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U.S. Nuclear Regulatory Commission  
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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 for 2015

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, Inc., is submitting the enclosed Radiological Environmental Operating Report for 2015.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager - Regulatory Affairs, at (910) 457-2487.

Sincerely,

Annette H. Pope  
Director – Organizational Effectiveness  
Brunswick Steam Electric Plant

MAT/mat

Enclosure: Annual Radiological Environmental Operating Report for 2015

IE25  
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**Annual Radiological Environmental Operating Report  
for 2015**



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# **ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT**

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

**2015**





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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
BO	Benthic Organisms
BSEP	Brunswick Steam Electric Plant
C	Control
CR	Condition Report - Corrective Action Program
EPA	Environmental Protection Agency
ERA	Environmental Resource Associates
EZA	Eckert & Ziegler Analytics, Inc.
FSS	Fleet Scientific Services
GEL	General Engineering Laboratories, Inc.
GPS	Global Positioning System
GW	Ground water
HEEC	Harris Energy & Environmental Center
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
MWe	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 <sup>3</sup>	picocurie per cubic meter
PIP	Problem Investigation Program
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

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# 1.0 EXECUTIVE SUMMARY

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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, 2015, through December 31, 2015.

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 # 02021801 and NCR # 02022587). One thousand eight hundred and eleven samples were analyzed comprising 2,054 test results in order to compile data for the 2015 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 2015 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.

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## 2.0 INTRODUCTION

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### 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 Chemical (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 coal-fired station is composed of two units rated at 55 MWe each.

Although the contribution to background radiation is small, Duke Energy Progress, LLC has established the Radiological Environmental Monitoring Program 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 2.1-14 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 and 2.1-B.

## **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 42 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. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by the BSEP ODCM, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in 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-C.

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

### **2.3.3 TREND IDENTIFICATION**

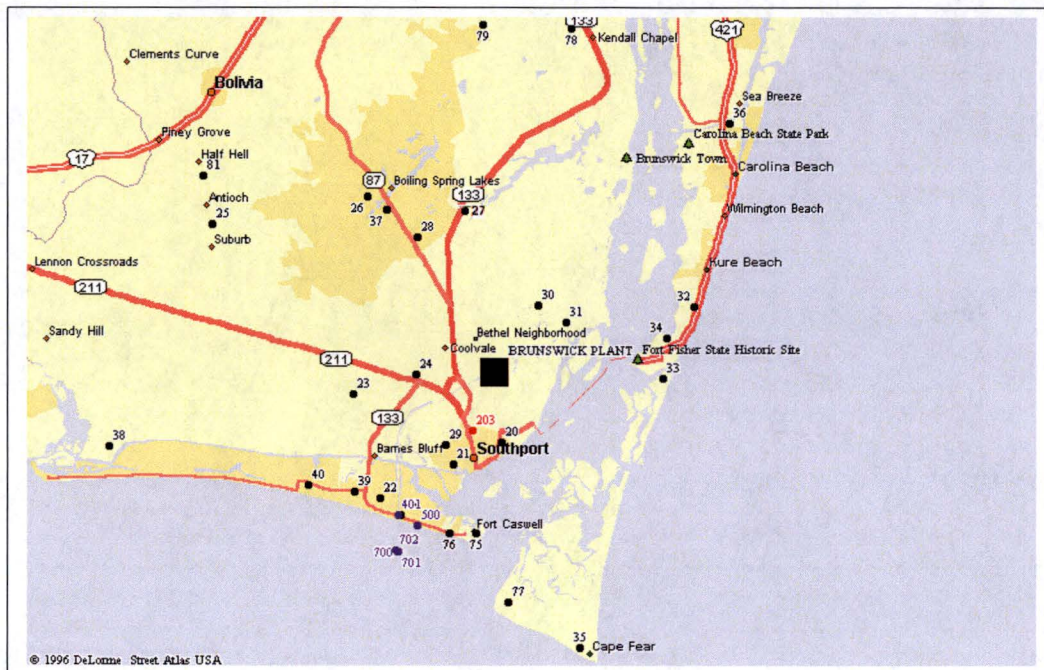
One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend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

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



**Figure 2.1-1**

**BSEP Radiological Environmental Sampling Locations  
(Distant from Plant)**



Stations not illustrated:

204 (Sutton Plant in Wilmington)

206 (Brunswick County Complex) - (Control Air Stations)

703, 704, 705 (Location not Specified in the Atlantic Ocean)(Control Fish Station)

802 (Location not specified) (Control Vegetation)





Figure 2.1-3

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

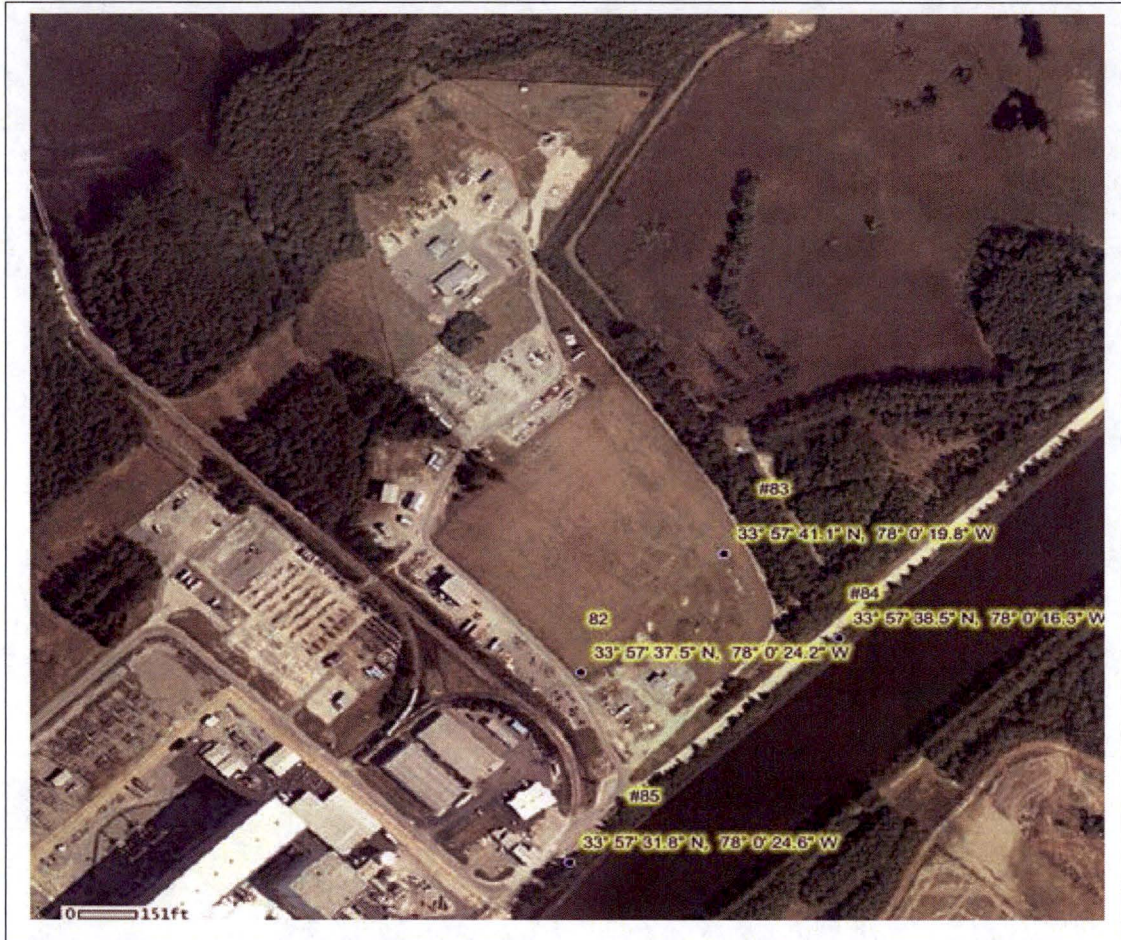




Figure 2.1-4

Radiological Environmental Sampling Locations

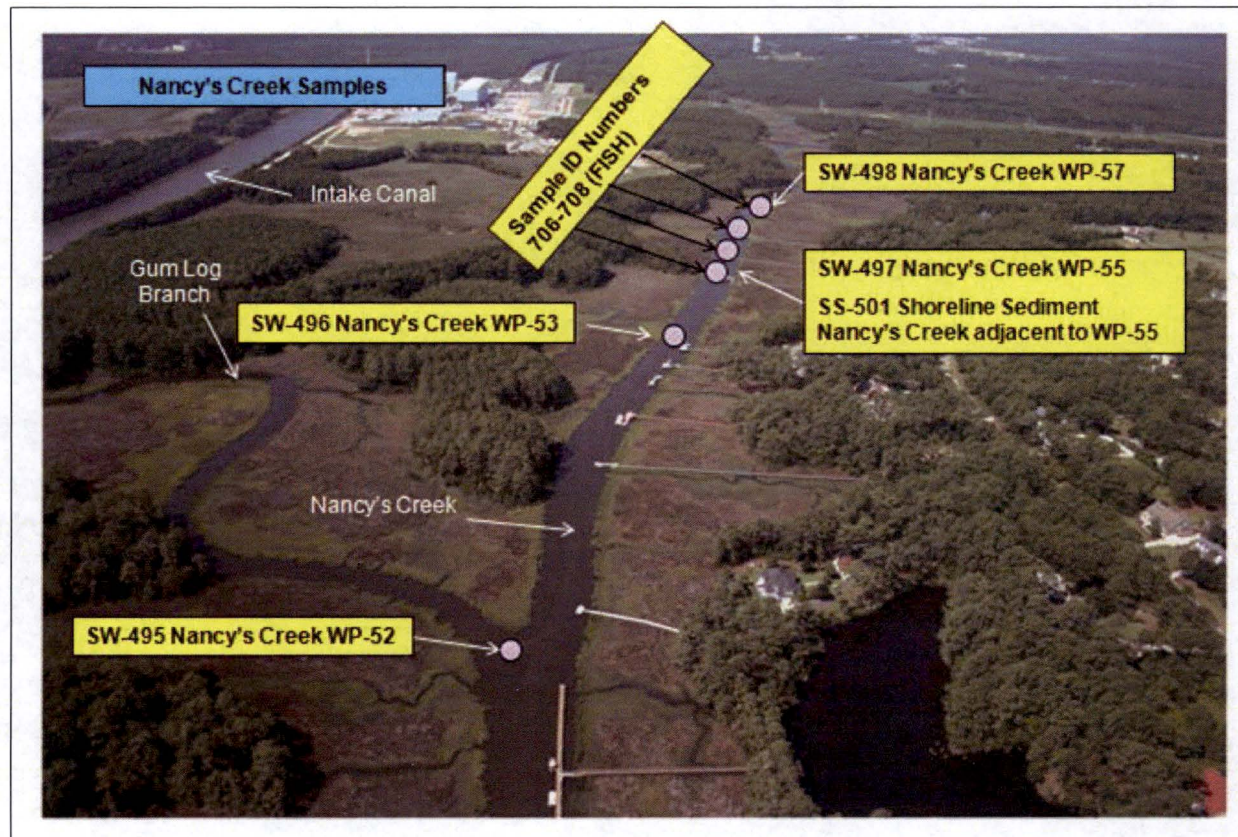




Figure 2.1-5

Radiological Environmental Sampling Locations (Continued)

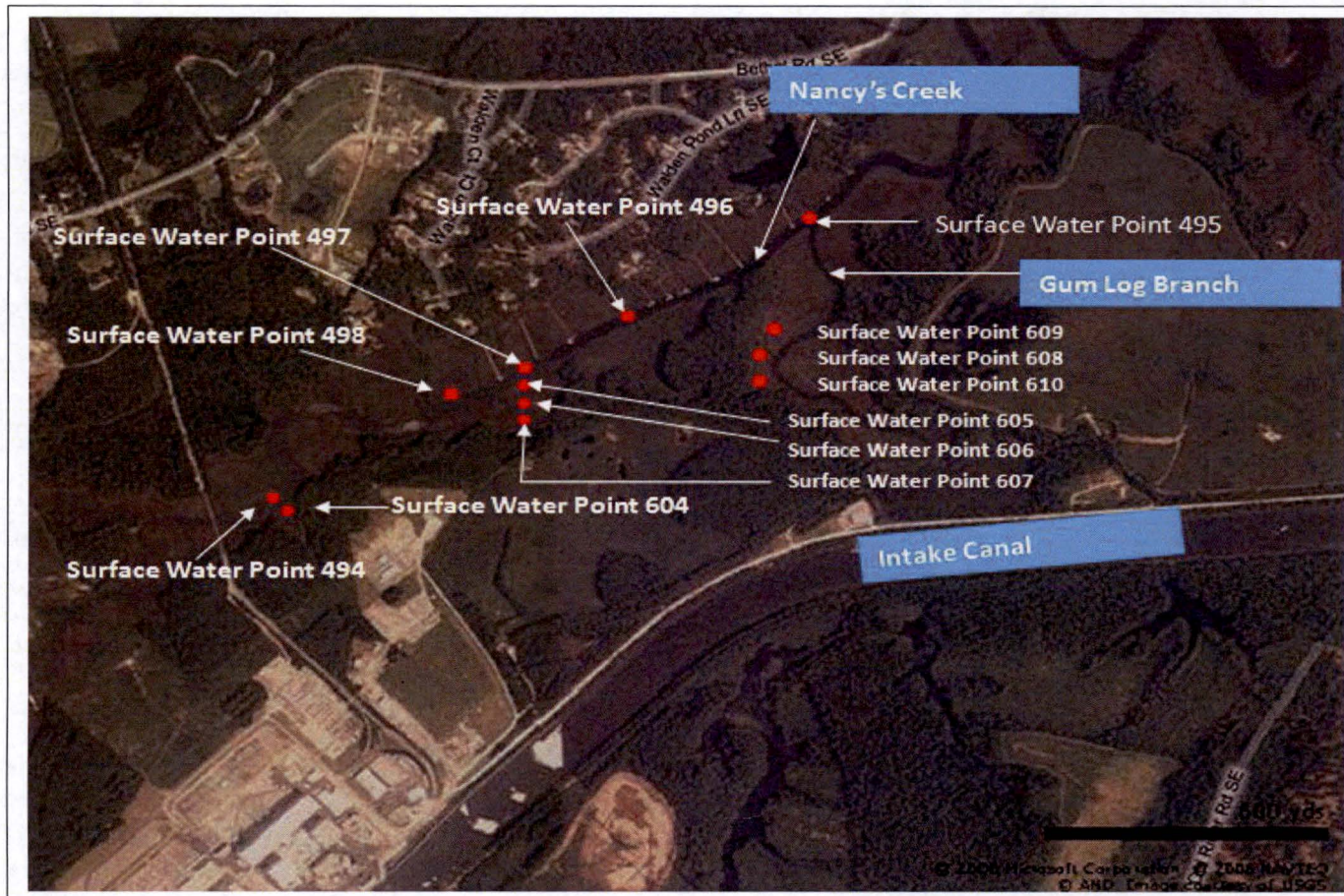




Figure 2.1-6

Radiological Environmental Sampling Locations (Continued)

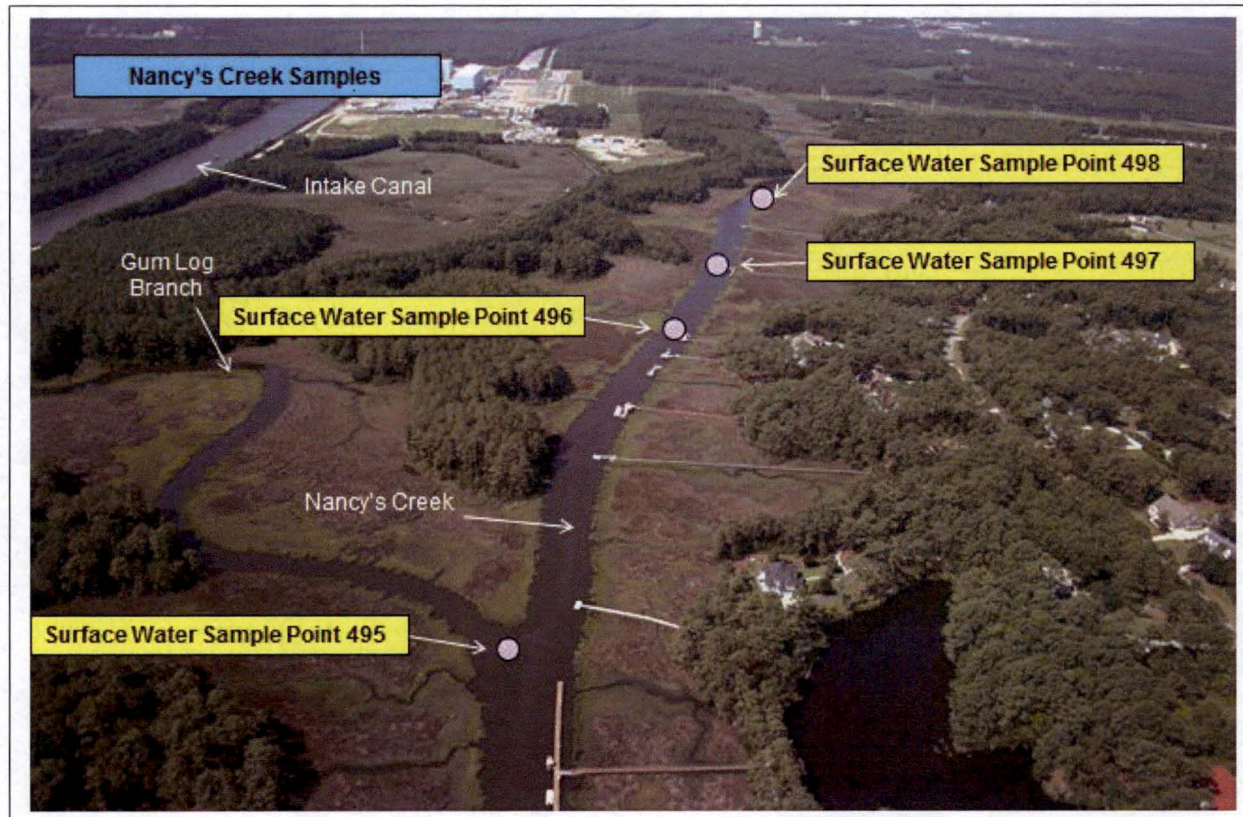




Figure 2.1-7

Radiological Environmental Sampling Locations (Continued)

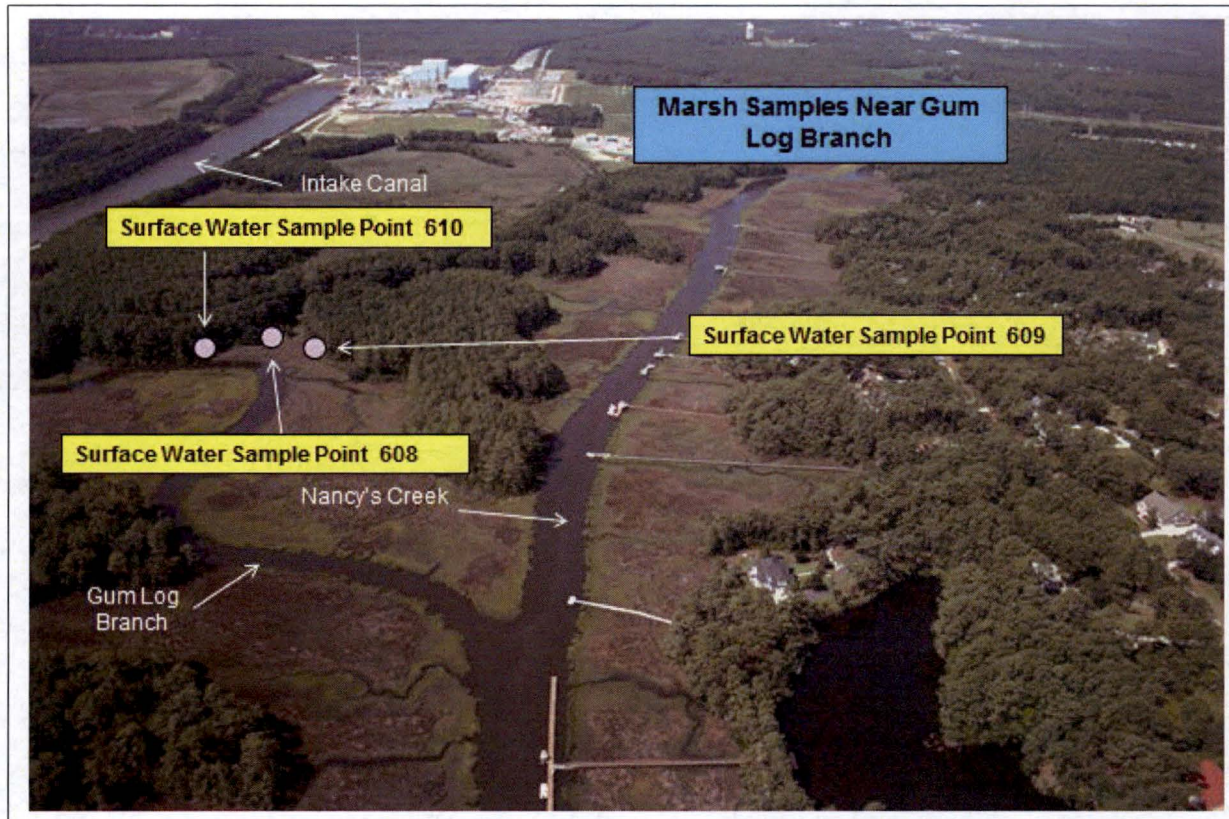




Figure 2.1-8

Radiological Environmental Sampling Locations (Continued)

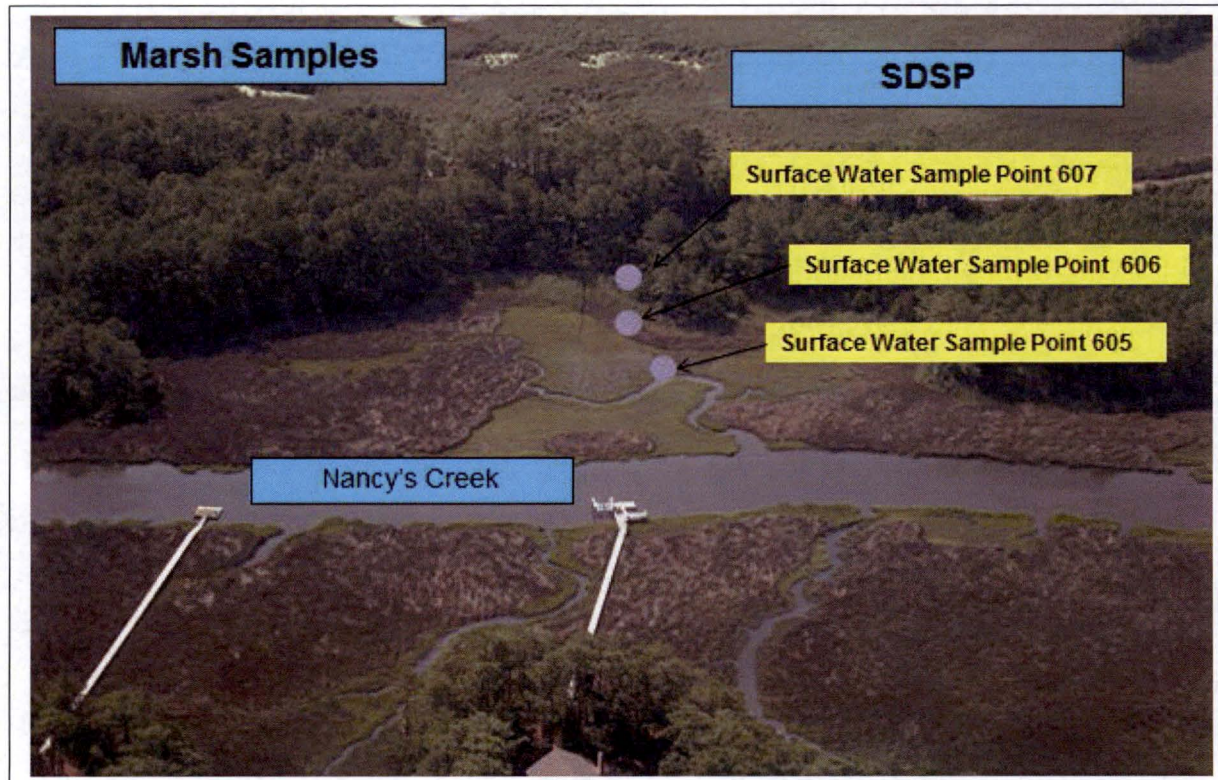




Figure 2.1-9

Radiological Environmental Sampling Locations (Continued)

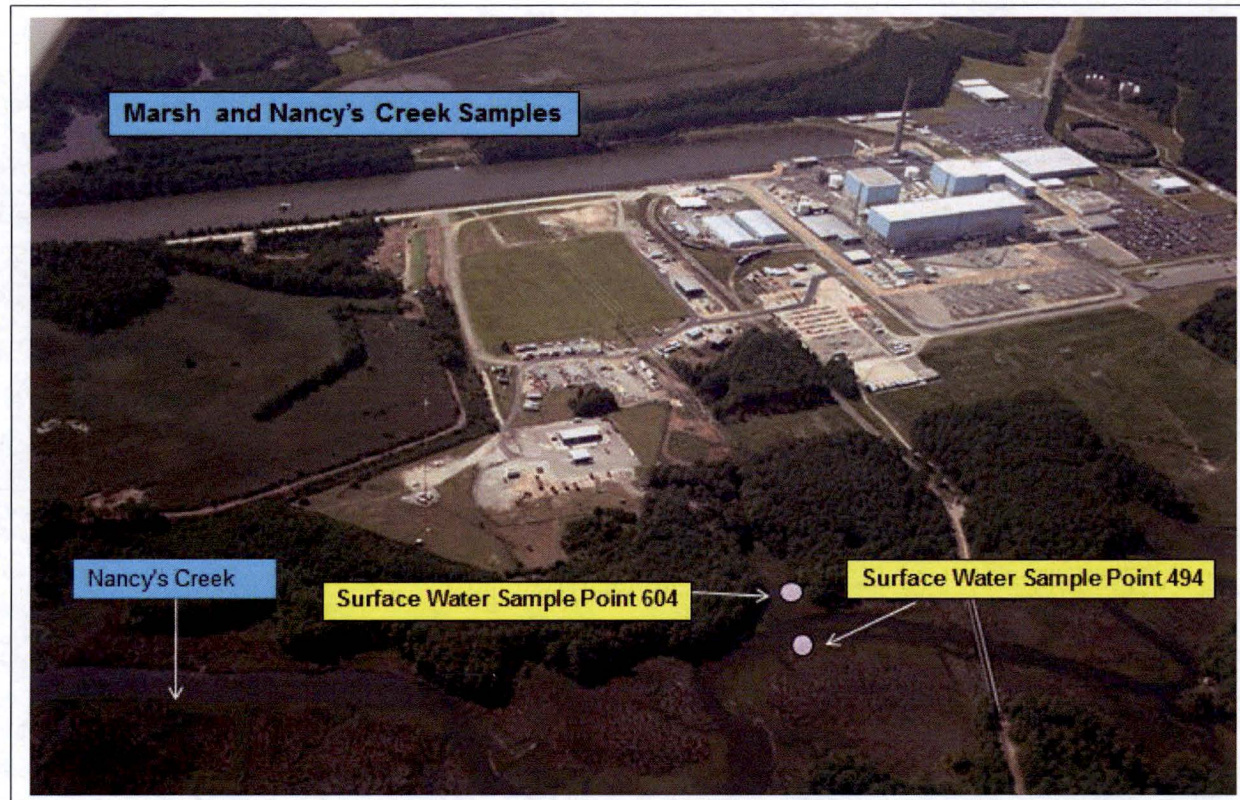
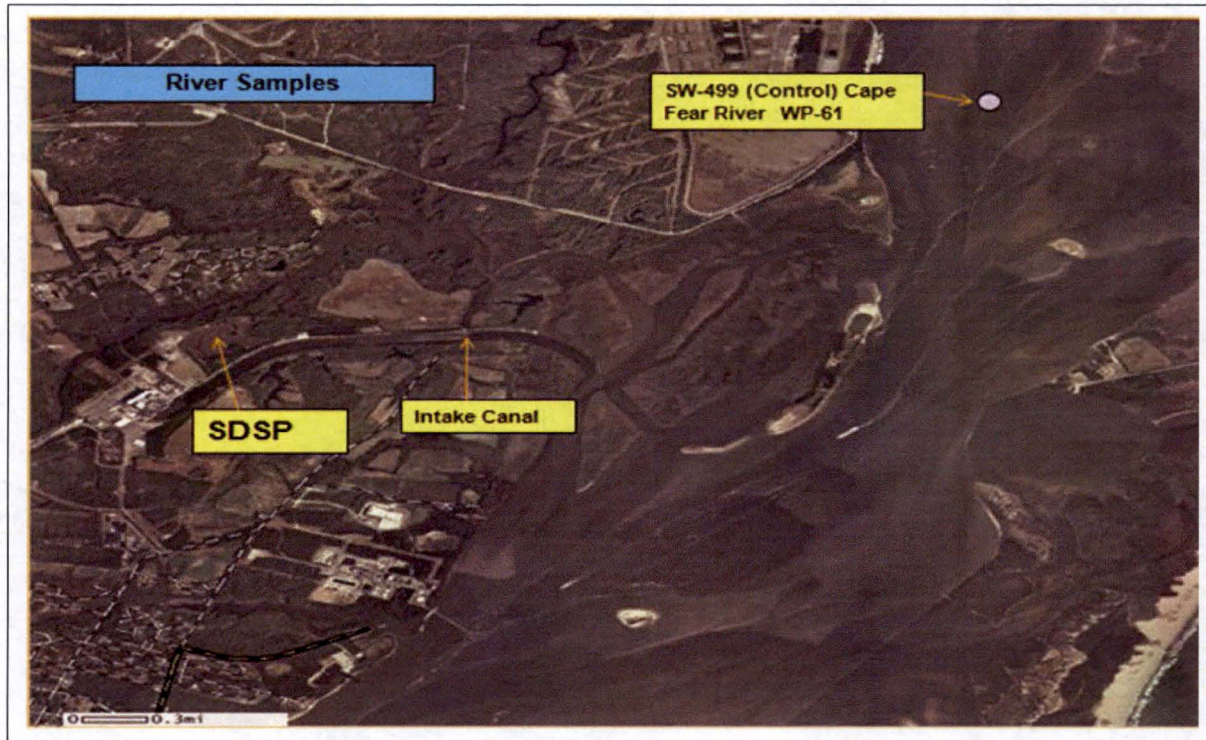




