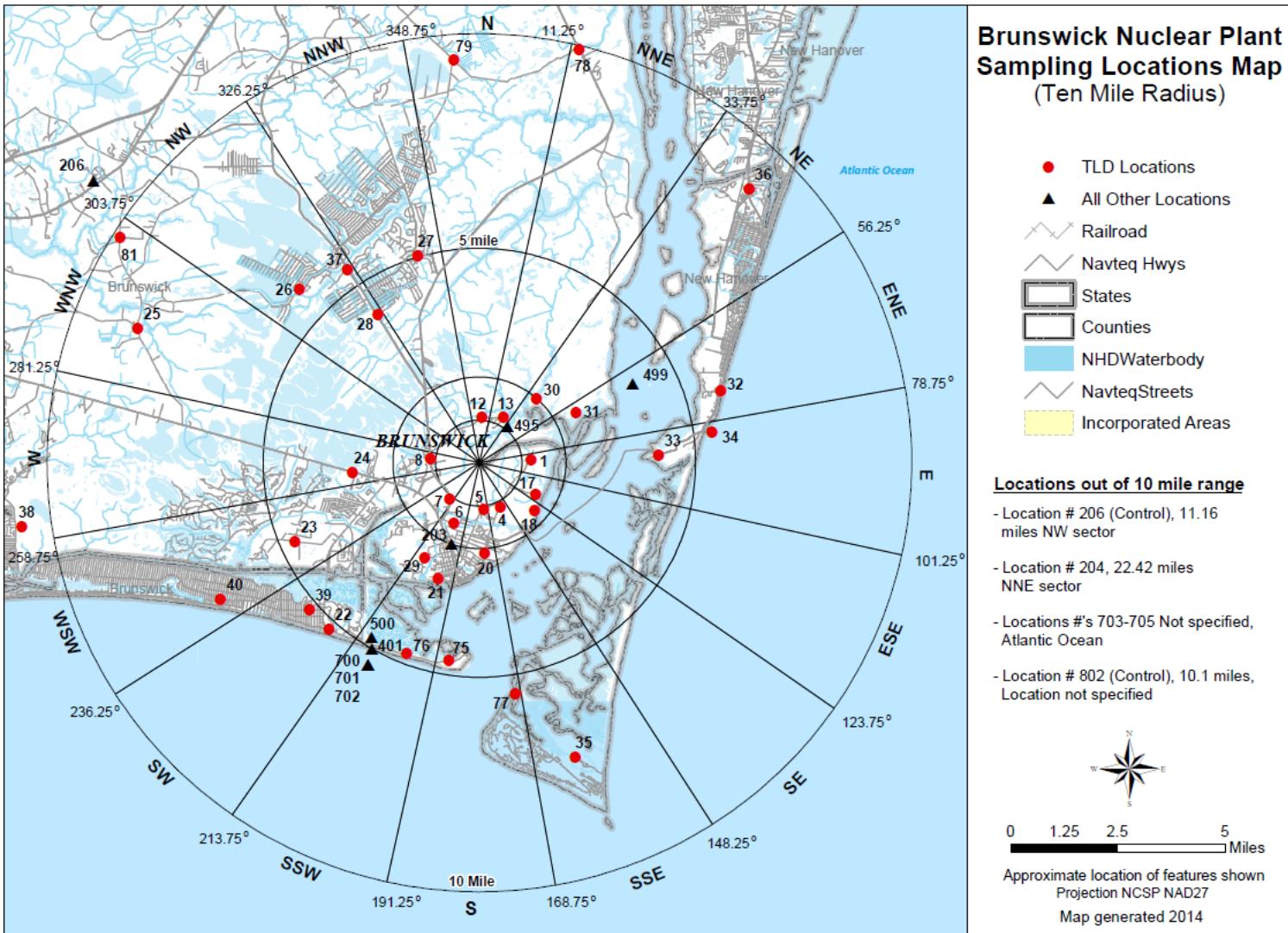


Figure 2.1-4

**BSEP Radiological Environmental Sampling Locations
Independent Spent Fuel Storage Installation (ISFSI) TLDs**



Figure 2.1-5
Radiological Environmental Sampling Locations

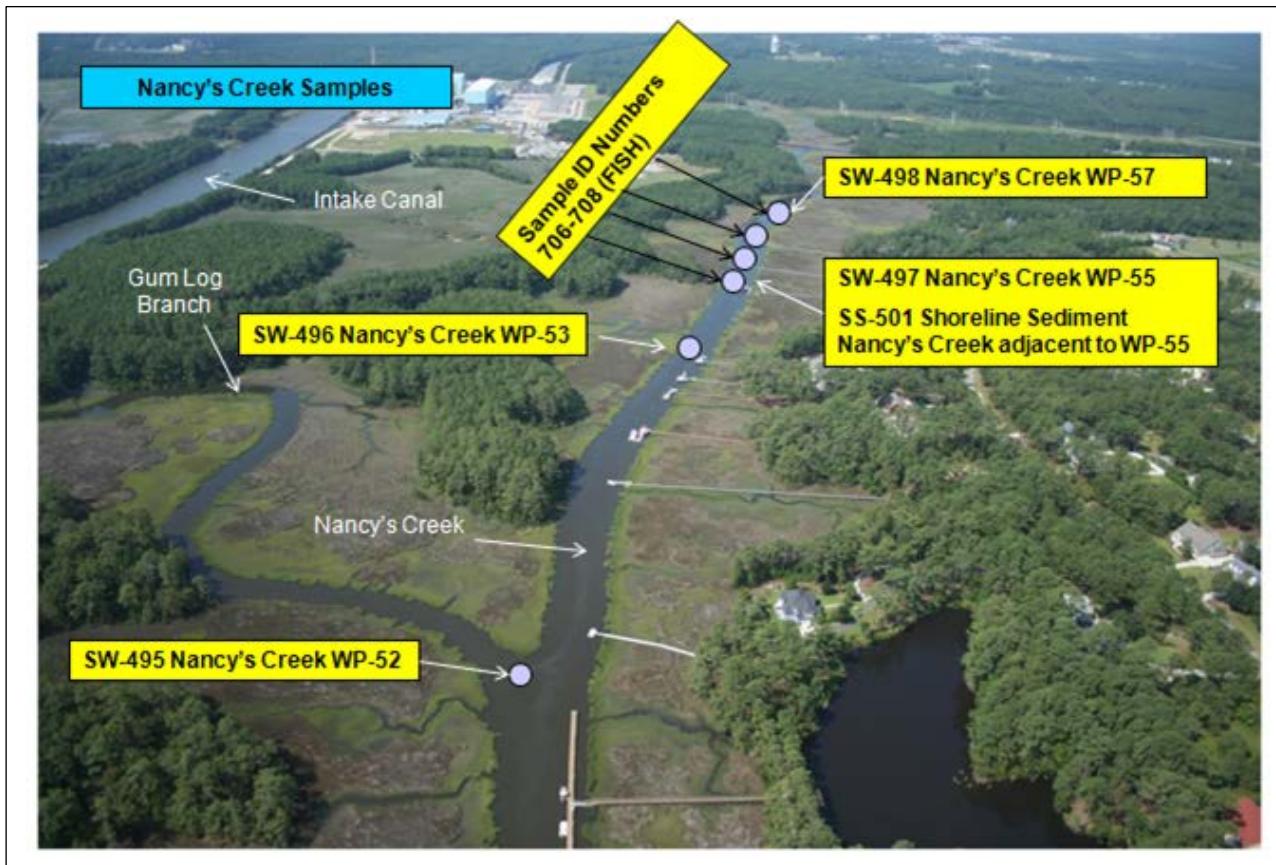


Figure 2.1-6
Radiological Environmental Sampling Locations (Continued)

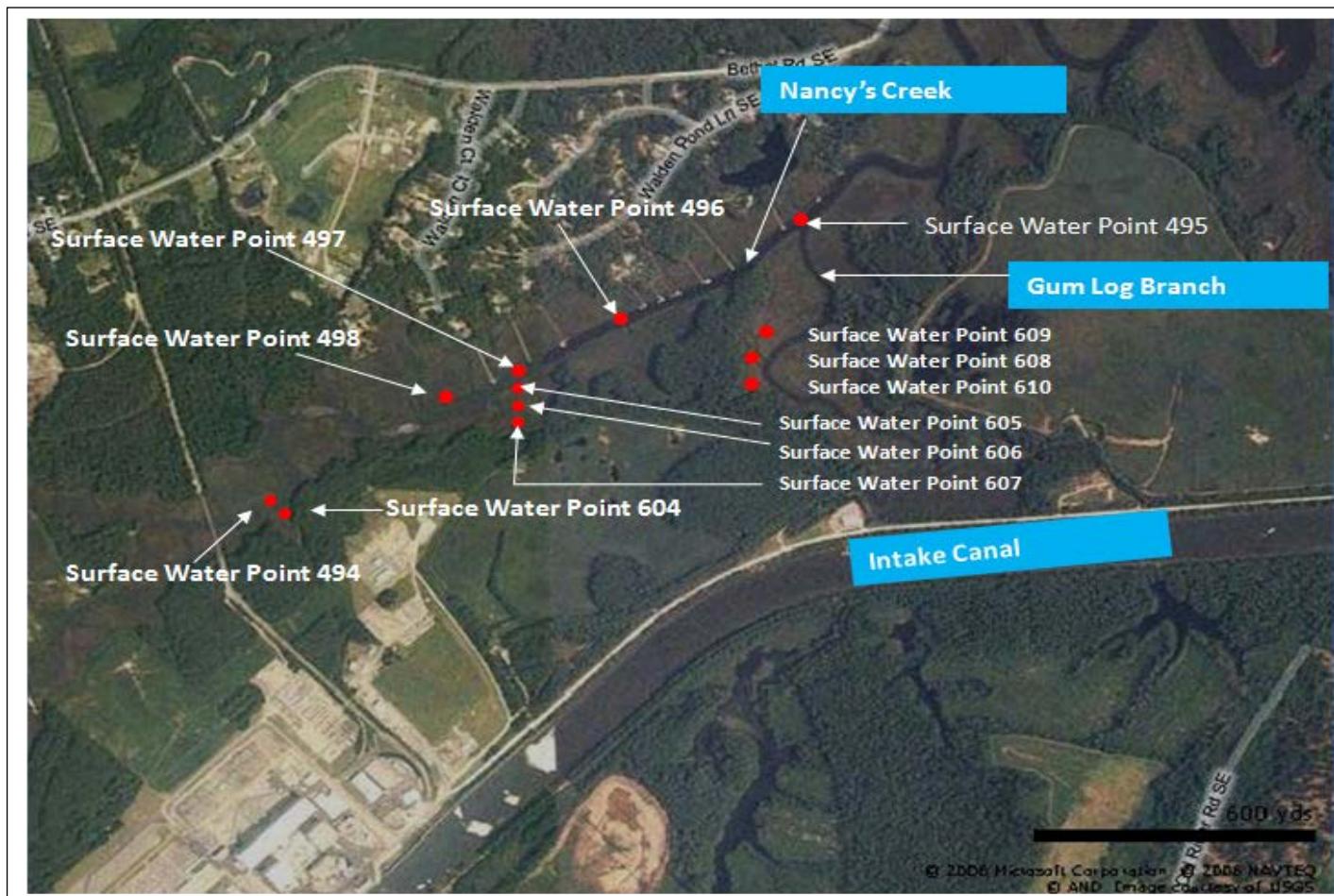


Figure 2.1-7
Radiological Environmental Sampling Locations (Continued)

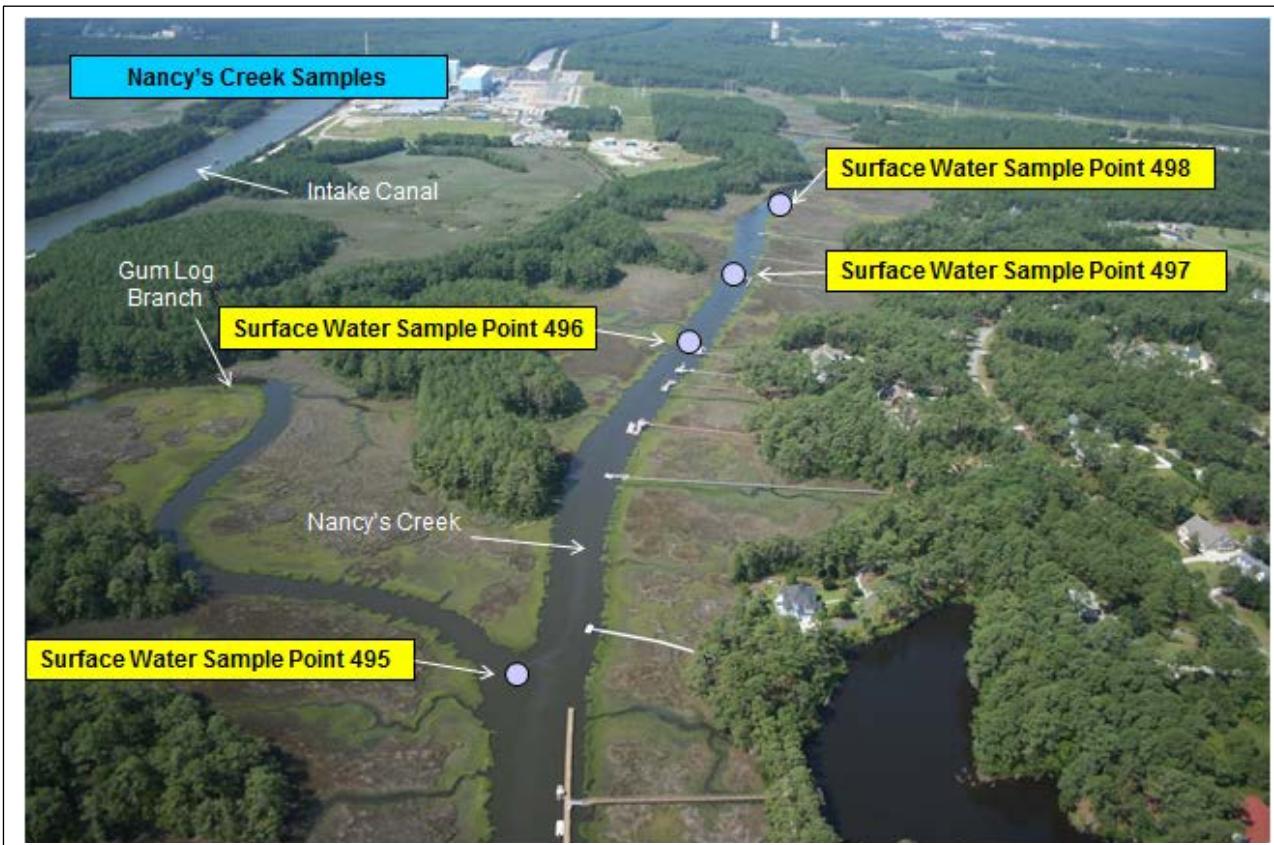


Figure 2.1-8
Radiological Environmental Sampling Locations (Continued)

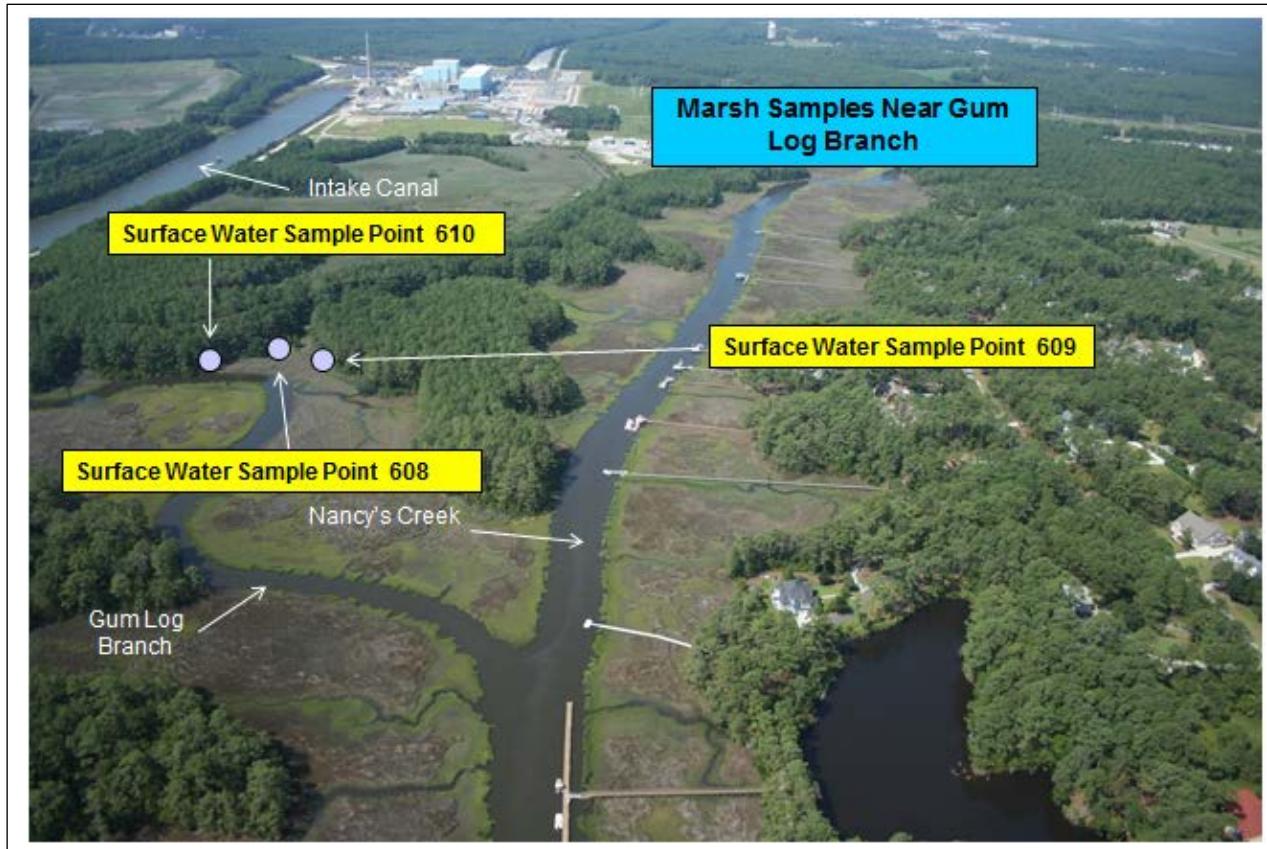


Figure 2.1-9
Radiological Environmental Sampling Locations (Continued)

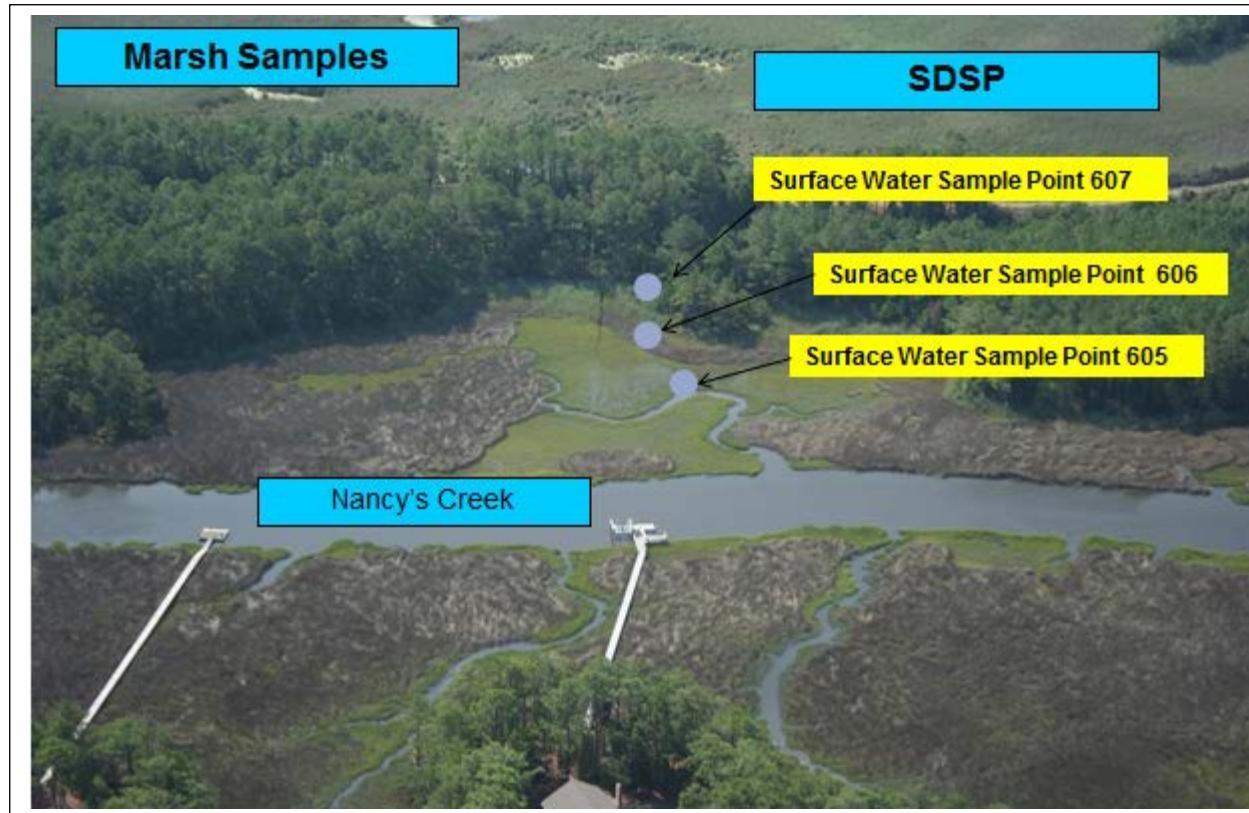


Figure 2.1-10
Radiological Environmental Sampling Locations (Continued)

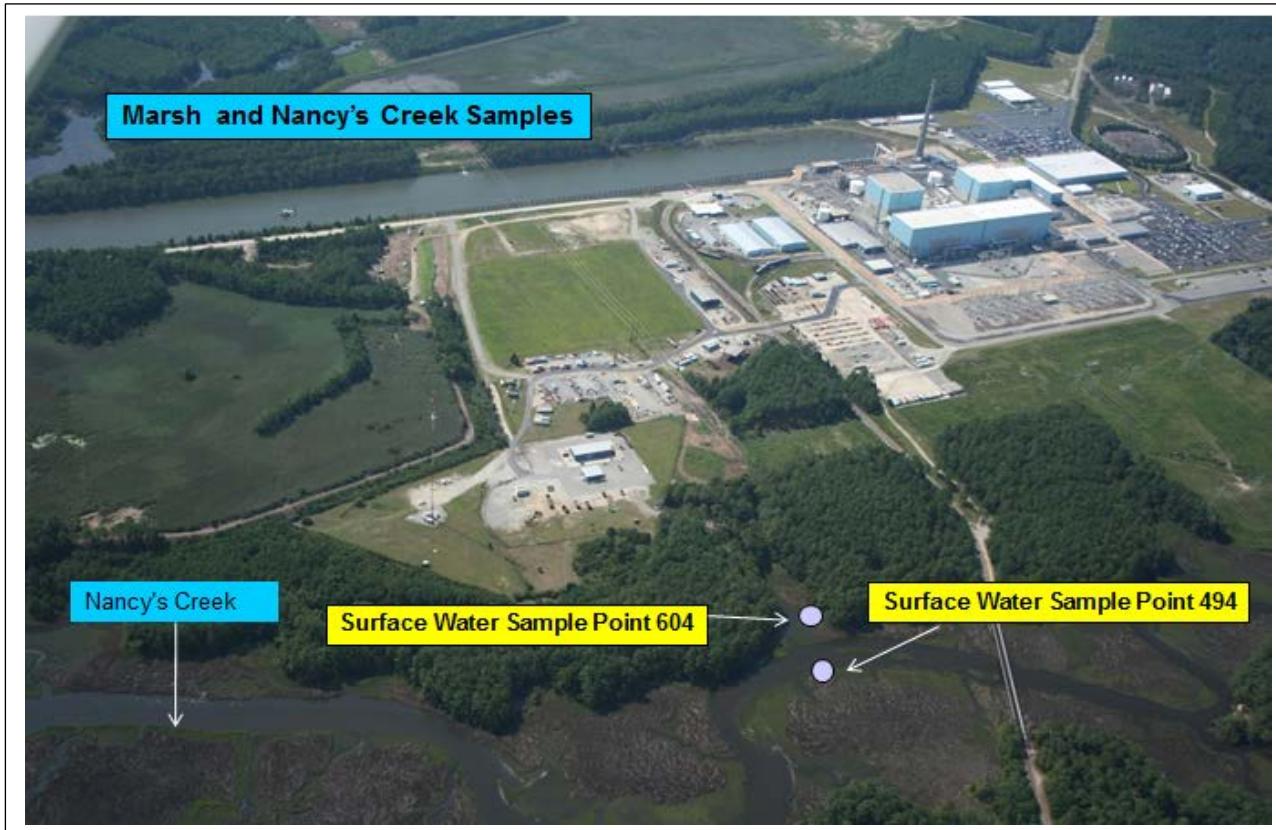


Figure 2.1-11
Radiological Environmental Sampling Locations (Continued)



SDSP: Storm Drain Stabilization Pond

Figure 2.1-12
Radiological Environmental Sampling Locations - Wells

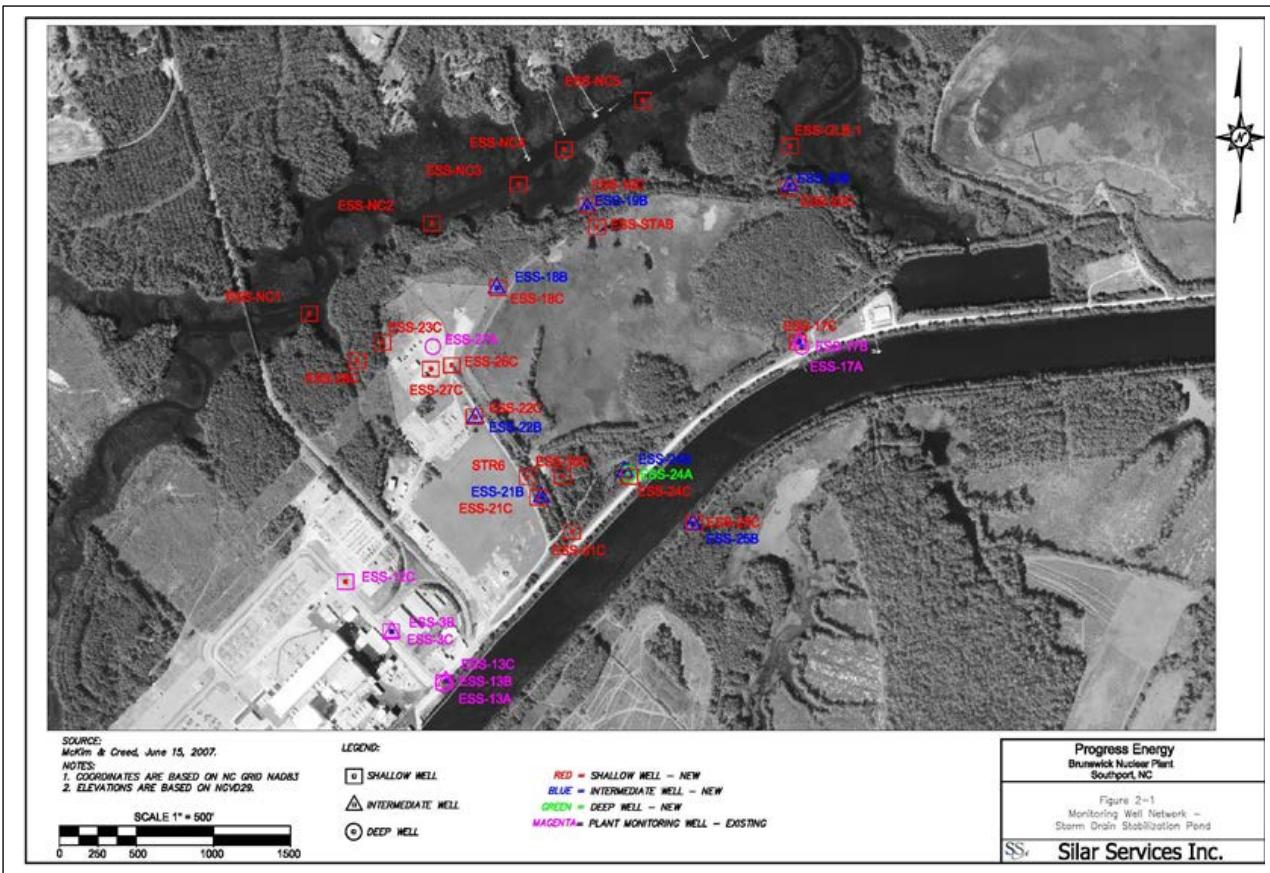


Figure 2.1-13
Radiological Environmental Sampling Locations – Wells (Continued)

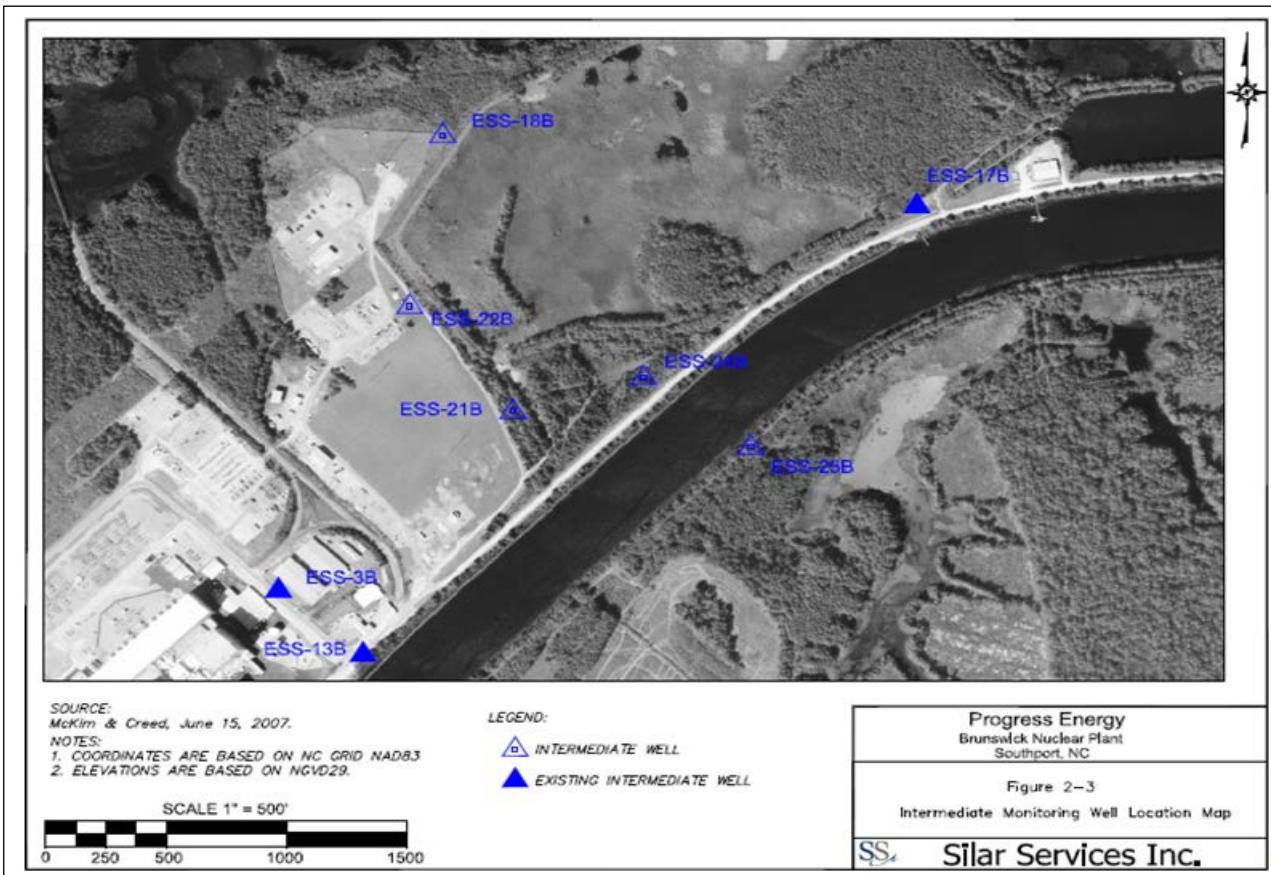


Figure 2.1-14
Radiological Environmental Sampling Locations – Wells (Continued)

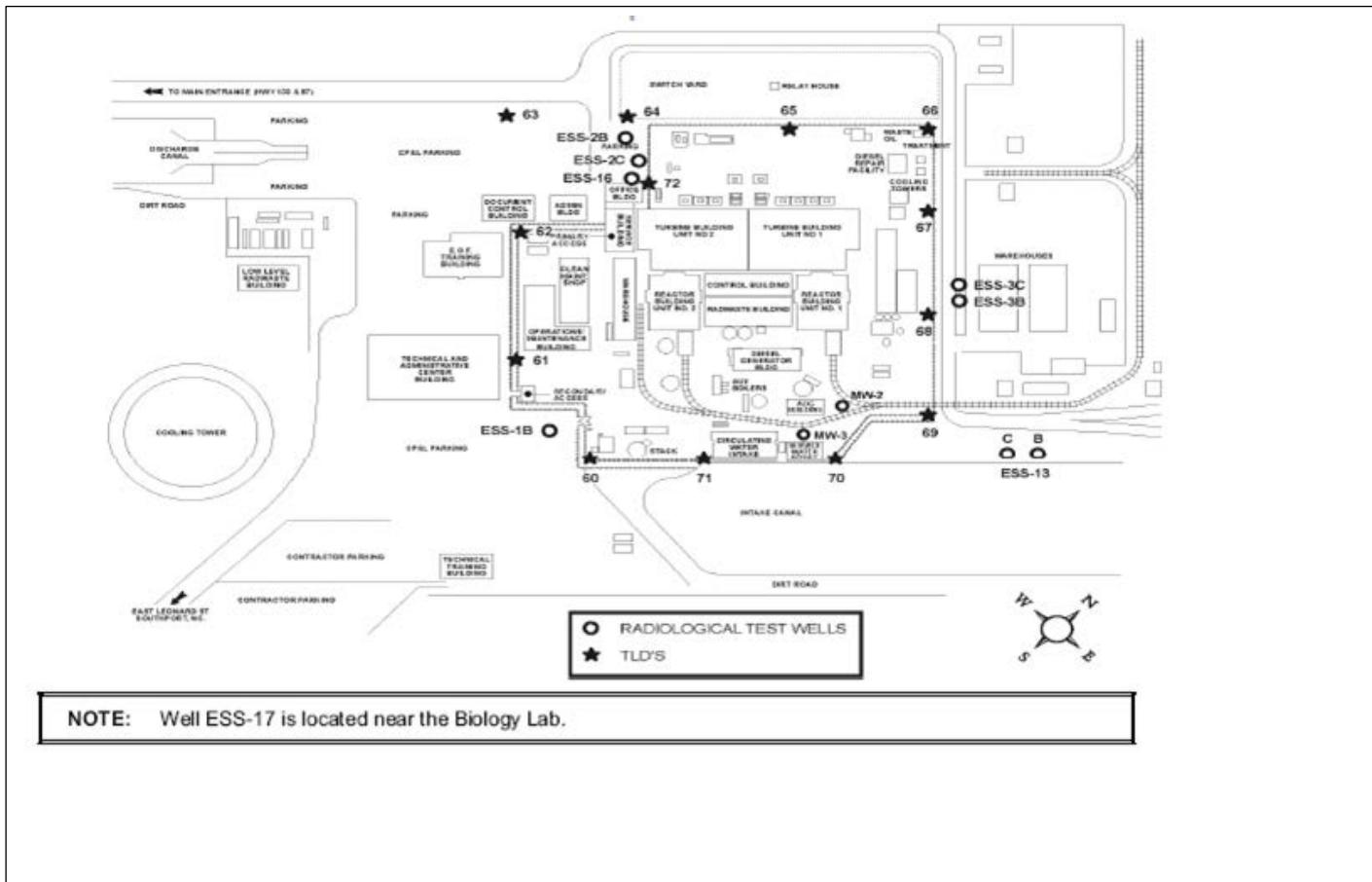


Figure 2.1-15
Radiological Environmental Sampling Locations – Wells (Continued)

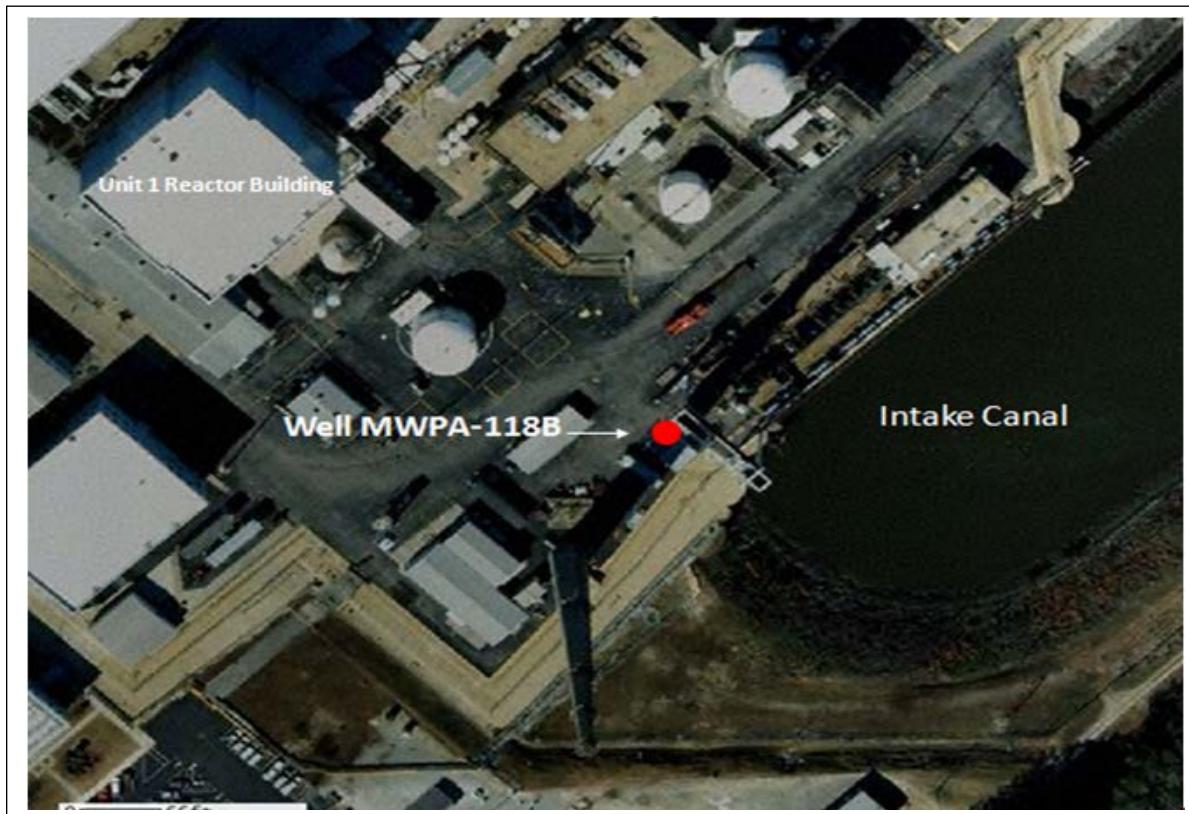


TABLE 2.1-A
BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM Rev. 37
RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

Table 2.1-A Codes			
W	Weekly	SA	Semiannually
M	Monthly	A	Annually
Q	Quarterly		
C	Control	I	Indicator

Site #	Type	Location Description*	Air Radiiodine & Air Particulate	Surface Water	Shoreline Sediment	Fish (FI)	Broadleaf Vegetation	Ground Water
200	I	1.0 miles WSW – Visitors Center	W/Q					
201	I	0.5 miles NE – Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC)	W/Q					
202	I	1.0 mile S – Substation, Construction Rd.	W/Q					
203	I	2.0 miles SSW – Southport Substation	W/Q					
204	C	22.4 miles NNE – Sutton Plant (Historical Control)	W/Q					
205	I	0.6 miles SSE – Spoil Pond	W/Q					
206	C	11.3 miles NW – Brunswick County Complex	W/Q					
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 March Area – WP-106**		W				
495	I	Nancy's Creek – WP-52		W/M				
496	I	Nancy's Creek – WP-53		W/M				
497	I	Nancy's Creek – WP-55		W/M				
498	I	Nancy's Creek – WP-57		W/M				
499	C	Cape Fear River – WP-61		W/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**		W				
605	I	Nancy's Creek Marsh Area – WP-72**		W				
606	I	Nancy's Creek Marsh Area – WP-74**		W				
607	I	Nancy's Creek Marsh Area – WP-76**		W				
608	I	Nancy's Creek Marsh Area – WP-82**		W				
609	I	Nancy's Creek Marsh Area – WP-84**		W				
610	I	Nancy's Creek Marsh Area – WP-88**		W				
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 (Continued)

Site #	Type	Location Description*	Air Radioiodine & Air Particulate	Surface Water	Shoreline Sediment	Fish (FI)	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)		
801	I	0.8 miles SW – Discharge Canal				M ^(a)		
802	C	10.1 miles – Location not Specified				M ^(a)		
803	I	0.6 miles SSE – Spoil Pond				M ^(a)		
804	I	0.7 miles S – Leonard Street plant exit adjacent to RR tracks				M ^(a)		

(a) When Available

(b) Edible Portions

(c) When in Season

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

SDSP: Storm Drain Stabilization Pond

** Refers to SW-494, 604 – 610 and how composited weekly as indicated below for gamma analysis and Sample ID number in Appendix E.

ODCM Sample and Description	Composite Frequency/Analysis/Data ID
SW-494 (Nancy's Creek Marsh Area – WP-106)	Composited weekly as Waypoint Comp / Gamma analysis / Sample ID #1067 in data section – Appendix E
SW-604 (Nancy's Creek Marsh Area – WP-92)	
SW-605 (Nancy's Creek Marsh Area – WP-72)	Composited weekly as Waypoint Comp (70) / Gamma analysis / Sample ID #1065 in data section – Appendix E
SW-606 (Nancy's Creek Marsh Area – WP-74)	
SW-607 (Nancy's Creek Marsh Area – WP-76)	
SW-608 (Nancy's Creek Marsh Area – WP-82)	Composited weekly as Waypoint Comp (80) / Gamma analysis / Sample ID #1066 in data section – Appendix E
SW-609 (Nancy's Creek Marsh Area – WP-84)	
SW-610 (Nancy's Creek Marsh Area – WP-88)	

TABLE 2.1-B
BRUNSWICK STEAM ELECTRIC PLANT (BSEP) ODCM Rev. 38
RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

Table 2.1-B Codes			
W	Weekly	SA	Semiannually
M	Monthly	A	Annually
Q	Quarterly		
C	Control	I	Indicator

Site #	Type	Location Description*	Air Radiiodine & Air Particulate	Surface Water	Shoreline Sediment	Fish (FI)	Broadleaf Vegetation	Ground Water
200	I	1.0 miles WSW – Visitors Center	W/Q					
201	I	0.5 miles NE – Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC)	W/Q					
202	I	1.0 mile S – Substation, Construction Rd.	W/Q					
203	I	2.0 miles SSW – Southport Substation	W/Q					
204	C	22.4 miles NNE – Sutton Plant (Historical Control)	W/Q					
205	I	0.6 miles SSE – Spoil Pond	W/Q					
206	C	11.3 miles NW – Brunswick County Complex	W/Q					
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 March 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	Cape Fear River – 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-B (Continued)

Site #	Type	Location Description*	Air Radioiodine & Air Particulate	Surface Water	Shoreline Sediment	Fish (FI)	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)		
801	I	0.8 miles SW – Discharge Canal				M ^(a)		
802	C	10.1 miles – Location not Specified				M ^(a)		
803	I	0.6 miles SSE – Spoil Pond				M ^(a)		
804	I	0.7 miles S – Leonard Street plant exit adjacent to RR tracks				M ^(a)		

(a) When Available

(b) Edible Portions

(c) When in Season

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

SDSP: Storm Drain Stabilization Pond

TABLE 2.1-C
BRUNSWICK STEAM ELECTRIC PLANT (BSEP)
RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)

Table 2.1-C Codes			
IR	Inner Ring	OR	Outer Ring
ISFSI Independent Spent Fuel Storage Installation			
C	Control	SI	Special Interest

Site #	Measure Type	Location*	Distance (miles)	Sector	Site #	Measure Type	Location*	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	1.7		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					

* 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 - ODCM Rev. 37

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Gross Beta	TLD
Air Radioiodine	Weekly	X			
Air Particulate	Weekly			X	
	Quarterly	X			
Direct Radiation (TLD)	Quarterly				X
Surface Water	Monthly Composite (400 & 401)	X	X		
	Weekly Grab (495 – 499)		X		
	Monthly Comp. of Weekly Grab	X			
	Weekly Grab (494, 604 – 610)	X	X		
Ground Water	Quarterly Grab		X		
	Semiannual Grab	X			
Shoreline Sediment	Semiannually (500)	X			
	Annually (501)	X			
Fish and Shellfish/Invertebrates ^(a)	Semiannually (700 – 705)	X			
	Annually (706 – 708)	X			
Broadleaf Vegetation ^(b)	Monthly ^(b)	X			

- (a) Edible portions
(b) When available

TABLE 2.2-C
REMP ANALYSIS FREQUENCY - ODCM Rev. 38

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

- (c) Edible portions
- (d) When available

TABLE 2.2-D
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 $5 \times 10^{-7} \mu\text{Ci/ml}$ for Principal Gamma Emitters and $1 \times 10^{-6} \mu\text{Ci/ml}$ for I-131.

3.0 INTERPRETATION OF RESULTS

The following section depicts and explains the review of the REMP results conducted during 2017 for the Brunswick Steam Electric Plant (BSEP) and fulfills the reporting requirements of Technical Specifications 5.6.2, BSEP ODCM 7.4.1, and applicable procedures. Review of the 2017 REMP analysis results was performed to identify changes in environmental levels as a result of BSEP operations. Sample data for 2017 was compared to preoperational and historical data. Summary tables containing 2017 information required by Technical Specification 5.6.2 are located in Appendix B.

Evaluation for significant trends was performed for radionuclides that are listed as required within 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 analysis results were trended for air particulates and tritium results for surface water samples.

BSEP 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 BSEP liquid effluents which contained the radionuclides.

Review of the 2017 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 2017 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to BSEP operations in 2017 were within limits as specified in the BSEP ODCM, thus presenting no significant impact on the environment or public health and safety.

A statistical summary of the BSEP data for 2017 has been compiled and summarized in Appendix B along with any plant-derived activity detected within the scope of the REMP.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

The 371 air cartridge/radioiodine (AR) samples from the indicator (265 samples) and the control (106 samples) stations had Iodine-131 (I-131) concentrations less than the ODCM LLD of 7.00E-2 pCi/m³. The air samplers operated for a total of 99.90% availability for the 2017 year. No I-131 activity due to BSEP operations was identified in any indicator or control samples in 2017. However, I-131 was detected in air samples following the Fukushima Dai-ichi Nuclear Power Plant incident after the March 11, 2011, earthquake and tsunami (NCR # 0456564). Refer to Table 3.1-2 for the highest annual mean indicator location and control location I-131 concentrations since 1999 to 2017.

For the period of January 1, 2017, to December 31, 2017, the gross beta activity was detectable in the airborne particulate (AP) samples, with acceptable runtime, from the five indicator locations and the two control locations. The 265 indicator AP samples had an average concentration of 1.72E-2 pCi/m³ (a value lower than the preoperational data) and the 106 control AP samples had an average gross beta concentration of 1.76E-2 pCi/m³ in 2017. The preoperational (1973 – 1974) average concentration was 8.2E-2 pCi/m³. The airborne concentrations of gross beta activity in 2017 are indicative of natural background and do not indicate any activities originating from the nuclear operations at BSEP. Figure 3.1 and Table 3.1-1 provide individual sample gross beta results for the highest annual mean indicator location and the control locations concentration since 1999 to 2017 (refer to Appendix B). The two sample locations' results are similar in concentration and have negligible variance. No plant-related gamma activity was observed for any air particulate filters analyzed during 2016. Natural gamma concentrations identified are typical of the natural environment and are not attributed to plant operations. Refer to Appendix C or Appendix D for deviations and unavailable samples in the 2017 collection year.

No plant-related gamma activity was detected in quarterly composite filter samples from either the indicator or control locations during 2017. An additional gamma analysis was performed on the final 2017 air particulate sample set for calendar reconciliation purposes (NCR # 02174810). BSEP ODCM LLDs and reporting levels for air particulates are contained in Section 2.0 in Table 2.2-D and 2.2-A respectively.

Figure 3.1

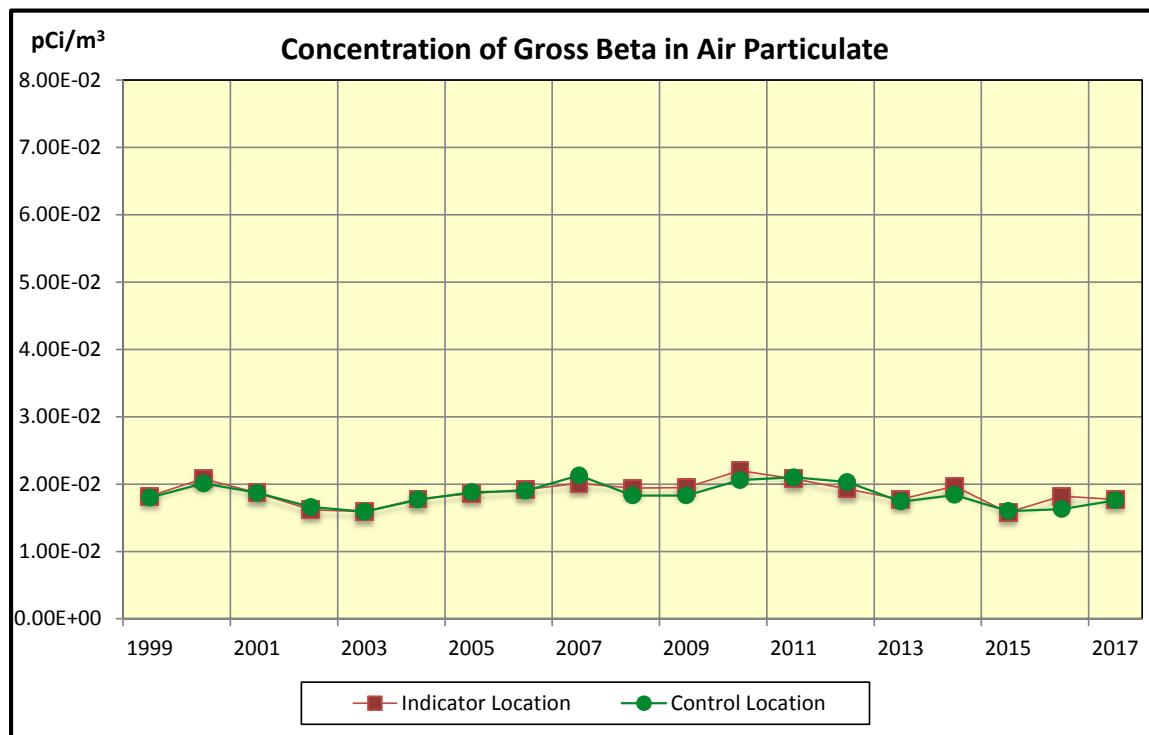


Table 3.1-1 Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
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

Table 3.1-2 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 ⁽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

0.00E+0 indicates no detectable measurements

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

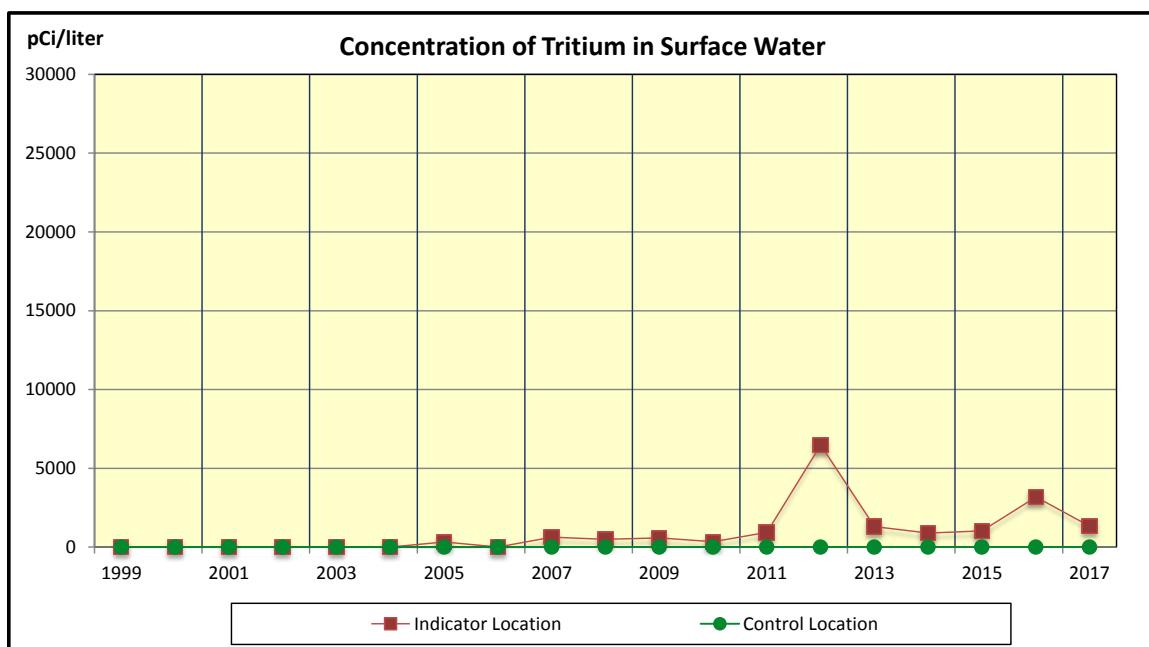
(2) 2011 concentrations affected by Fukushima Dai-ichi

(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 (SW) is sampled monthly from the intake and discharge canal, while Nancy's Creek samples and Nancy's Creek Marsh Area samples are sampled weekly per BSEP ODCM Revision 37. Refer to Table 2.2-B for REMP Analysis Frequency - ODCM Rev. 37. These samples are analyzed for gamma-emitting radionuclides and for tritium. Tritium analysis is performed weekly on the Nancy's Creek samples. Sampling and compositing, of the Nancy's Creek samples, for gamma emitters is weekly and the gamma analysis is performed monthly on the samples composited weekly. The current BSEP ODCM (Revision 37) effective date of October 29, 2013, states for the Nancy's Creek Marsh Area that samples are collected weekly and are analyzed weekly for tritium, while ODCM sample location 494 and 604 are composited weekly and the composite (Waypoint Comp – sample ID #1067) are analyzed weekly for gamma emitters. Nancy's Creek Marsh Area surface water samples 605, 606, and 607 are collected weekly and composited (Waypoint Comp (70) – sample ID #1065) for gamma analysis along with surface water samples 608, 609, and 610 (Waypoint Comp (80) – sample ID #1066). Per BSEP ODCM Revision 38 effective date of August 1, 2017; the Nancy's Creek samples and the Nancy's Creek Marsh Area samples are sampled monthly (grab samples) and analyzed for gamma-emitting radionuclides and tritium. Refer to Table 2.2-C for REMP Analysis Frequency - ODCM Rev. 38. The gamma analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the surface water indicator or control samples. None of the control samples (SW-400 or 499) indicated the presence of tritium. However, 28 out of 412 indicator samples indicated the presence of tritium in 2017. The predominate indicator locations indicating tritium in 2017 were at Nancy's Creek Marsh Area and the discharge canal. Two of the twelve samples from the historical discharge canal (SW-401) indicated the presence of tritium, while 26 out of 260 samples from Nancy's Creek Marsh Area indicated the presence of tritium. The tritium activity detected in SW-401 (the discharge canal composite sample) had an average tritium concentration of 3.36E+2 pCi/L, which was expected due to plant operations at the time of sampling. The indicator samples from Nancy's Creek and Nancy's Creek Marsh Area had an average concentration of 9.43E+2 pCi/L of tritium activity. The reporting limit for tritium in environmental samples is 3.00E+4 pCi/L (30,000 pCi/L); therefore, per BSEP's ODCM requirements (7.13.15 c and d), all of the detected values are below the reportable limit. The total level of radioactivity as the result of plant effluents in each environmental sampling medium at a required location shall be less than the limit specified when averaged over the calendar quarter. Three surface water composite samples (Waypoint Comp (70) – sample ID #1065, Waypoint Comp (80) – sample ID #1066, and Waypoint Comp – sample ID #1067) collected May 23, 2017 per BSEP ODCM Table 7.3.15-1 were not analyzed for gamma-emitting radionuclides by BSEP Laboratory (Bio-Lab) in the required timeframe stated in the BSEP ODCM (NCR # 02128415). Refer to Appendix D, Analytical Deviations for additional information. Figure 3.2 displays the tritium results for the highest annual mean indicator and control locations concentrations since 1999 to 2017. Table 3.2 lists the highest annual mean concentrations for indicator and control locations. Refer to Appendix B for additional surface water results.

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

0.00E+0 indicates no detectable measurements

3.3 GROUND WATER

Ground water (GW) is sampled quarterly and semiannually from ten indicator sample sites. These samples are analyzed for gamma-emitting radionuclides (at least semiannually) and for tritium (at least quarterly). The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the indicator samples in 2017. The tritium analyses indicated detectable concentrations of tritium in three out of forty indicator samples analyzed in 2017 for an average tritium concentration of 3.76E+2 pCi/L. Refer to Appendix B for additional ground water results. Table 3.3 lists the tritium results for the highest annual mean concentrations for indicator and control locations since 1999 to 2017.

The county of Brunswick 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 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

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/BROADLEAF VEGETATION

No milk (milch) sampling locations are currently identified in BSEP environs; therefore, no sampling of this media was available in 2017.

Food crops were not grown in the vicinity of the plant in 2017 and this media was represented by indigenous vegetation samples consisting primarily of wax myrtle leaves. Forty-eight samples were collected from indicator locations and twelve samples from the control location. No detectable activities relating to plant effluents were detected in any of the indicator or control broadleaf vegetation sample media in 2017. No other gamma activity was detected in any sample other than naturally occurring gamma activity. Figure 3.4 displays the highest annual mean indicator and control location concentrations for Cs-137 in broadleaf vegetation since 1999 to 2017. Table 3.4 lists the highest annual mean concentrations for indicator and control locations for Cs-134, Cs-137, Co-60, and I-131 in broadleaf vegetation since 1999 to 201.

Figure 3.4

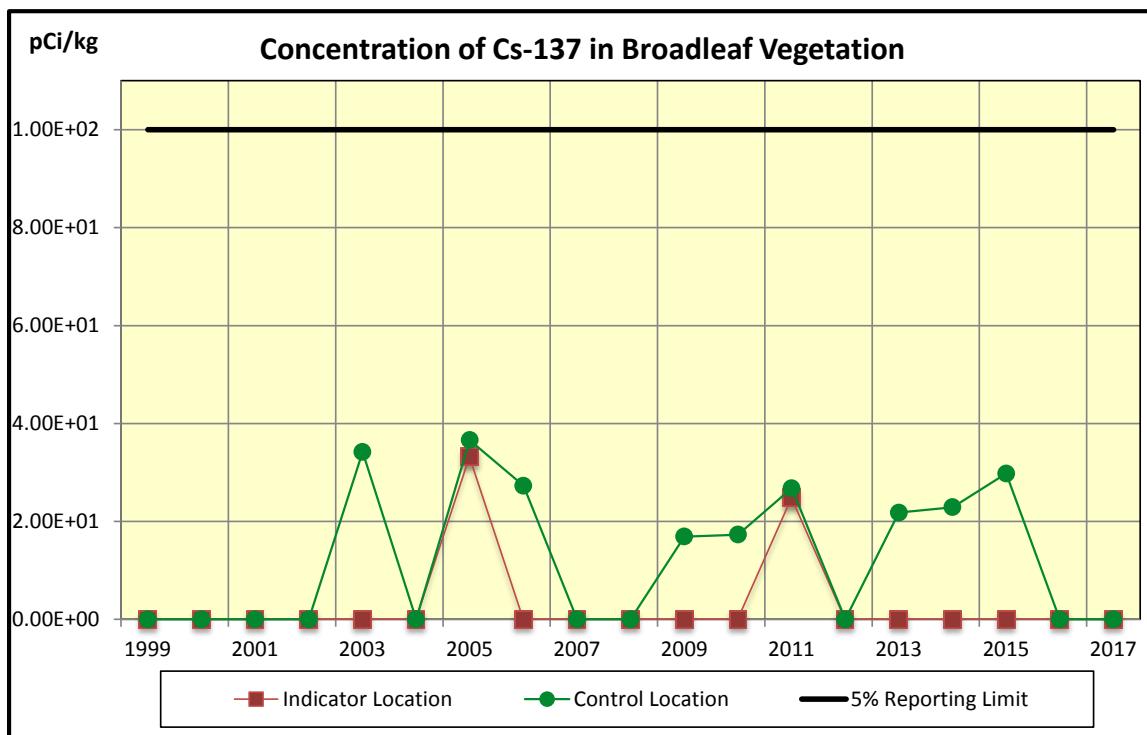


Table 3.4 Mean Concentrations of Radionuclides in Broadleaf Vegetation (pCi/kg)

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

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.

3.5 FISH and INVERTEBRATES

Fish (free swimmers and bottom feeders), invertebrate (SH), and benthic organism (BO) samples are collected semiannually from three locations: (1) near the Atlantic Ocean discharge pipe at Caswell Beach and (2) a control location in the Atlantic Ocean not influenced by plant operations and (3) annually from three locations on Nancy's Creek (Figure 2.1-5). Fifteen samples were collected from indicator and control locations during 2017. No detectable activities relating to plant effluents were detected in the indicator or control fish and invertebrate sample media in 2017.

3.6 SHORELINE SEDIMENT

Four shoreline sediment (SS) indicator samples were collected in 2017. All of the radionuclides indicative of plant effluents were determined to be less than the respective LLDs for gamma-emitting radionuclides in both samples from the beach area near the pumping station location at Caswell Beach and one sample from the Nancy's Creek area. Two shoreline sediment samples in 2017 were drawn from Nancy's Creek adjacent to WP-55 near the Storm Drain Stabilization Pond (SDSP), where one of the indicator samples contained Cesium (Cs)-137 activity (Single Value: 1.13E+2 pCi/kg, dry). The Nancy's Creek sample that indicated Cs-137 activity was analyzed for Iron (Fe)-55, Strontium (Sr)-89, Strontium (Sr)-90, and Nickel (Ni)-63 by General Engineering Laboratories, LLC (GEL) where all the results were less than the respective LLDs. Per BSEP ODCM revision 37 and revision 38; if plant activity is detected, then Sr-89, 90, and Fe-55 analyses are to be performed on the shoreline sediment sample and the frequency of sampling for the shoreline sediment sample from Nancy's Creek will increase to semi-annually for the next sampling year. Figure 3.6 displays the highest annual mean indicator concentrations for Cs-137 in shoreline sediment since 1999 to 2017. Table 3.6 lists the highest annual mean concentrations for the indicator locations for Cs-137 in shoreline sediment since 1999 to 2017.

Figure 3.6

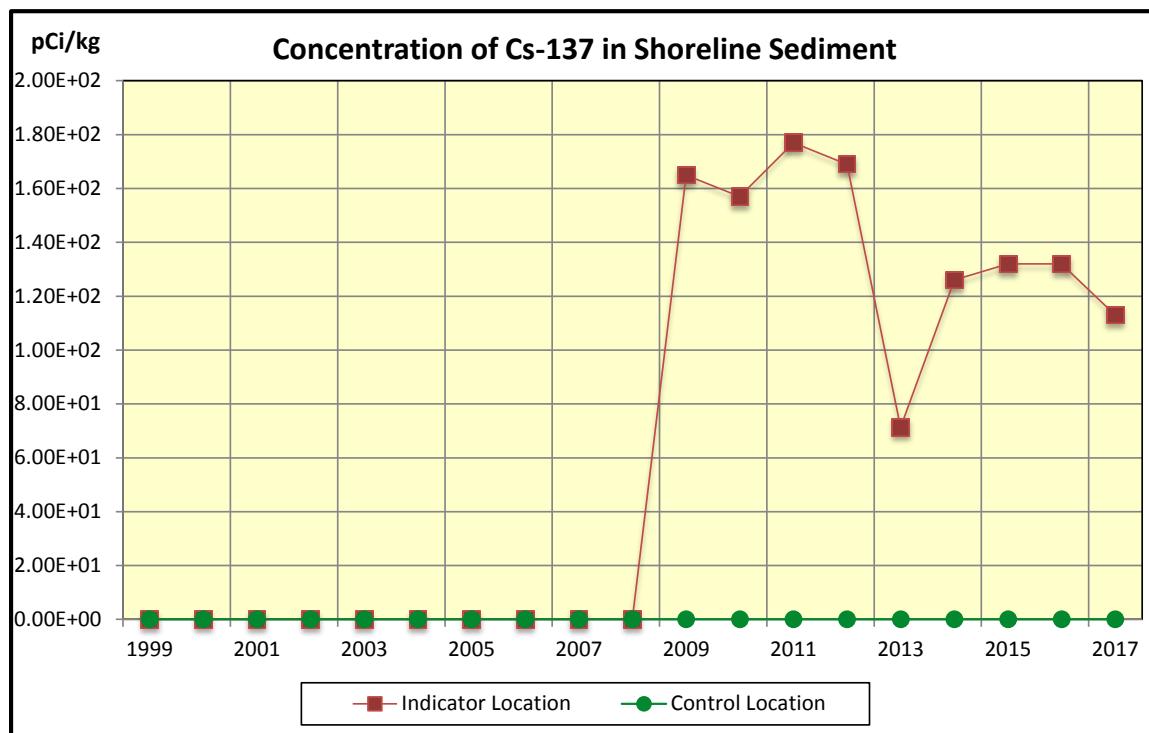


Table 3.6 Mean Concentration of Radionuclides in Shoreline Sediment

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

0.00E+0 indicates no detectable measurements

There is no control location for Shoreline Sediments.