Figure 2.1-10

Radiological Environmental Sampling Locations (Continued)



SDSP: Storm Drain Stabilization Pond







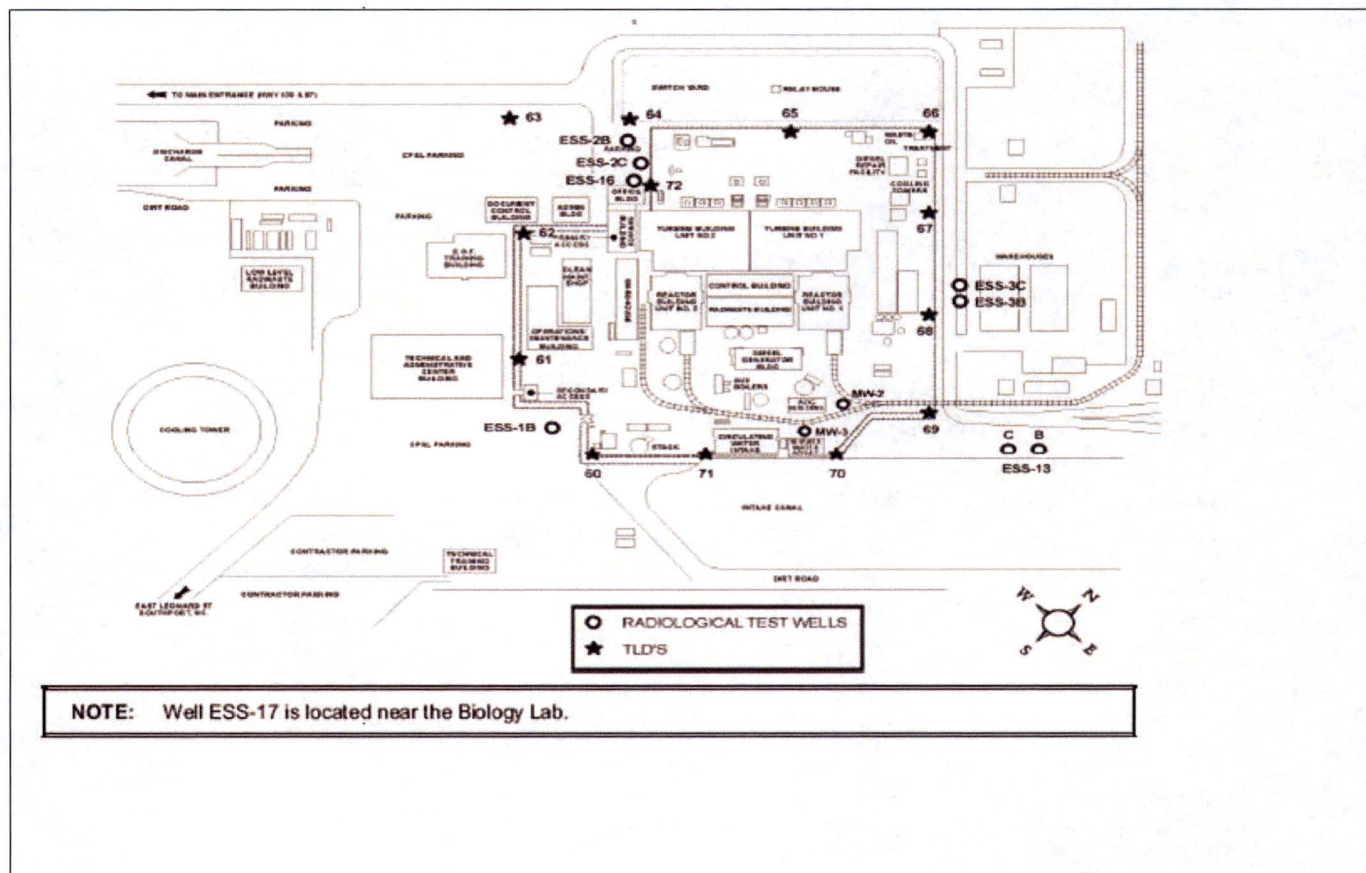
Figure 2.1-12

Radiological Environmental Sampling Locations – Wells (Continued)



Figure 2.1-13

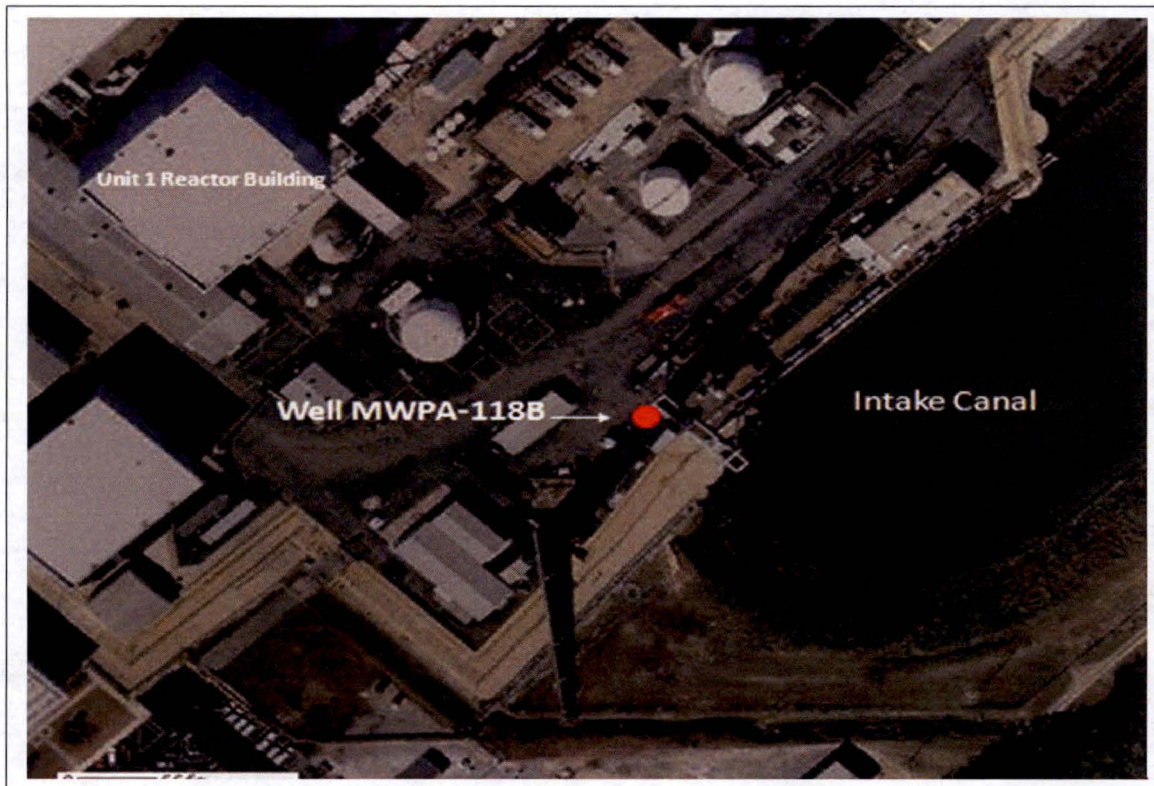
Radiological Environmental Sampling Locations – Wells (Continued)





**Figure 2.1-14**

**Radiological Environmental Sampling Locations – Wells (Continued)**



**TABLE 2.1-A**

**BRUNSWICK STEAM ELECTRIC PLANT (BSEP)  
RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS**

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 Marsh 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 <sup>(b)(c)</sup>		
701	I	5.5 miles SSW – Atlantic Ocean @ discharge (Bottom Feeders)				SA <sup>(b)(c)</sup>		
702	I	5.5 miles SSW – Atlantic Ocean @ discharge (Shellfish/Invertebrates)				SA <sup>(b)(c)</sup>		
703	C	Atlantic Ocean; location not specified (Free Swimmer)				SA <sup>(b)(c)</sup>		
704	C	Atlantic Ocean; location not specified (Bottom Feeder)				SA <sup>(b)(c)</sup>		
705	C	Atlantic Ocean; location not specified (Shellfish/Invertebrates)				SA <sup>(b)(c)</sup>		

**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 <sup>(b)</sup>		
707	I	Nancy's Creek; location not specified (Bottom Feeder)				A <sup>(b)</sup>		
708	I	Nancy's Creek; location not specified (Shellfish/Invertebrates)				A <sup>(b)</sup>		
800	I	0.7 miles NE – Intake Canal					M <sup>(a)</sup>	
801	I	0.8 miles SW – Discharge Canal					M <sup>(a)</sup>	
802	C	10.1 miles – Location not Specified					M <sup>(a)</sup>	
803	I	0.6 miles SSE – Spoil Pond					M <sup>(a)</sup>	
804	I	0.7 miles S – Leonard Street plant exit adjacent to RR tracks					M <sup>(a)</sup>	

(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)**

**RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)**

Table 2.1-B 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 <sup>3</sup> )	Fish (pCi/kg, wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg)
H-3	30,000				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	2	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

**TABLE 2.2-B**

**REMP ANALYSIS FREQUENCY**

Sample Medium	Analysis Schedule	Gamma Isotopic	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 <sup>(a)</sup>	Semiannually (700 - 705)	X			
	Annually (706 - 708)	X	X		
Broadleaf Vegetation <sup>(b)</sup>	Monthly <sup>(b)</sup>	X			

- (a) Edible portions
- (b) When available

**TABLE 2.2-C**

**DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSIS<sup>(a)</sup>  
LOWER LIMIT OF DETECTION (LLD)<sup>(b)(d)</sup>**

Analysis	Water (pCi/liter)	Airborne Particulates or Gases (pCi/m <sup>3</sup> )	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 <sup>(c)</sup>	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 March Area principal gamma isotopic and I-131. The LLD for the Nancy's Creek March Area gamma isotopic is  $5 \times 10^{-7}$   $\mu$ Ci/ml for Principal Gamma Emitters and  $1 \times 10^{-6}$   $\mu$ Ci/ml for I-131.

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## **3.0 INTERPRETATION OF RESULTS**

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The following section depicts and explains the review of the REMP results conducted during 2015 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 2015 REMP analysis results was performed to identify changes in environmental levels as a result of BSEP operations. Sample data for 2015 was compared to preoperational and historical data. Summary tables containing 2015 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. Other radionuclides detected that are the result of plant operation, but not required for reporting, are trended.

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 2015 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 2015 indicates that radioactivity concentrations were not higher than expected and all positively identified measurements attributable to BSEP operations in 2015 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 2015 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 364 air cartridge/radioiodine (AR) samples from the indicator (260 samples) and the control (104 samples) stations had I-131 concentrations less than the ODCM LLD of  $7.00\text{E-}2$  pCi/m<sup>3</sup>. The air samplers operated for a total of 99.88% availability for the 2015 year. No I-131 activity due to BSEP operations was identified in any indicator or control samples in 2015.

For the period of January 1, 2015, to December 31, 2015, 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 260 indicator samples had an average concentration of  $1.55E-2$  pCi/m<sup>3</sup> (a value lower than the preoperational data) and the average gross beta concentration measured in 104 AP samples collected at control stations during 2015 was  $1.60E-2$  pCi/m<sup>3</sup>. The preoperational (1973 – 1974) average concentration of  $8.2E-2$  pCi/m<sup>3</sup>, while the average activity in the recent past (2007 – 2014) was  $1.92E-2$  pCi/m<sup>3</sup>. The airborne concentrations of gross beta activity in 2015 are indicative of natural background and do not indicate any activities originating from the nuclear operations at BSEP. Figures 3.1-1 through 3.1-6 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location (AP-204) for the year 2015. No plant-related gamma activity was observed for any air particulate filters analyzed during 2015. 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 2015 collection year.

No plant-related gamma activity was detected in quarterly composite filter samples from either the indicator or control locations during 2015. BSEP ODCM LLDs and reporting levels for air particulates are contained in Section 2.0 in Table 2.2-C and 2.2-A respectively.

**Figure 3.1-1**

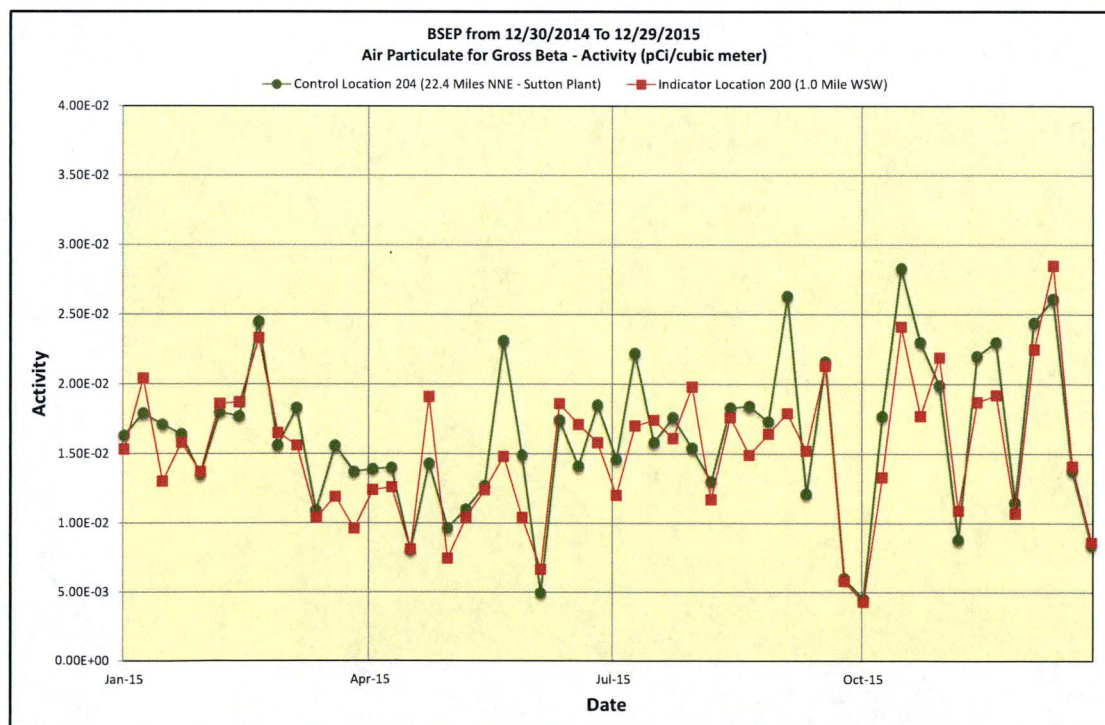




Figure 3.1-2

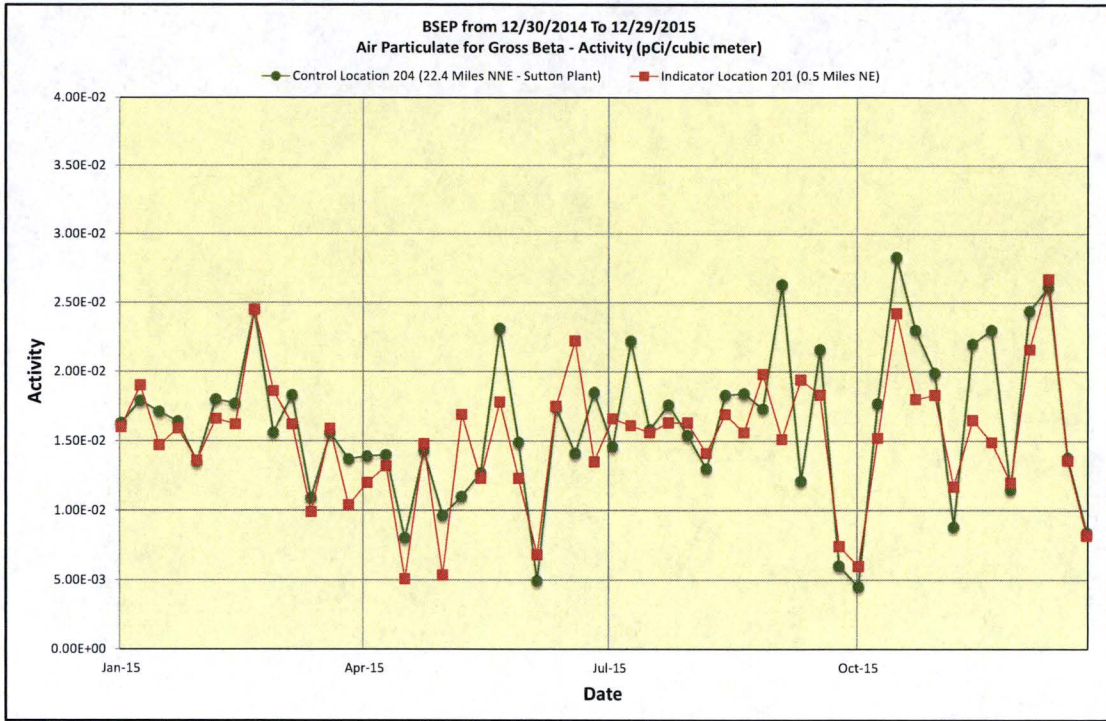


Figure 3.1-3

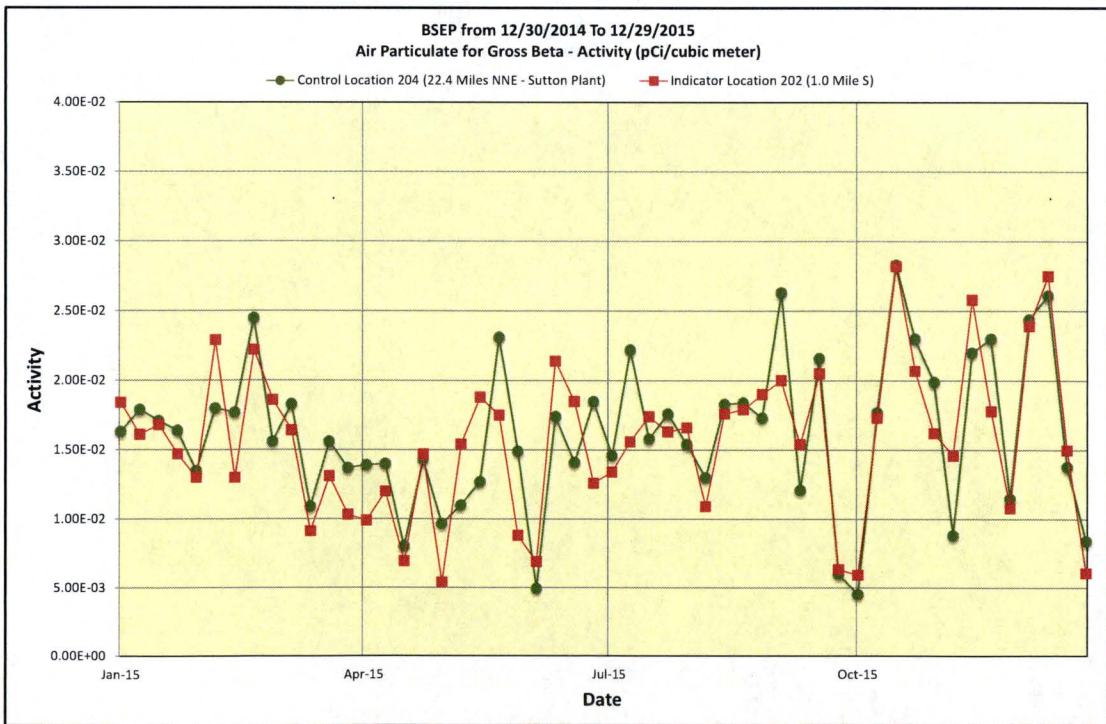


Figure 3.1-4

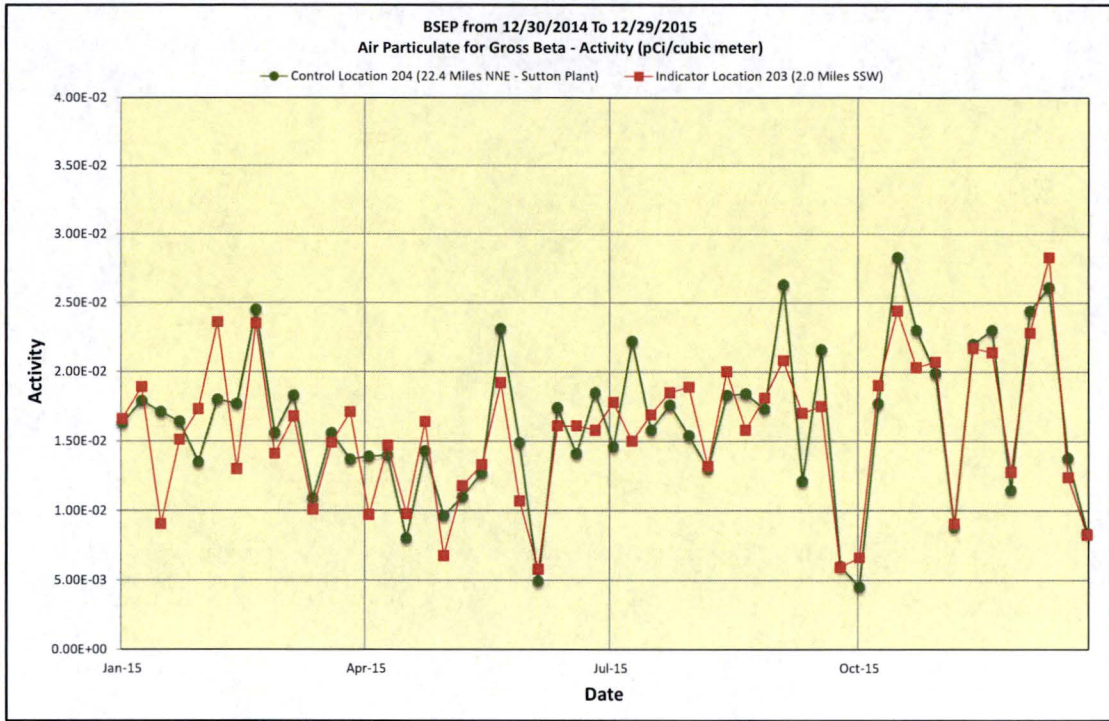


Figure 3.1-5

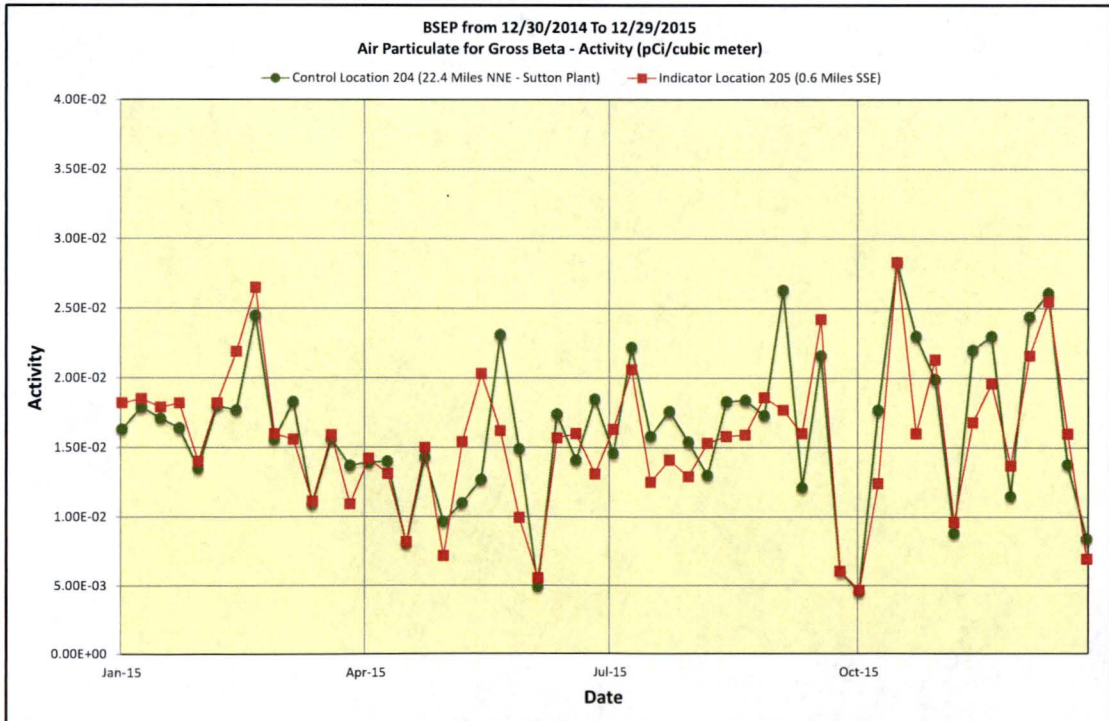
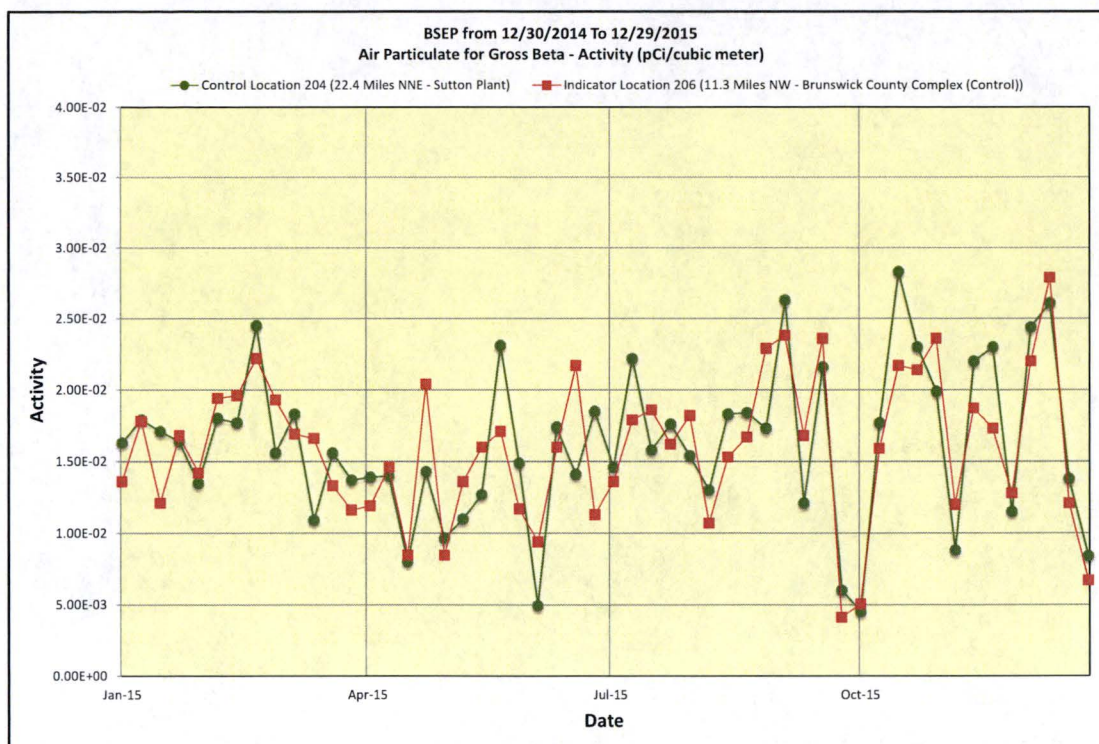