(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.

3.7 DIRECT GAMMA RADIATION

3.7.1 ENVIRONMENTAL TLD

In 2017, 177 TLDs were analyzed, 173 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly. There were three missing TLDs during the BSEP 2017 collection period, refer to Appendix C for information.

Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. The environmental data on external radiation exposure for 2017 was essentially unchanged from 1989-2016, with an average exposure for all of 2017 indicator locations of 10.1 mR per std. quarter. The average exposure observed over the preoperational period was 1.02 mR per week observed from the fourth quarter of 1972 through the second quarter of 1975. Table 3.7-3 provides a comparison of recent data with the preoperational and historical data.

The average quarterly exposure at the indicator and control locations was 10.1 mR/Std. Qtr. and 10.8 mR/Std. Qtr. respectively. The highest indicator location was 3.0 miles W of the plant and its average was 14.6 mR/Std. Qtr. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations.

Comparison of the average annual TLD exposure between the inner and outer ring TLD data and the control TLD data for 1999 to 2017 is presented in Figure 3.7 and Table 3.7-1.

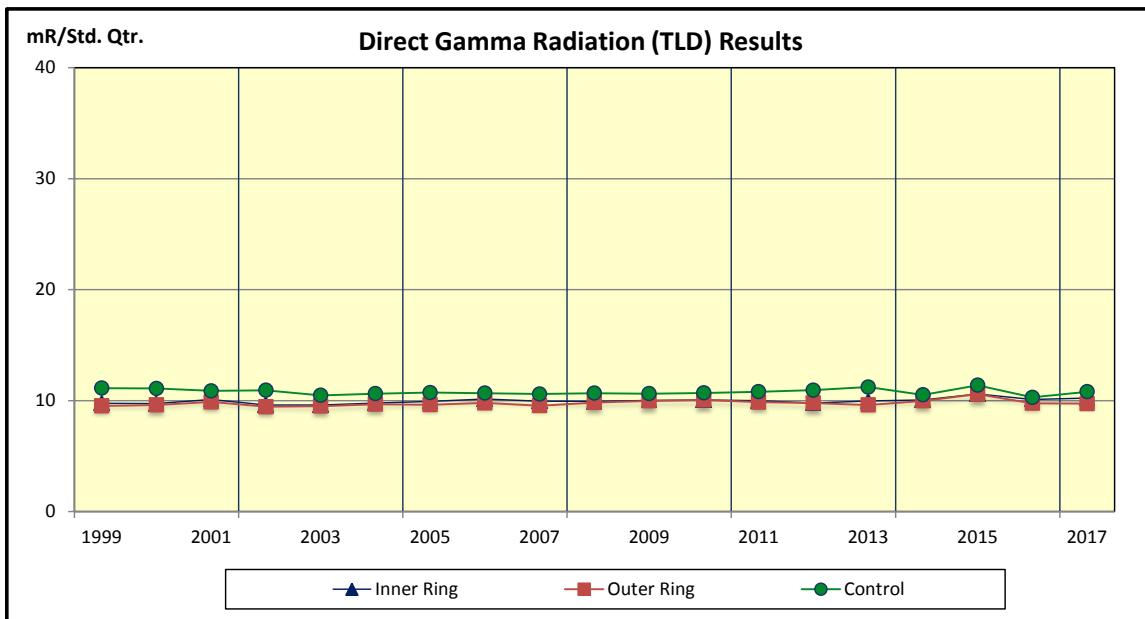
TLD averages per Appendix B do include a separate line for the four ISFSI TLDs that were added to the program as of 3rd Quarter 2010. These TLDs are not indicative of the plant's environmental monitoring program's TLDs, so they will be handled separately. The ISFSI TLD data is included with the environmental data results as a separate section. Comparison of the 2017 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 (See Table 3.7-2). Dry fuel storage radiation measurements have been monitored since 2008 and additional information can be found in the BSEP 2017 Annual Release Report.

As of first quarter 2014, the environmental TLDs that are placed in the field for REMP are Harshaw TLDs. Panasonic TLDs were the type of environmental TLDs for BSEP REMP monitoring prior to 2014. This change was a merger initiative in order to achieve fleet standardization of the TLD program. This change in environmental TLDs for the REMP indicates a step change in activity as mentioned in NCR # 01982479 between the Panasonic TLD readings prior to 2014 and the Harshaw TLD readings from 2014 to present. There are three factors that can be attributed to the step increase that was observed: (1) the annealing method levels employed were lower for the Panasonic TLDs, (2) transit control subtraction

differences, and (3) the calculation/method of fade correction (fixed fade control - vs - actual in field TLDs). Starting in 2016, enhanced analytical methods will be evaluated for future implementation when sufficient data is available. The new methods will improve data transparency and interpretation.

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

Figure 3.7



There is no reporting level for Direct Radiation (TLD)

Table 3.7-1 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	1.01E+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

Table 3.7-2
ISFSI TLD Dose (mR/Std. Qtr.)

	TLD # 82	TLD # 83	TLD # 84	TLD # 85
Average Pre-Op (1 st Qtr. 2008 to 3 rd Qtr. 2010)	30.1 ± 3.1	22.4 ± 2.1	16.7 ± 1.6	53.2 ± 7.6
Average after Fuel Loaded (4 th Qtr. 2010 to 4 th Qtr. 2017)	30.1	24.3	18.3	40.6

Table 3.7-3
Brunswick Steam Electric Plant
HISTORICAL TLD RESULTS (1972-2017)

Year	Average Exposure of All TLD Monitoring Locations (mR per week)
1972 (4th Qtr.)	0.80
1973	1.25
1974	0.97
1975 (1st, 2nd Qtr)	0.80
1976	0.98
1977	1.32
1978	1.24
1979	0.93
1980	0.90
1981	0.96
1982	1.18
1983	1.21
1984	0.98
1985	1.03
1986	0.89
1987	0.92
1988	0.86
1989	0.75
1990	0.76
1991	0.76
1992	0.75
1993	0.78
1994	0.77
1995	10.1 (mR per quarter)*
1996	10.1 (mR per quarter)
1997	10.1 (mR per quarter)
1998	9.7 (mR per quarter)
1999	9.7 (mR per quarter)
2000	9.7 (mR per quarter)
2001	10.0 (mR per quarter)
2002	9.6 (mR per quarter)
2003	9.6 (mR per quarter)
2004	9.7 (mR per quarter)
2005	9.8 (mR per quarter)
2006	10.0 (mR per quarter)
2007	9.8 (mR per quarter)
2008	9.9 (mR per quarter)
2009	10.0 (mR per quarter)
2010	10.1 (mR per quarter)
2011	9.9 (mR per quarter)
2012	9.8 (mR per quarter)
2013	9.8 (mR per quarter)
2014	10.0 (mR per quarter)
2015	10.7 (mR per quarter)
2016	10.0 (mR per quarter)
2017	10.1 (mR per quarter)

*TLD exposure in mR per quarter beginning in 1995. The equivalent weekly exposure is 0.78 mR.

3.8 LAND USE CENSUS

The 2017 BSEP Annual Land Use Census was conducted during June of 2017 as required by the BSEP ODCM. Table 3.8-A summarizes the BSEP 2017 census results. No environmental program changes were required as a result of the 2017 Land Use Census.

3.8.1 PURPOSE OF LAND USE CENSUS

The land use census identifies the pathways (or routes) that radioactive material may reach the general populations near commercial nuclear generating stations. This is accomplished by completing studies each year that identify how the surrounding lands are used by the population. A comprehensive census of the use of the land within a five-mile (8 kilometer) distance of the plant is completed during the growing season each year. This information is used for dose assessment and to identify changes to the stations sampled and the type of samples. These results ensure that the Radiological Environmental Monitoring Program (REMP) is based upon current data regarding human activity in the vicinity of the plant. Therefore, the purpose of the land use census is to ensure the monitoring program is current, as well as provide data for the calculation of estimated radiation exposure.

The pathways evaluated are:

- Ingestion Pathway – Results from eating food crops that may have radioactive materials deposited on them, incorporated radioactive materials from the soil or atmosphere. Another pathway is through drinking milk from local cows or goats, if these are present. The grass used to feed these animals may have had radioactive materials deposited on them, that can then be transferred to the milk.
- Direct Radiation Exposure Pathway- Results from deposition of radioactive materials on the ground or from passage of these radioactive materials in the air.
- Inhalation Pathway- Results from breathing radioactive materials transported in the air.

3.8.2 METHODOLOGY

The following must be identified within the five-mile (8 kilometer) radius of the plant for each of the sixteen meteorological sectors (compass direction the winds may blow, for example NNE [North North East]):

- The nearest resident
- The nearest garden of greater than 500 square feet, producing broadleaf vegetation

- The nearest milk animal

The following must also be identified (for elevated releases) within the three-mile radius of the plant for each of the 16 meteorological sectors:

- The location of all milk animals
- The location of all gardens of greater than 500 square feet, producing broadleaf vegetation

The primary method 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.

3.8.3 LAND USE CENSUS RESULTS

The 2016 and 2017 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 3.8-A.

The resident portion of the census conducted in June of 2017 did not identify any new residents closer to the plant; therefore, no changes from the 2016 land use census. The garden portion of the census identified changes in the distance of the nearest garden in three sectors during the 2017 census.

The nearest garden locations changed in the North (N) sector from 1.0 mile to no garden, SW from 2.2 miles to 2.8 miles, and in the NNW sector from 0.9 miles to 0.8 miles. No milk animals were located within 5 miles of the plant in 2017.

The 2017 Garden Census was conducted within three (3) miles of BSEP and identifies all gardens of greater than 500 square feet that were found in the survey area. Results of the garden census are located in Table 3.8-B.

Results of the 2017 Land Use and Garden Census indicate stable use of land, confirming that current control locations are appropriate, and no changes are needed for dose assessment and environmental monitoring.

Table 3.8-A
Brunswick Steam Electric Plant
Land Use Census Comparison (2016 – 2017)
Nearest Pathway (Miles)

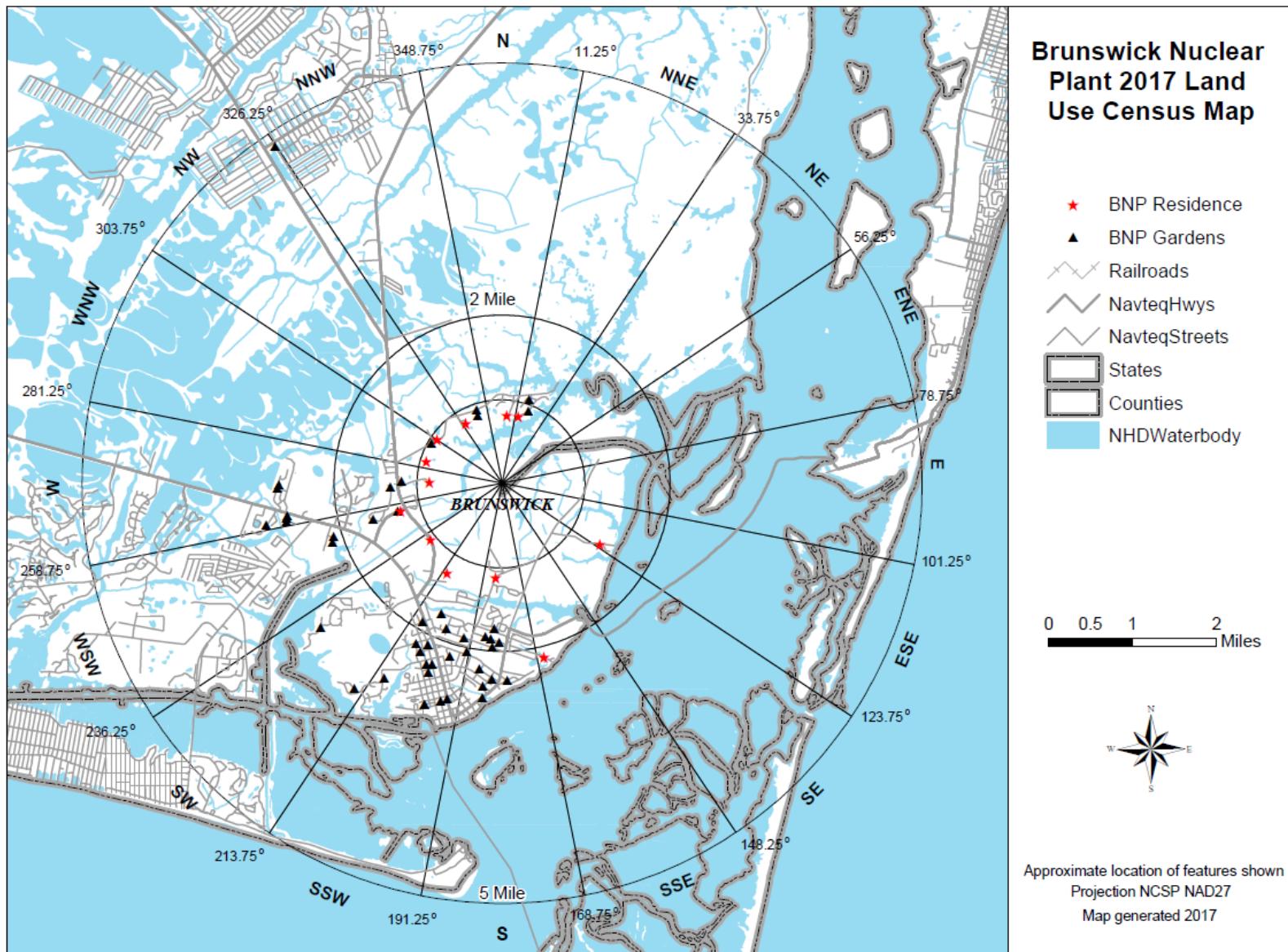
SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2016	2017	2016	2017	2016	2017
N	0.7	0.7	1.0	None*	None	None
NNE	0.8	0.8	0.9	0.9	None	None
NE	None	None	None	None	None	None
ENE	None	None	None	None	None	None
E	None	None	None	None	None	None
ESE	1.4	1.4	None	None	None	None
SE	None	None	None	None	None	None
SSE	2.1	2.1	None	None	None	None
S	1.1	1.1	1.7	1.7	None	None
SSW	1.2	1.2	1.7	1.7	None	None
SW	1.1	1.1	2.2	2.8*	None	None
WSW	1.2	1.2	1.3	1.3	None	None
W	0.9	0.9	1.2	1.2	None	None
WNW	0.9	0.9	1.0	1.0	None	None
NW	0.9	0.9	4.9	4.9	None	None
NNW	0.8	0.8	0.9	0.8*	None	None

* Represents a change from the previous year.
Sector and distance determined by Global Positioning System.

Table 3.8-B
Brunswick Steam Electric Plant
Garden Census – 2017

SECTOR	DISTANCE (miles)		SECTOR	DISTANCE (miles)
N	None		SSW	2.2
NNE	0.9		SSW	2.3
NNE	1.0		SSW	2.3
NE	None		SSW	2.4
ENE	None		SSW	2.6
E	None		SSW	2.7
ESE	None		SSW	2.7
SE	None		SSW	2.8
SSE	None		SSW	2.8
S	1.7		SW	2.8
S	1.8		SW	3.0
S	1.9		WSW	1.3
S	1.9		WSW	1.6
S	2.0		WSW	2.1
S	2.2		WSW	2.1
S	2.3		W	1.2
S	2.3		W	1.3
S	2.4		W	2.6
S	2.6		W	2.6
SSW	1.7		W	2.6
SSW	1.8		W	2.7
SSW	1.9		W	2.7
SSW	1.9		W	2.8
SSW	2.1		WNW	1.0
SSW	2.1		NW	4.9
SSW	2.1		NNW	0.8
SSW	2.2		NNW	0.9

Figure 3.8-1



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

Environmental sample collection at BSEP was performed by BSEP Chemistry personnel in 2017 along with the Environmental Water Resources Group 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 located in Huntersville, North Carolina, at Duke Energy's Environmental Center. The ground water samples and most of the surface water samples requiring gamma and tritium analyses were analyzed by the BSEP laboratory through September 2017 and then by EnRad Laboratories. The shoreline sediment samples requiring hard-to-detects (Fe-55, Ni-63, and Sr-89/90) during 2017, were analyzed by a vendor laboratory; General Engineering Laboratory, LLC (GEL); as specified by approved analysis procedures.

4.3 DOSIMETRY ANALYSIS

The Radiation Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

BSEP and EnRad Laboratories all have an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Quality control checks are performed to 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 ground water and surface water samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2017 Duke Energy Environmental Laboratory (EnRad) participated in an interlaboratory program to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable. The EnRad organization, in 2017, elected to voluntarily withdraw its North Carolina State Drinking Water Certification with the North Carolina Department of Health and Human Services, State Laboratory of Public Health. It was determined that there was no longer a business case for maintaining this certification (NCR # 02093302). Samples requiring this certification are sent to General Engineering Laboratories, LLC (GEL), which maintains the necessary certifications to meet regulatory commitments for drinking water.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2017. EZA results were evaluated against the NRC Inspection Manual Procedure 84750 (IP 84750) 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 DUKE ENERGY INTERLABORATORY PROGRAM

EnRad Laboratories made the determination in 2017 to discontinue its participation in the Duke Energy Fleet Scientific Services (FSS) Interlaboratory Program, as EnRad already maintains a sufficient cross check program through EZA. Historically, Duke Energy FSS has maintained its own Interlaboratory Program supporting the Duke Energy fleet. At EnRad, this has been a supplement to EnRad's participation in the EZA Cross Check Program. In 2017, FSS determined that shifting business needs had reduced the need for the FSS Interlaboratory Program and the majority of the Interlaboratory Program has been discontinued.

4.5.2 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EnRad Laboratories participated in the Eckert & Ziegler Analytics (EZA) Cross Check Program during 2017. Cross check samples including mixed gamma in liquid, mixed gamma in vegetation, low-level I-131 in liquid, mixed gamma air filters (single and composites), mixed gamma and I-131 air cartridges, strontium in water, gross alpha and beta in water, gross alpha and beta in filters, and tritium in water were analyzed at various times of the year. A summary of the EnRad Laboratory program results for 2017 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in all four quarters of 2017. Table 4.0-A lists the performance for specific samples. Eighty-seven nuclide results were reported to EZA of which eighty-six (98.9%) met the acceptance criteria based on IP 84750. One EZA cross check nuclide result did exhibit a high bias and EnRad proactively initiated an NCR to investigate this bias (NCR # 02138003).

In the second quarter of 2017, a mixed gamma in filter cross check (E11890) yielded a disagreement on only the Zinc 65 nuclide value (ratio to the known of 130%). An overall high bias was noted across all other nuclides, primarily in the high energy range. NCR # 02138003 was written to investigate and document the failure. It was determined that the geometry used for gamma filter counting contained compounding biases, leading to consistently high results in the upper energy range. Following the implementation of a new filter geometry, an equivalent filter cross check (E12011) was analyzed in the fourth quarter of 2017. The cross check passed with reduced biases, and a Zinc-65 nuclide value of 111% of the known.

The BSEP Chemistry Laboratory participated in the Analytical Environmental Cross Check Program administered by Eckert & Ziegler Analytics, Inc. during 2017. Cross check samples including tritium in water, gammas in solids, and other sample media were analyzed in 2017. A summary of the applicable BSEP Laboratory program results for 2017 is documented in Table 4.0-D. BSEP cross check results not appearing in Table 4.0-D will be supplied upon request.

4.5.3 ERA PROFICIENCY TESTING

EnRad Laboratories made the determination in 2017 to discontinue its participation in the Environmental Resource Associates (ERA) Proficiency Testing program, as this program's participation was solely for the purpose of maintaining EnRad's North Carolina State Drinking Water Certification requirements (NCR # 02093302).

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 BSEP Radiological Environmental Monitoring Program air, surface water, fish and invertebrates, broadleaf vegetation, 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

4.7.1 NUCLEAR TECHNOLOGY SERVICES INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA.

Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to the Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. A summary of the 2017 Nuclear Technology Services Intercomparison Report is documented in Table 4.0-B.

The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. During first quarter of 2017 an environmental external TLD cross check failed and NCR # 02147847 was written to document the failure of the four individual TLDs; however, the overall result fell within both the Duke Energy and Nuclear Technology Services, Inc. acceptance criteria. To prevent recurrence, the four TLDs were pulled and visually inspected for abnormalities in the elements and overall integrity of the TLDs and no abnormalities were found. The four TLDs were checked per procedure and TLDs # 533830 and 103632 were both removed from service. Complete documentation of any evaluation will be available and provided to the NRC upon request.

4.7.2 INTERNAL CROSS CHECK (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 dosimeters quarterly and submits them for analysis of the unknown estimated delivered exposure. A summary of the 2017 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 2017. A summary of the GEL quality assurance program results for the sample media types sent to GEL during 2017 is documented in Table 4.0-C. GEL Quality Assurance Program results not appearing in Table 4.0-C will be supplied upon request.

TABLE 4.0-A
ECKERT & ZIEGLER ANALYTICS
CROSS CHECK PROGRAM

2017 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in all four quarters of 2017. 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 84750 (IP 84750). Table 4.0-A lists the performance for specific samples. Eighty-seven nuclide results were reported to EZA of which eighty-six (98.9%) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E11755	Cs-137	1	pCi	247	244	1.01	Agreement
	E11925A	Cs-137	3	pCi	191	199	0.96	Agreement
Gamma in Cartridge	E11924	Ce-141	3	pCi	58.8	60.0	0.98	Agreement
		Co-58	3	pCi	81.0	80.7	1.00	Agreement
		Co-60	3	pCi	182	181	1.01	Agreement
		Cr-51	3	pCi	144	150	0.96	Agreement
		Cs-134	3	pCi	132	138	0.95	Agreement
		Cs-137	3	pCi	123	119	1.04	Agreement
		Fe-59	3	pCi	88.3	86.5	1.02	Agreement
		Mn-54	3	pCi	89.7	84.7	1.06	Agreement
		Zn-65	3	pCi	141	127	1.11	Agreement
LLI-131 in Water	E12007	I-131	4	pCi/L	58.8	57.7	1.02	Agreement
LLI-131 in Milk	E11889	I-131	2	pCi/L	95.4	96.3	0.99	Agreement
I-131 in Charcoal Cartridge	E11754	I-131	1	pCi	98.1	93.5	1.05	Agreement
	E12003	I-131	3	pCi	64.7	64.5	1.00	Agreement
Gamma in Simulated Vegetation (Coffee Grounds)	E12010	Ce-141	4	pCi/g	0.202	0.195	1.04	Agreement
		Co-58	4	pCi/g	0.181	0.178	1.02	Agreement
		Co-60	4	pCi/g	0.334	0.342	0.98	Agreement
		Cr-51	4	pCi/g	0.423	0.479	0.88	Agreement
		Cs-134	4	pCi/g	0.220	0.247	0.89	Agreement
		Cs-137	4	pCi/g	0.281	0.280	1.00	Agreement
		Fe-59	4	pCi/g	0.227	0.224	1.01	Agreement
		Mn-54	4	pCi/g	0.337	0.318	1.06	Agreement
		Zn-65	4	pCi/g	0.447	0.418	1.07	Agreement

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E11752	Ce-141	1	pCi	101	97.3	1.04	Agreement
		Cr-51	1	pCi	202	195	1.04	Agreement
		Cs-134	1	pCi	90.4	80.5	1.12	Agreement
		Cs-137	1	pCi	99.8	93.9	1.06	Agreement
		Co-58	1	pCi	106	100	1.06	Agreement
		Mn-54	1	pCi	126	110	1.14	Agreement
		Fe-59	1	pCi	101	86.4	1.17	Agreement
		Zn-65	1	pCi	164	134	1.22	Agreement
		Co-60	1	pCi	132	123	1.08	Agreement-
Gamma in Water	E11753	I-131	1	pCi/L	101	97.8	1.03	Agreement
		Ce-141	1	pCi/L	149	145	1.03	Agreement
		Cr-51	1	pCi/L	282	291	0.97	Agreement
		Cs-134	1	pCi/L	117	120	0.97	Agreement
		Cs-137	1	pCi/L	142	140	1.01	Agreement
		Co-58	1	pCi/L	154	150	1.03	Agreement
		Mn-54	1	pCi/L	174	165	1.06	Agreement
		Fe-59	1	pCi/L	139	129	1.08	Agreement
		Zn-65	1	pCi/L	226	200	1.13	Agreement
		Co-60	1	pCi/L	189	183	1.03	Agreement
Gamma in Water	E12006	I-131	3	pCi/L	71.8	79.2	0.91	Agreement
		Ce-141	3	pCi/L	105	99.5	1.06	Agreement
		Cr-51	3	pCi/L	240	248	0.97	Agreement
		Cs-134	3	pCi/L	208	229	0.91	Agreement
		Cs-137	3	pCi/L	202	196	1.03	Agreement
		Co-58	3	pCi/L	135	134	1.01	Agreement
		Mn-54	3	pCi/L	148	140	1.05	Agreement
		Fe-59	3	pCi/L	148	143	1.03	Agreement
		Zn-65	3	pCi/L	238	210	1.13	Agreement
		Co-60	3	pCi/L	294	299	0.98	Agreement

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Filter (Falcon)	E11890	Ce-141	2	pCi	119	114	1.04	Agreement
		Co-58	2	pCi	124	117	1.06	Agreement
		Co-60	2	pCi	150	144	1.04	Agreement
		Cr-51	2	pCi	240	238	1.01	Agreement
		Cs-134	2	pCi	148	142	1.04	Agreement
		Cs-137	2	pCi	122	113	1.08	Agreement
		Fe-59	2	pCi	107	87.0	1.23	Agreement
		Mn-54	2	pCi	146	130	1.13	Agreement
		Zn-65	2	pCi	200	154	1.30	Non-Agreement ¹
Gamma in Filter (Falcon)	E12011	Ce-141	4	pCi	82.5	76.2	1.08	Agreement
		Co-58	4	pCi	70.8	69.6	1.02	Agreement
		Co-60	4	pCi	144	134	1.07	Agreement
		Cr-51	4	pCi	202	188	1.08	Agreement
		Cs-134	4	pCi	97.4	96.7	1.01	Agreement
		Cs-137	4	pCi	119	110	1.09	Agreement
		Fe-59	4	pCi	98.5	87.9	1.12	Agreement
		Mn-54	4	pCi	132	125	1.06	Agreement
		Zn-65	4	pCi	181	164	1.11	Agreement
Gamma in Milk	E11756	I-131	1	pCi/L	105	97.9	1.07	Agreement
		Ce-141	1	pCi/L	149	145	1.03	Agreement
		Cr-51	1	pCi/L	331	290	1.14	Agreement
		Cs-134	1	pCi/L	116	120	0.97	Agreement
		Cs-137	1	pCi/L	150	140	1.07	Agreement
		Co-58	1	pCi/L	152	150	1.02	Agreement
		Mn-54	1	pCi/L	177	164	1.08	Agreement
		Fe-59	1	pCi/L	148	129	1.15	Agreement
		Zn-65	1	pCi/L	224	199	1.12	Agreement
		Co-60	1	pCi/L	194	183	1.06	Agreement
Gross Beta in Water	E11892	Cs-137	2	pCi/L	255	270	0.94	Agreement
	E12009	Cs-137	4	pCi/L	250	265	0.94	Agreement
Tritium in Water	E11891	H-3	2	pCi/L	14300	14000	1.02	Agreement
	E12008	H-3	4	pCi/L	13200	13400	0.98	Agreement

1) NCR # 02138003

TABLE 4.0-B

2017 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Nuclear Technology Services

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

1st Quarter 2017						2nd Quarter 2017					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
103469	79.16	72.16	9.70	<+/-15%	Pass	103126	20.33	18.90	7.57	<+/-15%	Pass
103632	83.94	72.16	16.32	<+/-15%	**Fail	103068	20.20	18.90	6.88	<+/-15%	Pass
103636	76.22	72.16	5.63	<+/-15%	Pass	103065	19.51	18.90	3.23	<+/-15%	Pass
103637	77.82	72.16	7.84	<+/-15%	Pass	102830	20.64	18.90	9.21	<+/-15%	Pass
103642	79.08	72.16	9.59	<+/-15%	Pass	103002	20.18	18.90	6.77	<+/-15%	Pass
Average Bias (B)		9.82				Average Bias (B)		6.73			
Standard Deviation (S)		4.00				Standard Deviation (S)		2.19			
Measure Performance B+S		13.81	<15%	Pass		Measure Performance B+S		8.92	<15%	Pass	
3rd Quarter 2017						4th Quarter 2017					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
102253	60.07	60.04	0.05	<+/-15%	Pass	102343	72.30	70.02	3.26	<+/-15%	Pass
101122	62.80	60.04	4.60	<+/-15%	Pass	102265	72.85	70.02	4.04	<+/-15%	Pass
103099	60.78	60.04	1.23	<+/-15%	Pass	102340	71.25	70.02	1.76	<+/-15%	Pass
102288	61.20	60.04	1.93	<+/-15%	Pass	103972	66.99	70.02	-4.33	<+/-15%	Pass
100163	59.82	60.04	-0.37	<+/-15%	Pass	103921	68.54	70.02	-2.11	<+/-15%	Pass
Average Bias (B)		1.49				Average Bias (B)		0.52			
Standard Deviation (S)		1.96				Standard Deviation (S)		3.60			
Measure Performance B+S		3.45	<15%	Pass		Measure Performance B+S		4.12	<15%	Pass	

Fail** refers to NCR #02147847

TABLE 4.0-B (Cont.)

2017 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.

1st Quarter 2017						2nd Quarter 2017					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
102207	49.22	48.0	2.54	<+-15%	Pass	102519	46.79	43.0	8.81	<+-15%	Pass
102208	47.57	48.0	-0.90	<+-15%	Pass	102870	49.18	43.0	14.37	<+-15%	Pass
103410	52.06	48.0	8.46	<+-15%	Pass	103537	46.05	43.0	7.09	<+-15%	Pass
102167	49.65	48.0	3.44	<+-15%	Pass	103541	47.33	43.0	10.07	<+-15%	Pass
102079	51.39	48.0	7.06	<+-15%	Pass	103111	48.21	43.0	12.12	<+-15%	Pass
103409	50.33	48.0	4.85	<+-15%	Pass	102304	45.04	43.0	4.74	<+-15%	Pass
102209	49.32	48.0	2.75	<+-15%	Pass	102873	47.59	43.0	10.67	<+-15%	Pass
102214	49.46	48.0	3.04	<+-15%	Pass	102872	47.85	43.0	11.28	<+-15%	Pass
102117	49.94	48.0	4.04	<+-15%	Pass	102871	47.80	43.0	11.16	<+-15%	Pass
102201	49.83	48.0	3.81	<+-15%	Pass	102861	48.11	43.0	11.88	<+-15%	Pass
Average Bias (B)						Average Bias (B)					
Standard Deviation (S)						Standard Deviation (S)					
Measure Performance B+S						Measure Performance B+S					
3rd Quarter 2017						4th Quarter 2017					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
101195	19.81	18.8	5.15	<+-15%	Pass	103951	50.92	50.0	1.84	<+-15%	Pass
103731	19.45	18.8	3.24	<+-15%	Pass	103949	51.06	50.0	2.12	<+-15%	Pass
101190	19.90	18.8	5.63	<+-15%	Pass	103950	51.04	50.0	2.08	<+-15%	Pass
103532	20.61	18.8	9.39	<+-15%	Pass	104011	51.38	50.0	2.76	<+-15%	Pass
100314	19.70	18.8	4.56	<+-15%	Pass	103931	51.10	50.0	2.20	<+-15%	Pass
101264	18.93	18.8	0.48	<+-15%	Pass	104004	50.74	50.0	1.48	<+-15%	Pass
101345	19.18	18.8	1.80	<+-15%	Pass	103996	49.63	50.0	-0.74	<+-15%	Pass
101397	20.06	18.8	6.48	<+-15%	Pass	103963	52.97	50.0	5.94	<+-15%	Pass
100868	20.45	18.8	8.55	<+-15%	Pass	103947	49.17	50.0	-1.66	<+-15%	Pass
103078	20.51	18.8	8.86	<+-15%	Pass	103929	49.88	50.0	-0.24	<+-15%	Pass
Average Bias (B)						Average Bias (B)					
Standard Deviation (S)						Standard Deviation (S)					
Measure Performance B+S						Measure Performance B+S					

TABLE 4.0-C
2017 ANNUAL QUALITY ASSURANCE REPORT
for the RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
for GEL Laboratories, LLC (GEL)

Sample	Nuclide	Quarter	Units	GEL Value	Known Value	Acceptance Range/Ratio	Evaluation
HTD in Soil							
MAPEP-17-MaS36	Fe-55	2	Bq/Kg	804	812	568 - 1056	Agreement
	Ni-63	2	Bq/Kg	-46	N/A	False Pos Test	Agreement
	Sr-90	2	Bq/Kg	548	624	437- 811	Agreement
MAPEP-17-MaS37	Fe-55	4	Bq/kg	933	1010	707 - 1313	Agreement
	Ni-63	4	Bq/kg	1240	1220	854 - 1586	Agreement
	Sr-90	4	Bq/kg	240	289	202 - 376	Agreement
I-131 in Milk with EZA							
E11820	I-131	1	pCi/L	95.7	96.8	0.99	Agreement
E11875	I-131	2	pCi/L	99.3	93.6	1.06	Agreement
E11928	I-131	3	pCi/L	73.5	71.0	1.04	Agreement
E12069	I-131	4	pCi/L	65.9	57.8	1.14	Agreement

Other GEL 2016 Annual Environmental Quality Assurance Report results will be supplied upon request.

TABLE 4.0-D
ECKERT & ZIEGLER ANALYTICS
CROSS CHECK PROGRAM
2017 Cross Check Results for BSEP Laboratories

Sample	Nuclide	Quarter	Units	BSEP Value	EZA Value	BSEP/EZA Ratio	Evaluation
Tritium in Water							
A32492	H-3	1	µCi/cc	8.70E-04	9.00E-04	0.97	Agreement
Gamma Solid							
	Ce-141	3	µCi	1.78E-02	1.76E-02	1.01	Agreement
A33040	Cr-51	3	µCi	5.15E-02	4.98E-02	1.03	Agreement
	Cs-134	3	µCi	1.88E-02	2.03E-02	0.93	Agreement
	Cs-137	3	µCi	1.76E-02	1.69E-02	1.04	Agreement
	Co-58	3	µCi	1.64E-02	1.60E-02	1.02	Agreement
	Mn-54	3	µCi	1.40E-02	1.30E-02	1.08	Agreement
	Fe-59	3	µCi	2.32E-02	2.09E-02	1.11	Agreement
	Zn-65	3	µCi	2.06E-02	1.99E-02	1.04	Agreement
	Co-60	3	µCi	2.62E-02	2.60E-02	1.01	Agreement

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 Brunswick Steam Electric Plant (BSEP) was required to ensure compliance with provisions of the Nuclear Regulatory Commission's Regulatory Guide 4.8, BSEP Technical Specifications, and the BSEP Offsite Dose Calculation Manual (ODCM). Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved at all laboratories (BSEP, EnRad, and GEL).

Environmental sampling was performed by BSEP and Environmental Water Resources Group; while the analyses were performed by BSEP, EnRad Laboratories, General Engineering Laboratory, LLC (GEL) (for special analyses), and Dosimetry and Records.

This appendix describes the environmental sampling frequencies and analysis procedures by media type that each laboratory conducted in 2017.

I. CHANGE OF SAMPLING PROCEDURES

The collection frequency was changed for BSEP Surface Water locations SW-495, SW-496, SW-497, SW-498, and SW-499 to a monthly grab sample for tritium and gamma per BSEP ODCM Rev. 38 Table 4.0-1 effective August 1, 2017. The frequency was listed as a weekly grab sample for tritium analysis and a monthly grab sample for gamma analysis in the previous BSEP ODCM revision.

Sample locations SW-605, SW-606, SW-608, and SW-610 were deleted from sampling per BSEP ODCM Rev. 38 Table 4.0-1 effective August 1, 2017.

The collection frequency was changed for BSEP Surface Water locations SW-494, SW-604, SW-607, and SW-609 to a monthly grab sample for tritium and gamma per BSEP ODCM Rev. 38 Table 4.0-1 effective August 1, 2017. The frequency was listed as a weekly grab sample for tritium and gamma in the previous BSEP ODCM revision.

Deleted the weekly composite gamma on Waypoint Composite (70) [B1065], Waypoint Composite (80) [B1066], and Waypoint Composite [B1067] per BSEP ODCM Rev. 38 Table 4.0-1 effective August 1, 2017.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Canberra analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish, invertebrates, and broadleaf vegetation are ground to achieve a homogeneous mixture and then transferred to an appropriate counting geometry. Soil and sediment samples are dried, sifted to remove foreign objects (rocks, clams, glass, etc.), and then transferred to an appropriate counting geometry container. Once prepared for counting, EnRad's samples (fish, invertebrates, broadleaf vegetation, soils, and sediments) are analyzed by gamma spectroscopy.

Tritium analyses are performed weekly and monthly by EnRad using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 2900TR liquid scintillation system or a 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 is performed weekly on air particulate filter samples by Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

BSEP and GEL Laboratories follow their facility approved procedures to meet the required BSEP ODCM LLDs.

III. CHANGE OF ANALYSIS PROCEDURES

The tritium preparation procedure was modified during 2017 to align with ASTM method D4107-08, Standard Test Method for Tritium in Drinking Water: Water and Environmental Technology. Volume 11.02. 2014 Edition. Tritium dark adaption times were also reduced (NCR # 02134015).

IV. SAMPLING AND ANALYSIS PROCEDURES

A.1 AIRBORNE PARTICULATE AND RADIOIODINE

Air particulate and radioiodine samples at each of seven 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 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 feet 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. The continuous composite samples were collected from the locations listed below.

Location 200	=	1.0 miles WSW Visitors Center
Location 201	=	0.5 miles NE Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC)
Location 202	=	1.0 miles S Substation, Construction Rd.
Location 203	=	2.0 miles SSW Southport substation
Location 204	=	22.4 miles NNE Sutton Plant (Historical Control)
Location 205	=	0.6 miles SSE Spoil Pond
Location 206	=	11.3 miles NW Brunswick County Complex (Control)

A.2 SURFACE WATER

A total of fifteen Surface Water samples are collected at different intervals as stated in the BSEP ODCM Rev. 37. Monthly composite surface water samples were collected from two locations (SW-400 and 401) for gamma and tritium analyses. Weekly and Monthly grab samples were collected from five locations (SW-495 – 499). The weekly grab samples were analyzed for tritium, while the monthly grab samples were analyzed for gamma emitters. Weekly grab samples were collected from eight locations (SW-494, 604 – 610) and analyzed for tritium and ODCM specific sample combination composite samples for gamma analysis. Surface water locations #605, #606, #608, and #610 were deleted from the BSEP REMP per BSEP ODCM Revision 38 effective August 1, 2017. The combination Waypoint Composite samples were also deleted with this revision; therefore, the total of eleven Surface Water samples are collected monthly. The samples are collected from the locations listed below.

Location 400	=	0.6 miles NE – Intake Canal (Control)
Location 401	=	4.9 miles SSW – Discharge Canal @ OD Pumps
Location 494	=	Nancy's Creek Marsh Area – WP-106
Location 495	=	Nancy's Creek – WP-52
Location 496	=	Nancy's Creek – WP-53
Location 497	=	Nancy's Creek – WP-55
Location 498	=	Nancy's Creek – WP-57
Location 499	=	Nancy's Creek – WP-61 (Control)
Location 604	=	Nancy's Creek Marsh Area – WP-92
Location 605	=	Nancy's Creek Marsh Area – WP-72 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>
Location 606	=	Nancy's Creek Marsh Area – WP-74 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>
Location 607	=	Nancy's Creek Marsh Area – WP-76
Location 608	=	Nancy's Creek Marsh Area – WP-82 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>
Location 609	=	Nancy's Creek Marsh Area – WP-84
Location 610	=	Nancy's Creek Marsh Area – WP-88 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>

Location 1065	=	Waypoint Composite (70) of Locations 605, 606, 607 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>
Location 1066	=	Waypoint Composite (80) of Locations 608, 609, 610 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>
Location 1067	=	Waypoint Composite of Locations 494 and 604 <small>(Removed from REMP per BSEP ODCM Rev. 38 Effective 8/1/17)</small>

A.3 GROUND WATER

Grab samples were collected quarterly and semiannually from ground water wells at ten locations. A tritium analysis was performed quarterly and a gamma analysis was performed semiannually on each sample. The samples were collected from the locations listed below.

Location 404	=	Monitoring Well ESS-1B - 0.16 miles SW
Location 407	=	Monitoring Well ESS-13B - 0.06 miles ENE
Location 409	=	Monitoring Well ESS-17A - 0.65 miles NE
Location 410	=	Monitoring Well ESS-17B - 0.65 miles NE
Location 418	=	Monitoring Well ESS-21B – Near SDSP
Location 423	=	Monitoring Well ESS-24A – Near SDSP
Location 424	=	Monitoring Well ESS-24B – Near SDSP
Location 426	=	Monitoring Well ESS-25B – Near SDSP
Location 429	=	Monitoring Well ESS-27A – Near SDSP
Location 612	=	Monitoring Well ESS MWPA-118B – Near Intake Canal & Plant Stack

Note: SDSP = Storm Drain Stabilization Pond

A.4 BROADLEAF VEGETATION

Monthly samples were collected at each of five locations during 2017. A gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 800	=	0.7 miles NE – Intake Canal
Location 801	=	0.8 miles SW – Discharge Canal
Location 802	=	10.1 miles – location not specified (Control)
Location 803	=	0.6 miles SSE – Spoil Pond
Location 804	=	0.7 miles S – Leonard Street plant exit adjacent to RR tracks

A.5 FISH and INVERTEBRATES

Fish (free swimmers and bottom feeders) and Invertebrates (shell fish and/or benthic organisms) samples are collected semiannually from two locations (near the Atlantic Ocean discharge pipe at Caswell Beach and a control location in the Atlantic Ocean not influenced by plant operations) and annually from three locations on Nancy's Creek (see Figure 2.1-5). A gamma analysis was performed on the edible portions of each sample. The samples were collected from the locations listed below.

Location 700	=	5.5 miles SSW - Atlantic Ocean @ discharge (free swimmers)
Location 701	=	5.5 miles SSW – Atlantic Ocean @ discharge (bottom feeders)
Location 702	=	5.5 miles SSW – Atlantic Ocean @ discharge (shellfish/ Invertebrates)
Location 703	=	Atlantic Ocean; location not specified (free swimmer) – (Control)
Location 704	=	Atlantic Ocean; location not specified (bottom feeders) – (Control)
Location 705	=	Atlantic Ocean; location not specified (shellfish/ Invertebrates)
Location 706	=	Nancy's Creek; location not specified (free swimmer)
Location 707	=	Nancy's Creek; location not specified (bottom feeders)
Location 708	=	Nancy's Creek; location not specified (shellfish/ Invertebrates)

A.6 SHORELINE SEDIMENT

Semiannual samples were collected at one location (SS-500), while an annual sample was collected at another location (SS-501). A gamma analysis was performed on each sample following the drying and removal of rocks and clams. If activity attributed to plant operations is detected in the annual shoreline sediment gamma analysis for SS-501, then the sample is analyzed for Hard-to-detect radionuclides (Fe-55 and Sr-89, 90) by a vendor laboratory (GEL) and the sample frequency is increased to semiannually. The samples were collected from the locations listed below.

Location 500	=	5.0 miles SSW – Discharge; Beach near Ocean Discharge (OD) pumps
Location 501	=	Nancy's Creek, Adjacent to WP-55, Near Storm Drain Stabilization Pond

A.7 DIRECT GAMMA RADIATION (TLD)

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-five locations and four quarterly ISFSI TLDs. A gamma exposure rate was determined for each TLD. TLD locations are listed in Table 2.1-C. The TLDs were placed as indicated below.

- * An inner ring of 24 TLDs, one in each meteorological sector in the general area of the site boundary.
- * An outer ring of 20 TLDs, one in each meteorological sector at 8 kilometers or greater from the site.
- * The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and at one control location.

A.8 ANNUAL LAND USE CENSUS

An Annual Land Use Census was conducted to identify within a distance of 5.0 miles (8 kilometers) from the plant, the nearest location from the site boundary in each of the sixteen meteorological sectors, the following:

- The Nearest Residence
- The Nearest Garden greater than 50 square meters or 500 square feet, producing broadleaf vegetation
- The Nearest Milk-giving Animal (cow, goat, etc.)

The Annual Land Use Census must also identify (for elevated releases) within the three-mile (4.8 kilometer) radius of the plant (a garden census) for each of the 16 meteorological sectors for the following:

- The location of all milk animals
- The location of all gardens of greater than 500 square feet (or 50 square meters), producing broadleaf vegetation.

The census was conducted during the growing season from June 2 through 29, 2017. Results are shown in Tables 3.8-A and 3.8-B. No changes were made to the sampling procedures during 2017 as a result of the 2017 BSEP census.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2017

BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
 Brunswick County, North Carolina

Docket Numbers: 50-324 and 325
 Calendar Year: 2017

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⁾ Name, Distance, and Direction		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
Air Particulate (pCi/m ³)	Gross Beta 371 ⁽⁴⁾⁽⁹⁾	See Table 2.2-C	1.72E-2 (265/265) 5.72E-3 – 3.37E-2	Loc. # 203 Southport Substation 2.0 miles SSW	1.77E-2 (53/53) 7.62E-3 – 3.37E-2	Loc. # 204 & 206 1.76E-2 (106/106) 8.31E-3 – 3.32E-2	0
	Gamma ⁽⁵⁾ 35 ⁽⁹⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	I-131 371 ⁽⁴⁾⁽⁹⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma ⁽⁵⁾ 60 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Fish and Invertebrates (pCi/kg, wet)	Gamma ⁽⁵⁾ 15	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Sediments -- Shoreline (pCi/kg, dry)	Gamma ⁽⁵⁾ 4	See Table 2.2-C	1.13E+2 (1/4) Single Value	Loc. # 501 Nancy's Creek adjacent to WP-55 near SDSP	1.13E+2 (1/2) Single Value	No Control	0
	Cs-137	-----	All less than LLD	-----	-----	No Control	0
	Hard-to-detects (Fe-55, Ni-63, Sr-89/90)	-----	4				

BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)

Brunswick Steam Electric Plant
 Brunswick County, North Carolina

Docket Numbers: 50-324 and 325
 Calendar Year: 2017

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⁾ Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
Surface Water (pCi/l)	Gamma ⁽⁵⁾ 194	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 459	3,000 ⁽⁷⁾	8.99E+2 (28/412) 2.29E+2 – 5.60E+3	Loc. # 494 Nancy's Creek Marsh Area WP-106	1.33E+3 (3/35) 2.29E+2 – 3.45E+3	All less than LLD	0
Ground Water (pCi/l)	Gamma ⁽⁵⁾ 20	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
	Tritium 40	3,000 ⁽⁷⁾	3.76E+2 (3/40) 3.06E+2 – 4.28E+2	Loc. # 407 Monitoring Well ESS-13B 0.06 miles ENE	3.76E+2 (3/4) 3.06E+2 – 4.28E+2	No Control	0
Direct Radiation (TLD) (mR per std. quarter) ⁽⁶⁾	TLD Readout 177 ⁽⁴⁾	-----	1.01E+1 (173/173) 5.60E+0 – 1.64E+1	Loc. # 24 3.0 miles W	1.46E+1 (4/4) 1.29E+1 – 1.63E+1	Loc. #81 1.08E+1 (4/4) 9.20E+0 – 1.20E+1	0
Direct Radiation ISFSI (TLD - ISFSI) (mR per std. quarter) ⁽⁶⁾	TLD Readout 16	-----	2.23E+1 (16/16) 1.67E+1 – 2.90E+1	Loc. # 85 SE Corner of ISFSI 0.09 miles ENE	2.57E+1 (4/4) 2.43E+1 – 2.78E+1	No Control	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. Summary of gamma analysis results in this report does not include the following naturally occurring isotopes since most environmental samples contained some or all of these: Be-7, K-40, Tl-208, Pb-212, Bi-214, Pb-214, and Ra-226.
6. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).
7. Tritium Lower Limit of Detection (LLD) is approximately 2.00E+2 pCi/L for samples that typically demonstrate activity less than the LLD.
8. The tritium reporting limit for Fish per General Engineering Laboratories (GEL) is 4.0E+3 pCi/kilogram.
9. Gamma filter composite calendar reconciliation period, 2017 (NCR # 02174810).

APPENDIX C

SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES

APPENDIX C

BRUNSWICK NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

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

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodines

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”. 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 BSEP REMP air samplers operated for a total of 99.90% availability in 2017.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
202	1/03/17 – 1/10/17	PI	5.4 hrs. downtime due to power interruption caused by work on a transformer substation.	NCR # 02089971
206	2/21/17 – 2/28/17	PI	2.9 hrs. downtime due to power interruption caused by a blown fuse on the air sampler.	NCR # 02103422
202	2/28/17 – 3/07/17	PI	2.5 hrs. downtime due to power interruption caused by blown fuse on the air sampler.	NCR # 02104511
202	2/28/17 – 3/07/17	PI	24.8 hrs. downtime due to substation work (planned work, but took longer than anticipated).	NCR # 02105184
203	5/23/17 – 5/30/17	PI	1.2 hrs. downtime due to power interruption due to severe thunderstorms in the area.	NCR # 02127499
201	8/15/17 – 8/22/17	PS	No noted downtime. The air sampler pump was running, but sampler had no flow. Motor continued to run. Sampler replaced.	NCR # 02145478
206	10/24/17 – 10/31/17	PI	0.80 hrs. downtime due to power interruption due to thunderstorms in the area.	NCR # 02162766
205	12/05/17 – 12/12/17	PI	20.5 hrs. downtime due to power interruption due to a tripped breaker.	NCR # 02171576
205	12/12/17 – 12/19/17	PI	3.9 hrs. downtime due to power interruption due to a tripped breaker.	NCR # 02171929

C.2 UNAVAILABLE ANALYSES

TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
30	4/4/17 – 7/7/17 (2 nd Qtr. 2017)	OT	The TLD was located on a power pole that was removed when power was run underground. The area was searched, but the TLD could not be located.	NCR # 02135452
22	7/7/17 – 10/4/17 (3 rd Qtr. 2017)	OT	Power Pole that the TLD was located on was painted. The TLD was found on the ground beside the power pole it had been attached to. The TLD was not in its designated location - TLD not valid.	NCR # 02155997
76	7/7/17 – 10/4/17 (3 rd Qtr. 2017)	OT	The TLD was missing from its designated location, a power pole. The power pole had been painted. The area was searched, but the TLD was not found.	NCR # 02155715

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

BRUNSWICK NUCLEAR PLANT

ANALYTICAL DEVIATIONS

While BSEP was analyzing weekly waterborne surface water composite samples per BSEP ODCM Revision 37 at the BSEP Bio-Lab, it was identified that three surface water composite samples (see table below) collected per BSEP ODCM Table 7.3.15-1 were not analyzed by BSEP in the required timeframe stated in the BSEP ODCM (NCR # 02128415). This occurrence was due to equipment malfunctions. The instrument needed to analyze these samples at the BSEP Bio-Lab was out of service during this timeframe and unable to perform the required gamma analysis. This resulted in the samples collected on 5/23/17 exceeding the stated time limit for the weekly gamma analysis ($7 \text{ days} \pm 25\% [1.75 \text{ days}] = 8.75 \text{ days}$). The samples typically analyzed at the BSEP Bio-Lab are being analyzed at the BSEP RCA Chemistry Lab until the malfunctioning equipment in the BSEP Bio-Lab is repaired. This is not a reportable event per verification with BSEP Regulatory Affairs.

Sample Manager ID	ODCM - Sample Point Description	Collection Date	Analysis Date
444197	Waypoint Composite (70) ⁽¹⁾ - B1065	5/23/17	6/1/17
444198	Waypoint Composite (80) ⁽²⁾ - B1066	5/23/17	6/1/17
444199	Waypoint Composite ⁽³⁾ - B1067	5/23/17	6/5/17

(1) Waypoint Composite (70) - (B1065) of ODCM samples #605 (Nancy's Creek Marsh Area - WP-72), sample #606 (Nancy's Creek Marsh Area - WP-74), and sample #607 (Nancy's Creek Marsh Area - WP-76).

(2) Waypoint Composite (80) - (B1066) of ODCM samples #608 (Nancy's Creek Marsh Area - WP-82), sample #609 (Nancy's Creek Marsh Area - WP-84), and sample #610 (Nancy's Creek Marsh Area - WP-88).

(3) Waypoint Composite - (B1067) of ODCM samples #494 (Nancy's Creek Marsh Area - WP-106) and sample #604 (Nancy's Creek Marsh Area - WP-92).

This sampling program is implemented to fulfill sampling requirements described in the Brunswick Steam Electric Plant (BNP) OFF-SITE DOSE CALCULATION MANUAL (ODCM) Section 4.0 (Radiological Environmental Monitoring Program); Sections 7.3, 7.3.15 (ODCM Specifications for Radiological Environmental Monitoring Program), and Table 7.3.15-1. Sampling program deviations such as these are documented in the BSEP Annual Radiological Environmental Operating Report (AREOR) each year in Appendix D - Analytical Deviations (NCR # 02128415).

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2017

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2017.

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432162	12/27/2016 - 1/3/2017	Beta	1.84E-02	5.13E-03	6.89E-03
432867	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.63E-02	4.61E-03	6.34E-03
433267	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.33E-02	4.80E-03	6.83E-03
433684	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.14E-02	3.99E-03	5.68E-03
434419	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.02E-02	5.16E-03	6.71E-03
435063	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.98E-02	4.89E-03	6.09E-03
435773	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.46E-02	4.41E-03	6.14E-03
436223	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.23E-02	5.00E-03	7.39E-03
436674	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.04E-02	4.68E-03	6.99E-03
437535	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.63E-02	4.39E-03	5.90E-03
438265	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.20E-02	4.69E-03	6.86E-03
438768	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.78E-02	4.36E-03	5.63E-03
439111	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.31E-02	5.01E-03	6.09E-03
439118	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.10E-03	0.00E+00	1.10E-03
		Cs-137	<8.72E-04	0.00E+00	8.72E-04
		Be-7	1.57E-01	3.13E-02	1.85E-02
		K-40	1.28E-02	8.59E-03	3.85E-03
439964	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.12E-02	3.91E-03	5.59E-03
440562	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.62E-02	4.60E-03	6.04E-03
441376	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.03E-02	5.12E-03	6.73E-03
441821	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.66E-02	3.94E-03	4.92E-03
442249	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.30E-02	4.64E-03	6.64E-03
442835	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.86E-02	4.83E-03	6.39E-03
443263	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.29E-02	4.08E-03	4.33E-03
443821	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.88E-02	4.72E-03	6.04E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
444215	5/23/2017 - 5/30/2017	Beta	1.53E-02	4.08E-03	5.47E-03
445285	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.87E-02	4.93E-03	6.53E-03
446284	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.05E-02	3.79E-03	5.47E-03
446788	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.53E-02	3.87E-03	4.97E-03
447114	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.20E-02	4.33E-03	6.14E-03
447121	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.53E-03	0.00E+00	1.53E-03
		Cs-137	<7.48E-04	0.00E+00	7.48E-04
		Be-7	1.60E-01	3.27E-02	2.19E-02
		K-40	<1.85E-02	0.00E+00	1.85E-02
447767	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.37E-02	4.92E-03	7.20E-03
448231	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.56E-02	4.44E-03	5.91E-03
448857	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	7.48E-03	4.05E-03	6.25E-03
449173	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.43E-02	4.45E-03	6.11E-03
449912	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.50E-02	4.16E-03	5.66E-03
450157	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.34E-02	3.89E-03	5.28E-03
450690	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.04E-02	3.66E-03	5.21E-03
451141	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.59E-02	3.81E-03	4.78E-03
451503	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.49E-02	4.53E-03	6.14E-03
452307	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.46E-02	4.85E-03	6.92E-03
452750	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.73E-02	4.13E-03	5.26E-03
453396	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.00E-02	4.42E-03	5.59E-03
454155	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.27E-02	4.62E-03	5.75E-03
454162	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.31E-03	0.00E+00	2.31E-03
		Cs-137	<2.66E-03	0.00E+00	2.66E-03
		Be-7	1.23E-01	4.59E-02	4.58E-02
		K-40	<6.00E-02	0.00E+00	6.00E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
455022	9/26/2017 - 10/3/2017	Beta	1.93E-02	4.49E-03	5.75E-03
455377	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.55E-02	4.61E-03	6.30E-03
455994	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.55E-03	3.87E-03	5.51E-03
461378	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.60E-02	4.62E-03	6.20E-03
461924	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.90E-02	4.38E-03	5.63E-03
462560	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.28E-02	4.30E-03	4.89E-03
463044	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.02E-02	4.87E-03	6.16E-03
463468	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.76E-02	5.26E-03	6.01E-03
464127	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.62E-02	5.50E-03	6.74E-03
464657	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.80E-02	5.36E-03	6.33E-03
464918	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.80E-02	5.30E-03	7.38E-03
465173	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.61E-02	5.47E-03	6.73E-03
465548	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.67E-02	4.93E-03	5.35E-03
465555	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.14E-03	0.00E+00	3.14E-03
		Cs-137	<3.37E-03	0.00E+00	3.37E-03
		Be-7	1.16E-01	5.00E-02	5.80E-02
		K-40	<4.33E-02	0.00E+00	4.33E-02
465935	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.25E-02	5.94E-03	6.95E-03
		Cs-134	<3.11E-02	0.00E+00	3.11E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	2.59E-01	1.73E-01	2.52E-01
		K-40	<4.08E-01	0.00E+00	4.08E-01

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432163	12/27/2016 - 1/3/2017	Beta	1.70E-02	5.02E-03	6.84E-03
432868	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.41E-02	4.45E-03	6.29E-03
433268	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.52E-02	4.90E-03	6.78E-03
433685	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.36E-02	4.12E-03	5.65E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
434420	1/24/2017 - 1/31/2017	Beta	2.20E-02	5.24E-03	6.69E-03
435064	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.42E-02	5.17E-03	6.07E-03
435774	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.62E-02	4.48E-03	6.10E-03
436224	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.36E-02	5.05E-03	7.34E-03
436675	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.15E-02	4.73E-03	6.96E-03
437536	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.42E-02	4.27E-03	5.90E-03
438266	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.01E-02	4.53E-03	6.78E-03
438769	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.65E-02	4.20E-03	5.49E-03
439112	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.37E-02	5.06E-03	6.11E-03
439119	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.00E-03	0.00E+00	1.00E-03
		Cs-137	<1.12E-03	0.00E+00	1.12E-03
		Be-7	1.42E-01	3.20E-02	2.58E-02
		K-40	<2.51E-02	0.00E+00	2.51E-02
439965	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.96E-03	3.80E-03	5.65E-03
440563	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.36E-02	4.42E-03	6.05E-03
441377	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.84E-02	5.07E-03	6.83E-03
441822	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.45E-02	3.88E-03	5.03E-03
442250	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.90E-03	4.56E-03	6.86E-03
442836	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.63E-02	4.77E-03	6.52E-03
443264	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.78E-02	4.45E-03	4.44E-03
443822	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.13E-02	5.01E-03	6.26E-03
444216	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.38E-02	4.09E-03	5.66E-03
445286	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.52E-02	4.85E-03	6.76E-03
446285	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.05E-03	3.73E-03	5.65E-03
446789	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.09E-02	3.69E-03	5.15E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
447115	6/20/2017 - 6/27/2017	Beta	1.35E-02	4.56E-03	6.37E-03
447122	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.25E-03	0.00E+00	1.25E-03
		Cs-137	<5.55E-04	0.00E+00	5.55E-04
		Be-7	1.20E-01	2.59E-02	1.72E-02
		K-40	<2.34E-02	0.00E+00	2.34E-02
447768	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.67E-02	5.21E-03	7.40E-03
448232	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.44E-02	4.56E-03	6.23E-03
448858	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.92E-03	4.29E-03	6.48E-03
449174	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	6.34E-03	4.04E-03	6.35E-03
449913	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.23E-02	4.12E-03	5.86E-03
450158	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.32E-02	4.00E-03	5.47E-03
450691	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.34E-03	3.70E-03	5.41E-03
451142	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.38E-02	5.14E-03	7.33E-03
451504	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.43E-02	4.56E-03	6.28E-03
452308	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.39E-02	4.86E-03	7.00E-03
452751	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.55E-02	4.05E-03	5.31E-03
453397	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.86E-02	4.36E-03	5.65E-03
454156	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.21E-02	4.62E-03	5.80E-03
454163	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.51E-03	0.00E+00	2.51E-03
		Cs-137	<3.83E-03	0.00E+00	3.83E-03
		Be-7	8.46E-02	4.23E-02	5.07E-02
		K-40	<5.04E-02	0.00E+00	5.04E-02
455023	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.73E-02	4.26E-03	5.56E-03
455378	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.72E-02	4.75E-03	6.37E-03
455995	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.25E-02	4.13E-03	5.59E-03
461379	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.37E-02	5.14E-03	6.29E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
461925	10/24/2017 - 10/31/2017	Beta	1.15E-02	3.97E-03	5.68E-03
462561	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.42E-02	4.42E-03	4.98E-03
463045	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.84E-02	4.78E-03	6.20E-03
463469	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.53E-02	5.15E-03	6.06E-03
464128	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.52E-02	5.47E-03	6.80E-03
464658	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.89E-02	5.46E-03	6.42E-03
464919	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.73E-02	5.33E-03	7.50E-03
465174	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.87E-02	5.61E-03	6.75E-03
465549	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.00E-02	5.16E-03	5.40E-03
465556	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<4.03E-03	0.00E+00	4.03E-03
		Cs-137	<2.64E-03	0.00E+00	2.64E-03
		Be-7	1.17E-01	5.00E-02	5.99E-02
		K-40	<4.38E-02	0.00E+00	4.38E-02
465936	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.80E-02	5.72E-03	6.95E-03
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	2.26E-01	1.47E-01	2.09E-01
		K-40	<4.87E-01	0.00E+00	4.87E-01

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432164	12/27/2016 - 1/3/2017	Beta	1.28E-02	4.81E-03	6.95E-03
432869	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.30E-02	4.57E-03	6.62E-03
433269	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.84E-02	5.15E-03	6.86E-03
433686	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.60E-02	4.29E-03	5.71E-03
434421	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.66E-02	4.97E-03	6.77E-03
435065	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.63E-02	5.35E-03	6.16E-03
435775	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.91E-02	4.71E-03	6.19E-03
436225	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.52E-02	5.23E-03	7.46E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	436676	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	5.05E-03	7.02E-03
Sample ID:	437537	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	4.90E-03	6.76E-03
Sample ID:	438267	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.01E-02	4.52E-03	6.79E-03
Sample ID:	438770	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	4.38E-03	5.57E-03
Sample ID:	439113	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	4.88E-03	6.12E-03
Sample ID:	439120	Sample Dates:	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<9.38E-04	0.00E+00	9.38E-04
				Cs-137	<9.62E-04	0.00E+00	9.62E-04
				Be-7	1.83E-01	3.40E-02	2.14E-02
				K-40	1.94E-02	1.38E-02	1.83E-02
Sample ID:	439966	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	3.88E-03	5.64E-03
Sample ID:	440564	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	4.57E-03	6.06E-03
Sample ID:	441378	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	5.21E-03	6.79E-03
Sample ID:	441823	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	3.99E-03	5.00E-03
Sample ID:	442251	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	4.62E-03	6.79E-03
Sample ID:	442837	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	4.70E-03	6.50E-03
Sample ID:	443265	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	4.29E-03	4.43E-03
Sample ID:	443823	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	4.97E-03	6.17E-03
Sample ID:	444217	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	4.25E-03	5.59E-03
Sample ID:	445287	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	4.83E-03	6.61E-03
Sample ID:	446286	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.11E-03	3.82E-03	5.67E-03
Sample ID:	446790	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	3.96E-03	5.08E-03
Sample ID:	447116	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	4.71E-03	6.28E-03
Sample ID:	447123	Sample Dates:	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.19E-03	0.00E+00	1.19E-03
				Cs-137	<1.03E-03	0.00E+00	1.03E-03
				Be-7	1.35E-01	2.89E-02	2.12E-02
				K-40	2.32E-02	1.44E-02	1.78E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
447769	6/27/2017 - 7/4/2017	Beta	8.77E-03	4.74E-03	7.39E-03
448233	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.30E-02	4.37E-03	6.06E-03
448859	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.32E-03	4.26E-03	6.40E-03
449175	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.72E-03	2.14E-03	3.08E-03
449914	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.31E-02	4.12E-03	5.79E-03
450159	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.32E-02	3.94E-03	5.40E-03
450692	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.87E-03	3.63E-03	5.33E-03
451143	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.57E-02	3.87E-03	4.91E-03
451505	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.60E-02	4.68E-03	6.30E-03
452309	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.15E-02	4.73E-03	7.05E-03
452752	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.99E-02	4.35E-03	5.38E-03
453398	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.83E-02	4.39E-03	5.72E-03
454157	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.31E-02	4.71E-03	5.87E-03
454164	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.00E-03	0.00E+00	3.00E-03
		Cs-137	<3.22E-03	0.00E+00	3.22E-03
		Be-7	3.34E-02	4.99E-02	8.33E-02
		K-40	<4.82E-02	0.00E+00	4.82E-02
455024	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.31E-03	5.66E-03
455379	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.41E-02	4.60E-03	6.43E-03
455996	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.13E-02	4.08E-03	5.65E-03
461380	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.91E-02	4.88E-03	6.34E-03
461926	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.40E-02	4.17E-03	5.78E-03
462562	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.36E-02	4.41E-03	5.02E-03
463046	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.98E-02	4.92E-03	6.29E-03
463470	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.43E-02	5.15E-03	6.15E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
464129	11/21/2017 - 11/28/2017	Beta	2.69E-02	5.63E-03	6.88E-03
464659	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.17E-02	5.64E-03	6.47E-03
464920	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.78E-02	5.39E-03	7.56E-03
465175	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.24E-02	5.90E-03	6.88E-03
465550	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.07E-02	5.26E-03	5.48E-03
465557	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.10E-03	0.00E+00	2.10E-03
		Cs-137	<2.81E-03	0.00E+00	2.81E-03
		Be-7	1.14E-01	4.90E-02	5.67E-02
		K-40	5.96E-02	2.93E-02	9.50E-03
465937	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.44E-02	5.58E-03	7.07E-03
		Cs-134	<3.43E-02	0.00E+00	3.43E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<2.70E-01	0.00E+00	2.70E-01
		K-40	4.06E-01	2.13E-01	2.00E-01