Figure 3.1-6



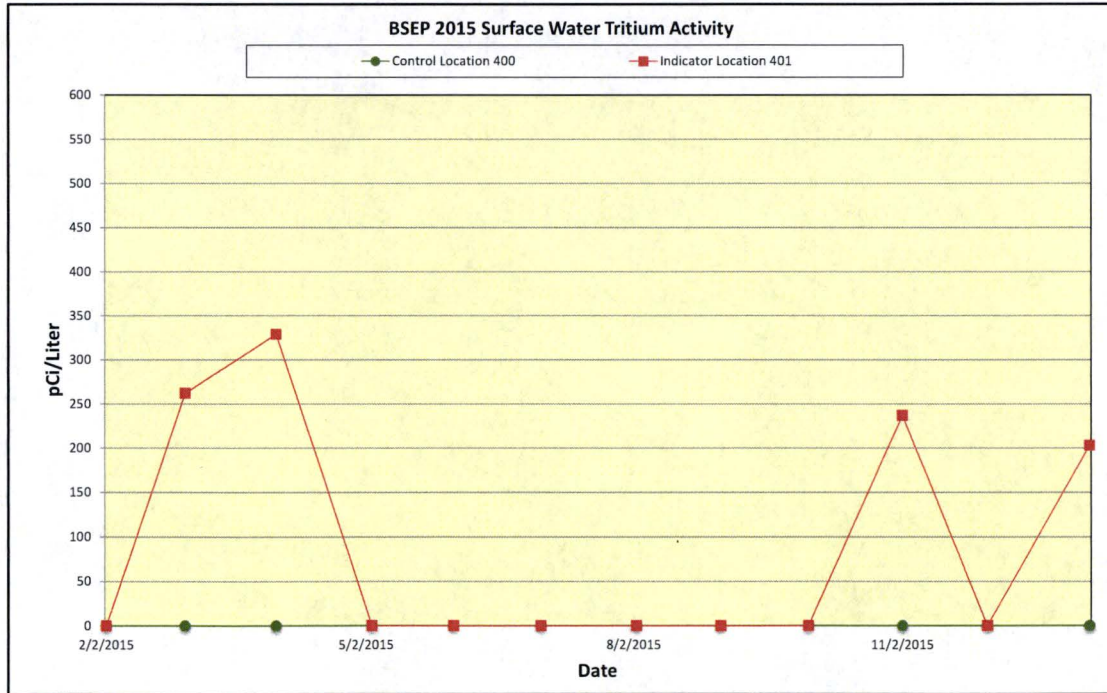
## 3.2 SURFACE WATER

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. 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). 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, 45 out of 636 indicator samples indicated the presence of tritium in 2015. The predominate indicator locations indicating tritium were at Nancy's Creek, Nancy's Creek Marsh Area, and the discharge canal. Four (4) of the twelve samples from the historical discharge canal indicated the presence of tritium, while 41 out



of 624 samples from Nancy's Creek and 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  $2.58E+2$  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 a maximum concentration of  $9.05E+2$  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. Figure 3.2-1 depicts the observed tritium concentrations for SW-400 (control) and SW-401 (indicator) in 2015. Refer to Appendix B for additional surface water results.

**Figure 3.2-1**



### **3.3 GROUND WATER**

Groundwater (GW) is sampled quarterly and semiannually from 10 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 2015. Analyses indicated detectable concentrations of tritium in five out of 46 samples analyzed in 2015 for an average



tritium concentration of 3.52E+02 pCi/L. Refer to Appendix B for additional ground water results. Ground water 404, 423, and 424 were not sampled during 2<sup>nd</sup> quarter 2015 (4/13/15) scheduled timeframe due to a BSEP Chemistry Scheduler Computer Program error. All three ground water well samples were sampled as soon as the missed surveillance was discovered (5/12/15); however, due to BSEP ODCM surveillance frequency stipulations the ground water samples were classified as unavailable for the 2<sup>nd</sup> quarter collection period (see Appendix C).

### **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 2015.

Food crops were not grown in the vicinity of the plant in 2015 and this media was represented by indigenous vegetation samples consisting primarily of wax myrtle leaves. Forty-eight (48) samples were collected from indicator locations and twelve (12) samples from the control location. No detectable activities relating to plant effluents were detected in any of the indicator broadleaf vegetation sample media in 2015; however, two control samples out of twelve had detectable Cs-137 activity at a concentration of 2.98E+1 pCi/kg (wet) in 2015. No other gamma activity was detected in any sample other naturally occurring gamma activity.

### **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 2.1-4). No detectable activities relating to plant effluents were detected in 2015. The fish locations on Nancy's Creek sampled in 2015 were also analyzed for tritium, with all the tritium results being less than LLD. The invertebrate sample collected from location #708 in Nancy's Creek was identified as having an Analytical Deviation, see Appendix D.

### **3.6 SHORELINE SEDIMENT**

Four shoreline sediments were collected in 2015. 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 from the Nancy's Creek area samples. Two shoreline sediment samples in 2015 were drawn from Nancy's Creek adjacent to WP-55 near the Storm Drain Stabilization Pond (SDSP), where both of the indicator samples contained Cesium (Cs)-137 activity (Average: 1.32E+2 pCi/kg, dry). Both of the samples were analyzed for



Iron (Fe)-55, Strontium (Sr)-89, and Strontium (Sr)-90 by General Engineering Laboratories (GEL). Both were less than the respective LLDs. Per BSEP ODCM revision 37; 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. A shoreline sediment background sample, non-ODCM, was collected and analyzed in 2015, with no detectable activity relating to plant effluents being identified. The only nuclides identified were naturally occurring nuclides.

### **3.7 DIRECT GAMMA RADIATION**

#### **3.7.1 ENVIRONMENTAL TLD**

In 2015, 179 TLDs were analyzed, 175 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly.

Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. The environmental data on external radiation exposure for 2015 was essentially unchanged from 1989-2014, with an average exposure for all of 2015 indicator locations of 10.6 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-B provides a comparison of recent data with the preoperational and historical data.

The average quarterly exposure at the indicator and control locations was 10.6 mR/std. qtr. and 11.4 mR/std. qtr. respectively. The highest indicator location was 5.3 miles SW of the plant and its average was 15.9 mR/std. qtr. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations. There was one missing TLD during the BSEP 2015 collection period, refer to Appendix C or D for information.

Figure 3.7-1 depicts average inner and outer ring TLD data for each quarter of 2015. This depiction does not indicate a significantly higher exposure rate for the inner versus the outer ring. This is interpreted as demonstrating that no discernible off-site exposure has occurred from plant operations.

TLD averages per Appendix B do include a separate line for the four (4) ISFSI TLDs that were added to the program as of 3<sup>rd</sup> 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 2015 ISFSI TLD data after loaded fuel with preoperational data (2008 – 3<sup>rd</sup> 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-A). Dry fuel storage radiation measurements have been

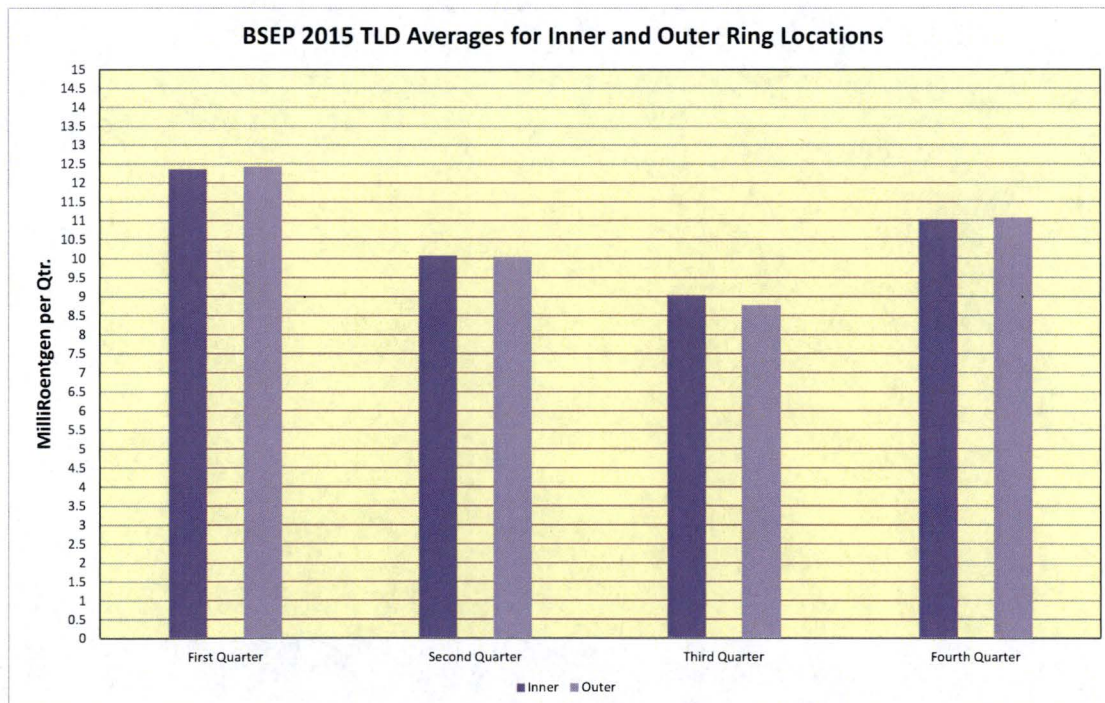


monitored since 2008 and additional information can be found in the BSEP 2015 Annual Release Report.

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 include in Section 4.9.

**Figure 3.7-1**



**Table 3.7-A**  
**ISFSI TLD Dose (mR/std. qtr.)**

	<b>TLD # 82</b>	<b>TLD # 83</b>	<b>TLD # 84</b>	<b>TLD # 85</b>
Average Pre-Op (1 <sup>st</sup> Qtr. 2008 to 3 <sup>rd</sup> Qtr. 2010)	30.1 ± 3.1	22.4 ± 2.1	16.7 ± 1.6	53.2 ± 7.6
Average after Fuel Loaded (4 <sup>th</sup> Qtr. 2010 to 4 <sup>th</sup> Qtr. 2015)	32.1	24.3	18.2	46.8

**Table 3.7-B**

**Brunswick Steam Electric Plant  
HISTORICAL TLD RESULTS (1972-2015)**

<b>Year</b>	<b>Average Exposure of All TLD Monitoring Locations (mR per week)</b>
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)

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

### **3.8 LAND USE CENSUS**

The 2015 BSEP Annual Land Use Census was conducted during June of 2015 as required by the BSEP ODCM. Table 3.8-A summarizes the 2015 census results. No environmental program changes were required as a result of the 2015 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 incorporated or had deposited on it radioactive materials that can 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 2014 and 2015 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 2015 did identify one change from 2014. The nearest resident location changed in the South (S) sector from 1.1 miles to 1.1 miles (address changed, but distance did not) The garden portion of the census identified changes in the distance of the nearest garden in two sectors during the 2015 census.

The nearest garden location changed in the North (N) sector from 1.0 miles to 1.1 miles (address changed, but distance did not), the South (S) sector from 2.2 miles to 1.8 miles and in the West (W) sector from 1.1 miles to 1.2 miles. No milk animals were located within 5 miles of the plant in 2015.

The 2015 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 2015 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 (2014 – 2015)**  
**Nearest Pathway (Miles)**

SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2014	2015	2014	2015	2014	2015
N	0.7	0.7	1.0	1.1*	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**	1.8	1.8	None	None
SSW	1.2	1.2	1.9	1.9	None	None
SW	1.1	1.1	1.4	1.4	None	None
WSW	1.2	1.2	1.3	1.3	None	None
W	0.9	0.9	1.1	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	0.9	None	None

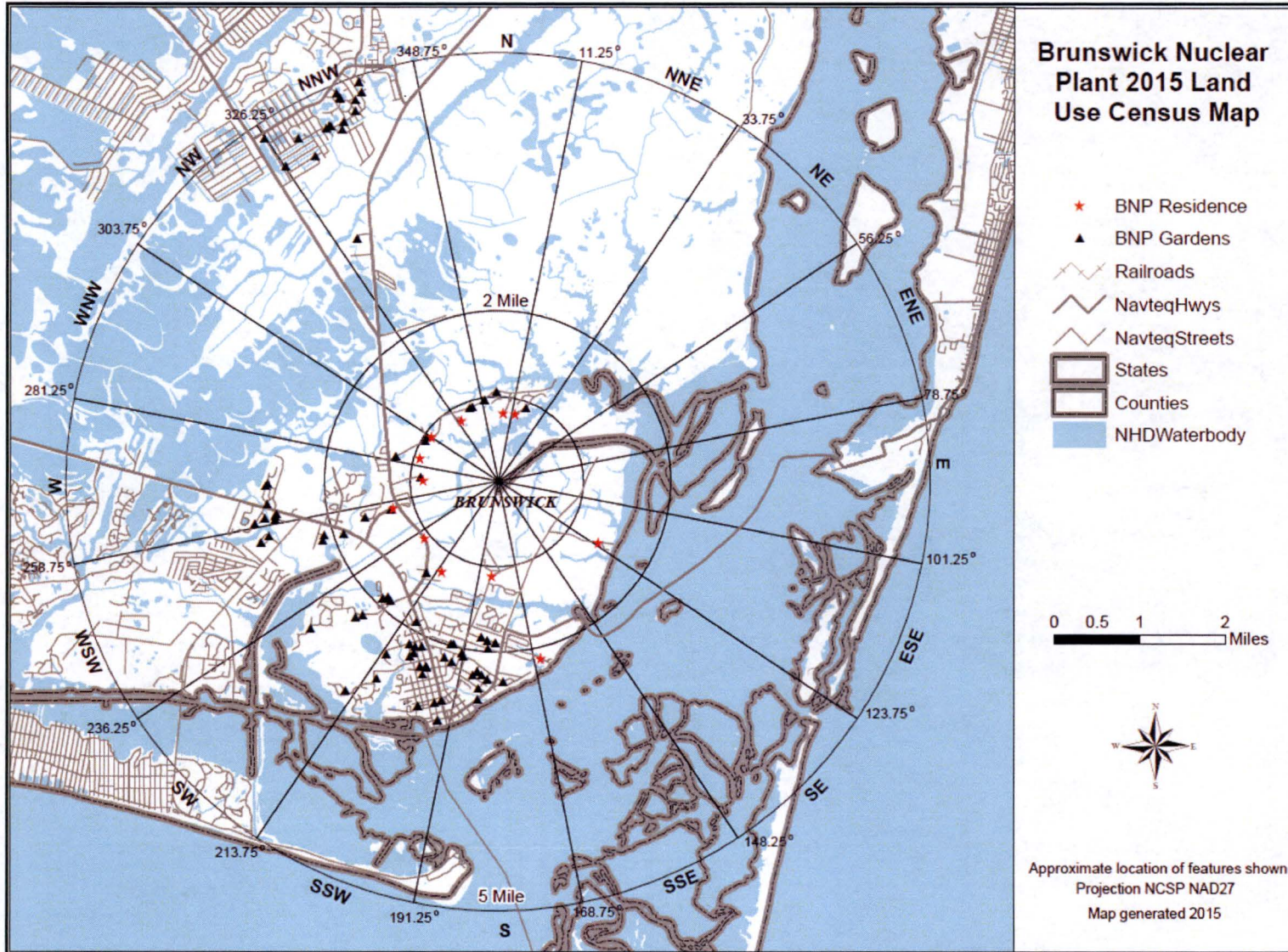
\* Represents a change from the previous year.

\*\*Change from previous year for nearest Resident due to an actual different physical address, but same mileage.  
Sector and distance determined by Global Positioning System.

**Table 3.8-B**  
**Brunswick Steam Electric Plant**  
**Garden Census – 2015**

<b>SECTOR</b>	<b>DISTANCE (miles)</b>		<b>SECTOR</b>	<b>DISTANCE (miles)</b>
N	1.1		SW	1.9
NNE	0.9		SW	2.2
NE	None		SW	2.3
ENE	None		SW	2.8
E	None		SW	3.0
ESE	None		WSW	1.3
SE	None		WSW	1.6
SSE	None		WSW	1.9
S	1.8		WSW	2.1
S	1.9		WSW	2.7
S	2.0		WSW	2.8
S	2.2		W	1.2
S	2.2		W	1.3
S	2.3		W	2.6
S	2.3		W	2.6
S	2.3		W	2.7
S	2.3		W	2.7
S	2.4		W	2.7
S	2.6		W	2.8
SSW	1.9		WNW	1.0
SSW	2.0		WNW	1.0
SSW	2.1		WNW	1.2
SSW	2.1		NW	4.9
SSW	2.2		NNW	0.9
SSW	2.2		NNW	0.9
SSW	2.2		NNW	3.3
SSW	2.2		NNW	4.3
SSW	2.3		NNW	4.2
SSW	2.3		NNW	4.5
SSW	2.3		NNW	4.6
SSW	2.4		NNW	4.6
SSW	2.4		NNW	4.6
SSW	2.7		NNW	4.6
SSW	2.7		NNW	4.6
SSW	2.7		NNW	4.6
SSW	2.8		NNW	4.8
SSW	2.8		NNW	4.8
SSW	2.9		NNW	4.9
SW	1.4		NNW	4.9
SW	1.9		NNW	4.9
SW	1.9		N/A	N/A

Figure 3.8-1



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## **4.0 QUALITY ASSURANCE**

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### **4.1 SAMPLE COLLECTION**

Environmental sample collection was performed by BSEP Chemistry personnel in 2015, and Fisheries and Aquatic Ecology 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 are analyzed by the BSEP laboratory. The fish samples (requiring tritium analysis) and the Shoreline Sediment samples (requiring Hard-to-detects [Fe-55 and Sr-89, 90]) were analyzed by a vendor laboratory – General Engineering Laboratory, LLC (GEL).

### **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. This includes tritium analyses in ground water and surface water samples.

### **4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM**

In 2015 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable. In addition, EnRad Laboratory participated in the Environmental Resource Associates (ERA) RadChem™ Proficiency Testing program to satisfy the North Carolina state drinking water radiochemistry certification requirements.

EnRad Laboratory participated in three interlaboratory programs: Eckert & Ziegler Analytics (EZA), ERA, and Fleet Scientific Services (FSS). EZA results were evaluated against IP 84750 acceptance criteria stated in EnRad procedure 515, Cross Check Program Administration. ERA evaluated the results reported by EnRad based on the National Environmental Laboratory Accreditation Conference (NELAC) Field of Proficiency Testing criteria. FSS results were evaluated as prescribed in the Duke Energy Nuclear Generation Procedure SRPMP 9-2.

BSEP REMP does not have a drinking water pathway, so low-level Iodine-131 analysis of drinking water was not required during 2015. This dose pathway was calculated monthly for applicable sites during 2015 to ensure that low-level Iodine-131 analysis of drinking water samples was not required (the dose calculated for the consumption of the water was not greater than 1 mrem per year).

#### **4.5.1 DUKE ENERGY INTERLABORATORY PROGRAM**

EnRad Laboratories participated in the Duke Energy Fleet Scientific Services (FSS) Interlaboratory Program during 2015. Interlaboratory cross check samples including mixed gamma in water (Marinelli beakers), low-level I-131 in water, gross beta in water, and tritium in water samples were analyzed during 2015. A summary of the EnRad Laboratory program results for 2015 is documented in Table 4.0-A.

#### **4.5.2 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM**

EnRad Laboratories participated in the Eckert & Ziegler Analytics Cross Check Program during 2015. Cross check samples including air filters (single and composites), air cartridges, gross beta in water, various mixed gamma samples in Marinelli beakers (soil, vegetation, milk, and water), tritium in water, and Iodine in milk and water samples were analyzed at various times of the year. A summary of the EnRad Laboratory program results for 2015 is documented in Table 4.0-B.

Interlaboratory cross check samples from EZA were received and analyzed in all four quarters of 2015. During 2015, there were three EZA Cross Check results in non-agreement. The first non-agreement result was in the second quarter mixed gamma in vegetation sample (E11250). Agreement was achieved in seven of eight identified nuclides, with Cs-137 being the nuclide that was found in non-agreement (NCR # 01939292). Due to the non-agreement, an evaluation was conducted to track actions and resolve how to prevent recurrence. The evaluation identified a slight negative bias for all nuclides which could be attributed to three factors: (1) mismatch between cross check geometry and calibration geometry fill-depth, (2) insufficient training of laboratory personnel regarding the importance of geometry effects, and (3) EnRad procedure # 52 when revised the procedural guidance on sample preparation to agree with calibration geometries' fill-depth was removed. How to prevent recurrence: (1) laboratory personnel were provided training to ensure an understanding of the importance of reproducing the proper geometry in all sample analyses, (2) ensure cross checks are ordered that correctly reflect calibration geometries, (3) revise EnRad procedure # 52 to address proper sample preparation to ensure proper geometry agreement, and (4) request from EZA a third quarter mixed gamma in vegetation (E11335) sample (all nuclides were in agreement and no bias was present).

The next two non-agreement results were second quarter LLI-131 in Water (E11248) and third quarter LLI-131 in Water (E11337); NCR # 01937710 and NCR # 01967544 respectively. After the second failure, the LLI-131 in Water analysis was immediately suspended at EnRad Analytical Laboratory (October 2015) and samples requiring this analysis were sent to a vendor lab (GEL). During the fourth quarter of 2015, EnRad requested and analyzed six LLI-131 in Water samples prepared by FSS and all samples were in agreement. Second quarter LLI-131 in Water (E11248) - NCR # 01937710 non-agreement was determined to have been caused by an incomplete chemical separation as the source of the cross check failure. The exact cause of the incomplete separation could not be established and given that the accompanying QC samples were acceptable, no precise cause could be attributed to the failure. In accordance with standard practice, another cross check was obtained for third quarter 2015 to validate the LLI-131 in Water methodology. The third quarter LLI-131 in Water (E11337) also yielded unacceptable results (NCR # 01967544) with result similar to the second quarter results. Immediate corrective actions included reviewing analysis package, EnRad Analytical Laboratory immediately suspended the LLI-131 in Water analysis and samples requiring this analysis were sent to a vendor lab (GEL) for analysis. Due to the second non-agreement, another evaluation was conducted to determine the cause and how to prevent recurrence. The evaluation identified the following items to help prevent recurrence: (1) revise EnRad procedure # 54 to specify method (pH) limitations of steps and to apply dechlorination steps only when needed; (2) revise EnRad procedure # 515 to address specific activity ranges, chemical matrix types, physical matrix types, or specific geometry requirements - such as I-131 cross check samples be ordered at a lower pH; (3) analyze a final set



of test samples in appropriate pH to validate cause had been resolved. All FSS LLI-131 samples analyzed during fourth quarter 2015 were in agreement.

Low-Level Iodine 131 (LLI-131) activity has not been observed in water analyses at EnRad Analytical Laboratory in 2015; therefore, there is no possibility that I-131 results may have been underreported in 2015. During first quarter of 2015, EnRad Analytical Laboratory analyzed a LLI-131 in Milk (E11171) with acceptable results (Ratio: 99%). LLI-131 in Milk methodology is essentially the same as that of water and they have similar densities.

The BSEP Chemistry Laboratory participated in the Analytical Environmental Cross Check Program administered by Eckert & Ziegler Analytics, Inc. during 2015. Cross check samples including tritium in water, gammas in solids, and other sample media were analyzed in 2015. A summary of the applicable BSEP Laboratory program results for 2015 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 performed method proficiency testing through a program administered by Environmental Resource Associates (ERA) of Arvada, CO. ERA supplied requested method proficiency samples for analysis and nuclide concentration determination. ERA reported proficiency test results to the North Carolina Department of Health and Human Services, North Carolina Public Health Drinking Water Laboratory Certification Program. A summary of these proficiency test data for 2015 is documented in Table 4.0-C.

#### **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 shoreline sediment samples to the State of North Carolina Department of Health and Human Services, Division of Public Health for intercomparison analysis.

#### **4.7 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 2015. A summary of the GEL quality assurance program results for the sample media types sent to GEL during 2015 is documented in Table 4.0-E. GEL Quality Assurance Program results not appearing in Table 4.0-E will be supplied upon request.

## **4.8 TLD INTERCOMPARISON PROGRAM**

### **4.8.1 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 2015 Nuclear Technology Services Intercomparison Report is documented in Table 4.0-F. 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 third quarter of 2015 an environmental external TLD cross check failed and NCR # 02012855 was written to document this failure. To prevent recurrence, the TLD was pulled and visually inspected for cracks in the elements and overall integrity of the TLD - no abnormalities were found. A dose response check was performed and one of the elements fell outside the acceptable limits; therefore, the TLD was removed from service by separating it from the usable TLD population and writing OOS (out of service) over the barcode with a permanent marker to prevent future use. Fourth quarter 2015 results were all acceptable. Complete documentation of any evaluation will be available and provided to the NRC upon request.

### **4.8.2 INTERNAL CROSSCHECK (DUKE ENERGY)**

Radiation Dosimetry and Records participates in a quarterly TLD intracomparison 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 2015 Internal Cross Check (Duke Energy) Result is documented in Table 4.0-F.