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432165	12/27/2016 - 1/3/2017	Beta	1.51E-02	5.08E-03	7.13E-03
432870	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.66E-02	4.79E-03	6.64E-03
433270	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.94E-03	6.64E-03
433687	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.41E-02	4.05E-03	5.49E-03
434422	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.15E-02	5.56E-03	7.26E-03
435066	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.37E-02	6.41E-03	7.16E-03
435776	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.43E-02	4.34E-03	6.05E-03
436226	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.37E-02	5.01E-03	7.25E-03
436677	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.83E-02	5.20E-03	7.02E-03
437538	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.53E-02	4.23E-03	5.71E-03
438268	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.06E-02	4.60E-03	6.85E-03
438771	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.12E-02	4.54E-03	5.60E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
439114	3/21/2017 - 3/28/2017	Beta	2.57E-02	5.22E-03	6.18E-03
439121	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<9.85E-04	0.00E+00	9.85E-04
		Cs-137	<1.18E-03	0.00E+00	1.18E-03
		Be-7	1.79E-01	3.50E-02	2.42E-02
		K-40	<2.47E-02	0.00E+00	2.47E-02
439967	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.20E-02	4.01E-03	5.69E-03
440565	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.45E-02	4.53E-03	6.12E-03
441379	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.78E-02	5.06E-03	6.87E-03
441824	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.61E-02	3.97E-03	5.05E-03
442252	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	7.62E-03	4.40E-03	6.83E-03
442838	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.84E-03	6.56E-03
443266	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.56E-02	4.33E-03	4.46E-03
443824	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.17E-02	5.02E-03	6.23E-03
444218	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.43E-02	4.13E-03	5.67E-03
445288	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.57E-02	4.87E-03	6.75E-03
446287	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.26E-02	4.02E-03	5.65E-03
446791	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.26E-02	3.77E-03	5.12E-03
447117	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.29E-02	4.49E-03	6.33E-03
447124	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.23E-03	0.00E+00	1.23E-03
		Be-7	1.16E-01	2.90E-02	3.03E-02
		K-40	<2.11E-02	0.00E+00	2.11E-02
447770	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.47E-02	5.11E-03	7.43E-03
448234	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.54E-02	4.55E-03	6.09E-03
448860	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.19E-03	4.21E-03	6.43E-03
449176	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.33E-02	4.48E-03	6.28E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
449915	7/25/2017 - 8/1/2017	Beta	1.36E-02	4.17E-03	5.82E-03
450160	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.54E-02	4.10E-03	5.42E-03
450693	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.18E-03	3.66E-03	5.36E-03
451144	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.29E-02	3.72E-03	4.94E-03
451506	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.76E-02	4.79E-03	6.31E-03
452310	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.24E-02	4.82E-03	7.12E-03
452753	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.19E-03	5.38E-03
453399	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.66E-02	4.32E-03	5.74E-03
454158	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.20E-02	4.67E-03	5.89E-03
454165	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.21E-03	0.00E+00	3.21E-03
		Cs-137	<2.34E-03	0.00E+00	2.34E-03
		Be-7	1.86E-01	5.73E-02	5.08E-02
		K-40	<6.86E-02	0.00E+00	6.86E-02
455025	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.38E-02	4.11E-03	5.67E-03
455380	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.49E-03	4.31E-03	6.45E-03
455997	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.49E-02	4.34E-03	5.67E-03
461381	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.01E-02	4.97E-03	6.37E-03
461927	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.93E-02	4.48E-03	5.79E-03
462563	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.49E-02	4.51E-03	5.06E-03
463047	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.08E-02	5.00E-03	6.31E-03
463471	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.23E-02	5.04E-03	6.16E-03
464130	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.86E-02	5.73E-03	6.90E-03
464660	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.23E-02	5.70E-03	6.51E-03
464921	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.29E-02	5.69E-03	7.58E-03
465176	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.24E-02	5.91E-03	6.89E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	465551	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.59E-02	4.97E-03	5.49E-03
Sample ID:	465558	Sample Dates:	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<4.05E-03	0.00E+00	4.05E-03
				Cs-137	<3.10E-03	0.00E+00	3.10E-03
				Be-7	1.75E-01	6.00E-02	6.70E-02
				K-40	<4.74E-02	0.00E+00	4.74E-02
Sample ID:	465938	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	5.49E-03	7.05E-03
				Cs-134	<2.45E-02	0.00E+00	2.45E-02
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<2.40E-01	0.00E+00	2.40E-01
				K-40	<3.61E-01	0.00E+00	3.61E-01

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	432166	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	5.10E-03	7.06E-03
Sample ID:	432871	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	4.59E-03	6.43E-03
Sample ID:	433271	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	4.95E-03	6.87E-03
Sample ID:	433688	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	4.19E-03	5.76E-03
Sample ID:	434423	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	5.02E-03	6.83E-03
Sample ID:	435067	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.73E-02	5.42E-03	6.18E-03
Sample ID:	435777	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	4.37E-03	6.22E-03
Sample ID:	436227	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	5.37E-03	7.48E-03
Sample ID:	436678	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.10E-02	4.75E-03	7.07E-03
Sample ID:	437539	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	4.35E-03	5.66E-03
Sample ID:	438269	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	4.65E-03	6.82E-03
Sample ID:	438772	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	4.53E-03	5.54E-03
Sample ID:	439115	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	4.97E-03	6.14E-03
Sample ID:	439122	Sample Dates:	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.28E-03	0.00E+00	1.28E-03
				Cs-137	<8.32E-04	0.00E+00	8.32E-04
				Be-7	1.64E-01	3.12E-02	1.87E-02
				K-40	2.03E-02	1.20E-02	1.23E-02
Sample ID:	439968	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.36E-03	3.77E-03	5.66E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
440566	4/4/2017 - 4/11/2017	Beta	1.56E-02	4.54E-03	6.04E-03
441380	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.37E-02	5.36E-03	6.81E-03
441825	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.26E-02	3.72E-03	5.01E-03
442253	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.21E-02	4.65E-03	6.77E-03
442839	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.66E-02	4.82E-03	6.57E-03
443267	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.46E-02	4.23E-03	4.40E-03
443825	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.46E-02	5.13E-03	6.13E-03
444219	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.40E-02	4.11E-03	5.64E-03
445289	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.72E-02	4.93E-03	6.69E-03
446288	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.19E-02	3.97E-03	5.64E-03
446792	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.49E-02	3.89E-03	5.05E-03
447118	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.24E-02	4.45E-03	6.31E-03
447125	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.22E-03	0.00E+00	1.22E-03
		Cs-137	<1.10E-03	0.00E+00	1.10E-03
		Be-7	1.32E-01	2.76E-02	1.93E-02
		K-40	<2.63E-02	0.00E+00	2.63E-02
447771	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.17E-02	4.91E-03	7.38E-03
448235	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.22E-02	4.33E-03	6.10E-03
448861	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.02E-02	4.32E-03	6.40E-03
449177	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.72E-02	4.70E-03	6.25E-03
449916	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.42E-02	4.18E-03	5.77E-03
450161	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.59E-02	4.10E-03	5.40E-03
450694	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.06E-02	3.72E-03	5.31E-03
451145	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.02E-02	4.14E-03	4.90E-03
451507	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.47E-02	4.57E-03	6.24E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
452311	8/29/2017 - 9/5/2017	Beta	1.03E-02	4.67E-03	7.07E-03
452754	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.64E-02	4.14E-03	5.35E-03
453400	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.72E-02	4.30E-03	5.66E-03
454159	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.01E-02	4.52E-03	5.82E-03
454166	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.65E-03	0.00E+00	3.65E-03
		Cs-137	<3.36E-03	0.00E+00	3.36E-03
		Be-7	1.37E-01	5.44E-02	6.35E-02
		K-40	2.71E-02	2.25E-02	2.92E-02
455026	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.88E-02	4.37E-03	5.59E-03
455381	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.50E-03	4.28E-03	6.40E-03
455998	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.17E-02	4.09E-03	5.62E-03
461382	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.12E-02	4.98E-03	6.29E-03
461928	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.80E-02	4.40E-03	5.76E-03
462564	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.42E-02	4.44E-03	4.98E-03
463048	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.34E-02	4.46E-03	6.20E-03
463472	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.86E-02	5.37E-03	6.10E-03
464131	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.46E-02	5.45E-03	6.82E-03
464661	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.31E-02	5.77E-03	6.56E-03
464922	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.28E-02	5.58E-03	7.40E-03
465177	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.65E-02	5.53E-03	6.80E-03
465552	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.64E-02	5.01E-03	5.50E-03
465559	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.41E-03	0.00E+00	2.41E-03
		Cs-137	<2.99E-03	0.00E+00	2.99E-03
		Be-7	1.28E-01	4.75E-02	4.94E-02
		K-40	<4.83E-02	0.00E+00	4.83E-02
465939	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.03E-02	5.79E-03	6.86E-03
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<2.45E-01	0.00E+00	2.45E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	465939	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.14E-01	0.00E+00	4.14E-01
Sample Point 205 [INDICATOR - SSE @ 0.6 miles]							
Sample ID:	432167	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	4.98E-03	6.71E-03
Sample ID:	432872	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	4.52E-03	6.18E-03
Sample ID:	433272	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	4.59E-03	6.65E-03
Sample ID:	433689	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	4.01E-03	5.54E-03
Sample ID:	434424	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	4.76E-03	6.54E-03
Sample ID:	435068	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	5.14E-03	5.99E-03
Sample ID:	435778	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	4.43E-03	6.03E-03
Sample ID:	436228	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	5.11E-03	7.28E-03
Sample ID:	436679	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	4.83E-03	6.88E-03
Sample ID:	437540	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	4.39E-03	5.75E-03
Sample ID:	438270	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	4.70E-03	6.91E-03
Sample ID:	438773	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	4.54E-03	5.67E-03
Sample ID:	439116	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	5.01E-03	6.23E-03
Sample ID:	439123	Sample Dates:	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.26E-03	0.00E+00	1.26E-03
				Cs-137	<1.00E-03	0.00E+00	1.00E-03
				Be-7	1.71E-01	3.09E-02	1.13E-02
				K-40	<2.46E-02	0.00E+00	2.46E-02
Sample ID:	439969	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.17E-02	4.03E-03	5.75E-03
Sample ID:	440567	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.43E-02	4.55E-03	6.17E-03
Sample ID:	441381	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	5.09E-03	6.93E-03
Sample ID:	441826	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	3.95E-03	5.10E-03
Sample ID:	442254	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.79E-03	4.60E-03	6.94E-03
Sample ID:	442840	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	4.93E-03	6.66E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
443268	5/9/2017 - 5/16/2017	Beta	2.71E-02	4.46E-03	4.56E-03
443826	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.79E-02	4.86E-03	6.36E-03
444220	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.27E-02	4.09E-03	5.76E-03
445290	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.92E-02	5.14E-03	6.83E-03
446289	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.93E-03	3.90E-03	5.86E-03
446793	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.28E-02	3.89E-03	5.28E-03
447119	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.40E-02	4.68E-03	6.53E-03
447126	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<9.79E-04	0.00E+00	9.79E-04
		Cs-137	<9.00E-04	0.00E+00	9.00E-04
		Be-7	1.22E-01	2.73E-02	1.80E-02
		K-40	1.75E-02	1.02E-02	3.94E-03
447772	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.34E-02	5.19E-03	7.69E-03
448236	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.30E-02	4.50E-03	6.30E-03
448862	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.19E-03	4.34E-03	6.66E-03
449178	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.08E-02	4.44E-03	6.51E-03
449917	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.41E-02	4.34E-03	6.06E-03
450162	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.57E-02	4.24E-03	5.65E-03
450695	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.13E-03	3.71E-03	5.58E-03
451146	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.11E-03	5.17E-03
451508	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.83E-02	5.00E-03	6.60E-03
452312	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.54E-02	5.18E-03	7.43E-03
452755	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.73E-02	4.33E-03	5.62E-03
453401	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.86E-02	4.57E-03	6.00E-03
454160	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.83E-02	4.62E-03	6.16E-03
454167	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<4.08E-03	0.00E+00	4.08E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
454167	6/27/2017 - 9/26/2017	Cs-137	<3.13E-03	0.00E+00	3.13E-03
		Be-7	7.57E-02	4.83E-02	6.85E-02
		K-40	<6.04E-02	0.00E+00	6.04E-02
455027	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.47E-02	4.34E-03	5.96E-03
455382	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.19E-03	4.46E-03	6.75E-03
455999	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.29E-02	4.35E-03	5.94E-03
461383	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.81E-02	5.00E-03	6.65E-03
461929	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.52E-02	4.40E-03	6.04E-03
462565	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.37E-02	4.57E-03	5.26E-03
463049	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.19E-02	5.26E-03	6.62E-03
463473	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.65E-02	5.45E-03	6.44E-03
464132	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.85E-02	5.91E-03	7.21E-03
464662	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.53E-02	5.49E-03	6.79E-03
464923	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.63E-02	6.13E-03	8.99E-03
465178	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.81E-02	5.94E-03	7.34E-03
465553	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.85E-02	5.27E-03	5.72E-03
465560	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.75E-03	0.00E+00	2.75E-03
		Cs-137	<3.17E-03	0.00E+00	3.17E-03
		Be-7	1.70E-01	5.96E-02	6.36E-02
		K-40	<6.97E-02	0.00E+00	6.97E-02
465940	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.97E-02	6.08E-03	7.40E-03
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<2.80E-01	0.00E+00	2.80E-01
		K-40	5.99E-01	3.19E-01	4.04E-01

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432168	12/27/2016 - 1/3/2017	Beta	1.54E-02	5.16E-03	7.23E-03
432873	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.59E-02	4.71E-03	6.56E-03
433273	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.93E-02	5.34E-03	7.07E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
433690	1/17/2017 - 1/24/2017	Beta	1.34E-02	4.20E-03	5.81E-03
434425	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.67E-02	5.02E-03	6.86E-03
435069	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.01E-02	5.04E-03	6.30E-03
435779	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.62E-02	4.65E-03	6.39E-03
436229	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.38E-02	5.33E-03	7.79E-03
436680	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.34E-02	4.96E-03	7.13E-03
437541	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.79E-02	3.93E-03	4.94E-03
438271	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.17E-02	4.48E-03	6.53E-03
438774	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.75E-02	4.30E-03	5.54E-03
439117	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.08E-02	4.93E-03	6.18E-03
439124	12/27/2016 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.42E-03	0.00E+00	1.42E-03
		Cs-137	<1.03E-03	0.00E+00	1.03E-03
		Be-7	1.57E-01	3.26E-02	2.32E-02
		K-40	<2.72E-02	0.00E+00	2.72E-02
439970	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.13E-02	3.95E-03	5.66E-03
440568	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.57E-02	4.58E-03	6.09E-03
441382	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.10E-02	5.26E-03	6.90E-03
441827	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.32E-02	3.79E-03	5.06E-03
442255	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.13E-02	4.64E-03	6.83E-03
442841	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.51E-02	4.78E-03	6.66E-03
443269	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.50E-02	4.29E-03	4.47E-03
443827	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.25E-02	5.06E-03	6.22E-03
444221	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.49E-02	4.21E-03	5.74E-03
445291	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.27E-02	5.34E-03	6.82E-03
446290	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	8.31E-03	3.82E-03	5.76E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
446794	6/13/2017 - 6/20/2017	Beta	1.53E-02	3.96E-03	5.15E-03
447120	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.13E-02	4.45E-03	6.45E-03
447127	3/28/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<7.27E-04	0.00E+00	7.27E-04
		Cs-137	<1.02E-03	0.00E+00	1.02E-03
		Be-7	1.50E-01	3.05E-02	1.97E-02
		K-40	<2.49E-02	0.00E+00	2.49E-02
447773	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	9.99E-03	4.91E-03	7.55E-03
448237	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.22E-02	4.43E-03	6.26E-03
448863	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.10E-02	4.48E-03	6.58E-03
449179	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.32E-02	4.55E-03	6.42E-03
449918	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.04E-02	4.65E-03	5.96E-03
450163	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.47E-02	4.14E-03	5.56E-03
450696	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.21E-02	3.94E-03	5.50E-03
451147	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.68E-02	4.04E-03	5.08E-03
451509	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.71E-02	4.88E-03	6.47E-03
452313	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.46E-02	5.08E-03	7.32E-03
452756	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.28E-03	5.53E-03
453402	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.75E-02	4.43E-03	5.86E-03
454161	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.30E-02	4.81E-03	6.02E-03
454168	6/27/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<3.69E-03	0.00E+00	3.69E-03
		Cs-137	<3.00E-03	0.00E+00	3.00E-03
		Be-7	1.36E-01	6.55E-02	8.86E-02
		K-40	6.43E-02	3.80E-02	4.70E-02
455028	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.79E-02	4.42E-03	5.79E-03
455383	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.26E-02	4.62E-03	6.61E-03
456000	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.31E-02	4.32E-03	5.82E-03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
461384	10/17/2017 - 10/24/2017	Beta	2.34E-02	5.26E-03	6.50E-03
461930	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.95E-02	4.60E-03	5.97E-03
462566	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.03E-02	4.87E-03	5.14E-03
463050	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	1.70E-02	4.83E-03	6.44E-03
463474	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.69E-02	5.41E-03	6.34E-03
464133	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.51E-02	5.64E-03	7.07E-03
464663	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.32E-02	5.92E-03	6.80E-03
464924	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.02E-02	5.60E-03	7.67E-03
465179	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.93E-02	5.81E-03	7.01E-03
465554	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.69E-02	5.16E-03	5.69E-03
465561	9/26/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.54E-03	0.00E+00	2.54E-03
		Cs-137	<2.69E-03	0.00E+00	2.69E-03
		Be-7	1.17E-01	5.26E-02	6.62E-02
		K-40	<5.86E-02	0.00E+00	5.86E-02
465941	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.84E-02	5.85E-03	7.15E-03
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	1.22E-01	2.75E-01	4.79E-01

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432169	12/27/2016 - 1/3/2017	I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	7.34E-01	2.59E-01	5.85E-02
432874	1/3/2017 - 1/10/2017	I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<3.05E-03	0.00E+00	3.05E-03
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	6.65E-01	2.79E-01	2.41E-01
433274	1/10/2017 - 1/17/2017	I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<9.88E-02	0.00E+00	9.88E-02
		K-40	1.03E+00	3.25E-01	6.49E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	433691	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.87E-02	0.00E+00	1.87E-02
				Cs-134	<1.50E-02	0.00E+00	1.50E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<9.66E-02	0.00E+00	9.66E-02
				K-40	8.10E-01	2.92E-01	2.30E-01
Sample ID:	434426	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<8.57E-02	0.00E+00	8.57E-02
				K-40	6.32E-01	2.74E-01	2.42E-01
Sample ID:	435070	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.99E-02	0.00E+00	1.99E-02
				Cs-134	<1.72E-02	0.00E+00	1.72E-02
				Cs-137	<1.86E-02	0.00E+00	1.86E-02
				Be-7	<1.46E-01	0.00E+00	1.46E-01
				K-40	9.33E-01	3.74E-01	4.13E-01
Sample ID:	435780	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.37E-02	0.00E+00	1.37E-02
				Cs-134	<9.70E-03	0.00E+00	9.70E-03
				Cs-137	<1.21E-02	0.00E+00	1.21E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	8.17E-01	3.10E-01	2.92E-01
Sample ID:	436230	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.37E-01	0.00E+00	1.37E-01
				K-40	8.10E-01	3.42E-01	3.73E-01
Sample ID:	436681	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<1.49E-02	0.00E+00	1.49E-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	6.25E-01	2.93E-01	3.18E-01
Sample ID:	437542	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.08E-02	0.00E+00	1.08E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.23E-01	0.00E+00	1.23E-01
				K-40	9.00E-01	3.09E-01	2.34E-01
Sample ID:	438272	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.06E-01	0.00E+00	1.06E-01
				K-40	9.59E-01	3.08E-01	6.19E-02
Sample ID:	438775	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.31E-02	0.00E+00	2.31E-02
				Cs-134	<1.49E-02	0.00E+00	1.49E-02
				Cs-137	<1.58E-02	0.00E+00	1.58E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	1.03E+00	3.18E-01	6.09E-02
Sample ID:	439125	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.15E-02	0.00E+00	2.15E-02
				Cs-134	<1.62E-02	0.00E+00	1.62E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	439125	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<9.33E-03	0.00E+00	9.33E-03
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	8.22E-01	3.15E-01	3.06E-01
Sample ID:	439971	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.17E-02	0.00E+00	2.17E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.60E-02	0.00E+00	1.60E-02
				Be-7	<8.01E-02	0.00E+00	8.01E-02
				K-40	9.23E-01	2.98E-01	6.10E-02
Sample ID:	440569	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<1.20E-02	0.00E+00	1.20E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	6.20E-01	2.67E-01	2.72E-01
Sample ID:	441383	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.57E-02	0.00E+00	1.57E-02
				Cs-134	<1.40E-02	0.00E+00	1.40E-02
				Cs-137	<1.39E-02	0.00E+00	1.39E-02
				Be-7	<7.00E-02	0.00E+00	7.00E-02
				K-40	9.52E-01	2.88E-01	5.37E-02
Sample ID:	441828	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.65E-02	0.00E+00	1.65E-02
				Cs-137	<1.42E-02	0.00E+00	1.42E-02
				Be-7	<7.11E-02	0.00E+00	7.11E-02
				K-40	<5.55E-01	0.00E+00	5.55E-01
Sample ID:	442256	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.86E-02	0.00E+00	1.86E-02
				Cs-137	<1.48E-02	0.00E+00	1.48E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	6.82E-01	2.61E-01	1.99E-01
Sample ID:	442842	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.33E-02	0.00E+00	1.33E-02
				Cs-134	<1.04E-02	0.00E+00	1.04E-02
				Cs-137	<1.30E-02	0.00E+00	1.30E-02
				Be-7	<1.09E-01	0.00E+00	1.09E-01
				K-40	6.25E-01	2.56E-01	2.37E-01
Sample ID:	443270	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.55E-02	0.00E+00	1.55E-02
				Cs-134	<1.12E-02	0.00E+00	1.12E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<1.36E-01	0.00E+00	1.36E-01
				K-40	8.94E-01	2.97E-01	2.22E-01
Sample ID:	443828	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.01E-02	0.00E+00	2.01E-02
				Cs-134	<7.56E-03	0.00E+00	7.56E-03
				Cs-137	<9.39E-03	0.00E+00	9.39E-03
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	7.30E-01	2.59E-01	5.82E-02
Sample ID:	444222	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.45E-02	0.00E+00	1.45E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<7.21E-02	0.00E+00	7.21E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	444222	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.19E-01	0.00E+00	4.19E-01
Sample ID:	445292	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.43E-02	0.00E+00	1.43E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<7.62E-02	0.00E+00	7.62E-02
				K-40	5.21E-01	2.82E-01	3.56E-01
Sample ID:	446291	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.55E-02	0.00E+00	1.55E-02
				Cs-134	<1.45E-02	0.00E+00	1.45E-02
				Cs-137	<1.11E-02	0.00E+00	1.11E-02
				Be-7	<9.32E-02	0.00E+00	9.32E-02
				K-40	<4.31E-01	0.00E+00	4.31E-01
Sample ID:	446795	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<1.34E-02	0.00E+00	1.34E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	<4.18E-01	0.00E+00	4.18E-01
Sample ID:	447128	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.07E-02	0.00E+00	1.07E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	8.30E-01	2.72E-01	5.63E-02
Sample ID:	447774	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.58E-02	0.00E+00	1.58E-02
				Cs-134	<1.35E-02	0.00E+00	1.35E-02
				Cs-137	<1.28E-02	0.00E+00	1.28E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	<3.78E-01	0.00E+00	3.78E-01
Sample ID:	448238	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.64E-02	0.00E+00	1.64E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<9.01E-02	0.00E+00	9.01E-02
				K-40	2.97E-01	1.93E-01	2.32E-01
Sample ID:	448864	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<9.48E-03	0.00E+00	9.48E-03
				Cs-137	<2.30E-02	0.00E+00	2.30E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	1.90E-01	1.73E-01	2.48E-01
Sample ID:	449180	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<9.58E-03	0.00E+00	9.58E-03
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<2.06E-02	0.00E+00	2.06E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	2.96E-01	1.84E-01	2.02E-01
Sample ID:	449919	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.74E-02	0.00E+00	1.74E-02
				Cs-134	<1.21E-02	0.00E+00	1.21E-02
				Cs-137	<1.62E-02	0.00E+00	1.62E-02
				Be-7	<8.95E-02	0.00E+00	8.95E-02
				K-40	<3.98E-01	0.00E+00	3.98E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	450164	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.63E-02	0.00E+00	1.63E-02
				Cs-134	<1.53E-02	0.00E+00	1.53E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<6.94E-02	0.00E+00	6.94E-02
				K-40	3.40E-01	2.09E-01	2.64E-01
Sample ID:	450697	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.90E-02	0.00E+00	1.90E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	2.46E-01	1.91E-01	2.66E-01
Sample ID:	451148	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<9.94E-02	0.00E+00	9.94E-02
				K-40	7.56E-01	2.54E-01	5.39E-02
Sample ID:	451510	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.46E-02	0.00E+00	1.46E-02
				Cs-134	<1.26E-02	0.00E+00	1.26E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	<4.43E-01	0.00E+00	4.43E-01
Sample ID:	452314	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.55E-02	0.00E+00	1.55E-02
				Cs-134	<1.13E-02	0.00E+00	1.13E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<8.25E-02	0.00E+00	8.25E-02
				K-40	2.24E-01	1.82E-01	2.54E-01
Sample ID:	452757	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.29E-02	0.00E+00	1.29E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<8.36E-02	0.00E+00	8.36E-02
				K-40	<4.11E-01	0.00E+00	4.11E-01
Sample ID:	453403	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.83E-02	0.00E+00	1.83E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<7.86E-02	0.00E+00	7.86E-02
				K-40	<3.32E-01	0.00E+00	3.32E-01
Sample ID:	454169	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.13E-02	0.00E+00	1.13E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-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	4.42E-01	2.36E-01	2.63E-01
Sample ID:	455029	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.91E-02	0.00E+00	3.91E-02
				Cs-134	<3.31E-02	0.00E+00	3.31E-02
				Cs-137	<2.73E-02	0.00E+00	2.73E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	8.48E-01	3.69E-01	4.27E-01
Sample ID:	455384	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.05E-02	0.00E+00	3.05E-02
				Cs-134	<2.98E-02	0.00E+00	2.98E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
455384	10/3/2017 - 10/10/2017	Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
		K-40	<5.50E-01	0.00E+00	5.50E-01
456001	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.64E-02	0.00E+00	3.64E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<3.24E-02	0.00E+00	3.24E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	3.83E-01	2.50E-01	3.28E-01
461385	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.02E-02	0.00E+00	4.02E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	1.01E+00	3.67E-01	3.37E-01
461931	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.45E-02	0.00E+00	5.45E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	8.72E-01	3.06E-01	2.78E-01
462567	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.85E-02	0.00E+00	3.85E-02
		Cs-134	<3.37E-02	0.00E+00	3.37E-02
		Cs-137	<3.56E-02	0.00E+00	3.56E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	7.30E-01	3.80E-01	4.98E-01
463051	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.87E-02	0.00E+00	4.87E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<2.55E-01	0.00E+00	2.55E-01
		K-40	8.68E-01	3.79E-01	4.37E-01
463475	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.31E-02	0.00E+00	5.31E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	7.99E-01	3.06E-01	3.53E-01
464134	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.22E-02	0.00E+00	5.22E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	1.42E+00	4.46E-01	4.03E-01
464664	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.49E-02	0.00E+00	4.49E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<3.47E-02	0.00E+00	3.47E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	9.80E-01	3.69E-01	3.64E-01
464925	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.44E-02	0.00E+00	4.44E-02
		Cs-134	<3.68E-02	0.00E+00	3.68E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<2.54E-01	0.00E+00	2.54E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 200 [INDICATOR - WSW @ 1 miles]

Sample ID:	464925	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.50E-01	3.43E-01	2.58E-01
Sample ID:	465180	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.58E-02	0.00E+00	4.58E-02
				Cs-134	<3.08E-02	0.00E+00	3.08E-02
				Cs-137	<3.89E-02	0.00E+00	3.89E-02
				Be-7	<2.72E-01	0.00E+00	2.72E-01
				K-40	8.55E-01	4.13E-01	5.28E-01
Sample ID:	465562	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.53E-02	0.00E+00	5.53E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.89E-02	0.00E+00	2.89E-02
				Be-7	<2.41E-01	0.00E+00	2.41E-01
				K-40	8.27E-01	3.53E-01	4.32E-01
Sample ID:	465942	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.59E-02	0.00E+00	5.59E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<3.25E-02	0.00E+00	3.25E-02
				Be-7	<2.46E-01	0.00E+00	2.46E-01
				K-40	9.31E-01	3.54E-01	4.34E-01

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	432170	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.90E-02	0.00E+00	1.90E-02
				Cs-134	<1.43E-02	0.00E+00	1.43E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	9.82E-01	3.32E-01	2.47E-01
Sample ID:	432875	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.49E-02	0.00E+00	1.49E-02
				Cs-134	<1.51E-02	0.00E+00	1.51E-02
				Cs-137	<2.22E-02	0.00E+00	2.22E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	1.00E+00	3.14E-01	6.16E-02
Sample ID:	433275	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.09E-02	0.00E+00	2.09E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.39E-02	0.00E+00	1.39E-02
				Be-7	<8.95E-02	0.00E+00	8.95E-02
				K-40	8.33E-01	2.95E-01	2.21E-01
Sample ID:	433692	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.40E-02	0.00E+00	1.40E-02
				Cs-134	<1.65E-02	0.00E+00	1.65E-02
				Cs-137	<1.62E-02	0.00E+00	1.62E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	5.95E-01	2.92E-01	3.52E-01
Sample ID:	434427	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<1.90E-02	0.00E+00	1.90E-02
				Cs-137	<9.22E-03	0.00E+00	9.22E-03
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	8.61E-01	2.83E-01	5.83E-02
Sample ID:	435071	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.32E-02	0.00E+00	1.32E-02
				Cs-137	<1.88E-02	0.00E+00	1.88E-02
				Be-7	<7.51E-02	0.00E+00	7.51E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	435071	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.25E-01	3.11E-01	2.22E-01
Sample ID:	435781	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.17E-02	0.00E+00	2.17E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	4.21E-01	2.53E-01	3.27E-01
Sample ID:	436231	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.08E-02	0.00E+00	1.08E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	7.88E-01	2.69E-01	5.77E-02
Sample ID:	436682	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.52E-02	0.00E+00	1.52E-02
				Cs-134	<1.40E-02	0.00E+00	1.40E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	1.10E+00	3.22E-01	5.74E-02
Sample ID:	437543	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.19E-02	0.00E+00	2.19E-02
				Cs-134	<1.60E-02	0.00E+00	1.60E-02
				Cs-137	<1.88E-02	0.00E+00	1.88E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	7.72E-01	3.06E-01	3.04E-01
Sample ID:	438273	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.60E-02	0.00E+00	1.60E-02
				Cs-134	<1.69E-02	0.00E+00	1.69E-02
				Cs-137	<1.29E-02	0.00E+00	1.29E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	6.13E-01	2.57E-01	2.39E-01
Sample ID:	438776	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.36E-02	0.00E+00	1.36E-02
				Cs-137	<1.19E-02	0.00E+00	1.19E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	9.97E-01	3.53E-01	3.43E-01
Sample ID:	439126	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.15E-02	0.00E+00	2.15E-02
				Cs-134	<1.70E-02	0.00E+00	1.70E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<8.81E-02	0.00E+00	8.81E-02
				K-40	8.46E-01	2.81E-01	5.88E-02
Sample ID:	439972	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<1.43E-02	0.00E+00	1.43E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	7.01E-01	2.62E-01	1.96E-01
Sample ID:	440570	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.12E-02	0.00E+00	2.12E-02
				Cs-134	<1.82E-02	0.00E+00	1.82E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	8.23E-01	3.24E-01	3.23E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	441384	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.07E-02	0.00E+00	1.07E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<9.38E-02	0.00E+00	9.38E-02
				K-40	1.01E+00	3.03E-01	5.60E-02
Sample ID:	441829	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.50E-02	0.00E+00	1.50E-02
				Cs-134	<1.07E-02	0.00E+00	1.07E-02
				Cs-137	<1.33E-02	0.00E+00	1.33E-02
				Be-7	<8.53E-02	0.00E+00	8.53E-02
				K-40	8.46E-01	3.15E-01	3.11E-01
Sample ID:	442257	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	7.01E-01	2.65E-01	2.10E-01
Sample ID:	442843	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.87E-02	0.00E+00	1.87E-02
				Cs-134	<1.71E-02	0.00E+00	1.71E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	7.23E-01	2.63E-01	6.12E-02
Sample ID:	443271	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.66E-02	0.00E+00	1.66E-02
				Cs-134	<1.10E-02	0.00E+00	1.10E-02
				Cs-137	<1.66E-02	0.00E+00	1.66E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	9.20E-01	3.38E-01	3.35E-01
Sample ID:	443829	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.45E-02	0.00E+00	1.45E-02
				Cs-134	<1.66E-02	0.00E+00	1.66E-02
				Cs-137	<1.55E-02	0.00E+00	1.55E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	<4.33E-01	0.00E+00	4.33E-01
Sample ID:	444223	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.48E-02	0.00E+00	1.48E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<2.20E-02	0.00E+00	2.20E-02
				Be-7	<1.19E-01	0.00E+00	1.19E-01
				K-40	3.41E-01	1.92E-01	2.00E-01
Sample ID:	445293	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<1.27E-02	0.00E+00	1.27E-02
				Cs-137	<1.30E-02	0.00E+00	1.30E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	2.14E-01	1.70E-01	2.26E-01
Sample ID:	446292	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<1.72E-02	0.00E+00	1.72E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.06E-01	0.00E+00	1.06E-01
				K-40	2.88E-01	1.83E-01	1.97E-01
Sample ID:	446796	Sample Dates:	6/13/2017 - 6/20/2017	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

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	446796	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<2.54E-02	0.00E+00	2.54E-02
				Be-7	<1.36E-01	0.00E+00	1.36E-01
				K-40	5.40E-01	2.21E-01	5.85E-02
Sample ID:	447129	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<1.33E-02	0.00E+00	1.33E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<9.74E-02	0.00E+00	9.74E-02
				K-40	3.90E-01	2.12E-01	2.25E-01
Sample ID:	447775	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.63E-02	0.00E+00	1.63E-02
				Cs-134	<1.61E-02	0.00E+00	1.61E-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	3.38E-01	2.15E-01	2.64E-01
Sample ID:	448239	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.00E-02	0.00E+00	2.00E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<2.08E-02	0.00E+00	2.08E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	<5.33E-01	0.00E+00	5.33E-01
Sample ID:	448865	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.36E-02	0.00E+00	2.36E-02
				Cs-134	<1.27E-02	0.00E+00	1.27E-02
				Cs-137	<2.38E-02	0.00E+00	2.38E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	<5.44E-01	0.00E+00	5.44E-01
Sample ID:	449181	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.29E-02	0.00E+00	2.29E-02
				Cs-134	<1.62E-02	0.00E+00	1.62E-02
				Cs-137	<2.30E-02	0.00E+00	2.30E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	5.02E-01	2.35E-01	2.21E-01
Sample ID:	449920	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<8.77E-03	0.00E+00	8.77E-03
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	<4.25E-01	0.00E+00	4.25E-01
Sample ID:	450165	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.51E-02	0.00E+00	1.51E-02
				Cs-134	<1.19E-02	0.00E+00	1.19E-02
				Cs-137	<1.96E-02	0.00E+00	1.96E-02
				Be-7	<9.53E-02	0.00E+00	9.53E-02
				K-40	3.04E-01	2.07E-01	2.71E-01
Sample ID:	450698	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.62E-02	0.00E+00	1.62E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.36E-01	0.00E+00	1.36E-01
				K-40	4.97E-01	2.12E-01	5.86E-02
Sample ID:	451149	Sample Dates:	8/15/2017 - 8/22/2017	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	<3.36E-02	0.00E+00	3.36E-02
				Be-7	<1.91E-01	0.00E+00	1.91E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	451149	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	5.55E-01	2.96E-01	2.89E-01
Sample ID:	451511	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.20E-02	0.00E+00	1.20E-02
				Cs-134	<1.42E-02	0.00E+00	1.42E-02
				Cs-137	<1.66E-02	0.00E+00	1.66E-02
				Be-7	<1.38E-01	0.00E+00	1.38E-01
				K-40	<3.67E-01	0.00E+00	3.67E-01
Sample ID:	452315	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<1.32E-02	0.00E+00	1.32E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<8.19E-02	0.00E+00	8.19E-02
				K-40	3.04E-01	1.80E-01	1.96E-01
Sample ID:	452758	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.33E-02	0.00E+00	2.33E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<8.74E-02	0.00E+00	8.74E-02
				K-40	4.33E-01	2.17E-01	2.12E-01
Sample ID:	453404	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.58E-02	0.00E+00	1.58E-02
				Cs-134	<1.17E-02	0.00E+00	1.17E-02
				Cs-137	<1.83E-02	0.00E+00	1.83E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	3.45E-01	2.02E-01	2.34E-01
Sample ID:	454170	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.03E-02	0.00E+00	1.03E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	2.92E-01	1.73E-01	1.81E-01
Sample ID:	455030	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.08E-02	0.00E+00	3.08E-02
				Cs-134	<2.76E-02	0.00E+00	2.76E-02
				Cs-137	<2.98E-02	0.00E+00	2.98E-02
				Be-7	<1.85E-01	0.00E+00	1.85E-01
				K-40	5.37E-01	2.45E-01	2.03E-01
Sample ID:	455385	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.30E-02	0.00E+00	3.30E-02
				Cs-134	<2.57E-02	0.00E+00	2.57E-02
				Cs-137	<2.36E-02	0.00E+00	2.36E-02
				Be-7	<2.17E-01	0.00E+00	2.17E-01
				K-40	1.48E-01	2.76E-01	4.74E-01
Sample ID:	456002	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.51E-02	0.00E+00	2.51E-02
				Cs-134	<2.83E-02	0.00E+00	2.83E-02
				Cs-137	<2.31E-02	0.00E+00	2.31E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID:	461386	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.53E-02	0.00E+00	4.53E-02
				Cs-134	<3.31E-02	0.00E+00	3.31E-02
				Cs-137	<3.63E-02	0.00E+00	3.63E-02
				Be-7	<2.28E-01	0.00E+00	2.28E-01
				K-40	1.14E+00	3.94E-01	3.59E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	461932	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.49E-02	0.00E+00	5.49E-02
				Cs-134	<2.53E-02	0.00E+00	2.53E-02
				Cs-137	<2.67E-02	0.00E+00	2.67E-02
				Be-7	<1.81E-01	0.00E+00	1.81E-01
				K-40	1.34E+00	6.83E-01	2.23E-01
Sample ID:	462568	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.09E-02	0.00E+00	4.09E-02
				Cs-134	<3.92E-02	0.00E+00	3.92E-02
				Cs-137	<3.88E-02	0.00E+00	3.88E-02
				Be-7	<2.33E-01	0.00E+00	2.33E-01
				K-40	9.53E-01	3.77E-01	3.96E-01
Sample ID:	463052	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.50E-02	0.00E+00	4.50E-02
				Cs-134	<3.87E-02	0.00E+00	3.87E-02
				Cs-137	<3.69E-02	0.00E+00	3.69E-02
				Be-7	<2.68E-01	0.00E+00	2.68E-01
				K-40	1.05E+00	4.15E-01	4.65E-01
Sample ID:	463476	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.59E-02	0.00E+00	5.59E-02
				Cs-134	<3.07E-02	0.00E+00	3.07E-02
				Cs-137	<2.92E-02	0.00E+00	2.92E-02
				Be-7	<2.02E-01	0.00E+00	2.02E-01
				K-40	6.67E-01	2.86E-01	3.33E-01
Sample ID:	464135	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.80E-02	0.00E+00	4.80E-02
				Cs-134	<3.63E-02	0.00E+00	3.63E-02
				Cs-137	<4.04E-02	0.00E+00	4.04E-02
				Be-7	<2.32E-01	0.00E+00	2.32E-01
				K-40	1.01E+00	4.19E-01	4.91E-01
Sample ID:	464665	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.42E-02	0.00E+00	4.42E-02
				Cs-134	<4.02E-02	0.00E+00	4.02E-02
				Cs-137	<3.24E-02	0.00E+00	3.24E-02
				Be-7	<2.29E-01	0.00E+00	2.29E-01
				K-40	7.64E-01	3.81E-01	4.87E-01
Sample ID:	464926	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.47E-02	0.00E+00	4.47E-02
				Cs-134	<2.80E-02	0.00E+00	2.80E-02
				Cs-137	<3.30E-02	0.00E+00	3.30E-02
				Be-7	<2.65E-01	0.00E+00	2.65E-01
				K-40	1.00E+00	3.73E-01	3.38E-01
Sample ID:	465181	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.82E-02	0.00E+00	4.82E-02
				Cs-134	<3.24E-02	0.00E+00	3.24E-02
				Cs-137	<3.72E-02	0.00E+00	3.72E-02
				Be-7	<1.98E-01	0.00E+00	1.98E-01
				K-40	9.64E-01	4.14E-01	4.92E-01
Sample ID:	465563	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.56E-02	0.00E+00	5.56E-02
				Cs-134	<2.50E-02	0.00E+00	2.50E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<2.10E-01	0.00E+00	2.10E-01
				K-40	8.59E-01	2.58E-01	2.13E-01
Sample ID:	465943	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.71E-02	0.00E+00	4.71E-02
				Cs-134	<2.00E-02	0.00E+00	2.00E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 201 [INDICATOR - NE @ 0.5 miles]

Sample ID:	465943	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.79E-02	0.00E+00	1.79E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	1.11E+00	2.71E-01	2.11E-01

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	432171	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.35E-02	0.00E+00	1.35E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	6.62E-01	2.65E-01	2.23E-01

Sample ID:	432876	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.23E-01	0.00E+00	1.23E-01
				K-40	6.69E-01	2.55E-01	6.25E-02

Sample ID:	433276	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.43E-02	0.00E+00	1.43E-02
				Cs-134	<1.22E-02	0.00E+00	1.22E-02
				Cs-137	<1.51E-02	0.00E+00	1.51E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	6.87E-01	2.83E-01	2.71E-01

Sample ID:	433693	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.95E-02	0.00E+00	1.95E-02
				Cs-134	<1.60E-02	0.00E+00	1.60E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	1.01E+00	3.44E-01	2.86E-01

Sample ID:	434428	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.45E-02	0.00E+00	1.45E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	1.27E+00	3.60E-01	6.25E-02

Sample ID:	435072	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.88E-02	0.00E+00	1.88E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.45E-02	0.00E+00	1.45E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	7.90E-01	2.97E-01	2.31E-01

Sample ID:	435782	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-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	<9.36E-02	0.00E+00	9.36E-02
				K-40	5.57E-01	3.19E-01	4.24E-01

Sample ID:	436232	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<1.80E-02	0.00E+00	1.80E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<1.21E-01	0.00E+00	1.21E-01
				K-40	9.97E-01	3.46E-01	2.99E-01

Sample ID:	436683	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.60E-02	0.00E+00	1.60E-02
				Cs-134	<1.69E-02	0.00E+00	1.69E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	436683	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	9.99E-01	3.71E-01	3.89E-01
Sample ID:	437544	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.61E-02	0.00E+00	2.61E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-02
				Cs-137	<2.00E-02	0.00E+00	2.00E-02
				Be-7	<2.11E-01	0.00E+00	2.11E-01
				K-40	1.22E+00	4.04E-01	3.32E-01
Sample ID:	438274	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.21E-02	0.00E+00	2.21E-02
				Cs-134	<7.95E-03	0.00E+00	7.95E-03
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<9.39E-02	0.00E+00	9.39E-02
				K-40	9.43E-01	3.28E-01	2.65E-01
Sample ID:	438777	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.63E-02	0.00E+00	1.63E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.13E-02	0.00E+00	1.13E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	8.13E-01	2.71E-01	5.65E-02
Sample ID:	439127	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<8.90E-03	0.00E+00	8.90E-03
				Cs-137	<1.68E-02	0.00E+00	1.68E-02
				Be-7	<9.30E-02	0.00E+00	9.30E-02
				K-40	7.55E-01	2.81E-01	2.43E-01
Sample ID:	439973	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<1.84E-02	0.00E+00	1.84E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	8.63E-01	2.83E-01	5.85E-02
Sample ID:	440571	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.70E-02	0.00E+00	1.70E-02
				Cs-134	<1.26E-02	0.00E+00	1.26E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<1.23E-01	0.00E+00	1.23E-01
				K-40	5.93E-01	2.72E-01	3.03E-01
Sample ID:	441385	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<7.73E-03	0.00E+00	7.73E-03
				Cs-137	<1.21E-02	0.00E+00	1.21E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	7.91E-01	3.13E-01	3.13E-01
Sample ID:	441830	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<1.51E-02	0.00E+00	1.51E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	6.89E-01	2.69E-01	2.20E-01
Sample ID:	442258	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.49E-02	0.00E+00	1.49E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.29E-02	0.00E+00	1.29E-02
				Be-7	<7.24E-02	0.00E+00	7.24E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	442258	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	7.24E-01	2.91E-01	2.93E-01
Sample ID:	442844	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.25E-02	0.00E+00	2.25E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<9.68E-02	0.00E+00	9.68E-02
				K-40	8.06E-01	3.03E-01	2.78E-01
Sample ID:	443272	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<1.12E-02	0.00E+00	1.12E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	9.14E-01	2.87E-01	5.63E-02
Sample ID:	443830	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.57E-02	0.00E+00	1.57E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.60E-02	0.00E+00	1.60E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	6.07E-01	2.51E-01	2.25E-01
Sample ID:	444224	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<1.41E-02	0.00E+00	1.41E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	4.91E-01	2.33E-01	2.17E-01
Sample ID:	445294	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.11E-02	0.00E+00	1.11E-02
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	<3.72E-01	0.00E+00	3.72E-01
Sample ID:	446293	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	4.21E-01	2.06E-01	1.86E-01
Sample ID:	446797	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.34E-02	0.00E+00	1.34E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.65E-02	0.00E+00	1.65E-02
				Be-7	<9.11E-02	0.00E+00	9.11E-02
				K-40	<4.52E-01	0.00E+00	4.52E-01
Sample ID:	447130	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.33E-02	0.00E+00	1.33E-02
				Cs-134	<1.32E-02	0.00E+00	1.32E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<9.90E-02	0.00E+00	9.90E-02
				K-40	<3.61E-01	0.00E+00	3.61E-01
Sample ID:	447776	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.26E-02	0.00E+00	1.26E-02
				Cs-134	<1.95E-02	0.00E+00	1.95E-02
				Cs-137	<1.43E-02	0.00E+00	1.43E-02
				Be-7	<8.10E-02	0.00E+00	8.10E-02
				K-40	<4.92E-01	0.00E+00	4.92E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	448240	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<1.80E-02	0.00E+00	1.80E-02
				Cs-137	<2.06E-02	0.00E+00	2.06E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	3.14E-01	2.28E-01	3.17E-01
Sample ID:	448866	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.17E-02	0.00E+00	1.17E-02
				Cs-137	<1.82E-02	0.00E+00	1.82E-02
				Be-7	<9.45E-02	0.00E+00	9.45E-02
				K-40	<3.25E-01	0.00E+00	3.25E-01
Sample ID:	449182	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.08E-02	0.00E+00	1.08E-02
				Cs-134	<9.47E-03	0.00E+00	9.47E-03
				Cs-137	<1.18E-02	0.00E+00	1.18E-02
				Be-7	<5.75E-02	0.00E+00	5.75E-02
				K-40	3.33E-01	1.46E-01	1.67E-01
Sample ID:	449921	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<1.60E-02	0.00E+00	1.60E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<1.21E-01	0.00E+00	1.21E-01
				K-40	5.23E-01	2.33E-01	2.01E-01
Sample ID:	450166	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.08E-02	0.00E+00	2.08E-02
				Cs-134	<1.78E-02	0.00E+00	1.78E-02
				Cs-137	<1.60E-02	0.00E+00	1.60E-02
				Be-7	<9.26E-02	0.00E+00	9.26E-02
				K-40	2.92E-01	1.64E-01	6.08E-02
Sample ID:	450699	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.76E-02	0.00E+00	1.76E-02
				Cs-134	<8.72E-03	0.00E+00	8.72E-03
				Cs-137	<1.94E-02	0.00E+00	1.94E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	4.37E-01	2.02E-01	1.61E-01
Sample ID:	451150	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.12E-02	0.00E+00	1.12E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<9.15E-02	0.00E+00	9.15E-02
				K-40	<4.36E-01	0.00E+00	4.36E-01
Sample ID:	451512	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.74E-02	0.00E+00	1.74E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<2.19E-02	0.00E+00	2.19E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	4.07E-01	1.90E-01	5.81E-02
Sample ID:	452316	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.64E-02	0.00E+00	1.64E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	<3.65E-01	0.00E+00	3.65E-01
Sample ID:	452759	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.80E-02	0.00E+00	1.80E-02
				Cs-134	<1.35E-02	0.00E+00	1.35E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	452759	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	2.85E-01	2.11E-01	2.92E-01
Sample ID:	453405	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<1.59E-02	0.00E+00	1.59E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	<4.78E-01	0.00E+00	4.78E-01
Sample ID:	454171	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.74E-02	0.00E+00	1.74E-02
				Cs-134	<2.26E-02	0.00E+00	2.26E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	<4.94E-01	0.00E+00	4.94E-01
Sample ID:	455031	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.54E-02	0.00E+00	3.54E-02
				Cs-134	<3.72E-02	0.00E+00	3.72E-02
				Cs-137	<3.21E-02	0.00E+00	3.21E-02
				Be-7	<1.85E-01	0.00E+00	1.85E-01
				K-40	3.46E-01	2.56E-01	3.55E-01
Sample ID:	455386	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.23E-02	0.00E+00	3.23E-02
				Cs-134	<3.56E-02	0.00E+00	3.56E-02
				Cs-137	<2.85E-02	0.00E+00	2.85E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	5.39E-01	2.56E-01	2.43E-01
Sample ID:	456003	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.80E-02	0.00E+00	2.80E-02
				Cs-134	<3.37E-02	0.00E+00	3.37E-02
				Cs-137	<3.12E-02	0.00E+00	3.12E-02
				Be-7	<1.86E-01	0.00E+00	1.86E-01
				K-40	5.55E-01	2.87E-01	3.36E-01
Sample ID:	461387	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.42E-02	0.00E+00	4.42E-02
				Cs-134	<3.96E-02	0.00E+00	3.96E-02
				Cs-137	<3.38E-02	0.00E+00	3.38E-02
				Be-7	<2.24E-01	0.00E+00	2.24E-01
				K-40	1.00E+00	3.93E-01	4.21E-01
Sample ID:	461933	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.28E-02	0.00E+00	5.28E-02
				Cs-134	<2.13E-02	0.00E+00	2.13E-02
				Cs-137	<2.49E-02	0.00E+00	2.49E-02
				Be-7	<1.85E-01	0.00E+00	1.85E-01
				K-40	8.97E-01	2.99E-01	3.27E-01
Sample ID:	462569	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.19E-02	0.00E+00	4.19E-02
				Cs-134	<3.32E-02	0.00E+00	3.32E-02
				Cs-137	<2.71E-02	0.00E+00	2.71E-02
				Be-7	<2.09E-01	0.00E+00	2.09E-01
				K-40	6.64E-01	3.28E-01	3.86E-01
Sample ID:	463053	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.64E-02	0.00E+00	4.64E-02
				Cs-134	<2.75E-02	0.00E+00	2.75E-02
				Cs-137	<3.45E-02	0.00E+00	3.45E-02
				Be-7	<2.36E-01	0.00E+00	2.36E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 202 [INDICATOR - S @ 1 miles]

Sample ID:	463053	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.29E-01	4.21E-01	5.20E-01
Sample ID:	463477	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.58E-02	0.00E+00	5.58E-02
				Cs-134	<2.79E-02	0.00E+00	2.79E-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	1.02E+00	3.10E-01	2.88E-01
Sample ID:	464136	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.36E-02	0.00E+00	4.36E-02
				Cs-134	<2.75E-02	0.00E+00	2.75E-02
				Cs-137	<3.45E-02	0.00E+00	3.45E-02
				Be-7	<3.13E-01	0.00E+00	3.13E-01
				K-40	1.02E+00	3.59E-01	2.72E-01
Sample ID:	464666	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.14E-02	0.00E+00	4.14E-02
				Cs-134	<2.29E-02	0.00E+00	2.29E-02
				Cs-137	<3.26E-02	0.00E+00	3.26E-02
				Be-7	<2.31E-01	0.00E+00	2.31E-01
				K-40	9.43E-01	4.07E-01	4.85E-01
Sample ID:	464927	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.41E-02	0.00E+00	4.41E-02
				Cs-134	<3.00E-02	0.00E+00	3.00E-02
				Cs-137	<3.00E-02	0.00E+00	3.00E-02
				Be-7	<2.60E-01	0.00E+00	2.60E-01
				K-40	1.04E+00	3.97E-01	4.00E-01
Sample ID:	465182	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.85E-02	0.00E+00	4.85E-02
				Cs-134	<3.99E-02	0.00E+00	3.99E-02
				Cs-137	<2.69E-02	0.00E+00	2.69E-02
				Be-7	<2.38E-01	0.00E+00	2.38E-01
				K-40	1.20E+00	4.50E-01	4.94E-01
Sample ID:	465564	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.37E-02	0.00E+00	5.37E-02
				Cs-134	<2.73E-02	0.00E+00	2.73E-02
				Cs-137	<2.36E-02	0.00E+00	2.36E-02
				Be-7	<1.93E-01	0.00E+00	1.93E-01
				K-40	1.03E+00	2.77E-01	2.06E-01
Sample ID:	465944	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.49E-02	0.00E+00	5.49E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<3.09E-02	0.00E+00	3.09E-02
				Be-7	<2.00E-01	0.00E+00	2.00E-01
				K-40	1.13E+00	3.44E-01	3.11E-01

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	432172	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.26E-02	0.00E+00	1.26E-02
				Be-7	<8.17E-02	0.00E+00	8.17E-02
				K-40	9.95E-01	3.36E-01	2.51E-01
Sample ID:	432877	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.16E-02	0.00E+00	2.16E-02
				Cs-134	<1.27E-02	0.00E+00	1.27E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	432877	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.39E-01	3.16E-01	6.70E-02
Sample ID:	433277	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.10E-02	0.00E+00	2.10E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.83E-02	0.00E+00	1.83E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	1.24E+00	3.93E-01	3.55E-01
Sample ID:	433694	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<1.43E-02	0.00E+00	1.43E-02
				Be-7	<9.32E-02	0.00E+00	9.32E-02
				K-40	6.05E-01	2.61E-01	2.62E-01
Sample ID:	434429	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<1.82E-02	0.00E+00	1.82E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<6.48E-02	0.00E+00	6.48E-02
				K-40	6.43E-01	3.37E-01	4.34E-01
Sample ID:	435073	Sample Dates:	1/31/2017 - 2/7/2017	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	<1.92E-02	0.00E+00	1.92E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	6.77E-01	2.96E-01	2.76E-01
Sample ID:	435783	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.41E-02	0.00E+00	2.41E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	7.33E-01	2.78E-01	2.34E-01
Sample ID:	436233	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.13E-02	0.00E+00	1.13E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	7.99E-01	2.84E-01	2.08E-01
Sample ID:	436684	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	5.68E-01	3.28E-01	4.51E-01
Sample ID:	437545	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<1.65E-02	0.00E+00	1.65E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	7.84E-01	2.86E-01	2.26E-01
Sample ID:	438275	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.80E-02	0.00E+00	1.80E-02
				Cs-134	<1.20E-02	0.00E+00	1.20E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<8.38E-02	0.00E+00	8.38E-02
				K-40	7.96E-01	3.01E-01	2.44E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	438778	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.42E-02	0.00E+00	1.42E-02
				Cs-137	<2.27E-02	0.00E+00	2.27E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	7.05E-01	2.80E-01	2.51E-01
Sample ID:	439128	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.76E-02	0.00E+00	1.76E-02
				Cs-134	<1.42E-02	0.00E+00	1.42E-02
				Cs-137	<1.25E-02	0.00E+00	1.25E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	9.44E-01	3.27E-01	2.60E-01
Sample ID:	439974	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.26E-02	0.00E+00	1.26E-02
				Cs-137	<1.28E-02	0.00E+00	1.28E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	7.00E-01	2.80E-01	2.72E-01
Sample ID:	440572	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.46E-02	0.00E+00	1.46E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	8.92E-01	3.17E-01	2.66E-01
Sample ID:	441386	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.40E-02	0.00E+00	1.40E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<8.55E-02	0.00E+00	8.55E-02
				K-40	6.67E-01	2.42E-01	5.65E-02
Sample ID:	441831	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	9.80E-01	3.14E-01	2.22E-01
Sample ID:	442259	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.59E-02	0.00E+00	1.59E-02
				Cs-134	<1.59E-02	0.00E+00	1.59E-02
				Cs-137	<1.97E-02	0.00E+00	1.97E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	8.51E-01	2.74E-01	5.49E-02
Sample ID:	442845	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.34E-02	0.00E+00	1.34E-02
				Cs-134	<1.34E-02	0.00E+00	1.34E-02
				Cs-137	<1.10E-02	0.00E+00	1.10E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	7.92E-01	2.81E-01	2.16E-01
Sample ID:	443273	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.90E-02	0.00E+00	1.90E-02
				Cs-137	<1.26E-02	0.00E+00	1.26E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	6.40E-01	2.48E-01	6.20E-02
Sample ID:	443831	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	443831	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.27E-02	0.00E+00	1.27E-02
				Be-7	<9.30E-02	0.00E+00	9.30E-02
				K-40	6.38E-01	2.87E-01	3.26E-01
Sample ID:	444225	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.59E-02	0.00E+00	1.59E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<8.39E-02	0.00E+00	8.39E-02
				K-40	1.63E-01	1.61E-01	2.39E-01
Sample ID:	445295	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.66E-02	0.00E+00	1.66E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.36E-02	0.00E+00	1.36E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	4.69E-01	2.59E-01	3.19E-01
Sample ID:	446294	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.47E-02	0.00E+00	2.47E-02
				Cs-134	<1.28E-02	0.00E+00	1.28E-02
				Cs-137	<2.57E-02	0.00E+00	2.57E-02
				Be-7	<1.21E-01	0.00E+00	1.21E-01
				K-40	<5.12E-01	0.00E+00	5.12E-01
Sample ID:	446798	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.47E-02	0.00E+00	1.47E-02
				Cs-134	<6.99E-03	0.00E+00	6.99E-03
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<9.18E-02	0.00E+00	9.18E-02
				K-40	3.31E-01	2.12E-01	2.70E-01
Sample ID:	447131	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.36E-02	0.00E+00	1.36E-02
				Cs-137	<1.57E-02	0.00E+00	1.57E-02
				Be-7	<9.34E-02	0.00E+00	9.34E-02
				K-40	<4.63E-01	0.00E+00	4.63E-01
Sample ID:	447777	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.53E-02	0.00E+00	1.53E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	1.09E+00	3.21E-01	5.82E-02
Sample ID:	448241	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<1.25E-02	0.00E+00	1.25E-02
				Be-7	<9.97E-02	0.00E+00	9.97E-02
				K-40	4.83E-01	2.18E-01	1.95E-01
Sample ID:	448867	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.67E-02	0.00E+00	1.67E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	<4.06E-01	0.00E+00	4.06E-01
Sample ID:	449183	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.02E-02	0.00E+00	2.02E-02
				Cs-134	<1.16E-02	0.00E+00	1.16E-02
				Cs-137	<1.57E-02	0.00E+00	1.57E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	449183	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	3.23E-01	2.07E-01	2.59E-01
Sample ID:	449922	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.99E-02	0.00E+00	1.99E-02
				Cs-134	<1.27E-02	0.00E+00	1.27E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	4.76E-01	2.03E-01	5.61E-02
Sample ID:	450167	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.37E-02	0.00E+00	1.37E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	<4.03E-01	0.00E+00	4.03E-01
Sample ID:	450700	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.05E-02	0.00E+00	2.05E-02
				Cs-134	<9.15E-03	0.00E+00	9.15E-03
				Cs-137	<3.32E-03	0.00E+00	3.32E-03
				Be-7	<1.18E-01	0.00E+00	1.18E-01
				K-40	<4.41E-01	0.00E+00	4.41E-01
Sample ID:	451151	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.70E-02	0.00E+00	1.70E-02
				Cs-134	<1.04E-02	0.00E+00	1.04E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<7.26E-02	0.00E+00	7.26E-02
				K-40	2.40E-01	1.91E-01	2.65E-01
Sample ID:	451513	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<1.02E-02	0.00E+00	1.02E-02
				Cs-137	<1.54E-02	0.00E+00	1.54E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	<4.42E-01	0.00E+00	4.42E-01
Sample ID:	452317	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.17E-02	0.00E+00	2.17E-02
				Cs-134	<1.91E-02	0.00E+00	1.91E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-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:	452760	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.47E-02	0.00E+00	1.47E-02
				Cs-134	<1.96E-02	0.00E+00	1.96E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<9.54E-02	0.00E+00	9.54E-02
				K-40	4.48E-01	2.14E-01	1.93E-01
Sample ID:	453406	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.40E-02	0.00E+00	1.40E-02
				Cs-134	<1.09E-02	0.00E+00	1.09E-02
				Cs-137	<1.66E-02	0.00E+00	1.66E-02
				Be-7	<8.74E-02	0.00E+00	8.74E-02
				K-40	3.40E-01	1.89E-01	1.81E-01
Sample ID:	454172	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.57E-02	0.00E+00	1.57E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<2.05E-02	0.00E+00	2.05E-02
				Be-7	<9.20E-02	0.00E+00	9.20E-02
				K-40	<4.65E-01	0.00E+00	4.65E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	455032	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.32E-02	0.00E+00	3.32E-02
				Cs-134	<3.07E-02	0.00E+00	3.07E-02
				Cs-137	<2.39E-02	0.00E+00	2.39E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	<6.52E-01	0.00E+00	6.52E-01
Sample ID:	455387	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.47E-02	0.00E+00	3.47E-02
				Cs-134	<3.35E-02	0.00E+00	3.35E-02
				Cs-137	<3.23E-02	0.00E+00	3.23E-02
				Be-7	<1.85E-01	0.00E+00	1.85E-01
				K-40	1.04E+00	3.58E-01	2.93E-01
Sample ID:	456004	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.72E-02	0.00E+00	3.72E-02
				Cs-134	<3.74E-02	0.00E+00	3.74E-02
				Cs-137	<3.11E-02	0.00E+00	3.11E-02
				Be-7	<2.07E-01	0.00E+00	2.07E-01
				K-40	1.08E+00	3.43E-01	6.95E-02
Sample ID:	461388	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.54E-02	0.00E+00	4.54E-02
				Cs-134	<3.98E-02	0.00E+00	3.98E-02
				Cs-137	<3.68E-02	0.00E+00	3.68E-02
				Be-7	<2.55E-01	0.00E+00	2.55E-01
				K-40	1.27E+00	4.11E-01	3.45E-01
Sample ID:	461934	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.51E-02	0.00E+00	5.51E-02
				Cs-134	<3.04E-02	0.00E+00	3.04E-02
				Cs-137	<2.52E-02	0.00E+00	2.52E-02
				Be-7	<1.74E-01	0.00E+00	1.74E-01
				K-40	1.06E+00	3.14E-01	2.73E-01
Sample ID:	462570	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.66E-02	0.00E+00	4.66E-02
				Cs-134	<3.74E-02	0.00E+00	3.74E-02
				Cs-137	<3.49E-02	0.00E+00	3.49E-02
				Be-7	<2.37E-01	0.00E+00	2.37E-01
				K-40	<7.16E-01	0.00E+00	7.16E-01
Sample ID:	463054	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.75E-02	0.00E+00	4.75E-02
				Cs-134	<3.82E-02	0.00E+00	3.82E-02
				Cs-137	<3.42E-02	0.00E+00	3.42E-02
				Be-7	<2.37E-01	0.00E+00	2.37E-01
				K-40	<7.95E-01	0.00E+00	7.95E-01
Sample ID:	463478	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.18E-02	0.00E+00	5.18E-02
				Cs-134	<2.76E-02	0.00E+00	2.76E-02
				Cs-137	<2.19E-02	0.00E+00	2.19E-02
				Be-7	<1.84E-01	0.00E+00	1.84E-01
				K-40	1.03E+00	3.26E-01	3.61E-01
Sample ID:	464137	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.16E-02	0.00E+00	4.16E-02
				Cs-134	<3.69E-02	0.00E+00	3.69E-02
				Cs-137	<3.46E-02	0.00E+00	3.46E-02
				Be-7	<2.66E-01	0.00E+00	2.66E-01
				K-40	7.48E-01	3.78E-01	4.78E-01
Sample ID:	464667	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.35E-02	0.00E+00	4.35E-02
				Cs-134	<3.85E-02	0.00E+00	3.85E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 203 [INDICATOR - SSW @ 2 miles]

Sample ID:	464667	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<3.48E-02	0.00E+00	3.48E-02
				Be-7	<2.56E-01	0.00E+00	2.56E-01
				K-40	9.53E-01	3.85E-01	4.19E-01
Sample ID:	464928	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.06E-02	0.00E+00	5.06E-02
				Cs-134	<3.50E-02	0.00E+00	3.50E-02
				Cs-137	<3.44E-02	0.00E+00	3.44E-02
				Be-7	<2.67E-01	0.00E+00	2.67E-01
				K-40	7.53E-01	4.35E-01	6.05E-01
Sample ID:	465183	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.81E-02	0.00E+00	4.81E-02
				Cs-134	<3.60E-02	0.00E+00	3.60E-02
				Cs-137	<3.89E-02	0.00E+00	3.89E-02
				Be-7	<2.38E-01	0.00E+00	2.38E-01
				K-40	9.20E-01	3.93E-01	4.44E-01
Sample ID:	465565	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.52E-02	0.00E+00	5.52E-02
				Cs-134	<3.01E-02	0.00E+00	3.01E-02
				Cs-137	<2.72E-02	0.00E+00	2.72E-02
				Be-7	<1.98E-01	0.00E+00	1.98E-01
				K-40	8.08E-01	2.62E-01	2.55E-01
Sample ID:	465945	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.36E-02	0.00E+00	5.36E-02
				Cs-134	<2.83E-02	0.00E+00	2.83E-02
				Cs-137	<2.85E-02	0.00E+00	2.85E-02
				Be-7	<2.20E-01	0.00E+00	2.20E-01
				K-40	9.87E-01	2.92E-01	1.89E-01

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	432173	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.56E-02	0.00E+00	1.56E-02
				Cs-134	<1.21E-02	0.00E+00	1.21E-02
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	7.98E-01	2.90E-01	2.24E-01
Sample ID:	432878	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.29E-02	0.00E+00	2.29E-02
				Cs-134	<1.26E-02	0.00E+00	1.26E-02
				Cs-137	<2.05E-02	0.00E+00	2.05E-02
				Be-7	<6.92E-02	0.00E+00	6.92E-02
				K-40	7.10E-01	2.70E-01	6.64E-02
Sample ID:	433278	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	1.13E+00	3.64E-01	3.20E-01
Sample ID:	433695	Sample Dates:	1/17/2017 - 1/24/2017	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	<1.54E-02	0.00E+00	1.54E-02
				Be-7	<9.99E-02	0.00E+00	9.99E-02
				K-40	9.02E-01	2.93E-01	5.97E-02
Sample ID:	434430	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.35E-02	0.00E+00	1.35E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	434430	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.19E-01	0.00E+00	1.19E-01
				K-40	1.06E+00	3.53E-01	2.94E-01
Sample ID:	435074	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<9.07E-02	0.00E+00	9.07E-02
				K-40	7.86E-01	2.91E-01	2.23E-01
Sample ID:	435784	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<9.63E-03	0.00E+00	9.63E-03
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	7.83E-01	2.88E-01	2.15E-01
Sample ID:	436234	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<1.36E-02	0.00E+00	1.36E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	7.68E-01	3.01E-01	2.82E-01
Sample ID:	436685	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.11E-02	0.00E+00	2.11E-02
				Cs-134	<1.11E-02	0.00E+00	1.11E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.09E-01	0.00E+00	1.09E-01
				K-40	9.88E-01	3.08E-01	5.95E-02
Sample ID:	437546	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.24E-02	0.00E+00	1.24E-02
				Cs-134	<1.87E-02	0.00E+00	1.87E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.04E-01	0.00E+00	1.04E-01
				K-40	9.63E-01	3.06E-01	6.07E-02
Sample ID:	438276	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.17E-02	0.00E+00	1.17E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	7.70E-01	3.00E-01	2.95E-01
Sample ID:	438779	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.37E-02	0.00E+00	1.37E-02
				Cs-134	<1.43E-02	0.00E+00	1.43E-02
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<8.11E-02	0.00E+00	8.11E-02
				K-40	1.11E+00	3.72E-01	3.35E-01
Sample ID:	439129	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.21E-02	0.00E+00	1.21E-02
				Cs-137	<1.16E-02	0.00E+00	1.16E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	8.62E-01	2.79E-01	5.70E-02
Sample ID:	439975	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.94E-02	0.00E+00	1.94E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	439975	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	6.46E-01	2.39E-01	5.65E-02
Sample ID:	440573	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-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	7.51E-01	2.56E-01	5.50E-02
Sample ID:	441387	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.67E-02	0.00E+00	1.67E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.60E-02	0.00E+00	1.60E-02
				Be-7	<9.32E-02	0.00E+00	9.32E-02
				K-40	7.44E-01	2.89E-01	2.46E-01
Sample ID:	441832	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.85E-02	0.00E+00	1.85E-02
				Be-7	<1.19E-01	0.00E+00	1.19E-01
				K-40	6.85E-01	2.53E-01	5.98E-02
Sample ID:	442260	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<9.15E-03	0.00E+00	9.15E-03
				Cs-137	<1.73E-02	0.00E+00	1.73E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	6.19E-01	2.32E-01	5.59E-02
Sample ID:	442846	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.22E-02	0.00E+00	1.22E-02
				Cs-134	<8.90E-03	0.00E+00	8.90E-03
				Cs-137	<1.28E-02	0.00E+00	1.28E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	8.39E-01	2.90E-01	2.16E-01
Sample ID:	443274	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<9.16E-03	0.00E+00	9.16E-03
				Cs-137	<9.02E-03	0.00E+00	9.02E-03
				Be-7	<9.48E-02	0.00E+00	9.48E-02
				K-40	8.26E-01	2.70E-01	5.60E-02
Sample ID:	443832	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<8.69E-02	0.00E+00	8.69E-02
				K-40	8.28E-01	2.93E-01	2.24E-01
Sample ID:	444226	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.46E-02	0.00E+00	1.46E-02
				Cs-134	<1.43E-02	0.00E+00	1.43E-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	2.51E-01	1.67E-01	1.94E-01
Sample ID:	445296	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<9.10E-03	0.00E+00	9.10E-03
				Cs-137	<8.97E-03	0.00E+00	8.97E-03
				Be-7	<1.37E-01	0.00E+00	1.37E-01
				K-40	6.16E-01	2.31E-01	5.57E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	446295	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<9.03E-03	0.00E+00	9.03E-03
				Cs-137	<1.30E-02	0.00E+00	1.30E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	2.57E-01	1.84E-01	2.37E-01
Sample ID:	446799	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	1.06E+00	3.29E-01	2.15E-01
Sample ID:	447132	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.95E-02	0.00E+00	1.95E-02
				Cs-134	<1.13E-02	0.00E+00	1.13E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<1.01E-01	0.00E+00	1.01E-01
				K-40	3.45E-01	2.28E-01	2.97E-01
Sample ID:	447778	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.84E-02	0.00E+00	1.84E-02
				Cs-134	<1.49E-02	0.00E+00	1.49E-02
				Cs-137	<2.27E-02	0.00E+00	2.27E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	<3.76E-01	0.00E+00	3.76E-01
Sample ID:	448242	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.59E-02	0.00E+00	1.59E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<2.07E-02	0.00E+00	2.07E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	4.70E-01	2.01E-01	5.54E-02
Sample ID:	448868	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.43E-02	0.00E+00	2.43E-02
				Cs-134	<1.08E-02	0.00E+00	1.08E-02
				Cs-137	<1.63E-02	0.00E+00	1.63E-02
				Be-7	<8.70E-02	0.00E+00	8.70E-02
				K-40	3.25E-01	1.92E-01	2.10E-01
Sample ID:	449184	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.93E-02	0.00E+00	1.93E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.25E-01	0.00E+00	1.25E-01
				K-40	2.64E-01	1.63E-01	1.64E-01
Sample ID:	449923	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.26E-02	0.00E+00	1.26E-02
				Cs-137	<2.37E-02	0.00E+00	2.37E-02
				Be-7	<1.01E-01	0.00E+00	1.01E-01
				K-40	<4.28E-01	0.00E+00	4.28E-01
Sample ID:	450168	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.66E-02	0.00E+00	1.66E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<2.31E-02	0.00E+00	2.31E-02
				Be-7	<1.21E-01	0.00E+00	1.21E-01
				K-40	<4.37E-01	0.00E+00	4.37E-01
Sample ID:	450701	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
450701	8/8/2017 - 8/15/2017	Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<9.29E-02	0.00E+00	9.29E-02
		K-40	<4.92E-01	0.00E+00	4.92E-01
451152	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	3.48E-01	2.13E-01	2.56E-01
451514	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.71E-02	0.00E+00	1.71E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<9.29E-02	0.00E+00	9.29E-02
		K-40	2.54E-01	1.69E-01	1.96E-01
452318	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	2.09E-01	2.00E-01	3.04E-01
452761	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<4.60E-01	0.00E+00	4.60E-01
453407	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.79E-01	1.77E-01	5.41E-02
454173	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<2.14E-02	0.00E+00	2.14E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<4.13E-01	0.00E+00	4.13E-01
455033	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	6.66E-01	2.58E-01	6.45E-02
455388	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<3.11E-02	0.00E+00	3.11E-02
		Cs-137	<3.63E-02	0.00E+00	3.63E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	6.21E-01	2.76E-01	2.73E-01
456005	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	456005	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	5.16E-01	3.06E-01	4.02E-01
Sample ID:	461389	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.03E-02	0.00E+00	4.03E-02
				Cs-134	<3.82E-02	0.00E+00	3.82E-02
				Cs-137	<3.72E-02	0.00E+00	3.72E-02
				Be-7	<2.02E-01	0.00E+00	2.02E-01
				K-40	8.41E-01	4.08E-01	5.26E-01
Sample ID:	461935	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.14E-02	0.00E+00	5.14E-02
				Cs-134	<2.16E-02	0.00E+00	2.16E-02
				Cs-137	<2.50E-02	0.00E+00	2.50E-02
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	6.28E-01	2.59E-01	3.37E-01
Sample ID:	462571	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.41E-02	0.00E+00	4.41E-02
				Cs-134	<3.30E-02	0.00E+00	3.30E-02
				Cs-137	<3.53E-02	0.00E+00	3.53E-02
				Be-7	<2.28E-01	0.00E+00	2.28E-01
				K-40	1.01E+00	3.98E-01	4.34E-01
Sample ID:	463055	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.28E-02	0.00E+00	4.28E-02
				Cs-134	<4.53E-02	0.00E+00	4.53E-02
				Cs-137	<3.94E-02	0.00E+00	3.94E-02
				Be-7	<2.79E-01	0.00E+00	2.79E-01
				K-40	1.00E+00	3.77E-01	3.64E-01
Sample ID:	463479	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.54E-02	0.00E+00	5.54E-02
				Cs-134	<2.41E-02	0.00E+00	2.41E-02
				Cs-137	<2.66E-02	0.00E+00	2.66E-02
				Be-7	<2.13E-01	0.00E+00	2.13E-01
				K-40	8.33E-01	2.86E-01	3.12E-01
Sample ID:	464138	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.64E-02	0.00E+00	4.64E-02
				Cs-134	<3.77E-02	0.00E+00	3.77E-02
				Cs-137	<2.88E-02	0.00E+00	2.88E-02
				Be-7	<2.40E-01	0.00E+00	2.40E-01
				K-40	8.60E-01	3.81E-01	4.44E-01
Sample ID:	464668	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.88E-02	0.00E+00	4.88E-02
				Cs-134	<4.11E-02	0.00E+00	4.11E-02
				Cs-137	<3.41E-02	0.00E+00	3.41E-02
				Be-7	<2.64E-01	0.00E+00	2.64E-01
				K-40	1.00E+00	4.32E-01	5.27E-01
Sample ID:	464929	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.99E-02	0.00E+00	4.99E-02
				Cs-134	<3.55E-02	0.00E+00	3.55E-02
				Cs-137	<2.78E-02	0.00E+00	2.78E-02
				Be-7	<2.50E-01	0.00E+00	2.50E-01
				K-40	7.87E-01	3.46E-01	3.71E-01
Sample ID:	465184	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.49E-02	0.00E+00	4.49E-02
				Cs-134	<2.94E-02	0.00E+00	2.94E-02
				Cs-137	<4.10E-02	0.00E+00	4.10E-02
				Be-7	<2.29E-01	0.00E+00	2.29E-01
				K-40	8.05E-01	3.83E-01	4.68E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 204 [CONTROL - NNE @ 22.4 miles]

Sample ID:	465566	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.27E-02	0.00E+00	5.27E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-02
				Cs-137	<2.22E-02	0.00E+00	2.22E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	1.06E+00	2.72E-01	2.72E-01
Sample ID:	465946	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.58E-02	0.00E+00	5.58E-02
				Cs-134	<2.82E-02	0.00E+00	2.82E-02
				Cs-137	<2.98E-02	0.00E+00	2.98E-02
				Be-7	<1.96E-01	0.00E+00	1.96E-01
				K-40	9.59E-01	2.81E-01	2.31E-01
Sample Point 205 [INDICATOR - SSE @ 0.6 miles]							
Sample ID:	432174	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<1.64E-02	0.00E+00	1.64E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	<6.10E-01	0.00E+00	6.10E-01
Sample ID:	432879	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.13E-02	0.00E+00	1.13E-02
				Cs-134	<1.38E-02	0.00E+00	1.38E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	7.73E-01	3.05E-01	2.88E-01
Sample ID:	433279	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.54E-02	0.00E+00	1.54E-02
				Cs-134	<1.50E-02	0.00E+00	1.50E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	9.18E-01	2.92E-01	5.79E-02
Sample ID:	433696	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.63E-02	0.00E+00	1.63E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-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	7.02E-01	3.42E-01	4.28E-01
Sample ID:	434431	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<1.92E-02	0.00E+00	1.92E-02
				Be-7	<1.39E-01	0.00E+00	1.39E-01
				K-40	9.68E-01	3.78E-01	4.20E-01
Sample ID:	435075	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.01E-02	0.00E+00	2.01E-02
				Cs-134	<1.66E-02	0.00E+00	1.66E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	9.71E-01	3.30E-01	2.44E-01
Sample ID:	435785	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.43E-02	0.00E+00	2.43E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<2.05E-02	0.00E+00	2.05E-02
				Be-7	<1.06E-01	0.00E+00	1.06E-01
				K-40	<6.27E-01	0.00E+00	6.27E-01

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	436235	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.89E-02	0.00E+00	1.89E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<1.79E-02	0.00E+00	1.79E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	<6.49E-01	0.00E+00	6.49E-01
Sample ID:	436686	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.76E-02	0.00E+00	1.76E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.52E-01	0.00E+00	1.52E-01
				K-40	8.97E-01	3.13E-01	2.26E-01
Sample ID:	437547	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<9.45E-03	0.00E+00	9.45E-03
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.30E-01	0.00E+00	1.30E-01
				K-40	8.74E-01	2.83E-01	5.78E-02
Sample ID:	438277	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.84E-02	0.00E+00	1.84E-02
				Cs-137	<1.85E-02	0.00E+00	1.85E-02
				Be-7	<9.15E-02	0.00E+00	9.15E-02
				K-40	7.06E-01	2.94E-01	2.90E-01
Sample ID:	438780	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.28E-02	0.00E+00	1.28E-02
				Cs-134	<9.68E-03	0.00E+00	9.68E-03
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<1.57E-01	0.00E+00	1.57E-01
				K-40	8.31E-01	2.78E-01	5.92E-02
Sample ID:	439130	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.82E-02	0.00E+00	1.82E-02
				Cs-134	<1.57E-02	0.00E+00	1.57E-02
				Cs-137	<1.28E-02	0.00E+00	1.28E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	6.29E-01	2.48E-01	6.31E-02
Sample ID:	439976	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<1.17E-02	0.00E+00	1.17E-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	7.59E-01	2.85E-01	2.07E-01
Sample ID:	440574	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	7.47E-01	2.61E-01	5.78E-02
Sample ID:	441388	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.04E-02	0.00E+00	1.04E-02
				Cs-137	<1.11E-02	0.00E+00	1.11E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	7.77E-01	3.19E-01	3.54E-01
Sample ID:	441833	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.16E-02	0.00E+00	1.16E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	441833	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.57E-02	0.00E+00	1.57E-02
				Be-7	<9.35E-02	0.00E+00	9.35E-02
				K-40	9.06E-01	2.99E-01	2.08E-01
Sample ID:	442261	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<1.00E-02	0.00E+00	1.00E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	1.13E+00	3.35E-01	6.12E-02
Sample ID:	442847	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.51E-02	0.00E+00	1.51E-02
				Cs-134	<1.49E-02	0.00E+00	1.49E-02
				Cs-137	<1.48E-02	0.00E+00	1.48E-02
				Be-7	<8.57E-02	0.00E+00	8.57E-02
				K-40	7.61E-01	2.63E-01	5.73E-02
Sample ID:	443275	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<1.63E-02	0.00E+00	1.63E-02
				Cs-137	<1.46E-02	0.00E+00	1.46E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	1.05E+00	3.24E-01	2.11E-01
Sample ID:	443833	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.75E-02	0.00E+00	1.75E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	<5.57E-01	0.00E+00	5.57E-01
Sample ID:	444227	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.27E-02	0.00E+00	2.27E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.06E-01	0.00E+00	1.06E-01
				K-40	7.21E-01	2.55E-01	5.74E-02
Sample ID:	445297	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.52E-02	0.00E+00	1.52E-02
				Cs-134	<1.43E-02	0.00E+00	1.43E-02
				Cs-137	<2.36E-02	0.00E+00	2.36E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	<3.82E-01	0.00E+00	3.82E-01
Sample ID:	446296	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.41E-02	0.00E+00	2.41E-02
				Cs-134	<1.72E-02	0.00E+00	1.72E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<1.21E-01	0.00E+00	1.21E-01
				K-40	7.78E-01	2.65E-01	5.70E-02
Sample ID:	446800	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.37E-02	0.00E+00	2.37E-02
				Cs-134	<1.31E-02	0.00E+00	1.31E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<1.45E-01	0.00E+00	1.45E-01
				K-40	3.97E-01	2.15E-01	2.16E-01
Sample ID:	447133	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.75E-02	0.00E+00	1.75E-02
				Cs-134	<1.52E-02	0.00E+00	1.52E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	447133	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	<4.78E-01	0.00E+00	4.78E-01
Sample ID:	447779	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.54E-02	0.00E+00	1.54E-02
				Cs-134	<1.20E-02	0.00E+00	1.20E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<8.80E-02	0.00E+00	8.80E-02
				K-40	7.09E-01	2.94E-01	3.01E-01
Sample ID:	448243	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.09E-02	0.00E+00	2.09E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<2.61E-02	0.00E+00	2.61E-02
				Be-7	<9.37E-02	0.00E+00	9.37E-02
				K-40	<4.68E-01	0.00E+00	4.68E-01
Sample ID:	448869	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.73E-02	0.00E+00	1.73E-02
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	6.00E-01	2.30E-01	5.61E-02
Sample ID:	449185	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.20E-02	0.00E+00	1.20E-02
				Cs-137	<1.95E-02	0.00E+00	1.95E-02
				Be-7	<9.72E-02	0.00E+00	9.72E-02
				K-40	<3.71E-01	0.00E+00	3.71E-01
Sample ID:	449924	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<1.93E-02	0.00E+00	1.93E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	<4.22E-01	0.00E+00	4.22E-01
Sample ID:	450169	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.47E-02	0.00E+00	1.47E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<8.61E-02	0.00E+00	8.61E-02
				K-40	<4.49E-01	0.00E+00	4.49E-01
Sample ID:	450702	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.66E-02	0.00E+00	1.66E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<2.37E-02	0.00E+00	2.37E-02
				Be-7	<1.05E-01	0.00E+00	1.05E-01
				K-40	<5.52E-01	0.00E+00	5.52E-01
Sample ID:	451153	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.70E-02	0.00E+00	1.70E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	4.75E-01	2.32E-01	2.22E-01
Sample ID:	451515	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.02E-02	0.00E+00	2.02E-02
				Cs-134	<2.99E-03	0.00E+00	2.99E-03
				Cs-137	<2.39E-02	0.00E+00	2.39E-02
				Be-7	<9.52E-02	0.00E+00	9.52E-02
				K-40	<6.12E-01	0.00E+00	6.12E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	452319	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.51E-02	0.00E+00	1.51E-02
				Cs-134	<1.43E-02	0.00E+00	1.43E-02
				Cs-137	<1.51E-02	0.00E+00	1.51E-02
				Be-7	<8.86E-02	0.00E+00	8.86E-02
				K-40	5.95E-01	2.48E-01	2.00E-01
Sample ID:	452762	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.08E-02	0.00E+00	2.08E-02
				Cs-134	<1.60E-02	0.00E+00	1.60E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	7.01E-01	2.59E-01	6.12E-02
Sample ID:	453408	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.56E-02	0.00E+00	1.56E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	3.21E-01	1.85E-01	1.82E-01
Sample ID:	454174	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.11E-02	0.00E+00	2.11E-02
				Cs-134	<1.97E-02	0.00E+00	1.97E-02
				Cs-137	<1.48E-02	0.00E+00	1.48E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	4.01E-01	2.21E-01	2.29E-01
Sample ID:	455034	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.14E-02	0.00E+00	4.14E-02
				Cs-134	<3.64E-02	0.00E+00	3.64E-02
				Cs-137	<3.27E-02	0.00E+00	3.27E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	<6.06E-01	0.00E+00	6.06E-01
Sample ID:	455389	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.66E-02	0.00E+00	3.66E-02
				Cs-134	<3.39E-02	0.00E+00	3.39E-02
				Cs-137	<3.37E-02	0.00E+00	3.37E-02
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	4.59E-01	2.43E-01	2.45E-01
Sample ID:	456006	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.11E-02	0.00E+00	3.11E-02
				Cs-134	<3.56E-02	0.00E+00	3.56E-02
				Cs-137	<2.92E-02	0.00E+00	2.92E-02
				Be-7	<2.05E-01	0.00E+00	2.05E-01
				K-40	5.73E-01	2.76E-01	2.43E-01
Sample ID:	461390	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.83E-02	0.00E+00	4.83E-02
				Cs-134	<3.64E-02	0.00E+00	3.64E-02
				Cs-137	<4.11E-02	0.00E+00	4.11E-02
				Be-7	<1.80E-01	0.00E+00	1.80E-01
				K-40	1.05E+00	3.70E-01	2.89E-01
Sample ID:	461936	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.60E-02	0.00E+00	5.60E-02
				Cs-134	<2.77E-02	0.00E+00	2.77E-02
				Cs-137	<3.34E-02	0.00E+00	3.34E-02
				Be-7	<2.33E-01	0.00E+00	2.33E-01
				K-40	1.06E+00	3.57E-01	3.87E-01
Sample ID:	462572	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.36E-02	0.00E+00	4.36E-02
				Cs-134	<3.63E-02	0.00E+00	3.63E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 205 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	462572	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<3.83E-02	0.00E+00	3.83E-02
				Be-7	<2.59E-01	0.00E+00	2.59E-01
				K-40	8.79E-01	3.53E-01	3.35E-01
Sample ID:	463056	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.01E-02	0.00E+00	5.01E-02
				Cs-134	<3.58E-02	0.00E+00	3.58E-02
				Cs-137	<3.74E-02	0.00E+00	3.74E-02
				Be-7	<2.55E-01	0.00E+00	2.55E-01
				K-40	1.18E+00	3.73E-01	7.46E-02
Sample ID:	463480	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.50E-02	0.00E+00	5.50E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<3.11E-02	0.00E+00	3.11E-02
				Be-7	<1.96E-01	0.00E+00	1.96E-01
				K-40	1.07E+00	2.83E-01	1.86E-01
Sample ID:	464139	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.61E-02	0.00E+00	4.61E-02
				Cs-134	<3.25E-02	0.00E+00	3.25E-02
				Cs-137	<4.01E-02	0.00E+00	4.01E-02
				Be-7	<2.40E-01	0.00E+00	2.40E-01
				K-40	9.05E-01	3.75E-01	3.88E-01
Sample ID:	464669	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.73E-02	0.00E+00	4.73E-02
				Cs-134	<3.17E-02	0.00E+00	3.17E-02
				Cs-137	<3.21E-02	0.00E+00	3.21E-02
				Be-7	<2.36E-01	0.00E+00	2.36E-01
				K-40	9.64E-01	3.80E-01	3.82E-01
Sample ID:	464930	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.87E-02	0.00E+00	3.87E-02
				Cs-134	<2.67E-02	0.00E+00	2.67E-02
				Cs-137	<2.77E-02	0.00E+00	2.77E-02
				Be-7	<2.34E-01	0.00E+00	2.34E-01
				K-40	1.22E+00	3.47E-01	3.43E-01
Sample ID:	465185	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.77E-02	0.00E+00	4.77E-02
				Cs-134	<3.52E-02	0.00E+00	3.52E-02
				Cs-137	<4.51E-02	0.00E+00	4.51E-02
				Be-7	<2.92E-01	0.00E+00	2.92E-01
				K-40	1.59E+00	4.62E-01	2.96E-01
Sample ID:	465567	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.26E-02	0.00E+00	5.26E-02
				Cs-134	<2.37E-02	0.00E+00	2.37E-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	8.68E-01	2.75E-01	3.29E-01
Sample ID:	465947	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.07E-02	0.00E+00	5.07E-02
				Cs-134	<2.52E-02	0.00E+00	2.52E-02
				Cs-137	<2.44E-02	0.00E+00	2.44E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	1.06E+00	2.74E-01	2.32E-01

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	432175	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	432175	Sample Dates:	12/27/2016 - 1/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<2.15E-02	0.00E+00	2.15E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	8.09E-01	3.34E-01	3.43E-01
Sample ID:	432880	Sample Dates:	1/3/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<1.51E-02	0.00E+00	1.51E-02
				Cs-137	<1.99E-02	0.00E+00	1.99E-02
				Be-7	<9.30E-02	0.00E+00	9.30E-02
				K-40	<6.64E-01	0.00E+00	6.64E-01
Sample ID:	433280	Sample Dates:	1/10/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	9.80E-01	3.35E-01	2.30E-01
Sample ID:	433697	Sample Dates:	1/17/2017 - 1/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	8.00E-01	2.86E-01	6.57E-02
Sample ID:	434432	Sample Dates:	1/24/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.76E-02	0.00E+00	1.76E-02
				Cs-134	<1.70E-02	0.00E+00	1.70E-02
				Cs-137	<2.01E-02	0.00E+00	2.01E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	5.60E-01	2.85E-01	3.40E-01
Sample ID:	435076	Sample Dates:	1/31/2017 - 2/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.42E-02	0.00E+00	1.42E-02
				Cs-137	<9.94E-03	0.00E+00	9.94E-03
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	1.05E+00	3.21E-01	6.17E-02
Sample ID:	435786	Sample Dates:	2/7/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.57E-02	0.00E+00	2.57E-02
				Cs-134	<1.98E-02	0.00E+00	1.98E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.36E-01	0.00E+00	1.36E-01
				K-40	8.44E-01	2.98E-01	6.73E-02
Sample ID:	436236	Sample Dates:	2/14/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.91E-02	0.00E+00	1.91E-02
				Cs-134	<1.44E-02	0.00E+00	1.44E-02
				Cs-137	<1.27E-02	0.00E+00	1.27E-02
				Be-7	<6.47E-02	0.00E+00	6.47E-02
				K-40	<6.89E-01	0.00E+00	6.89E-01
Sample ID:	436687	Sample Dates:	2/21/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.46E-02	0.00E+00	1.46E-02
				Cs-134	<1.59E-02	0.00E+00	1.59E-02
				Cs-137	<1.42E-02	0.00E+00	1.42E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	9.31E-01	2.98E-01	6.01E-02
Sample ID:	437548	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.46E-02	0.00E+00	2.46E-02
				Cs-134	<1.59E-02	0.00E+00	1.59E-02
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	437548	Sample Dates:	2/28/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	7.40E-01	2.51E-01	5.42E-02
Sample ID:	438278	Sample Dates:	3/7/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.28E-02	0.00E+00	1.28E-02
				Cs-134	<1.40E-02	0.00E+00	1.40E-02
				Cs-137	<1.52E-02	0.00E+00	1.52E-02
				Be-7	<9.98E-02	0.00E+00	9.98E-02
				K-40	1.01E+00	2.98E-01	5.37E-02
Sample ID:	438781	Sample Dates:	3/14/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<2.08E-02	0.00E+00	2.08E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	5.89E-01	2.61E-01	2.33E-01
Sample ID:	439131	Sample Dates:	3/21/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.39E-02	0.00E+00	1.39E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.92E-02	0.00E+00	1.92E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	9.95E-01	3.01E-01	5.62E-02
Sample ID:	439977	Sample Dates:	3/28/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.26E-02	0.00E+00	2.26E-02
				Cs-134	<1.41E-02	0.00E+00	1.41E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.12E-01	0.00E+00	1.12E-01
				K-40	4.59E-01	2.34E-01	2.57E-01
Sample ID:	440575	Sample Dates:	4/4/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.00E-02	0.00E+00	2.00E-02
				Cs-134	<1.16E-02	0.00E+00	1.16E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.22E-01	0.00E+00	1.22E-01
				K-40	<6.54E-01	0.00E+00	6.54E-01
Sample ID:	441389	Sample Dates:	4/11/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.80E-02	0.00E+00	1.80E-02
				Cs-134	<9.49E-03	0.00E+00	9.49E-03
				Cs-137	<1.67E-02	0.00E+00	1.67E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	1.04E+00	3.49E-01	3.08E-01
Sample ID:	441834	Sample Dates:	4/18/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<1.28E-02	0.00E+00	1.28E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<1.11E-01	0.00E+00	1.11E-01
				K-40	9.11E-01	3.44E-01	3.66E-01
Sample ID:	442262	Sample Dates:	4/25/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.25E-02	0.00E+00	1.25E-02
				Cs-134	<1.05E-02	0.00E+00	1.05E-02
				Cs-137	<1.71E-02	0.00E+00	1.71E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	<5.79E-01	0.00E+00	5.79E-01
Sample ID:	442848	Sample Dates:	5/2/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.88E-02	0.00E+00	1.88E-02
				Cs-134	<1.80E-02	0.00E+00	1.80E-02
				Cs-137	<1.61E-02	0.00E+00	1.61E-02
				Be-7	<1.57E-01	0.00E+00	1.57E-01
				K-40	9.41E-01	3.32E-01	2.83E-01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	443276	Sample Dates:	5/9/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.70E-02	0.00E+00	1.70E-02
				Cs-137	<1.74E-02	0.00E+00	1.74E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	7.93E-01	2.91E-01	2.13E-01
Sample ID:	443834	Sample Dates:	5/16/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.04E-02	0.00E+00	2.04E-02
				Cs-134	<1.54E-02	0.00E+00	1.54E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	6.93E-01	2.97E-01	3.27E-01
Sample ID:	444228	Sample Dates:	5/23/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-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	<1.23E-01	0.00E+00	1.23E-01
				K-40	3.73E-01	2.06E-01	2.07E-01
Sample ID:	445298	Sample Dates:	5/30/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.07E-02	0.00E+00	1.07E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	5.94E-01	2.27E-01	5.55E-02
Sample ID:	446297	Sample Dates:	6/6/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.69E-02	0.00E+00	1.69E-02
				Cs-134	<1.46E-02	0.00E+00	1.46E-02
				Cs-137	<2.25E-02	0.00E+00	2.25E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	4.98E-01	2.55E-01	2.87E-01
Sample ID:	446801	Sample Dates:	6/13/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.54E-02	0.00E+00	1.54E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.45E-02	0.00E+00	1.45E-02
				Be-7	<9.40E-02	0.00E+00	9.40E-02
				K-40	8.64E-01	2.89E-01	6.16E-02
Sample ID:	447134	Sample Dates:	6/20/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.19E-02	0.00E+00	1.19E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	<4.90E-01	0.00E+00	4.90E-01
Sample ID:	447780	Sample Dates:	6/27/2017 - 7/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.79E-02	0.00E+00	1.79E-02
				Cs-134	<1.51E-02	0.00E+00	1.51E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	4.66E-01	2.22E-01	1.87E-01
Sample ID:	448244	Sample Dates:	7/4/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	<4.72E-01	0.00E+00	4.72E-01
Sample ID:	448870	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.50E-02	0.00E+00	1.50E-02
				Cs-134	<1.06E-02	0.00E+00	1.06E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	448870	Sample Dates:	7/11/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.20E-01	0.00E+00	1.20E-01
				K-40	4.00E-01	2.20E-01	2.49E-01
Sample ID:	449186	Sample Dates:	7/18/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.99E-02	0.00E+00	1.99E-02
				Cs-134	<1.08E-02	0.00E+00	1.08E-02
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	<4.25E-01	0.00E+00	4.25E-01
Sample ID:	449925	Sample Dates:	7/25/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.70E-02	0.00E+00	1.70E-02
				Cs-134	<1.45E-02	0.00E+00	1.45E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	2.32E-01	1.48E-01	6.28E-02
Sample ID:	450170	Sample Dates:	8/1/2017 - 8/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<8.98E-02	0.00E+00	8.98E-02
				K-40	5.16E-01	2.34E-01	2.01E-01
Sample ID:	450703	Sample Dates:	8/8/2017 - 8/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.11E-02	0.00E+00	1.11E-02
				Cs-137	<2.33E-02	0.00E+00	2.33E-02
				Be-7	<9.95E-02	0.00E+00	9.95E-02
				K-40	4.99E-01	2.27E-01	1.87E-01
Sample ID:	451154	Sample Dates:	8/15/2017 - 8/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.96E-02	0.00E+00	1.96E-02
				Cs-134	<1.45E-02	0.00E+00	1.45E-02
				Cs-137	<2.09E-02	0.00E+00	2.09E-02
				Be-7	<1.54E-01	0.00E+00	1.54E-01
				K-40	3.50E-01	2.29E-01	3.05E-01
Sample ID:	451516	Sample Dates:	8/22/2017 - 8/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.33E-02	0.00E+00	1.33E-02
				Cs-137	<1.65E-02	0.00E+00	1.65E-02
				Be-7	<1.06E-01	0.00E+00	1.06E-01
				K-40	<4.01E-01	0.00E+00	4.01E-01
Sample ID:	452320	Sample Dates:	8/29/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.14E-02	0.00E+00	2.14E-02
				Cs-134	<1.01E-02	0.00E+00	1.01E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<1.24E-01	0.00E+00	1.24E-01
				K-40	3.54E-01	2.02E-01	2.07E-01
Sample ID:	452763	Sample Dates:	9/5/2017 - 9/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.51E-02	0.00E+00	1.51E-02
				Cs-134	<9.11E-03	0.00E+00	9.11E-03
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<8.62E-02	0.00E+00	8.62E-02
				K-40	<4.80E-01	0.00E+00	4.80E-01
Sample ID:	453409	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<7.97E-03	0.00E+00	7.97E-03
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<9.35E-02	0.00E+00	9.35E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	453409	Sample Dates:	9/12/2017 - 9/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				K-40	4.08E-01	1.95E-01	6.14E-02
Sample ID:	454175	Sample Dates:	9/19/2017 - 9/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.65E-02	0.00E+00	1.65E-02
				Cs-134	<1.81E-02	0.00E+00	1.81E-02
				Cs-137	<1.51E-02	0.00E+00	1.51E-02
				Be-7	<1.14E-01	0.00E+00	1.14E-01
				K-40	3.19E-01	1.67E-01	5.76E-02
Sample ID:	455035	Sample Dates:	9/26/2017 - 10/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.70E-02	0.00E+00	3.70E-02
				Cs-134	<3.49E-02	0.00E+00	3.49E-02
				Cs-137	<2.16E-02	0.00E+00	2.16E-02
				Be-7	<2.03E-01	0.00E+00	2.03E-01
				K-40	<6.67E-01	0.00E+00	6.67E-01
Sample ID:	455390	Sample Dates:	10/3/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.89E-02	0.00E+00	3.89E-02
				Cs-134	<3.22E-02	0.00E+00	3.22E-02
				Cs-137	<2.47E-02	0.00E+00	2.47E-02
				Be-7	<2.04E-01	0.00E+00	2.04E-01
				K-40	6.49E-01	3.33E-01	4.01E-01
Sample ID:	456007	Sample Dates:	10/10/2017 - 10/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.99E-02	0.00E+00	2.99E-02
				Cs-134	<2.94E-02	0.00E+00	2.94E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	<5.28E-01	0.00E+00	5.28E-01
Sample ID:	461391	Sample Dates:	10/17/2017 - 10/24/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.11E-02	0.00E+00	4.11E-02
				Cs-134	<3.27E-02	0.00E+00	3.27E-02
				Cs-137	<3.47E-02	0.00E+00	3.47E-02
				Be-7	<2.56E-01	0.00E+00	2.56E-01
				K-40	<8.55E-01	0.00E+00	8.55E-01
Sample ID:	461937	Sample Dates:	10/24/2017 - 10/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.58E-02	0.00E+00	5.58E-02
				Cs-134	<2.72E-02	0.00E+00	2.72E-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	1.15E+00	3.26E-01	2.66E-01
Sample ID:	462573	Sample Dates:	10/31/2017 - 11/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.19E-02	0.00E+00	4.19E-02
				Cs-134	<4.05E-02	0.00E+00	4.05E-02
				Cs-137	<4.00E-02	0.00E+00	4.00E-02
				Be-7	<2.15E-01	0.00E+00	2.15E-01
				K-40	9.07E-01	4.17E-01	5.19E-01
Sample ID:	463057	Sample Dates:	11/7/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.19E-02	0.00E+00	5.19E-02
				Cs-134	<3.48E-02	0.00E+00	3.48E-02
				Cs-137	<3.53E-02	0.00E+00	3.53E-02
				Be-7	<2.22E-01	0.00E+00	2.22E-01
				K-40	1.10E+00	3.54E-01	7.26E-02
Sample ID:	463481	Sample Dates:	11/14/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.54E-02	0.00E+00	5.54E-02
				Cs-134	<2.54E-02	0.00E+00	2.54E-02
				Cs-137	<2.57E-02	0.00E+00	2.57E-02
				Be-7	<2.00E-01	0.00E+00	2.00E-01
				K-40	1.36E+00	3.21E-01	4.55E-02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 206 [CONTROL - NW @ 11.3 miles]

Sample ID:	464140	Sample Dates:	11/21/2017 - 11/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.53E-02	0.00E+00	4.53E-02
				Cs-134	<3.50E-02	0.00E+00	3.50E-02
				Cs-137	<3.44E-02	0.00E+00	3.44E-02
				Be-7	<1.98E-01	0.00E+00	1.98E-01
				K-40	1.23E+00	4.43E-01	4.56E-01
Sample ID:	464670	Sample Dates:	11/28/2017 - 12/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.55E-02	0.00E+00	5.55E-02
				Cs-134	<3.37E-02	0.00E+00	3.37E-02
				Cs-137	<3.60E-02	0.00E+00	3.60E-02
				Be-7	<2.41E-01	0.00E+00	2.41E-01
				K-40	1.02E+00	3.67E-01	3.87E-01
Sample ID:	464931	Sample Dates:	12/5/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.28E-02	0.00E+00	5.28E-02
				Cs-134	<3.38E-02	0.00E+00	3.38E-02
				Cs-137	<3.88E-02	0.00E+00	3.88E-02
				Be-7	<2.32E-01	0.00E+00	2.32E-01
				K-40	1.08E+00	3.83E-01	3.15E-01
Sample ID:	465186	Sample Dates:	12/12/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.58E-02	0.00E+00	4.58E-02
				Cs-134	<3.20E-02	0.00E+00	3.20E-02
				Cs-137	<4.31E-02	0.00E+00	4.31E-02
				Be-7	<2.22E-01	0.00E+00	2.22E-01
				K-40	8.07E-01	3.70E-01	4.26E-01
Sample ID:	465568	Sample Dates:	12/19/2017 - 12/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.92E-02	0.00E+00	4.92E-02
				Cs-134	<2.14E-02	0.00E+00	2.14E-02
				Cs-137	<2.54E-02	0.00E+00	2.54E-02
				Be-7	<1.77E-01	0.00E+00	1.77E-01
				K-40	1.00E+00	3.09E-01	3.57E-01
Sample ID:	465948	Sample Dates:	12/26/2017 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.59E-02	0.00E+00	5.59E-02
				Cs-134	<3.02E-02	0.00E+00	3.02E-02
				Cs-137	<2.86E-02	0.00E+00	2.86E-02
				Be-7	<2.05E-01	0.00E+00	2.05E-01
				K-40	9.86E-01	2.92E-01	2.70E-01

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

Sample Point 700 [INDICATOR - SSW @ 5.5 miles]

Sample ID:	445250	Sample Dates:	5/18/2017 - 5/18/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.15E+01	0.00E+00	1.15E+01	
				Co-58	<2.03E+01	0.00E+00	2.03E+01	
				Fe-59	<3.03E+01	0.00E+00	3.03E+01	
				Co-60	<2.39E+01	0.00E+00	2.39E+01	
				Zn-65	<5.98E+01	0.00E+00	5.98E+01	
				Nb-95	<2.40E+01	0.00E+00	2.40E+01	
				I-131	<4.86E+01	0.00E+00	4.86E+01	
				Cs-134	<3.35E+01	0.00E+00	3.35E+01	
				Cs-137	<2.34E+01	0.00E+00	2.34E+01	
				Be-7	<1.85E+02	0.00E+00	1.85E+02	
				K-40	3.80E+03	6.94E+02	4.23E+02	
				Ag-110M	<2.46E+01	0.00E+00	2.46E+01	
				Sb-122	<6.66E+02	0.00E+00	6.66E+02	
				Sb-125	<5.97E+01	0.00E+00	5.97E+01	
Sample ID:	464779	Sample Dates:	11/16/2017 - 11/16/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.93E+01	0.00E+00	3.93E+01	
				Co-58	<5.53E+01	0.00E+00	5.53E+01	
				Fe-59	<1.03E+02	0.00E+00	1.03E+02	

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 700 [INDICATOR - SSW @ 5.5 miles]

Sample ID:	464779	Sample Dates:	11/16/2017 - 11/16/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Co-60	<5.67E+01	0.00E+00	5.67E+01
					Zn-65	<1.13E+02	0.00E+00	1.13E+02
					Nb-95	<6.31E+01	0.00E+00	6.31E+01
					I-131	<9.82E+01	0.00E+00	9.82E+01
					Cs-134	<5.29E+01	0.00E+00	5.29E+01
					Cs-137	<4.87E+01	0.00E+00	4.87E+01
					Be-7	<3.07E+02	0.00E+00	3.07E+02
					K-40	3.59E+03	9.20E+02	1.43E+02
					Ag-110M	<5.73E+01	0.00E+00	5.73E+01
					Sb-122	<1.11E+03	0.00E+00	1.11E+03
					Sb-125	<6.67E+01	0.00E+00	6.67E+01

Sample Point 701 [INDICATOR - SSW @ 5.5 miles]

Sample ID:	445251	Sample Dates:	5/18/2017 - 5/18/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.08E+01	0.00E+00	2.08E+01
					Co-58	<1.72E+01	0.00E+00	1.72E+01
					Fe-59	<5.49E+01	0.00E+00	5.49E+01
					Co-60	<2.52E+01	0.00E+00	2.52E+01
					Zn-65	<4.05E+01	0.00E+00	4.05E+01
					Nb-95	<2.61E+01	0.00E+00	2.61E+01
					I-131	<4.78E+01	0.00E+00	4.78E+01
					Cs-134	<2.45E+01	0.00E+00	2.45E+01
					Cs-137	<2.09E+01	0.00E+00	2.09E+01
					Be-7	<1.47E+02	0.00E+00	1.47E+02
					K-40	2.97E+03	5.63E+02	2.41E+02
					Ag-110M	<1.68E+01	0.00E+00	1.68E+01
					Sb-122	<4.50E+02	0.00E+00	4.50E+02
					Sb-125	<4.32E+01	0.00E+00	4.32E+01

Sample ID:	464780	Sample Dates:	11/16/2017 - 11/16/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.95E+01	0.00E+00	2.95E+01
					Co-58	<3.97E+01	0.00E+00	3.97E+01
					Fe-59	<5.99E+01	0.00E+00	5.99E+01
					Co-60	<2.61E+01	0.00E+00	2.61E+01
					Zn-65	<5.87E+01	0.00E+00	5.87E+01
					Nb-95	<4.00E+01	0.00E+00	4.00E+01
					I-131	<6.64E+01	0.00E+00	6.64E+01
					Cs-134	<2.93E+01	0.00E+00	2.93E+01
					Cs-137	<2.50E+01	0.00E+00	2.50E+01
					Be-7	<2.73E+02	0.00E+00	2.73E+02
					K-40	2.69E+03	6.86E+02	4.22E+02
					Ag-110M	<2.79E+01	0.00E+00	2.79E+01
					Sb-122	<7.56E+02	0.00E+00	7.56E+02
					Sb-125	<8.42E+01	0.00E+00	8.42E+01

Sample Point 702 [INDICATOR - SSW @ 5.5 miles]

Sample ID:	445252	Sample Dates:	5/18/2017 - 5/18/2017	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.45E+01	0.00E+00	1.45E+01
					Co-58	<1.22E+01	0.00E+00	1.22E+01
					Fe-59	<4.19E+01	0.00E+00	4.19E+01
					Co-60	<2.26E+01	0.00E+00	2.26E+01
					Zn-65	<4.36E+01	0.00E+00	4.36E+01
					Nb-95	<2.14E+01	0.00E+00	2.14E+01
					I-131	<3.92E+01	0.00E+00	3.92E+01
					Cs-134	<1.89E+01	0.00E+00	1.89E+01
					Cs-137	<1.37E+01	0.00E+00	1.37E+01
					Be-7	<1.28E+02	0.00E+00	1.28E+02
					K-40	3.42E+03	5.74E+02	2.41E+02
					Ag-110M	<1.48E+01	0.00E+00	1.48E+01
					Sb-122	<3.69E+02	0.00E+00	3.69E+02
					Sb-125	<3.75E+01	0.00E+00	3.75E+01

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

Sample Point 702 [INDICATOR - SSW @ 5.5 miles]

Sample ID:	464781	Sample Dates:	11/16/2017 - 11/16/2017	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.05E+01	0.00E+00	2.05E+01	
				Co-58	<2.85E+01	0.00E+00	2.85E+01	
				Fe-59	<6.95E+01	0.00E+00	6.95E+01	
				Co-60	<3.82E+01	0.00E+00	3.82E+01	
				Zn-65	<6.10E+01	0.00E+00	6.10E+01	
				Nb-95	<3.82E+01	0.00E+00	3.82E+01	
				I-131	<5.59E+01	0.00E+00	5.59E+01	
				Cs-134	<2.93E+01	0.00E+00	2.93E+01	
				Cs-137	<2.73E+01	0.00E+00	2.73E+01	
				Be-7	<2.45E+02	0.00E+00	2.45E+02	
				K-40	3.06E+03	6.72E+02	8.63E+01	
				Ag-110M	<2.87E+01	0.00E+00	2.87E+01	
				Sb-122	<7.63E+02	0.00E+00	7.63E+02	
				Sb-125	<4.66E+01	0.00E+00	4.66E+01	

Sample Point 703 [CONTROL - -- @ 0 miles]

Sample ID:	445253	Sample Dates:	5/18/2017 - 5/18/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.80E+01	0.00E+00	1.80E+01	
				Co-58	<1.51E+01	0.00E+00	1.51E+01	
				Fe-59	<4.25E+01	0.00E+00	4.25E+01	
				Co-60	<2.29E+01	0.00E+00	2.29E+01	
				Zn-65	<5.39E+01	0.00E+00	5.39E+01	
				Nb-95	<2.64E+01	0.00E+00	2.64E+01	
				I-131	<5.62E+01	0.00E+00	5.62E+01	
				Cs-134	<2.49E+01	0.00E+00	2.49E+01	
				Cs-137	<2.25E+01	0.00E+00	2.25E+01	
				Be-7	<1.76E+02	0.00E+00	1.76E+02	
				K-40	4.09E+03	6.88E+02	2.74E+02	
				Ag-110M	<1.83E+01	0.00E+00	1.83E+01	
				Sb-122	<6.63E+02	0.00E+00	6.63E+02	
				Sb-125	<4.63E+01	0.00E+00	4.63E+01	

Sample ID:	464782	Sample Dates:	11/16/2017 - 11/16/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.95E+01	0.00E+00	2.95E+01	
				Co-58	<3.46E+01	0.00E+00	3.46E+01	
				Fe-59	<4.73E+01	0.00E+00	4.73E+01	
				Co-60	<4.26E+01	0.00E+00	4.26E+01	
				Zn-65	<4.65E+01	0.00E+00	4.65E+01	
				Nb-95	<3.04E+01	0.00E+00	3.04E+01	
				I-131	<7.61E+01	0.00E+00	7.61E+01	
				Cs-134	<2.93E+01	0.00E+00	2.93E+01	
				Cs-137	<3.05E+01	0.00E+00	3.05E+01	
				Be-7	<2.25E+02	0.00E+00	2.25E+02	
				K-40	3.19E+03	7.25E+02	9.62E+01	
				Ag-110M	<2.55E+01	0.00E+00	2.55E+01	
				Sb-122	<9.01E+02	0.00E+00	9.01E+02	
				Sb-125	<6.33E+01	0.00E+00	6.33E+01	

Sample Point 704 [CONTROL - -- @ 0 miles]

Sample ID:	445254	Sample Dates:	5/18/2017 - 5/18/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.72E+01	0.00E+00	2.72E+01	
				Co-58	<2.32E+01	0.00E+00	2.32E+01	
				Fe-59	<4.02E+01	0.00E+00	4.02E+01	
				Co-60	<6.33E+00	0.00E+00	6.33E+00	
				Zn-65	<3.89E+01	0.00E+00	3.89E+01	
				Nb-95	<2.71E+01	0.00E+00	2.71E+01	
				I-131	<4.18E+01	0.00E+00	4.18E+01	
				Cs-134	<2.55E+01	0.00E+00	2.55E+01	
				Cs-137	<2.80E+01	0.00E+00	2.80E+01	
				Be-7	<1.84E+02	0.00E+00	1.84E+02	
				K-40	3.83E+03	7.06E+02	4.04E+02	

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 704 [CONTROL - -- @ 0 miles]

Sample ID:	445254	Sample Dates:	5/18/2017 - 5/18/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Ag-110M	<1.86E+01	0.00E+00	1.86E+01
					Sb-122	<7.96E+02	0.00E+00	7.96E+02
					Sb-125	<5.09E+01	0.00E+00	5.09E+01
Sample ID:	464783	Sample Dates:	11/16/2017 - 11/16/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.48E+01	0.00E+00	3.48E+01
					Co-58	<3.73E+01	0.00E+00	3.73E+01
					Fe-59	<7.75E+01	0.00E+00	7.75E+01
					Co-60	<9.63E+00	0.00E+00	9.63E+00
					Zn-65	<7.61E+01	0.00E+00	7.61E+01
					Nb-95	<3.72E+01	0.00E+00	3.72E+01
					I-131	<6.56E+01	0.00E+00	6.56E+01
					Cs-134	<3.85E+01	0.00E+00	3.85E+01
					Cs-137	<2.17E+01	0.00E+00	2.17E+01
					Be-7	<2.26E+02	0.00E+00	2.26E+02
					K-40	2.85E+03	6.79E-02	9.65E+01
					Ag-110M	<1.98E+01	0.00E+00	1.98E+01
					Sb-122	<7.73E+02	0.00E+00	7.73E+02
					Sb-125	<6.83E+01	0.00E+00	6.83E+01

Sample Point 705 [CONTROL - -- @ 0 miles]

Sample ID:	445255	Sample Dates:	5/18/2017 - 5/18/2017	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.70E+01	0.00E+00	1.70E+01
					Co-58	<1.40E+01	0.00E+00	1.40E+01
					Fe-59	<4.48E+01	0.00E+00	4.48E+01
					Co-60	<2.24E+01	0.00E+00	2.24E+01
					Zn-65	<4.87E+01	0.00E+00	4.87E+01
					Nb-95	<1.99E+01	0.00E+00	1.99E+01
					I-131	<4.08E+01	0.00E+00	4.08E+01
					Cs-134	<2.00E+01	0.00E+00	2.00E+01
					Cs-137	<1.60E+01	0.00E+00	1.60E+01
					Be-7	<1.28E+02	0.00E+00	1.28E+02
					K-40	3.18E+03	5.43E+02	2.35E+02
					Ag-110M	<1.25E+01	0.00E+00	1.25E+01
					Sb-122	<4.04E+02	0.00E+00	4.04E+02
					Sb-125	<2.83E+01	0.00E+00	2.83E+01
Sample ID:	464784	Sample Dates:	11/16/2017 - 11/16/2017	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.00E+01	0.00E+00	3.00E+01
					Co-58	<2.64E+01	0.00E+00	2.64E+01
					Fe-59	<7.82E+01	0.00E+00	7.82E+01
					Co-60	<3.05E+01	0.00E+00	3.05E+01
					Zn-65	<7.68E+01	0.00E+00	7.68E+01
					Nb-95	<3.45E+01	0.00E+00	3.45E+01
					I-131	<6.65E+01	0.00E+00	6.65E+01
					Cs-134	<3.04E+01	0.00E+00	3.04E+01
					Cs-137	<2.60E+01	0.00E+00	2.60E+01
					Be-7	<2.88E+02	0.00E+00	2.88E+02
					K-40	2.84E+03	7.39E+02	6.48E+02
					Ag-110M	<2.59E+01	0.00E+00	2.59E+01
					Sb-122	<5.71E+02	0.00E+00	5.71E+02
					Sb-125	<6.68E+01	0.00E+00	6.68E+01

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

Sample ID:	464785	Sample Dates:	9/19/2017 - 11/7/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.65E+01	0.00E+00	3.65E+01
					Co-58	<3.58E+01	0.00E+00	3.58E+01
					Fe-59	<8.37E+01	0.00E+00	8.37E+01
					Co-60	<3.49E+01	0.00E+00	3.49E+01
					Zn-65	<7.84E+01	0.00E+00	7.84E+01
					Nb-95	<6.95E+01	0.00E+00	6.95E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 706 [INDICATOR - - @ 0 miles]

Sample ID:	464785	Sample Dates:	9/19/2017 - 11/7/2017	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<1.37E+03	0.00E+00	1.37E+03
					Cs-134	<4.92E+01	0.00E+00	4.92E+01
					Cs-137	<3.45E+01	0.00E+00	3.45E+01
					Be-7	<4.17E+02	0.00E+00	4.17E+02
					K-40	2.32E+03	6.62E+02	4.88E+02
					Ag-110M	<3.69E+01	0.00E+00	3.69E+01
					Sb-122	<3.61E+06	0.00E+00	3.61E+06
					Sb-125	<7.26E+01	0.00E+00	7.26E+01

Sample Point 707 [INDICATOR - - @ 0 miles]

Sample ID:	464786	Sample Dates:	9/19/2017 - 10/17/2017	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.34E+01	0.00E+00	3.34E+01
					Co-58	<4.49E+01	0.00E+00	4.49E+01
					Fe-59	<1.41E+02	0.00E+00	1.41E+02
					Co-60	<2.72E+01	0.00E+00	2.72E+01
					Zn-65	<8.83E+01	0.00E+00	8.83E+01
					Nb-95	<9.11E+01	0.00E+00	9.11E+01
					I-131	<2.63E+03	0.00E+00	2.63E+03
					Cs-134	<2.70E+01	0.00E+00	2.70E+01
					Cs-137	<3.14E+01	0.00E+00	3.14E+01
					Be-7	<4.97E+02	0.00E+00	4.97E+02
					K-40	2.44E+03	6.29E+02	9.88E+01
					Ag-110M	<3.48E+01	0.00E+00	3.48E+01
					Sb-122	<5.51E+07	0.00E+00	5.51E+07
					Sb-125	<6.70E+01	0.00E+00	6.70E+01

Sample Point 708 [INDICATOR - - @ 0 miles]

Sample ID:	464787	Sample Dates:	9/19/2017 - 10/17/2017	INVERTEBRA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.39E+01	0.00E+00	3.39E+01
					Co-58	<5.08E+01	0.00E+00	5.08E+01
					Fe-59	<1.87E+02	0.00E+00	1.87E+02
					Co-60	<3.46E+01	0.00E+00	3.46E+01
					Zn-65	<8.92E+01	0.00E+00	8.92E+01
					Nb-95	<9.93E+01	0.00E+00	9.93E+01
					I-131	<3.65E+03	0.00E+00	3.65E+03
					Cs-134	<3.54E+01	0.00E+00	3.54E+01
					Cs-137	<3.85E+01	0.00E+00	3.85E+01
					Be-7	<3.39E+02	0.00E+00	3.39E+02
					K-40	2.40E+03	6.90E+02	5.73E+02
					Ag-110M	<3.28E+01	0.00E+00	3.28E+01
					Sb-122	<4.27E+07	0.00E+00	4.27E+07
					Sb-125	<1.06E+02	0.00E+00	1.06E+02

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

Sample Point 404 [INDICATOR - SW @ 0.16 miles]

Sample ID:	438890	Sample Dates:	3/9/2017 - 3/9/2017		Nuclide	Activity	2 Sigma Error	MDA
					H3GW	<-9.7E+01	0.00E+00	2.52E+02
Sample ID:	448195	Sample Dates:	6/28/2017 - 6/28/2017		Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<7.16E+00	0.00E+00	7.16E+00
					Co-58	<7.40E+00	0.00E+00	7.40E+00
					Fe-59	<1.32E+01	0.00E+00	1.32E+01
					Co-60	<4.21E+00	0.00E+00	4.21E+00
					Zn-65	<1.55E+01	0.00E+00	1.55E+01
					Zr-95	<1.27E+01	0.00E+00	1.27E+01
					Nb-95	<1.04E+01	0.00E+00	1.04E+01
					I-131	<1.26E+01	0.00E+00	1.26E+01
					Cs-134	<7.39E+00	0.00E+00	7.39E+00
					Cs-137	<7.14E+00	0.00E+00	7.15E+00
					La-140	<1.79E+02	0.00E+00	1.79E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 404 [INDICATOR - SW @ 0.16 miles]

Sample ID:	448195	Sample Dates:	6/28/2017 - 6/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Ba-140	<3.94E+01	0.00E+00	3.94E+01
				Total-Gam	0.00E+00		
				H3GW	<1.2E+02	0.00E+00	2.28E+02
Sample ID:	450505	Sample Dates:	9/14/2017 - 9/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<5.6E+01	0.00E+00	1.95E+02
Sample ID:	463817	Sample Dates:	12/13/2017 - 12/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.04E+00	0.00E+00	5.04E+00
				Co-58	<6.58E+00	0.00E+00	6.58E+00
				Fe-59	<1.31E+01	0.00E+00	1.31E+01
				Co-60	<5.37E+00	0.00E+00	5.37E+00
				Zn-65	<1.04E+01	0.00E+00	1.04E+01
				Zr-95	<9.95E+00	0.00E+00	9.95E+00
				Nb-95	<6.67E+00	0.00E+00	6.67E+00
				I-131	<7.75E+00	0.00E+00	7.75E+00
				Cs-134	<5.34E+00	0.00E+00	5.34E+00
				Cs-137	<6.01E+00	0.00E+00	6.01E+00
				BaLa-140	<8.89E+00	0.00E+00	8.89E+00
				Total-Gam	0.00E+00		
				H3GW	<1.9E+02	0.00E+00	1.95E+02

Sample Point 407 [INDICATOR - ENE @ 0.06 miles]

Sample ID:	439721	Sample Dates:	3/22/2017 - 3/22/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.5E+02	0.00E+00	2.48E+02
Sample ID:	448197	Sample Dates:	6/28/2017 - 6/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.77E+00	0.00E+00	8.77E+00
				Co-58	<6.77E+00	0.00E+00	6.77E+00
				Fe-59	<1.81E+01	0.00E+00	1.81E+01
				Co-60	<8.42E+00	0.00E+00	8.42E+00
				Zn-65	<1.27E+01	0.00E+00	1.27E+01
				Zr-95	<1.27E+01	0.00E+00	1.27E+01
				Nb-95	<9.01E+00	0.00E+00	9.01E+00
				I-131	<1.23E+01	0.00E+00	1.23E+01
				Cs-134	<7.57E+00	0.00E+00	7.57E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<1.33E+02	0.00E+00	1.33E+02
				Ba-140	<3.34E+01	0.00E+00	3.34E+01
				Total-Gam	0.00E+00		
				H3GW	3.95E+02	1.42E+02	2.30E+02
Sample ID:	450506	Sample Dates:	9/21/2017 - 9/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	3.06E+02	1.23E+02	1.96E+02
Sample ID:	463818	Sample Dates:	12/14/2017 - 12/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.71E+00	0.00E+00	5.71E+00
				Co-58	<5.53E+00	0.00E+00	5.53E+00
				Fe-59	<8.94E+00	0.00E+00	8.94E+00
				Co-60	<6.39E+00	0.00E+00	6.39E+00
				Zn-65	<1.01E+01	0.00E+00	1.01E+01
				Zr-95	<9.66E+00	0.00E+00	9.66E+00
				Nb-95	<6.57E+00	0.00E+00	6.57E+00
				I-131	<8.46E+00	0.00E+00	8.46E+00
				Cs-134	<6.76E+00	0.00E+00	6.76E+00
				Cs-137	<3.61E+00	0.00E+00	3.61E+00
				BaLa-140	<9.80E+00	0.00E+00	9.80E+00
				Total-Gam	0.00E+00		
				H3GW	4.28E+02	1.21E+02	1.84E+02

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

Sample Point 409 [INDICATOR - NE @ 0.65 miles]

Sample ID:	438880	Sample Dates:	3/6/2017 - 3/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<9.9E+01	0.00E+00	2.44E+02
Sample ID:	446553	Sample Dates:	6/5/2017 - 6/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.92E+00	0.00E+00	7.92E+00
				Co-58	<4.56E+00	0.00E+00	4.56E+00
				Fe-59	<1.47E+01	0.00E+00	1.47E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<1.44E+01	0.00E+00	1.44E+01
				Zr-95	<1.04E+01	0.00E+00	1.04E+01
				Nb-95	<8.63E+00	0.00E+00	8.63E+00
				I-131	<7.36E+00	0.00E+00	7.36E+00
				Cs-134	<6.42E+00	0.00E+00	6.43E+00
				Cs-137	<9.50E+00	0.00E+00	9.50E+00
				La-140	<2.23E+01	0.00E+00	2.23E+01
				Ba-140	<2.85E+01	0.00E+00	2.85E+01
				Total-Gam	0.00E+00		
				H3GW	<1.1E+02	0.00E+00	2.54E+02
Sample ID:	450507	Sample Dates:	9/18/2017 - 9/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<6.1E+01	0.00E+00	1.97E+02
Sample ID:	463819	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.91E+00	0.00E+00	5.91E+00
				Co-58	<6.67E+00	0.00E+00	6.67E+00
				Fe-59	<1.28E+01	0.00E+00	1.28E+01
				Co-60	<6.89E+00	0.00E+00	6.89E+00
				Zn-65	<1.33E+01	0.00E+00	1.33E+01
				Zr-95	<1.00E+01	0.00E+00	1.00E+01
				Nb-95	<6.47E+00	0.00E+00	6.47E+00
				I-131	<9.68E+00	0.00E+00	9.68E+00
				Cs-134	<6.18E+00	0.00E+00	6.18E+00
				Cs-137	<5.90E+00	0.00E+00	5.90E+00
				BaLa-140	<9.48E+00	0.00E+00	9.48E+00
				Total-Gam	0.00E+00		
				H3GW	<1.1E+02	0.00E+00	1.95E+02

Sample Point 410 [INDICATOR - NE @ 0.65 miles]

Sample ID:	438881	Sample Dates:	3/6/2017 - 3/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.3E+02	0.00E+00	2.44E+02
Sample ID:	446554	Sample Dates:	6/5/2017 - 6/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.08E+01	0.00E+00	1.08E+01
				Co-58	<7.64E+00	0.00E+00	7.64E+00
				Fe-59	<1.68E+01	0.00E+00	1.68E+01
				Co-60	<7.28E+00	0.00E+00	7.28E+00
				Zn-65	<1.35E+01	0.00E+00	1.35E+01
				Zr-95	<1.30E+01	0.00E+00	1.30E+01
				Nb-95	<1.05E+01	0.00E+00	1.05E+01
				I-131	<1.04E+01	0.00E+00	1.04E+01
				Cs-134	<8.19E+00	0.00E+00	8.19E+00
				Cs-137	<9.50E+00	0.00E+00	9.50E+00
				La-140	<2.44E+01	0.00E+00	2.44E+01
				Ba-140	<3.19E+01	0.00E+00	3.19E+01
				Total-Gam	0.00E+00		
				H3GW	<1.1E+02	0.00E+00	2.55E+02
Sample ID:	450508	Sample Dates:	9/18/2017 - 9/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<8.5E+01	0.00E+00	1.99E+02
Sample ID:	463820	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.57E+00	0.00E+00	4.57E+00
				Co-58	<4.74E+00	0.00E+00	4.74E+00
				Fe-59	<9.89E+00	0.00E+00	9.89E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 410 [INDICATOR - NE @ 0.65 miles]

Sample ID:	463820	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<5.23E+00	0.00E+00	5.23E+00
				Zn-65	<9.29E+00	0.00E+00	9.29E+00
				Zr-95	<7.65E+00	0.00E+00	7.65E+00
				Nb-95	<5.63E+00	0.00E+00	5.63E+00
				I-131	<7.72E+00	0.00E+00	7.72E+00
				Cs-134	<5.57E+00	0.00E+00	5.57E+00
				Cs-137	<5.20E+00	0.00E+00	5.20E+00
				BaLa-140	<1.09E+01	0.00E+00	1.09E+01
				Total-Gam	0.00E+00		
				H3GW	<-1.7E+02	0.00E+00	1.95E+02

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

Sample ID:	438883	Sample Dates:	3/6/2017 - 3/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.04E+01	0.00E+00	2.44E+02

Sample ID:	447440	Sample Dates:	6/20/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.41E+00	0.00E+00	8.41E+00
				Co-58	<7.83E+00	0.00E+00	7.83E+00
				Fe-59	<1.30E+01	0.00E+00	1.30E+01
				Co-60	<8.40E+00	0.00E+00	8.40E+00
				Zn-65	<2.04E+01	0.00E+00	2.04E+01
				Zr-95	<1.63E+01	0.00E+00	1.63E+01
				Nb-95	<8.24E+00	0.00E+00	8.24E+00
				I-131	<7.99E+00	0.00E+00	7.99E+00
				Cs-134	<7.53E+00	0.00E+00	7.53E+00
				Cs-137	<8.86E+00	0.00E+00	8.86E+00
				La-140	<1.14E+01	0.00E+00	1.14E+01
				Ba-140	<2.49E+01	0.00E+00	2.49E+01
				Total-Gam	0.00E+00		
				H3GW	<5.12E+01	0.00E+00	2.39E+02

Sample ID:	450515	Sample Dates:	9/11/2017 - 9/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.07E+02	0.00E+00	2.03E+02