# TABLE 4.0-A

## DUKE ENERGY

### INTERLABORATORY COMPARISON PROGRAM

#### 2015 EnRad Fleet Scientific Services Cross Check Performance Summary

Cross check samples were distributed by Fleet Scientific Services (FSS) in accordance with Duke Energy Nuclear Generation Procedure SRPMP 9-2. Thirteen water samples were analyzed for tritium, gross beta, and mixed gamma emitters, while two water samples were analyzed for low-level I-131. The below table lists results for specific analyses. One hundred and twenty results were reported and evaluated as prescribed in procedure SRPMP 9-2. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84750 (IP 84750). These results passed the acceptance criteria for the program with 100% agreement.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	GO Value	EnRad/GO Ratio	Evaluation
Water			4	pCi/L	1.13E+02	1.17E+02	0.96	Agreement
LLI-131	Q154L1W1	I-131	4	pCi/L	1.19E+02	1.17E+02	1.01	Agreement
			4	pCi/L	1.19E+02	1.17E+02	1.01	Agreement
			4	pCi/L	5.57E+01	5.71E+01	0.97	Agreement
	Q154L1W2	I-131	4	pCi/L	5.51E+01	5.71E+01	0.96	Agreement
			4	pCi/L	5.41E+01	5.71E+01	0.95	Agreement
Tritium in Water	Q151TWR1	H-3	1	pCi/L	2.22E+03	2.08E+03	1.07	Agreement
			1	pCi/L	2.14E+03	2.08E+03	1.03	Agreement
	Q151TWR2	H-3	1	pCi/L	4.74E+02	4.42E+02	1.07	Agreement
			1	pCi/L	5.20E+02	4.42E+02	1.18	Agreement
	Q151TWR3	H-3	1	pCi/L	8.35E+03	8.45E+03	0.99	Agreement
			1	pCi/L	8.44E+03	8.45E+03	1.00	Agreement
Tritium in Water			3	pCi/L	1.45E+05	1.49E+05	0.97	Agreement
	Q153TWR1	H-3	3	pCi/L	1.47E+05	1.49E+05	0.99	Agreement
			3	pCi/L	1.49E+05	1.49E+05	1.00	Agreement
			3	pCi/L	2.82E+03	2.77E+03	1.02	Agreement
	Q153TWR2	H-3	3	pCi/L	2.79E+03	2.77E+03	1.01	Agreement
			3	pCi/L	2.69E+03	2.77E+03	0.97	Agreement
			3	pCi/L	3.70E+02	3.35E+02	1.11	Agreement
	Q153TWR3	H-3	3	pCi/L	3.34E+02	3.35E+02	1.00	Agreement
			3	pCi/L	3.20E+02	3.35E+02	0.96	Agreement
Beta in Water	Q153ABW1		3	pCi/L	1.31E+02	1.27E+02	1.03	Agreement
		Cs-137	3	pCi/L	1.29E+02	1.27E+02	1.02	Agreement
			3	pCi/L	1.28E+02	1.27E+02	1.01	Agreement
	Q153ABW2		3	pCi/L	3.24E+02	3.26E+02	0.99	Agreement
		Cs-137	3	pCi/L	3.32E+02	3.26E+02	1.02	Agreement
			3	pCi/L	3.24E+02	3.26E+02	0.99	Agreement
	Q153ABW3		3	pCi/L	2.04E+02	1.97E+02	1.04	Agreement
		Cs-137	3	pCi/L	2.05E+02	1.97E+02	1.04	Agreement
			3	pCi/L	2.03E+02	1.97E+02	1.03	Agreement

## TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	GO Value	EnRad/GO Ratio	Evaluation
Gamma in Water	Q151GWR1 1.0 L	Mn-54	1	pCi/L	7.06E+03	6.65E+03	1.06	Agreement
			1	pCi/L	7.18E+03	6.65E+03	1.08	Agreement
			1	pCi/L	7.16E+03	6.65E+03	1.08	Agreement
		Co-57	1	pCi/L	4.84E+03	4.87E+03	0.99	Agreement
			1	pCi/L	4.93E+03	4.87E+03	1.01	Agreement
			1	pCi/L	4.88E+03	4.87E+03	1.00	Agreement
		Fe-59	1	pCi/L	7.92E+03	7.41E+03	1.07	Agreement
			1	pCi/L	8.06E+03	7.41E+03	1.09	Agreement
			1	pCi/L	8.10E+03	7.41E+03	1.09	Agreement
	Co-60	1	pCi/L	6.13E+03	6.14E+03	1.00	Agreement	
		1	pCi/L	6.25E+03	6.14E+03	1.02	Agreement	
		1	pCi/L	6.21E+03	6.14E+03	1.01	Agreement	
	Cs-134	1	pCi/L	7.53E+03	8.53E+03	0.88	Agreement	
		1	pCi/L	7.59E+03	8.53E+03	0.89	Agreement	
		1	pCi/L	7.59E+03	8.53E+03	0.89	Agreement	
	Cs-137	1	pCi/L	1.34E+04	1.32E+04	1.02	Agreement	
		1	pCi/L	1.37E+04	1.32E+04	1.04	Agreement	
		1	pCi/L	1.37E+04	1.32E+04	1.04	Agreement	
	Q151GWR1 3.5 L	Mn-54	1	pCi/L	7.38E+03	6.65E+03	1.11	Agreement
			1	pCi/L	7.32E+03	6.65E+03	1.10	Agreement
			1	pCi/L	7.40E+03	6.65E+03	1.11	Agreement
Co-57		1	pCi/L	5.14E+03	4.87E+03	1.05	Agreement	
		1	pCi/L	5.01E+03	4.87E+03	1.03	Agreement	
		1	pCi/L	5.17E+03	4.87E+03	1.06	Agreement	
Fe-59		1	pCi/L	8.12E+03	7.41E+03	1.10	Agreement	
		1	pCi/L	8.15E+03	7.41E+03	1.10	Agreement	
		1	pCi/L	8.12E+03	7.41E+03	1.10	Agreement	
Co-60		1	pCi/L	6.41E+03	6.14E+03	1.04	Agreement	
		1	pCi/L	6.42E+03	6.14E+03	1.05	Agreement	
		1	pCi/L	6.41E+03	6.14E+03	1.04	Agreement	
Cs-134		1	pCi/L	8.09E+03	8.53E+03	0.95	Agreement	
		1	pCi/L	8.01E+03	8.53E+03	0.94	Agreement	
		1	pCi/L	8.15E+03	8.53E+03	0.96	Agreement	
Cs-137	1	pCi/L	1.42E+04	1.32E+04	1.08	Agreement		
	1	pCi/L	1.41E+04	1.32E+04	1.07	Agreement		
	1	pCi/L	1.42E+04	1.32E+04	1.08	Agreement		



## TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	GO Value	EnRad/GO Ratio	Evaluation
Gamma in Water	Q153GWR 1.0 L	Mn-54	3	pCi/L	8.38E+03	7.79E+03	1.08	Agreement
			3	pCi/L	8.43E+03	7.79E+03	1.08	Agreement
			3	pCi/L	8.48E+03	7.79E+03	1.09	Agreement
		Co-57	3	pCi/L	1.05E+04	1.05E+04	1.00	Agreement
			3	pCi/L	1.06E+04	1.05E+04	1.01	Agreement
			3	pCi/L	1.06E+04	1.05E+04	1.01	Agreement
		Fe-59	3	pCi/L	2.65E+04	2.40E+04	1.10	Agreement
			3	pCi/L	2.69E+04	2.40E+04	1.12	Agreement
			3	pCi/L	2.69E+04	2.40E+04	1.12	Agreement
		Co-60	3	pCi/L	1.24E+04	1.22E+04	1.02	Agreement
			3	pCi/L	1.25E+04	1.22E+04	1.02	Agreement
			3	pCi/L	1.26E+04	1.22E+04	1.03	Agreement
		Zn-65	3	pCi/L	1.89E+04	1.74E+04	1.09	Agreement
			3	pCi/L	1.91E+04	1.74E+04	1.10	Agreement
			3	pCi/L	1.92E+04	1.74E+04	1.10	Agreement
		Y-88	3	pCi/L	8.62E+03	8.86E+03	0.97	Agreement
			3	pCi/L	8.81E+03	8.86E+03	0.99	Agreement
			3	pCi/L	8.89E+03	8.86E+03	1.00	Agreement
		Sn-113	3	pCi/L	1.35E+04	1.31E+04	1.03	Agreement
			3	pCi/L	1.36E+04	1.31E+04	1.04	Agreement
3	pCi/L		1.34E+04	1.31E+04	1.03	Agreement		
Cs-134	3	pCi/L	6.29E+03	6.91E+03	0.91	Agreement		
	3	pCi/L	6.29E+03	6.91E+03	0.91	Agreement		
	3	pCi/L	6.37E+03	6.91E+03	0.92	Agreement		
Cs-137	3	pCi/L	1.22E+04	1.17E+04	1.05	Agreement		
	3	pCi/L	1.22E+04	1.17E+04	1.05	Agreement		
	3	pCi/L	1.22E+04	1.17E+04	1.05	Agreement		

## TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	GO Value	EnRad/GO Ratio	Evaluation
Gamma in Water	Q153GWR 3.5 L	Mn-54	3	pCi/L	8.47E+03	7.79E+03	1.09	Agreement
			3	pCi/L	8.56E+03	7.79E+03	1.10	Agreement
			3	pCi/L	8.47E+03	7.79E+03	1.09	Agreement
		Co-57	3	pCi/L	1.07E+04	1.05E+04	1.02	Agreement
			3	pCi/L	1.09E+04	1.05E+04	1.04	Agreement
			3	pCi/L	1.07E+04	1.05E+04	1.02	Agreement
		Fe-59	3	pCi/L	2.66E+04	2.40E+04	1.11	Agreement
			3	pCi/L	2.67E+04	2.40E+04	1.11	Agreement
			3	pCi/L	2.66E+04	2.40E+04	1.11	Agreement
		Co-60	3	pCi/L	1.27E+04	1.22E+04	1.04	Agreement
			3	pCi/L	1.28E+04	1.22E+04	1.05	Agreement
			3	pCi/L	1.27E+04	1.22E+04	1.04	Agreement
		Zn-65	3	pCi/L	1.90E+04	1.74E+04	1.09	Agreement
			3	pCi/L	1.92E+04	1.74E+04	1.10	Agreement
			3	pCi/L	1.90E+04	1.74E+04	1.09	Agreement
		Y-88	3	pCi/L	8.93E+03	8.86E+03	1.01	Agreement
			3	pCi/L	8.96E+03	8.86E+03	1.01	Agreement
			3	pCi/L	9.00E+03	8.86E+03	1.02	Agreement
		Sn-113	3	pCi/L	1.38E+04	1.31E+04	1.06	Agreement
			3	pCi/L	1.40E+04	1.31E+04	1.07	Agreement
3	pCi/L		1.38E+04	1.31E+04	1.06	Agreement		
Cs-134	3	pCi/L	6.53E+03	6.91E+03	0.94	Agreement		
	3	pCi/L	6.58E+03	6.91E+03	0.95	Agreement		
	3	pCi/L	6.55E+03	6.91E+03	0.95	Agreement		
Cs-137	3	pCi/L	1.23E+04	1.17E+04	1.05	Agreement		
	3	pCi/L	1.24E+04	1.17E+04	1.06	Agreement		
	3	pCi/L	1.23E+04	1.17E+04	1.05	Agreement		

# TABLE 4.0-B

## ECKERT & ZIEGLER ANALYTICS

### CROSS CHECK PROGRAM

#### 2015 Cross Check Results for EnRad Laboratories

Interlaboratory Cross check samples are received, prepared, and analyzed in all four quarters of 2015. 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). Seventy-three environmental results were reported, of which 70 (95.9%) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma	E11279	Ce-141	3	pCi	87.6	84.9	1.03	Agreement
in		Cr-51	3	pCi	218	215	1.02	Agreement
Filter		Cs-134	3	pCi	83.6	84.4	0.99	Agreement
		Cs-137	3	pCi	102	102	1.00	Agreement
		Co-58	3	pCi	108	105	1.03	Agreement
		Mn-54	3	pCi	113	116	0.98	Agreement
		Fe-59	3	pCi	93	89.9	1.03	Agreement
		Zn-65	3	pCi	141	141	1.00	Agreement
		Co-60	3	pCi	133	132	1.01	Agreement



## TABLE 4.0-B (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gross Beta	E11281	Gross Beta	3	pCi	205	216	0.95	Agreement
Filter	E11411	Gross Beta	4	pCi	256	240	1.07	Agreement
Gross Beta	E11249	Cs-137	2	pCi/L	259	248	1.04	Agreement
in Water	E11407	Cs-137	4	pCi/L	242	247	0.98	Agreement
I-131 Charcoal	E11172	I-131	1	pCi	82.0	78.4	1.05	Agreement
Cartridge	E11278	I-131	3	pCi	81.5	81.4	1.00	Agreement
LLI-131 in	E11248	I-131	2	pCi/L	67.8	98.4	0.69	Non-Agreement*
Water	E11337	I-131	3	pCi/L	58.5	96.5	0.61	Non-Agreement**
LLI-131 in Milk	E11171	I-131	1	pCi/L	98.3	99.0	0.99	Agreement
Tritium in Water	E11252	H-3	2	pCi/L	13,100	13,000	1.01	Agreement
Gamma in Vegetation (Coffee Grounds)	E11250	Cr-51	2	pCi/g	0.430	0.474	0.91	Agreement
		Cs-134	2	pCi/g	0.230	0.279	0.82	Agreement
		Cs-137	2	pCi/g	0.170	0.215	0.79	Non-Agreement***
		Co-58	2	pCi/g	0.100	0.117	0.85	Agreement
		Mn-54	2	pCi/g	0.150	0.173	0.87	Agreement
		Fe-59	2	pCi/g	0.260	0.260	1.00	Agreement
		Zn-65	2	pCi/g	0.400	0.427	0.94	Agreement
		Co-60	2	pCi/g	0.300	0.331	0.91	Agreement
Gamma in Vegetation (Coffee Grounds)	E11335	Ce-141	3	pCi/g	0.307	0.312	0.98	Agreement
		Cr-51	3	pCi/g	0.819	0.788	1.04	Agreement
		Cs-134	3	pCi/g	0.272	0.310	0.88	Agreement
		Cs-137	3	pCi/g	0.383	0.373	1.03	Agreement
		Co-58	3	pCi/g	0.389	0.385	1.01	Agreement
		Mn-54	3	pCi/g	0.449	0.425	1.06	Agreement
		Fe-59	3	pCi/g	0.361	0.331	1.09	Agreement
		Zn-65	3	pCi/g	0.561	0.517	1.08	Agreement
		Co-60	3	pCi/g	0.493	0.483	1.02	Agreement

\* NCR # 01937710  
 \*\*NCR # 01967544  
 \*\*\*NCR # 01939292

## TABLE 4.0-B (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E11280	Ce-141	3	pCi	141	140	1.01	Agreement
		Cr-51	3	pCi	370	353	1.05	Agreement
		Cs-134	3	pCi	136	139	0.98	Agreement
		Cs-137	3	pCi	164	167	0.98	Agreement
		Co-58	3	pCi	167	172	0.97	Agreement
		Mn-54	3	pCi	195	190	1.03	Agreement
		Fe-59	3	pCi	179	148	1.21	Agreement
		Zn-65	3	pCi	224	232	0.97	Agreement
		Co-60	3	pCi	213	216	0.99	Agreement
Gamma in Water	E11282	I-131	3	pCi/L	94.6	96.7	0.98	Agreement
		Ce-141	3	pCi/L	196	199	0.99	Agreement
		Cr-51	3	pCi/L	508	502	1.01	Agreement
		Cs-134	3	pCi/L	176	198	0.89	Agreement
		Cs-137	3	pCi/L	237	238	1.00	Agreement
		Co-58	3	pCi/L	240	246	0.98	Agreement
		Mn-54	3	pCi/L	286	271	1.06	Agreement
		Fe-59	3	pCi/L	229	211	1.09	Agreement
		Zn-65	3	pCi/L	353	330	1.07	Agreement
Gamma in Milk	E11170	I-131	1	pCi/L	97.9	97.5	1.00	Agreement
		Ce-141	1	pCi/L	221	211	1.05	Agreement
		Cr-51	1	pCi/L	607	555	1.09	Agreement
		Cs-134	1	pCi/L	181	191	0.95	Agreement
		Cs-137	1	pCi/L	266	253	1.05	Agreement
		Co-58	1	pCi/L	285	272	1.05	Agreement
		Mn-54	1	pCi/L	262	240	1.09	Agreement
		Fe-59	1	pCi/L	334	295	1.13	Agreement
		Zn-65	1	pCi/L	509	453	1.12	Agreement
Gamma in Soil	E11251	Cr-51	2	pCi/g	0.460	0.482	0.95	Agreement
		Cs-134	2	pCi/g	0.260	0.284	0.91	Agreement
		Cs-137	2	pCi/g	0.270	0.298	0.91	Agreement
		Co-58	2	pCi/g	0.110	0.119	0.92	Agreement
		Mn-54	2	pCi/g	0.170	0.176	0.97	Agreement
		Fe-59	2	pCi/g	0.260	0.264	0.98	Agreement
		Zn-65	2	pCi/g	0.430	0.434	0.99	Agreement
		Co-60	2	pCi/g	0.300	0.336	0.89	Agreement

# TABLE 4.0-C

## ENVIRONMENTAL RESOURCE ASSOCIATES (ERA)

### PROFICIENCY TESTING

#### 2015 Proficiency Test Results for EnRad Laboratories

North Carolina Department of Health and Human Services Laboratory Certification  
EnRad Laboratories

Proficiency test samples are received, prepared, and analyzed in second and fourth quarters of 2015. Results are reported directly to Environmental Resource Associates as described in the instruction package within the study period. Proficiency test data are reported to ERA for evaluation. The acceptance criteria for the program was based on the National Environmental Laboratory Accreditation Conference (NELAC) Field of Proficiency Testing criteria. Fourteen results were reported of which 14 (100 %) met the acceptance criteria. ERA reports proficiency test results to the North Carolina Department of Health and Human Services, North Carolina Public Drinking Water Laboratory Certification Program. This testing is to satisfy the North Carolina state drinking water radiochemistry certification requirements.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	ERA Value	Acceptance Limits	Evaluation
Gamma	Rad-101	Ba-133	2	pCi/L	75.5	82.5	69.3 - 90.8	Agreement
Emitters in		Cs-134	2	pCi/L	69.0	75.7	61.8-83.3	Agreement
Water		Cs-137	2	pCi/L	188.0	189.0	170 - 210	Agreement
		Co-60	2	pCi/L	81.1	84.5	76.0 - 95.3	Agreement
		Zn-65	2	pCi/L	219.0	203.0	183 - 238	Agreement
Gamma	Rad -103	Ba-133	4	pCi/L	29.6	32.5	25.9 - 36.7	Agreement
Emitters in		Cs-134	4	pCi/L	54.0	62.3	50.6 - 68.5	Agreement
Water		Cs-137	4	pCi/L	160	157	141 -175	Agreement
		Co-60	4	pCi/L	71.2	71.1	64.0 - 80.7	Agreement
		Zn-65	4	pCi/L	141	126	113 -149	Agreement
Tritium in	Rad -101	H-3	2	pCi/L	3180	3280	2770-3620	Agreement
Water	Rad -103	H-3	4	pCi/L	20600	21300	18700-23400	Agreement
Iodine-131	Rad -101	I-131	2	pCi/L	23.3	23.8	19.7 - 28.3	Agreement
in Water	Rad -103	I-131	4	pCi/L	25.4	26.3	21.9 - 31.0	Agreement



# TABLE 4.0-D

## ECKERT & ZIEGLER ANALYTICS

### CROSS CHECK PROGRAM

#### 2015 Cross Check Results for BSEP Laboratories

Sample	Nuclide	Quarter	Units	BSEP Value	EZA Value	BSEP/EZ A Ratio	Evaluation
Tritium in Water A30494 1Q	H-3	1 <sup>st</sup>	μCi/cc	1.59E-03	1.50E-03	1.06	Agreement
		A31045 3Q	3 <sup>rd</sup>	μCi/cc	9.40E-04	9.01E-04	1.04
Gamma Solid A31044 3Q	Ce-141	3 <sup>rd</sup>	μCi	2.81E-02	2.96E-02	0.95	Agreement
		4 <sup>th</sup>	μCi	3.41E-02	3.42E-02	1.00	Agreement
A31266 4Q	Cr-51	3 <sup>rd</sup>	μCi	8.88E-02	8.26E-02	1.07	Agreement
		4 <sup>th</sup>	μCi	8.65E-02	8.25E-02	1.05	Agreement
	Cs-134	3 <sup>rd</sup>	μCi	1.58E-02	1.70E-02	0.93	Agreement
		4 <sup>th</sup>	μCi	2.47E-02	2.45E-02	1.01	Agreement
	Cs-137	3 <sup>rd</sup>	μCi	2.03E-02	1.99E-02	1.02	Agreement
		4 <sup>th</sup>	μCi	1.75E-02	1.72E-02	1.02	Agreement
	Co-58	3 <sup>rd</sup>	μCi	2.69E-02	2.68E-02	1.01	Agreement
		4 <sup>th</sup>	μCi	2.18E-02	2.14E-02	1.02	Agreement
	Mn-54	3 <sup>rd</sup>	μCi	2.56E-02	2.41E-02	1.06	Agreement
		4 <sup>th</sup>	μCi	2.47E-02	2.29E-02	1.07	Agreement
	Fe-59	3 <sup>rd</sup>	μCi	2.81E-02	2.68E-02	1.05	Agreement
		4 <sup>th</sup>	μCi	2.69E-02	2.45E-02	1.10	Agreement
	Zn-65	3 <sup>rd</sup>	μCi	3.18E-02	2.98E-02	1.07	Agreement
		4 <sup>th</sup>	μCi	4.24E-02	4.00E-02	1.06	Agreement
	Co-60	3 <sup>rd</sup>	μCi	2.70E-02	2.60E-02	1.04	Agreement
		4 <sup>th</sup>	μCi	3.20E-02	3.22E-02	0.99	Agreement

Other BSEP Interlaboratory Cross Check Program Results from 2015 will be supplied upon request.

# TABLE 4.0-E

## 2015 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
<b>HDT in Soil</b>							
MAPEP-15-MaS32	Fe-55	2nd	Bq/Kg	330	205	Sens. Eval.	Agreement
(2Q 2015)		4 <sup>th</sup>	Bq/kg	557	555	389 - 722	Agreement
MAPEP-15-MaS33	Sr-90	2 <sup>nd</sup>	Bq/Kg	601.00	653	457 - 849	Agreement
(4Q 2015)		4 <sup>th</sup>	Bq/kg	403	425	298 - 553	Agreement
<b>Gamma in Soil</b>							
	Am-241	2 <sup>nd</sup>	Bq/Kg	97.0	68.0	68 - 126	Agreement
		4 <sup>th</sup>	Bq/Kg	61.7	49.5	34.7 - 64.4	Warning
	Co-57	2 <sup>nd</sup>	Bq/Kg	0.369		False Pos Test	Agreement
		4 <sup>th</sup>	Bq/Kg	1240.0	1180	826 - 1534	Agreement
MAPEP-15-MaS32	Cs-134	2 <sup>nd</sup>	Bq/Kg	639	678	475 - 881	Agreement
(2Q 2015)		4 <sup>th</sup>	Bq/Kg	933	1010	707 - 1313	Agreement
	Cs-137	2 <sup>nd</sup>	Bq/Kg	-0.279		False Pos Test	Agreement
		4 <sup>th</sup>	Bq/Kg	861.00	809	566 - 1052	Agreement
	Mn-54	2 <sup>nd</sup>	Bq/Kg	1280	1198	839 - 1557	Agreement
MAPEP-15-MaS33		4 <sup>th</sup>	Bq/Kg	1450	1340	938 - 1742	Agreement
(4Q 2015)	Zn-65	2 <sup>nd</sup>	Bq/Kg	1190.0	1064	745 - 1383	Agreement
		4 <sup>th</sup>	Bq/Kg	761.0	662	463 - 861	Agreement
	Co-60	2 <sup>nd</sup>	Bq/Kg	852	817	572 - 1062	Agreement
		4 <sup>th</sup>	Bq/Kg	2.45	1.30	Sens. Eval.	Agreement
	K-40	2 <sup>nd</sup>	Bq/Kg	684	622	435 - 809	Agreement
		4 <sup>th</sup>	Bq/Kg	687	599	419 - 779	Agreement

Note: \* HTD refers to Hard-to-detect radionuclides

## TABLE 4.0-E (Cont.)

Sample	Nuclide	Quarter	Units	GEL Value	Known Value	Acceptance Range/Ratio	Evaluation
Gamma in Water	Ce-141	4 <sup>th</sup>	pCi/L	302	284	1.06	Agreement
		1 <sup>st</sup>	pCi/L	140	139	1.01	Agreement
EZA 4Q 2014 E11060		2 <sup>nd</sup>	pCi/L	1.24E-01	Not Pres.		Agreement
		3 <sup>rd</sup>	pCi/L	205	199	1.03	Agreement
		4 <sup>th</sup>	pCi/L	127	112	1.14	Agreement
		Cr-51	4 <sup>th</sup>	pCi/L	543	526	1.03
		1 <sup>st</sup>	pCi/L	395	366	1.08	Agreement
		2 <sup>nd</sup>	pCi/L	347	293	1.18	Agreement
		3 <sup>rd</sup>	pCi/L	542	502	1.08	Agreement
		4 <sup>th</sup>	pCi/L	260	244	1.07	Agreement
EZA 1Q 2015 E11177	Cs-134	4 <sup>th</sup>	pCi/L	190	213	0.89	Agreement
		1 <sup>st</sup>	pCi/L	112	126	0.89	Agreement
		2 <sup>nd</sup>	pCi/L	163	173	0.94	Agreement
		3 <sup>rd</sup>	pCi/L	175	198	0.89	Agreement
		4 <sup>th</sup>	pCi/L	125	139	0.90	Agreement
		Cs-137	4 <sup>th</sup>	pCi/L	258	257	1.01
		1 <sup>st</sup>	pCi/L	169	167	1.01	Agreement
		EZA 2Q 2015 E11219	2 <sup>nd</sup>	pCi/L	134	133	1.01
		3 <sup>rd</sup>	pCi/L	240	238	1.01	Agreement
		4 <sup>th</sup>	pCi/L	112	99.5	1.13	Agreement
	Co-58	4 <sup>th</sup>	pCi/L	173	168	1.03	Agreement
		1 <sup>st</sup>	pCi/L	178	180	0.99	Agreement
		2 <sup>nd</sup>	pCi/L	72.1	72.6	0.99	Agreement
		3 <sup>rd</sup>	pCi/L	245	246	1.00	Agreement
		4 <sup>th</sup>	pCi/L	97.3	95.6	1.02	Agreement
		EZA 3Q 2015 E11313	Mn-54	4 <sup>th</sup>	pCi/L	306	292
		1 <sup>st</sup>	pCi/L	166	159	1.05	Agreement
		2 <sup>nd</sup>	pCi/L	117	107	1.10	Agreement
		3 <sup>rd</sup>	pCi/L	288	271	1.06	Agreement
		4 <sup>th</sup>	pCi/L	141	126	1.12	Agreement
	Fe-59	4 <sup>th</sup>	pCi/L	251	226	1.11	Agreement
		1 <sup>st</sup>	pCi/L	214	195	1.10	Agreement
		2 <sup>nd</sup>	pCi/L	176	161	1.09	Agreement
		3 <sup>rd</sup>	pCi/L	231	211	1.10	Agreement
		4 <sup>th</sup>	pCi/L	111	93.4	1.19	Agreement
		EZA 4Q 2015 E11415	Zn-65	4 <sup>th</sup>	pCi/L	420	384
		1 <sup>st</sup>	pCi/L	325	299	1.09	Agreement
		2 <sup>nd</sup>	pCi/L	285	264	1.08	Agreement
		3 <sup>rd</sup>	pCi/L	375	330	1.14	Agreement
		4 <sup>th</sup>	pCi/L	243	215	1.13	Agreement
	Co-60	4 <sup>th</sup>	pCi/L	324	304	1.06	Agreement
		1 <sup>st</sup>	pCi/L	323	328	0.98	Agreement
		2 <sup>nd</sup>	pCi/L	210	205	1.03	Agreement
		3 <sup>rd</sup>	pCi/L	311	308	1.01	Agreement
		4 <sup>th</sup>	pCi/L	192	185	1.04	Agreement



## TABLE 4.0-E (Cont.)

Sample	Nuclide	Quarter	Units	GEL Value	Known Value	Acceptance Range/Ratio	Evaluation
<b>Tritium in Water</b>							
MAPEP-15-GrW32	H-3	2 <sup>nd</sup>	Bq/L	633	563	394 - 732	Agreement
(2Q 2015)							
MAPEP-15-MaW33	H-3	4 <sup>th</sup>	Bq/L	212	216	151 - 281	Agreement
(4Q 2015)							
<b>I-131 in Water with EZA</b>							
4Q 2014 E11060	I-131	4 <sup>th</sup>	pCi/L	111	95.3	1.16	Agreement
1Q 2015 E11177	I-131	1 <sup>st</sup>	pCi/L	99.2	96.7	1.03	Agreement
2Q 2015 E11219	I-131	2 <sup>nd</sup>	pCi/L	95.3	93.4	1.02	Agreement
3Q 2015 E11313	I-131	3 <sup>rd</sup>	pCi/L	100	96.7	1.03	Agreement
4Q 2015 E11415	I-131	4 <sup>th</sup>	pCi/L	105	92.6	1.13	Agreement

Other GEL 2015 Annual Environmental Quality Assurance Report results will be supplied upon request.