Sample ID:	463828	Sample Dates:	12/18/2017 - 12/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.05E+00	0.00E+00	6.05E+00
				Co-58	<4.79E+00	0.00E+00	4.79E+00
				Fe-59	<9.64E+00	0.00E+00	9.64E+00
				Co-60	<6.05E+00	0.00E+00	6.05E+00
				Zn-65	<1.37E+01	0.00E+00	1.37E+01
				Zr-95	<1.18E+01	0.00E+00	1.18E+01
				Nb-95	<6.13E+00	0.00E+00	6.13E+00
				I-131	<7.53E+00	0.00E+00	7.53E+00
				Cs-134	<7.01E+00	0.00E+00	7.01E+00
				Cs-137	<6.91E+00	0.00E+00	6.91E+00
				BaLa-140	<4.38E+00	0.00E+00	4.38E+00
				Total-Gam	0.00E+00		
				H3GW	<1.55E+02	0.00E+00	1.84E+02

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

Sample ID:	438895	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<-8.2E+01	0.00E+00	2.56E+02

Sample ID:	447939	Sample Dates:	6/26/2017 - 6/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.45E+00	0.00E+00	6.45E+00
				Co-58	<8.81E+00	0.00E+00	8.81E+00
				Fe-59	<1.71E+01	0.00E+00	1.71E+01
				Co-60	<7.10E+00	0.00E+00	7.10E+00
				Zn-65	<2.04E+01	0.00E+00	2.04E+01
				Zr-95	<1.42E+01	0.00E+00	1.42E+01
				Nb-95	<7.00E+00	0.00E+00	7.00E+00
				I-131	<8.92E+00	0.00E+00	8.93E+00

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

Sample Point 423 [INDICATOR - - @ 0 miles]

Sample ID:	447939	Sample Dates:	6/26/2017 - 6/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<6.42E+00	0.00E+00	6.42E+00
				Cs-137	<7.67E+00	0.00E+00	7.67E+00
				La-140	<1.27E+01	0.00E+00	1.27E+01
				Ba-140	<3.14E+01	0.00E+00	3.14E+01
				Total-Gam	0.00E+00		
				H3GW	<6.61E+01	0.00E+00	2.40E+02

Sample ID:	450517	Sample Dates:	9/14/2017 - 9/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<3.3E+01	0.00E+00	1.95E+02

Sample ID:	463833	Sample Dates:	12/19/2017 - 12/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.35E+00	0.00E+00	6.35E+00
				Co-58	<4.98E+00	0.00E+00	4.98E+00
				Fe-59	<1.09E+01	0.00E+00	1.09E+01
				Co-60	<7.70E+00	0.00E+00	7.70E+00
				Zn-65	<1.12E+01	0.00E+00	1.12E+01
				Zr-95	<9.68E+00	0.00E+00	9.68E+00
				Nb-95	<6.73E+00	0.00E+00	6.73E+00
				I-131	<9.38E+00	0.00E+00	9.38E+00
				Cs-134	<6.39E+00	0.00E+00	6.39E+00
				Cs-137	<4.84E+00	0.00E+00	4.84E+00
				BaLa-140	<1.19E+01	0.00E+00	1.19E+01
				Total-Gam	0.00E+00		
				H3GW	<1.4E+02	0.00E+00	1.92E+02

Sample Point 424 [INDICATOR - - @ 0 miles]

Sample ID:	438896	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.7E+02	0.00E+00	2.57E+02

Sample ID:	447940	Sample Dates:	6/26/2017 - 6/26/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.07E+00	0.00E+00	7.07E+00
				Co-58	<9.70E+00	0.00E+00	9.70E+00
				Fe-59	<1.45E+01	0.00E+00	1.45E+01
				Co-60	<8.40E+00	0.00E+00	8.40E+00
				Zn-65	<1.97E+01	0.00E+00	1.97E+01
				Zr-95	<1.19E+01	0.00E+00	1.19E+01
				Nb-95	<9.73E+00	0.00E+00	9.73E+00
				I-131	<8.55E+00	0.00E+00	8.55E+00
				Cs-134	<7.53E+00	0.00E+00	7.53E+00
				Cs-137	<7.41E+00	0.00E+00	7.41E+00
				La-140	<1.32E+01	0.00E+00	1.32E+01
				Ba-140	<3.27E+01	0.00E+00	3.27E+01
				Total-Gam	0.00E+00		
				H3GW	<3.42E+01	0.00E+00	2.41E+02

Sample ID:	450518	Sample Dates:	9/14/2017 - 9/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.4E+02	0.00E+00	1.96E+02

Sample ID:	463834	Sample Dates:	1/10/2018 - 1/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.56E+00	0.00E+00	6.56E+00
				Co-58	<5.38E+00	0.00E+00	5.38E+00
				Fe-59	<1.28E+01	0.00E+00	1.28E+01
				Co-60	<3.29E+00	0.00E+00	3.29E+00
				Zn-65	<1.12E+01	0.00E+00	1.12E+01
				Zr-95	<7.39E+00	0.00E+00	7.39E+00
				Nb-95	<5.87E+00	0.00E+00	5.87E+00
				I-131	<7.14E+00	0.00E+00	7.14E+00
				Cs-134	<4.65E+00	0.00E+00	4.65E+00
				Cs-137	<6.40E+00	0.00E+00	6.40E+00
				BaLa-140	<6.43E+00	0.00E+00	6.43E+00
				Total-Gam	0.00E+00		
				H3GW	<5.6E+01	0.00E+00	1.84E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 426 [INDICATOR - - @ 0 miles]

Sample ID:	439270	Sample Dates:	3/16/2017 - 3/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<3.3E+01	0.00E+00	2.51E+02
Sample ID:	448198	Sample Dates:	6/29/2017 - 6/29/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.54E+00	0.00E+00	6.54E+00
				Co-58	<9.80E+00	0.00E+00	9.80E+00
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<7.88E+00	0.00E+00	7.87E+00
				Zn-65	<1.79E+01	0.00E+00	1.79E+01
				Zr-95	<1.46E+01	0.00E+00	1.46E+01
				Nb-95	<9.24E+00	0.00E+00	9.24E+00
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<6.65E+00	0.00E+00	6.65E+00
				Cs-137	<9.50E+00	0.00E+00	9.50E+00
				La-140	<1.24E+02	0.00E+00	1.24E+02
				Ba-140	<3.60E+01	0.00E+00	3.60E+01
				Total-Gam	0.00E+00		
				H3GW	<1.5E+01	0.00E+00	2.30E+02
Sample ID:	450520	Sample Dates:	9/14/2017 - 9/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<4.5E+01	0.00E+00	2.00E+02
Sample ID:	463836	Sample Dates:	12/13/2017 - 12/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.67E+00	0.00E+00	5.67E+00
				Co-58	<6.01E+00	0.00E+00	6.01E+00
				Fe-59	<1.12E+01	0.00E+00	1.12E+01
				Co-60	<4.32E+00	0.00E+00	4.32E+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	<6.75E+00	0.00E+00	6.75E+00
				I-131	<9.82E+00	0.00E+00	9.82E+00
				Cs-134	<6.15E+00	0.00E+00	6.15E+00
				Cs-137	<5.50E+00	0.00E+00	5.50E+00
				BaLa-140	<1.20E+01	0.00E+00	1.20E+01
				Total-Gam	0.00E+00		
				H3GW	<1.3E+02	0.00E+00	1.95E+02

Sample Point 429 [INDICATOR - - @ 0 miles]

Sample ID:	438884	Sample Dates:	3/6/2017 - 3/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<5.7E+01	0.00E+00	2.44E+02
Sample ID:	447442	Sample Dates:	6/20/2017 - 6/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.02E+01	0.00E+00	1.02E+01
				Co-58	<9.99E+00	0.00E+00	9.99E+00
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<7.86E+00	0.00E+00	7.86E+00
				Zn-65	<1.61E+01	0.00E+00	1.61E+01
				Zr-95	<1.87E+01	0.00E+00	1.87E+01
				Nb-95	<1.31E+01	0.00E+00	1.31E+01
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<9.09E+00	0.00E+00	9.09E+00
				Cs-137	<1.03E+01	0.00E+00	1.03E+01
				La-140	<2.01E+01	0.00E+00	2.01E+01
				Ba-140	<3.64E+01	0.00E+00	3.64E+01
				Total-Gam	0.00E+00		
				H3GW	<1.8E+02	0.00E+00	2.39E+02
Sample ID:	450521	Sample Dates:	9/11/2017 - 9/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.6E+02	0.00E+00	2.03E+02
Sample ID:	463837	Sample Dates:	12/15/2017 - 12/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.47E+00	0.00E+00	7.47E+00
				Co-58	<7.07E+00	0.00E+00	7.07E+00
				Fe-59	<1.55E+01	0.00E+00	1.55E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 429 [INDICATOR - - @ 0 miles]

Sample ID:	463837	Sample Dates:	12/15/2017 - 12/15/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<7.50E+00	0.00E+00	7.50E+00
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<9.52E+00	0.00E+00	9.52E+00
				Nb-95	<6.98E+00	0.00E+00	6.98E+00
				I-131	<1.03E+01	0.00E+00	1.03E+01
				Cs-134	<8.96E+00	0.00E+00	8.96E+00
				Cs-137	<5.36E+00	0.00E+00	5.36E+00
				BaLa-140	<1.12E+01	0.00E+00	1.12E+01
				Total-Gam	0.00E+00		
				H3GW	<0.00E+00	0.00E+00	1.84E+02

Sample Point 612 [INDICATOR - - @ 0 miles]

Sample ID:	439605	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<1.5E+02	0.00E+00	2.55E+02

Sample ID:	448199	Sample Dates:	6/28/2017 - 6/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.54E+00	0.00E+00	8.54E+00
				Co-58	<6.48E+00	0.00E+00	6.48E+00
				Fe-59	<1.61E+01	0.00E+00	1.61E+01
				Co-60	<7.61E+00	0.00E+00	7.61E+00
				Zn-65	<1.64E+01	0.00E+00	1.64E+01
				Zr-95	<1.81E+01	0.00E+00	1.81E+01
				Nb-95	<9.95E+00	0.00E+00	9.95E+00
				I-131	<1.61E+01	0.00E+00	1.61E+01
				Cs-134	<8.39E+00	0.00E+00	8.39E+00
				Cs-137	<8.86E+00	0.00E+00	8.86E+00
				La-140	<2.36E+02	0.00E+00	2.36E+02
				Ba-140	<3.39E+01	0.00E+00	3.39E+01
				Total-Gam	0.00E+00		
				H3GW	<1.89E+02	0.00E+00	2.31E+02

Sample ID:	450522	Sample Dates:	9/20/2017 - 9/20/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3GW	<5.38E+01	0.00E+00	1.96E+02

Sample ID:	463839	Sample Dates:	12/14/2017 - 12/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.77E+00	0.00E+00	5.77E+00
				Co-58	<6.41E+00	0.00E+00	6.41E+00
				Fe-59	<1.20E+01	0.00E+00	1.20E+01
				Co-60	<4.15E+00	0.00E+00	4.15E+00
				Zn-65	<1.26E+01	0.00E+00	1.26E+01
				Zr-95	<1.04E+01	0.00E+00	1.04E+01
				Nb-95	<6.32E+00	0.00E+00	6.32E+00
				I-131	<8.95E+00	0.00E+00	8.95E+00
				Cs-134	<6.69E+00	0.00E+00	6.69E+00
				Cs-137	<5.60E+00	0.00E+00	5.60E+00
				BaLa-140	<8.23E+00	0.00E+00	8.23E+00
				Total-Gam	0.00E+00		
				H3GW	<8.93E+01	0.00E+00	1.84E+02

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

Sample Point 500 [INDICATOR - SSW @ 5 miles]

Sample ID:	445247	Sample Dates:	5/19/2017 - 5/19/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.30E+01	0.00E+00	1.30E+01
				Co-58	<1.32E+01	0.00E+00	1.32E+01
				Fe-59	<2.43E+01	0.00E+00	2.43E+01
				Co-60	<1.34E+01	0.00E+00	1.34E+01
				Zn-65	<2.60E+01	0.00E+00	2.60E+01
				Zr-95	<2.65E+01	0.00E+00	2.65E+01
				Nb-95	<1.34E+01	0.00E+00	1.34E+01
				I-131	<2.50E+01	0.00E+00	2.50E+01
				Cs-134	<1.62E+01	0.00E+00	1.62E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 500 [INDICATOR - SSW @ 5 miles]

Sample ID:	445247	Sample Dates:	5/19/2017 - 5/19/2017	Nuclide	Activity	2 Sigma Error	MDA
Cs-137	<1.23E+01	0.00E+00	1.23E+01				
Be-7	<1.49E+02	0.00E+00	1.49E+02				
K-40	1.29E+03	2.68E+02	1.29E+02				
Co-57	<8.38E+00	0.00E+00	8.38E+00				
Mo-99	<1.71E+03	0.00E+00	1.71E+03				
Ag-110M	<1.12E+01	0.00E+00	1.12E+01				
Sb-122	<3.08E+02	0.00E+00	3.08E+02				
Sb-125	<2.67E+01	0.00E+00	2.67E+01				
Sample ID:	463859	Sample Dates:	11/14/2017 - 11/14/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.71E+01	0.00E+00	1.71E+01				
Co-58	<1.16E+01	0.00E+00	1.16E+01				
Fe-59	<2.96E+01	0.00E+00	2.96E+01				
Co-60	<1.46E+01	0.00E+00	1.46E+01				
Zn-65	<2.57E+01	0.00E+00	2.57E+01				
Zr-95	<2.80E+01	0.00E+00	2.80E+01				
Nb-95	<1.47E+01	0.00E+00	1.47E+01				
I-131	<2.19E+01	0.00E+00	2.19E+01				
Cs-134	<1.91E+01	0.00E+00	1.91E+01				
Cs-137	<1.44E+01	0.00E+00	1.44E+01				
Be-7	<1.31E+02	0.00E+00	1.31E+02				
K-40	1.46E+03	3.10E+02	1.28E+02				
Co-57	<1.01E+01	0.00E+00	1.01E+01				
Mo-99	<5.15E+02	0.00E+00	5.15E+02				
Ag-110M	<1.69E+01	0.00E+00	1.69E+01				
Sb-122	<5.74E+01	0.00E+00	5.74E+01				
Sb-125	<3.62E+01	0.00E+00	3.62E+01				

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

Sample ID:	446422	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<7.10E+01	0.00E+00	7.10E+01				
Co-58	<7.67E+01	0.00E+00	7.67E+01				
Fe-59	<1.71E+02	0.00E+00	1.71E+02				
Co-60	<5.43E+01	0.00E+00	5.43E+01				
Zn-65	<1.12E+02	0.00E+00	1.12E+02				
Zr-95	<1.22E+02	0.00E+00	1.22E+02				
Nb-95	<9.85E+01	0.00E+00	9.85E+01				
I-131	<1.62E+02	0.00E+00	1.62E+02				
Cs-134	<7.15E+01	0.00E+00	7.15E+01				
Cs-137	<1.41E+02	0.00E+00	1.41E+02				
Be-7	2.81E+02	4.22E+02	7.05E+02				
K-40	9.74E+03	1.81E+03	1.12E+03				
Co-57	<5.22E+01	0.00E+00	5.22E+01				
Mo-99	<1.31E+04	0.00E+00	1.31E+04				
Ag-110M	<5.59E+01	0.00E+00	5.59E+01				
Sb-122	<1.81E+03	0.00E+00	1.81E+03				
Sb-125	<1.82E+02	0.00E+00	1.82E+02				

Sample ID:	464825	Sample Dates:	11/21/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.72E+01	0.00E+00	6.72E+01				
Co-58	<6.98E+01	0.00E+00	6.98E+01				
Fe-59	<1.62E+02	0.00E+00	1.62E+02				
Co-60	<4.72E+01	0.00E+00	4.72E+01				
Zn-65	<1.24E+02	0.00E+00	1.24E+02				
Zr-95	<1.58E+02	0.00E+00	1.58E+02				
Nb-95	<9.19E+01	0.00E+00	9.19E+01				
I-131	<2.05E+02	0.00E+00	2.05E+02				
Cs-134	<8.94E+01	0.00E+00	8.94E+01				
Cs-137	1.13E+02	8.04E+01	1.21E+02				
Be-7	2.03E+02	5.40E+02	9.36E+02				
K-40	1.30E+04	2.19E+03	1.10E+03				
Co-57	<4.70E+01	0.00E+00	4.70E+01				
Mo-99	<2.42E+04	0.00E+00	2.42E+04				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 501 [INDICATOR - - @ 0 miles]

Sample ID:	464825	Sample Dates:	11/21/2017 - 11/21/2017	Nuclide	Activity	2 Sigma Error	MDA
Ag-110M	<5.48E+01	0.00E+00	5.48E+01				
Sb-122	<3.74E+03	0.00E+00	3.74E+03				
Sb-125	<1.05E+02	0.00E+00	1.05E+02				
Fe-55	<1.15E+05	0.00E+00	1.15E+05				
Ni-63	<4.83E+04	0.00E+00	4.83E+04				
Sr-89	<2.20E+02	0.00E+00	2.20E+02				
Sr-90	<1.39E+02	0.00E+00	1.39E+02				

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

Sample Point 400 [CONTROL - NE @ 0.6 miles]

Sample ID:	432881	Sample Dates:	1/3/2017 - 2/1/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<7.97E-01	0.00E+00	7.97E-01				
Co-58	<9.74E-01	0.00E+00	9.74E-01				
Fe-59	<2.15E+00	0.00E+00	2.15E+00				
Co-60	<7.91E-01	0.00E+00	7.91E-01				
Zn-65	<1.68E+00	0.00E+00	1.68E+00				
Zr-95	<1.69E+00	0.00E+00	1.69E+00				
Nb-95	<1.28E+00	0.00E+00	1.28E+00				
I-131	<4.27E+00	0.00E+00	4.27E+00				
Cs-134	<9.50E-01	0.00E+00	9.50E-01				
Cs-137	<8.90E-01	0.00E+00	8.90E-01				
BaLa-140	<2.11E+00	0.00E+00	2.11E+00				
H3SW	<7.09E+01	0.00E+00	1.87E+02				

Sample ID:	435077	Sample Dates:	2/1/2017 - 3/1/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.89E+00	0.00E+00	1.89E+00				
Co-58	<2.35E+00	0.00E+00	2.35E+00				
Fe-59	<5.74E+00	0.00E+00	5.74E+00				
Co-60	<1.89E+00	0.00E+00	1.89E+00				
Zn-65	<5.96E+00	0.00E+00	5.96E+00				
Zr-95	<4.44E+00	0.00E+00	4.44E+00				
Nb-95	<3.30E+00	0.00E+00	3.30E+00				
I-131	<1.14E+01	0.00E+00	1.14E+01				
Cs-134	<2.08E+00	0.00E+00	2.08E+00				
Cs-137	<2.54E+00	0.00E+00	2.54E+00				
BaLa-140	<5.28E+00	0.00E+00	5.28E+00				
H3SW	<3.88E+01	0.00E+00	1.88E+02				

Sample ID:	437549	Sample Dates:	3/1/2017 - 4/1/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<2.09E+00	0.00E+00	2.09E+00				
Co-58	<2.58E+00	0.00E+00	2.58E+00				
Fe-59	<5.56E+00	0.00E+00	5.56E+00				
Co-60	<2.40E+00	0.00E+00	2.40E+00				
Zn-65	<4.59E+00	0.00E+00	4.59E+00				
Zr-95	<4.16E+00	0.00E+00	4.16E+00				
Nb-95	<3.36E+00	0.00E+00	3.36E+00				
I-131	<1.07E+01	0.00E+00	1.07E+01				
Cs-134	<2.49E+00	0.00E+00	2.49E+00				
Cs-137	<1.87E+00	0.00E+00	1.87E+00				
BaLa-140	<6.57E+00	0.00E+00	6.57E+00				
H3SW	<2.6E+01	0.00E+00	1.93E+02				

Sample ID:	439978	Sample Dates:	4/1/2017 - 5/1/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<2.43E+00	0.00E+00	2.43E+00				
Co-58	<3.35E+00	0.00E+00	3.35E+00				
Fe-59	<6.99E+00	0.00E+00	6.99E+00				
Co-60	<2.41E+00	0.00E+00	2.41E+00				
Zn-65	<5.39E+00	0.00E+00	5.39E+00				
Zr-95	<5.31E+00	0.00E+00	5.31E+00				
Nb-95	<3.34E+00	0.00E+00	3.34E+00				
I-131	<1.13E+01	0.00E+00	1.13E+01				
Cs-134	<3.21E+00	0.00E+00	3.21E+00				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 400 [CONTROL - NE @ 0.6 miles]

Sample ID:	439978	Sample Dates:	4/1/2017 - 5/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<2.49E+00	0.00E+00	2.49E+00
				BaLa-140	<8.31E+00	0.00E+00	8.31E+00
				H3SW	<6.3E+01	0.00E+00	1.92E+02
Sample ID:	444234	Sample Dates:	5/1/2017 - 6/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.79E+00	0.00E+00	1.79E+00
				Co-58	<2.23E+00	0.00E+00	2.23E+00
				Fe-59	<4.87E+00	0.00E+00	4.87E+00
				Co-60	<1.83E+00	0.00E+00	1.83E+00
				Zn-65	<3.85E+00	0.00E+00	3.85E+00
				Zr-95	<3.81E+00	0.00E+00	3.81E+00
				Nb-95	<2.65E+00	0.00E+00	2.65E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<3.01E+00	0.00E+00	3.01E+00
				Cs-137	<1.96E+00	0.00E+00	1.96E+00
				BaLa-140	<6.23E+00	0.00E+00	6.23E+00
				H3SW	<8.8E+01	0.00E+00	2.02E+02
Sample ID:	447140	Sample Dates:	6/1/2017 - 7/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+00	0.00E+00	1.50E+00
				Co-58	<1.81E+00	0.00E+00	1.81E+00
				Fe-59	<3.91E+00	0.00E+00	3.91E+00
				Co-60	<1.66E+00	0.00E+00	1.66E+00
				Zn-65	<3.04E+00	0.00E+00	3.04E+00
				Zr-95	<3.43E+00	0.00E+00	3.43E+00
				Nb-95	<2.46E+00	0.00E+00	2.46E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<1.74E+00	0.00E+00	1.74E+00
				Cs-137	<1.58E+00	0.00E+00	1.58E+00
				BaLa-140	<5.59E+00	0.00E+00	5.59E+00
				H3SW	<3.5E+01	0.00E+00	1.98E+02
Sample ID:	449192	Sample Dates:	7/2/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.56E+00	0.00E+00	2.56E+00
				Co-58	<3.53E+00	0.00E+00	3.53E+00
				Fe-59	<7.06E+00	0.00E+00	7.06E+00
				Co-60	<2.66E+00	0.00E+00	2.66E+00
				Zn-65	<6.17E+00	0.00E+00	6.17E+00
				Zr-95	<4.81E+00	0.00E+00	4.81E+00
				Nb-95	<3.76E+00	0.00E+00	3.76E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<3.24E+00	0.00E+00	3.24E+00
				Cs-137	<2.76E+00	0.00E+00	2.76E+00
				BaLa-140	<4.27E+00	0.00E+00	4.27E+00
				H3SW	<6.1E+01	0.00E+00	1.84E+02
Sample ID:	451160	Sample Dates:	8/1/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.90E+00	0.00E+00	1.90E+00
				Co-58	<2.16E+00	0.00E+00	2.16E+00
				Fe-59	<5.57E+00	0.00E+00	5.57E+00
				Co-60	<2.15E+00	0.00E+00	2.15E+00
				Zn-65	<5.11E+00	0.00E+00	5.11E+00
				Zr-95	<4.33E+00	0.00E+00	4.33E+00
				Nb-95	<2.42E+00	0.00E+00	2.42E+00
				I-131	<1.05E+01	0.00E+00	1.05E+01
				Cs-134	<2.42E+00	0.00E+00	2.42E+00
				Cs-137	<2.02E+00	0.00E+00	2.02E+00
				BaLa-140	<6.46E+00	0.00E+00	6.46E+00
				H3SW	<1.2E+02	0.00E+00	2.01E+02
Sample ID:	453415	Sample Dates:	9/5/2017 - 10/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.07E+00	0.00E+00	3.07E+00
				Co-58	<2.60E+00	0.00E+00	2.60E+00
				Fe-59	<7.33E+00	0.00E+00	7.33E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 400 [CONTROL - NE @ 0.6 miles]

Sample ID:	453415	Sample Dates:	9/5/2017 - 10/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<3.10E+00	0.00E+00	3.10E+00
				Zn-65	<4.34E+00	0.00E+00	4.34E+00
				Zr-95	<6.03E+00	0.00E+00	6.03E+00
				Nb-95	<3.83E+00	0.00E+00	3.83E+00
				I-131	<1.04E+01	0.00E+00	1.04E+01
				Cs-134	<3.07E+00	0.00E+00	3.07E+00
				Cs-137	<2.78E+00	0.00E+00	2.78E+00
				BaLa-140	<5.13E+00	0.00E+00	5.13E+00
				H3SW	<7.6E+01	0.00E+00	1.99E+02
Sample ID:	456013	Sample Dates:	10/1/2017 - 11/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.85E+00	0.00E+00	1.85E+00
				Co-58	<2.15E+00	0.00E+00	2.15E+00
				Fe-59	<4.80E+00	0.00E+00	4.80E+00
				Co-60	<1.91E+00	0.00E+00	1.91E+00
				Zn-65	<3.89E+00	0.00E+00	3.89E+00
				Zr-95	<3.31E+00	0.00E+00	3.31E+00
				Nb-95	<2.74E+00	0.00E+00	2.74E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<2.05E+00	0.00E+00	2.05E+00
				Cs-137	<2.09E+00	0.00E+00	2.09E+00
				BaLa-140	<6.00E+00	0.00E+00	6.00E+00
				H3SW	<3.09E+01	0.00E+00	1.84E+02
Sample ID:	463063	Sample Dates:	11/2/2017 - 12/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.72E+00	0.00E+00	2.72E+00
				Co-58	<2.74E+00	0.00E+00	2.74E+00
				Fe-59	<7.95E+00	0.00E+00	7.95E+00
				Co-60	<2.40E+00	0.00E+00	2.40E+00
				Zn-65	<6.15E+00	0.00E+00	6.15E+00
				Zr-95	<5.51E+00	0.00E+00	5.51E+00
				Nb-95	<4.31E+00	0.00E+00	4.31E+00
				I-131	<1.14E+01	0.00E+00	1.14E+01
				Cs-134	<3.65E+00	0.00E+00	3.65E+00
				Cs-137	<2.39E+00	0.00E+00	2.39E+00
				BaLa-140	<6.84E+00	0.00E+00	6.84E+00
				H3SW	<7.3E+01	0.00E+00	1.93E+02
Sample ID:	464937	Sample Dates:	12/3/2017 - 1/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.98E+00	0.00E+00	1.98E+00
				Co-58	<3.19E+00	0.00E+00	3.19E+00
				Fe-59	<5.75E+00	0.00E+00	5.75E+00
				Co-60	<3.02E+00	0.00E+00	3.02E+00
				Zn-65	<6.75E+00	0.00E+00	6.75E+00
				Zr-95	<6.24E+00	0.00E+00	6.24E+00
				Nb-95	<3.77E+00	0.00E+00	3.77E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<4.09E+00	0.00E+00	4.09E+00
				Cs-137	<2.53E+00	0.00E+00	2.53E+00
				BaLa-140	<6.54E+00	0.00E+00	6.54E+00
				H3SW	<7.1E+01	0.00E+00	1.77E+02

Sample Point 401 [INDICATOR - SSW @ 4.9 miles]

Sample ID:	432882	Sample Dates:	1/3/2017 - 2/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.77E+00	0.00E+00	2.77E+00
				Co-58	<2.85E+00	0.00E+00	2.85E+00
				Fe-59	<5.56E+00	0.00E+00	5.56E+00
				Co-60	<3.10E+00	0.00E+00	3.10E+00
				Zn-65	<4.79E+00	0.00E+00	4.79E+00
				Zr-95	<4.45E+00	0.00E+00	4.45E+00
				Nb-95	<2.91E+00	0.00E+00	2.91E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<2.59E+00	0.00E+00	2.59E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 401 [INDICATOR - SSW @ 4.9 miles]

Sample ID:	432882	Sample Dates:	1/3/2017 - 2/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<2.16E+00	0.00E+00	2.16E+00
				BaLa-140	<6.27E+00	0.00E+00	6.27E+00
				H3SW	2.39E+02	1.15E+02	1.84E+02
Sample ID:	435078	Sample Dates:	2/1/2017 - 3/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.22E+00	0.00E+00	2.22E+00
				Co-58	<2.49E+00	0.00E+00	2.49E+00
				Fe-59	<5.51E+00	0.00E+00	5.51E+00
				Co-60	<2.37E+00	0.00E+00	2.37E+00
				Zn-65	<4.17E+00	0.00E+00	4.17E+00
				Zr-95	<4.78E+00	0.00E+00	4.78E+00
				Nb-95	<2.83E+00	0.00E+00	2.83E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<2.41E+00	0.00E+00	2.41E+00
				Cs-137	<2.42E+00	0.00E+00	2.42E+00
				BaLa-140	<6.18E+00	0.00E+00	6.18E+00
				H3SW	<1.88E+02	0.00E+00	1.90E+02
Sample ID:	437550	Sample Dates:	3/1/2017 - 4/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.04E+00	0.00E+00	2.04E+00
				Co-58	<2.43E+00	0.00E+00	2.43E+00
				Fe-59	<5.68E+00	0.00E+00	5.68E+00
				Co-60	<2.41E+00	0.00E+00	2.41E+00
				Zn-65	<5.74E+00	0.00E+00	5.74E+00
				Zr-95	<4.24E+00	0.00E+00	4.24E+00
				Nb-95	<3.42E+00	0.00E+00	3.42E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<2.56E+00	0.00E+00	2.56E+00
				Cs-137	<2.50E+00	0.00E+00	2.50E+00
				BaLa-140	<4.59E+00	0.00E+00	4.59E+00
				H3SW	4.33E+02	1.23E+02	1.91E+02
Sample ID:	439979	Sample Dates:	4/1/2017 - 5/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.02E+00	0.00E+00	3.02E+00
				Co-58	<3.40E+00	0.00E+00	3.40E+00
				Fe-59	<8.23E+00	0.00E+00	8.23E+00
				Co-60	<2.49E+00	0.00E+00	2.49E+00
				Zn-65	<7.14E+00	0.00E+00	7.14E+00
				Zr-95	<7.20E+00	0.00E+00	7.20E+00
				Nb-95	<4.51E+00	0.00E+00	4.51E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<3.19E+00	0.00E+00	3.19E+00
				Cs-137	<3.46E+00	0.00E+00	3.46E+00
				BaLa-140	<5.30E+00	0.00E+00	5.30E+00
				H3SW	<7.51E+01	0.00E+00	1.93E+02
Sample ID:	444235	Sample Dates:	5/1/2017 - 6/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.98E+00	0.00E+00	1.98E+00
				Co-58	<2.02E+00	0.00E+00	2.02E+00
				Fe-59	<4.45E+00	0.00E+00	4.45E+00
				Co-60	<1.72E+00	0.00E+00	1.72E+00
				Zn-65	<3.86E+00	0.00E+00	3.86E+00
				Zr-95	<4.15E+00	0.00E+00	4.15E+00
				Nb-95	<3.07E+00	0.00E+00	3.07E+00
				I-131	<1.09E+01	0.00E+00	1.09E+01
				Cs-134	<2.04E+00	0.00E+00	2.04E+00
				Cs-137	<2.21E+00	0.00E+00	2.21E+00
				BaLa-140	<7.35E+00	0.00E+00	7.35E+00
				H3SW	<9.8E+00	0.00E+00	2.01E+02
Sample ID:	447141	Sample Dates:	6/1/2017 - 7/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.41E+00	0.00E+00	1.41E+00
				Co-58	<1.50E+00	0.00E+00	1.50E+00
				Fe-59	<3.04E+00	0.00E+00	3.04E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 401 [INDICATOR - SSW @ 4.9 miles]

Sample ID:	447141	Sample Dates:	6/1/2017 - 7/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<1.17E+00	0.00E+00	1.17E+00
				Zn-65	<3.07E+00	0.00E+00	3.07E+00
				Zr-95	<3.66E+00	0.00E+00	3.66E+00
				Nb-95	<2.34E+00	0.00E+00	2.34E+00
				I-131	<1.05E+01	0.00E+00	1.05E+01
				Cs-134	<1.81E+00	0.00E+00	1.81E+00
				Cs-137	<1.64E+00	0.00E+00	1.64E+00
				BaLa-140	<4.77E+00	0.00E+00	4.77E+00
				H3SW	<5.7E+01	0.00E+00	1.98E+02
Sample ID:	449193	Sample Dates:	7/2/2017 - 8/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.74E+00	0.00E+00	1.74E+00
				Co-58	<2.19E+00	0.00E+00	2.19E+00
				Fe-59	<4.75E+00	0.00E+00	4.75E+00
				Co-60	<1.93E+00	0.00E+00	1.93E+00
				Zn-65	<3.97E+00	0.00E+00	3.97E+00
				Zr-95	<3.71E+00	0.00E+00	3.71E+00
				Nb-95	<2.55E+00	0.00E+00	2.55E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<1.69E+00	0.00E+00	1.69E+00
				Cs-137	<1.92E+00	0.00E+00	1.92E+00
				BaLa-140	<7.11E+00	0.00E+00	7.11E+00
				H3SW	<1.4E+01	0.00E+00	1.84E+02
Sample ID:	451161	Sample Dates:	8/1/2017 - 9/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.61E+00	0.00E+00	2.61E+00
				Co-58	<2.47E+00	0.00E+00	2.47E+00
				Fe-59	<6.26E+00	0.00E+00	6.26E+00
				Co-60	<2.24E+00	0.00E+00	2.24E+00
				Zn-65	<5.56E+00	0.00E+00	5.56E+00
				Zr-95	<4.04E+00	0.00E+00	4.04E+00
				Nb-95	<4.20E+00	0.00E+00	4.20E+00
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<2.56E+00	0.00E+00	2.56E+00
				Cs-137	<2.92E+00	0.00E+00	2.92E+00
				BaLa-140	<5.80E+00	0.00E+00	5.80E+00
				H3SW	<1.1E+02	0.00E+00	2.01E+02
Sample ID:	453416	Sample Dates:	9/5/2017 - 10/1/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.74E+00	0.00E+00	2.74E+00
				Co-58	<4.48E+00	0.00E+00	4.48E+00
				Fe-59	<8.19E+00	0.00E+00	8.19E+00
				Co-60	<4.13E+00	0.00E+00	4.13E+00
				Zn-65	<6.28E+00	0.00E+00	6.28E+00
				Zr-95	<7.72E+00	0.00E+00	7.72E+00
				Nb-95	<4.58E+00	0.00E+00	4.58E+00
				I-131	<1.14E+01	0.00E+00	1.14E+01
				Cs-134	<4.19E+00	0.00E+00	4.19E+00
				Cs-137	<4.01E+00	0.00E+00	4.01E+00
				BaLa-140	<6.80E+00	0.00E+00	6.80E+00
				H3SW	<5.9E+01	0.00E+00	1.98E+02
Sample ID:	456014	Sample Dates:	10/1/2017 - 11/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.87E+00	0.00E+00	1.87E+00
				Co-58	<2.45E+00	0.00E+00	2.45E+00
				Fe-59	<5.18E+00	0.00E+00	5.18E+00
				Co-60	<1.53E+00	0.00E+00	1.53E+00
				Zn-65	<2.99E+00	0.00E+00	2.99E+00
				Zr-95	<4.13E+00	0.00E+00	4.13E+00
				Nb-95	<2.92E+00	0.00E+00	2.92E+00
				I-131	<1.12E+01	0.00E+00	1.12E+01
				Cs-134	<2.19E+00	0.00E+00	2.19E+00
				Cs-137	<1.72E+00	0.00E+00	1.72E+00
				BaLa-140	<6.69E+00	0.00E+00	6.69E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 401 [INDICATOR - SSW @ 4.9 miles]

Sample ID:	456014	Sample Dates:	10/1/2017 - 11/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.69E+02	0.00E+00	1.84E+02
Sample ID:	463064	Sample Dates:	11/2/2017 - 12/3/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.86E+00	0.00E+00	1.86E+00
				Co-58	<2.17E+00	0.00E+00	2.17E+00
				Fe-59	<4.40E+00	0.00E+00	4.40E+00
				Co-60	<2.03E+00	0.00E+00	2.03E+00
				Zn-65	<3.85E+00	0.00E+00	3.85E+00
				Zr-95	<4.19E+00	0.00E+00	4.19E+00
				Nb-95	<3.10E+00	0.00E+00	3.10E+00
				I-131	<1.13E+01	0.00E+00	1.13E+01
				Cs-134	<2.25E+00	0.00E+00	2.25E+00
				Cs-137	<2.37E+00	0.00E+00	2.37E+00
				BaLa-140	<4.70E+00	0.00E+00	4.70E+00
				H3SW	<6.35E+01	0.00E+00	1.87E+02
Sample ID:	464938	Sample Dates:	12/3/2017 - 1/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.61E+00	0.00E+00	2.61E+00
				Co-58	<3.54E+00	0.00E+00	3.54E+00
				Fe-59	<9.53E+00	0.00E+00	9.53E+00
				Co-60	<3.65E+00	0.00E+00	3.65E+00
				Zn-65	<5.82E+00	0.00E+00	5.82E+00
				Zr-95	<6.09E+00	0.00E+00	6.09E+00
				Nb-95	<4.05E+00	0.00E+00	4.05E+00
				I-131	<1.15E+01	0.00E+00	1.15E+01
				Cs-134	<3.59E+00	0.00E+00	3.59E+00
				Cs-137	<3.22E+00	0.00E+00	3.22E+00
				BaLa-140	<8.34E+00	0.00E+00	8.34E+00
				H3SW	<8.51E+01	0.00E+00	1.77E+02

Sample Point 494 [INDICATOR - - @ 0 miles]

Sample ID:	432850	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+02	0.00E+00	2.56E+02
Sample ID:	433252	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.1E+03	0.00E+00	3.10E+02
Sample ID:	433669	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.90E+02	0.00E+00	2.50E+02
Sample ID:	434404	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.70E+01	0.00E+00	2.41E+02
Sample ID:	435048	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.0E+02	0.00E+00	2.52E+02
Sample ID:	435758	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	3.45E+03	1.94E+02	2.31E+02
Sample ID:	436208	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.17E+02	0.00E+00	2.47E+02
Sample ID:	436659	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.03E+01	0.00E+00	2.46E+02
Sample ID:	437520	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.4E+01	0.00E+00	2.43E+02
Sample ID:	438250	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.1E+00	0.00E+00	2.31E+02
Sample ID:	438753	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.4E+03	0.00E+00	5.66E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 494 [INDICATOR - - @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
439096	3/21/2017 - 3/21/2017	H3SW	<1.1E+02	0.00E+00	2.49E+02
439949	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.2E+02	0.00E+00	2.53E+02
440521	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.48E+01	0.00E+00	2.29E+02
441361	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<8.56E+00	0.00E+00	2.25E+02
441772	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.00E+02	1.43E+02	2.34E+02
442219	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.08E+02	0.00E+00	2.34E+02
442810	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.9E+01	0.00E+00	2.41E+02
443248	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.1E+01	0.00E+00	2.41E+02
443806	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.7E+01	0.00E+00	2.32E+02
444200	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.6E+02	0.00E+00	2.45E+02
445270	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.04E+01	0.00E+00	2.28E+02
446269	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.20E+01	0.00E+00	2.31E+02
446773	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.3E+02	0.00E+00	2.43E+02
447099	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.47E+01	0.00E+00	2.42E+02
447752	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.95E+01	0.00E+00	2.26E+02
448216	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.4E+01	0.00E+00	2.28E+02
448842	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.96E+02	0.00E+00	2.30E+02
449155	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.96E+02	0.00E+00	2.26E+02
449892	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	2.29E+02	1.38E+02	2.29E+02
450561	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.94E+01	0.00E+00	1.94E+01
		Co-58	<1.62E+01	0.00E+00	1.62E+01
		Fe-59	<2.42E+01	0.00E+00	2.42E+01
		Co-60	<1.61E+01	0.00E+00	1.61E+01
		Zn-65	<2.17E+01	0.00E+00	2.17E+01
		Zr-95	<1.80E+01	0.00E+00	1.80E+01
		Nb-95	<1.57E+01	0.00E+00	1.57E+01
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<1.68E+01	0.00E+00	1.68E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 494 [INDICATOR - - @ 0 miles]

Sample ID:	450561	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				La-140	<3.54E+01	0.00E+00	3.54E+01
				Ba-140	<3.81E+01	0.00E+00	3.81E+01
				Total-Gam	0.00E+00		
				H3SW	<1.72E+01	0.00E+00	2.61E+02
Sample ID:	451601	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.07E+01	0.00E+00	1.07E+01
				Co-58	<1.09E+01	0.00E+00	1.09E+01
				Fe-59	<2.53E+01	0.00E+00	2.53E+01
				Co-60	<1.40E+01	0.00E+00	1.40E+01
				Zn-65	<3.09E+01	0.00E+00	3.09E+01
				Zr-95	<1.86E+01	0.00E+00	1.86E+01
				Nb-95	<1.89E+01	0.00E+00	1.89E+01
				I-131	<1.78E+01	0.00E+00	1.78E+01
				Cs-134	<1.38E+01	0.00E+00	1.38E+01
				Cs-137	<2.06E+01	0.00E+00	2.06E+01
				La-140	<8.65E+01	0.00E+00	8.65E+01
				Ba-140	<5.49E+01	0.00E+00	5.49E+01
				Total-Gam	0.00E+00		
				H3SW	<2.02E+02	0.00E+00	2.40E+02
Sample ID:	461265	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.81E+00	0.00E+00	5.81E+00
				Co-58	<3.94E+00	0.00E+00	3.94E+00
				Fe-59	<1.00E+01	0.00E+00	1.00E+01
				Co-60	<7.56E+00	0.00E+00	7.56E+00
				Zn-65	<1.28E+01	0.00E+00	1.28E+01
				Zr-95	<9.45E+00	0.00E+00	9.45E+00
				Nb-95	<4.91E+00	0.00E+00	4.91E+00
				I-131	<3.80E+00	0.00E+00	3.80E+00
				Cs-134	<5.72E+00	0.00E+00	5.72E+00
				Cs-137	<5.52E+00	0.00E+00	5.52E+00
				BaLa-140	<8.78E+00	0.00E+00	8.78E+00
				Total-Gam	0.00E+00		
				H3SW	<2.2E+01	0.00E+00	2.06E+02
Sample ID:	461913	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.37E+00	0.00E+00	4.37E+00
				Co-58	<5.07E+00	0.00E+00	5.07E+00
				Fe-59	<1.10E+01	0.00E+00	1.10E+01
				Co-60	<6.37E+00	0.00E+00	6.37E+00
				Zn-65	<8.46E+00	0.00E+00	8.46E+00
				Zr-95	<8.81E+00	0.00E+00	8.81E+00
				Nb-95	<5.64E+00	0.00E+00	5.64E+00
				I-131	<4.85E+00	0.00E+00	4.85E+00
				Cs-134	<5.00E+00	0.00E+00	5.00E+00
				Cs-137	<6.16E+00	0.00E+00	6.16E+00
				BaLa-140	<6.98E+00	0.00E+00	6.98E+00
				Total-Gam	0.00E+00		
				H3SW	<5.1E+01	0.00E+00	1.78E+02
Sample ID:	464230	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.21E+00	0.00E+00	6.21E+00
				Co-58	<6.43E+00	0.00E+00	6.43E+00
				Fe-59	<1.19E+01	0.00E+00	1.19E+01
				Co-60	<7.30E+00	0.00E+00	7.30E+00
				Zn-65	<1.24E+01	0.00E+00	1.24E+01
				Zr-95	<9.30E+00	0.00E+00	9.30E+00
				Nb-95	<6.39E+00	0.00E+00	6.39E+00
				I-131	<8.14E+00	0.00E+00	8.14E+00
				Cs-134	<6.75E+00	0.00E+00	6.75E+00
				Cs-137	<5.17E+00	0.00E+00	5.17E+00
				BaLa-140	<7.48E+00	0.00E+00	7.48E+00
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 494 [INDICATOR - - @ 0 miles]

Sample ID:	464230	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-3.3E+01	0.00E+00	1.88E+02

Sample Point 495 [INDICATOR - - @ 0 miles]

Sample ID:	432851	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.85E+02	0.00E+00	2.41E+02

Sample ID:	433253	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.56E+01	0.00E+00	2.50E+02

Sample ID:	433670	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.31E+02	0.00E+00	2.33E+02

Sample ID:	434405	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.82E+02	0.00E+00	2.40E+02

Sample ID:	434396	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.88E+00	0.00E+00	7.88E+00
				Co-58	<7.72E+00	0.00E+00	7.72E+00
				Fe-59	<1.71E+01	0.00E+00	1.71E+01
				Co-60	<9.44E+00	0.00E+00	9.44E+00
				Zn-65	<1.76E+01	0.00E+00	1.76E+01
				Zr-95	<1.56E+01	0.00E+00	1.56E+01
				Nb-95	<9.66E+00	0.00E+00	9.66E+00
				I-131	<2.54E+01	0.00E+00	2.54E+01
				Cs-134	<7.80E+00	0.00E+00	7.80E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<5.76E+03	0.00E+00	5.76E+03
				Ba-140	<5.43E+01	0.00E+00	5.43E+01
				Total-Gam	0.00E+00		

Sample ID:	435049	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.4E+02	0.00E+00	2.62E+02

Sample ID:	435759	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.18E+01	0.00E+00	2.41E+02

Sample ID:	436209	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.65E+02	0.00E+00	2.28E+02

Sample ID:	436660	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.55E+02

Sample ID:	436651	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.91E+00	0.00E+00	6.91E+00
				Co-58	<9.38E+00	0.00E+00	9.38E+00
				Fe-59	<1.75E+01	0.00E+00	1.75E+01
				Co-60	<7.62E+00	0.00E+00	7.62E+00
				Zn-65	<1.65E+01	0.00E+00	1.65E+01
				Zr-95	<1.47E+01	0.00E+00	1.47E+01
				Nb-95	<9.32E+00	0.00E+00	9.32E+00
				I-131	<2.13E+01	0.00E+00	2.13E+01
				Cs-134	<8.72E+00	0.00E+00	8.72E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<5.63E+02	0.00E+00	5.63E+02
				Ba-140	<5.35E+01	0.00E+00	5.35E+01
				Total-Gam	0.00E+00		

Sample ID:	437521	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+01	0.00E+00	2.42E+02

Sample ID:	438251	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-7.9E+01	0.00E+00	2.37E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 495 [INDICATOR - - @ 0 miles]

Sample ID:	438754	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.3E+02	0.00E+00	2.40E+02
Sample ID:	439097	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.46E+02
Sample ID:	439453	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.81E+00	0.00E+00	7.81E+00
				Co-58	<9.75E+00	0.00E+00	9.75E+00
				Fe-59	<1.78E+01	0.00E+00	1.78E+01
				Co-60	<5.96E+00	0.00E+00	5.96E+00
				Zn-65	<1.66E+01	0.00E+00	1.66E+01
				Zr-95	<1.39E+01	0.00E+00	1.39E+01
				Nb-95	<1.12E+01	0.00E+00	1.12E+01
				I-131	<2.01E+01	0.00E+00	2.01E+01
				Cs-134	<6.68E+00	0.00E+00	6.68E+00
				Cs-137	<8.41E+00	0.00E+00	8.41E+00
				La-140	<1.08E+03	0.00E+00	1.08E+03
				Ba-140	<3.96E+01	0.00E+00	3.96E+01
				Total-Gam	0.00E+00		
Sample ID:	439950	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.8E+01	0.00E+00	2.53E+02
Sample ID:	440522	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.2E+01	0.00E+00	2.34E+02
Sample ID:	441362	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.21E+01	0.00E+00	2.24E+02
Sample ID:	441773	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.51E+02	0.00E+00	2.39E+02
Sample ID:	442206	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.34E+00	0.00E+00	8.34E+00
				Co-58	<9.14E+00	0.00E+00	9.14E+00
				Fe-59	<1.76E+01	0.00E+00	1.76E+01
				Co-60	<8.08E+00	0.00E+00	8.08E+00
				Zn-65	<1.81E+01	0.00E+00	1.81E+01
				Zr-95	<1.62E+01	0.00E+00	1.62E+01
				Nb-95	<9.94E+00	0.00E+00	9.94E+00
				I-131	<2.02E+01	0.00E+00	2.02E+01
				Cs-134	<8.57E+00	0.00E+00	8.57E+00
				Cs-137	<6.27E+00	0.00E+00	6.27E+00
				La-140	<7.00E+02	0.00E+00	7.00E+02
				Ba-140	<4.95E+01	0.00E+00	4.95E+01
				Total-Gam	0.00E+00		
Sample ID:	442220	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.49E+02	0.00E+00	2.53E+02
Sample ID:	442811	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.16E+01	0.00E+00	2.43E+02
Sample ID:	443249	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.01E+02	0.00E+00	2.62E+02
Sample ID:	443807	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.68E+01	0.00E+00	2.43E+02
Sample ID:	444201	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.0E+02	0.00E+00	2.42E+02
Sample ID:	444192	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.98E+00	0.00E+00	9.98E+00
				Co-58	<9.73E+00	0.00E+00	9.73E+00
				Fe-59	<1.95E+01	0.00E+00	1.95E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 495 [INDICATOR - - @ 0 miles]

Sample ID:	444192	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<8.46E+00	0.00E+00	8.46E+00
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<1.12E+01	0.00E+00	1.12E+01
				Nb-95	<1.09E+01	0.00E+00	1.09E+01
				I-131	<4.03E+01	0.00E+00	4.03E+01
				Cs-134	<8.09E+00	0.00E+00	8.09E+00
				Cs-137	<7.42E+00	0.00E+00	7.42E+00
				La-140	<2.50E+04	0.00E+00	2.50E+04
				Ba-140	<7.55E+01	0.00E+00	7.55E+01
				Total-Gam	0.00E+00		
Sample ID:	445271	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.6E+01	0.00E+00	2.35E+02
Sample ID:	446270	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.4E+01	0.00E+00	2.48E+02
Sample ID:	446774	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.8E+01	0.00E+00	2.48E+02
Sample ID:	447100	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.24E+02	0.00E+00	2.26E+02
Sample ID:	447417	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.81E+00	0.00E+00	7.81E+00
				Co-58	<7.42E+00	0.00E+00	7.42E+00
				Fe-59	<1.32E+01	0.00E+00	1.32E+01
				Co-60	<5.16E+00	0.00E+00	5.16E+00
				Zn-65	<1.66E+01	0.00E+00	1.66E+01
				Zr-95	<1.28E+01	0.00E+00	1.28E+01
				Nb-95	<9.24E+00	0.00E+00	9.24E+00
				I-131	<2.11E+01	0.00E+00	2.11E+01
				Cs-134	<7.25E+00	0.00E+00	7.25E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				La-140	<7.27E+02	0.00E+00	7.27E+02
				Ba-140	<3.52E+01	0.00E+00	3.52E+01
				Total-Gam	0.00E+00		
Sample ID:	447753	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.9E+01	0.00E+00	2.33E+02
Sample ID:	448217	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.60E+01	0.00E+00	2.23E+02
Sample ID:	448843	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.40E+02	0.00E+00	2.21E+02
Sample ID:	449156	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.93E+02	0.00E+00	2.27E+02
Sample ID:	449882	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.54E+00	0.00E+00	7.54E+00
				Co-58	<6.75E+00	0.00E+00	6.75E+00
				Fe-59	<1.63E+01	0.00E+00	1.63E+01
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.58E+01	0.00E+00	1.58E+01
				Zr-95	<1.40E+01	0.00E+00	1.40E+01
				Nb-95	<1.08E+01	0.00E+00	1.08E+01
				I-131	<2.36E+01	0.00E+00	2.36E+01
				Cs-134	<8.42E+00	0.00E+00	8.42E+00
				Cs-137	<8.87E+00	0.00E+00	8.87E+00
				La-140	<1.32E+03	0.00E+00	1.32E+03
				Ba-140	<6.01E+01	0.00E+00	6.01E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 495 [INDICATOR - - @ 0 miles]

Sample ID:	449893	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.87E+02	0.00E+00	2.29E+02
Sample ID:	450562	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.34E+00	0.00E+00	7.34E+00
				Co-58	<6.94E+00	0.00E+00	6.94E+00
				Fe-59	<1.50E+01	0.00E+00	1.50E+01
				Co-60	<4.20E+00	0.00E+00	4.20E+00
				Zn-65	<1.76E+01	0.00E+00	1.76E+01
				Zr-95	<1.48E+01	0.00E+00	1.48E+01
				Nb-95	<7.64E+00	0.00E+00	7.64E+00
				I-131	<7.62E+00	0.00E+00	7.62E+00
				Cs-134	<4.81E+00	0.00E+00	4.81E+00
				Cs-137	<8.17E+00	0.00E+00	8.17E+00
				La-140	<8.78E+00	0.00E+00	8.78E+00
				Ba-140	<2.57E+01	0.00E+00	2.57E+01
				Total-Gam	0.00E+00		
				H3SW	<5.18E+01	0.00E+00	2.33E+02
Sample ID:	451602	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.43E+00	0.00E+00	5.43E+00
				Co-58	<7.20E+00	0.00E+00	7.20E+00
				Fe-59	<1.89E+01	0.00E+00	1.89E+01
				Co-60	<7.60E+00	0.00E+00	7.60E+00
				Zn-65	<1.78E+01	0.00E+00	1.78E+01
				Zr-95	<1.42E+01	0.00E+00	1.42E+01
				Nb-95	<9.20E+00	0.00E+00	9.20E+00
				I-131	<9.58E+00	0.00E+00	9.58E+00
				Cs-134	<6.64E+00	0.00E+00	6.63E+00
				Cs-137	<7.41E+00	0.00E+00	7.41E+00
				La-140	<4.18E+01	0.00E+00	4.18E+01
				Ba-140	<2.73E+01	0.00E+00	2.73E+01
				Total-Gam	0.00E+00		
				H3SW	<1.58E+02	0.00E+00	2.35E+02
Sample ID:	461266	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.67E+00	0.00E+00	4.67E+00
				Co-58	<5.11E+00	0.00E+00	5.11E+00
				Fe-59	<1.25E+01	0.00E+00	1.25E+01
				Co-60	<5.06E+00	0.00E+00	5.06E+00
				Zn-65	<1.29E+01	0.00E+00	1.29E+01
				Zr-95	<8.87E+00	0.00E+00	8.87E+00
				Nb-95	<5.17E+00	0.00E+00	5.17E+00
				I-131	<7.00E+00	0.00E+00	7.00E+00
				Cs-134	<5.25E+00	0.00E+00	5.25E+00
				Cs-137	<5.97E+00	0.00E+00	5.97E+00
				BaLa-140	<6.68E+00	0.00E+00	6.68E+00
				Total-Gam	0.00E+00		
				H3SW	<1.7E+02	0.00E+00	2.06E+02
Sample ID:	461914	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.84E+00	0.00E+00	5.84E+00
				Co-58	<4.83E+00	0.00E+00	4.83E+00
				Fe-59	<1.03E+01	0.00E+00	1.03E+01
				Co-60	<5.82E+00	0.00E+00	5.82E+00
				Zn-65	<9.51E+00	0.00E+00	9.51E+00
				Zr-95	<7.11E+00	0.00E+00	7.11E+00
				Nb-95	<5.50E+00	0.00E+00	5.50E+00
				I-131	<5.95E+00	0.00E+00	5.95E+00
				Cs-134	<4.61E+00	0.00E+00	4.61E+00
				Cs-137	<4.52E+00	0.00E+00	4.52E+00
				BaLa-140	<6.61E+00	0.00E+00	6.61E+00
				Total-Gam	0.00E+00		
				H3SW	<2.82E+01	0.00E+00	1.79E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	464231	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.77E+00	0.00E+00	5.77E+00
				Co-58	<5.38E+00	0.00E+00	5.38E+00
				Fe-59	<1.14E+01	0.00E+00	1.14E+01
				Co-60	<7.02E+00	0.00E+00	7.02E+00
				Zn-65	<1.08E+01	0.00E+00	1.08E+01
				Zr-95	<1.16E+01	0.00E+00	1.16E+01
				Nb-95	<5.50E+00	0.00E+00	5.50E+00
				I-131	<8.94E+00	0.00E+00	8.94E+00
				Cs-134	<5.35E+00	0.00E+00	5.35E+00
				Cs-137	<6.10E+00	0.00E+00	6.10E+00
				BaLa-140	<6.43E+00	0.00E+00	6.43E+00
				Total-Gam	0.00E+00		
				H3SW	<8.7E+01	0.00E+00	1.88E+02

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

Sample ID:	432852	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.1E+01	0.00E+00	2.52E+02
Sample ID:	433254	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.54E+00	0.00E+00	2.51E+02
Sample ID:	433671	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.22E+02	0.00E+00	2.32E+02
Sample ID:	434406	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.58E+01	0.00E+00	2.40E+02
Sample ID:	434397	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.69E+00	0.00E+00	8.69E+00
				Co-58	<7.72E+00	0.00E+00	7.73E+00
				Fe-59	<1.72E+01	0.00E+00	1.72E+01
				Co-60	<8.09E+00	0.00E+00	8.09E+00
				Zn-65	<1.68E+01	0.00E+00	1.68E+01
				Zr-95	<1.47E+01	0.00E+00	1.47E+01
				Nb-95	<9.33E+00	0.00E+00	9.33E+00
				I-131	<3.04E+01	0.00E+00	3.04E+01
				Cs-134	<7.45E+00	0.00E+00	7.45E+00
				Cs-137	<8.64E+00	0.00E+00	8.64E+00
				La-140	<5.09E+03	0.00E+00	5.09E+03
				Ba-140	<5.62E+01	0.00E+00	5.62E+01
				Total-Gam	0.00E+00		
Sample ID:	435050	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.1E+02	0.00E+00	2.62E+02
Sample ID:	435760	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.58E+02	0.00E+00	2.41E+02
Sample ID:	436210	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.04E+01	0.00E+00	2.27E+02
Sample ID:	436661	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.4E+01	0.00E+00	2.54E+02
Sample ID:	436652	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.33E+00	0.00E+00	9.33E+00
				Co-58	<7.04E+00	0.00E+00	7.04E+00
				Fe-59	<1.95E+01	0.00E+00	1.95E+01
				Co-60	<4.22E+00	0.00E+00	4.22E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<9.38E+00	0.00E+00	9.38E+00
				Nb-95	<1.06E+01	0.00E+00	1.06E+01
				I-131	<2.10E+01	0.00E+00	2.10E+01
				Cs-134	<7.60E+00	0.00E+00	7.60E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 496 [INDICATOR - - @ 0 miles]

Sample ID:	436652	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<7.15E+00	0.00E+00	7.15E+00
				La-140	<4.83E+02	0.00E+00	4.83E+02
				Ba-140	<5.37E+01	0.00E+00	5.37E+01
				Total-Gam	0.00E+00		
Sample ID:	437522	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.6E+01	0.00E+00	2.42E+02
Sample ID:	438252	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.66E+01	0.00E+00	2.35E+02
Sample ID:	438755	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+01	0.00E+00	2.41E+02
Sample ID:	439098	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+02	0.00E+00	2.49E+02
Sample ID:	439454	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.08E+00	0.00E+00	9.08E+00
				Co-58	<7.02E+00	0.00E+00	7.02E+00
				Fe-59	<1.76E+01	0.00E+00	1.76E+01
				Co-60	<8.52E+00	0.00E+00	8.52E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<1.48E+01	0.00E+00	1.48E+01
				Nb-95	<1.10E+01	0.00E+00	1.10E+01
				I-131	<1.90E+01	0.00E+00	1.90E+01
				Cs-134	<6.27E+00	0.00E+00	6.27E+00
				Cs-137	<7.15E+00	0.00E+00	7.15E+00
				La-140	<6.54E+02	0.00E+00	6.54E+02
				Ba-140	<5.64E+01	0.00E+00	5.64E+01
				Total-Gam	0.00E+00		
Sample ID:	439951	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.3E+02	0.00E+00	2.54E+02
Sample ID:	440523	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.7E+01	0.00E+00	2.34E+02
Sample ID:	441363	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.76E+01	0.00E+00	2.24E+02
Sample ID:	441774	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.44E+01	0.00E+00	2.39E+02
Sample ID:	442207	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.53E+00	0.00E+00	7.53E+00
				Co-58	<8.06E+00	0.00E+00	8.07E+00
				Fe-59	<1.32E+01	0.00E+00	1.32E+01
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.57E+01	0.00E+00	1.57E+01
				Zr-95	<1.49E+01	0.00E+00	1.49E+01
				Nb-95	<1.22E+01	0.00E+00	1.22E+01
				I-131	<2.13E+01	0.00E+00	2.13E+01
				Cs-134	<7.94E+00	0.00E+00	7.94E+00
				Cs-137	<7.42E+00	0.00E+00	7.42E+00
				La-140	<8.25E+02	0.00E+00	8.25E+02
				Ba-140	<4.62E+01	0.00E+00	4.62E+01
				Total-Gam	0.00E+00		
Sample ID:	442221	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.00E+01	0.00E+00	2.54E+02
Sample ID:	442812	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.79E+02	0.00E+00	2.46E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 496 [INDICATOR - - @ 0 miles]

Sample ID:	443250	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.46E+01	0.00E+00	2.64E+02
Sample ID:	443808	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.72E+01	0.00E+00	2.43E+02
Sample ID:	444202	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-1.1E+02	0.00E+00	2.42E+02
Sample ID:	444193	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.40E+00	0.00E+00	7.40E+00
				Co-58	<8.57E+00	0.00E+00	8.58E+00
				Fe-59	<1.63E+01	0.00E+00	1.63E+01
				Co-60	<7.92E+00	0.00E+00	7.92E+00
				Zn-65	<1.53E+01	0.00E+00	1.53E+01
				Zr-95	<1.92E+01	0.00E+00	1.92E+01
				Nb-95	<1.28E+01	0.00E+00	1.28E+01
				I-131	<4.84E+01	0.00E+00	4.84E+01
				Cs-134	<5.73E+00	0.00E+00	5.73E+00
				Cs-137	<9.09E+00	0.00E+00	9.09E+00
				La-140	<8.97E+04	0.00E+00	8.97E+04
				Ba-140	<8.09E+01	0.00E+00	8.09E+01
				Total-Gam	0.00E+00		
Sample ID:	445272	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+01	0.00E+00	2.30E+02
Sample ID:	446271	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.3E+01	0.00E+00	2.48E+02
Sample ID:	446775	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.1E+01	0.00E+00	2.43E+02
Sample ID:	447101	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.36E+01	0.00E+00	2.26E+02
Sample ID:	447418	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.67E+00	0.00E+00	4.67E+00
				Co-58	<5.93E+00	0.00E+00	5.93E+00
				Fe-59	<1.95E+01	0.00E+00	1.95E+01
				Co-60	<8.52E+00	0.00E+00	8.52E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<1.81E+01	0.00E+00	1.81E+01
				Nb-95	<1.04E+01	0.00E+00	1.04E+01
				I-131	<1.92E+01	0.00E+00	1.92E+01
				Cs-134	<8.02E+00	0.00E+00	8.02E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<1.26E+03	0.00E+00	1.26E+03
				Ba-140	<3.71E+01	0.00E+00	3.71E+01
				Total-Gam	0.00E+00		
Sample ID:	447754	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.2E+01	0.00E+00	2.33E+02
Sample ID:	448218	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.10E+02	0.00E+00	2.22E+02
Sample ID:	448844	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.89E+01	0.00E+00	2.20E+02
Sample ID:	449157	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.09E+02	0.00E+00	2.40E+02
Sample ID:	449883	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.94E+00	0.00E+00	6.94E+00
				Co-58	<8.72E+00	0.00E+00	8.72E+00
				Fe-59	<1.96E+01	0.00E+00	1.96E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	449883	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-60	<9.33E+00	0.00E+00	9.33E+00
				Zn-65	<1.97E+01	0.00E+00	1.97E+01
				Zr-95	<1.69E+01	0.00E+00	1.69E+01
				Nb-95	<1.18E+01	0.00E+00	1.18E+01
				I-131	<2.32E+01	0.00E+00	2.32E+01
				Cs-134	<7.60E+00	0.00E+00	7.60E+00
				Cs-137	<8.41E+00	0.00E+00	8.41E+00
				La-140	<1.11E+03	0.00E+00	1.11E+03
				Ba-140	<5.28E+01	0.00E+00	5.28E+01
				Total-Gam	0.00E+00		
Sample ID:	449894	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.15E+02	0.00E+00	2.22E+02
Sample ID:	450563	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.15E+00	0.00E+00	8.15E+00
				Co-58	<8.97E+00	0.00E+00	8.97E+00
				Fe-59	<1.11E+01	0.00E+00	1.11E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<1.24E+01	0.00E+00	1.24E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<6.89E+00	0.00E+00	6.89E+00
				I-131	<7.67E+00	0.00E+00	7.67E+00
				Cs-134	<7.60E+00	0.00E+00	7.60E+00
				Cs-137	<9.08E+00	0.00E+00	9.08E+00
				La-140	<9.90E+00	0.00E+00	9.90E+00
				Ba-140	<2.77E+01	0.00E+00	2.77E+01
				Total-Gam	0.00E+00		
				H3SW	<3.2E+01	0.00E+00	2.32E+02
Sample ID:	451603	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.47E+00	0.00E+00	8.47E+00
				Co-58	<8.56E+00	0.00E+00	8.57E+00
				Fe-59	<1.51E+01	0.00E+00	1.51E+01
				Co-60	<9.86E+00	0.00E+00	9.86E+00
				Zn-65	<1.92E+01	0.00E+00	1.92E+01
				Zr-95	<1.18E+01	0.00E+00	1.18E+01
				Nb-95	<1.07E+01	0.00E+00	1.07E+01
				I-131	<1.12E+01	0.00E+00	1.12E+01
				Cs-134	<8.51E+00	0.00E+00	8.51E+00
				Cs-137	<7.41E+00	0.00E+00	7.41E+00
				La-140	<4.05E+01	0.00E+00	4.05E+01
				Ba-140	<2.98E+01	0.00E+00	2.98E+01
				Total-Gam	0.00E+00		
				H3SW	<2.05E+01	0.00E+00	2.36E+02
Sample ID:	461267	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.34E+00	0.00E+00	6.34E+00
				Co-58	<5.23E+00	0.00E+00	5.23E+00
				Fe-59	<9.17E+00	0.00E+00	9.17E+00
				Co-60	<5.42E+00	0.00E+00	5.42E+00
				Zn-65	<1.02E+01	0.00E+00	1.02E+01
				Zr-95	<9.43E+00	0.00E+00	9.43E+00
				Nb-95	<5.97E+00	0.00E+00	5.97E+00
				I-131	<6.32E+00	0.00E+00	6.32E+00
				Cs-134	<6.13E+00	0.00E+00	6.13E+00
				Cs-137	<6.04E+00	0.00E+00	6.04E+00
				BaLa-140	<6.52E+00	0.00E+00	6.52E+00
				Total-Gam	0.00E+00		
				H3SW	<1.0E+02	0.00E+00	2.05E+02
Sample ID:	461915	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.23E+00	0.00E+00	5.23E+00
				Co-58	<4.50E+00	0.00E+00	4.50E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	461915	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Fe-59	<8.86E+00	0.00E+00	8.86E+00
				Co-60	<6.44E+00	0.00E+00	6.44E+00
				Zn-65	<1.42E+01	0.00E+00	1.42E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<6.04E+00	0.00E+00	6.04E+00
				I-131	<7.04E+00	0.00E+00	7.04E+00
				Cs-134	<7.39E+00	0.00E+00	7.39E+00
				Cs-137	<5.33E+00	0.00E+00	5.33E+00
				BaLa-140	<6.14E+00	0.00E+00	6.14E+00
				Total-Gam	0.00E+00		
				H3SW	<5.6E+01	0.00E+00	1.78E+02

Sample ID:	464232	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.53E+00	0.00E+00	5.53E+00
				Co-58	<5.72E+00	0.00E+00	5.72E+00
				Fe-59	<9.20E+00	0.00E+00	9.20E+00
				Co-60	<5.42E+00	0.00E+00	5.42E+00
				Zn-65	<1.10E+01	0.00E+00	1.10E+01
				Zr-95	<8.85E+00	0.00E+00	8.85E+00
				Nb-95	<4.37E+00	0.00E+00	4.37E+00
				I-131	<7.75E+00	0.00E+00	7.75E+00
				Cs-134	<5.95E+00	0.00E+00	5.95E+00
				Cs-137	<4.52E+00	0.00E+00	4.52E+00
				BaLa-140	<9.33E+00	0.00E+00	9.33E+00
				Total-Gam	0.00E+00		
				H3SW	<5.6E+01	0.00E+00	1.88E+02

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

Sample ID:	432853	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.68E+01	0.00E+00	2.51E+02
Sample ID:	433255	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.49E+01	0.00E+00	2.51E+02
Sample ID:	433672	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.31E+02	0.00E+00	2.33E+02
Sample ID:	434407	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.91E+01	0.00E+00	2.39E+02
Sample ID:	434398	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.79E+00	0.00E+00	9.79E+00
				Co-58	<8.56E+00	0.00E+00	8.56E+00
				Fe-59	<1.67E+01	0.00E+00	1.67E+01
				Co-60	<7.33E+00	0.00E+00	7.33E+00
				Zn-65	<1.71E+01	0.00E+00	1.71E+01
				Zr-95	<1.55E+01	0.00E+00	1.55E+01
				Nb-95	<1.20E+01	0.00E+00	1.20E+01
				I-131	<4.76E+01	0.00E+00	4.76E+01
				Cs-134	<7.67E+00	0.00E+00	7.67E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				La-140	<4.78E+04	0.00E+00	4.78E+04
				Ba-140	<9.19E+01	0.00E+00	9.19E+01
				Total-Gam	0.00E+00		
Sample ID:	435051	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.5E+02	0.00E+00	2.64E+02
Sample ID:	435761	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.08E+02	0.00E+00	2.41E+02
Sample ID:	436211	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.12E+02	0.00E+00	2.37E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 497 [INDICATOR - - @ 0 miles]

Sample ID:	436662	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.54E+02
Sample ID:	436653	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.81E+00	0.00E+00	7.81E+00
				Co-58	<9.19E+00	0.00E+00	9.19E+00
				Fe-59	<1.69E+01	0.00E+00	1.69E+01
				Co-60	<6.60E+00	0.00E+00	6.60E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<1.21E+01	0.00E+00	1.21E+01
				Nb-95	<7.86E+00	0.00E+00	7.86E+00
				I-131	<2.25E+01	0.00E+00	2.25E+01
				Cs-134	<6.68E+00	0.00E+00	6.68E+00
				Cs-137	<6.27E+00	0.00E+00	6.27E+00
				La-140	<1.19E+03	0.00E+00	1.19E+03
				Ba-140	<5.20E+01	0.00E+00	5.20E+01
				Total-Gam	0.00E+00		
Sample ID:	437523	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.7E+01	0.00E+00	2.43E+02
Sample ID:	438253	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.75E+01	0.00E+00	2.33E+02
Sample ID:	438756	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.0E+02	0.00E+00	2.40E+02
Sample ID:	439099	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.46E+02
Sample ID:	439455	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.61E+00	0.00E+00	8.61E+00
				Co-58	<7.42E+00	0.00E+00	7.42E+00
				Fe-59	<1.52E+01	0.00E+00	1.52E+01
				Co-60	<7.89E+00	0.00E+00	7.89E+00
				Zn-65	<1.57E+01	0.00E+00	1.57E+01
				Zr-95	<1.33E+01	0.00E+00	1.33E+01
				Nb-95	<1.07E+01	0.00E+00	1.07E+01
				I-131	<2.22E+01	0.00E+00	2.22E+01
				Cs-134	<8.57E+00	0.00E+00	8.57E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<1.13E+03	0.00E+00	1.13E+03
				Ba-140	<5.43E+01	0.00E+00	5.43E+01
				Total-Gam	0.00E+00		
Sample ID:	439952	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.53E+02
Sample ID:	440524	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.97E+00	0.00E+00	2.36E+02
Sample ID:	441364	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.76E+01	0.00E+00	2.24E+02
Sample ID:	441775	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.0E+01	0.00E+00	2.40E+02
Sample ID:	442208	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.61E+00	0.00E+00	8.61E+00
				Co-58	<1.03E+01	0.00E+00	1.03E+01
				Fe-59	<1.60E+01	0.00E+00	1.61E+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	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<1.15E+01	0.00E+00	1.15E+01
				I-131	<1.77E+01	0.00E+00	1.77E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 497 [INDICATOR -- @ 0 miles]

Sample ID:	442208	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<7.68E+00	0.00E+00	7.68E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				La-140	<9.59E+02	0.00E+00	9.59E+02
				Ba-140	<4.39E+01	0.00E+00	4.39E+01
				Total-Gam	0.00E+00		
Sample ID:	442222	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.37E+01	0.00E+00	2.52E+02
Sample ID:	442813	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.81E+02	0.00E+00	2.46E+02
Sample ID:	443251	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+01	0.00E+00	2.63E+02
Sample ID:	443809	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.96E+01	0.00E+00	2.44E+02
Sample ID:	444203	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.8E+02	0.00E+00	2.42E+02
Sample ID:	444194	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.38E+00	0.00E+00	7.38E+00
				Co-58	<8.49E+00	0.00E+00	8.49E+00
				Fe-59	<1.97E+01	0.00E+00	1.97E+01
				Co-60	<5.98E+00	0.00E+00	5.98E+00
				Zn-65	<1.70E+01	0.00E+00	1.70E+01
				Zr-95	<1.65E+01	0.00E+00	1.65E+01
				Nb-95	<1.18E+01	0.00E+00	1.18E+01
				I-131	<5.31E+01	0.00E+00	5.31E+01
				Cs-134	<8.01E+00	0.00E+00	8.01E+00
				Cs-137	<8.41E+00	0.00E+00	8.42E+00
				La-140	<5.27E+04	0.00E+00	5.27E+04
				Ba-140	<5.84E+01	0.00E+00	5.84E+01
				Total-Gam	0.00E+00		
Sample ID:	445273	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.8E+01	0.00E+00	2.31E+02
Sample ID:	446272	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<0.00E+00	0.00E+00	2.48E+02
Sample ID:	446776	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.7E+01	0.00E+00	2.42E+02
Sample ID:	447102	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.43E+01	0.00E+00	2.26E+02
Sample ID:	447419	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.36E+00	0.00E+00	8.36E+00
				Co-58	<8.09E+00	0.00E+00	8.09E+00
				Fe-59	<1.79E+01	0.00E+00	1.79E+01
				Co-60	<7.30E+00	0.00E+00	7.30E+00
				Zn-65	<1.82E+01	0.00E+00	1.82E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<1.02E+01	0.00E+00	1.02E+01
				I-131	<2.32E+01	0.00E+00	2.32E+01
				Cs-134	<7.77E+00	0.00E+00	7.77E+00
				Cs-137	<9.30E+00	0.00E+00	9.30E+00
				La-140	<1.03E+03	0.00E+00	1.03E+03
				Ba-140	<4.81E+01	0.00E+00	4.81E+01
				Total-Gam	0.00E+00		
Sample ID:	447755	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.27E+01	0.00E+00	2.33E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 497 [INDICATOR - - @ 0 miles]

Sample ID:	448219	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.15E+02	0.00E+00	2.22E+02
Sample ID:	448845	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.02E+02	0.00E+00	2.22E+02
Sample ID:	449158	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.45E+02	0.00E+00	2.27E+02
Sample ID:	449884	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.43E+00	0.00E+00	9.43E+00
				Co-58	<8.44E+00	0.00E+00	8.44E+00
				Fe-59	<1.83E+01	0.00E+00	1.83E+01
				Co-60	<2.99E+00	0.00E+00	2.99E+00
				Zn-65	<2.43E+01	0.00E+00	2.43E+01
				Zr-95	<1.71E+01	0.00E+00	1.72E+01
				Nb-95	<9.77E+00	0.00E+00	9.77E+00
				I-131	<3.24E+01	0.00E+00	3.24E+01
				Cs-134	<6.71E+00	0.00E+00	6.71E+00
				Cs-137	<1.01E+01	0.00E+00	1.01E+01
				La-140	<9.13E+03	0.00E+00	9.13E+03
				Ba-140	<5.92E+01	0.00E+00	5.92E+01
				Total-Gam	0.00E+00		
Sample ID:	449895	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.77E+02	0.00E+00	2.21E+02
Sample ID:	450564	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.45E+00	0.00E+00	6.45E+00
				Co-58	<7.55E+00	0.00E+00	7.55E+00
				Fe-59	<1.45E+01	0.00E+00	1.45E+01
				Co-60	<7.28E+00	0.00E+00	7.27E+00
				Zn-65	<2.04E+01	0.00E+00	2.04E+01
				Zr-95	<1.46E+01	0.00E+00	1.46E+01
				Nb-95	<8.88E+00	0.00E+00	8.87E+00
				I-131	<7.10E+00	0.00E+00	7.10E+00
				Cs-134	<6.42E+00	0.00E+00	6.42E+00
				Cs-137	<1.10E+01	0.00E+00	1.10E+01
				La-140	<9.19E+00	0.00E+00	9.19E+00
				Ba-140	<2.24E+01	0.00E+00	2.24E+01
				Total-Gam	0.00E+00		
				H3SW	<1.31E+02	0.00E+00	2.34E+02
Sample ID:	451604	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.12E+00	0.00E+00	7.12E+00
				Co-58	<6.24E+00	0.00E+00	6.24E+00
				Fe-59	<1.36E+01	0.00E+00	1.36E+01
				Co-60	<8.06E+00	0.00E+00	8.06E+00
				Zn-65	<1.54E+01	0.00E+00	1.54E+01
				Zr-95	<1.33E+01	0.00E+00	1.33E+01
				Nb-95	<7.98E+00	0.00E+00	7.98E+00
				I-131	<1.11E+01	0.00E+00	1.11E+01
				Cs-134	<8.36E+00	0.00E+00	8.36E+00
				Cs-137	<6.57E+00	0.00E+00	6.57E+00
				La-140	<4.31E+01	0.00E+00	4.31E+01
				Ba-140	<3.55E+01	0.00E+00	3.55E+01
				Total-Gam	0.00E+00		
				H3SW	<1.87E+01	0.00E+00	2.35E+02
Sample ID:	461268	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.21E+00	0.00E+00	4.21E+00
				Co-58	<5.62E+00	0.00E+00	5.62E+00
				Fe-59	<8.27E+00	0.00E+00	8.27E+00
				Co-60	<6.03E+00	0.00E+00	6.03E+00
				Zn-65	<1.23E+01	0.00E+00	1.23E+01
				Zr-95	<9.76E+00	0.00E+00	9.76E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 497 [INDICATOR - - @ 0 miles]

Sample ID:	461268	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<5.62E+00	0.00E+00	5.62E+00
				I-131	<5.80E+00	0.00E+00	5.80E+00
				Cs-134	<7.41E+00	0.00E+00	7.41E+00
				Cs-137	<6.01E+00	0.00E+00	6.01E+00
				BaLa-140	<3.89E+00	0.00E+00	3.89E+00
				Total-Gam	0.00E+00		
				H3SW	<8.9E+01	0.00E+00	2.07E+02
Sample ID:	461916	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.73E+00	0.00E+00	5.73E+00
				Co-58	<5.53E+00	0.00E+00	5.53E+00
				Fe-59	<1.05E+01	0.00E+00	1.05E+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	<9.93E+00	0.00E+00	9.93E+00
				Nb-95	<5.74E+00	0.00E+00	5.74E+00
				I-131	<5.77E+00	0.00E+00	5.77E+00
				Cs-134	<7.61E+00	0.00E+00	7.61E+00
				Cs-137	<6.77E+00	0.00E+00	6.77E+00
				BaLa-140	<8.87E+00	0.00E+00	8.87E+00
				Total-Gam	0.00E+00		
				H3SW	<3.97E+01	0.00E+00	1.78E+02
Sample ID:	464233	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.72E+00	0.00E+00	4.72E+00
				Co-58	<4.14E+00	0.00E+00	4.14E+00
				Fe-59	<9.61E+00	0.00E+00	9.61E+00
				Co-60	<5.27E+00	0.00E+00	5.27E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<9.97E+00	0.00E+00	9.97E+00
				Nb-95	<5.21E+00	0.00E+00	5.21E+00
				I-131	<8.72E+00	0.00E+00	8.72E+00
				Cs-134	<6.17E+00	0.00E+00	6.17E+00
				Cs-137	<6.59E+00	0.00E+00	6.59E+00
				BaLa-140	<7.44E+00	0.00E+00	7.44E+00
				Total-Gam	0.00E+00		
				H3SW	<9.9E+01	0.00E+00	1.88E+02

Sample Point 498 [INDICATOR - - @ 0 miles]

Sample ID:	432854	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.43E+01	0.00E+00	2.52E+02
Sample ID:	433256	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.67E+01	0.00E+00	2.51E+02
Sample ID:	433673	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.2E+00	0.00E+00	2.33E+02
Sample ID:	434408	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.18E+02	0.00E+00	2.38E+02
Sample ID:	434399	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.23E+00	0.00E+00	8.23E+00
				Co-58	<9.38E+00	0.00E+00	9.38E+00
				Fe-59	<1.83E+01	0.00E+00	1.83E+01
				Co-60	<8.46E+00	0.00E+00	8.46E+00
				Zn-65	<1.20E+01	0.00E+00	1.20E+01
				Zr-95	<1.63E+01	0.00E+00	1.63E+01
				Nb-95	<1.12E+01	0.00E+00	1.12E+01
				I-131	<3.93E+01	0.00E+00	3.93E+01
				Cs-134	<6.93E+00	0.00E+00	6.93E+00
				Cs-137	<6.87E+00	0.00E+00	6.87E+00
				La-140	<3.54E+04	0.00E+00	3.54E+04

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 498 [INDICATOR - - @ 0 miles]

Sample ID:	434399	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Ba-140	<7.35E+01	0.00E+00	7.35E+01
				Total-Gam	0.00E+00		
Sample ID:	435052	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.1E+02	0.00E+00	2.60E+02
Sample ID:	435762	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.89E+00	0.00E+00	2.42E+02
Sample ID:	436212	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.61E+02	0.00E+00	2.28E+02
Sample ID:	436663	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.53E+02
Sample ID:	436654	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.00E+01	0.00E+00	1.00E+01
				Co-58	<1.09E+01	0.00E+00	1.09E+01
				Fe-59	<1.60E+01	0.00E+00	1.60E+01
				Co-60	<7.89E+00	0.00E+00	7.89E+00
				Zn-65	<1.48E+01	0.00E+00	1.48E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<8.89E+00	0.00E+00	8.89E+00
				I-131	<1.95E+01	0.00E+00	1.95E+01
				Cs-134	<8.35E+00	0.00E+00	8.35E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<5.37E+02	0.00E+00	5.37E+02
				Ba-140	<4.80E+01	0.00E+00	4.80E+01
				Total-Gam	0.00E+00		
Sample ID:	437524	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.78E+01	0.00E+00	2.54E+02
Sample ID:	438254	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.46E+00	0.00E+00	2.35E+02
Sample ID:	438757	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.0E+02	0.00E+00	2.40E+02
Sample ID:	439100	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+02	0.00E+00	2.45E+02
Sample ID:	439456	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.53E+00	0.00E+00	7.53E+00
				Co-58	<9.76E+00	0.00E+00	9.77E+00
				Fe-59	<1.95E+01	0.00E+00	1.95E+01
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.96E+01	0.00E+00	1.96E+01
				Zr-95	<1.68E+01	0.00E+00	1.68E+01
				Nb-95	<7.93E+00	0.00E+00	7.93E+00
				I-131	<1.88E+01	0.00E+00	1.88E+01
				Cs-134	<6.68E+00	0.00E+00	6.68E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				La-140	<1.16E+03	0.00E+00	1.16E+03
				Ba-140	<5.23E+01	0.00E+00	5.23E+01
				Total-Gam	0.00E+00		
Sample ID:	439953	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.6E+01	0.00E+00	2.55E+02
Sample ID:	440525	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.71E+01	0.00E+00	2.31E+02
Sample ID:	441365	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.41E+01	0.00E+00	2.24E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 498 [INDICATOR - - @ 0 miles]

Sample ID:	441776	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.45E+01	0.00E+00	2.38E+02
Sample ID:	442209	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.90E+00	0.00E+00	7.90E+00
				Co-58	<8.47E+00	0.00E+00	8.47E+00
				Fe-59	<1.75E+01	0.00E+00	1.75E+01
				Co-60	<7.14E+00	0.00E+00	7.14E+00
				Zn-65	<1.76E+01	0.00E+00	1.76E+01
				Zr-95	<1.72E+01	0.00E+00	1.72E+01
				Nb-95	<9.49E+00	0.00E+00	9.49E+00
				I-131	<3.36E+01	0.00E+00	3.36E+01
				Cs-134	<8.14E+00	0.00E+00	8.14E+00
				Cs-137	<6.58E+00	0.00E+00	6.58E+00
				La-140	<8.04E+03	0.00E+00	8.04E+03
				Ba-140	<5.73E+01	0.00E+00	5.73E+01
				Total-Gam	0.00E+00		
Sample ID:	442223	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.31E+02	0.00E+00	2.53E+02
Sample ID:	442814	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.60E+02	0.00E+00	2.46E+02
Sample ID:	443252	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.99E+01	0.00E+00	2.57E+02
Sample ID:	443810	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.6E+00	0.00E+00	2.44E+02
Sample ID:	444204	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.4E+02	0.00E+00	2.42E+02
Sample ID:	444195	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.74E+00	0.00E+00	6.74E+00
				Co-58	<1.07E+01	0.00E+00	1.07E+01
				Fe-59	<1.76E+01	0.00E+00	1.76E+01
				Co-60	<7.92E+00	0.00E+00	7.91E+00
				Zn-65	<2.09E+01	0.00E+00	2.09E+01
				Zr-95	<1.76E+01	0.00E+00	1.76E+01
				Nb-95	<1.22E+01	0.00E+00	1.22E+01
				I-131	<4.75E+01	0.00E+00	4.75E+01
				Cs-134	<7.12E+00	0.00E+00	7.12E+00
				Cs-137	<7.93E+00	0.00E+00	7.93E+00
				La-140	<5.50E+04	0.00E+00	5.50E+04
				Ba-140	<6.62E+01	0.00E+00	6.62E+01
				Total-Gam	0.00E+00		
Sample ID:	445274	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.3E+01	0.00E+00	2.32E+02
Sample ID:	446273	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.9E+01	0.00E+00	2.49E+02
Sample ID:	446777	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.2E+02	0.00E+00	2.43E+02
Sample ID:	447103	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.02E+01	0.00E+00	2.26E+02
Sample ID:	447420	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.11E+00	0.00E+00	8.11E+00
				Co-58	<6.79E+00	0.00E+00	6.79E+00
				Fe-59	<1.73E+01	0.00E+00	1.73E+01
				Co-60	<6.67E+00	0.00E+00	6.67E+00
				Zn-65	<1.97E+01	0.00E+00	1.97E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 498 [INDICATOR - - @ 0 miles]

Sample ID:	447420	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Zr-95	<1.29E+01	0.00E+00	1.29E+01
				Nb-95	<6.46E+00	0.00E+00	6.46E+00
				I-131	<2.20E+01	0.00E+00	2.20E+01
				Cs-134	<7.78E+00	0.00E+00	7.78E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				La-140	<1.37E+03	0.00E+00	1.37E+03
				Ba-140	<5.31E+01	0.00E+00	5.31E+01
				Total-Gam	0.00E+00		
Sample ID:	447756	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.9E+01	0.00E+00	2.34E+02
Sample ID:	448220	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.44E+02	0.00E+00	2.22E+02
Sample ID:	448846	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.92E+01	0.00E+00	2.21E+02
Sample ID:	449159	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.76E+02	0.00E+00	2.29E+02
Sample ID:	449885	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.70E+00	0.00E+00	8.70E+00
				Co-58	<8.11E+00	0.00E+00	8.11E+00
				Fe-59	<1.74E+01	0.00E+00	1.74E+01
				Co-60	<7.32E+00	0.00E+00	7.31E+00
				Zn-65	<1.41E+01	0.00E+00	1.41E+01
				Zr-95	<1.51E+01	0.00E+00	1.51E+01
				Nb-95	<1.11E+01	0.00E+00	1.11E+01
				I-131	<3.18E+01	0.00E+00	3.18E+01
				Cs-134	<7.97E+00	0.00E+00	7.97E+00
				Cs-137	<8.18E+00	0.00E+00	8.18E+00
				La-140	<6.98E+03	0.00E+00	6.98E+03
				Ba-140	<5.46E+01	0.00E+00	5.46E+01
				Total-Gam	0.00E+00		
Sample ID:	449896	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.06E+02	0.00E+00	2.21E+02
Sample ID:	450565	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.16E+00	0.00E+00	8.16E+00
				Co-58	<8.80E+00	0.00E+00	8.80E+00
				Fe-59	<1.02E+01	0.00E+00	1.02E+01
				Co-60	<5.94E+00	0.00E+00	5.94E+00
				Zn-65	<1.61E+01	0.00E+00	1.61E+01
				Zr-95	<1.51E+01	0.00E+00	1.51E+01
				Nb-95	<8.68E+00	0.00E+00	8.67E+00
				I-131	<7.01E+00	0.00E+00	7.01E+00
				Cs-134	<6.62E+00	0.00E+00	6.62E+00
				Cs-137	<8.86E+00	0.00E+00	8.86E+00
				La-140	<1.45E+01	0.00E+00	1.45E+01
				Ba-140	<3.01E+01	0.00E+00	3.01E+01
				Total-Gam	0.00E+00		
				H3SW	<1.13E+02	0.00E+00	2.35E+02
Sample ID:	451605	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.96E+00	0.00E+00	7.96E+00
				Co-58	<8.58E+00	0.00E+00	8.58E+00
				Fe-59	<1.66E+01	0.00E+00	1.66E+01
				Co-60	<9.69E+00	0.00E+00	9.69E+00
				Zn-65	<1.03E+01	0.00E+00	1.03E+01
				Zr-95	<1.28E+01	0.00E+00	1.28E+01
				Nb-95	<9.22E+00	0.00E+00	9.23E+00
				I-131	<1.00E+01	0.00E+00	1.00E+01
				Cs-134	<7.02E+00	0.00E+00	7.01E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 498 [INDICATOR - - @ 0 miles]

Sample ID:	451605	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
Cs-137	<1.03E+01	0.00E+00	1.03E+01				
La-140	<6.59E+01	0.00E+00	6.59E+01				
Ba-140	<3.49E+01	0.00E+00	3.49E+01				
Total-Gam	0.00E+00						
H3SW	<2.6E+01	0.00E+00	2.36E+02				

Sample ID:	461269	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.05E+00	0.00E+00	5.05E+00				
Co-58	<6.15E+00	0.00E+00	6.15E+00				
Fe-59	<8.53E+00	0.00E+00	8.53E+00				
Co-60	<6.21E+00	0.00E+00	6.21E+00				
Zn-65	<1.15E+01	0.00E+00	1.15E+01				
Zr-95	<1.04E+01	0.00E+00	1.04E+01				
Nb-95	<5.28E+00	0.00E+00	5.28E+00				
I-131	<4.67E+00	0.00E+00	4.67E+00				
Cs-134	<6.35E+00	0.00E+00	6.35E+00				
Cs-137	<5.52E+00	0.00E+00	5.52E+00				
BaLa-140	<5.86E+00	0.00E+00	5.86E+00				
Total-Gam	0.00E+00						
H3SW	<9.1E+01	0.00E+00	2.06E+02				

Sample ID:	461917	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.71E+00	0.00E+00	5.71E+00				
Co-58	<6.09E+00	0.00E+00	6.09E+00				
Fe-59	<7.32E+00	0.00E+00	7.32E+00				
Co-60	<6.82E+00	0.00E+00	6.82E+00				
Zn-65	<1.14E+01	0.00E+00	1.14E+01				
Zr-95	<1.08E+01	0.00E+00	1.08E+01				
Nb-95	<6.46E+00	0.00E+00	6.46E+00				
I-131	<5.26E+00	0.00E+00	5.26E+00				
Cs-134	<6.19E+00	0.00E+00	6.19E+00				
Cs-137	<6.51E+00	0.00E+00	6.51E+00				
BaLa-140	<7.50E+00	0.00E+00	7.50E+00				
Total-Gam	0.00E+00						
H3SW	<2.1E+01	0.00E+00	1.79E+02				

Sample ID:	464234	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<5.83E+00	0.00E+00	5.83E+00				
Co-58	<6.69E+00	0.00E+00	6.69E+00				
Fe-59	<1.22E+01	0.00E+00	1.22E+01				
Co-60	<5.97E+00	0.00E+00	5.97E+00				
Zn-65	<9.96E+00	0.00E+00	9.96E+00				
Zr-95	<1.19E+01	0.00E+00	1.19E+01				
Nb-95	<6.16E+00	0.00E+00	6.16E+00				
I-131	<8.97E+00	0.00E+00	8.97E+00				
Cs-134	<6.70E+00	0.00E+00	6.70E+00				
Cs-137	<6.11E+00	0.00E+00	6.11E+00				
BaLa-140	<9.01E+00	0.00E+00	9.01E+00				
Total-Gam	0.00E+00						
H3SW	<8.0E+01	0.00E+00	1.88E+02				

Sample Point 499 [CONTROL - - @ 0 miles]

Sample ID:	432855	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.31E+01	0.00E+00	2.41E+02
Sample ID:	433257	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.6E+00	0.00E+00	2.51E+02
Sample ID:	433674	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.12E+02	0.00E+00	2.33E+02
Sample ID:	434409	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.4E+01	0.00E+00	2.39E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	434400	Sample Dates:	1/4/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.03E+00	0.00E+00	9.03E+00
				Co-58	<9.45E+00	0.00E+00	9.45E+00
				Fe-59	<1.51E+01	0.00E+00	1.51E+01
				Co-60	<9.92E+00	0.00E+00	9.92E+00
				Zn-65	<2.08E+01	0.00E+00	2.08E+01
				Zr-95	<1.79E+01	0.00E+00	1.79E+01
				Nb-95	<9.42E+00	0.00E+00	9.42E+00
				I-131	<4.12E+01	0.00E+00	4.12E+01
				Cs-134	<7.30E+00	0.00E+00	7.31E+00
				Cs-137	<6.58E+00	0.00E+00	6.58E+00
				La-140	<3.59E+04	0.00E+00	3.59E+04
				Ba-140	<7.84E+01	0.00E+00	7.84E+01
				Total-Gam	0.00E+00		
Sample ID:	435053	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.2E+01	0.00E+00	2.60E+02
Sample ID:	435763	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.58E+01	0.00E+00	2.42E+02
Sample ID:	436213	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.08E+02	0.00E+00	2.36E+02
Sample ID:	436664	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.3E+02	0.00E+00	2.54E+02
Sample ID:	436655	Sample Dates:	2/8/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.35E+00	0.00E+00	9.35E+00
				Co-58	<7.78E+00	0.00E+00	7.78E+00
				Fe-59	<1.53E+01	0.00E+00	1.53E+01
				Co-60	<5.96E+00	0.00E+00	5.96E+00
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<1.28E+01	0.00E+00	1.28E+01
				Nb-95	<9.32E+00	0.00E+00	9.32E+00
				I-131	<1.83E+01	0.00E+00	1.83E+01
				Cs-134	<7.43E+00	0.00E+00	7.43E+00
				Cs-137	<6.58E+00	0.00E+00	6.57E+00
				La-140	<9.93E+02	0.00E+00	9.93E+02
				Ba-140	<4.73E+01	0.00E+00	4.73E+01
				Total-Gam	0.00E+00		
Sample ID:	437525	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+01	0.00E+00	2.55E+02
Sample ID:	438255	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.2E+02	0.00E+00	2.33E+02
Sample ID:	438758	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+02	0.00E+00	2.41E+02
Sample ID:	439101	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.6E+02	0.00E+00	2.45E+02
Sample ID:	439457	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.20E+00	0.00E+00	9.20E+00
				Co-58	<8.14E+00	0.00E+00	8.13E+00
				Fe-59	<1.64E+01	0.00E+00	1.64E+01
				Co-60	<8.45E+00	0.00E+00	8.45E+00
				Zn-65	<1.92E+01	0.00E+00	1.92E+01
				Zr-95	<1.41E+01	0.00E+00	1.41E+01
				Nb-95	<1.29E+01	0.00E+00	1.29E+01
				I-131	<3.35E+01	0.00E+00	3.35E+01
				Cs-134	<8.61E+00	0.00E+00	8.61E+00
				Cs-137	<8.18E+00	0.00E+00	8.18E+00
				La-140	<9.10E+03	0.00E+00	9.10E+03

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	439457	Sample Dates:	3/7/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Ba-140	<7.07E+01	0.00E+00	7.07E+01
				Total-Gam	0.00E+00		
Sample ID:	439954	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.0E+02	0.00E+00	2.55E+02
Sample ID:	440526	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.2E+02	0.00E+00	2.31E+02
Sample ID:	441366	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.31E+01	0.00E+00	2.23E+02
Sample ID:	441777	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.87E+00	0.00E+00	2.39E+02
Sample ID:	442210	Sample Dates:	4/4/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<7.00E+00	0.00E+00	7.00E+00
				Co-58	<5.76E+00	0.00E+00	5.76E+00
				Fe-59	<1.75E+01	0.00E+00	1.75E+01
				Co-60	<6.68E+00	0.00E+00	6.68E+00
				Zn-65	<1.76E+01	0.00E+00	1.76E+01
				Zr-95	<1.35E+01	0.00E+00	1.35E+01
				Nb-95	<1.02E+01	0.00E+00	1.02E+01
				I-131	<3.12E+01	0.00E+00	3.12E+01
				Cs-134	<7.46E+00	0.00E+00	7.46E+00
				Cs-137	<8.41E+00	0.00E+00	8.41E+00
				La-140	<8.28E+03	0.00E+00	8.28E+03
				Ba-140	<6.98E+01	0.00E+00	6.98E+01
				Total-Gam	0.00E+00		
Sample ID:	442224	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.64E+01	0.00E+00	2.50E+02
Sample ID:	442815	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.10E+02	0.00E+00	2.31E+02
Sample ID:	443253	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.31E+01	0.00E+00	2.57E+02
Sample ID:	443811	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.77E+01	0.00E+00	2.44E+02
Sample ID:	444205	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.24E+02	0.00E+00	2.47E+02
Sample ID:	444196	Sample Dates:	5/2/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<9.30E+00	0.00E+00	9.30E+00
				Co-58	<8.86E+00	0.00E+00	8.86E+00
				Fe-59	<1.65E+01	0.00E+00	1.65E+01
				Co-60	<7.33E+00	0.00E+00	7.33E+00
				Zn-65	<1.62E+01	0.00E+00	1.62E+01
				Zr-95	<1.88E+01	0.00E+00	1.88E+01
				Nb-95	<1.32E+01	0.00E+00	1.32E+01
				I-131	<4.81E+01	0.00E+00	4.81E+01
				Cs-134	<8.01E+00	0.00E+00	8.01E+00
				Cs-137	<8.18E+00	0.00E+00	8.18E+00
				La-140	<7.28E+04	0.00E+00	7.28E+04
				Ba-140	<8.92E+01	0.00E+00	8.92E+01
				Total-Gam	0.00E+00		
Sample ID:	445275	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.69E+01	0.00E+00	2.08E+02
Sample ID:	446274	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.0E+02	0.00E+00	2.48E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	446778	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+02	0.00E+00	2.43E+02
Sample ID:	447104	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.93E+01	0.00E+00	2.26E+02
Sample ID:	447421	Sample Dates:	6/6/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.63E+00	0.00E+00	8.63E+00
				Co-58	<7.51E+00	0.00E+00	7.51E+00
				Fe-59	<1.65E+01	0.00E+00	1.65E+01
				Co-60	<8.44E+00	0.00E+00	8.44E+00
				Zn-65	<1.18E+01	0.00E+00	1.18E+01
				Zr-95	<1.58E+01	0.00E+00	1.58E+01
				Nb-95	<9.47E+00	0.00E+00	9.47E+00
				I-131	<2.40E+01	0.00E+00	2.40E+01
				Cs-134	<7.43E+00	0.00E+00	7.43E+00
				Cs-137	<8.64E+00	0.00E+00	8.64E+00
				La-140	<1.97E+03	0.00E+00	1.97E+03
				Ba-140	<6.21E+01	0.00E+00	6.21E+01
				Total-Gam	0.00E+00		
Sample ID:	447757	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.8E+01	0.00E+00	2.33E+02
Sample ID:	448221	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.70E+02	0.00E+00	2.21E+02
Sample ID:	448847	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<4.55E+01	0.00E+00	2.42E+02
Sample ID:	449160	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.85E+02	0.00E+00	2.28E+02
Sample ID:	449886	Sample Dates:	7/5/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.17E+00	0.00E+00	8.17E+00
				Co-58	<8.45E+00	0.00E+00	8.45E+00
				Fe-59	<1.16E+01	0.00E+00	1.16E+01
				Co-60	<8.96E+00	0.00E+00	8.96E+00
				Zn-65	<1.99E+01	0.00E+00	1.99E+01
				Zr-95	<1.90E+01	0.00E+00	1.90E+01
				Nb-95	<1.17E+01	0.00E+00	1.17E+01
				I-131	<3.24E+01	0.00E+00	3.24E+01
				Cs-134	<7.72E+00	0.00E+00	7.72E+00
				Cs-137	<8.64E+00	0.00E+00	8.64E+00
				La-140	<4.10E+03	0.00E+00	4.10E+03
				Ba-140	<6.70E+01	0.00E+00	6.70E+01
				Total-Gam	0.00E+00		
Sample ID:	449897	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.46E+02	0.00E+00	2.31E+02
Sample ID:	450566	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.77E+00	0.00E+00	6.77E+00
				Co-58	<8.81E+00	0.00E+00	8.81E+00
				Fe-59	<1.12E+01	0.00E+00	1.12E+01
				Co-60	<7.10E+00	0.00E+00	7.10E+00
				Zn-65	<1.91E+01	0.00E+00	1.91E+01
				Zr-95	<1.38E+01	0.00E+00	1.38E+01
				Nb-95	<7.53E+00	0.00E+00	7.53E+00
				I-131	<7.77E+00	0.00E+00	7.77E+00
				Cs-134	<7.95E+00	0.00E+00	7.95E+00
				Cs-137	<8.86E+00	0.00E+00	8.86E+00
				La-140	<1.00E+01	0.00E+00	1.00E+01
				Ba-140	<3.09E+01	0.00E+00	3.09E+01
				Total-Gam	0.00E+00		
				H3SW	<1.56E+02	0.00E+00	2.34E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	451606	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.47E+00	0.00E+00	8.47E+00
				Co-58	<8.07E+00	0.00E+00	8.07E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<7.11E+00	0.00E+00	7.11E+00
				Zn-65	<1.78E+01	0.00E+00	1.78E+01
				Zr-95	<1.33E+01	0.00E+00	1.33E+01
				Nb-95	<9.46E+00	0.00E+00	9.46E+00
				I-131	<9.92E+00	0.00E+00	9.92E+00
				Cs-134	<7.02E+00	0.00E+00	7.02E+00
				Cs-137	<7.67E+00	0.00E+00	7.67E+00
				La-140	<6.10E+01	0.00E+00	6.10E+01
				Ba-140	<3.19E+01	0.00E+00	3.19E+01
				Total-Gam	0.00E+00		
				H3SW	<6.64E+01	0.00E+00	2.36E+02
Sample ID:	461270	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.63E+00	0.00E+00	3.63E+00
				Co-58	<3.00E+00	0.00E+00	3.00E+00
				Fe-59	<6.34E+00	0.00E+00	6.34E+00
				Co-60	<4.15E+00	0.00E+00	4.15E+00
				Zn-65	<8.71E+00	0.00E+00	8.71E+00
				Zr-95	<6.05E+00	0.00E+00	6.05E+00
				Nb-95	<3.39E+00	0.00E+00	3.39E+00
				I-131	<3.78E+00	0.00E+00	3.78E+00
				Cs-134	<3.76E+00	0.00E+00	3.76E+00
				Cs-137	<3.70E+00	0.00E+00	3.70E+00
				BaLa-140	<3.86E+00	0.00E+00	3.86E+00
				Total-Gam	0.00E+00		
				H3SW	<1.4E+02	0.00E+00	2.01E+02
Sample ID:	461918	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.68E+00	0.00E+00	4.68E+00
				Co-58	<5.46E+00	0.00E+00	5.46E+00
				Fe-59	<1.10E+01	0.00E+00	1.10E+01
				Co-60	<6.04E+00	0.00E+00	6.04E+00
				Zn-65	<1.12E+01	0.00E+00	1.12E+01
				Zr-95	<9.48E+00	0.00E+00	9.48E+00
				Nb-95	<5.64E+00	0.00E+00	5.64E+00
				I-131	<4.18E+00	0.00E+00	4.18E+00
				Cs-134	<5.26E+00	0.00E+00	5.26E+00
				Cs-137	<5.70E+00	0.00E+00	5.70E+00
				BaLa-140	<6.99E+00	0.00E+00	6.99E+00
				Total-Gam	0.00E+00		
				H3SW	<3.5E+01	0.00E+00	1.79E+02
Sample ID:	464235	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.80E+00	0.00E+00	5.80E+00
				Co-58	<5.58E+00	0.00E+00	5.58E+00
				Fe-59	<1.39E+01	0.00E+00	1.39E+01
				Co-60	<6.69E+00	0.00E+00	6.69E+00
				Zn-65	<1.06E+01	0.00E+00	1.06E+01
				Zr-95	<9.74E+00	0.00E+00	9.74E+00
				Nb-95	<6.51E+00	0.00E+00	6.51E+00
				I-131	<9.54E+00	0.00E+00	9.54E+00
				Cs-134	<5.79E+00	0.00E+00	5.79E+00
				Cs-137	<4.80E+00	0.00E+00	4.80E+00
				BaLa-140	<1.15E+01	0.00E+00	1.15E+01
				Total-Gam	0.00E+00		
				H3SW	<1.3E+02	0.00E+00	1.88E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 604 [INDICATOR -- @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432856	1/4/2017 - 1/4/2017	H3SW	<1.75E+00	0.00E+00	2.55E+02
433258	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.0E+03	0.00E+00	3.10E+02
433675	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.78E+02	1.54E+02	2.50E+02
434410	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	8.45E+02	1.60E+02	2.44E+02
435054	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.2E+00	0.00E+00	2.53E+02
435764	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	5.60E+03	2.22E+02	2.31E+02
436214	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	6.01E+02	1.56E+02	2.45E+02
436665	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<8.98E+01	0.00E+00	2.45E+02
437526	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.64E+01	0.00E+00	2.43E+02
438256	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	2.01E+03	1.72E+02	2.33E+02
438759	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.5E+03	0.00E+00	5.64E+02
439102	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	9.53E+02	1.65E+02	2.50E+02
439955	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.02E+01	0.00E+00	2.57E+02
440527	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	8.34E+02	1.51E+02	2.30E+02
441367	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	1.04E+03	1.53E+02	2.27E+02
441778	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.45E+02	1.46E+02	2.37E+02
442225	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	1.17E+03	1.59E+02	2.34E+02
442816	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.04E+02	0.00E+00	2.42E+02
443254	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.65E+01	0.00E+00	2.41E+02
443812	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	5.61E+02	1.48E+02	2.33E+02
444206	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.27E+02	0.00E+00	2.48E+02
445276	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.81E+02	0.00E+00	2.31E+02
446275	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.58E+01	0.00E+00	2.32E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 604 [INDICATOR - - @ 0 miles]

Sample ID:	446779	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	4.43E+02	1.50E+02	2.42E+02
Sample ID:	447105	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	2.60E+02	1.47E+02	2.42E+02
Sample ID:	447758	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.47E+01	0.00E+00	2.27E+02
Sample ID:	448222	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	2.88E+02	1.39E+02	2.28E+02
Sample ID:	448848	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	3.34E+02	1.42E+02	2.31E+02
Sample ID:	449161	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	3.95E+02	1.49E+02	2.41E+02
Sample ID:	449898	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	5.14E+02	1.40E+02	2.22E+02
Sample ID:	450567	Sample Dates:	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.84E+01	0.00E+00	1.84E+01
				Co-58	<1.22E+01	0.00E+00	1.22E+01
				Fe-59	<3.69E+01	0.00E+00	3.69E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<3.06E+01	0.00E+00	3.06E+01
				Zr-95	<1.47E+01	0.00E+00	1.47E+01
				Nb-95	<1.68E+01	0.00E+00	1.68E+01
				I-131	<1.90E+01	0.00E+00	1.90E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.88E+01	0.00E+00	1.88E+01
				La-140	<2.54E+01	0.00E+00	2.54E+01
				Ba-140	<5.73E+01	0.00E+00	5.73E+01
				Total-Gam	0.00E+00		
				H3SW	<5.10E+01	0.00E+00	2.58E+02
Sample ID:	451607	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.07E+01	0.00E+00	1.07E+01
				Co-58	<1.54E+01	0.00E+00	1.54E+01
				Fe-59	<2.53E+01	0.00E+00	2.53E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<2.18E+01	0.00E+00	2.18E+01
				Zr-95	<2.64E+01	0.00E+00	2.64E+01
				Nb-95	<1.67E+01	0.00E+00	1.67E+01
				I-131	<1.46E+01	0.00E+00	1.46E+01
				Cs-134	<9.66E+00	0.00E+00	9.66E+00
				Cs-137	<1.57E+01	0.00E+00	1.57E+01
				La-140	<2.23E+02	0.00E+00	2.23E+02
				Ba-140	<6.74E+01	0.00E+00	6.74E+01
				Total-Gam	0.00E+00		
				H3SW	<2.05E+01	0.00E+00	2.38E+02
Sample ID:	461271	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.57E+00	0.00E+00	6.57E+00
				Co-58	<6.02E+00	0.00E+00	6.02E+00
				Fe-59	<8.84E+00	0.00E+00	8.84E+00
				Co-60	<7.15E+00	0.00E+00	7.15E+00
				Zn-65	<1.60E+01	0.00E+00	1.60E+01
				Zr-95	<1.05E+01	0.00E+00	1.05E+01
				Nb-95	<6.02E+00	0.00E+00	6.02E+00
				I-131	<5.83E+00	0.00E+00	5.83E+00
				Cs-134	<5.88E+00	0.00E+00	5.88E+00
				Cs-137	<7.21E+00	0.00E+00	7.21E+00
				BaLa-140	<8.98E+00	0.00E+00	8.98E+00
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	461271	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	2.88E+02	1.28E+02	2.05E+02
Sample ID:	461919	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.46E+00	0.00E+00	5.46E+00
				Co-58	<5.99E+00	0.00E+00	5.99E+00
				Fe-59	<1.09E+01	0.00E+00	1.09E+01
				Co-60	<4.45E+00	0.00E+00	4.45E+00
				Zn-65	<1.55E+01	0.00E+00	1.55E+01
				Zr-95	<8.75E+00	0.00E+00	8.75E+00
				Nb-95	<5.83E+00	0.00E+00	5.83E+00
				I-131	<4.98E+00	0.00E+00	4.98E+00
				Cs-134	<6.13E+00	0.00E+00	6.13E+00
				Cs-137	<4.72E+00	0.00E+00	4.72E+00
				BaLa-140	<6.59E+00	0.00E+00	6.59E+00
				Total-Gam	0.00E+00		
				H3SW	<1.10E+02	0.00E+00	1.78E+02
Sample ID:	464236	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.31E+00	0.00E+00	5.31E+00
				Co-58	<5.28E+00	0.00E+00	5.28E+00
				Fe-59	<1.27E+01	0.00E+00	1.27E+01
				Co-60	<6.22E+00	0.00E+00	6.22E+00
				Zn-65	<1.53E+01	0.00E+00	1.53E+01
				Zr-95	<9.95E+00	0.00E+00	9.95E+00
				Nb-95	<6.40E+00	0.00E+00	6.40E+00
				I-131	<9.25E+00	0.00E+00	9.25E+00
				Cs-134	<5.94E+00	0.00E+00	5.94E+00
				Cs-137	<5.70E+00	0.00E+00	5.70E+00
				BaLa-140	<1.00E+01	0.00E+00	1.00E+01
				Total-Gam	0.00E+00		
				H3SW	<8.03E+01	0.00E+00	1.88E+02

Sample Point 605 [INDICATOR --- @ 0 miles]

Sample ID:	432857	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.32E+02	0.00E+00	2.42E+02
Sample ID:	433259	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.53E+02	0.00E+00	2.46E+02
Sample ID:	433676	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.36E+02	0.00E+00	2.33E+02
Sample ID:	434411	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.13E+02	0.00E+00	2.46E+02
Sample ID:	435055	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.2E+01	0.00E+00	2.59E+02
Sample ID:	435765	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	9.60E+02	1.59E+02	2.41E+02
Sample ID:	436215	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.65E+02	0.00E+00	2.36E+02
Sample ID:	436666	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.93E+02	0.00E+00	2.41E+02
Sample ID:	437527	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.4E+01	0.00E+00	2.56E+02
Sample ID:	438257	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.9E+00	0.00E+00	2.34E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 605 [INDICATOR - - @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
438760	3/14/2017 - 3/14/2017	H3SW	<1.5E+02	0.00E+00	2.56E+02
439103	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.8E+02	0.00E+00	2.45E+02
439956	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.2E+02	0.00E+00	2.40E+02
440528	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.60E+01	0.00E+00	2.49E+02
441368	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<9.53E+01	0.00E+00	2.24E+02
441779	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.10E+01	0.00E+00	2.55E+02
442226	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<8.24E+01	0.00E+00	2.54E+02
442817	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.13E+02	0.00E+00	2.31E+02
443255	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<9.41E+01	0.00E+00	2.41E+02
443813	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.6E+02	0.00E+00	2.44E+02
444207	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.32E+02	0.00E+00	2.47E+02
445277	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.0E+01	0.00E+00	2.31E+02
446276	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.0E+02	0.00E+00	2.46E+02
446780	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.4E+01	0.00E+00	2.50E+02
447106	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.35E+02	0.00E+00	2.37E+02
447759	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.8E+02	0.00E+00	2.51E+02
448223	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.83E+00	0.00E+00	2.28E+02
448849	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.8E+01	0.00E+00	2.42E+02
449162	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.11E+02	0.00E+00	2.41E+02
449899	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.97E+02	0.00E+00	2.27E+02

Sample Point 606 [INDICATOR - - @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
432858	1/4/2017 - 1/4/2017	H3SW	<7.6E+01	0.00E+00	2.46E+02
433260	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.03E+02	0.00E+00	2.46E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 606 [INDICATOR -- @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
433677	1/17/2017 - 1/17/2017	H3SW	<1.77E+02	0.00E+00	2.33E+02
434412	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.31E+02	0.00E+00	2.48E+02
435056	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-3.1E+01	0.00E+00	2.60E+02
435766	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	9.77E+02	1.59E+02	2.41E+02
436216	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.33E+02	0.00E+00	2.37E+02
436667	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.97E+02	0.00E+00	2.44E+02
437528	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.01E+01	0.00E+00	2.56E+02
438258	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.13E+01	0.00E+00	2.34E+02
438761	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.0E+02	0.00E+00	2.55E+02
439104	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.9E+02	0.00E+00	2.47E+02
439957	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<9.0E+01	0.00E+00	2.41E+02
440529	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.3E+01	0.00E+00	2.48E+02
441369	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.38E+02	0.00E+00	2.24E+02
441780	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<0.00E+00	0.00E+00	2.56E+02
442227	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.01E+02	0.00E+00	2.28E+02
442818	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.00E+02	0.00E+00	2.32E+02
443256	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.56E+01	0.00E+00	2.40E+02
443814	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.7E+02	0.00E+00	2.44E+02
444208	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.6E+02	0.00E+00	2.48E+02
445278	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.55E+01	0.00E+00	2.31E+02
446277	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.8E+02	0.00E+00	2.47E+02
446781	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.9E+01	0.00E+00	2.50E+02
447107	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.27E+02	0.00E+00	2.37E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 606 [INDICATOR - - @ 0 miles]

Sample ID:	447760	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.5E+00	0.00E+00	2.50E+02
Sample ID:	448224	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.36E+01	0.00E+00	2.27E+02
Sample ID:	448850	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.09E+01	0.00E+00	2.43E+02
Sample ID:	449163	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.61E+01	0.00E+00	2.36E+02
Sample ID:	449900	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.88E+02	0.00E+00	2.31E+02

Sample Point 607 [INDICATOR - - @ 0 miles]

Sample ID:	432859	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.5E+01	0.00E+00	2.57E+02
Sample ID:	433261	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.13E+02	0.00E+00	2.47E+02
Sample ID:	433678	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.02E+02	0.00E+00	2.32E+02
Sample ID:	434413	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.45E+02	0.00E+00	2.48E+02
Sample ID:	435057	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<3.0E+01	0.00E+00	2.59E+02
Sample ID:	435767	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	1.11E+03	1.56E+02	2.30E+02
Sample ID:	436217	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.79E+01	0.00E+00	2.36E+02
Sample ID:	436668	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.67E+02	0.00E+00	2.42E+02
Sample ID:	437529	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.5E+01	0.00E+00	2.56E+02
Sample ID:	438259	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<5.5E+01	0.00E+00	2.35E+02
Sample ID:	438762	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.5E+02	0.00E+00	2.55E+02
Sample ID:	439105	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.5E+02	0.00E+00	2.47E+02
Sample ID:	439958	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.8E+02	0.00E+00	2.42E+02
Sample ID:	440530	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+02	0.00E+00	2.47E+02
Sample ID:	441370	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.40E+02	0.00E+00	2.24E+02
Sample ID:	441781	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+00	0.00E+00	2.55E+02
Sample ID:	442228	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.23E+02	0.00E+00	2.55E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 607 [INDICATOR - - @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
442819	5/2/2017 - 5/2/2017	H3SW	<1.97E+02	0.00E+00	2.46E+02
443257	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.20E+01	0.00E+00	2.41E+02
443815	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.7E+02	0.00E+00	2.44E+02
444209	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.2E+01	0.00E+00	2.47E+02
445279	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-6.9E+00	0.00E+00	2.30E+02
446278	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.5E+02	0.00E+00	2.47E+02
446782	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-3.8E+00	0.00E+00	2.50E+02
447108	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.47E+01	0.00E+00	2.38E+02
447761	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.90E+01	0.00E+00	2.51E+02
448225	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.20E+01	0.00E+00	2.28E+02
448851	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.40E+01	0.00E+00	2.42E+02
449164	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<8.96E+01	0.00E+00	2.36E+02
449901	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.28E+02	0.00E+00	2.38E+02
450568	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.37E+01	0.00E+00	1.37E+01
		Co-58	<8.66E+00	0.00E+00	8.66E+00
		Fe-59	<2.08E+01	0.00E+00	2.08E+01
		Co-60	<8.91E+00	0.00E+00	8.91E+00
		Zn-65	<3.42E+01	0.00E+00	3.42E+01
		Zr-95	<2.08E+01	0.00E+00	2.08E+01
		Nb-95	<1.33E+01	0.00E+00	1.33E+01
		I-131	<1.84E+01	0.00E+00	1.84E+01
		Cs-134	<1.52E+01	0.00E+00	1.52E+01
		Cs-137	<1.19E+01	0.00E+00	1.19E+01
		La-140	<4.12E+01	0.00E+00	4.12E+01
		Ba-140	<3.82E+01	0.00E+00	3.82E+01
		Total-Gam	0.00E+00		
		H3SW	<3.21E+01	0.00E+00	2.58E+02
451608	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.63E+01	0.00E+00	1.63E+01
		Co-58	<8.90E+00	0.00E+00	8.90E+00
		Fe-59	<2.06E+01	0.00E+00	2.06E+01
		Co-60	<1.26E+01	0.00E+00	1.26E+01
		Zn-65	<2.67E+01	0.00E+00	2.67E+01
		Zr-95	<2.15E+01	0.00E+00	2.15E+01
		Nb-95	<1.54E+01	0.00E+00	1.54E+01
		I-131	<2.05E+01	0.00E+00	2.05E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.97E+01	0.00E+00	1.97E+01
		La-140	<1.19E+02	0.00E+00	1.19E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	451608	Sample Dates:	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Ba-140	<6.32E+01	0.00E+00	6.32E+01
				Total-Gam	0.00E+00		
				H3SW	<1.15E+02	0.00E+00	2.40E+02
Sample ID:	461272	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.47E+00	0.00E+00	5.47E+00
				Co-58	<6.00E+00	0.00E+00	6.00E+00
				Fe-59	<7.80E+00	0.00E+00	7.80E+00
				Co-60	<5.82E+00	0.00E+00	5.82E+00
				Zn-65	<1.41E+01	0.00E+00	1.41E+01
				Zr-95	<7.09E+00	0.00E+00	7.09E+00
				Nb-95	<4.22E+00	0.00E+00	4.22E+00
				I-131	<5.61E+00	0.00E+00	5.61E+00
				Cs-134	<5.18E+00	0.00E+00	5.18E+00
				Cs-137	<3.06E+00	0.00E+00	3.06E+00
				BaLa-140	<6.52E+00	0.00E+00	6.52E+00
				Total-Gam	0.00E+00		
				H3SW	<1.1E+02	0.00E+00	2.07E+02
Sample ID:	461920	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.84E+00	0.00E+00	4.84E+00
				Co-58	<4.35E+00	0.00E+00	4.35E+00
				Fe-59	<9.78E+00	0.00E+00	9.78E+00
				Co-60	<5.82E+00	0.00E+00	5.82E+00
				Zn-65	<1.02E+01	0.00E+00	1.02E+01
				Zr-95	<7.99E+00	0.00E+00	7.99E+00
				Nb-95	<4.91E+00	0.00E+00	4.91E+00
				I-131	<5.24E+00	0.00E+00	5.24E+00
				Cs-134	<6.15E+00	0.00E+00	6.15E+00
				Cs-137	<5.73E+00	0.00E+00	5.73E+00
				BaLa-140	<1.48E+00	0.00E+00	1.48E+00
				Total-Gam	0.00E+00		
				H3SW	<6.31E+01	0.00E+00	1.78E+02
Sample ID:	464237	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.08E+00	0.00E+00	4.08E+00
				Co-58	<4.61E+00	0.00E+00	4.61E+00
				Fe-59	<9.14E+00	0.00E+00	9.14E+00
				Co-60	<3.58E+00	0.00E+00	3.58E+00
				Zn-65	<8.97E+00	0.00E+00	8.97E+00
				Zr-95	<7.39E+00	0.00E+00	7.39E+00
				Nb-95	<5.11E+00	0.00E+00	5.11E+00
				I-131	<6.58E+00	0.00E+00	6.58E+00
				Cs-134	<5.13E+00	0.00E+00	5.13E+00
				Cs-137	<3.82E+00	0.00E+00	3.82E+00
				BaLa-140	<5.61E+00	0.00E+00	5.61E+00
				Total-Gam	0.00E+00		
				H3SW	<8.7E+01	0.00E+00	1.88E+02

Sample Point 608 [INDICATOR --- @ 0 miles]

Sample ID:	432860	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<6.7E+01	0.00E+00	2.56E+02
Sample ID:	433262	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.2E+03	0.00E+00	3.08E+02
Sample ID:	433679	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.31E+02	0.00E+00	2.50E+02
Sample ID:	434414	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.34E+01	0.00E+00	2.45E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 608 [INDICATOR -- @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
435058	1/31/2017 - 1/31/2017	H3SW	<1.3E+02	0.00E+00	2.52E+02
435768	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.03E+02	0.00E+00	2.30E+02
436218	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.92E+02	0.00E+00	2.47E+02
436669	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.07E+01	0.00E+00	2.44E+02
437530	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.4E+02	0.00E+00	2.42E+02
438260	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.1E+02	0.00E+00	2.35E+02
438763	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<8.5E+03	0.00E+00	5.69E+02
439106	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.7E+01	0.00E+00	2.51E+02
439959	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.8E+02	0.00E+00	2.56E+02
440531	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.44E+02	0.00E+00	2.29E+02
441371	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.25E+01	0.00E+00	2.27E+02
441782	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.87E+02	0.00E+00	2.36E+02
442229	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	3.31E+02	1.41E+02	2.30E+02
442820	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<9.2E+01	0.00E+00	2.43E+02
443258	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.04E+01	0.00E+00	2.42E+02
443816	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.08E+01	0.00E+00	2.33E+02
444210	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.1E+01	0.00E+00	2.46E+02
445280	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.77E+01	0.00E+00	2.32E+02
446279	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<9.88E+01	0.00E+00	2.33E+02
446783	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.7E+02	0.00E+00	2.42E+02
447109	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.77E+01	0.00E+00	2.42E+02
447762	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.36E+01	0.00E+00	2.27E+02
448226	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.19E+01	0.00E+00	2.28E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 608 [INDICATOR --- @ 0 miles]

Sample ID:	448852	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.67E+02	0.00E+00	2.26E+02
Sample ID:	449165	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.04E+02	0.00E+00	2.43E+02
Sample ID:	449902	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.36E+02	0.00E+00	2.42E+02

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

Sample ID:	432861	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-2.3E+01	0.00E+00	2.56E+02
Sample ID:	433263	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<-1.2E+03	0.00E+00	3.12E+02
Sample ID:	433680	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.78E+01	0.00E+00	2.51E+02
Sample ID:	434415	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.95E+02	0.00E+00	2.45E+02
Sample ID:	435059	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.9E+02	0.00E+00	2.53E+02
Sample ID:	435769	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.95E+02	0.00E+00	2.31E+02
Sample ID:	436219	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.93E+02	0.00E+00	2.47E+02
Sample ID:	436670	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.6E+01	0.00E+00	2.45E+02
Sample ID:	437531	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.0E+02	0.00E+00	2.43E+02
Sample ID:	438261	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<9.3E+01	0.00E+00	2.33E+02
Sample ID:	438764	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.4E+03	0.00E+00	5.66E+02
Sample ID:	439107	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.7E+01	0.00E+00	2.52E+02
Sample ID:	439960	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.2E+02	0.00E+00	2.57E+02
Sample ID:	440532	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<8.12E+01	0.00E+00	2.28E+02
Sample ID:	441372	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.4E+01	0.00E+00	2.26E+02
Sample ID:	441783	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.43E+02	0.00E+00	2.37E+02
Sample ID:	442230	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	2.92E+02	1.40E+02	2.30E+02
Sample ID:	442821	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.58E+01	0.00E+00	2.43E+02
Sample ID:	443259	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.87E+01	0.00E+00	2.41E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 609 [INDICATOR - - @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
443817	5/16/2017 - 5/16/2017	H3SW	<5.9E+01	0.00E+00	2.33E+02
444211	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.08E+02	0.00E+00	2.41E+02
445281	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.9E+01	0.00E+00	2.30E+02
446280	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.92E+01	0.00E+00	2.35E+02
446784	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.4E+02	0.00E+00	2.42E+02
447110	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.1E+01	0.00E+00	2.41E+02
447763	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.2E+01	0.00E+00	2.25E+02
448227	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.09E+01	0.00E+00	2.28E+02
448853	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.75E+02	0.00E+00	2.30E+02
449166	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.60E+01	0.00E+00	2.36E+02
449903	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.06E+02	0.00E+00	2.41E+02
450569	8/7/2017 - 8/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.50E+01	0.00E+00	1.50E+01
		Co-58	<1.50E+01	0.00E+00	1.50E+01
		Fe-59	<2.08E+01	0.00E+00	2.08E+01
		Co-60	<8.91E+00	0.00E+00	8.91E+00
		Zn-65	<2.65E+01	0.00E+00	2.65E+01
		Zr-95	<1.48E+01	0.00E+00	1.48E+01
		Nb-95	<1.46E+01	0.00E+00	1.46E+01
		I-131	<2.22E+01	0.00E+00	2.22E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<1.68E+01	0.00E+00	1.68E+01
		La-140	<6.20E+01	0.00E+00	6.20E+01
		Ba-140	<3.83E+01	0.00E+00	3.83E+01
		Total-Gam	0.00E+00		
		H3SW	<9.5E+00	0.00E+00	2.58E+02
451609	9/7/2017 - 9/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.38E+01	0.00E+00	1.38E+01
		Co-58	<1.09E+01	0.00E+00	1.09E+01
		Fe-59	<3.27E+01	0.00E+00	3.27E+01
		Co-60	<1.26E+01	0.00E+00	1.26E+01
		Zn-65	<2.18E+01	0.00E+00	2.18E+01
		Zr-95	<2.64E+01	0.00E+00	2.64E+01
		Nb-95	<1.09E+01	0.00E+00	1.09E+01
		I-131	<1.68E+01	0.00E+00	1.68E+01
		Cs-134	<1.45E+01	0.00E+00	1.45E+01
		Cs-137	<1.57E+01	0.00E+00	1.57E+01
		La-140	<1.20E+02	0.00E+00	1.20E+02
		Ba-140	<8.67E+01	0.00E+00	8.67E+01
		Total-Gam	0.00E+00		
		H3SW	<3.6E+01	0.00E+00	2.38E+02
461273	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.00E+00	0.00E+00	5.00E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

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

Sample ID:	461273	Sample Dates:	10/10/2017 - 10/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-58	<6.71E+00	0.00E+00	6.71E+00
				Fe-59	<9.50E+00	0.00E+00	9.50E+00
				Co-60	<5.15E+00	0.00E+00	5.15E+00
				Zn-65	<1.42E+01	0.00E+00	1.42E+01
				Zr-95	<1.05E+01	0.00E+00	1.05E+01
				Nb-95	<5.84E+00	0.00E+00	5.84E+00
				I-131	<5.69E+00	0.00E+00	5.69E+00
				Cs-134	<7.00E+00	0.00E+00	7.00E+00
				Cs-137	<5.91E+00	0.00E+00	5.91E+00
				BaLa-140	<7.96E+00	0.00E+00	7.96E+00
				Total-Gam	0.00E+00		
				H3SW	<9.9E+01	0.00E+00	2.03E+02
Sample ID:	461921	Sample Dates:	11/6/2017 - 11/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.71E+00	0.00E+00	5.71E+00
				Co-58	<5.47E+00	0.00E+00	5.47E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<8.09E+00	0.00E+00	8.09E+00
				Zn-65	<1.31E+01	0.00E+00	1.31E+01
				Zr-95	<1.06E+01	0.00E+00	1.06E+01
				Nb-95	<5.75E+00	0.00E+00	5.75E+00
				I-131	<6.07E+00	0.00E+00	6.07E+00
				Cs-134	<5.90E+00	0.00E+00	5.90E+00
				Cs-137	<5.14E+00	0.00E+00	5.14E+00
				BaLa-140	<7.10E+00	0.00E+00	7.10E+00
				Total-Gam	0.00E+00		
				H3SW	<2.4E+01	0.00E+00	1.79E+02
Sample ID:	464238	Sample Dates:	12/12/2017 - 12/12/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.13E+00	0.00E+00	6.13E+00
				Co-58	<5.70E+00	0.00E+00	5.70E+00
				Fe-59	<1.01E+01	0.00E+00	1.01E+01
				Co-60	<5.36E+00	0.00E+00	5.36E+00
				Zn-65	<9.86E+00	0.00E+00	9.86E+00
				Zr-95	<8.86E+00	0.00E+00	8.86E+00
				Nb-95	<6.66E+00	0.00E+00	6.66E+00
				I-131	<9.04E+00	0.00E+00	9.04E+00
				Cs-134	<6.46E+00	0.00E+00	6.46E+00
				Cs-137	<4.95E+00	0.00E+00	4.95E+00
				BaLa-140	<1.06E+01	0.00E+00	1.06E+01
				Total-Gam	0.00E+00		
				H3SW	<4.0E+01	0.00E+00	1.88E+02

Sample Point 610 [INDICATOR --- @ 0 miles]