# TABLE 4.0-F

## 2015 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 the 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 2015						2nd Quarter 2015					
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
102480	75.35	70.21	7.32	<+/-15%	Pass	102723	18.37	21.52	-14.64	<+/-15%	Pass
102376	72.44	70.21	3.18	<+/-15%	Pass	103394	19.49	21.52	-9.43	<+/-15%	Pass
102444	73.21	70.21	4.27	<+/-15%	Pass	103058	19.49	21.52	-9.43	<+/-15%	Pass
103070	78.11	70.21	11.25	<+/-15%	Pass	103120	19.83	21.52	-7.85	<+/-15%	Pass
102008	77.96	70.21	11.04	<+/-15%	Pass	103419	19.34	21.52	-10.13	<+/-15%	Pass
Average Bias (B)			7.41			Average Bias (B)			-10.30		
Standard Deviation (S)			3.73			Standard Deviation (S)			2.57		
Measure Performance  B +S			11.14	<15%	Pass	Measure Performance  B +S			12.86	<15%	Pass
3rd Quarter 2015						4th Quarter 2015					
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
103243	20.29	18.7	8.68	<+/-15%	Pass	102869	72.88	66.9	8.91	<+/-15%	Pass
103294	20.64	18.7	10.55	<+/-15%	Pass	102239	71.35	66.9	6.62	<+/-15%	Pass
100502	19.30	18.7	3.37	<+/-15%	Pass	101338	72.24	66.9	7.95	<+/-15%	Pass
100025	19.51	18.7	4.50	<+/-15%	Pass	100372	69.80	66.9	4.30	<+/-15%	Pass
102816	21.91	18.7	17.35	<+/-15%	Fail	100357	70.90	66.9	5.95	<+/-15%	Pass
Average Bias (B)			8.89			Average Bias (B)			6.75		
Standard Deviation (S)			5.57			Standard Deviation (S)			1.78		
Measure Performance  B +S			14.46	<15%	Pass	Measure Performance  B +S			8.53	<15%	Pass

Fail - refer to NCR # 02012855

# TABLE 4.0-F (Cont.)

## Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD intracomparison 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.

1st Quarter 2015						2nd Quarter 2015					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103012	30.82	30.0	2.73	<+/-15%	Pass	100193	22.07	21.8	1.24	<+/-15%	Pass
103524	31.64	30.0	5.47	<+/-15%	Pass	101191	21.06	21.8	-3.39	<+/-15%	Pass
102769	32.31	30.0	7.70	<+/-15%	Pass	101201	21.74	21.8	-0.28	<+/-15%	Pass
103754	31.29	30.0	4.30	<+/-15%	Pass	100158	21.94	21.8	0.64	<+/-15%	Pass
102798	30.86	30.0	2.87	<+/-15%	Pass	101319	21.99	21.8	0.87	<+/-15%	Pass
103737	31.50	30.0	5.00	<+/-15%	Pass	101183	22.46	21.8	3.03	<+/-15%	Pass
102985	32.05	30.0	6.83	<+/-15%	Pass	101330	21.40	21.8	-1.83	<+/-15%	Pass
102108	29.99	30.0	-0.03	<+/-15%	Pass	100351	22.36	21.8	2.57	<+/-15%	Pass
102867	31.00	30.0	3.33	<+/-15%	Pass	101038	22.36	21.8	2.57	<+/-15%	Pass
103500	31.61	30.0	5.37	<+/-15%	Pass		22.49	21.8	3.17	<+/-15%	Pass
	Average Bias (B)		4.36				Average Bias (B)		0.86		
	Standard Deviation (S)		2.24				Standard Deviation (S)		2.18		
	Measure Performance  B +S		6.60	<15%	Pass		Measure Performance  B +S		3.04	<15%	Pass
3rd Quarter 2015						4th Quarter 2015					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103703	48.64	43.6	11.56	<+/-15%	Pass	100057	55.76	54.5	2.31	<+/-15%	Pass
102917	46.91	43.6	7.59	<+/-15%	Pass	103022	62.04	54.5	13.83	<+/-15%	Pass
100170	44.30	43.6	1.61	<+/-15%	Pass	103254	55.74	54.5	2.28	<+/-15%	Pass
102841	46.18	43.6	5.92	<+/-15%	Pass	100154	60.56	54.5	11.12	<+/-15%	Pass
101149	43.63	43.6	0.07	<+/-15%	Pass	103256	55.71	54.5	2.22	<+/-15%	Pass
102474	44.87	43.6	2.91	<+/-15%	Pass	101225	58.10	54.5	6.61	<+/-15%	Pass
100522	46.11	43.6	5.76	<+/-15%	Pass	100799	59.79	54.5	9.71	<+/-15%	Pass
103016	48.70	43.6	11.70	<+/-15%	Pass	100417	61.06	54.5	12.04	<+/-15%	Pass
100095	46.11	43.6	5.76	<+/-15%	Pass	103683	57.37	54.5	5.27	<+/-15%	Pass
100381	42.87	43.6	-1.67	<+/-15%	Pass	102114	55.74	54.5	2.28	<+/-15%	Pass
	Average Bias (B)		5.12				Average Bias (B)		6.77		
	Standard Deviation (S)		4.49				Standard Deviation (S)		4.58		
	Measure Performance  B +S		9.61	<15%	Pass		Measure Performance  B +S		11.34	<15%	Pass

**APPENDIX A**

**ENVIRONMENTAL SAMPLING  
&  
ANALYSIS PROCEDURES**



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# APPENDIX A

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## 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 Fisheries and Aquatic Ecology; 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 2015.

### I. CHANGE OF SAMPLING PROCEDURES

No changes were made to the sampling procedure during 2015.

### 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 monthly by 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**

Gross beta analysis of air particulate filters using an un-attenuated (single point) filter specific calibration in a flat bottom planchet was implemented from second quarter 2015 forward (NCR # 01938255).

REMP air sampling heads and air particulate filter media were changed to standardize the vendors, sampling head, and filter size across the REMP nuclear fleet (NCR # 00726335).

Sample Manager test code "H3-BIO-MAN" was added to BSEP sample InfoMaker Data Extraction Report 27APR2015 (NCR # 745841).

### **IV. SAMPLING AND ANALYSIS PROCEDURES**

#### **A.1 AIRBORNE PARTICULATE AND RADIOIODINE**

Air particulate and air cartridge/air 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 were composited to produce quarterly 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 (15) Surface Water samples are collected at different intervals as stated in the BSEP ODCM. 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. 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
Location 606	=	Nancy’s Creek Marsh Area – WP-74
Location 607	=	Nancy’s Creek Marsh Area – WP-76
Location 608	=	Nancy’s Creek Marsh Area – WP-82
Location 609	=	Nancy’s Creek Marsh Area – WP-84
Location 610	=	Nancy’s Creek Marsh Area – WP-88

## A.3 GROUND WATER

Grab samples were collected quarterly and semiannually from ground water wells at ten (10) 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 2015. 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 2.1-4). A gamma analysis was performed on the edible portions of each sample and tritium analysis on locations 706, 707, and 708. 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-B. 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 (NCR # 01962757).
- \* 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 23 and 24, 2015, and June 29 and 30, 2015. Results are shown in Tables 3.8-A and 3.8-B. No changes were made to the sampling procedures during 2015 as a result of the 2015 census.

**APPENDIX B**

**RADIOLOGICAL  
ENVIRONMENTAL MONITORING  
PROGRAM**

**SUMMARY OF RESULTS**

**2015**

**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: 2015

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	Location w/Highest Annual Mean <sup>(2)</sup>		Control Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>		
Air Particulate (pCi/m <sup>3</sup> )	Gross Beta 364 <sup>(4)</sup>	See Table 2.2-C	1.55E-2 (260/260) 4.29E-3 – 2.85E-2	Loc. # 203 Southport Substation 2.0 miles SSW	1.58E-2 (52/52) 5.80E-3 – 2.83E-2	Loc. # 204 & 206 1.60E-2 (104/104) 4.11E-3 – 2.83E-2	0
	Gamma <sup>(5)</sup> 28	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m <sup>3</sup> )	I-131 364 <sup>(4)</sup>	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma <sup>(4)(5)</sup> 60 Cs-137	See Table 2.2-C	All less than LLD	-----	-----	Loc. # 802 2.98E+1 (2/12) 2.23E+1 - 3.72E+1	0
Fish and Invertebrates (pCi/kg, wet)	Gamma <sup>(5)</sup> 18	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 3	4.0E+3 <sup>(8)</sup>	All less than LLD	-----	-----	No Control	0
Sediments -- Shoreline (pCi/kg, dry)	Gamma <sup>(5)</sup> 4 Cs-137	See Table 2.2-C	1.32E+2 (2/4) 1.27E+2 – 1.37E+2	Loc. # 501 Nancy's Creek adjacent to WP-55 near SDSP	1.32E+2 (2/2) 1.27E+2 – 1.37E+2	No Control <sup>(9)</sup>	0
	Hard-to-detects (Fe-55, Sr-89/90) 6	-----	All less than LLD	-----	-----	No Control	0



**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: 2015

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	Location w/Highest Annual Mean <sup>(2)</sup>		Control Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>		
Surface Water (pCi/l)	Gamma <sup>(5)</sup> 240	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium 700	3,000 <sup>(7)</sup>	8.47E+2 (45/636) 2.03E+2 – 5.44E+3	Loc. # 604 Nancy's Creek Marsh Area WP-92	1.02E+3 (34/52) 2.53E+2 – 5.44E+3	All less than LLD	0
Ground Water (pCi/l)	Gamma <sup>(5)</sup> 26	See Table 2.2-C	All less than LLD	----	-----	No Control	0
	Tritium 46	3,000 <sup>(7)</sup>	3.52E+2 (5/46) 2.57E+2 – 4.29E+2	Loc. # 423 (Well 24A) Near SDSF	4.02E+2 (1/6) Single Value	No Control	0
Direct Radiation (TLD) (mR per std. quarter) <sup>(6)</sup>	TLD Readout 179 <sup>(4)</sup>	-----	1.06E+1 (175/175) 6.53E+0 – 1.99E+1	Loc. # 39 5.3 miles SW	1.59E+1 (4/4) 1.33E+1 – 1.99E+1	Loc. #81 1.14E+1 (4/4) 8.80E+0 – 1.31E+1	0
Direct Radiation ISFSI (TLD - ISFSI) (mR per std. quarter) <sup>(6)</sup>	TLD Readout 16	-----	2.43E+1 (16/16) 1.60E+1 – 3.34E+1	Loc. # 85 SE Corner of ISFSI 0.09 miles ENE	2.81E+1 (4/4) 2.12E+1 – 3.34E+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  $2.50E+2$  pCi/L for samples that typically demonstrate activity less than the LLD. The LLD was lowered in order to maintain comparable LLD values with the NC Department of Health and Human Services (NCDHHS), Division of Public Health - State Lab of Public Health.
8. The tritium reporting limit for Fish per General Engineering Laboratories (GEL) is  $4.0E+3$  pCi/kilogram.
9. Shoreline Sediment background samples were collected in 2015, but are not an ODCM sample; therefore, are not recorded in the data (gamma and Hard-to-detects [Fe-55, Sr-89, and Sr-90]).

**APPENDIX C**

**SAMPLING DEVIATIONS  
&  
UNAVAILABLE ANALYSES**

# APPENDIX C

## BRUNSWICK NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

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

### C.1 SAMPLING DEVIATIONS

#### **Air Particulate and Air Radioiodines**

Any REMP weekly air samples (Air Cartridge or Air Radioiodine) that experience any downtime during a surveillance period will be reported as a Deviation and will be classified as a "Sampling Deviation". However, the sample will be counted and the data reported, whereas a Deviation with no available sample will be classified as an "Unavailable Analyses" and will not have any data reported. The air samplers operated for a total of 99.88% availability in 2015.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
205	2/10/15 – 2/17/15	PI	8.7 hrs. downtime due to power interruption caused by storm, windy conditions, and a blown fuse.	NCR # 732357
205	2/17/15 – 2/24/15	PI/BF	7.8 hrs. downtime due to blown fuse	NCR # 734506
203	5/26/15 – 6/2/15	PI	2.7 hrs. downtime due to transformer yard upgrades in Southport and service to a different pole.	NCR # 751346
201	6/15/15 – 6/23/15	PI	7.5 hrs. downtime due to thunderstorms in area and GFI outlet reset	NCR # 755458
203	6/15/15 – 6/23/15	PI/BF	6.0 hrs. downtime due to thunderstorms in area and blown fuse	NCR # 755459
205	6/15/15 – 6/23/15	PI	9.1 hrs. downtime due to thunderstorms in area and GFI outlet reset	NCR # 755460
201	6/23/15 – 6/30/15	PI	7.8 hrs. downtime due to storms in area and GFI outlet reset	NCR # 756240
201	7/7/15 – 7/14/15	PI	12.8 hrs. downtime due to thunderstorms in area and GFI outlet reset	NCR # 758799
201	8/4/15 – 8/11/15	PI	6.1 hrs. downtime due to thunderstorms in area and GFI outlet reset	NCR # 01941172
201	9/1/15 – 9/8/15	PI	2.5 hrs. downtime due to thunderstorms in area and GFI outlet reset.	NCR # 01950430
201	12/22/15 – 12/29/15	PI	2.0 hrs. downtime due to thunderstorms in area.	NCR # 01986733



## C.2 UNAVAILABLE ANALYSES

### Ground Water

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
404*	4/13/15 (2 <sup>nd</sup> Qtr. 2015)	OT	Missed sample (ODCM Well ESS-1B) due to a problem with the BNP Chemistry Scheduler Computer Program.*	NCR # 748640
423*	4/13/15 (2 <sup>nd</sup> Qtr. 2015)	OT	Missed sample (ODCM Well ESS-24A) due to a problem with the BNP Chemistry Scheduler Computer Program.*	NCR # 748640
424*	4/13/15 (2 <sup>nd</sup> Qtr. 2015)	OT	Missed sample (ODCM Well ESS-24B) due to a problem with the BNP Chemistry Scheduler Computer Program.*	NCR # 748640

\* All three GW wells were sampled as soon as the missed surveillance was discovered (5/12/15) and the computer issue was resolved.

### TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
24	1/6/15 – 4/4/15 (1 <sup>st</sup> Qtr. 2015)	OT	TLD missing in field from pole at the time of collection (work had been done in area around pole). Area was searched but TLD could not be found.	NCR # 741873

**APPENDIX D**

**ANALYTICAL DEVIATIONS**

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# APPENDIX D

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## BRUNSWICK NUCLEAR PLANT

### ANALYTICAL DEVIATIONS

During an audit, it was identified that some samples processed by the EnRad laboratory using the APEX gamma counting geometry 025LMAR310 did not have the required a priori lower limit of detection (LLD) calculated prior to performing the analysis. An a postori LLD was calculated and all required lower limit of detections were satisfied (NCR # 02021801). The failure to calculate the a priori LLD prior to performing the analysis is an Analytical Deviation.

EnRad performed an extent of condition to assess which samples had been processed in the EnRad APEX database using the 025LMAR310 geometry. The EnRad APEX database was examined and Brunswick fish indicator location # 708 (Sample Manager [SM] ID# 394648) and shoreline sediment indicator location # 501 (SM ID # 379751), were determined to have been impacted (NCR # 02022587 and NCR # 02024652). Brunswick Steam Electric Plant (BSEP) fish (invertebrates) indicator location # 708 is located in Nancy's Creek and BSEP shoreline sediment indicator location # 501 is located in Nancy's Creek adjacent to Waypoint -55 (WP-55) near the Storm Drain Stabilization Pond (SDSP). The impacted samples were assigned SM ID # 394648 with a collection period of 29SEP2015 and SM ID # 379751 with a collection period of 12MAY2015. The APEX gamma analysis results and the a postori LLDs were reviewed. The a postori LLDs satisfied the requirements of Brunswick Steam Electric Plant (BNP) OFF-SITE DOSE CALCULATION MANUAL (ODCM). While the a priori lower limits of detection (LLD) were not calculated prior to performing the analysis, all results were valid. There were no collection discrepancies identified with this sample.

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). Section 7.3.15, Table 7.3.15-1 Table Notations (a) and Section 7.4.1 f indicates that "Deviations are permitted from the required sampling schedule if specimens are unobtainable due to hazardous conditions, seasonal unavailability, malfunction of automatic sampling equipment, and other legitimate reasons. If specimens are unobtainable due to sampling equipment malfunction, every effort shall be made to complete corrective action prior to the end of the next sampling period. All deviations from the sampling schedule shall be documented in the Annual Radiological Environmental Operating Report." Sampling program deviations such as these are documented in the Annual Radiological Environmental Operating Report (AREOR) each year in Appendix D - Analytical Deviations (NCR # 02022587 and NCR # 02024652).

**APPENDIX E**

**RADIOLOGICAL  
ENVIRONMENTAL MONITORING  
PROGRAM RESULTS**

**2015**

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2015.

# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
365052	12/30/2014 - 1/6/2015	Beta	1.53E-02	4.41E-03	6.06E-03
365284	1/6/2015 - 1/13/2015	Beta	2.04E-02	4.49E-03	5.58E-03
366640	1/13/2015 - 1/20/2015	Beta	1.30E-02	4.18E-03	5.87E-03
367046	1/20/2015 - 1/27/2015	Beta	1.58E-02	4.07E-03	5.21E-03
367531	1/27/2015 - 2/3/2015	Beta	1.37E-02	4.21E-03	5.82E-03
368958	2/3/2015 - 2/10/2015	Beta	1.86E-02	4.23E-03	5.13E-03
369681	2/10/2015 - 2/17/2015	Beta	1.87E-02	4.44E-03	5.62E-03
370587	2/17/2015 - 2/24/2015	Beta	2.33E-02	4.62E-03	5.37E-03
371526	2/24/2015 - 3/3/2015	Beta	1.65E-02	4.61E-03	6.30E-03
371898	3/3/2015 - 3/10/2015	Beta	1.56E-02	4.24E-03	5.62E-03
372392	3/10/2015 - 3/17/2015	Beta	1.04E-02	3.93E-03	5.71E-03
373807	3/17/2015 - 3/24/2015	Beta	1.19E-02	3.97E-03	5.57E-03
374543	3/24/2015 - 3/31/2015	Beta	9.60E-03	4.12E-03	6.16E-03
373814	12/30/2014 - 3/31/2015	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.03E-03	0.00E+00	1.03E-03
		Be-7	1.73E-01	3.31E-02	2.08E-02
		K-40	1.41E-02	8.99E-03	3.81E-03
374920	3/31/2015 - 4/7/2015	Beta	1.24E-02	4.04E-03	5.62E-03
375611	4/7/2015 - 4/14/2015	Beta	1.26E-02	3.94E-03	5.35E-03
376815	4/14/2015 - 4/21/2015	Beta	8.10E-03	3.76E-03	5.64E-03
377477	4/21/2015 - 4/28/2015	Beta	1.91E-02	4.34E-03	5.39E-03
378041	4/28/2015 - 5/5/2015	Beta	7.44E-03	3.90E-03	6.00E-03
378441	5/5/2015 - 5/12/2015	Beta	1.04E-02	3.92E-03	5.69E-03
378937	5/12/2015 - 5/19/2015	Beta	1.24E-02	3.99E-03	5.56E-03
379443	5/19/2015 - 5/26/2015	Beta	1.48E-02	4.05E-03	5.32E-03





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
380167	5/26/2015 - 6/2/2015	Beta	1.04E-02	3.94E-03	5.70E-03
380455	6/2/2015 - 6/9/2015	Beta	6.66E-03	3.69E-03	5.74E-03
380787	6/9/2015 - 6/16/2015	Beta	1.86E-02	4.39E-03	5.62E-03
381222	6/16/2015 - 6/23/2015	Beta	1.71E-02	4.36E-03	5.75E-03
381581	6/23/2015 - 6/30/2015	Beta	1.58E-02	4.18E-03	5.48E-03
381229	3/31/2015 - 6/30/2015	Cs-134	<1.23E-03	0.00E+00	1.23E-03
		Cs-137	<5.45E-04	0.00E+00	5.45E-04
		Be-7	1.12E-01	2.54E-02	1.88E-02
		K-40	<2.60E-02	0.00E+00	2.60E-02
382147	6/30/2015 - 7/7/2015	Beta	1.20E-02	4.19E-03	6.03E-03
382573	7/7/2015 - 7/14/2015	Beta	1.70E-02	3.73E-03	4.61E-03
383503	7/14/2015 - 7/21/2015	Beta	1.74E-02	4.36E-03	5.69E-03
384075	7/21/2015 - 7/28/2015	Beta	1.61E-02	4.23E-03	5.52E-03
384625	7/28/2015 - 8/4/2015	Beta	1.98E-02	4.28E-03	5.12E-03
385393	8/4/2015 - 8/11/2015	Beta	1.17E-02	4.04E-03	5.73E-03
385912	8/11/2015 - 8/18/2015	Beta	1.76E-02	4.51E-03	5.98E-03
386807	8/18/2015 - 8/25/2015	Beta	1.49E-02	4.02E-03	5.23E-03
387399	8/25/2015 - 9/1/2015	Beta	1.64E-02	4.19E-03	5.42E-03
388727	9/1/2015 - 9/8/2015	Beta	1.79E-02	4.16E-03	5.19E-03
389392	9/8/2015 - 9/15/2015	Beta	1.52E-02	4.14E-03	5.48E-03
389993	9/15/2015 - 9/22/2015	Beta	2.13E-02	4.64E-03	5.77E-03
390598	9/22/2015 - 9/29/2015	Beta	5.81E-03	3.91E-03	6.23E-03
390605	6/30/2015 - 9/29/2015	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.03E-03	0.00E+00	1.03E-03
		Be-7	1.17E-01	2.76E-02	2.37E-02
		K-40	<2.48E-02	0.00E+00	2.48E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
391914	9/29/2015 - 10/6/2015	Beta	4.29E-03	2.41E-03	3.81E-03
392214	10/6/2015 - 10/13/2015	Beta	1.33E-02	4.40E-03	6.28E-03
393413	10/13/2015 - 10/20/2015	Beta	2.41E-02	4.57E-03	5.16E-03
393819	10/20/2015 - 10/27/2015	Beta	1.77E-02	4.01E-03	4.77E-03
394819	10/27/2015 - 11/3/2015	Beta	2.19E-02	4.46E-03	5.27E-03
395287	11/3/2015 - 11/10/2015	Beta	1.09E-02	3.96E-03	5.66E-03
395612	11/10/2015 - 11/17/2015	Beta	1.87E-02	4.27E-03	5.26E-03
396113	11/17/2015 - 11/24/2015	Beta	1.92E-02	4.56E-03	5.81E-03
396621	11/24/2015 - 12/1/2015	Beta	1.07E-02	4.06E-03	5.90E-03
397158	12/1/2015 - 12/8/2015	Beta	2.25E-02	4.79E-03	5.90E-03
397877	12/8/2015 - 12/15/2015	Beta	2.85E-02	5.01E-03	5.71E-03
398274	12/15/2015 - 12/22/2015	Beta	1.41E-02	4.35E-03	6.02E-03
398645	12/22/2015 - 12/29/2015	Beta	8.62E-03	3.25E-03	4.52E-03
398652	9/29/2015 - 12/29/2015	Cs-134	<1.31E-03	0.00E+00	1.31E-03
		Cs-137	<7.92E-04	0.00E+00	7.92E-04
		Be-7	1.16E-01	3.03E-02	2.53E-02
		K-40	<2.49E-02	0.00E+00	2.49E-02

## Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
365053	12/30/2014 - 1/6/2015	Beta	1.60E-02	4.44E-03	6.05E-03
365285	1/6/2015 - 1/13/2015	Beta	1.90E-02	4.40E-03	5.56E-03
366641	1/13/2015 - 1/20/2015	Beta	1.47E-02	4.33E-03	5.95E-03
367047	1/20/2015 - 1/27/2015	Beta	1.59E-02	4.16E-03	5.35E-03
367532	1/27/2015 - 2/3/2015	Beta	1.36E-02	4.23E-03	5.87E-03
368959	2/3/2015 - 2/10/2015	Beta	1.66E-02	4.12E-03	5.18E-03
369682	2/10/2015 - 2/17/2015	Beta	1.62E-02	4.32E-03	5.68E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
370588	2/17/2015 - 2/24/2015	Beta	2.45E-02	4.73E-03	5.43E-03
371527	2/24/2015 - 3/3/2015	Beta	1.86E-02	4.78E-03	6.39E-03
371899	3/3/2015 - 3/10/2015	Beta	1.62E-02	4.33E-03	5.71E-03
372393	3/10/2015 - 3/17/2015	Beta	9.90E-03	3.97E-03	5.82E-03
373808	3/17/2015 - 3/24/2015	Beta	1.59E-02	4.29E-03	5.68E-03
374544	3/24/2015 - 3/31/2015	Beta	1.04E-02	4.21E-03	6.23E-03
373815	12/30/2014 - 3/31/2015	Beta			
		Cs-134	<9.04E-04	0.00E+00	9.04E-04
		Cs-137	<8.29E-04	0.00E+00	8.29E-04
		Be-7	1.18E-01	2.64E-02	2.01E-02
		K-40	<2.20E-02	0.00E+00	2.20E-02
374921	3/31/2015 - 4/7/2015	Beta	1.20E-02	4.07E-03	5.73E-03
375612	4/7/2015 - 4/14/2015	Beta	1.32E-02	4.02E-03	5.45E-03
376816	4/14/2015 - 4/21/2015	Beta	5.07E-03	3.61E-03	5.77E-03
377478	4/21/2015 - 4/28/2015	Beta	1.48E-02	4.12E-03	5.46E-03
378042	4/28/2015 - 5/5/2015	Beta	5.35E-03	3.83E-03	6.14E-03
378442	5/5/2015 - 5/12/2015	Beta	1.69E-02	4.38E-03	5.77E-03
378938	5/12/2015 - 5/19/2015	Beta	1.23E-02	4.05E-03	5.67E-03
379444	5/19/2015 - 5/26/2015	Beta	1.78E-02	4.31E-03	5.45E-03
380168	5/26/2015 - 6/2/2015	Beta	1.23E-02	4.12E-03	5.80E-03
380456	6/2/2015 - 6/9/2015	Beta	6.82E-03	3.77E-03	5.85E-03
380788	6/9/2015 - 6/16/2015	Beta	1.75E-02	4.40E-03	5.76E-03
381223	6/16/2015 - 6/23/2015	Beta	2.22E-02	4.88E-03	6.14E-03
381582	6/23/2015 - 6/30/2015	Beta	1.35E-02	4.28E-03	5.90E-03
381230	3/31/2015 - 6/30/2015	Beta			
		Cs-134	<1.29E-03	0.00E+00	1.29E-03
		Cs-137	<1.10E-03	0.00E+00	1.10E-03
		Be-7	1.37E-01	2.92E-02	2.14E-02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
381230	3/31/2015 - 6/30/2015	K-40	<2.80E-02	0.00E+00	2.80E-02
382148	6/30/2015 - 7/7/2015	Beta	1.66E-02	4.44E-03	6.00E-03
382574	7/7/2015 - 7/14/2015	Beta	1.61E-02	4.51E-03	6.03E-03
383504	7/14/2015 - 7/21/2015	Beta	1.56E-02	4.22E-03	5.63E-03
384076	7/21/2015 - 7/28/2015	Beta	1.63E-02	4.22E-03	5.47E-03
384626	7/28/2015 - 8/4/2015	Beta	1.63E-02	4.04E-03	5.09E-03
385394	8/4/2015 - 8/11/2015	Beta	1.41E-02	4.36E-03	6.02E-03
385913	8/11/2015 - 8/18/2015	Beta	1.69E-02	4.46E-03	5.96E-03
386808	8/18/2015 - 8/25/2015	Beta	1.56E-02	4.05E-03	5.21E-03
387400	8/25/2015 - 9/1/2015	Beta	1.98E-02	4.38E-03	5.38E-03
388728	9/1/2015 - 9/8/2015	Beta	1.51E-02	4.02E-03	5.24E-03
389393	9/8/2015 - 9/15/2015	Beta	1.94E-02	4.40E-03	5.48E-03
389994	9/15/2015 - 9/22/2015	Beta	1.83E-02	4.42E-03	5.69E-03
390599	9/22/2015 - 9/29/2015	Beta	7.42E-03	4.01E-03	6.23E-03
390606	6/30/2015 - 9/29/2015	Cs-134	<1.27E-03	0.00E+00	1.27E-03
		Cs-137	<8.96E-04	0.00E+00	8.96E-04
		Be-7	1.14E-01	2.73E-02	1.86E-02
		K-40	2.46E-02	1.22E-02	3.93E-03
391915	9/29/2015 - 10/6/2015	Beta	5.98E-03	2.48E-03	3.79E-03
392215	10/6/2015 - 10/13/2015	Beta	1.52E-02	4.48E-03	6.21E-03
393414	10/13/2015 - 10/20/2015	Beta	2.42E-02	4.54E-03	5.12E-03
393820	10/20/2015 - 10/27/2015	Beta	1.80E-02	4.03E-03	4.76E-03
394820	10/27/2015 - 11/3/2015	Beta	1.83E-02	4.20E-03	5.19E-03
395288	11/3/2015 - 11/10/2015	Beta	1.17E-02	3.99E-03	5.61E-03
395613	11/10/2015 - 11/17/2015	Beta	1.65E-02	4.10E-03	5.21E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
396114	11/17/2015 - 11/24/2015	Beta	1.49E-02	4.26E-03	5.76E-03
396622	11/24/2015 - 12/1/2015	Beta	1.20E-02	4.08E-03	5.80E-03
397159	12/1/2015 - 12/8/2015	Beta	2.16E-02	4.69E-03	5.83E-03
397878	12/8/2015 - 12/15/2015	Beta	2.67E-02	4.89E-03	5.68E-03
398275	12/15/2015 - 12/22/2015	Beta	1.36E-02	4.25E-03	5.91E-03
398646	12/22/2015 - 12/29/2015	Beta	8.19E-03	3.24E-03	4.55E-03
398653	9/29/2015 - 12/29/2015	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.18E-03	0.00E+00	1.18E-03
		Be-7	1.28E-01	3.02E-02	2.02E-02
		K-40	<2.75E-02	0.00E+00	2.75E-02

## Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
365054	12/30/2014 - 1/6/2015	Beta	1.84E-02	4.42E-03	5.77E-03
365286	1/6/2015 - 1/13/2015	Beta	1.61E-02	4.08E-03	5.30E-03
366642	1/13/2015 - 1/20/2015	Beta	1.68E-02	4.25E-03	5.59E-03
367048	1/20/2015 - 1/27/2015	Beta	1.47E-02	3.86E-03	4.98E-03
367533	1/27/2015 - 2/3/2015	Beta	1.30E-02	3.97E-03	5.45E-03
368960	2/3/2015 - 2/10/2015	Beta	2.29E-02	4.39E-03	4.98E-03
369683	2/10/2015 - 2/17/2015	Beta	1.30E-02	3.92E-03	5.31E-03
370589	2/17/2015 - 2/24/2015	Beta	2.22E-02	4.38E-03	5.09E-03
371528	2/24/2015 - 3/3/2015	Beta	1.86E-02	4.50E-03	5.93E-03
371900	3/3/2015 - 3/10/2015	Beta	1.64E-02	4.08E-03	5.26E-03
372394	3/10/2015 - 3/17/2015	Beta	9.12E-03	3.65E-03	5.36E-03
373809	3/17/2015 - 3/24/2015	Beta	1.31E-02	3.87E-03	5.25E-03
374545	3/24/2015 - 3/31/2015	Beta	1.03E-02	3.95E-03	5.79E-03
373816	12/30/2014 - 3/31/2015	Cs-134	<8.47E-04	0.00E+00	8.47E-04





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
373816	12/30/2014 - 3/31/2015	Cs-137	<1.14E-03	0.00E+00	1.14E-03
		Be-7	1.46E-01	2.82E-02	1.54E-02
		K-40	<1.95E-02	0.00E+00	1.95E-02
374922	3/31/2015 - 4/7/2015	Beta	9.89E-03	3.67E-03	5.27E-03
375613	4/7/2015 - 4/14/2015	Beta	1.20E-02	3.79E-03	5.20E-03
376817	4/14/2015 - 4/21/2015	Beta	6.93E-03	3.57E-03	5.47E-03
377479	4/21/2015 - 4/28/2015	Beta	1.47E-02	4.00E-03	5.27E-03
378043	4/28/2015 - 5/5/2015	Beta	5.39E-03	3.67E-03	5.85E-03
378443	5/5/2015 - 5/12/2015	Beta	1.54E-02	4.17E-03	5.56E-03
378939	5/12/2015 - 5/19/2015	Beta	1.88E-02	4.30E-03	5.41E-03
379445	5/19/2015 - 5/26/2015	Beta	1.75E-02	4.12E-03	5.15E-03
380169	5/26/2015 - 6/2/2015	Beta	8.80E-03	3.73E-03	5.53E-03
380457	6/2/2015 - 6/9/2015	Beta	6.88E-03	3.60E-03	5.54E-03
380789	6/9/2015 - 6/16/2015	Beta	2.14E-02	4.44E-03	5.44E-03
381224	6/16/2015 - 6/23/2015	Beta	1.85E-02	4.32E-03	5.56E-03
381583	6/23/2015 - 6/30/2015	Beta	1.26E-02	3.89E-03	5.33E-03
381231	3/31/2015 - 6/30/2015	Cs-134	<9.78E-04	0.00E+00	9.78E-04
		Cs-137	<9.40E-04	0.00E+00	9.40E-04
		Be-7	1.47E-01	2.95E-02	2.11E-02
		K-40	<2.68E-02	0.00E+00	2.68E-02
382149	6/30/2015 - 7/7/2015	Beta	1.34E-02	4.13E-03	5.78E-03
382575	7/7/2015 - 7/14/2015	Beta	1.56E-02	4.06E-03	5.32E-03
383505	7/14/2015 - 7/21/2015	Beta	1.74E-02	4.19E-03	5.40E-03
384077	7/21/2015 - 7/28/2015	Beta	1.63E-02	4.08E-03	5.23E-03
384627	7/28/2015 - 8/4/2015	Beta	1.66E-02	3.93E-03	4.87E-03
385395	8/4/2015 - 8/11/2015	Beta	1.09E-02	3.84E-03	5.47E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
385914	8/11/2015 - 8/18/2015	Beta	1.76E-02	4.36E-03	5.72E-03
386809	8/18/2015 - 8/25/2015	Beta	1.79E-02	4.07E-03	5.00E-03
387401	8/25/2015 - 9/1/2015	Beta	1.90E-02	4.21E-03	5.19E-03
388729	9/1/2015 - 9/8/2015	Beta	2.00E-02	4.16E-03	4.99E-03
389394	9/8/2015 - 9/15/2015	Beta	1.54E-02	4.06E-03	5.31E-03
389995	9/15/2015 - 9/22/2015	Beta	2.05E-02	4.45E-03	5.52E-03
390600	9/22/2015 - 9/29/2015	Beta	6.34E-03	3.81E-03	6.00E-03
390607	6/30/2015 - 9/29/2015	Cs-134	<8.69E-04	0.00E+00	8.69E-04
		Cs-137	<7.91E-04	0.00E+00	7.91E-04
		Be-7	1.07E-01	2.73E-02	2.56E-02
		K-40	1.82E-02	1.08E-02	1.06E-02
391916	9/29/2015 - 10/6/2015	Beta	5.92E-03	2.41E-03	3.68E-03
392216	10/6/2015 - 10/13/2015	Beta	1.73E-02	4.53E-03	6.09E-03
393415	10/13/2015 - 10/20/2015	Beta	2.82E-02	4.71E-03	5.02E-03
393821	10/20/2015 - 10/27/2015	Beta	2.07E-02	4.11E-03	4.62E-03
394821	10/27/2015 - 11/3/2015	Beta	1.62E-02	4.01E-03	5.10E-03
395289	11/3/2015 - 11/10/2015	Beta	1.46E-02	4.09E-03	5.48E-03
395614	11/10/2015 - 11/17/2015	Beta	2.58E-02	4.63E-03	5.18E-03
396115	11/17/2015 - 11/24/2015	Beta	1.78E-02	4.36E-03	5.62E-03
396623	11/24/2015 - 12/1/2015	Beta	1.08E-02	3.98E-03	5.74E-03
397160	12/1/2015 - 12/8/2015	Beta	2.39E-02	4.76E-03	5.72E-03
397879	12/8/2015 - 12/15/2015	Beta	2.75E-02	4.86E-03	5.54E-03
398276	12/15/2015 - 12/22/2015	Beta	1.50E-02	4.30E-03	5.86E-03
398647	12/22/2015 - 12/29/2015	Beta	6.06E-03	2.96E-03	4.39E-03
398654	9/29/2015 - 12/29/2015	Cs-134	<1.46E-03	0.00E+00	1.46E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
398654	9/29/2015 - 12/29/2015	Cs-137	<5.60E-04	0.00E+00	5.60E-04
		Be-7	1.19E-01	2.85E-02	2.23E-02
		K-40	<2.57E-02	0.00E+00	2.57E-02

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365055	12/30/2014 - 1/6/2015	Beta	1.66E-02	4.48E-03	6.05E-03
365287	1/6/2015 - 1/13/2015	Beta	1.89E-02	4.40E-03	5.57E-03
366643	1/13/2015 - 1/20/2015	Beta	9.05E-03	3.92E-03	5.88E-03
367049	1/20/2015 - 1/27/2015	Beta	1.51E-02	4.04E-03	5.23E-03
367534	1/27/2015 - 2/3/2015	Beta	1.73E-02	4.37E-03	5.72E-03
368961	2/3/2015 - 2/10/2015	Beta	2.36E-02	4.59E-03	5.25E-03
369684	2/10/2015 - 2/17/2015	Beta	1.30E-02	4.10E-03	5.62E-03
370590	2/17/2015 - 2/24/2015	Beta	2.35E-02	4.63E-03	5.38E-03
371529	2/24/2015 - 3/3/2015	Beta	1.41E-02	4.47E-03	6.31E-03
371901	3/3/2015 - 3/10/2015	Beta	1.68E-02	4.32E-03	5.63E-03
372395	3/10/2015 - 3/17/2015	Beta	1.01E-02	3.94E-03	5.75E-03
373810	3/17/2015 - 3/24/2015	Beta	1.49E-02	4.19E-03	5.59E-03
374546	3/24/2015 - 3/31/2015	Beta	1.71E-02	4.56E-03	6.16E-03
373817	12/30/2014 - 3/31/2015	Cs-134	<1.04E-03	0.00E+00	1.04E-03
		Cs-137	<7.08E-04	0.00E+00	7.08E-04
		Be-7	1.62E-01	3.13E-02	1.98E-02
		K-40	<2.49E-02	0.00E+00	2.49E-02
374923	3/31/2015 - 4/7/2015	Beta	9.72E-03	3.88E-03	5.64E-03
375614	4/7/2015 - 4/14/2015	Beta	1.47E-02	4.07E-03	5.37E-03
376818	4/14/2015 - 4/21/2015	Beta	9.78E-03	3.87E-03	5.65E-03
377480	4/21/2015 - 4/28/2015	Beta	1.64E-02	4.20E-03	5.41E-03
378044	4/28/2015 - 5/5/2015	Beta	6.77E-03	3.84E-03	5.99E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
378444	5/5/2015 - 5/12/2015	Beta	1.18E-02	4.03E-03	5.71E-03
378940	5/12/2015 - 5/19/2015	Beta	1.33E-02	4.05E-03	5.56E-03
379446	5/19/2015 - 5/26/2015	Beta	1.92E-02	4.30E-03	5.31E-03
380170	5/26/2015 - 6/2/2015	Beta	1.07E-02	4.03E-03	5.82E-03
380458	6/2/2015 - 6/9/2015	Beta	5.80E-03	3.66E-03	5.77E-03
380790	6/9/2015 - 6/16/2015	Beta	1.61E-02	4.26E-03	5.66E-03
381225	6/16/2015 - 6/23/2015	Beta	1.61E-02	4.44E-03	5.98E-03
381584	6/23/2015 - 6/30/2015	Beta	1.58E-02	4.21E-03	5.54E-03
381232	3/31/2015 - 6/30/2015	Cs-134	<1.20E-03	0.00E+00	1.20E-03
		Cs-137	<9.54E-04	0.00E+00	9.54E-04
		Be-7	1.42E-01	3.06E-02	2.26E-02
		K-40	2.28E-02	1.44E-02	1.82E-02
382150	6/30/2015 - 7/7/2015	Beta	1.78E-02	4.52E-03	6.01E-03
382576	7/7/2015 - 7/14/2015	Beta	1.50E-02	4.15E-03	5.53E-03
383506	7/14/2015 - 7/21/2015	Beta	1.69E-02	4.29E-03	5.62E-03
384078	7/21/2015 - 7/28/2015	Beta	1.85E-02	4.33E-03	5.45E-03
384628	7/28/2015 - 8/4/2015	Beta	1.89E-02	4.19E-03	5.08E-03
385396	8/4/2015 - 8/11/2015	Beta	1.32E-02	4.10E-03	5.69E-03
385915	8/11/2015 - 8/18/2015	Beta	2.00E-02	4.64E-03	5.96E-03
386810	8/18/2015 - 8/25/2015	Beta	1.58E-02	4.07E-03	5.21E-03
387402	8/25/2015 - 9/1/2015	Beta	1.81E-02	4.29E-03	5.41E-03
388730	9/1/2015 - 9/8/2015	Beta	2.08E-02	4.33E-03	5.18E-03
389395	9/8/2015 - 9/15/2015	Beta	1.70E-02	4.26E-03	5.49E-03
389996	9/15/2015 - 9/22/2015	Beta	1.75E-02	4.39E-03	5.72E-03
390601	9/22/2015 - 9/29/2015	Beta	5.92E-03	3.89E-03	6.21E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
390608	6/30/2015 - 9/29/2015	Cs-134	<9.03E-04	0.00E+00	9.03E-04
		Cs-137	<9.18E-04	0.00E+00	9.18E-04
		Be-7	1.13E-01	2.76E-02	2.35E-02
		K-40	<2.05E-02	0.00E+00	2.05E-02
391917	9/29/2015 - 10/6/2015	Beta	6.62E-03	2.51E-03	3.79E-03
392217	10/6/2015 - 10/13/2015	Beta	1.90E-02	4.73E-03	6.27E-03
393416	10/13/2015 - 10/20/2015	Beta	2.44E-02	4.58E-03	5.15E-03
393822	10/20/2015 - 10/27/2015	Beta	2.03E-02	4.18E-03	4.77E-03
394822	10/27/2015 - 11/3/2015	Beta	2.07E-02	4.37E-03	5.25E-03
395290	11/3/2015 - 11/10/2015	Beta	9.05E-03	3.82E-03	5.64E-03
395615	11/10/2015 - 11/17/2015	Beta	2.17E-02	4.43E-03	5.25E-03
396116	11/17/2015 - 11/24/2015	Beta	2.14E-02	4.67E-03	5.78E-03
396624	11/24/2015 - 12/1/2015	Beta	1.28E-02	4.17E-03	5.87E-03
397161	12/1/2015 - 12/8/2015	Beta	2.28E-02	4.78E-03	5.87E-03
397880	12/8/2015 - 12/15/2015	Beta	2.83E-02	4.98E-03	5.68E-03
398277	12/15/2015 - 12/22/2015	Beta	1.24E-02	4.22E-03	5.98E-03
398648	12/22/2015 - 12/29/2015	Beta	8.28E-03	3.21E-03	4.48E-03
398655	9/29/2015 - 12/29/2015	Cs-134	<1.10E-03	0.00E+00	1.10E-03
		Cs-137	<1.05E-03	0.00E+00	1.05E-03
		Be-7	1.12E-01	2.86E-02	2.45E-02
		K-40	<2.56E-02	0.00E+00	2.56E-02

Sample Point 204 [ CONTROL - NNE @ 22.4 miles ]

365056	12/30/2014 - 1/6/2015	Beta	1.63E-02	4.49E-03	6.10E-03
365288	1/6/2015 - 1/13/2015	Beta	1.79E-02	4.42E-03	5.69E-03
366644	1/13/2015 - 1/20/2015	Beta	1.71E-02	4.46E-03	5.93E-03
367050	1/20/2015 - 1/27/2015	Beta	1.64E-02	4.16E-03	5.30E-03
367535	1/27/2015 - 2/3/2015	Beta	1.35E-02	4.23E-03	5.89E-03





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
368962	2/3/2015 - 2/10/2015	Beta	1.80E-02	4.24E-03	5.22E-03
369685	2/10/2015 - 2/17/2015	Beta	1.77E-02	4.41E-03	5.67E-03
370591	2/17/2015 - 2/24/2015	Beta	2.45E-02	4.69E-03	5.38E-03
371530	2/24/2015 - 3/3/2015	Beta	1.56E-02	4.63E-03	6.43E-03
371902	3/3/2015 - 3/10/2015	Beta	1.83E-02	4.47E-03	5.73E-03
372396	3/10/2015 - 3/17/2015	Beta	1.09E-02	4.03E-03	5.82E-03
373811	3/17/2015 - 3/24/2015	Beta	1.56E-02	4.28E-03	5.68E-03
374547	3/24/2015 - 3/31/2015	Beta	1.37E-02	4.41E-03	6.26E-03
373818	12/30/2014 - 3/31/2015	Cs-134	<1.32E-03	0.00E+00	1.32E-03
		Cs-137	<8.57E-04	0.00E+00	8.57E-04
		Be-7	1.16E-01	2.55E-02	1.47E-02
		K-40	2.17E-02	1.30E-02	1.45E-02
374924	3/31/2015 - 4/7/2015	Beta	1.39E-02	4.22E-03	5.78E-03
375615	4/7/2015 - 4/14/2015	Beta	1.40E-02	4.11E-03	5.51E-03
376819	4/14/2015 - 4/21/2015	Beta	8.02E-03	3.80E-03	5.74E-03
377481	4/21/2015 - 4/28/2015	Beta	1.43E-02	4.13E-03	5.53E-03
378045	4/28/2015 - 5/5/2015	Beta	9.65E-03	4.14E-03	6.18E-03
378445	5/5/2015 - 5/12/2015	Beta	1.10E-02	4.05E-03	5.84E-03
378941	5/12/2015 - 5/19/2015	Beta	1.27E-02	4.11E-03	5.73E-03
379447	5/19/2015 - 5/26/2015	Beta	2.31E-02	4.64E-03	5.48E-03
380171	5/26/2015 - 6/2/2015	Beta	1.49E-02	4.31E-03	5.85E-03
380459	6/2/2015 - 6/9/2015	Beta	4.94E-03	3.67E-03	5.90E-03
380791	6/9/2015 - 6/16/2015	Beta	1.74E-02	4.44E-03	5.83E-03
381226	6/16/2015 - 6/23/2015	Beta	1.41E-02	4.29E-03	5.93E-03
381585	6/23/2015 - 6/30/2015	Beta	1.85E-02	4.45E-03	5.66E-03



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
381233	3/31/2015 - 6/30/2015	Cs-134	<1.31E-03	0.00E+00	1.31E-03
		Cs-137	<8.47E-04	0.00E+00	8.47E-04
		Be-7	1.18E-01	2.71E-02	2.11E-02
		K-40	<2.56E-02	0.00E+00	2.56E-02
382151	6/30/2015 - 7/7/2015	Beta	1.46E-02	4.42E-03	6.16E-03
382577	7/7/2015 - 7/14/2015	Beta	2.22E-02	4.69E-03	5.72E-03
383507	7/14/2015 - 7/21/2015	Beta	1.58E-02	4.31E-03	5.76E-03
384079	7/21/2015 - 7/28/2015	Beta	1.76E-02	4.35E-03	5.58E-03
384629	7/28/2015 - 8/4/2015	Beta	1.54E-02	4.07E-03	5.25E-03
385397	8/4/2015 - 8/11/2015	Beta	1.30E-02	4.19E-03	5.83E-03
385916	8/11/2015 - 8/18/2015	Beta	1.83E-02	4.64E-03	6.13E-03
386811	8/18/2015 - 8/25/2015	Beta	1.84E-02	4.33E-03	5.39E-03
387403	8/25/2015 - 9/1/2015	Beta	1.73E-02	4.29E-03	5.50E-03
388731	9/1/2015 - 9/8/2015	Beta	2.63E-02	4.80E-03	5.44E-03
389396	9/8/2015 - 9/15/2015	Beta	1.21E-02	4.06E-03	5.68E-03
389997	9/15/2015 - 9/22/2015	Beta	2.16E-02	4.75E-03	5.93E-03
390602	9/22/2015 - 9/29/2015	Beta	6.01E-03	4.00E-03	6.38E-03
390609	6/30/2015 - 9/29/2015	Cs-134	<1.41E-03	0.00E+00	1.41E-03
		Cs-137	<1.20E-03	0.00E+00	1.20E-03
		Be-7	1.32E-01	3.27E-02	3.06E-02
		K-40	<2.68E-02	0.00E+00	2.68E-02
391918	9/29/2015 - 10/6/2015	Beta	4.52E-03	2.46E-03	3.90E-03
392218	10/6/2015 - 10/13/2015	Beta	1.77E-02	4.71E-03	6.37E-03
393417	10/13/2015 - 10/20/2015	Beta	2.83E-02	4.92E-03	5.35E-03
393823	10/20/2015 - 10/27/2015	Beta	2.30E-02	4.45E-03	4.96E-03
394823	10/27/2015 - 11/3/2015	Beta	1.99E-02	4.41E-03	5.38E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
395291	11/3/2015 - 11/10/2015	Beta	8.81E-03	3.85E-03	5.71E-03
395616	11/10/2015 - 11/17/2015	Beta	2.20E-02	4.60E-03	5.47E-03
396117	11/17/2015 - 11/24/2015	Beta	2.30E-02	4.80E-03	5.86E-03
396625	11/24/2015 - 12/1/2015	Beta	1.15E-02	4.24E-03	6.13E-03
397162	12/1/2015 - 12/8/2015	Beta	2.44E-02	4.91E-03	5.93E-03
397881	12/8/2015 - 12/15/2015	Beta	2.61E-02	4.97E-03	5.86E-03
398278	12/15/2015 - 12/22/2015	Beta	1.38E-02	4.38E-03	6.12E-03
398649	12/22/2015 - 12/29/2015	Beta	8.42E-03	3.31E-03	4.65E-03
398656	9/29/2015 - 12/29/2015	Cs-134	<8.19E-04	0.00E+00	8.19E-04
		Cs-137	<9.40E-04	0.00E+00	9.40E-04
		Be-7	9.08E-02	2.96E-02	3.23E-02
		K-40	<2.01E-02	0.00E+00	2.01E-02

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365057	12/30/2014 - 1/6/2015	Beta	1.82E-02	4.57E-03	6.05E-03
365289	1/6/2015 - 1/13/2015	Beta	1.85E-02	4.37E-03	5.56E-03
366645	1/13/2015 - 1/20/2015	Beta	1.79E-02	4.50E-03	5.92E-03
367051	1/20/2015 - 1/27/2015	Beta	1.82E-02	4.23E-03	5.24E-03
367536	1/27/2015 - 2/3/2015	Beta	1.40E-02	4.18E-03	5.74E-03
368963	2/3/2015 - 2/10/2015	Beta	1.82E-02	4.27E-03	5.26E-03
369686	2/10/2015 - 2/17/2015	Beta	2.19E-02	5.01E-03	6.25E-03
370592	2/17/2015 - 2/24/2015	Beta	2.65E-02	5.14E-03	5.89E-03
371531	2/24/2015 - 3/3/2015	Beta	1.60E-02	4.60E-03	6.35E-03
371903	3/3/2015 - 3/10/2015	Beta	1.56E-02	4.21E-03	5.57E-03
372397	3/10/2015 - 3/17/2015	Beta	1.11E-02	3.97E-03	5.69E-03
373812	3/17/2015 - 3/24/2015	Beta	1.59E-02	4.20E-03	5.53E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
374548	3/24/2015 - 3/31/2015	Beta	1.09E-02	4.16E-03	6.09E-03
373819	12/30/2014 - 3/31/2015	Cs-134	<7.18E-04	0.00E+00	7.18E-04
		Cs-137	<1.01E-03	0.00E+00	1.01E-03
		Be-7	1.17E-01	2.84E-02	2.73E-02
		K-40	<2.42E-02	0.00E+00	2.42E-02
374925	3/31/2015 - 4/7/2015	Beta	1.42E-02	4.14E-03	5.59E-03
375616	4/7/2015 - 4/14/2015	Beta	1.31E-02	3.94E-03	5.31E-03
376820	4/14/2015 - 4/21/2015	Beta	8.16E-03	3.73E-03	5.59E-03
377482	4/21/2015 - 4/28/2015	Beta	1.50E-02	4.08E-03	5.37E-03
378046	4/28/2015 - 5/5/2015	Beta	7.17E-03	3.84E-03	5.94E-03
378446	5/5/2015 - 5/12/2015	Beta	1.54E-02	4.23E-03	5.68E-03
378942	5/12/2015 - 5/19/2015	Beta	2.03E-02	4.49E-03	5.59E-03
379448	5/19/2015 - 5/26/2015	Beta	1.62E-02	4.16E-03	5.37E-03
380172	5/26/2015 - 6/2/2015	Beta	9.94E-03	3.95E-03	5.76E-03
380460	6/2/2015 - 6/9/2015	Beta	5.54E-03	3.64E-03	5.77E-03
380792	6/9/2015 - 6/16/2015	Beta	1.57E-02	4.24E-03	5.66E-03
381227	6/16/2015 - 6/23/2015	Beta	1.60E-02	4.50E-03	6.09E-03
381586	6/23/2015 - 6/30/2015	Beta	1.31E-02	4.05E-03	5.56E-03
381234	3/31/2015 - 6/30/2015	Cs-134	<1.04E-03	0.00E+00	1.04E-03
		Cs-137	<9.16E-04	0.00E+00	9.16E-04
		Be-7	1.29E-01	2.93E-02	2.59E-02
		K-40	<3.05E-02	0.00E+00	3.05E-02
382152	6/30/2015 - 7/7/2015	Beta	1.63E-02	4.43E-03	5.99E-03
382578	7/7/2015 - 7/14/2015	Beta	2.06E-02	4.49E-03	5.54E-03
383508	7/14/2015 - 7/21/2015	Beta	1.25E-02	4.02E-03	5.62E-03
384080	7/21/2015 - 7/28/2015	Beta	1.41E-02	4.07E-03	5.46E-03