Sample ID:	432862	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.1E+02	0.00E+00	2.53E+02
Sample ID:	433264	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.3E+03	0.00E+00	3.11E+02
Sample ID:	433681	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.16E+02	0.00E+00	2.58E+02
Sample ID:	434416	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<2.17E+02	0.00E+00	2.46E+02
Sample ID:	435060	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<7.7E+01	0.00E+00	2.51E+02
Sample ID:	435770	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.59E+02	0.00E+00	2.50E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 610 [INDICATOR -- @ 0 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
436220	2/14/2017 - 2/14/2017	H3SW	<1.27E+02	0.00E+00	2.47E+02
436671	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-4.1E+01	0.00E+00	2.44E+02
437532	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.9E+02	0.00E+00	2.43E+02
438262	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.18E+00	0.00E+00	2.35E+02
438765	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-8.5E+03	0.00E+00	5.66E+02
439108	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-8.6E+01	0.00E+00	2.50E+02
439961	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.6E+02	0.00E+00	2.55E+02
440533	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-3.3E+01	0.00E+00	2.28E+02
441373	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.54E+01	0.00E+00	2.26E+02
441784	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<3.10E+01	0.00E+00	2.38E+02
442231	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.83E+02	0.00E+00	2.34E+02
442822	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-1.6E+01	0.00E+00	2.43E+02
443260	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.05E+01	0.00E+00	2.41E+02
443818	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<6.78E+01	0.00E+00	2.33E+02
444212	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-4.3E+01	0.00E+00	2.45E+02
445282	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.38E+01	0.00E+00	2.31E+02
446281	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<2.59E+01	0.00E+00	2.32E+02
446785	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<1.5E+02	0.00E+00	2.41E+02
447111	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-4.0E+01	0.00E+00	2.42E+02
447764	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<5.07E+01	0.00E+00	2.25E+02
448228	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<-7.3E+01	0.00E+00	2.28E+02
448854	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<7.05E+01	0.00E+00	2.30E+02
449167	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
		H3SW	<4.57E+01	0.00E+00	2.36E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 610 [INDICATOR - - @ 0 miles]

Sample ID:	449904	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	<1.67E+02	0.00E+00	2.42E+02

Sample Point 1065 [INDICATOR - - @ 0 miles]

Sample ID:	432847	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<1.34E+01	0.00E+00	1.34E+01
				Fe-59	<4.06E+01	0.00E+00	4.06E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<2.15E+01	0.00E+00	2.15E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<1.14E+01	0.00E+00	1.14E+01
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<1.38E+01	0.00E+00	1.38E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<1.12E+01	0.00E+00	1.12E+01
				Ba-140	<4.20E+01	0.00E+00	4.20E+01
				Total-Gam	0.00E+00		

Sample ID:	433249	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.47E+01	0.00E+00	1.47E+01
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<3.05E+01	0.00E+00	3.05E+01
				Zr-95	<3.06E+01	0.00E+00	3.06E+01
				Nb-95	<1.52E+01	0.00E+00	1.52E+01
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<1.03E+01	0.00E+00	1.03E+01
				La-140	<1.97E+01	0.00E+00	1.97E+01
				Ba-140	<5.49E+01	0.00E+00	5.49E+01
				Total-Gam	0.00E+00		

Sample ID:	433666	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.60E+01	0.00E+00	1.60E+01
				Fe-59	<2.74E+01	0.00E+00	2.74E+01
				Co-60	<1.78E+01	0.00E+00	1.78E+01
				Zn-65	<4.04E+01	0.00E+00	4.04E+01
				Zr-95	<1.78E+01	0.00E+00	1.78E+01
				Nb-95	<1.16E+01	0.00E+00	1.16E+01
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<1.78E+01	0.00E+00	1.78E+01
				La-140	<2.12E+01	0.00E+00	2.12E+01
				Ba-140	<5.04E+01	0.00E+00	5.04E+01
				Total-Gam	0.00E+00		

Sample ID:	434401	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<1.34E+01	0.00E+00	1.34E+01
				Fe-59	<1.36E+01	0.00E+00	1.36E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<3.05E+01	0.00E+00	3.05E+01
				Zr-95	<2.16E+01	0.00E+00	2.16E+01
				Nb-95	<1.40E+01	0.00E+00	1.40E+01
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.20E+01	0.00E+00	1.20E+01
				Ba-140	<4.24E+01	0.00E+00	4.24E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	435045	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.37E+01	0.00E+00	1.37E+01				
Co-58	<1.21E+01	0.00E+00	1.21E+01				
Fe-59	<2.75E+01	0.00E+00	2.75E+01				
Co-60	<8.91E+00	0.00E+00	8.91E+00				
Zn-65	<3.05E+01	0.00E+00	3.05E+01				
Zr-95	<1.46E+01	0.00E+00	1.46E+01				
Nb-95	<1.75E+01	0.00E+00	1.75E+01				
I-131	<1.74E+01	0.00E+00	1.74E+01				
Cs-134	<1.18E+01	0.00E+00	1.18E+01				
Cs-137	<1.33E+01	0.00E+00	1.33E+01				
La-140	<1.68E+01	0.00E+00	1.68E+01				
Ba-140	<4.43E+01	0.00E+00	4.43E+01				
Total-Gam	0.00E+00						
Sample ID:	435755	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.21E+01	0.00E+00	1.21E+01				
Fe-59	<3.07E+01	0.00E+00	3.07E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<3.05E+01	0.00E+00	3.05E+01				
Zr-95	<2.30E+01	0.00E+00	2.30E+01				
Nb-95	<1.64E+01	0.00E+00	1.64E+01				
I-131	<1.56E+01	0.00E+00	1.56E+01				
Cs-134	<1.27E+01	0.00E+00	1.27E+01				
Cs-137	<8.40E+00	0.00E+00	8.40E+00				
La-140	<1.58E+01	0.00E+00	1.58E+01				
Ba-140	<3.59E+01	0.00E+00	3.59E+01				
Total-Gam	0.00E+00						
Sample ID:	436205	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<8.67E+00	0.00E+00	8.67E+00				
Co-58	<1.62E+01	0.00E+00	1.62E+01				
Fe-59	<2.41E+01	0.00E+00	2.41E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<3.06E+01	0.00E+00	3.06E+01				
Zr-95	<1.80E+01	0.00E+00	1.80E+01				
Nb-95	<1.57E+01	0.00E+00	1.57E+01				
I-131	<1.37E+01	0.00E+00	1.37E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.03E+01	0.00E+00	1.03E+01				
La-140	<4.17E+01	0.00E+00	4.17E+01				
Ba-140	<5.02E+01	0.00E+00	5.02E+01				
Total-Gam	0.00E+00						
Sample ID:	436656	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.60E+01	0.00E+00	1.60E+01				
Fe-59	<2.74E+01	0.00E+00	2.74E+01				
Co-60	<1.80E+01	0.00E+00	1.80E+01				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.52E+01	0.00E+00	2.52E+01				
Nb-95	<1.54E+01	0.00E+00	1.54E+01				
I-131	<1.86E+01	0.00E+00	1.86E+01				
Cs-134	<1.60E+01	0.00E+00	1.60E+01				
Cs-137	<1.19E+01	0.00E+00	1.19E+01				
La-140	<2.70E+01	0.00E+00	2.70E+01				
Ba-140	<5.07E+01	0.00E+00	5.07E+01				
Total-Gam	0.00E+00						
Sample ID:	437517	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.70E+01	0.00E+00	1.70E+01				
Fe-59	<2.35E+01	0.00E+00	2.35E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	437517	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<1.77E+01	0.00E+00	1.77E+01
				Nb-95	<1.28E+01	0.00E+00	1.28E+01
				I-131	<1.57E+01	0.00E+00	1.57E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.66E+01	0.00E+00	1.66E+01
				Ba-140	<4.23E+01	0.00E+00	4.23E+01
				Total-Gam	0.00E+00		
Sample ID:	438247	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<8.55E+00	0.00E+00	8.55E+00
				Fe-59	<2.04E+01	0.00E+00	2.04E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<4.04E+01	0.00E+00	4.04E+01
				Zr-95	<1.03E+01	0.00E+00	1.03E+01
				Nb-95	<1.16E+01	0.00E+00	1.16E+01
				I-131	<1.24E+01	0.00E+00	1.24E+01
				Cs-134	<1.19E+01	0.00E+00	1.19E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<2.61E+01	0.00E+00	2.61E+01
				Ba-140	<4.72E+01	0.00E+00	4.72E+01
				Total-Gam	0.00E+00		
Sample ID:	439280	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Total-Gam	0.00E+00		
Sample ID:	439093	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<6.04E+00	0.00E+00	6.04E+00
				Fe-59	<2.03E+01	0.00E+00	2.03E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<3.41E+01	0.00E+00	3.41E+01
				Zr-95	<1.77E+01	0.00E+00	1.77E+01
				Nb-95	<2.16E+01	0.00E+00	2.16E+01
				I-131	<1.00E+01	0.00E+00	1.00E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<5.94E+00	0.00E+00	5.94E+00
				La-140	<2.90E+01	0.00E+00	2.90E+01
				Ba-140	<5.02E+01	0.00E+00	5.02E+01
				Total-Gam	0.00E+00		
Sample ID:	439946	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.90E+01	0.00E+00	1.90E+01
				Fe-59	<2.35E+01	0.00E+00	2.35E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<4.03E+01	0.00E+00	4.03E+01
				Zr-95	<1.25E+01	0.00E+00	1.25E+01
				Nb-95	<1.81E+01	0.00E+00	1.81E+01
				I-131	<1.10E+01	0.00E+00	1.10E+01
				Cs-134	<1.44E+01	0.00E+00	1.44E+01
				Cs-137	<1.88E+01	0.00E+00	1.88E+01
				La-140	<1.97E+01	0.00E+00	1.97E+01
				Ba-140	<3.44E+01	0.00E+00	3.44E+01
				Total-Gam	0.00E+00		
Sample ID:	440518	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.65E+00	0.00E+00	8.65E+00
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<4.11E+01	0.00E+00	4.11E+01
				Co-60	<1.97E+01	0.00E+00	1.97E+01
				Zn-65	<3.05E+01	0.00E+00	3.05E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	440518	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
Zr-95	<2.91E+01	0.00E+00	2.91E+01				
Nb-95	<1.30E+01	0.00E+00	1.30E+01				
I-131	<1.89E+01	0.00E+00	1.89E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.68E+01	0.00E+00	1.68E+01				
La-140	<2.13E+01	0.00E+00	2.13E+01				
Ba-140	<4.72E+01	0.00E+00	4.72E+01				
Total-Gam	0.00E+00						
Sample ID:	441358	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.04E+01	0.00E+00	1.04E+01				
Fe-59	<2.71E+01	0.00E+00	2.71E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.70E+01	0.00E+00	2.70E+01				
Nb-95	<1.15E+01	0.00E+00	1.15E+01				
I-131	<1.30E+01	0.00E+00	1.30E+01				
Cs-134	<1.18E+01	0.00E+00	1.18E+01				
Cs-137	<1.46E+01	0.00E+00	1.46E+01				
La-140	<2.62E+01	0.00E+00	2.62E+01				
Ba-140	<2.99E+01	0.00E+00	2.99E+01				
Total-Gam	0.00E+00						
Sample ID:	441769	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.62E+01	0.00E+00	1.62E+01				
Co-58	<1.48E+01	0.00E+00	1.48E+01				
Fe-59	<2.04E+01	0.00E+00	2.04E+01				
Co-60	<1.54E+01	0.00E+00	1.54E+01				
Zn-65	<2.16E+01	0.00E+00	2.16E+01				
Zr-95	<2.72E+01	0.00E+00	2.72E+01				
Nb-95	<1.83E+01	0.00E+00	1.83E+01				
I-131	<1.31E+01	0.00E+00	1.31E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.33E+01	0.00E+00	1.33E+01				
La-140	<2.17E+01	0.00E+00	2.17E+01				
Ba-140	<4.73E+01	0.00E+00	4.73E+01				
Total-Gam	0.00E+00						
Sample ID:	442216	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.37E+01	0.00E+00	1.37E+01				
Co-58	<1.35E+01	0.00E+00	1.35E+01				
Fe-59	<1.92E+01	0.00E+00	1.92E+01				
Co-60	<8.05E+00	0.00E+00	8.05E+00				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.50E+01	0.00E+00	2.50E+01				
Nb-95	<1.62E+01	0.00E+00	1.62E+01				
I-131	<1.63E+01	0.00E+00	1.63E+01				
Cs-134	<1.18E+01	0.00E+00	1.18E+01				
Cs-137	<1.03E+01	0.00E+00	1.03E+01				
La-140	<2.14E+01	0.00E+00	2.14E+01				
Ba-140	<4.60E+01	0.00E+00	4.60E+01				
Total-Gam	0.00E+00						
Sample ID:	442807	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.37E+01	0.00E+00	1.37E+01				
Co-58	<8.55E+00	0.00E+00	8.55E+00				
Fe-59	<1.37E+01	0.00E+00	1.37E+01				
Co-60	<1.26E+01	0.00E+00	1.26E+01				
Zn-65	<4.32E+01	0.00E+00	4.32E+01				
Zr-95	<2.06E+01	0.00E+00	2.06E+01				
Nb-95	<1.92E+01	0.00E+00	1.92E+01				
I-131	<1.37E+01	0.00E+00	1.37E+01				
Cs-134	<1.36E+01	0.00E+00	1.36E+01				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	442807	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.78E+01	0.00E+00	1.78E+01
				La-140	<2.15E+01	0.00E+00	2.15E+01
				Ba-140	<4.37E+01	0.00E+00	4.37E+01
				Total-Gam	0.00E+00		
Sample ID:	443245	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<3.49E+01	0.00E+00	3.49E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<2.15E+01	0.00E+00	2.15E+01
				Zr-95	<2.50E+01	0.00E+00	2.50E+01
				Nb-95	<1.51E+01	0.00E+00	1.51E+01
				I-131	<1.56E+01	0.00E+00	1.56E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.62E+01	0.00E+00	1.62E+01
				Ba-140	<5.44E+01	0.00E+00	5.44E+01
				Total-Gam	0.00E+00		
Sample ID:	443803	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<6.00E+00	0.00E+00	6.00E+00
				Fe-59	<1.35E+01	0.00E+00	1.35E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<3.41E+01	0.00E+00	3.41E+01
				Zr-95	<3.05E+01	0.00E+00	3.05E+01
				Nb-95	<1.51E+01	0.00E+00	1.51E+01
				I-131	<1.35E+01	0.00E+00	1.35E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<5.94E+00	0.00E+00	5.94E+00
				La-140	<1.13E+01	0.00E+00	1.13E+01
				Ba-140	<4.21E+01	0.00E+00	4.21E+01
				Total-Gam	0.00E+00		
Sample ID:	444197	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.39E+01	0.00E+00	1.39E+01
				Co-58	<1.14E+01	0.00E+00	1.14E+01
				Fe-59	<2.33E+01	0.00E+00	2.33E+01
				Co-60	<1.40E+01	0.00E+00	1.40E+01
				Zn-65	<2.21E+01	0.00E+00	2.21E+01
				Zr-95	<2.76E+01	0.00E+00	2.76E+01
				Nb-95	<2.17E+01	0.00E+00	2.17E+01
				I-131	<2.85E+01	0.00E+00	2.85E+01
				Cs-134	<1.55E+01	0.00E+00	1.55E+01
				Cs-137	<1.97E+01	0.00E+00	1.97E+01
				La-140	<7.20E+02	0.00E+00	7.20E+02
				Ba-140	<6.93E+01	0.00E+00	6.93E+01
				Total-Gam	0.00E+00		
Sample ID:	445267	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.86E+01	0.00E+00	1.86E+01
				Co-58	<1.56E+01	0.00E+00	1.56E+01
				Fe-59	<2.57E+01	0.00E+00	2.57E+01
				Co-60	<8.06E+00	0.00E+00	8.06E+00
				Zn-65	<3.79E+01	0.00E+00	3.79E+01
				Zr-95	<2.67E+01	0.00E+00	2.67E+01
				Nb-95	<1.82E+01	0.00E+00	1.82E+01
				I-131	<1.94E+01	0.00E+00	1.94E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.31E+02	0.00E+00	1.31E+02
				Ba-140	<8.20E+01	0.00E+00	8.20E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	446266	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<8.50E+00	0.00E+00	8.50E+00
				Fe-59	<1.36E+01	0.00E+00	1.36E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<3.73E+01	0.00E+00	3.73E+01
				Zr-95	<3.23E+01	0.00E+00	3.23E+01
				Nb-95	<1.81E+01	0.00E+00	1.81E+01
				I-131	<1.57E+01	0.00E+00	1.57E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.19E+01	0.00E+00	1.19E+01
				Ba-140	<4.89E+01	0.00E+00	4.89E+01
				Total-Gam	0.00E+00		
Sample ID:	446770	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<8.57E+00	0.00E+00	8.57E+00
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.52E+01	0.00E+00	2.52E+01
				Nb-95	<1.75E+01	0.00E+00	1.75E+01
				I-131	<1.03E+01	0.00E+00	1.03E+01
				Cs-134	<1.27E+01	0.00E+00	1.27E+01
				Cs-137	<1.57E+01	0.00E+00	1.57E+01
				La-140	<2.84E+01	0.00E+00	2.84E+01
				Ba-140	<4.42E+01	0.00E+00	4.42E+01
				Total-Gam	0.00E+00		
Sample ID:	447096	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<1.90E+01	0.00E+00	1.90E+01
				Fe-59	<3.32E+01	0.00E+00	3.32E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<1.52E+01	0.00E+00	1.52E+01
				Zr-95	<2.28E+01	0.00E+00	2.28E+01
				Nb-95	<1.14E+01	0.00E+00	1.14E+01
				I-131	<9.56E+00	0.00E+00	9.56E+00
				Cs-134	<9.72E+00	0.00E+00	9.73E+00
				Cs-137	<1.57E+01	0.00E+00	1.57E+01
				La-140	<1.63E+01	0.00E+00	1.63E+01
				Ba-140	<5.44E+01	0.00E+00	5.44E+01
				Total-Gam	0.00E+00		
Sample ID:	447749	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<2.71E+01	0.00E+00	2.71E+01
				Co-60	<1.61E+01	0.00E+00	1.61E+01
				Zn-65	<2.15E+01	0.00E+00	2.15E+01
				Zr-95	<2.70E+01	0.00E+00	2.70E+01
				Nb-95	<9.89E+00	0.00E+00	9.89E+00
				I-131	<1.40E+01	0.00E+00	1.40E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<3.11E+01	0.00E+00	3.11E+01
				Ba-140	<4.85E+01	0.00E+00	4.85E+01
				Total-Gam	0.00E+00		
Sample ID:	448213	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.59E+01	0.00E+00	1.59E+01
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1065 [INDICATOR - @ 0 miles]

Sample ID:	448213	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
Zn-65	<3.41E+01	0.00E+00	3.41E+01				
Zr-95	<2.49E+01	0.00E+00	2.49E+01				
Nb-95	<1.40E+01	0.00E+00	1.40E+01				
I-131	<1.30E+01	0.00E+00	1.30E+01				
Cs-134	<1.27E+01	0.00E+00	1.27E+01				
Cs-137	<1.68E+01	0.00E+00	1.68E+01				
La-140	<2.82E+01	0.00E+00	2.82E+01				
Ba-140	<4.88E+01	0.00E+00	4.88E+01				
Total-Gam	0.00E+00						

Sample ID:	448839	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.34E+01	0.00E+00	1.34E+01				
Fe-59	<1.36E+01	0.00E+00	1.36E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<3.73E+01	0.00E+00	3.73E+01				
Zr-95	<2.79E+01	0.00E+00	2.79E+01				
Nb-95	<1.62E+01	0.00E+00	1.62E+01				
I-131	<1.47E+01	0.00E+00	1.47E+01				
Cs-134	<1.54E+01	0.00E+00	1.54E+01				
Cs-137	<1.68E+01	0.00E+00	1.68E+01				
La-140	<2.69E+01	0.00E+00	2.69E+01				
Ba-140	<4.57E+01	0.00E+00	4.57E+01				
Total-Gam	0.00E+00						

Sample ID:	449152	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<8.65E+00	0.00E+00	8.65E+00				
Co-58	<8.56E+00	0.00E+00	8.56E+00				
Fe-59	<2.89E+01	0.00E+00	2.89E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<3.05E+01	0.00E+00	3.05E+01				
Zr-95	<2.06E+01	0.00E+00	2.06E+01				
Nb-95	<1.64E+01	0.00E+00	1.64E+01				
I-131	<1.25E+01	0.00E+00	1.25E+01				
Cs-134	<1.60E+01	0.00E+00	1.60E+01				
Cs-137	<2.22E+01	0.00E+00	2.22E+01				
La-140	<2.23E+01	0.00E+00	2.23E+01				
Ba-140	<5.67E+01	0.00E+00	5.67E+01				
Total-Gam	0.00E+00						

Sample ID:	449889	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.47E+01	0.00E+00	1.47E+01				
Fe-59	<2.71E+01	0.00E+00	2.71E+01				
Co-60	<1.54E+01	0.00E+00	1.54E+01				
Zn-65	<3.41E+01	0.00E+00	3.41E+01				
Zr-95	<1.76E+01	0.00E+00	1.76E+01				
Nb-95	<1.51E+01	0.00E+00	1.51E+01				
I-131	<1.30E+01	0.00E+00	1.30E+01				
Cs-134	<1.18E+01	0.00E+00	1.18E+01				
Cs-137	<1.46E+01	0.00E+00	1.46E+01				
La-140	<2.32E+01	0.00E+00	2.32E+01				
Ba-140	<4.56E+01	0.00E+00	4.56E+01				
Total-Gam	0.00E+00						

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	432848	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.50E+01	0.00E+00	1.50E+01				
Co-58	<8.55E+00	0.00E+00	8.55E+00				
Fe-59	<2.74E+01	0.00E+00	2.74E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<3.74E+01	0.00E+00	3.74E+01				
Zr-95	<1.26E+01	0.00E+00	1.26E+01				
Total-Gam	0.00E+00						

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	432848	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<1.64E+01	0.00E+00	1.64E+01
				I-131	<1.02E+01	0.00E+00	1.02E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.03E+01	0.00E+00	1.03E+01
				La-140	<1.53E+01	0.00E+00	1.53E+01
				Ba-140	<4.38E+01	0.00E+00	4.38E+01
				Total-Gam	0.00E+00		
Sample ID:	433250	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<4.31E+01	0.00E+00	4.31E+01
				Zr-95	<2.29E+01	0.00E+00	2.29E+01
				Nb-95	<1.62E+01	0.00E+00	1.62E+01
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<9.62E+00	0.00E+00	9.62E+00
				Cs-137	<1.88E+01	0.00E+00	1.88E+01
				La-140	<3.14E+01	0.00E+00	3.14E+01
				Ba-140	<4.60E+01	0.00E+00	4.60E+01
				Total-Gam	0.00E+00		
Sample ID:	433667	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.05E+01	0.00E+00	1.05E+01
				Fe-59	<2.37E+01	0.00E+00	2.37E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<1.45E+01	0.00E+00	1.45E+01
				Nb-95	<1.42E+01	0.00E+00	1.42E+01
				I-131	<1.49E+01	0.00E+00	1.50E+01
				Cs-134	<1.19E+01	0.00E+00	1.19E+01
				Cs-137	<1.03E+01	0.00E+00	1.03E+01
				La-140	<4.29E+01	0.00E+00	4.29E+01
				Ba-140	<5.65E+01	0.00E+00	5.65E+01
				Total-Gam	0.00E+00		
Sample ID:	434402	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.59E+01	0.00E+00	1.59E+01
				Fe-59	<2.86E+01	0.00E+00	2.86E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<1.76E+01	0.00E+00	1.76E+01
				Nb-95	<9.93E+00	0.00E+00	9.93E+00
				I-131	<1.53E+01	0.00E+00	1.53E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<1.78E+01	0.00E+00	1.78E+01
				La-140	<2.09E+01	0.00E+00	2.09E+01
				Ba-140	<5.48E+01	0.00E+00	5.48E+01
				Total-Gam	0.00E+00		
Sample ID:	435046	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.22E+01	0.00E+00	1.22E+01
				Fe-59	<2.07E+01	0.00E+00	2.07E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<3.06E+01	0.00E+00	3.06E+01
				Zr-95	<1.47E+01	0.00E+00	1.47E+01
				Nb-95	<1.33E+01	0.00E+00	1.33E+01
				I-131	<1.02E+01	0.00E+00	1.02E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<8.40E+00	0.00E+00	8.41E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	435046	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				La-140	<4.22E+01	0.00E+00	4.22E+01
				Ba-140	<4.25E+01	0.00E+00	4.25E+01
				Total-Gam	0.00E+00		
Sample ID:	435756	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<1.37E+01	0.00E+00	1.37E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<1.26E+01	0.00E+00	1.26E+01
				Nb-95	<1.42E+01	0.00E+00	1.42E+01
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.26E+01	0.00E+00	2.26E+01
				Ba-140	<5.68E+01	0.00E+00	5.68E+01
				Total-Gam	0.00E+00		
Sample ID:	436206	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.23E+01	0.00E+00	1.23E+01
				Co-58	<1.37E+01	0.00E+00	1.37E+01
				Fe-59	<2.41E+01	0.00E+00	2.41E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<2.17E+01	0.00E+00	2.17E+01
				Zr-95	<1.80E+01	0.00E+00	1.80E+01
				Nb-95	<1.45E+01	0.00E+00	1.45E+01
				I-131	<1.77E+01	0.00E+00	1.77E+01
				Cs-134	<1.27E+01	0.00E+00	1.27E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<4.94E+01	0.00E+00	4.94E+01
				Ba-140	<4.66E+01	0.00E+00	4.66E+01
				Total-Gam	0.00E+00		
Sample ID:	436657	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<2.04E+01	0.00E+00	2.04E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.06E+01	0.00E+00	2.06E+01
				Nb-95	<1.42E+01	0.00E+00	1.42E+01
				I-131	<1.50E+01	0.00E+00	1.50E+01
				Cs-134	<1.27E+01	0.00E+00	1.27E+01
				Cs-137	<8.40E+00	0.00E+00	8.40E+00
				La-140	<2.72E+01	0.00E+00	2.72E+01
				Ba-140	<4.74E+01	0.00E+00	4.74E+01
				Total-Gam	0.00E+00		
Sample ID:	437518	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<1.34E+01	0.00E+00	1.34E+01
				Fe-59	<2.02E+01	0.00E+00	2.02E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<3.41E+01	0.00E+00	3.41E+01
				Zr-95	<2.04E+01	0.00E+00	2.04E+01
				Nb-95	<9.92E+00	0.00E+00	9.92E+00
				I-131	<1.30E+01	0.00E+00	1.30E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<1.65E+01	0.00E+00	1.65E+01
				Ba-140	<5.18E+01	0.00E+00	5.18E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	438248	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<1.61E+01	0.00E+00	1.61E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<1.45E+01	0.00E+00	1.45E+01
				Nb-95	<1.53E+01	0.00E+00	1.53E+01
				I-131	<1.43E+01	0.00E+00	1.43E+01
				Cs-134	<9.63E+00	0.00E+00	9.63E+00
				Cs-137	<1.57E+01	0.00E+00	1.57E+01
				La-140	<2.16E+01	0.00E+00	2.16E+01
				Ba-140	<5.92E+01	0.00E+00	5.92E+01
				Total-Gam	0.00E+00		
Sample ID:	439281	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Total-Gam	0.00E+00		
Sample ID:	439094	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.65E+00	0.00E+00	8.65E+00
				Co-58	<8.54E+00	0.00E+00	8.54E+00
				Fe-59	<3.35E+01	0.00E+00	3.35E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.05E+01	0.00E+00	2.05E+01
				Nb-95	<1.92E+01	0.00E+00	1.92E+01
				I-131	<1.59E+01	0.00E+00	1.59E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.06E+01	0.00E+00	2.06E+01
				Ba-140	<4.70E+01	0.00E+00	4.70E+01
				Total-Gam	0.00E+00		
Sample ID:	439947	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.59E+01	0.00E+00	1.59E+01
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.49E+01	0.00E+00	2.49E+01
				Nb-95	<1.62E+01	0.00E+00	1.62E+01
				I-131	<1.66E+01	0.00E+00	1.66E+01
				Cs-134	<1.27E+01	0.00E+00	1.27E+01
				Cs-137	<1.46E+01	0.00E+00	1.46E+01
				La-140	<2.35E+01	0.00E+00	2.35E+01
				Ba-140	<5.46E+01	0.00E+00	5.46E+01
				Total-Gam	0.00E+00		
Sample ID:	440519	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<8.56E+00	0.00E+00	8.56E+00
				Fe-59	<2.89E+01	0.00E+00	2.89E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<1.78E+01	0.00E+00	1.78E+01
				Nb-95	<1.64E+01	0.00E+00	1.64E+01
				I-131	<2.00E+01	0.00E+00	2.00E+01
				Cs-134	<1.54E+01	0.00E+00	1.54E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<2.21E+01	0.00E+00	2.21E+01
				Ba-140	<5.07E+01	0.00E+00	5.07E+01
				Total-Gam	0.00E+00		
Sample ID:	441359	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	441359	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Co-58	<8.50E+00	0.00E+00	8.50E+00
				Fe-59	<2.35E+01	0.00E+00	2.35E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.89E+01	0.00E+00	2.89E+01
				Nb-95	<1.90E+01	0.00E+00	1.90E+01
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.63E+01	0.00E+00	2.63E+01
				Ba-140	<4.88E+01	0.00E+00	4.88E+01
				Total-Gam	0.00E+00		

Sample ID:	441770	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<1.21E+01	0.00E+00	1.21E+01
				Fe-59	<3.36E+01	0.00E+00	3.36E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<3.05E+01	0.00E+00	3.05E+01
				Zr-95	<2.06E+01	0.00E+00	2.06E+01
				Nb-95	<1.54E+01	0.00E+00	1.54E+01
				I-131	<1.50E+01	0.00E+00	1.50E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<2.19E+01	0.00E+00	2.19E+01
				Ba-140	<4.74E+01	0.00E+00	4.74E+01
				Total-Gam	0.00E+00		

Sample ID:	442217	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.12E+00	0.00E+00	6.12E+00
				Co-58	<1.36E+01	0.00E+00	1.36E+01
				Fe-59	<2.89E+01	0.00E+00	2.89E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<3.09E+01	0.00E+00	3.09E+01
				Nb-95	<1.43E+01	0.00E+00	1.43E+01
				I-131	<1.79E+01	0.00E+00	1.79E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.78E+01	0.00E+00	1.78E+01
				La-140	<2.89E+01	0.00E+00	2.89E+01
				Ba-140	<3.13E+01	0.00E+00	3.13E+01
				Total-Gam	0.00E+00		

Sample ID:	442808	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<2.74E+01	0.00E+00	2.74E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<3.41E+01	0.00E+00	3.41E+01
				Zr-95	<2.72E+01	0.00E+00	2.72E+01
				Nb-95	<2.09E+01	0.00E+00	2.09E+01
				I-131	<1.37E+01	0.00E+00	1.37E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.57E+01	0.00E+00	1.57E+01
				La-140	<1.54E+01	0.00E+00	1.54E+01
				Ba-140	<5.36E+01	0.00E+00	5.36E+01
				Total-Gam	0.00E+00		

Sample ID:	443246	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<1.04E+01	0.00E+00	1.04E+01
				Fe-59	<2.71E+01	0.00E+00	2.71E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<2.15E+01	0.00E+00	2.15E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	443246	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
Zr-95	<2.04E+01	0.00E+00	2.04E+01				
Nb-95	<1.62E+01	0.00E+00	1.62E+01				
I-131	<1.17E+01	0.00E+00	1.17E+01				
Cs-134	<1.36E+01	0.00E+00	1.36E+01				
Cs-137	<1.46E+01	0.00E+00	1.46E+01				
La-140	<2.32E+01	0.00E+00	2.32E+01				
Ba-140	<4.22E+01	0.00E+00	4.22E+01				
Total-Gam	0.00E+00						

Sample ID:	443804	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.60E+01	0.00E+00	1.60E+01				
Fe-59	<2.74E+01	0.00E+00	2.74E+01				
Co-60	<1.26E+01	0.00E+00	1.26E+01				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.51E+01	0.00E+00	2.51E+01				
Nb-95	<1.30E+01	0.00E+00	1.30E+01				
I-131	<8.32E+00	0.00E+00	8.32E+00				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<0.00E+00	0.00E+00	0.00E+00				
La-140	<4.53E+01	0.00E+00	4.53E+01				
Ba-140	<4.39E+01	0.00E+00	4.39E+01				
Total-Gam	0.00E+00						

Sample ID:	444198	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.39E+01	0.00E+00	1.39E+01				
Co-58	<1.14E+01	0.00E+00	1.14E+01				
Fe-59	<3.12E+01	0.00E+00	3.12E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<1.56E+01	0.00E+00	1.56E+01				
Zr-95	<2.38E+01	0.00E+00	2.38E+01				
Nb-95	<1.81E+01	0.00E+00	1.81E+01				
I-131	<1.93E+01	0.00E+00	1.93E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.33E+01	0.00E+00	1.33E+01				
La-140	<7.24E+02	0.00E+00	7.24E+02				
Ba-140	<6.33E+01	0.00E+00	6.33E+01				
Total-Gam	0.00E+00						

Sample ID:	445268	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.24E+01	0.00E+00	1.24E+01				
Co-58	<1.42E+01	0.00E+00	1.42E+01				
Fe-59	<3.63E+01	0.00E+00	3.63E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<3.46E+01	0.00E+00	3.46E+01				
Zr-95	<1.33E+01	0.00E+00	1.33E+01				
Nb-95	<1.11E+01	0.00E+00	1.11E+01				
I-131	<2.22E+01	0.00E+00	2.22E+01				
Cs-134	<6.84E+00	0.00E+00	6.84E+00				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<1.25E+02	0.00E+00	1.25E+02				
Ba-140	<4.70E+01	0.00E+00	4.70E+01				
Total-Gam	0.00E+00						

Sample ID:	446267	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.20E+01	0.00E+00	1.20E+01				
Fe-59	<2.35E+01	0.00E+00	2.35E+01				
Co-60	<1.61E+01	0.00E+00	1.61E+01				
Zn-65	<1.52E+01	0.00E+00	1.52E+01				
Zr-95	<1.45E+01	0.00E+00	1.45E+01				
Nb-95	<1.99E+01	0.00E+00	1.99E+01				
I-131	<1.72E+01	0.00E+00	1.72E+01				
Cs-134	<1.18E+01	0.00E+00	1.18E+01				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	446267	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.08E+01	0.00E+00	2.08E+01
				Ba-140	<6.00E+01	0.00E+00	6.00E+01
				Total-Gam	0.00E+00		
Sample ID:	446771	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<8.57E+00	0.00E+00	8.57E+00
				Fe-59	<2.75E+01	0.00E+00	2.75E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<3.41E+01	0.00E+00	3.41E+01
				Zr-95	<2.91E+01	0.00E+00	2.91E+01
				Nb-95	<1.43E+01	0.00E+00	1.43E+01
				I-131	<1.40E+01	0.00E+00	1.40E+01
				Cs-134	<9.63E+00	0.00E+00	9.63E+00
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.86E+01	0.00E+00	2.86E+01
				Ba-140	<5.10E+01	0.00E+00	5.10E+01
				Total-Gam	0.00E+00		
Sample ID:	447097	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<2.71E+01	0.00E+00	2.71E+01
				Co-60	<1.54E+01	0.00E+00	1.54E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.70E+01	0.00E+00	2.70E+01
				Nb-95	<1.40E+01	0.00E+00	1.40E+01
				I-131	<1.41E+01	0.00E+00	1.41E+01
				Cs-134	<8.33E+00	0.00E+00	8.33E+00
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<2.00E+01	0.00E+00	2.00E+01
				Ba-140	<2.44E+01	0.00E+00	2.44E+01
				Total-Gam	0.00E+00		
Sample ID:	447750	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<8.49E+00	0.00E+00	8.49E+00
				Fe-59	<2.85E+01	0.00E+00	2.85E+01
				Co-60	<1.61E+01	0.00E+00	1.61E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<3.05E+01	0.00E+00	3.05E+01
				Nb-95	<1.28E+01	0.00E+00	1.28E+01
				I-131	<1.29E+01	0.00E+00	1.29E+01
				Cs-134	<1.54E+01	0.00E+00	1.54E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<1.12E+01	0.00E+00	1.12E+01
				Ba-140	<5.15E+01	0.00E+00	5.15E+01
				Total-Gam	0.00E+00		
Sample ID:	448214	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.34E+01	0.00E+00	1.34E+01
				Fe-59	<2.35E+01	0.00E+00	2.35E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.15E+01	0.00E+00	2.15E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<1.28E+01	0.00E+00	1.28E+01
				I-131	<1.57E+01	0.00E+00	1.57E+01
				Cs-134	<1.98E+01	0.00E+00	1.98E+01
				Cs-137	<1.03E+01	0.00E+00	1.03E+01
				La-140	<1.91E+01	0.00E+00	1.91E+01
				Ba-140	<5.18E+01	0.00E+00	5.18E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1066 [INDICATOR - @ 0 miles]

Sample ID:	448840	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.05E+01	0.00E+00	1.05E+01				
Fe-59	<2.04E+01	0.00E+00	2.04E+01				
Co-60	<1.26E+01	0.00E+00	1.26E+01				
Zn-65	<1.53E+01	0.00E+00	1.53E+01				
Zr-95	<2.18E+01	0.00E+00	2.18E+01				
Nb-95	<1.84E+01	0.00E+00	1.84E+01				
I-131	<1.72E+01	0.00E+00	1.72E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<2.21E+01	0.00E+00	2.21E+01				
Ba-140	<5.67E+01	0.00E+00	5.67E+01				
Total-Gam	0.00E+00						

Sample ID:	449153	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.48E+01	0.00E+00	1.48E+01				
Fe-59	<3.06E+01	0.00E+00	3.06E+01				
Co-60	<8.91E+00	0.00E+00	8.91E+00				
Zn-65	<2.16E+01	0.00E+00	2.16E+01				
Zr-95	<1.78E+01	0.00E+00	1.78E+01				
Nb-95	<1.42E+01	0.00E+00	1.42E+01				
I-131	<1.30E+01	0.00E+00	1.30E+01				
Cs-134	<1.38E+01	0.00E+00	1.38E+01				
Cs-137	<1.03E+01	0.00E+00	1.03E+01				
La-140	<3.63E+01	0.00E+00	3.63E+01				
Ba-140	<5.35E+01	0.00E+00	5.35E+01				
Total-Gam	0.00E+00						

Sample ID:	449890	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.21E+01	0.00E+00	1.21E+01				
Fe-59	<2.38E+01	0.00E+00	2.38E+01				
Co-60	<8.05E+00	0.00E+00	8.05E+00				
Zn-65	<3.41E+01	0.00E+00	3.41E+01				
Zr-95	<3.09E+01	0.00E+00	3.09E+01				
Nb-95	<1.42E+01	0.00E+00	1.42E+01				
I-131	<1.63E+01	0.00E+00	1.63E+01				
Cs-134	<1.08E+01	0.00E+00	1.08E+01				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<2.30E+01	0.00E+00	2.30E+01				
Ba-140	<4.03E+01	0.00E+00	4.03E+01				
Total-Gam	0.00E+00						

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	432849	Sample Dates:	1/4/2017 - 1/4/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.93E+01	0.00E+00	1.93E+01				
Co-58	<1.21E+01	0.00E+00	1.21E+01				
Fe-59	<2.37E+01	0.00E+00	2.37E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<3.74E+01	0.00E+00	3.74E+01				
Zr-95	<2.51E+01	0.00E+00	2.51E+01				
Nb-95	<1.42E+01	0.00E+00	1.42E+01				
I-131	<9.31E+00	0.00E+00	9.31E+00				
Cs-134	<1.19E+01	0.00E+00	1.19E+01				
Cs-137	<1.19E+01	0.00E+00	1.19E+01				
La-140	<2.71E+01	0.00E+00	2.71E+01				
Ba-140	<3.58E+01	0.00E+00	3.58E+01				
Total-Gam	0.00E+00						

Sample ID:	433251	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.05E+01	0.00E+00	1.05E+01				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	433251	Sample Dates:	1/10/2017 - 1/10/2017	Nuclide	Activity	2 Sigma Error	MDA
				Fe-59	<2.05E+01	0.00E+00	2.05E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<2.73E+01	0.00E+00	2.73E+01
				Nb-95	<1.65E+01	0.00E+00	1.65E+01
				I-131	<1.04E+01	0.00E+00	1.04E+01
				Cs-134	<9.63E+00	0.00E+00	9.63E+00
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.81E+01	0.00E+00	2.81E+01
				Ba-140	<4.81E+01	0.00E+00	4.81E+01
				Total-Gam	0.00E+00		
Sample ID:	433668	Sample Dates:	1/17/2017 - 1/17/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.60E+01	0.00E+00	1.60E+01
				Fe-59	<2.89E+01	0.00E+00	2.89E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<3.74E+01	0.00E+00	3.74E+01
				Zr-95	<2.18E+01	0.00E+00	2.18E+01
				Nb-95	<1.01E+01	0.00E+00	1.01E+01
				I-131	<1.67E+01	0.00E+00	1.67E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<2.25E+01	0.00E+00	2.25E+01
				Ba-140	<4.75E+01	0.00E+00	4.75E+01
				Total-Gam	0.00E+00		
Sample ID:	434403	Sample Dates:	1/25/2017 - 1/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.12E+01	0.00E+00	2.12E+01
				Co-58	<8.51E+00	0.00E+00	8.51E+00
				Fe-59	<2.72E+01	0.00E+00	2.72E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.50E+01	0.00E+00	2.50E+01
				Nb-95	<1.41E+01	0.00E+00	1.41E+01
				I-131	<1.37E+01	0.00E+00	1.37E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<1.46E+01	0.00E+00	1.46E+01
				La-140	<2.13E+01	0.00E+00	2.13E+01
				Ba-140	<4.59E+01	0.00E+00	4.59E+01
				Total-Gam	0.00E+00		
Sample ID:	435047	Sample Dates:	1/31/2017 - 1/31/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.60E+01	0.00E+00	1.61E+01
				Fe-59	<2.90E+01	0.00E+00	2.90E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<2.65E+01	0.00E+00	2.65E+01
				Zr-95	<2.52E+01	0.00E+00	2.52E+01
				Nb-95	<1.30E+01	0.00E+00	1.30E+01
				I-131	<1.47E+01	0.00E+00	1.47E+01
				Cs-134	<6.81E+00	0.00E+00	6.81E+00
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<3.48E+01	0.00E+00	3.48E+01
				Ba-140	<3.64E+01	0.00E+00	3.64E+01
				Total-Gam	0.00E+00		
Sample ID:	435757	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.21E+01	0.00E+00	1.21E+01
				Fe-59	<1.37E+01	0.00E+00	1.37E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<2.16E+01	0.00E+00	2.16E+01
				Zr-95	<2.52E+01	0.00E+00	2.52E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	435757	Sample Dates:	2/8/2017 - 2/8/2017	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<1.01E+01	0.00E+00	1.01E+01
				I-131	<1.87E+01	0.00E+00	1.87E+01
				Cs-134	<9.73E+00	0.00E+00	9.73E+00
				Cs-137	<8.40E+00	0.00E+00	8.40E+00
				La-140	<2.24E+01	0.00E+00	2.24E+01
				Ba-140	<5.39E+01	0.00E+00	5.39E+01
				Total-Gam	0.00E+00		
Sample ID:	436207	Sample Dates:	2/14/2017 - 2/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.37E+01	0.00E+00	1.37E+01
				Fe-59	<1.97E+01	0.00E+00	1.97E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<3.06E+01	0.00E+00	3.06E+01
				Zr-95	<2.33E+01	0.00E+00	2.33E+01
				Nb-95	<1.78E+01	0.00E+00	1.78E+01
				I-131	<1.52E+01	0.00E+00	1.52E+01
				Cs-134	<8.35E+00	0.00E+00	8.35E+00
				Cs-137	<1.68E+01	0.00E+00	1.68E+01
				La-140	<2.50E+01	0.00E+00	2.50E+01
				Ba-140	<5.72E+01	0.00E+00	5.72E+01
				Total-Gam	0.00E+00		
Sample ID:	436658	Sample Dates:	2/21/2017 - 2/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.71E+01	0.00E+00	1.71E+01
				Fe-59	<3.07E+01	0.00E+00	3.07E+01
				Co-60	<2.28E+01	0.00E+00	2.28E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.18E+01	0.00E+00	2.18E+01
				Nb-95	<1.01E+01	0.00E+00	1.01E+01
				I-131	<1.61E+01	0.00E+00	1.61E+01
				Cs-134	<1.44E+01	0.00E+00	1.44E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.57E+01	0.00E+00	1.57E+01
				Ba-140	<5.95E+01	0.00E+00	5.95E+01
				Total-Gam	0.00E+00		
Sample ID:	437519	Sample Dates:	2/28/2017 - 2/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.65E+00	0.00E+00	8.65E+00
				Co-58	<1.71E+01	0.00E+00	1.71E+01
				Fe-59	<2.74E+01	0.00E+00	2.74E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<3.05E+01	0.00E+00	3.05E+01
				Zr-95	<1.78E+01	0.00E+00	1.78E+01
				Nb-95	<1.30E+01	0.00E+00	1.30E+01
				I-131	<1.62E+01	0.00E+00	1.62E+01
				Cs-134	<9.63E+00	0.00E+00	9.63E+00
				Cs-137	<1.68E+01	0.00E+00	1.68E+01
				La-140	<1.61E+01	0.00E+00	1.61E+01
				Ba-140	<3.60E+01	0.00E+00	3.60E+01
				Total-Gam	0.00E+00		
Sample ID:	438249	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<3.06E+01	0.00E+00	3.06E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.81E+01	0.00E+00	2.81E+01
				Nb-95	<1.84E+01	0.00E+00	1.84E+01
				I-131	<1.38E+01	0.00E+00	1.38E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	438249	Sample Dates:	3/7/2017 - 3/7/2017	Nuclide	Activity	2 Sigma Error	MDA
				La-140	<1.55E+01	0.00E+00	1.55E+01
				Ba-140	<5.37E+01	0.00E+00	5.37E+01
				Total-Gam	0.00E+00		
Sample ID:	439282	Sample Dates:	3/14/2017 - 3/14/2017	Nuclide	Activity	2 Sigma Error	MDA
				Total-Gam	0.00E+00		
Sample ID:	439095	Sample Dates:	3/21/2017 - 3/21/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.22E+01	0.00E+00	1.22E+01
				Co-58	<1.48E+01	0.00E+00	1.48E+01
				Fe-59	<2.37E+01	0.00E+00	2.37E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<3.74E+01	0.00E+00	3.74E+01
				Zr-95	<2.72E+01	0.00E+00	2.72E+01
				Nb-95	<2.01E+01	0.00E+00	2.01E+01
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.46E+01	0.00E+00	1.46E+01
				La-140	<2.12E+01	0.00E+00	2.12E+01
				Ba-140	<5.04E+01	0.00E+00	5.04E+01
				Total-Gam	0.00E+00		
Sample ID:	439948	Sample Dates:	3/28/2017 - 3/28/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<2.71E+01	0.00E+00	2.71E+01
				Co-60	<1.39E+01	0.00E+00	1.39E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.50E+01	0.00E+00	2.50E+01
				Nb-95	<1.51E+01	0.00E+00	1.51E+01
				I-131	<1.47E+01	0.00E+00	1.47E+01
				Cs-134	<1.18E+01	0.00E+00	1.18E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<2.02E+01	0.00E+00	2.02E+01
				Ba-140	<3.45E+01	0.00E+00	3.45E+01
				Total-Gam	0.00E+00		
Sample ID:	440520	Sample Dates:	4/4/2017 - 4/4/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.50E+01	0.00E+00	1.50E+01
				Co-58	<1.35E+01	0.00E+00	1.35E+01
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<0.00E+00	0.00E+00	0.00E+00
				Zr-95	<1.78E+01	0.00E+00	1.78E+01
				Nb-95	<1.01E+01	0.00E+00	1.01E+01
				I-131	<1.39E+01	0.00E+00	1.39E+01
				Cs-134	<1.52E+01	0.00E+00	1.52E+01
				Cs-137	<1.46E+01	0.00E+00	1.46E+01
				La-140	<1.60E+01	0.00E+00	1.60E+01
				Ba-140	<5.68E+01	0.00E+00	5.68E+01
				Total-Gam	0.00E+00		
Sample ID:	441360	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.06E+01	0.00E+00	1.06E+01
				Co-58	<8.51E+00	0.00E+00	8.51E+00
				Fe-59	<1.92E+01	0.00E+00	1.92E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.64E+01	0.00E+00	2.64E+01
				Zr-95	<2.16E+01	0.00E+00	2.16E+01
				Nb-95	<1.28E+01	0.00E+00	1.28E+01
				I-131	<1.37E+01	0.00E+00	1.37E+01
				Cs-134	<1.36E+01	0.00E+00	1.36E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<9.77E+00	0.00E+00	9.77E+00

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	441360	Sample Dates:	4/11/2017 - 4/11/2017	Nuclide	Activity	2 Sigma Error	MDA
				Ba-140	<3.47E+01	0.00E+00	3.47E+01
				Total-Gam	0.00E+00		
Sample ID:	441771	Sample Dates:	4/18/2017 - 4/18/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.73E+01	0.00E+00	1.73E+01
				Co-58	<1.21E+01	0.00E+00	1.21E+01
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<3.74E+01	0.00E+00	3.74E+01
				Zr-95	<2.52E+01	0.00E+00	2.52E+01
				Nb-95	<8.22E+00	0.00E+00	8.22E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<1.44E+01	0.00E+00	1.44E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<3.44E+01	0.00E+00	3.44E+01
				Ba-140	<4.41E+01	0.00E+00	4.41E+01
				Total-Gam	0.00E+00		
Sample ID:	442218	Sample Dates:	4/25/2017 - 4/25/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<8.64E+00	0.00E+00	8.64E+00
				Co-58	<8.51E+00	0.00E+00	8.51E+00
				Fe-59	<2.35E+01	0.00E+00	2.35E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<2.15E+01	0.00E+00	2.15E+01
				Zr-95	<2.89E+01	0.00E+00	2.89E+01
				Nb-95	<1.72E+01	0.00E+00	1.72E+01
				I-131	<8.84E+00	0.00E+00	8.84E+00
				Cs-134	<1.27E+01	0.00E+00	1.27E+01
				Cs-137	<1.33E+01	0.00E+00	1.33E+01
				La-140	<1.22E+01	0.00E+00	1.22E+01
				Ba-140	<5.21E+01	0.00E+00	5.21E+01
				Total-Gam	0.00E+00		
Sample ID:	442809	Sample Dates:	5/2/2017 - 5/2/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.21E+01	0.00E+00	1.21E+01
				Fe-59	<1.94E+01	0.00E+00	1.94E+01
				Co-60	<8.91E+00	0.00E+00	8.91E+00
				Zn-65	<4.04E+01	0.00E+00	4.04E+01
				Zr-95	<2.72E+01	0.00E+00	2.72E+01
				Nb-95	<1.64E+01	0.00E+00	1.64E+01
				I-131	<1.10E+01	0.00E+00	1.10E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<8.40E+00	0.00E+00	8.40E+00
				La-140	<3.98E+01	0.00E+00	3.98E+01
				Ba-140	<3.58E+01	0.00E+00	3.58E+01
				Total-Gam	0.00E+00		
Sample ID:	443247	Sample Dates:	5/9/2017 - 5/9/2017	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.62E+01	0.00E+00	1.62E+01
				Co-58	<1.20E+01	0.00E+00	1.20E+01
				Fe-59	<2.35E+01	0.00E+00	2.35E+01
				Co-60	<8.05E+00	0.00E+00	8.05E+00
				Zn-65	<3.05E+01	0.00E+00	3.05E+01
				Zr-95	<2.70E+01	0.00E+00	2.70E+01
				Nb-95	<1.52E+01	0.00E+00	1.52E+01
				I-131	<1.42E+01	0.00E+00	1.42E+01
				Cs-134	<1.08E+01	0.00E+00	1.08E+01
				Cs-137	<1.19E+01	0.00E+00	1.19E+01
				La-140	<1.68E+01	0.00E+00	1.68E+01
				Ba-140	<5.18E+01	0.00E+00	5.18E+01
				Total-Gam	0.00E+00		

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	443805	Sample Dates:	5/16/2017 - 5/16/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.06E+01	0.00E+00	1.06E+01				
Co-58	<1.60E+01	0.00E+00	1.60E+01				
Fe-59	<2.38E+01	0.00E+00	2.38E+01				
Co-60	<1.54E+01	0.00E+00	1.54E+01				
Zn-65	<3.74E+01	0.00E+00	3.74E+01				
Zr-95	<2.30E+01	0.00E+00	2.30E+01				
Nb-95	<1.84E+01	0.00E+00	1.84E+01				
I-131	<1.72E+01	0.00E+00	1.72E+01				
Cs-134	<9.73E+00	0.00E+00	9.73E+00				
Cs-137	<1.19E+01	0.00E+00	1.19E+01				
La-140	<2.25E+01	0.00E+00	2.25E+01				
Ba-140	<5.08E+01	0.00E+00	5.08E+01				
Total-Gam	0.00E+00						

Sample ID:	444199	Sample Dates:	5/23/2017 - 5/23/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.54E+01	0.00E+00	1.54E+01				
Co-58	<1.80E+01	0.00E+00	1.80E+01				
Fe-59	<3.31E+01	0.00E+00	3.31E+01				
Co-60	<8.09E+00	0.00E+00	8.09E+00				
Zn-65	<2.74E+01	0.00E+00	2.74E+01				
Zr-95	<1.66E+01	0.00E+00	1.66E+01				
Nb-95	<1.28E+01	0.00E+00	1.28E+01				
I-131	<4.61E+01	0.00E+00	4.61E+01				
Cs-134	<1.09E+01	0.00E+00	1.09E+01				
Cs-137	<1.68E+01	0.00E+00	1.68E+01				
La-140	<2.43E+03	0.00E+00	2.43E+03				
Ba-140	<7.76E+01	0.00E+00	7.76E+01				
Total-Gam	0.00E+00						

Sample ID:	445269	Sample Dates:	5/30/2017 - 5/30/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.64E+01	0.00E+00	1.64E+01				
Co-58	<1.56E+01	0.00E+00	1.56E+01				
Fe-59	<1.48E+01	0.00E+00	1.48E+01				
Co-60	<1.26E+01	0.00E+00	1.26E+01				
Zn-65	<3.79E+01	0.00E+00	3.79E+01				
Zr-95	<3.25E+01	0.00E+00	3.25E+01				
Nb-95	<1.57E+01	0.00E+00	1.57E+01				
I-131	<2.14E+01	0.00E+00	2.14E+01				
Cs-134	<1.28E+01	0.00E+00	1.28E+01				
Cs-137	<1.46E+01	0.00E+00	1.46E+01				
La-140	<1.80E+02	0.00E+00	1.80E+02				
Ba-140	<8.83E+01	0.00E+00	8.83E+01				
Total-Gam	0.00E+00						

Sample ID:	446268	Sample Dates:	6/6/2017 - 6/6/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<6.11E+00	0.00E+00	6.11E+00				
Co-58	<1.47E+01	0.00E+00	1.47E+01				
Fe-59	<2.02E+01	0.00E+00	2.02E+01				
Co-60	<8.05E+00	0.00E+00	8.05E+00				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.79E+01	0.00E+00	2.79E+01				
Nb-95	<1.41E+01	0.00E+00	1.41E+01				
I-131	<1.43E+01	0.00E+00	1.43E+01				
Cs-134	<1.52E+01	0.00E+00	1.52E+01				
Cs-137	<1.33E+01	0.00E+00	1.33E+01				
La-140	<2.44E+01	0.00E+00	2.44E+01				
Ba-140	<4.91E+01	0.00E+00	4.91E+01				
Total-Gam	0.00E+00						

Sample ID:	446772	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.50E+01	0.00E+00	1.50E+01				
Co-58	<1.21E+01	0.00E+00	1.21E+01				
Fe-59	<2.75E+01	0.00E+00	2.75E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	446772	Sample Dates:	6/13/2017 - 6/13/2017	Nuclide	Activity	2 Sigma Error	MDA
Zn-65	<3.06E+01	0.00E+00	3.06E+01				
Zr-95	<2.06E+01	0.00E+00	2.06E+01				
Nb-95	<1.17E+01	0.00E+00	1.17E+01				
I-131	<1.60E+01	0.00E+00	1.60E+01				
Cs-134	<9.73E+00	0.00E+00	9.73E+00				
Cs-137	<8.40E+00	0.00E+00	8.40E+00				
La-140	<1.76E+01	0.00E+00	1.76E+01				
Ba-140	<4.81E+01	0.00E+00	4.81E+01				
Total-Gam	0.00E+00						

Sample ID:	447098	Sample Dates:	6/21/2017 - 6/21/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.70E+01	0.00E+00	1.70E+01				
Fe-59	<2.35E+01	0.00E+00	2.35E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<2.15E+01	0.00E+00	2.15E+01				
Zr-95	<2.50E+01	0.00E+00	2.50E+01				
Nb-95	<1.72E+01	0.00E+00	1.72E+01				
I-131	<1.62E+01	0.00E+00	1.62E+01				
Cs-134	<1.38E+01	0.00E+00	1.38E+01				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<2.05E+01	0.00E+00	2.05E+01				
Ba-140	<4.57E+01	0.00E+00	4.57E+01				
Total-Gam	0.00E+00						

Sample ID:	447751	Sample Dates:	6/27/2017 - 6/27/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.37E+01	0.00E+00	1.37E+01				
Co-58	<1.34E+01	0.00E+00	1.34E+01				
Fe-59	<2.02E+01	0.00E+00	2.02E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.50E+01	0.00E+00	2.50E+01				
Nb-95	<2.14E+01	0.00E+00	2.14E+01				
I-131	<1.29E+01	0.00E+00	1.29E+01				
Cs-134	<1.54E+01	0.00E+00	1.54E+01				
Cs-137	<1.57E+01	0.00E+00	1.57E+01				
La-140	<1.15E+01	0.00E+00	1.15E+01				
Ba-140	<5.96E+01	0.00E+00	5.96E+01				
Total-Gam	0.00E+00						

Sample ID:	448215	Sample Dates:	7/5/2017 - 7/5/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.22E+01	0.00E+00	1.22E+01				
Co-58	<1.20E+01	0.00E+00	1.20E+01				
Fe-59	<2.71E+01	0.00E+00	2.71E+01				
Co-60	<8.91E+00	0.00E+00	8.91E+00				
Zn-65	<2.64E+01	0.00E+00	2.64E+01				
Zr-95	<2.04E+01	0.00E+00	2.04E+01				
Nb-95	<1.40E+01	0.00E+00	1.40E+01				
I-131	<1.12E+01	0.00E+00	1.12E+01				
Cs-134	<6.80E+00	0.00E+00	6.80E+00				
Cs-137	<1.57E+01	0.00E+00	1.57E+01				
La-140	<2.09E+01	0.00E+00	2.09E+01				
Ba-140	<4.58E+01	0.00E+00	4.58E+01				
Total-Gam	0.00E+00						

Sample ID:	448841	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.37E+01	0.00E+00	1.37E+01				
Co-58	<1.35E+01	0.00E+00	1.35E+01				
Fe-59	<2.04E+01	0.00E+00	2.04E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<1.53E+01	0.00E+00	1.53E+01				
Zr-95	<2.18E+01	0.00E+00	2.18E+01				
Nb-95	<1.65E+01	0.00E+00	1.65E+01				
I-131	<1.51E+01	0.00E+00	1.51E+01				
Total-Gam	0.00E+00						

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 1067 [INDICATOR - @ 0 miles]

Sample ID:	448841	Sample Dates:	7/11/2017 - 7/11/2017	Nuclide	Activity	2 Sigma Error	MDA
Cs-134	<9.73E+00	0.00E+00	9.73E+00				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<3.48E+01	0.00E+00	3.48E+01				
Ba-140	<4.77E+01	0.00E+00	4.77E+01				
Total-Gam	0.00E+00						

Sample ID:	449154	Sample Dates:	7/18/2017 - 7/18/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.73E+01	0.00E+00	1.73E+01				
Co-58	<1.82E+01	0.00E+00	1.82E+01				
Fe-59	<3.07E+01	0.00E+00	3.07E+01				
Co-60	<1.14E+01	0.00E+00	1.14E+01				
Zn-65	<1.53E+01	0.00E+00	1.53E+01				
Zr-95	<2.72E+01	0.00E+00	2.72E+01				
Nb-95	<1.64E+01	0.00E+00	1.64E+01				
I-131	<1.18E+01	0.00E+00	1.18E+01				
Cs-134	<1.27E+01	0.00E+00	1.27E+01				
Cs-137	<1.03E+01	0.00E+00	1.03E+01				
La-140	<1.59E+01	0.00E+00	1.59E+01				
Ba-140	<2.54E+01	0.00E+00	2.54E+01				
Total-Gam	0.00E+00						

Sample ID:	449891	Sample Dates:	7/25/2017 - 7/25/2017	Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<1.62E+01	0.00E+00	1.62E+01				
Co-58	<1.60E+01	0.00E+00	1.60E+01				
Fe-59	<2.75E+01	0.00E+00	2.75E+01				
Co-60	<1.39E+01	0.00E+00	1.39E+01				
Zn-65	<3.05E+01	0.00E+00	3.05E+01				
Zr-95	<1.79E+01	0.00E+00	1.79E+01				
Nb-95	<1.16E+01	0.00E+00	1.16E+01				
I-131	<1.12E+01	0.00E+00	1.12E+01				
Cs-134	<1.44E+01	0.00E+00	1.44E+01				
Cs-137	<1.78E+01	0.00E+00	1.78E+01				
La-140	<3.33E+01	0.00E+00	3.33E+01				
Ba-140	<6.26E+01	0.00E+00	6.26E+01				
Total-Gam	0.00E+00						

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

Sample Point 1 [INDICATOR - E @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	437061	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
			mR/Std Qtr	10.35	

Sample ID:	444959	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
			mR/Std Qtr	10.03	

Sample ID:	451990	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
			mR/Std Qtr	9.37	

Sample ID:	464372	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
			mR/Std Qtr	10.55	

Sample Point 2 [INDICATOR - ESE @ 0.9 miles]	TLD RING TLD_INNER
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Sample ID:	437071	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
			mR/Std Qtr	10.02	

Sample ID:	444969	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
			mR/Std Qtr	9.15	

Sample ID:	452000	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
			mR/Std Qtr	7.67	

Sample ID:	464382	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
			mR/Std Qtr	11.82	

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

Sample Point 3 [INDICATOR - SE @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	437082	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.63
Sample ID:	444980	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.08
Sample ID:	452011	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	9.36
Sample ID:	464393	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	10.44

Sample Point 4 [INDICATOR - SSE @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	437093	Sample Dates:	1/4/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	9.76
Sample ID:	444991	Sample Dates:	4/4/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.55
Sample ID:	452022	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	8.46
Sample ID:	464404	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.80

Sample Point 5 [INDICATOR - S @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	437095	Sample Dates:	1/4/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	11.32
Sample ID:	444993	Sample Dates:	4/4/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.61
Sample ID:	452024	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	7.36
Sample ID:	464406	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	12.04

Sample Point 6 [INDICATOR - SSW @ 1.6 miles]

TLD RING TLD_INNER

Sample ID:	437096	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.80
Sample ID:	444994	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	10.08
Sample ID:	452025	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	7.79
Sample ID:	464407	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.83

Sample Point 7 [INDICATOR - SW @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	437097	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	9.92
Sample ID:	444995	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.89

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

Sample Point 7 [INDICATOR - SW @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	464408	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.10

Sample Point 8 [INDICATOR - W @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	437103	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	10.77
Sample ID:	445001	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.59
Sample ID:	452032	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.18
Sample ID:	464414	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.76

Sample Point 9 [INDICATOR - WNW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	437109	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	9.34
Sample ID:	445007	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	7.01
Sample ID:	452038	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.10
Sample ID:	464420	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	9.66

Sample Point 10 [INDICATOR - NW @ 0.8 miles]

TLD RING TLD_INNER

Sample ID:	437062	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	8.71
Sample ID:	444960	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.24
Sample ID:	451991	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	6.47
Sample ID:	464373	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.06

Sample Point 11 [INDICATOR - NNW @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	437063	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	10.22
Sample ID:	444961	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.32
Sample ID:	451992	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	9.24
Sample ID:	464374	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	12.70

Sample Point 12 [INDICATOR - N @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	437064	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	11.86

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

Sample Point 12 [INDICATOR - N @ 1.1 miles]

TLD RING TLD_INNER

Sample ID:	444962	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	10.03
Sample ID:	451993	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	9.35
Sample ID:	464375	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.53

Sample Point 13 [INDICATOR - NNE @ 1.2 miles]

TLD RING TLD_INNER

Sample ID:	437065	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	8.99
Sample ID:	444963	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	6.92
Sample ID:	451994	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	6.85
Sample ID:	464376	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	9.90

Sample Point 14 [INDICATOR - NE @ 0.5 miles]

TLD RING TLD_INNER

Sample ID:	437066	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	13.65
Sample ID:	444964	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.85
Sample ID:	451995	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	10.31
Sample ID:	464377	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	12.96

Sample Point 15 [INDICATOR - ENE @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	437067	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	12.27
Sample ID:	444965	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.67
Sample ID:	451996	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	9.65
Sample ID:	464378	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.92

Sample Point 16 [INDICATOR - WSW @ 1 miles]

TLD RING TLD_INNER

Sample ID:	437068	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	11.63
Sample ID:	444966	Sample Dates:	4/2/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	7.69
Sample ID:	451997	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	8.11
Sample ID:	464379	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.36

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

Sample Point 17 [INDICATOR - ESE @ 1.4 miles]

TLD RING TLD_INNER

Sample ID:	437069	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	12.47
Sample ID:	444967	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.61
Sample ID:	451998	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	9.10
Sample ID:	464380	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	13.07

Sample Point 18 [INDICATOR - SE @ 1.7 miles]

TLD RING TLD_INNER

Sample ID:	437070	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.01
Sample ID:	444968	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.03
Sample ID:	451999	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	8.19
Sample ID:	464381	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	12.53

Sample Point 20 [INDICATOR - S @ 2.1 miles]

TLD RING TLD_INNER

Sample ID:	437072	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.79
Sample ID:	444970	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.96
Sample ID:	452001	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	7.59
Sample ID:	464383	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	12.18

Sample Point 21 [INDICATOR - SSW @ 2.9 miles]

TLD RING TLD_INNER

Sample ID:	437073	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	14.40
Sample ID:	444971	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	12.13
Sample ID:	452002	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	10.11
Sample ID:	464384	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	14.58

Sample Point 22 [INDICATOR - SW @ 5.3 miles]

TLD RING TLD_OUTER

Sample ID:	437074	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	12.06
Sample ID:	444972	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.92
Sample ID:	464385	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	11.57

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

Sample Point 23 [INDICATOR - WSW @ 4.6 miles]

TLD RING TLD_OUTER

Sample ID:	437075	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	8.39
Sample ID:	444973	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	6.96
Sample ID:	452004	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	6.16
Sample ID:	464386	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	8.85

Sample Point 24 [INDICATOR - W @ 3 miles]

TLD RING TLD_INNER

Sample ID:	437076	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	16.30
Sample ID:	444974	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	13.65
Sample ID:	452005	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	12.89
Sample ID:	464387	Sample Dates:	10/4/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	15.66

Sample Point 25 [INDICATOR - WNW @ 8.6 miles]

TLD RING TLD_OUTER

Sample ID:	437077	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	9.91
Sample ID:	444975	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.12
Sample ID:	452006	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	8.47
Sample ID:	464388	Sample Dates:	10/4/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	13.10

Sample Point 26 [INDICATOR - NW @ 5.9 miles]

TLD RING TLD_OUTER

Sample ID:	437078	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	12.41
Sample ID:	444976	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.02
Sample ID:	452007	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	10.86
Sample ID:	464389	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	13.06

Sample Point 27 [INDICATOR - NNW @ 5.1 miles]

TLD RING TLD_OUTER

Sample ID:	437079	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	8.78
Sample ID:	444977	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	7.93
Sample ID:	452008	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.17

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 27 [INDICATOR - NNW @ 5.1 miles]

TLD RING TLD_OUTER

Sample ID:	464390	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.38

Sample Point 28 [INDICATOR - NW @ 4.2 miles]

TLD RING TLD_OUTER

Sample ID:	437080	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	9.90
Sample ID:	444978	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.10
Sample ID:	452009	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	6.77
Sample ID:	464391	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	10.60

Sample Point 29 [INDICATOR - SSW @ 2.6 miles]

TLD RING TLD_INNER

Sample ID:	437081	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.19
Sample ID:	444979	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	7.97
Sample ID:	452010	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	6.99
Sample ID:	464392	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	9.86

Sample Point 30 [INDICATOR - NE @ 2 miles]

TLD RING TLD_INNER

Sample ID:	437083	Sample Dates:	1/4/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	9.30
Sample ID:	452012	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	8.21

Sample Point 31 [INDICATOR - ENE @ 2.5 miles]

TLD RING TLD_INNER

Sample ID:	437084	Sample Dates:	1/4/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	11.88
Sample ID:	444982	Sample Dates:	4/4/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.61
Sample ID:	452013	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	10.14
Sample ID:	464395	Sample Dates:	10/3/2017 - 1/10/2018	Nuclide	Activity
				mR/Std Qtr	13.02

Sample Point 32 [INDICATOR - ENE @ 5.8 miles]

TLD RING TLD_OUTER

Sample ID:	437085	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	11.74
Sample ID:	444983	Sample Dates:	4/2/2017 - 7/6/2017	Nuclide	Activity

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 32 [INDICATOR - ENE @ 5.8 miles]

TLD RING TLD_OUTER

Sample ID:	452014	Sample Dates:	7/6/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	10.26
Sample ID:	464396	Sample Dates:	10/3/2017 - 1/7/2018	Nuclide	Activity
				mR/Std Qtr	12.59

Sample Point 33 [INDICATOR - E @ 4.1 miles] TLD RING TLD_OUTER

Sample ID:	437086	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	8.84
Sample ID:	444984	Sample Dates:	4/2/2017 - 7/6/2017	Nuclide	Activity
				mR/Std Qtr	7.76
Sample ID:	452015	Sample Dates:	7/6/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.05
Sample ID:	464397	Sample Dates:	10/3/2017 - 1/7/2018	Nuclide	Activity
				mR/Std Qtr	12.12

Sample Point 34 [INDICATOR - E @ 5.4 miles] TLD RING TLD_OUTER

Sample ID:	437087	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	9.08
Sample ID:	444985	Sample Dates:	4/2/2017 - 7/6/2017	Nuclide	Activity
				mR/Std Qtr	8.73
Sample ID:	452016	Sample Dates:	7/6/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.49
Sample ID:	464398	Sample Dates:	10/3/2017 - 1/7/2018	Nuclide	Activity
				mR/Std Qtr	11.08

Sample Point 35 [INDICATOR - SSE @ 7.3 miles] TLD RING TLD_OUTER

Sample ID:	437088	Sample Dates:	1/5/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	8.81
Sample ID:	444986	Sample Dates:	4/4/2017 - 7/6/2017	Nuclide	Activity
				mR/Std Qtr	7.30
Sample ID:	452017	Sample Dates:	7/6/2017 - 10/5/2017	Nuclide	Activity
				mR/Std Qtr	5.71
Sample ID:	464399	Sample Dates:	10/5/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	10.73

Sample Point 36 [INDICATOR - NE @ 8.9 miles] TLD RING TLD_OUTER

Sample ID:	437089	Sample Dates:	1/5/2017 - 4/2/2017	Nuclide	Activity
				mR/Std Qtr	10.63
Sample ID:	444987	Sample Dates:	4/2/2017 - 7/6/2017	Nuclide	Activity
				mR/Std Qtr	8.73
Sample ID:	452018	Sample Dates:	7/6/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.81
Sample ID:	464400	Sample Dates:	10/3/2017 - 1/7/2018	Nuclide	Activity
				mR/Std Qtr	10.10

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 37 [INDICATOR - NW @ 5.5 miles]

TLD RING TLD_OUTER

Sample ID:	437090	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	8.21
Sample ID:	444988	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.65
Sample ID:	452019	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	5.60
Sample ID:	464401	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.89

Sample Point 38 [INDICATOR - W @ 11 miles]

TLD RING TLD_OUTER

Sample ID:	437091	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	11.68
Sample ID:	444989	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.93
Sample ID:	452020	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	8.68
Sample ID:	464402	Sample Dates:	10/4/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	9.98

Sample Point 39 [INDICATOR - SW @ 5.3 miles]

TLD RING TLD_OUTER

Sample ID:	437092	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	16.42
Sample ID:	444990	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	12.87
Sample ID:	452021	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	11.75
Sample ID:	464403	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	15.19

Sample Point 40 [INDICATOR - WSW @ 6.9 miles]

TLD RING TLD_OUTER

Sample ID:	437094	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	15.19
Sample ID:	444992	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.26
Sample ID:	452023	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	9.53
Sample ID:	464405	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	15.99

Sample Point 75 [INDICATOR - S @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	437098	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	11.14
Sample ID:	444996	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.56
Sample ID:	452027	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	8.40

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 75 [INDICATOR - S @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	464409	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	11.90

Sample Point 76 [INDICATOR - SSW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	437099	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	13.37
Sample ID:	444997	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	11.43
Sample ID:	464410	Sample Dates:	10/4/2017 - 1/9/2018	Nuclide	Activity
				mR/Std Qtr	12.45

Sample Point 77 [INDICATOR - S @ 5.4 miles]

TLD RING TLD_OUTER

Sample ID:	437100	Sample Dates:	1/5/2017 - 4/4/2017	Nuclide	Activity
				mR/Std Qtr	8.39
Sample ID:	444998	Sample Dates:	4/4/2017 - 7/6/2017	Nuclide	Activity
				mR/Std Qtr	7.70
Sample ID:	452029	Sample Dates:	7/6/2017 - 10/5/2017	Nuclide	Activity
				mR/Std Qtr	6.87
Sample ID:	464411	Sample Dates:	10/5/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	8.33

Sample Point 78 [INDICATOR - NNE @ 9.9 miles]

TLD RING TLD_OUTER

Sample ID:	437101	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	10.24
Sample ID:	444999	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	8.29
Sample ID:	452030	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	6.44
Sample ID:	464412	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	9.83

Sample Point 79 [INDICATOR - N @ 9.5 miles]

TLD RING TLD_OUTER

Sample ID:	437102	Sample Dates:	1/4/2017 - 4/5/2017	Nuclide	Activity
				mR/Std Qtr	11.44
Sample ID:	445000	Sample Dates:	4/5/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	9.89
Sample ID:	452031	Sample Dates:	7/7/2017 - 10/3/2017	Nuclide	Activity
				mR/Std Qtr	7.62
Sample ID:	464413	Sample Dates:	10/3/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	11.62

Sample Point 81 [CONTROL - WNW @ 9.9 miles]

TLD RING TLD_CTRL

Sample ID:	437104	Sample Dates:	1/4/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	11.70
Sample ID:	445002	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	10.32

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 81 [CONTROL - WNW @ 9.9 miles]

TLD RING TLD_CTRL

Sample ID:	452033	Sample Dates:	7/7/2017 - 10/4/2017	Nuclide	Activity
				mR/Std Qtr	9.20
Sample ID:	464415	Sample Dates:	10/4/2017 - 1/8/2018	Nuclide	Activity
				mR/Std Qtr	12.02

Sample Point 82 [INDICATOR - NNE @ 0.17 miles] TLD RING NOT_APPLIC

Sample ID:	437105	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	23.68
Sample ID:	445003	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	23.19
Sample ID:	452034	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	23.58
Sample ID:	464416	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	29.04

Sample Point 83 [INDICATOR - NE @ 0.27 miles] TLD RING NOT_APPLIC

Sample ID:	437106	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	25.19
Sample ID:	445004	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	22.70
Sample ID:	452035	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	24.18
Sample ID:	464417	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	25.15

Sample Point 84 [INDICATOR - NE @ 0.27 miles] TLD RING NOT_APPLIC

Sample ID:	437107	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	20.04
Sample ID:	445005	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	19.11
Sample ID:	452036	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	16.72
Sample ID:	464418	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	18.10

Sample Point 85 [INDICATOR - ENE @ 0.09 miles] TLD RING NOT_APPLIC

Sample ID:	437108	Sample Dates:	1/5/2017 - 4/3/2017	Nuclide	Activity
				mR/Std Qtr	27.78
Sample ID:	445006	Sample Dates:	4/3/2017 - 7/7/2017	Nuclide	Activity
				mR/Std Qtr	24.87
Sample ID:	452037	Sample Dates:	7/7/2017 - 10/2/2017	Nuclide	Activity
				mR/Std Qtr	25.83
Sample ID:	464419	Sample Dates:	10/2/2017 - 1/3/2018	Nuclide	Activity
				mR/Std Qtr	24.27

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 800 [INDICATOR - NE @ 0.7 miles]

Sample ID:	433079	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.45E+01	0.00E+00	3.45E+01
					Co-58	<3.64E+01	0.00E+00	3.64E+01
					Fe-59	<6.29E+01	0.00E+00	6.29E+01
					Co-60	<4.01E+01	0.00E+00	4.01E+01
					Zn-65	<6.27E+01	0.00E+00	6.27E+01
					Zr-95	<6.30E+01	0.00E+00	6.30E+01
					Nb-95	<3.34E+01	0.00E+00	3.34E+01
					I-131	<3.47E+01	0.00E+00	3.47E+01
					Cs-134	<4.49E+01	0.00E+00	4.49E+01
					Cs-137	<3.88E+01	0.00E+00	3.88E+01
					BaLa-140	<3.29E+01	0.00E+00	3.29E+01
					Be-7	2.20E+03	4.88E-02	4.91E+02
					K-40	1.67E+03	4.92E+02	9.08E+01
Sample ID:	435537	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.24E+01	0.00E+00	2.24E+01
					Co-58	<2.10E+01	0.00E+00	2.10E+01
					Fe-59	<5.54E+01	0.00E+00	5.54E+01
					Co-60	<2.91E+01	0.00E+00	2.91E+01
					Zn-65	<5.97E+01	0.00E+00	5.97E+01
					Zr-95	<4.38E+01	0.00E+00	4.38E+01
					Nb-95	<1.76E+01	0.00E+00	1.76E+01
					I-131	<2.26E+01	0.00E+00	2.26E+01
					Cs-134	<3.19E+01	0.00E+00	3.19E+01
					Cs-137	<2.57E+01	0.00E+00	2.57E+01
					BaLa-140	<1.93E+01	0.00E+00	1.93E+01
					Be-7	1.44E+03	2.96E-02	2.64E+02
					K-40	2.36E+03	5.22E-02	3.86E+02
Sample ID:	438089	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.09E+01	0.00E+00	3.09E+01
					Co-58	<3.15E+01	0.00E+00	3.15E+01
					Fe-59	<6.32E+01	0.00E+00	6.32E+01
					Co-60	<3.86E+01	0.00E+00	3.86E+01
					Zn-65	<5.91E+01	0.00E+00	5.91E+01
					Zr-95	<5.46E+01	0.00E+00	5.46E+01
					Nb-95	<3.14E+01	0.00E+00	3.14E+01
					I-131	<4.77E+01	0.00E+00	4.77E+01
					Cs-134	<3.30E+01	0.00E+00	3.30E+01
					Cs-137	<2.97E+01	0.00E+00	2.97E+01
					BaLa-140	<5.28E+01	0.00E+00	5.28E+01
					Be-7	1.67E+03	3.79E-02	3.87E+02
					K-40	2.17E+03	5.72E-02	5.15E+02
Sample ID:	440771	Sample Dates:	4/1/2017 - 4/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.20E+01	0.00E+00	2.20E+01
					Co-58	<2.22E+01	0.00E+00	2.22E+01
					Fe-59	<5.40E+01	0.00E+00	5.40E+01
					Co-60	<2.41E+01	0.00E+00	2.41E+01
					Zn-65	<3.27E+01	0.00E+00	3.27E+01
					Zr-95	<4.05E+01	0.00E+00	4.05E+01
					Nb-95	<2.08E+01	0.00E+00	2.08E+01
					I-131	<2.50E+01	0.00E+00	2.50E+01
					Cs-134	<2.46E+01	0.00E+00	2.46E+01
					Cs-137	<2.12E+01	0.00E+00	2.12E+01
					BaLa-140	<2.76E+01	0.00E+00	2.76E+01
					Be-7	3.20E+03	4.62E-02	2.72E+02
					K-40	2.23E+03	4.92E-02	3.32E+02
Sample ID:	443047	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.59E+01	0.00E+00	2.59E+01
					Co-58	<2.71E+01	0.00E+00	2.71E+01
					Fe-59	<4.50E+01	0.00E+00	4.50E+01
					Co-60	<2.59E+01	0.00E+00	2.59E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 800 [INDICATOR - NE @ 0.7 miles]

Sample ID:	443047	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<5.32E+01	0.00E+00	5.32E+01
					Zr-95	<5.53E+01	0.00E+00	5.53E+01
					Nb-95	<2.62E+01	0.00E+00	2.62E+01
					I-131	<2.70E+01	0.00E+00	2.70E+01
					Cs-134	<2.19E+01	0.00E+00	2.19E+01
					Cs-137	<2.51E+01	0.00E+00	2.51E+01
					BaLa-140	<2.82E+01	0.00E+00	2.82E+01
					Be-7	1.74E+03	3.44E+02	3.13E+02
					K-40	3.51E+03	6.32E+02	2.64E+02
Sample ID:	444229	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.12E+01	0.00E+00	2.12E+01
					Co-58	<2.04E+01	0.00E+00	2.04E+01
					Fe-59	<5.07E+01	0.00E+00	5.07E+01
					Co-60	<3.05E+01	0.00E+00	3.05E+01
					Zn-65	<4.70E+01	0.00E+00	4.70E+01
					Zr-95	<3.29E+01	0.00E+00	3.29E+01
					Nb-95	<2.31E+01	0.00E+00	2.31E+01
					I-131	<3.07E+01	0.00E+00	3.07E+01
					Cs-134	<2.50E+01	0.00E+00	2.50E+01
					Cs-137	<2.25E+01	0.00E+00	2.25E+01
					BaLa-140	<3.09E+01	0.00E+00	3.09E+01
					Be-7	8.07E+02	2.27E+02	2.38E+02
					K-40	2.97E+03	5.86E+02	3.89E+02
Sample ID:	447135	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.52E+01	0.00E+00	2.52E+01
					Co-58	<1.77E+01	0.00E+00	1.77E+01
					Fe-59	<4.48E+01	0.00E+00	4.48E+01
					Co-60	<3.13E+01	0.00E+00	3.13E+01
					Zn-65	<5.17E+01	0.00E+00	5.17E+01
					Zr-95	<3.84E+01	0.00E+00	3.84E+01
					Nb-95	<2.96E+01	0.00E+00	2.96E+01
					I-131	<3.22E+01	0.00E+00	3.22E+01
					Cs-134	<2.69E+01	0.00E+00	2.69E+01
					Cs-137	<2.42E+01	0.00E+00	2.42E+01
					BaLa-140	<3.90E+01	0.00E+00	3.90E+01
					Be-7	1.02E+03	2.82E+02	3.27E+02
					K-40	3.36E+03	6.29E+02	3.99E+02
Sample ID:	449187	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.82E+01	0.00E+00	1.82E+01
					Co-58	<1.91E+01	0.00E+00	1.91E+01
					Fe-59	<4.43E+01	0.00E+00	4.43E+01
					Co-60	<2.02E+01	0.00E+00	2.02E+01
					Zn-65	<4.35E+01	0.00E+00	4.35E+01
					Zr-95	<3.13E+01	0.00E+00	3.13E+01
					Nb-95	<1.74E+01	0.00E+00	1.74E+01
					I-131	<2.52E+01	0.00E+00	2.52E+01
					Cs-134	<1.91E+01	0.00E+00	1.91E+01
					Cs-137	<1.81E+01	0.00E+00	1.81E+01
					BaLa-140	<2.14E+01	0.00E+00	2.14E+01
					Be-7	1.35E+03	2.55E+02	2.47E+02
					K-40	2.61E+03	4.40E+02	2.46E+02
Sample ID:	451155	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.52E+01	0.00E+00	2.52E+01
					Co-58	<2.05E+01	0.00E+00	2.05E+01
					Fe-59	<4.42E+01	0.00E+00	4.42E+01
					Co-60	<3.63E+01	0.00E+00	3.63E+01
					Zn-65	<4.62E+01	0.00E+00	4.62E+01
					Zr-95	<5.49E+01	0.00E+00	5.49E+01
					Nb-95	<3.01E+01	0.00E+00	3.01E+01
					I-131	<3.52E+01	0.00E+00	3.52E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 800 [INDICATOR - NE @ 0.7 miles]

Sample ID:	451155	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Cs-134	<3.06E+01	0.00E+00	3.06E+01
					Cs-137	<3.09E+01	0.00E+00	3.09E+01
					BaLa-140	<4.08E+01	0.00E+00	4.08E+01
					Be-7	1.77E+03	3.46E+02	2.86E+02
					K-40	2.86E+03	5.95E+02	4.38E+02
Sample ID:	453410	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.13E+01	0.00E+00	3.13E+01
					Co-58	<2.60E+01	0.00E+00	2.60E+01
					Fe-59	<3.32E+01	0.00E+00	3.32E+01
					Co-60	<2.95E+01	0.00E+00	2.95E+01
					Zn-65	<8.17E+01	0.00E+00	8.17E+01
					Zr-95	<4.71E+01	0.00E+00	4.71E+01
					Nb-95	<2.42E+01	0.00E+00	2.42E+01
					I-131	<3.13E+01	0.00E+00	3.13E+01
					Cs-134	<3.16E+01	0.00E+00	3.16E+01
					Cs-137	<2.50E+01	0.00E+00	2.50E+01
					BaLa-140	<2.32E+01	0.00E+00	2.32E+01
					Be-7	9.44E+02	2.57E+02	2.73E+02
					K-40	3.31E+03	6.21E+02	2.67E+02
Sample ID:	456008	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.44E+01	0.00E+00	1.44E+01
					Co-58	<1.27E+01	0.00E+00	1.27E+01
					Fe-59	<2.60E+01	0.00E+00	2.60E+01
					Co-60	<1.41E+01	0.00E+00	1.41E+01
					Zn-65	<2.84E+01	0.00E+00	2.84E+01
					Zr-95	<2.60E+01	0.00E+00	2.60E+01
					Nb-95	<1.65E+01	0.00E+00	1.65E+01
					I-131	<3.02E+01	0.00E+00	3.02E+01
					Cs-134	<1.54E+01	0.00E+00	1.54E+01
					Cs-137	<1.42E+01	0.00E+00	1.42E+01
					BaLa-140	<2.96E+01	0.00E+00	2.96E+01
					Be-7	1.50E+03	2.00E+02	2.08E+02
					K-40	2.81E+03	3.26E+02	2.45E+02
Sample ID:	463058	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.46E+01	0.00E+00	2.46E+01
					Co-58	<2.43E+01	0.00E+00	2.43E+01
					Fe-59	<5.11E+01	0.00E+00	5.11E+01
					Co-60	<3.01E+01	0.00E+00	3.01E+01
					Zn-65	<5.80E+01	0.00E+00	5.80E+01
					Zr-95	<4.31E+01	0.00E+00	4.31E+01
					Nb-95	<3.35E+01	0.00E+00	3.35E+01
					I-131	<4.54E+01	0.00E+00	4.54E+01
					Cs-134	<2.90E+01	0.00E+00	2.90E+01
					Cs-137	<2.21E+01	0.00E+00	2.21E+01
					BaLa-140	<5.24E+01	0.00E+00	5.24E+01
					Be-7	1.97E+03	3.20E+02	3.00E+02
					K-40	2.50E+03	4.83E+02	4.78E+02

Sample Point 801 [INDICATOR - SW @ 0.8 miles]

Sample ID:	433080	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.35E+01	0.00E+00	2.35E+01
					Co-58	<3.24E+01	0.00E+00	3.24E+01
					Fe-59	<5.37E+01	0.00E+00	5.37E+01
					Co-60	<4.15E+01	0.00E+00	4.15E+01
					Zn-65	<6.85E+01	0.00E+00	6.85E+01
					Zr-95	<5.39E+01	0.00E+00	5.39E+01
					Nb-95	<3.15E+01	0.00E+00	3.15E+01
					I-131	<3.63E+01	0.00E+00	3.63E+01
					Cs-134	<4.17E+01	0.00E+00	4.17E+01
					Cs-137	<2.76E+01	0.00E+00	2.76E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 801 [INDICATOR - SW @ 0.8 miles]

Sample ID:	433080	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					BaLa-140	<4.58E+01	0.00E+00	4.58E+01
					Be-7	1.41E+03	3.73E+02	4.36E+02
					K-40	1.69E+03	4.89E+02	4.14E+02
Sample ID:	435538	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.83E+01	0.00E+00	1.83E+01
					Co-58	<1.81E+01	0.00E+00	1.81E+01
					Fe-59	<4.43E+01	0.00E+00	4.43E+01
					Co-60	<1.89E+01	0.00E+00	1.89E+01
					Zn-65	<5.31E+01	0.00E+00	5.31E+01
					Zr-95	<4.16E+01	0.00E+00	4.16E+01
					Nb-95	<1.74E+01	0.00E+00	1.74E+01
					I-131	<2.34E+01	0.00E+00	2.34E+01
					Cs-134	<1.69E+01	0.00E+00	1.69E+01
					Cs-137	<2.64E+01	0.00E+00	2.64E+01
					BaLa-140	<3.11E+01	0.00E+00	3.11E+01
					Be-7	2.95E+03	4.41E+02	2.83E+02
					K-40	2.37E+03	5.03E+02	3.06E+02
Sample ID:	438090	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.20E+01	0.00E+00	3.20E+01
					Co-58	<3.49E+01	0.00E+00	3.49E+01
					Fe-59	<6.39E+01	0.00E+00	6.39E+01
					Co-60	<2.96E+01	0.00E+00	2.96E+01
					Zn-65	<5.67E+01	0.00E+00	5.67E+01
					Zr-95	<4.25E+01	0.00E+00	4.25E+01
					Nb-95	<3.80E+01	0.00E+00	3.80E+01
					I-131	<3.26E+01	0.00E+00	3.26E+01
					Cs-134	<2.86E+01	0.00E+00	2.86E+01
					Cs-137	<1.76E+01	0.00E+00	1.76E+01
					BaLa-140	<2.83E+01	0.00E+00	2.83E+01
					Be-7	1.59E+03	3.29E+02	2.59E+02
					K-40	2.71E+03	5.86E+02	3.47E+02
Sample ID:	440772	Sample Dates:	4/1/2017 - 4/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.44E+01	0.00E+00	2.44E+01
					Co-58	<1.97E+01	0.00E+00	1.97E+01
					Fe-59	<4.55E+01	0.00E+00	4.55E+01
					Co-60	<4.27E+01	0.00E+00	4.27E+01
					Zn-65	<6.87E+01	0.00E+00	6.87E+01
					Zr-95	<5.36E+01	0.00E+00	5.36E+01
					Nb-95	<3.05E+01	0.00E+00	3.05E+01
					I-131	<3.27E+01	0.00E+00	3.27E+01
					Cs-134	<2.88E+01	0.00E+00	2.88E+01
					Cs-137	<2.73E+01	0.00E+00	2.73E+01
					BaLa-140	<4.17E+01	0.00E+00	4.17E+01
					Be-7	1.71E+03	3.46E+02	2.94E+02
					K-40	2.35E+03	5.30E+02	3.10E+02
Sample ID:	443048	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.89E+01	0.00E+00	2.89E+01
					Co-58	<3.01E+01	0.00E+00	3.01E+01
					Fe-59	<5.50E+01	0.00E+00	5.50E+01
					Co-60	<3.46E+01	0.00E+00	3.46E+01
					Zn-65	<5.29E+01	0.00E+00	5.29E+01
					Zr-95	<4.40E+01	0.00E+00	4.40E+01
					Nb-95	<2.35E+01	0.00E+00	2.35E+01
					I-131	<2.95E+01	0.00E+00	2.95E+01
					Cs-134	<2.97E+01	0.00E+00	2.97E+01
					Cs-137	<3.00E+01	0.00E+00	3.00E+01
					BaLa-140	<8.75E+00	0.00E+00	8.75E+00
					Be-7	<3.13E+02	0.00E+00	3.13E+02
					K-40	3.49E+03	6.72E+02	4.38E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 801 [INDICATOR - SW @ 0.8 miles]

Sample ID:	444230	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.28E+01	0.00E+00	2.28E+01
					Co-58	<2.20E+01	0.00E+00	2.20E+01
					Fe-59	<3.92E+01	0.00E+00	3.92E+01
					Co-60	<2.87E+01	0.00E+00	2.87E+01
					Zn-65	<4.63E+01	0.00E+00	4.63E+01
					Zr-95	<4.30E+01	0.00E+00	4.30E+01
					Nb-95	<2.74E+01	0.00E+00	2.74E+01
					I-131	<3.43E+01	0.00E+00	3.43E+01
					Cs-134	<2.82E+01	0.00E+00	2.82E+01
					Cs-137	<2.74E+01	0.00E+00	2.74E+01
					BaLa-140	<2.66E+01	0.00E+00	2.66E+01
					Be-7	1.55E+03	3.22E+02	2.82E+02
					K-40	3.16E+03	6.29E+02	4.41E+02
Sample ID:	447136	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.01E+01	0.00E+00	3.01E+01
					Co-58	<2.93E+01	0.00E+00	2.93E+01
					Fe-59	<5.76E+01	0.00E+00	5.76E+01
					Co-60	<3.00E+01	0.00E+00	3.00E+01
					Zn-65	<6.59E+01	0.00E+00	6.59E+01
					Zr-95	<3.67E+01	0.00E+00	3.67E+01
					Nb-95	<3.31E+01	0.00E+00	3.31E+01
					I-131	<3.37E+01	0.00E+00	3.37E+01
					Cs-134	<2.32E+01	0.00E+00	2.32E+01
					Cs-137	<2.34E+01	0.00E+00	2.34E+01
					BaLa-140	<4.67E+01	0.00E+00	4.67E+01
					Be-7	1.05E+03	3.10E+02	3.64E+02
					K-40	2.65E+03	5.77E+02	2.96E+02
Sample ID:	449188	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.25E+01	0.00E+00	2.25E+01
					Co-58	<2.42E+01	0.00E+00	2.42E+01
					Fe-59	<6.17E+01	0.00E+00	6.17E+01
					Co-60	<1.59E+01	0.00E+00	1.59E+01
					Zn-65	<4.98E+01	0.00E+00	4.98E+01
					Zr-95	<5.49E+01	0.00E+00	5.49E+01
					Nb-95	<3.34E+01	0.00E+00	3.34E+01
					I-131	<3.74E+01	0.00E+00	3.74E+01
					Cs-134	<3.15E+01	0.00E+00	3.15E+01
					Cs-137	<2.71E+01	0.00E+00	2.71E+01
					BaLa-140	<3.65E+01	0.00E+00	3.65E+01
					Be-7	1.45E+03	3.27E+02	3.36E+02
					K-40	2.75E+03	6.04E+02	5.17E+02
Sample ID:	451156	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.58E+01	0.00E+00	2.58E+01
					Co-58	<2.97E+01	0.00E+00	2.97E+01
					Fe-59	<3.08E+01	0.00E+00	3.08E+01
					Co-60	<4.33E+01	0.00E+00	4.33E+01
					Zn-65	<7.63E+01	0.00E+00	7.63E+01
					Zr-95	<5.40E+01	0.00E+00	5.40E+01
					Nb-95	<3.30E+01	0.00E+00	3.30E+01
					I-131	<4.42E+01	0.00E+00	4.42E+01
					Cs-134	<3.48E+01	0.00E+00	3.48E+01
					Cs-137	<2.33E+01	0.00E+00	2.33E+01
					BaLa-140	<5.22E+01	0.00E+00	5.22E+01
					Be-7	1.96E+03	4.02E+02	3.71E+02
					K-40	2.48E+03	5.89E+02	4.72E+02
Sample ID:	453411	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.37E+01	0.00E+00	2.37E+01
					Co-58	<2.38E+01	0.00E+00	2.38E+01
					Fe-59	<4.31E+01	0.00E+00	4.31E+01
					Co-60	<2.22E+01	0.00E+00	2.22E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 801 [INDICATOR - SW @ 0.8 miles]

Sample ID:	453411	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Zn-65	<5.10E+01	0.00E+00	5.10E+01
					Zr-95	<2.98E+01	0.00E+00	2.98E+01
					Nb-95	<2.22E+01	0.00E+00	2.22E+01
					I-131	<2.51E+01	0.00E+00	2.51E+01
					Cs-134	<3.21E+01	0.00E+00	3.21E+01
					Cs-137	<2.18E+01	0.00E+00	2.18E+01
					BaLa-140	<3.49E+01	0.00E+00	3.49E+01
					Be-7	2.32E+03	3.77E+02	2.42E+02
					K-40	2.55E+03	5.53E+02	4.27E+02
Sample ID:	456009	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.27E+01	0.00E+00	2.27E+01
					Co-58	<2.31E+01	0.00E+00	2.31E+01
					Fe-59	<4.70E+01	0.00E+00	4.70E+01
					Co-60	<2.29E+01	0.00E+00	2.29E+01
					Zn-65	<4.61E+01	0.00E+00	4.61E+01
					Zr-95	<3.73E+01	0.00E+00	3.73E+01
					Nb-95	<2.43E+01	0.00E+00	2.43E+01
					I-131	<4.69E+01	0.00E+00	4.69E+01
					Cs-134	<2.37E+01	0.00E+00	2.37E+01
					Cs-137	<1.42E+01	0.00E+00	1.42E+01
					BaLa-140	<4.13E+01	0.00E+00	4.13E+01
					Be-7	2.08E+03	2.86E+02	2.68E+02
					K-40	3.06E+03	4.27E+02	3.56E+02
Sample ID:	463059	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.26E+01	0.00E+00	2.26E+01
					Co-58	<2.45E+01	0.00E+00	2.45E+01
					Fe-59	<5.44E+01	0.00E+00	5.44E+01
					Co-60	<2.33E+01	0.00E+00	2.33E+01
					Zn-65	<5.45E+01	0.00E+00	5.45E+01
					Zr-95	<4.72E+01	0.00E+00	4.72E+01
					Nb-95	<2.82E+01	0.00E+00	2.82E+01
					I-131	<4.68E+01	0.00E+00	4.68E+01
					Cs-134	<2.38E+01	0.00E+00	2.38E+01
					Cs-137	<2.91E+01	0.00E+00	2.91E+01
					BaLa-140	<3.88E+01	0.00E+00	3.88E+01
					Be-7	1.86E+03	2.51E+02	2.46E+02
					K-40	3.85E+03	5.35E+02	4.12E+02

Sample Point 802 [CONTROL - -- @ 10.1 miles]

Sample ID:	433081	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.44E+01	0.00E+00	2.44E+01
					Co-58	<2.06E+01	0.00E+00	2.06E+01
					Fe-59	<4.39E+01	0.00E+00	4.39E+01
					Co-60	<1.99E+01	0.00E+00	1.99E+01
					Zn-65	<6.77E+01	0.00E+00	6.77E+01
					Zr-95	<3.32E+01	0.00E+00	3.32E+01
					Nb-95	<2.00E+01	0.00E+00	2.00E+01
					I-131	<2.59E+01	0.00E+00	2.59E+01
					Cs-134	<2.87E+01	0.00E+00	2.87E+01
					Cs-137	<2.86E+01	0.00E+00	2.86E+01
					BaLa-140	<3.08E+01	0.00E+00	3.08E+01
					Be-7	2.82E+03	4.36E+02	2.91E+02
					K-40	9.62E+02	3.86E+02	4.62E+02
Sample ID:	435539	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.66E+01	0.00E+00	1.66E+01
					Co-58	<1.80E+01	0.00E+00	1.80E+01
					Fe-59	<4.39E+01	0.00E+00	4.39E+01
					Co-60	<2.64E+01	0.00E+00	2.64E+01
					Zn-65	<5.26E+01	0.00E+00	5.26E+01
					Zr-95	<3.95E+01	0.00E+00	3.95E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 802 [CONTROL - -- @ 10.1 miles]

Sample ID:	435539	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Nb-95	<2.88E+01	0.00E+00	2.88E+01
					I-131	<2.08E+01	0.00E+00	2.08E+01
					Cs-134	<2.71E+01	0.00E+00	2.71E+01
					Cs-137	<2.70E+01	0.00E+00	2.70E+01
					BaLa-140	<2.75E+01	0.00E+00	2.75E+01
					Be-7	4.00E+03	5.29E+02	2.80E+02
					K-40	1.32E+03	4.11E+02	4.26E+02
Sample ID:	438091	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.04E+01	0.00E+00	3.04E+01
					Co-58	<2.62E+01	0.00E+00	2.62E+01
					Fe-59	<5.66E+01	0.00E+00	5.66E+01
					Co-60	<3.71E+01	0.00E+00	3.71E+01
					Zn-65	<7.72E+01	0.00E+00	7.72E+01
					Zr-95	<4.24E+01	0.00E+00	4.24E+01
					Nb-95	<3.24E+01	0.00E+00	3.24E+01
					I-131	<4.29E+01	0.00E+00	4.29E+01
					Cs-134	<3.40E+01	0.00E+00	3.40E+01
					Cs-137	<3.31E+01	0.00E+00	3.31E+01
					BaLa-140	<4.95E+01	0.00E+00	4.95E+01
					Be-7	1.80E+03	3.90E+02	3.73E+02
					K-40	1.91E+03	5.34E+02	4.74E+02
Sample ID:	440773	Sample Dates:	4/1/2017 - 4/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.28E+01	0.00E+00	3.28E+01
					Co-58	<2.84E+01	0.00E+00	2.84E+01
					Fe-59	<6.24E+01	0.00E+00	6.24E+01
					Co-60	<3.19E+01	0.00E+00	3.19E+01
					Zn-65	<6.78E+01	0.00E+00	6.78E+01
					Zr-95	<5.15E+01	0.00E+00	5.15E+01
					Nb-95	<2.81E+01	0.00E+00	2.81E+01
					I-131	<3.54E+01	0.00E+00	3.54E+01
					Cs-134	<3.14E+01	0.00E+00	3.14E+01
					Cs-137	<3.65E+01	0.00E+00	3.65E+01
					BaLa-140	<4.33E+01	0.00E+00	4.33E+01
					Be-7	3.33E+03	5.38E+02	4.46E+02
					K-40	2.37E+03	5.94E+02	5.44E+02
Sample ID:	443049	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.15E+01	0.00E+00	2.15E+01
					Co-58	<1.20E+01	0.00E+00	1.20E+01
					Fe-59	<3.89E+01	0.00E+00	3.89E+01
					Co-60	<2.81E+01	0.00E+00	2.81E+01
					Zn-65	<4.61E+01	0.00E+00	4.61E+01
					Zr-95	<4.04E+01	0.00E+00	4.04E+01
					Nb-95	<2.91E+01	0.00E+00	2.91E+01
					I-131	<2.51E+01	0.00E+00	2.51E+01
					Cs-134	<2.29E+01	0.00E+00	2.29E+01
					Cs-137	<2.58E+01	0.00E+00	2.58E+01
					BaLa-140	<3.14E+01	0.00E+00	3.14E+01
					Be-7	1.11E+03	2.45E+02	2.22E+02
					K-40	2.71E+03	5.10E+02	2.18E+02
Sample ID:	444231	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.02E+01	0.00E+00	2.02E+01
					Co-58	<2.26E+01	0.00E+00	2.26E+01
					Fe-59	<4.84E+01	0.00E+00	4.84E+01
					Co-60	<2.61E+01	0.00E+00	2.61E+01
					Zn-65	<5.13E+01	0.00E+00	5.13E+01
					Zr-95	<3.94E+01	0.00E+00	3.94E+01
					Nb-95	<2.46E+01	0.00E+00	2.46E+01
					I-131	<3.41E+01	0.00E+00	3.41E+01
					Cs-134	<2.65E+01	0.00E+00	2.65E+01
					Cs-137	<3.25E+01	0.00E+00	3.25E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 802 [CONTROL - -- @ 10.1 miles]

Sample ID:	444231	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					BaLa-140	<5.27E+01	0.00E+00	5.27E+01
					Be-7	9.75E+02	2.77E+02	2.96E+02
					K-40	2.20E+03	5.58E+02	4.89E+02
Sample ID:	447137	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.74E+01	0.00E+00	2.74E+01
					Co-58	<2.52E+01	0.00E+00	2.52E+01
					Fe-59	<5.11E+01	0.00E+00	5.11E+01
					Co-60	<2.56E+01	0.00E+00	2.56E+01
					Zn-65	<3.88E+01	0.00E+00	3.88E+01
					Zr-95	<3.50E+01	0.00E+00	3.50E+01
					Nb-95	<2.37E+01	0.00E+00	2.37E+01
					I-131	<2.58E+01	0.00E+00	2.58E+01
					Cs-134	<2.21E+01	0.00E+00	2.21E+01
					Cs-137	<2.65E+01	0.00E+00	2.65E+01
					BaLa-140	<3.47E+01	0.00E+00	3.47E+01
					Be-7	1.08E+03	3.12E+02	3.64E+02
					K-40	1.25E+03	4.54E+02	5.19E+02
Sample ID:	449189	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.34E+01	0.00E+00	2.34E+01
					Co-58	<2.05E+01	0.00E+00	2.05E+01
					Fe-59	<3.82E+01	0.00E+00	3.82E+01
					Co-60	<2.33E+01	0.00E+00	2.33E+01
					Zn-65	<5.68E+01	0.00E+00	5.68E+01
					Zr-95	<4.14E+01	0.00E+00	4.14E+01
					Nb-95	<2.17E+01	0.00E+00	2.17E+01
					I-131	<3.11E+01	0.00E+00	3.11E+01
					Cs-134	<2.72E+01	0.00E+00	2.72E+01
					Cs-137	<2.60E+01	0.00E+00	2.60E+01
					BaLa-140	<2.82E+01	0.00E+00	2.82E+01
					Be-7	1.51E+03	3.06E+02	2.79E+02
					K-40	1.37E+03	3.99E+02	3.89E+02
Sample ID:	451157	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.80E+01	0.00E+00	2.80E+01
					Co-58	<3.44E+01	0.00E+00	3.44E+01
					Fe-59	<5.15E+01	0.00E+00	5.15E+01
					Co-60	<3.05E+01	0.00E+00	3.05E+01
					Zn-65	<7.81E+01	0.00E+00	7.81E+01
					Zr-95	<6.59E+01	0.00E+00	6.59E+01
					Nb-95	<3.51E+01	0.00E+00	3.51E+01
					I-131	<3.39E+01	0.00E+00	3.39E+01
					Cs-134	<4.19E+01	0.00E+00	4.19E+01
					Cs-137	<2.82E+01	0.00E+00	2.82E+01
					BaLa-140	<5.32E+01	0.00E+00	5.32E+01
					Be-7	4.21E+03	6.16E+02	4.06E+02
					K-40	2.43E+03	5.66E+02	3.80E+02
Sample ID:	453412	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.13E+01	0.00E+00	2.13E+01
					Co-58	<2.13E+01	0.00E+00	2.13E+01
					Fe-59	<5.51E+01	0.00E+00	5.51E+01
					Co-60	<2.35E+01	0.00E+00	2.35E+01
					Zn-65	<6.66E+01	0.00E+00	6.66E+01
					Zr-95	<4.37E+01	0.00E+00	4.37E+01
					Nb-95	<2.58E+01	0.00E+00	2.58E+01
					I-131	<2.58E+01	0.00E+00	2.58E+01
					Cs-134	<2.03E+01	0.00E+00	2.03E+01
					Cs-137	<2.43E+01	0.00E+00	2.43E+01
					BaLa-140	<2.25E+01	0.00E+00	2.25E+01
					Be-7	3.77E+03	5.13E+02	1.97E+02
					K-40	1.32E+03	4.30E+02	4.56E+02

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 802 [CONTROL - -- @ 10.1 miles]

Sample ID:	456010	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.16E+01	0.00E+00	2.16E+01
					Co-58	<2.41E+01	0.00E+00	2.41E+01
					Fe-59	<4.23E+01	0.00E+00	4.23E+01
					Co-60	<2.20E+01	0.00E+00	2.20E+01
					Zn-65	<5.01E+01	0.00E+00	5.01E+01
					Zr-95	<3.94E+01	0.00E+00	3.94E+01
					Nb-95	<2.75E+01	0.00E+00	2.75E+01
					I-131	<4.74E+01	0.00E+00	4.74E+01
					Cs-134	<2.41E+01	0.00E+00	2.41E+01
					Cs-137	<2.46E+01	0.00E+00	2.46E+01
					BaLa-140	<4.28E+01	0.00E+00	4.28E+01
					Be-7	5.07E+03	8.11E+02	2.26E+02
					K-40	2.19E+03	3.63E+02	3.40E+02
Sample ID:	463060	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.29E+01	0.00E+00	2.29E+01
					Co-58	<2.03E+01	0.00E+00	2.03E+01
					Fe-59	<4.58E+01	0.00E+00	4.58E+01
					Co-60	<1.85E+01	0.00E+00	1.85E+01
					Zn-65	<3.68E+01	0.00E+00	3.68E+01
					Zr-95	<3.54E+01	0.00E+00	3.54E+01
					Nb-95	<2.61E+01	0.00E+00	2.61E+01
					I-131	<4.11E+01	0.00E+00	4.11E+01
					Cs-134	<2.23E+01	0.00E+00	2.23E+01
					Cs-137	<2.37E+01	0.00E+00	2.37E+01
					BaLa-140	<3.63E+01	0.00E+00	3.63E+01
					Be-7	2.48E+03	3.32E+02	2.91E+02
					K-40	2.10E+03	3.41E+02	2.57E+02

Sample Point 803 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	433082	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.82E+01	0.00E+00	2.82E+01
					Co-58	<1.94E+01	0.00E+00	1.94E+01
					Fe-59	<2.93E+01	0.00E+00	2.93E+01
					Co-60	<2.18E+01	0.00E+00	2.18E+01
					Zn-65	<6.51E+01	0.00E+00	6.51E+01
					Zr-95	<4.43E+01	0.00E+00	4.43E+01
					Nb-95	<2.73E+01	0.00E+00	2.73E+01
					I-131	<2.49E+01	0.00E+00	2.49E+01
					Cs-134	<2.88E+01	0.00E+00	2.88E+01
					Cs-137	<2.21E+01	0.00E+00	2.21E+01
					BaLa-140	<3.38E+01	0.00E+00	3.38E+01
					Be-7	3.59E+03	5.11E+02	2.45E+02
					K-40	1.53E+03	4.52E+02	4.10E+02

Sample ID:	435540	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.47E+01	0.00E+00	2.47E+01
					Co-58	<2.34E+01	0.00E+00	2.34E+01
					Fe-59	<3.84E+01	0.00E+00	3.84E+01
					Co-60	<1.53E+01	0.00E+00	1.53E+01
					Zn-65	<5.41E+01	0.00E+00	5.41E+01
					Zr-95	<3.85E+01	0.00E+00	3.85E+01
					Nb-95	<2.54E+01	0.00E+00	2.54E+01
					I-131	<2.09E+01	0.00E+00	2.09E+01
					Cs-134	<2.77E+01	0.00E+00	2.77E+01
					Cs-137	<2.40E+01	0.00E+00	2.40E+01
					BaLa-140	<3.46E+01	0.00E+00	3.46E+01
					Be-7	2.78E+03	4.46E+02	3.65E+02
					K-40	2.13E+03	5.26E+02	4.87E+02

Sample ID:	438092	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.53E+01	0.00E+00	2.53E+01
					Co-58	<2.58E+01	0.00E+00	2.58E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 803 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	438092	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Fe-59	<6.00E+01	0.00E+00	6.00E+01
					Co-60	<2.49E+01	0.00E+00	2.49E+01
					Zn-65	<6.10E+01	0.00E+00	6.10E+01
					Zr-95	<4.24E+01	0.00E+00	4.24E+01
					Nb-95	<2.58E+01	0.00E+00	2.58E+01
					I-131	<3.40E+01	0.00E+00	3.40E+01
					Cs-134	<2.98E+01	0.00E+00	2.98E+01
					Cs-137	<2.01E+01	0.00E+00	2.01E+01
					BaLa-140	<3.34E+01	0.00E+00	3.34E+01
					Be-7	3.07E+03	4.70E+02	2.72E+02
					K-40	2.57E+03	5.78E+02	4.36E+02
Sample ID:	440774	Sample Dates:	4/1/2017 - 4/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.74E+01	0.00E+00	2.74E+01
					Co-58	<2.77E+01	0.00E+00	2.77E+01
					Fe-59	<5.11E+01	0.00E+00	5.11E+01
					Co-60	<3.46E+01	0.00E+00	3.46E+01
					Zn-65	<4.30E+01	0.00E+00	4.30E+01
					Zr-95	<5.58E+01	0.00E+00	5.58E+01
					Nb-95	<3.55E+01	0.00E+00	3.55E+01
					I-131	<3.59E+01	0.00E+00	3.59E+01
					Cs-134	<2.88E+01	0.00E+00	2.88E+01
					Cs-137	<2.65E+01	0.00E+00	2.65E+01
					BaLa-140	<4.20E+01	0.00E+00	4.20E+01
					Be-7	3.02E+03	5.05E+02	3.68E+02
					K-40	3.14E+03	6.51E+02	3.48E+02
Sample ID:	443050	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.49E+01	0.00E+00	2.49E+01
					Co-58	<1.89E+01	0.00E+00	1.89E+01
					Fe-59	<5.43E+01	0.00E+00	5.43E+01
					Co-60	<2.98E+01	0.00E+00	2.98E+01
					Zn-65	<4.78E+01	0.00E+00	4.78E+01
					Zr-95	<4.95E+01	0.00E+00	4.95E+01
					Nb-95	<2.02E+01	0.00E+00	2.02E+01
					I-131	<2.70E+01	0.00E+00	2.70E+01
					Cs-134	<3.06E+01	0.00E+00	3.06E+01
					Cs-137	<2.14E+01	0.00E+00	2.14E+01
					BaLa-140	<2.35E+01	0.00E+00	2.35E+01
					Be-7	1.12E+03	3.03E+02	3.49E+02
					K-40	3.15E+03	6.29E+02	4.16E+02
Sample ID:	444232	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.91E+01	0.00E+00	1.91E+01
					Co-58	<2.49E+01	0.00E+00	2.49E+01
					Fe-59	<6.32E+01	0.00E+00	6.32E+01
					Co-60	<3.14E+01	0.00E+00	3.14E+01
					Zn-65	<5.54E+01	0.00E+00	5.54E+01
					Zr-95	<4.89E+01	0.00E+00	4.89E+01
					Nb-95	<2.39E+01	0.00E+00	2.39E+01
					I-131	<3.47E+01	0.00E+00	3.47E+01
					Cs-134	<2.44E+01	0.00E+00	2.44E+01
					Cs-137	<2.98E+01	0.00E+00	2.98E+01
					BaLa-140	<2.54E+01	0.00E+00	2.54E+01
					Be-7	9.02E+02	2.75E+02	3.35E+02
					K-40	3.19E+03	6.01E+02	3.30E+02
Sample ID:	447138	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.92E+01	0.00E+00	2.92E+01
					Co-58	<2.54E+01	0.00E+00	2.54E+01
					Fe-59	<5.01E+01	0.00E+00	5.01E+01
					Co-60	<2.02E+01	0.00E+00	2.02E+01
					Zn-65	<6.64E+01	0.00E+00	6.64E+01
					Zr-95	<4.42E+01	0.00E+00	4.42E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 803 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	447138	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Nb-95	<2.42E+01	0.00E+00	2.42E+01
					I-131	<2.46E+01	0.00E+00	2.46E+01
					Cs-134	<3.04E+01	0.00E+00	3.04E+01
					Cs-137	<2.29E+01	0.00E+00	2.29E+01
					BaLa-140	<3.66E+01	0.00E+00	3.66E+01
					Be-7	1.01E+03	2.80E+02	3.18E+02
					K-40	3.37E+03	6.62E+02	4.93E+02
Sample ID:	449190	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.88E+01	0.00E+00	2.88E+01
					Co-58	<2.10E+01	0.00E+00	2.10E+01
					Fe-59	<6.39E+01	0.00E+00	6.39E+01
					Co-60	<3.62E+01	0.00E+00	3.62E+01
					Zn-65	<6.86E+01	0.00E+00	6.86E+01
					Zr-95	<4.08E+01	0.00E+00	4.08E+01
					Nb-95	<2.34E+01	0.00E+00	2.34E+01
					I-131	<4.39E+01	0.00E+00	4.39E+01
					Cs-134	<3.89E+01	0.00E+00	3.89E+01
					Cs-137	<2.93E+01	0.00E+00	2.93E+01
					BaLa-140	<5.18E+01	0.00E+00	5.18E+01
					Be-7	3.55E+03	5.91E+02	4.92E+02
					K-40	3.05E+03	6.84E+02	5.14E+02
Sample ID:	451158	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.18E+01	0.00E+00	2.18E+01
					Co-58	<2.12E+01	0.00E+00	2.12E+01
					Fe-59	<4.65E+01	0.00E+00	4.65E+01
					Co-60	<3.33E+01	0.00E+00	3.33E+01
					Zn-65	<4.85E+01	0.00E+00	4.85E+01
					Zr-95	<4.15E+01	0.00E+00	4.15E+01
					Nb-95	<2.43E+01	0.00E+00	2.43E+01
					I-131	<3.55E+01	0.00E+00	3.55E+01
					Cs-134	<2.43E+01	0.00E+00	2.43E+01
					Cs-137	<2.88E+01	0.00E+00	2.88E+01
					BaLa-140	<4.43E+01	0.00E+00	4.43E+01
					Be-7	1.17E+03	2.91E+02	3.08E+02
					K-40	2.90E+03	5.57E+02	2.18E+02
Sample ID:	453413	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.54E+01	0.00E+00	2.54E+01
					Co-58	<2.80E+01	0.00E+00	2.80E+01
					Fe-59	<4.86E+01	0.00E+00	4.86E+01
					Co-60	<2.51E+01	0.00E+00	2.51E+01
					Zn-65	<3.00E+01	0.00E+00	3.00E+01
					Zr-95	<3.65E+01	0.00E+00	3.65E+01
					Nb-95	<2.22E+01	0.00E+00	2.22E+01
					I-131	<2.43E+01	0.00E+00	2.43E+01
					Cs-134	<3.13E+01	0.00E+00	3.13E+01
					Cs-137	<2.69E+01	0.00E+00	2.69E+01
					BaLa-140	<3.96E+01	0.00E+00	3.96E+01
					Be-7	2.34E+03	4.03E+02	2.94E+02
					K-40	2.74E+03	5.54E+02	6.35E+01
Sample ID:	456011	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.30E+01	0.00E+00	2.30E+01
					Co-58	<2.18E+01	0.00E+00	2.18E+01
					Fe-59	<4.55E+01	0.00E+00	4.55E+01
					Co-60	<2.00E+01	0.00E+00	2.00E+01
					Zn-65	<5.01E+01	0.00E+00	5.01E+01
					Zr-95	<3.94E+01	0.00E+00	3.94E+01
					Nb-95	<2.74E+01	0.00E+00	2.74E+01
					I-131	<4.79E+01	0.00E+00	4.79E+01
					Cs-134	<2.20E+01	0.00E+00	2.20E+01
					Cs-137	<2.27E+01	0.00E+00	2.27E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 803 [INDICATOR - SSE @ 0.6 miles]

Sample ID:	456011	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				BaLa-140	<4.61E+01	0.00E+00	4.61E+01	
				Be-7	3.43E+03	3.98E+02	2.99E+02	
				K-40	4.10E+03	5.07E+02	3.30E+02	

Sample ID:	463061	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.39E+01	0.00E+00	2.39E+01	
				Co-58	<2.17E+01	0.00E+00	2.17E+01	
				Fe-59	<4.73E+01	0.00E+00	4.73E+01	
				Co-60	<2.41E+01	0.00E+00	2.41E+01	
				Zn-65	<5.46E+01	0.00E+00	5.46E+01	
				Zr-95	<4.66E+01	0.00E+00	4.66E+01	
				Nb-95	<2.84E+01	0.00E+00	2.84E+01	
				I-131	<4.61E+01	0.00E+00	4.61E+01	
				Cs-134	<2.25E+01	0.00E+00	2.25E+01	
				Cs-137	<2.26E+01	0.00E+00	2.26E+01	
				BaLa-140	<4.13E+01	0.00E+00	4.13E+01	
				Be-7	2.09E+03	3.36E+02	3.37E+02	
				K-40	2.74E+03	4.57E+02	3.63E+02	

Sample Point 804 [INDICATOR - S @ 0.7 miles]

Sample ID:	433083	Sample Dates:	1/3/2017 - 1/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.86E+01	0.00E+00	1.86E+01	
				Co-58	<2.75E+01	0.00E+00	2.75E+01	
				Fe-59	<4.24E+01	0.00E+00	4.24E+01	
				Co-60	<2.48E+01	0.00E+00	2.48E+01	
				Zn-65	<5.07E+01	0.00E+00	5.07E+01	
				Zr-95	<4.08E+01	0.00E+00	4.08E+01	
				Nb-95	<2.18E+01	0.00E+00	2.18E+01	
				I-131	<2.52E+01	0.00E+00	2.52E+01	
				Cs-134	<2.52E+01	0.00E+00	2.52E+01	
				Cs-137	<2.59E+01	0.00E+00	2.59E+01	
				BaLa-140	<3.32E+01	0.00E+00	3.32E+01	
				Be-7	1.25E+03	2.97E+02	3.15E+02	
				K-40	1.73E+03	4.23E+02	2.67E+02	

Sample ID:	435541	Sample Dates:	2/1/2017 - 2/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.07E+01	0.00E+00	2.07E+01	
				Co-58	<2.71E+01	0.00E+00	2.71E+01	
				Fe-59	<5.08E+01	0.00E+00	5.08E+01	
				Co-60	<3.29E+01	0.00E+00	3.29E+01	
				Zn-65	<6.16E+01	0.00E+00	6.16E+01	
				Zr-95	<4.68E+01	0.00E+00	4.68E+01	
				Nb-95	<3.40E+01	0.00E+00	3.40E+01	
				I-131	<2.30E+01	0.00E+00	2.30E+01	
				Cs-134	<4.01E+01	0.00E+00	4.01E+01	
				Cs-137	<2.51E+01	0.00E+00	2.51E+01	
				BaLa-140	<3.82E+01	0.00E+00	3.82E+01	
				Be-7	2.81E+03	4.42E+02	2.41E+02	
				K-40	2.61E+03	5.84E+02	3.78E+02	

Sample ID:	438093	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.83E+01	0.00E+00	2.83E+01	
				Co-58	<2.60E+01	0.00E+00	2.60E+01	
				Fe-59	<4.83E+01	0.00E+00	4.83E+01	
				Co-60	<2.95E+01	0.00E+00	2.95E+01	
				Zn-65	<4.64E+01	0.00E+00	4.64E+01	
				Zr-95	<4.78E+01	0.00E+00	4.78E+01	
				Nb-95	<2.75E+01	0.00E+00	2.75E+01	
				I-131	<3.26E+01	0.00E+00	3.26E+01	
				Cs-134	<2.85E+01	0.00E+00	2.85E+01	
				Cs-137	<2.97E+01	0.00E+00	2.97E+01	
				BaLa-140	<4.62E+01	0.00E+00	4.62E+01	
				Be-7	1.98E+03	3.74E+02	2.71E+02	

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 804 [INDICATOR - S @ 0.7 miles]

Sample ID:	438093	Sample Dates:	3/1/2017 - 3/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					K-40	1.98E+03	5.08E+02	3.87E+02
Sample ID:	440775	Sample Dates:	4/1/2017 - 4/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.91E+01	0.00E+00	2.91E+01
					Co-58	<2.32E+01	0.00E+00	2.32E+01
					Fe-59	<4.44E+01	0.00E+00	4.44E+01
					Co-60	<1.96E+01	0.00E+00	1.96E+01
					Zn-65	<5.19E+01	0.00E+00	5.19E+01
					Zr-95	<3.58E+01	0.00E+00	3.58E+01
					Nb-95	<2.41E+01	0.00E+00	2.41E+01
					I-131	<3.00E+01	0.00E+00	3.00E+01
					Cs-134	<2.82E+01	0.00E+00	2.82E+01
					Cs-137	<2.89E+01	0.00E+00	2.89E+01
					BaLa-140	<3.35E+01	0.00E+00	3.35E+01
					Be-7	2.24E+03	3.79E+02	2.74E+02
					K-40	2.22E+03	5.11E+02	3.86E+02
Sample ID:	443051	Sample Dates:	5/1/2017 - 5/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.54E+01	0.00E+00	2.54E+01
					Co-58	<2.55E+01	0.00E+00	2.55E+01
					Fe-59	<6.50E+01	0.00E+00	6.50E+01
					Co-60	<2.28E+01	0.00E+00	2.28E+01
					Zn-65	<5.63E+01	0.00E+00	5.63E+01
					Zr-95	<3.17E+01	0.00E+00	3.17E+01
					Nb-95	<2.50E+01	0.00E+00	2.50E+01
					I-131	<2.66E+01	0.00E+00	2.66E+01
					Cs-134	<2.28E+01	0.00E+00	2.28E+01
					Cs-137	<2.31E+01	0.00E+00	2.31E+01
					BaLa-140	<3.21E+01	0.00E+00	3.21E+01
					Be-7	4.68E+02	2.10E+02	2.75E+02
					K-40	2.84E+03	5.76E+02	6.68E+01
Sample ID:	444233	Sample Dates:	6/1/2017 - 6/1/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.31E+01	0.00E+00	2.31E+01
					Co-58	<2.14E+01	0.00E+00	2.14E+01
					Fe-59	<5.81E+01	0.00E+00	5.81E+01
					Co-60	<2.83E+01	0.00E+00	2.83E+01
					Zn-65	<5.30E+01	0.00E+00	5.30E+01
					Zr-95	<5.14E+01	0.00E+00	5.14E+01
					Nb-95	<2.71E+01	0.00E+00	2.71E+01
					I-131	<2.59E+01	0.00E+00	2.59E+01
					Cs-134	<2.19E+01	0.00E+00	2.19E+01
					Cs-137	<2.00E+01	0.00E+00	2.00E+01
					BaLa-140	<3.07E+01	0.00E+00	3.07E+01
					Be-7	8.90E+02	2.33E+02	2.34E+02
					K-40	2.47E+03	5.06E+02	2.88E+02
Sample ID:	447139	Sample Dates:	7/5/2017 - 7/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.08E+01	0.00E+00	3.08E+01
					Co-58	<2.50E+01	0.00E+00	2.50E+01
					Fe-59	<4.17E+01	0.00E+00	4.17E+01
					Co-60	<3.33E+01	0.00E+00	3.33E+01
					Zn-65	<4.99E+01	0.00E+00	4.99E+01
					Zr-95	<5.45E+01	0.00E+00	5.45E+01
					Nb-95	<3.02E+01	0.00E+00	3.02E+01
					I-131	<3.79E+01	0.00E+00	3.79E+01
					Cs-134	<3.44E+01	0.00E+00	3.44E+01
					Cs-137	<2.86E+01	0.00E+00	2.86E+01
					BaLa-140	<3.43E+01	0.00E+00	3.43E+01
					Be-7	1.30E+03	3.03E+02	2.85E+02
					K-40	2.89E+03	5.95E+02	3.35E+02
Sample ID:	449191	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.65E+01	0.00E+00	2.65E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 804 [INDICATOR - S @ 0.7 miles]

Sample ID:	449191	Sample Dates:	8/2/2017 - 8/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Co-58	<3.13E+01	0.00E+00	3.13E+01
					Fe-59	<6.63E+01	0.00E+00	6.63E+01
					Co-60	<4.80E+01	0.00E+00	4.80E+01
					Zn-65	<7.47E+01	0.00E+00	7.47E+01
					Zr-95	<4.69E+01	0.00E+00	4.69E+01
					Nb-95	<3.13E+01	0.00E+00	3.13E+01
					I-131	<3.36E+01	0.00E+00	3.36E+01
					Cs-134	<3.13E+01	0.00E+00	3.13E+01
					Cs-137	<2.55E+01	0.00E+00	2.55E+01
					BaLa-140	<1.08E+01	0.00E+00	1.08E+01
					Be-7	1.93E+03	3.87E+02	3.33E+02
					K-40	2.79E+03	6.03E+02	3.28E+02
Sample ID:	451159	Sample Dates:	9/5/2017 - 9/5/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.07E+01	0.00E+00	2.07E+01
					Co-58	<2.49E+01	0.00E+00	2.49E+01
					Fe-59	<3.62E+01	0.00E+00	3.62E+01
					Co-60	<1.85E+01	0.00E+00	1.85E+01
					Zn-65	<9.50E+00	0.00E+00	9.50E+00
					Zr-95	<3.74E+01	0.00E+00	3.74E+01
					Nb-95	<2.43E+01	0.00E+00	2.43E+01
					I-131	<2.94E+01	0.00E+00	2.94E+01
					Cs-134	<2.17E+01	0.00E+00	2.17E+01
					Cs-137	<2.90E+01	0.00E+00	2.90E+01
					BaLa-140	<2.56E+01	0.00E+00	2.56E+01
					Be-7	1.66E+03	3.08E+02	2.21E+02
					K-40	2.45E+03	4.92E+02	2.15E+02
Sample ID:	453414	Sample Dates:	10/2/2017 - 10/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.71E+01	0.00E+00	1.71E+01
					Co-58	<2.08E+01	0.00E+00	2.08E+01
					Fe-59	<3.24E+01	0.00E+00	3.24E+01
					Co-60	<2.28E+01	0.00E+00	2.28E+01
					Zn-65	<5.26E+01	0.00E+00	5.26E+01
					Zr-95	<3.79E+01	0.00E+00	3.79E+01
					Nb-95	<2.33E+01	0.00E+00	2.33E+01
					I-131	<2.21E+01	0.00E+00	2.21E+01
					Cs-134	<2.55E+01	0.00E+00	2.55E+01
					Cs-137	<2.20E+01	0.00E+00	2.20E+01
					BaLa-140	<2.89E+01	0.00E+00	2.89E+01
					Be-7	1.36E+03	2.73E+02	2.25E+02
					K-40	1.80E+03	4.25E+02	3.00E+02
Sample ID:	456012	Sample Dates:	11/2/2017 - 11/2/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.28E+01	0.00E+00	2.28E+01
					Co-58	<2.30E+01	0.00E+00	2.30E+01
					Fe-59	<4.70E+01	0.00E+00	4.70E+01
					Co-60	<2.45E+01	0.00E+00	2.45E+01
					Zn-65	<5.06E+01	0.00E+00	5.06E+01
					Zr-95	<4.51E+01	0.00E+00	4.51E+01
					Nb-95	<2.81E+01	0.00E+00	2.81E+01
					I-131	<4.50E+01	0.00E+00	4.50E+01
					Cs-134	<2.37E+01	0.00E+00	2.37E+01
					Cs-137	<2.22E+01	0.00E+00	2.22E+01
					BaLa-140	<4.05E+01	0.00E+00	4.05E+01
					Be-7	2.82E+03	3.61E+02	3.02E+02
					K-40	3.49E+03	7.82E+02	2.85E+02
Sample ID:	463062	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.94E+01	0.00E+00	2.94E+01
					Co-58	<3.58E+01	0.00E+00	3.58E+01
					Fe-59	<6.02E+01	0.00E+00	6.02E+01
					Co-60	<3.22E+01	0.00E+00	3.22E+01
					Zn-65	<6.12E+01	0.00E+00	6.12E+01

BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2017 (Appendix E)

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

Sample Point 804 [INDICATOR - S @ 0.7 miles]

Sample ID:	463062	Sample Dates:	12/3/2017 - 12/3/2017	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	MDA
				Zr-95	<4.92E+01	0.00E+00	4.92E+01	
				Nb-95	<3.09E+01	0.00E+00	3.09E+01	
				I-131	<4.75E+01	0.00E+00	4.75E+01	
				Cs-134	<3.05E+01	0.00E+00	3.05E+01	
				Cs-137	<3.02E+01	0.00E+00	3.02E+01	
				BaLa-140	<5.58E+01	0.00E+00	5.58E+01	
				Be-7	1.77E+03	3.57E+02	3.75E+02	
				K-40	2.11E+03	5.31E+02	5.74E+02	

APPENDIX F

ERRATA TO

PREVIOUS REPORTS

APPENDIX F

ERRATA TO THE 2017 BSEP AREOR

There are no errata to be appended to the 2017 BSEP AREOR.