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
384630	7/28/2015 - 8/4/2015	Beta	1.29E-02	3.81E-03	5.08E-03
385398	8/4/2015 - 8/11/2015	Beta	1.53E-02	4.24E-03	5.69E-03
385917	8/11/2015 - 8/18/2015	Beta	1.58E-02	4.39E-03	5.95E-03
386812	8/18/2015 - 8/26/2015	Beta	1.59E-02	4.07E-03	5.21E-03
387404	8/25/2015 - 9/1/2015	Beta	1.86E-02	4.32E-03	5.41E-03
388732	9/1/2015 - 9/8/2015	Beta	1.77E-02	4.14E-03	5.17E-03
389397	9/8/2015 - 9/15/2015	Beta	1.60E-02	4.19E-03	5.49E-03
389998	9/15/2015 - 9/22/2015	Beta	2.42E-02	4.78E-03	5.74E-03
390603	9/22/2015 - 9/29/2015	Beta	6.04E-03	3.91E-03	6.22E-03
390610	6/30/2015 - 9/29/2015	Cs-134	<7.16E-04	0.00E+00	7.16E-04
		Cs-137	<8.23E-04	0.00E+00	8.23E-04
		Be-7	1.14E-01	2.86E-02	2.66E-02
		K-40	1.99E-02	1.44E-02	1.99E-02
391919	9/29/2015 - 10/6/2015	Beta	4.65E-03	2.41E-03	3.79E-03
392219	10/6/2015 - 10/13/2015	Beta	1.24E-02	4.36E-03	6.29E-03
393418	10/13/2015 - 10/20/2015	Beta	2.83E-02	4.80E-03	5.16E-03
393824	10/20/2015 - 10/27/2015	Beta	1.60E-02	3.90E-03	4.79E-03
394824	10/27/2015 - 11/3/2015	Beta	2.13E-02	4.42E-03	5.26E-03
395292	11/3/2015 - 11/10/2015	Beta	9.59E-03	3.87E-03	5.65E-03
395617	11/10/2015 - 11/17/2015	Beta	1.68E-02	4.18E-03	5.29E-03
396118	11/17/2015 - 11/24/2015	Beta	1.96E-02	4.55E-03	5.77E-03
396626	11/24/2015 - 12/1/2015	Beta	1.37E-02	4.26E-03	5.92E-03
397163	12/1/2015 - 12/8/2015	Beta	2.16E-02	4.72E-03	5.89E-03
397882	12/8/2015 - 12/15/2015	Beta	2.55E-02	4.83E-03	5.68E-03
398279	12/15/2015 - 12/22/2015	Beta	1.60E-02	4.44E-03	5.98E-03





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
398650	12/22/2015 - 12/29/2015	Beta	6.94E-03	3.08E-03	4.46E-03
398657	9/29/2015 - 12/29/2015	Cs-134	<1.05E-03	0.00E+00	1.05E-03
		Cs-137	<9.16E-04	0.00E+00	9.16E-04
		Be-7	9.85E-02	2.85E-02	3.00E-02
		K-40	<2.96E-02	0.00E+00	2.96E-02

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365058	12/30/2014 - 1/6/2015	Beta	1.36E-02	4.36E-03	6.16E-03
365290	1/6/2015 - 1/13/2015	Beta	1.78E-02	4.43E-03	5.72E-03
366646	1/13/2015 - 1/20/2015	Beta	1.21E-02	4.18E-03	5.97E-03
367052	1/20/2015 - 1/27/2015	Beta	1.68E-02	4.19E-03	5.31E-03
367537	1/27/2015 - 2/3/2015	Beta	1.42E-02	4.32E-03	5.94E-03
368964	2/3/2015 - 2/10/2015	Beta	1.94E-02	4.33E-03	5.24E-03
369687	2/10/2015 - 2/17/2015	Beta	1.96E-02	4.54E-03	5.70E-03
370593	2/17/2015 - 2/24/2015	Beta	2.22E-02	4.62E-03	5.44E-03
371532	2/24/2015 - 3/3/2015	Beta	1.93E-02	4.86E-03	6.46E-03
371904	3/3/2015 - 3/10/2015	Beta	1.69E-02	4.38E-03	5.71E-03
372398	3/10/2015 - 3/17/2015	Beta	1.66E-02	4.37E-03	5.79E-03
373813	3/17/2015 - 3/24/2015	Beta	1.33E-02	4.14E-03	5.68E-03
374549	3/24/2015 - 3/31/2015	Beta	1.16E-02	4.26E-03	6.23E-03
373820	12/30/2014 - 3/31/2015	Cs-134	<9.40E-04	0.00E+00	9.40E-04
		Cs-137	<7.43E-04	0.00E+00	7.43E-04
		Be-7	1.41E-01	2.84E-02	1.33E-02
		K-40	1.15E-02	8.17E-03	3.88E-03
374926	3/31/2015 - 4/7/2015	Beta	1.19E-02	4.06E-03	5.74E-03
375617	4/7/2015 - 4/14/2015	Beta	1.46E-02	4.12E-03	5.44E-03
376821	4/14/2015 - 4/21/2015	Beta	8.46E-03	3.80E-03	5.68E-03
377483	4/21/2015 - 4/28/2015	Beta	2.04E-02	4.47E-03	5.47E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
378047	4/28/2015 - 5/5/2015	Beta	8.46E-03	4.04E-03	6.13E-03
378447	5/5/2015 - 5/12/2015	Beta	1.36E-02	4.18E-03	5.78E-03
378943	5/12/2015 - 5/19/2015	Beta	1.60E-02	4.27E-03	5.66E-03
379449	5/19/2015 - 5/26/2015	Beta	1.71E-02	4.25E-03	5.43E-03
380173	5/26/2015 - 6/2/2015	Beta	1.17E-02	4.07E-03	5.79E-03
380461	6/2/2015 - 6/9/2015	Beta	9.39E-03	3.94E-03	5.83E-03
380793	6/9/2015 - 6/16/2015	Beta	1.60E-02	4.31E-03	5.76E-03
381228	6/16/2015 - 6/23/2015	Beta	2.17E-02	4.68E-03	5.85E-03
381587	6/23/2015 - 6/30/2015	Beta	1.13E-02	3.95E-03	5.58E-03
381235	3/31/2015 - 6/30/2015	Nuclide	Activity	2 Sigma Error	LLD
		Cs-134	<7.03E-04	0.00E+00	7.03E-04
		Cs-137	<1.06E-03	0.00E+00	1.06E-03
		Be-7	1.10E-01	2.65E-02	2.33E-02
		K-40	<1.26E-02	0.00E+00	1.26E-02
382153	6/30/2015 - 7/7/2015	Beta	1.36E-02	4.31E-03	6.06E-03
382579	7/7/2015 - 7/14/2015	Beta	1.79E-02	4.38E-03	5.63E-03
383509	7/14/2015 - 7/21/2015	Beta	1.86E-02	4.43E-03	5.68E-03
384081	7/21/2015 - 7/28/2015	Beta	1.62E-02	4.24E-03	5.51E-03
384631	7/28/2015 - 8/4/2015	Beta	1.82E-02	4.20E-03	5.17E-03
385399	8/4/2015 - 8/11/2015	Beta	1.07E-02	3.99E-03	5.75E-03
385918	8/11/2015 - 8/18/2015	Beta	1.53E-02	4.42E-03	6.05E-03
386813	8/18/2015 - 8/25/2015	Beta	1.67E-02	4.18E-03	5.30E-03
387405	8/25/2015 - 9/1/2015	Beta	2.29E-02	4.57E-03	5.42E-03
388733	9/1/2015 - 9/8/2015	Beta	2.38E-02	4.61E-03	5.35E-03
389398	9/8/2015 - 9/15/2015	Beta	1.68E-02	4.31E-03	5.58E-03
389999	9/15/2015 - 9/22/2015	Beta	2.36E-02	4.82E-03	5.84E-03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
390604	9/22/2015 - 9/29/2015	Beta	4.11E-03	3.81E-03	6.27E-03
390611	6/30/2015 - 9/29/2015	Cs-134	<1.14E-03	0.00E+00	1.14E-03
		Cs-137	<1.00E-03	0.00E+00	1.00E-03
		Be-7	1.21E-01	3.24E-02	3.35E-02
		K-40	<2.64E-02	0.00E+00	2.64E-02
391920	9/29/2015 - 10/6/2015	Beta	5.04E-03	2.46E-03	3.83E-03
392220	10/6/2015 - 10/13/2015	Beta	1.59E-02	4.55E-03	6.27E-03
393419	10/13/2015 - 10/20/2015	Beta	2.17E-02	4.47E-03	5.25E-03
393825	10/20/2015 - 10/27/2015	Beta	2.14E-02	4.33E-03	4.91E-03
394825	10/27/2015 - 11/3/2015	Beta	2.36E-02	4.58E-03	5.29E-03
395293	11/3/2015 - 11/10/2015	Beta	1.20E-02	4.01E-03	5.63E-03
395618	11/10/2015 - 11/17/2015	Beta	1.87E-02	4.34E-03	5.39E-03
396119	11/17/2015 - 11/24/2015	Beta	1.73E-02	4.41E-03	5.76E-03
396627	11/24/2015 - 12/1/2015	Beta	1.28E-02	4.27E-03	6.03E-03
397164	12/1/2015 - 12/8/2015	Beta	2.20E-02	4.71E-03	5.84E-03
397883	12/8/2015 - 12/15/2015	Beta	2.79E-02	5.00E-03	5.75E-03
398280	12/15/2015 - 12/22/2015	Beta	1.21E-02	4.22E-03	6.01E-03
398651	12/22/2015 - 12/29/2015	Beta	6.70E-03	3.12E-03	4.55E-03
398658	9/29/2015 - 12/29/2015	Cs-134	<1.42E-03	0.00E+00	1.42E-03
		Cs-137	<1.12E-03	0.00E+00	1.12E-03
		Be-7	1.19E-01	3.03E-02	2.50E-02
		K-40	1.31E-02	1.29E-02	1.95E-02

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

Sample Point 200 [ INDICATOR - WSW @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365059	12/30/2014 - 1/6/2015	I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	1.09E+00	4.80E-01	5.19E-01
365291	1/6/2015 - 1/13/2015	I-131	<2.99E-02	0.00E+00	2.99E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
365291	1/6/2015 - 1/13/2015	Cs-134	<3.66E-02	0.00E+00	3.66E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	1.22E+00	4.52E-01	3.12E-01
366647	1/13/2015 - 1/20/2015	I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<3.40E-02	0.00E+00	3.40E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	1.14E+00	4.86E-01	1.35E-01
367053	1/20/2015 - 1/27/2015	I-131	<3.75E-02	0.00E+00	3.75E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	6.96E-01	4.65E-01	5.86E-01
367538	1/27/2015 - 2/3/2015	I-131	<3.42E-02	0.00E+00	3.42E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<3.19E-02	0.00E+00	3.19E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
		K-40	1.31E+00	4.51E-01	9.88E-02
368965	2/3/2015 - 2/10/2015	I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<3.44E-02	0.00E+00	3.44E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	1.19E+00	5.65E-01	5.02E-01
369688	2/10/2015 - 2/17/2015	I-131	<1.66E-02	0.00E+00	1.66E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	8.58E-01	3.12E-01	2.84E-01
370594	2/17/2015 - 2/24/2015	I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<8.83E-02	0.00E+00	8.83E-02
		K-40	8.27E-01	3.00E-01	2.51E-01
371533	2/24/2015 - 3/3/2015	I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	9.72E-01	3.01E-01	5.85E-02
371905	3/3/2015 - 3/10/2015	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<9.57E-02	0.00E+00	9.57E-02
		K-40	8.54E-01	2.93E-01	2.00E-01
372399	3/10/2015 - 3/17/2015	I-131	<1.61E-02	0.00E+00	1.61E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
372399	3/10/2015 - 3/17/2015	Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	1.04E+00	3.28E-01	2.26E-01
373821	3/17/2015 - 3/24/2015	I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<9.54E-02	0.00E+00	9.54E-02
		K-40	1.11E+00	3.20E-01	5.66E-02
374550	3/24/2015 - 3/31/2015	I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<3.37E-02	0.00E+00	3.37E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	1.45E+00	4.73E-01	9.81E-02
374927	3/31/2015 - 4/7/2015	I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	8.37E-01	3.15E-01	3.14E-01
375618	4/7/2015 - 4/14/2015	I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	1.32E+00	4.75E-01	3.63E-01
376822	4/14/2015 - 4/21/2015	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<3.25E-02	0.00E+00	3.25E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	9.30E-01	4.48E-01	5.05E-01
377484	4/21/2015 - 4/28/2015	I-131	<1.74E-02	0.00E+00	1.74E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	8.04E-01	2.71E-01	5.74E-02
378048	4/28/2015 - 5/5/2015	I-131	<3.79E-02	0.00E+00	3.79E-02
		Cs-134	<3.38E-02	0.00E+00	3.38E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<2.55E-01	0.00E+00	2.55E-01
		K-40	9.00E-01	4.02E-01	3.70E-01
378448	5/5/2015 - 5/12/2015	I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	7.99E-01	2.69E-01	5.70E-02
378944	5/12/2015 - 5/19/2015	I-131	<3.65E-02	0.00E+00	3.65E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	1.18E+00	4.44E-01	3.32E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
379450	5/19/2015 - 5/26/2015	I-131	<1.74E-02	0.00E+00	1.74E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<5.60E-01	0.00E+00	5.60E-01
380174	5/26/2015 - 6/2/2015	I-131	<4.12E-02	0.00E+00	4.12E-02
		Cs-134	<3.56E-02	0.00E+00	3.55E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	1.20E+00	5.19E-01	5.91E-01
380462	6/2/2015 - 6/9/2015	I-131	<2.20E-02	0.00E+00	2.20E-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	<1.05E-01	0.00E+00	1.05E-01
		K-40	<6.05E-01	0.00E+00	6.05E-01
380794	6/9/2015 - 6/16/2015	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	8.42E-01	4.24E-01	4.89E-01
381236	6/16/2015 - 6/23/2015	I-131	<3.79E-02	0.00E+00	3.79E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<2.02E-01	0.00E+00	2.02E-01
		K-40	9.58E-01	4.03E-01	3.37E-01
381588	6/23/2015 - 6/30/2015	I-131	<3.29E-02	0.00E+00	3.29E-02
		Cs-134	<3.31E-02	0.00E+00	3.31E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	9.11E-01	3.65E-01	9.50E-02
382154	6/30/2015 - 7/7/2015	I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<3.48E-02	0.00E+00	3.48E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	9.21E-01	4.58E-01	5.43E-01
382580	7/7/2015 - 7/14/2015	I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	<7.48E-01	0.00E+00	7.48E-01
383510	7/14/2015 - 7/21/2015	I-131	<4.22E-02	0.00E+00	4.22E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<4.16E-02	0.00E+00	4.16E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<9.44E-01	0.00E+00	9.44E-01
384082	7/21/2015 - 7/28/2015	I-131	<1.39E-02	0.00E+00	1.39E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
384082	7/21/2015 - 7/28/2015	Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<8.69E-02	0.00E+00	8.69E-02
		K-40	<6.40E-01	0.00E+00	6.40E-01
384632	7/28/2015 - 8/4/2015	I-131	<1.59E-02	0.00E+00	1.59E-02
		Cs-134	<1.04E-02	0.00E+00	1.04E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	1.17E+00	3.29E-01	5.58E-02
385400	8/4/2015 - 8/11/2015	I-131	<3.90E-02	0.00E+00	3.90E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	<9.60E-01	0.00E+00	9.60E-01
385919	8/11/2015 - 8/18/2015	I-131	<2.03E-02	0.00E+00	2.03E-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	<1.40E-01	0.00E+00	1.40E-01
		K-40	8.60E-01	2.80E-01	5.68E-02
386814	8/18/2015 - 8/25/2015	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<2.60E-01	0.00E+00	2.60E-01
		K-40	9.81E-01	4.36E-01	4.44E-01
387406	8/25/2015 - 9/1/2015	I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	6.75E-01	2.88E-01	3.08E-01
388734	9/1/2015 - 9/8/2015	I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	8.62E-01	4.11E-01	4.38E-01
389399	9/8/2015 - 9/15/2015	I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	8.18E-01	2.69E-01	5.54E-02
390000	9/15/2015 - 9/22/2015	I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	1.46E+00	4.73E-01	9.68E-02
390612	9/22/2015 - 9/29/2015	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<3.87E-02	0.00E+00	3.87E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
390612	9/22/2015 - 9/29/2015	K-40	1.11E+00	4.80E-01	5.08E-01
391921	9/29/2015 - 10/6/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<3.53E-02	0.00E+00	3.53E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
392221	10/6/2015 - 10/13/2015	K-40	<1.06E+00	0.00E+00	1.06E+00
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
393420	10/13/2015 - 10/20/2015	Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	9.48E-01	4.22E-01	4.02E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<4.52E-02	0.00E+00	4.52E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
393826	10/20/2015 - 10/27/2015	Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<2.45E-01	0.00E+00	2.45E-01
		K-40	1.56E+00	5.58E-01	5.35E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.47E-02	0.00E+00	1.47E-02
394826	10/27/2015 - 11/3/2015	Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	9.73E-01	3.18E-01	2.28E-01
		Nuclide	Activity	2 Sigma Error	LLD
395294	11/3/2015 - 11/10/2015	I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	1.19E+00	4.61E-01	3.91E-01
395619	11/10/2015 - 11/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
396120	11/17/2015 - 11/24/2015	K-40	6.21E-01	2.72E-01	2.76E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02
396628	11/24/2015 - 12/1/2015	Be-7	<2.42E-01	0.00E+00	2.42E-01
		K-40	9.33E-01	3.74E-01	9.73E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<5.10E-02	0.00E+00	5.10E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<2.95E-02	0.00E+00	2.95E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	1.46E+00	4.25E-01	7.74E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<3.72E-02	0.00E+00	3.72E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	1.68E+00	5.46E-01	4.12E-01
		Nuclide	Activity	2 Sigma Error	LLD



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
397165	12/1/2015 - 12/8/2015	I-131	<1.83E-02	0.00E+00	1.83E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<7.89E-02	0.00E+00	7.89E-02
		K-40	8.90E-01	3.24E-01	2.91E-01
397884	12/8/2015 - 12/15/2015	I-131	<4.02E-02	0.00E+00	4.02E-02
		Cs-134	<3.30E-02	0.00E+00	3.30E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	1.29E+00	4.93E-01	4.41E-01
398281	12/15/2015 - 12/22/2015	I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.12E-02	0.00E+00	1.12E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	6.33E-01	2.42E-01	5.92E-01
398659	12/22/2015 - 12/29/2015	I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	<6.00E-01	0.00E+00	6.00E-01

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365060	12/30/2014 - 1/6/2015	I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	1.15E+00	4.89E-01	5.14E-01
365292	1/6/2015 - 1/13/2015	I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	8.53E-01	4.17E-01	4.52E-01
366648	1/13/2015 - 1/20/2015	I-131	<4.22E-02	0.00E+00	4.22E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<7.77E-03	0.00E+00	7.77E-03
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	1.43E+00	5.89E-01	4.80E-01
367054	1/20/2015 - 1/27/2015	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	1.37E+00	4.15E-01	2.78E-01
367539	1/27/2015 - 2/3/2015	I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	1.14E+00	4.20E-01	9.96E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
368966	2/3/2015 - 2/10/2015	I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	1.03E+00	3.98E-01	9.95E-02
369689	2/10/2015 - 2/17/2015	I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<9.68E-02	0.00E+00	9.68E-02
		K-40	7.28E-01	2.69E-01	6.37E-02
370595	2/17/2015 - 2/24/2015	I-131	<1.71E-02	0.00E+00	1.71E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	8.37E-01	3.07E-01	2.27E-01
371534	2/24/2015 - 3/3/2015	I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	9.54E-01	3.24E-01	2.55E-01
371906	3/3/2015 - 3/10/2015	I-131	<1.58E-02	0.00E+00	1.58E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	4.17E-01	2.30E-01	2.59E-01
372400	3/10/2015 - 3/17/2015	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	8.59E-01	2.79E-01	5.68E-02
373822	3/17/2015 - 3/24/2015	I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	8.93E-01	3.17E-01	2.83E-01
374551	3/24/2015 - 3/31/2015	I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<3.20E-02	0.00E+00	3.20E-02
		Cs-137	<3.61E-02	0.00E+00	3.61E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	8.77E-01	4.84E-01	6.20E-01
374928	3/31/2015 - 4/7/2015	I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-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	6.52E-01	2.59E-01	2.08E-01
375619	4/7/2015 - 4/14/2015	I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
375619	4/7/2015 - 4/14/2015	Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	1.15E+00	4.19E-01	9.78E-02
376823	4/14/2015 - 4/21/2015	I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	1.10E+00	4.11E-01	9.92E-02
377485	4/21/2015 - 4/28/2015	I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<8.95E-03	0.00E+00	8.95E-03
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	8.75E-01	2.81E-01	5.65E-02
378049	4/28/2015 - 5/5/2015	I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<3.78E-02	0.00E+00	3.78E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	8.90E-01	4.81E-01	6.10E-01
378449	5/5/2015 - 5/12/2015	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<9.20E-03	0.00E+00	9.20E-03
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<8.65E-02	0.00E+00	8.65E-02
		K-40	6.99E-01	2.51E-01	5.74E-02
378945	5/12/2015 - 5/19/2015	I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	1.48E+00	4.78E-01	9.77E-02
379451	5/19/2015 - 5/26/2015	I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	6.64E-01	4.09E-01	5.29E-01
380175	5/26/2015 - 6/2/2015	I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<3.26E-02	0.00E+00	3.26E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.91E-01	0.00E+00	1.91E-01
		K-40	1.19E+00	4.58E-01	3.80E-01
380463	6/2/2015 - 6/9/2015	I-131	<1.48E-02	0.00E+00	1.48E-02
		Cs-134	<9.18E-03	0.00E+00	9.18E-03
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	5.29E-01	2.17E-01	5.73E-02
380795	6/9/2015 - 6/16/2015	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380795	6/9/2015 - 6/16/2015	K-40	1.08E+00	4.35E-01	3.71E-01
381237	6/16/2015 - 6/23/2015	I-131	<4.23E-02	0.00E+00	4.23E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<3.03E-02	0.00E+00	3.03E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	1.17E+00	4.60E-01	3.77E-01
381589	6/23/2015 - 6/30/2015	I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<4.07E-02	0.00E+00	4.07E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	1.32E+00	4.59E-01	1.02E-01
382155	6/30/2015 - 7/7/2015	I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<3.80E-02	0.00E+00	3.80E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	1.06E+00	3.96E-01	9.55E-02
382581	7/7/2015 - 7/14/2015	I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<3.74E-02	0.00E+00	3.74E-02
		Cs-137	<4.13E-02	0.00E+00	4.13E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	8.35E-01	4.66E-01	5.82E-01
383511	7/14/2015 - 7/21/2015	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.40E-01	0.00E+00	2.40E-01
		K-40	1.12E+00	5.01E-01	5.74E-01
384083	7/21/2015 - 7/28/2015	I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<9.43E-02	0.00E+00	9.43E-02
		K-40	7.15E-01	2.69E-01	2.08E-01
384633	7/28/2015 - 8/4/2015	I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<9.11E-03	0.00E+00	9.11E-03
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	8.82E-01	3.17E-01	2.92E-01
385401	8/4/2015 - 8/11/2015	I-131	<3.06E-02	0.00E+00	3.06E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<3.69E-02	0.00E+00	3.69E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	<1.09E+00	0.00E+00	1.09E+00
385920	8/11/2015 - 8/18/2015	I-131	<1.57E-02	0.00E+00	1.57E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.10E-02	0.00E+00	1.10E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	7.51E-01	2.56E-01	5.50E-02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
386815	8/18/2015 - 8/25/2015	I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	1.28E+00	4.57E-01	3.43E-01
387407	8/25/2015 - 9/1/2015	I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	1.03E+00	3.26E-01	2.34E-01
388735	9/1/2015 - 9/8/2015	I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	1.45E+00	4.67E-01	9.56E-02
389400	9/8/2015 - 9/15/2015	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<7.14E-02	0.00E+00	7.14E-02
		K-40	8.96E-01	2.96E-01	2.07E-01
390001	9/15/2015 - 9/22/2015	I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<3.44E-02	0.00E+00	3.44E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	1.30E+00	4.42E-01	9.54E-02
390613	9/22/2015 - 9/29/2015	I-131	<3.64E-02	0.00E+00	3.64E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.43E+00	4.69E-01	9.71E-02
391922	9/29/2015 - 10/6/2015	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	1.12E+00	4.37E-01	3.44E-01
392222	10/6/2015 - 10/13/2015	I-131	<4.13E-02	0.00E+00	4.13E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<1.03E+00	0.00E+00	1.03E+00
393421	10/13/2015 - 10/20/2015	I-131	<4.73E-02	0.00E+00	4.73E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	7.59E-01	4.17E-01	5.06E-01
393827	10/20/2015 - 10/27/2015	I-131	<1.71E-02	0.00E+00	1.71E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
393827	10/20/2015 - 10/27/2015	Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	7.25E-01	2.86E-01	2.76E-01
394827	10/27/2015 - 11/3/2015	I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.42E+00	4.63E-01	9.59E-02
395295	11/3/2015 - 11/10/2015	I-131	<1.21E-02	0.00E+00	1.21E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	6.30E-01	2.79E-01	2.74E-01
395620	11/10/2015 - 11/17/2015	I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<3.11E-02	0.00E+00	3.11E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	1.17E+00	5.31E-01	6.36E-01
396121	11/17/2015 - 11/24/2015	I-131	<4.35E-02	0.00E+00	4.35E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	1.54E+00	4.91E-01	9.91E-02
396629	11/24/2015 - 12/1/2015	I-131	<4.05E-02	0.00E+00	4.05E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<2.70E-01	0.00E+00	2.70E-01
		K-40	1.42E+00	4.94E-01	3.81E-01
397166	12/1/2015 - 12/8/2015	I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	9.48E-01	4.32E-01	4.32E-01
397885	12/8/2015 - 12/15/2015	I-131	<4.29E-02	0.00E+00	4.29E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	1.41E+00	4.66E-01	9.78E-02
398282	12/15/2015 - 12/22/2015	I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	7.81E-01	2.97E-01	2.79E-01
398660	12/22/2015 - 12/29/2015	I-131	<4.37E-02	0.00E+00	4.37E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 201 [ INDICATOR - NE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398660	12/22/2015 - 12/29/2015	K-40	1.27E+00	4.70E-01	3.65E-01

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365061	12/30/2014 - 1/6/2015	I-131	<3.75E-02	0.00E+00	3.75E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	1.32E+00	4.67E-01	3.50E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365293	1/6/2015 - 1/13/2015	I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	9.21E-01	4.51E-01	5.32E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366649	1/13/2015 - 1/20/2015	I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	1.27E+00	3.89E-01	2.71E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367055	1/20/2015 - 1/27/2015	I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	8.52E-01	3.72E-01	4.00E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367540	1/27/2015 - 2/3/2015	I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<3.17E-02	0.00E+00	3.17E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	9.71E-01	4.60E-01	5.37E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
368967	2/3/2015 - 2/10/2015	I-131	<3.87E-02	0.00E+00	3.87E-02
		Cs-134	<3.33E-02	0.00E+00	3.33E-02
		Cs-137	<3.97E-02	0.00E+00	3.97E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	8.51E-01	4.06E-01	4.25E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369690	2/10/2015 - 2/17/2015	I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	6.15E-01	2.75E-01	3.02E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
370596	2/17/2015 - 2/24/2015	I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<7.32E-03	0.00E+00	7.32E-03
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<5.90E-02	0.00E+00	5.90E-02
		K-40	7.54E-01	2.72E-01	1.98E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
371535	2/24/2015 - 3/3/2015	I-131	<1.53E-02	0.00E+00	1.53E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<5.59E-02	0.00E+00	5.59E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
371535	2/24/2015 - 3/3/2015	K-40	8.18E-01	2.66E-01	5.41E-02
371907	3/3/2015 - 3/10/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.31E-02	0.00E+00	1.31E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<8.95E-02	0.00E+00	8.95E-02
372401	3/10/2015 - 3/17/2015	K-40	7.66E-01	2.55E-01	5.32E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
373823	3/17/2015 - 3/24/2015	Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<7.60E-02	0.00E+00	7.60E-02
		K-40	6.55E-01	2.90E-01	3.19E-01
		Nuclide	Activity	2 Sigma Error	LLD
374552	3/24/2015 - 3/31/2015	I-131	<1.76E-02	0.00E+00	1.76E-02
		Cs-134	<7.54E-03	0.00E+00	7.54E-03
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<9.93E-02	0.00E+00	9.93E-02
		K-40	8.73E-01	3.07E-01	2.50E-01
374929	3/31/2015 - 4/7/2015				
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.50E-02	0.00E+00	1.50E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
375620	4/7/2015 - 4/14/2015	Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	<5.47E-01	0.00E+00	5.47E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.21E-02	0.00E+00	3.21E-02
376824	4/14/2015 - 4/21/2015	Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	8.86E-01	4.14E-01	4.38E-01
377486	4/21/2015 - 4/28/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.76E-02	0.00E+00	2.76E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
378050	4/28/2015 - 5/5/2015	K-40	1.09E+00	4.58E-01	4.60E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<7.91E-02	0.00E+00	7.91E-02
		K-40	7.72E-01	3.11E-01	3.15E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.82E-02	0.00E+00	3.82E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	1.11E+00	5.09E-01	6.03E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378450	5/5/2015 - 5/12/2015	I-131	<1.54E-02	0.00E+00	1.54E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	1.02E+00	3.00E-01	5.41E-02
378946	5/12/2015 - 5/19/2015	I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	<8.78E-01	0.00E+00	8.78E-01
379452	5/19/2015 - 5/26/2015	I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<3.33E-02	0.00E+00	3.33E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	8.53E-01	3.49E-01	9.25E-02
380176	5/26/2015 - 6/2/2015	I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<2.31E-01	0.00E+00	2.31E-01
		K-40	1.23E+00	4.55E-01	3.69E-01
380464	6/2/2015 - 6/9/2015	I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<7.71E-02	0.00E+00	7.71E-02
		K-40	6.46E-01	2.42E-01	5.83E-02
380796	6/9/2015 - 6/16/2015	I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.95E-02	0.00E+00	2.95E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	7.08E-01	3.15E-01	9.14E-02
381238	6/16/2015 - 6/23/2015	I-131	<3.82E-02	0.00E+00	3.82E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<3.33E-02	0.00E+00	3.33E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	9.47E-01	3.67E-01	9.17E-02
381590	6/23/2015 - 6/30/2015	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	1.13E+00	4.03E-01	9.24E-02
382156	6/30/2015 - 7/7/2015	I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	8.04E-01	4.28E-01	5.26E-01
382582	7/7/2015 - 7/14/2015	I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
382582	7/7/2015 - 7/14/2015	Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	1.52E+00	4.70E-01	9.15E-02
383512	7/14/2015 - 7/21/2015	I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	1.12E+00	4.00E-01	9.18E-02
384084	7/21/2015 - 7/28/2015	I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.10E-02	0.00E+00	1.10E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<6.03E-02	0.00E+00	6.03E-02
		K-40	7.93E-01	2.90E-01	2.31E-01
384634	7/28/2015 - 8/4/2015	I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	9.01E-01	3.04E-01	2.59E-01
385402	8/4/2015 - 8/11/2015	I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.27E-02	0.00E+00	2.27E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<9.01E-01	0.00E+00	9.01E-01
385921	8/11/2015 - 8/18/2015	I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<7.67E-02	0.00E+00	7.67E-02
		K-40	9.45E-01	3.30E-01	2.97E-01
386816	8/18/2015 - 8/25/2015	I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	1.21E+00	4.64E-01	4.27E-01
387408	8/25/2015 - 9/1/2015	I-131	<1.46E-02	0.00E+00	1.46E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<9.99E-02	0.00E+00	9.99E-02
		K-40	7.29E-01	2.52E-01	5.49E-02
388736	9/1/2015 - 9/8/2015	I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	1.37E+00	4.44E-01	9.08E-02
389401	9/8/2015 - 9/15/2015	I-131	<1.42E-02	0.00E+00	1.42E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389401	9/8/2015 - 9/15/2015	K-40	8.14E-01	2.81E-01	2.10E-01
390002	9/15/2015 - 9/22/2015	I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	1.42E+00	4.95E-01	4.09E-01
390614	9/22/2015 - 9/29/2015	I-131	<3.18E-02	0.00E+00	3.18E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<3.56E-02	0.00E+00	3.56E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	1.21E+00	4.20E-01	9.35E-02
391923	9/29/2015 - 10/6/2015	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<3.22E-02	0.00E+00	3.22E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	1.21E+00	4.22E-01	9.39E-02
392223	10/6/2015 - 10/13/2015	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	1.29E+00	4.65E-01	3.43E-01
393422	10/13/2015 - 10/20/2015	I-131	<4.20E-02	0.00E+00	4.20E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<3.76E-02	0.00E+00	3.76E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	1.12E+00	4.05E-01	9.44E-02
393828	10/20/2015 - 10/27/2015	I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	7.58E-01	3.12E-01	3.27E-01
394828	10/27/2015 - 11/3/2015	I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	9.16E-01	4.62E-01	5.60E-01
395296	11/3/2015 - 11/10/2015	I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	6.99E-01	3.13E-01	3.72E-01
395621	11/10/2015 - 11/17/2015	I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<3.65E-02	0.00E+00	3.65E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	8.12E-01	3.45E-01	9.57E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 202 [ INDICATOR - S @ 1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396122	11/17/2015 - 11/24/2015	I-131	<5.55E-02	0.00E+00	5.55E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.65E-02	0.00E+00	2.65E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	8.24E-01	4.38E-01	5.53E-01
396630	11/24/2015 - 12/1/2015	I-131	<4.01E-02	0.00E+00	4.01E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	1.21E+00	4.68E-01	4.19E-01
397167	12/1/2015 - 12/8/2015	I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	<1.02E+00	0.00E+00	1.02E+00
397886	12/8/2015 - 12/15/2015	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	1.27E+00	4.66E-01	3.68E-01
398283	12/15/2015 - 12/22/2015	I-131	<1.65E-02	0.00E+00	1.65E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<9.17E-02	0.00E+00	9.17E-02
		K-40	1.08E+00	3.35E-01	2.29E-01
398661	12/22/2015 - 12/29/2015	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<2.59E-02	0.00E+00	2.59E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	9.40E-01	3.70E-01	9.43E-02

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365062	12/30/2014 - 1/6/2015	I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	8.30E-01	3.53E-01	9.78E-02
365294	1/6/2015 - 1/13/2015	I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	1.13E+00	2.95E-01	2.65E-01
366650	1/13/2015 - 1/20/2015	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<7.99E-01	0.00E+00	7.99E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367056	1/20/2015 - 1/27/2015	I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<9.42E-02	0.00E+00	9.42E-02
		K-40	6.86E-01	2.58E-01	6.20E-02
367541	1/27/2015 - 2/3/2015	I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	1.20E+00	5.39E-01	6.41E-01
368968	2/3/2015 - 2/10/2015	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<3.67E-02	0.00E+00	3.67E-02
		Be-7	<2.97E-01	0.00E+00	2.97E-01
		K-40	<1.07E+00	0.00E+00	1.07E+00
369691	2/10/2015 - 2/17/2015	I-131	<4.57E-02	0.00E+00	4.57E-02
		Cs-134	<2.78E-02	0.00E+00	2.78E-02
		Cs-137	<4.24E-02	0.00E+00	4.24E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	1.06E+00	4.96E-01	1.52E-01
370597	2/17/2015 - 2/24/2015	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<3.45E-02	0.00E+00	3.45E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	1.19E+00	4.66E-01	3.88E-01
371536	2/24/2015 - 3/3/2015	I-131	<1.66E-02	0.00E+00	1.66E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	5.70E-01	2.68E-01	2.90E-01
371908	3/3/2015 - 3/10/2015	I-131	<1.53E-02	0.00E+00	1.53E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	8.47E-01	3.17E-01	2.73E-01
372402	3/10/2015 - 3/17/2015	I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<3.01E-02	0.00E+00	3.01E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	1.55E+00	4.89E-01	9.76E-02
373824	3/17/2015 - 3/24/2015	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.37E-02	0.00E+00	1.37E-02
		Be-7	<9.88E-02	0.00E+00	9.88E-02
		K-40	8.75E-01	2.83E-01	5.78E-02
374553	3/24/2015 - 3/31/2015	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
374553	3/24/2015 - 3/31/2015	Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	1.40E+00	5.15E-01	4.61E-01
374930	3/31/2015 - 4/7/2015	I-131	<1.83E-02	0.00E+00	1.83E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	7.80E-01	2.85E-01	2.35E-01
375621	4/7/2015 - 4/14/2015	I-131	<4.02E-02	0.00E+00	4.02E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	1.07E+00	4.70E-01	5.04E-01
376825	4/14/2015 - 4/21/2015	I-131	<3.66E-02	0.00E+00	3.66E-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	<1.90E-01	0.00E+00	1.90E-01
		K-40	1.02E+00	4.19E-01	3.44E-01
377487	4/21/2015 - 4/28/2015	I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.03E-01	2.68E-01	3.29E-01
378051	4/28/2015 - 5/5/2015	I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	1.15E+00	4.45E-01	3.55E-01
378451	5/5/2015 - 5/12/2015	I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	5.88E-01	3.26E-01	4.32E-01
378947	5/12/2015 - 5/19/2015	I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	1.38E+00	4.87E-01	3.75E-01
379453	5/19/2015 - 5/26/2015	I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<3.07E-02	0.00E+00	3.07E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	1.13E+00	4.09E-01	9.53E-02
380177	5/26/2015 - 6/2/2015	I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
380177	5/26/2015 - 6/2/2015	K-40	1.19E+00	4.25E-01	9.75E-02
380465	6/2/2015 - 6/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
380797	6/9/2015 - 6/16/2015	K-40	1.24E+00	4.32E-01	9.60E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.73E-02	0.00E+00	3.73E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
381239	6/16/2015 - 6/23/2015	Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	1.32E+00	4.91E-01	4.40E-01
		Nuclide	Activity	2 Sigma Error	LLD
381591	6/23/2015 - 6/30/2015	I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<3.39E-02	0.00E+00	3.39E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	1.38E+00	4.63E-01	9.87E-02
382157	6/30/2015 - 7/7/2015				
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
382583	7/7/2015 - 7/14/2015	Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	3.22E-01	4.35E-01	7.20E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.16E-02	0.00E+00	3.16E-02
383513	7/14/2015 - 7/21/2015	Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	1.23E+00	5.01E-01	5.21E-01
384085	7/21/2015 - 7/28/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.73E-02	0.00E+00	3.73E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<3.79E-02	0.00E+00	3.79E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
384635	7/28/2015 - 8/4/2015	K-40	1.40E+00	4.93E-01	3.90E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
384085	7/21/2015 - 7/28/2015	Cs-137	<4.53E-02	0.00E+00	4.53E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	1.06E+00	3.96E-01	9.56E-02
		Nuclide	Activity	2 Sigma Error	LLD
384085	7/21/2015 - 7/28/2015	I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<3.37E-03	0.00E+00	3.37E-03
		Be-7	<8.59E-02	0.00E+00	8.59E-02
		K-40	<6.07E-01	0.00E+00	6.07E-01
384635	7/28/2015 - 8/4/2015				
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
384635	7/28/2015 - 8/4/2015	Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	9.38E-01	3.17E-01	2.28E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
385403	8/4/2015 - 8/11/2015	I-131	<4.43E-02	0.00E+00	4.43E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<3.82E-02	0.00E+00	3.82E-02
		Be-7	<2.62E-01	0.00E+00	2.62E-01
		K-40	1.06E+00	3.98E-01	9.60E-02
385922	8/11/2015 - 8/18/2015	I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	9.03E-01	4.85E-01	6.22E-01
386817	8/18/2015 - 8/25/2015	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	1.13E+00	4.78E-01	5.00E-01
387409	8/25/2015 - 9/1/2015	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-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	7.78E-01	2.91E-01	2.61E-01
388737	9/1/2015 - 9/8/2015	I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<3.04E-02	0.00E+00	3.04E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<9.97E-01	0.00E+00	9.97E-01
389402	9/8/2015 - 9/15/2015	I-131	<1.35E-02	0.00E+00	1.35E-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	<8.29E-02	0.00E+00	8.29E-02
		K-40	1.04E+00	3.50E-01	3.37E-01
390003	9/15/2015 - 9/22/2015	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<3.45E-02	0.00E+00	3.45E-02
		Cs-137	<3.29E-02	0.00E+00	3.29E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	1.03E+00	3.90E-01	9.59E-02
390615	9/22/2015 - 9/29/2015	I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<3.51E-02	0.00E+00	3.51E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	9.04E-01	4.33E-01	4.76E-01
391924	9/29/2015 - 10/6/2015	I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	1.22E+00	4.29E-01	9.68E-02
392224	10/6/2015 - 10/13/2015	I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<3.18E-02	0.00E+00	3.18E-02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
392224	10/6/2015 - 10/13/2015	Cs-137	<3.19E-02	0.00E+00	3.19E-02
		Be-7	<2.37E-01	0.00E+00	2.37E-01
		K-40	6.61E-01	4.05E-01	5.18E-01
393423	10/13/2015 - 10/20/2015	I-131	<3.83E-02	0.00E+00	3.83E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	1.32E+00	4.48E-01	9.69E-02
393829	10/20/2015 - 10/27/2015	I-131	<8.98E-03	0.00E+00	8.98E-03
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	7.15E-01	2.53E-01	5.70E-02
394829	10/27/2015 - 11/3/2015	I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	1.40E+00	4.63E-01	9.71E-02
395297	11/3/2015 - 11/10/2015	I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	6.67E-01	2.47E-01	5.83E-02
395622	11/10/2015 - 11/17/2015	I-131	<4.09E-02	0.00E+00	4.09E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<3.33E-02	0.00E+00	3.33E-02
		Be-7	<3.92E-02	0.00E+00	3.92E-02
		K-40	1.11E+00	4.09E-01	9.71E-02
396123	11/17/2015 - 11/24/2015	I-131	<5.29E-02	0.00E+00	5.29E-02
		Cs-134	<3.22E-02	0.00E+00	3.22E-02
		Cs-137	<3.42E-02	0.00E+00	3.42E-02
		Be-7	<2.52E-01	0.00E+00	2.52E-01
		K-40	1.18E+00	4.27E-01	9.96E-02
396631	11/24/2015 - 12/1/2015	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<3.33E-02	0.00E+00	3.33E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	1.36E+00	4.56E-01	9.71E-02
397168	12/1/2015 - 12/8/2015	I-131	<4.01E-02	0.00E+00	4.01E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<3.45E-02	0.00E+00	3.45E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	1.30E+00	4.52E-01	1.01E-01
397887	12/8/2015 - 12/15/2015	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<3.73E-02	0.00E+00	3.73E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 203 [ INDICATOR - SSW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
397887	12/8/2015 - 12/15/2015	K-40	1.20E+00	4.59E-01	3.74E-01
398284	12/15/2015 - 12/22/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.53E-02	0.00E+00	3.53E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
398662	12/22/2015 - 12/29/2015	K-40	7.71E-01	3.13E-01	3.08E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.88E-02	0.00E+00	3.88E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	9.02E-01	3.95E-01	3.43E-01

Sample Point 204 [ CONTROL - NNE @ 22.4 miles ]

365063	12/30/2014 - 1/6/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<4.05E-02	0.00E+00	4.05E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
365295	1/6/2015 - 1/13/2015	K-40	1.24E+00	4.37E-01	9.88E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.73E-02	0.00E+00	3.73E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
366651	1/13/2015 - 1/20/2015	Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	1.07E+00	4.06E-01	9.97E-02
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
367057	1/20/2015 - 1/27/2015	Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	8.53E-01	3.17E-01	2.67E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.58E-02	0.00E+00	1.58E-02
367542	1/27/2015 - 2/3/2015	Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	7.78E-01	2.67E-01	5.85E-02
		Nuclide	Activity	2 Sigma Error	LLD
368969	2/3/2015 - 2/10/2015	I-131	<4.32E-02	0.00E+00	4.32E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	1.47E+00	5.18E-01	4.17E-01
369692	2/10/2015 - 2/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<3.46E-02	0.00E+00	3.46E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
369692	2/10/2015 - 2/17/2015	K-40	1.26E+00	4.82E-01	4.02E-01
370598	2/17/2015 - 2/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<4.03E-02	0.00E+00	4.03E-02
		Cs-134	<3.11E-02	0.00E+00	3.11E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
371537	2/24/2015 - 3/3/2015	K-40	1.13E+00	4.49E-01	3.62E-01
371537	2/24/2015 - 3/3/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<8.86E-02	0.00E+00	8.86E-02
371909	3/3/2015 - 3/10/2015	K-40	7.28E-01	2.58E-01	5.81E-02
371909	3/3/2015 - 3/10/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
372403	3/10/2015 - 3/17/2015	K-40	7.52E-01	2.81E-01	2.16E-01
372403	3/10/2015 - 3/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<9.16E-03	0.00E+00	9.16E-03
		Be-7	<1.15E-01	0.00E+00	1.15E-01
373825	3/17/2015 - 3/24/2015	K-40	7.72E-01	2.66E-01	5.81E-02
373825	3/17/2015 - 3/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.68E-02	0.00E+00	1.68E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<9.88E-02	0.00E+00	9.88E-02
374554	3/24/2015 - 3/31/2015	K-40	7.35E-01	2.61E-01	5.86E-02
374554	3/24/2015 - 3/31/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<3.07E-02	0.00E+00	3.07E-02
		Cs-137	<2.74E-02	0.00E+00	2.74E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
374931	3/31/2015 - 4/7/2015	K-40	1.40E+00	4.68E-01	9.96E-02
374931	3/31/2015 - 4/7/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.82E-02	0.00E+00	1.82E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
375622	4/7/2015 - 4/14/2015	K-40	5.89E-01	2.57E-01	2.19E-01
375622	4/7/2015 - 4/14/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
376826	4/14/2015 - 4/21/2015	K-40	<1.06E+00	0.00E+00	1.06E+00
376826	4/14/2015 - 4/21/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.28E-02	0.00E+00	3.28E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<3.39E-02	0.00E+00	3.39E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
376826	4/14/2015 - 4/21/2015	K-40	1.06E+00	5.08E-01	6.12E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
377488	4/21/2015 - 4/28/2015	I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	4.95E-01	2.74E-01	3.45E-01
378052	4/28/2015 - 5/5/2015	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<3.35E-02	0.00E+00	3.35E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	8.31E-01	4.77E-01	6.22E-01
378452	5/5/2015 - 5/12/2015	I-131	<4.00E-02	0.00E+00	4.00E-02
		Cs-134	<3.56E-02	0.00E+00	3.56E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	9.96E-01	5.22E-01	6.72E-01
378948	5/12/2015 - 5/19/2015	I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
		K-40	8.86E-01	3.98E-01	3.55E-01
379454	5/19/2015 - 5/26/2015	I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
		K-40	8.54E-01	4.66E-01	5.88E-01
380178	5/26/2015 - 6/2/2015	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<3.16E-02	0.00E+00	3.16E-02
		Cs-137	<3.91E-02	0.00E+00	3.91E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	1.09E+00	4.45E-01	3.95E-01
380466	6/2/2015 - 6/9/2015	I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<3.74E-02	0.00E+00	3.74E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	1.55E+00	5.29E-01	4.20E-01
380798	6/9/2015 - 6/16/2015	I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<4.36E-02	0.00E+00	4.36E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	9.19E-01	4.71E-01	5.74E-01
381240	6/16/2015 - 6/23/2015	I-131	<3.66E-02	0.00E+00	3.66E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	1.27E+00	4.73E-01	3.84E-01
381592	6/23/2015 - 6/30/2015	I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
381592	6/23/2015 - 6/30/2015	Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	1.52E+00	4.86E-01	9.81E-02
382158	6/30/2015 - 7/7/2015	I-131	<4.09E-02	0.00E+00	4.09E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<3.56E-02	0.00E+00	3.56E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	1.05E+00	4.36E-01	3.85E-01
382584	7/7/2015 - 7/14/2015	I-131	<3.95E-02	0.00E+00	3.95E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	9.49E-01	4.16E-01	3.79E-01
383514	7/14/2015 - 7/21/2015	I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<2.47E-01	0.00E+00	2.47E-01
		K-40	8.25E-01	4.75E-01	6.23E-01
384086	7/21/2015 - 7/28/2015	I-131	<1.28E-02	0.00E+00	1.28E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	8.93E-01	2.87E-01	5.76E-02
384636	7/28/2015 - 8/4/2015	I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	9.65E-01	3.19E-01	2.44E-01
385404	8/4/2015 - 8/11/2015	I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	7.54E-01	4.19E-01	5.09E-01
385923	8/11/2015 - 8/18/2015	I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	<1.04E+00	0.00E+00	1.04E+00
386818	8/18/2015 - 8/25/2015	I-131	<3.96E-02	0.00E+00	3.96E-02
		Cs-134	<2.40E-02	0.00E+00	2.40E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<2.47E-01	0.00E+00	2.47E-01
		K-40	9.38E-01	4.68E-01	5.54E-01
387410	8/25/2015 - 9/1/2015	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<9.58E-02	0.00E+00	9.58E-02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
387410	8/25/2015 - 9/1/2015	K-40	7.61E-01	2.95E-01	2.79E-01
388738	9/1/2015 - 9/8/2015	I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	1.68E+00	5.15E-01	9.91E-02
389403	9/8/2015 - 9/15/2015	I-131	<1.43E-02	0.00E+00	1.43E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	1.26E+00	3.69E-01	2.68E-01
390004	9/15/2015 - 9/22/2015	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<3.41E-02	0.00E+00	3.41E-02
		Be-7	<2.80E-01	0.00E+00	2.80E-01
		K-40	<1.02E+00	0.00E+00	1.02E+00
390616	9/22/2015 - 9/29/2015	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<3.79E-02	0.00E+00	3.79E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	9.30E-01	4.46E-01	4.92E-01
391925	9/29/2015 - 10/6/2015	I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<3.21E-02	0.00E+00	3.21E-02
		Be-7	<2.84E-01	0.00E+00	2.84E-01
		K-40	9.35E-01	4.82E-01	5.92E-01
392225	10/6/2015 - 10/13/2015	I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<4.00E-02	0.00E+00	4.00E-02
		Be-7	<2.53E-01	0.00E+00	2.53E-01
		K-40	1.44E+00	4.77E-01	1.00E-01
393424	10/13/2015 - 10/20/2015	I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	1.10E+00	4.73E-01	4.75E-01
393830	10/20/2015 - 10/27/2015	I-131	<3.93E-02	0.00E+00	3.93E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	6.53E-01	4.29E-01	5.79E-01
394830	10/27/2015 - 11/3/2015	I-131	<3.78E-02	0.00E+00	3.78E-02
		Cs-134	<2.92E-02	0.00E+00	2.92E-02
		Cs-137	<3.21E-02	0.00E+00	3.21E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
		K-40	9.97E-01	4.40E-01	4.32E-01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
395298	11/3/2015 - 11/10/2015	I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	7.95E-01	3.29E-01	3.47E-01
395623	11/10/2015 - 11/17/2015	I-131	<3.89E-02	0.00E+00	3.89E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<3.86E-02	0.00E+00	3.86E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	<9.18E-01	0.00E+00	9.18E-01
396124	11/17/2015 - 11/24/2015	I-131	<4.87E-02	0.00E+00	4.87E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<4.02E-02	0.00E+00	4.02E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	9.55E-01	4.45E-01	4.68E-01
396632	11/24/2015 - 12/1/2015	I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	1.19E+00	4.75E-01	4.23E-01
397169	12/1/2015 - 12/8/2015	I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<2.56E-01	0.00E+00	2.56E-01
		K-40	1.35E+00	4.63E-01	1.02E-01
397888	12/8/2015 - 12/15/2015	I-131	<5.14E-02	0.00E+00	5.14E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<9.51E-01	0.00E+00	9.51E-01
398285	12/15/2015 - 12/22/2015	I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	1.03E+00	3.42E-01	2.79E-01
398663	12/22/2015 - 12/29/2015	I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<4.15E-02	0.00E+00	4.15E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	1.81E+00	5.38E-01	9.99E-02

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365064	12/30/2014 - 1/6/2015	I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<3.90E-02	0.00E+00	3.90E-02
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	1.26E+00	5.23E-01	5.69E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365296	1/6/2015 - 1/13/2015	I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<2.72E-02	0.00E+00	2.72E-02
		Cs-137	<3.36E-02	0.00E+00	3.36E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<1.12E+00	0.00E+00	1.12E+00
366652	1/13/2015 - 1/20/2015	I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<1.11E-02	0.00E+00	1.11E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<9.88E-02	0.00E+00	9.88E-02
		K-40	7.29E-01	2.82E-01	2.44E-01
367058	1/20/2015 - 1/27/2015	I-131	<4.48E-02	0.00E+00	4.48E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<8.61E-03	0.00E+00	8.61E-03
		Be-7	<3.13E-01	0.00E+00	3.13E-01
		K-40	1.54E+00	5.97E-01	1.49E-01
367543	1/27/2015 - 2/3/2015	I-131	<4.09E-02	0.00E+00	4.09E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.31E-01	0.00E+00	2.31E-01
		K-40	1.12E+00	4.43E-01	3.67E-01
368970	2/3/2015 - 2/10/2015	I-131	<3.06E-02	0.00E+00	3.06E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	8.31E-01	3.62E-01	3.48E-01
369693	2/10/2015 - 2/17/2015	I-131	<3.80E-02	0.00E+00	3.80E-02
		Cs-134	<3.26E-02	0.00E+00	3.26E-02
		Cs-137	<3.82E-02	0.00E+00	3.82E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
		K-40	<1.05E+00	0.00E+00	1.05E+00
370599	2/17/2015 - 2/24/2015	I-131	<5.37E-02	0.00E+00	5.37E-02
		Cs-134	<3.44E-02	0.00E+00	3.44E-02
		Cs-137	<3.05E-02	0.00E+00	3.05E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	1.39E+00	6.16E-01	5.17E-01
371538	2/24/2015 - 3/3/2015	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.19E-02	0.00E+00	1.19E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	8.40E-01	3.47E-01	3.80E-01
371910	3/3/2015 - 3/10/2015	I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	1.28E+00	4.66E-01	3.34E-01
372404	3/10/2015 - 3/17/2015	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
372404	3/10/2015 - 3/17/2015	Cs-137	<3.11E-02	0.00E+00	3.11E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	1.23E+00	4.54E-01	3.38E-01
373826	3/17/2015 - 3/24/2015	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<1.05E-02	0.00E+00	1.05E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	9.17E-01	3.04E-01	2.15E-01
374555	3/24/2015 - 3/31/2015	I-131	<3.67E-02	0.00E+00	3.67E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<4.18E-02	0.00E+00	4.18E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	1.87E+00	5.68E-01	3.86E-01
374932	3/31/2015 - 4/7/2015	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	6.25E-01	3.11E-01	3.81E-01
375623	4/7/2015 - 4/14/2015	I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<3.27E-02	0.00E+00	3.27E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	8.65E-01	3.80E-01	3.13E-01
376827	4/14/2015 - 4/21/2015	I-131	<3.47E-02	0.00E+00	3.47E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<3.14E-01	0.00E+00	3.14E-01
		K-40	8.51E-01	3.55E-01	9.61E-02
377489	4/21/2015 - 4/28/2015	I-131	<1.48E-02	0.00E+00	1.48E-02
		Cs-134	<1.42E-02	0.00E+00	1.41E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<9.73E-02	0.00E+00	9.73E-02
		K-40	7.63E-01	3.64E-01	4.73E-01
378053	4/28/2015 - 5/5/2015	I-131	<4.21E-02	0.00E+00	4.21E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.25E+00	4.56E-01	3.28E-01
378453	5/5/2015 - 5/12/2015	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	1.31E+00	4.44E-01	9.59E-02
378949	5/12/2015 - 5/19/2015	I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.97E-02	0.00E+00	2.97E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<2.40E-01	0.00E+00	2.40E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378949	5/12/2015 - 5/19/2015	K-40	9.20E-01	4.23E-01	4.34E-01
379455	5/19/2015 - 5/26/2015	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	8.54E-01	4.51E-01	5.53E-01
380179	5/26/2015 - 6/2/2015	I-131	<4.00E-02	0.00E+00	4.00E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<3.11E-02	0.00E+00	3.11E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.51E+00	5.05E-01	3.52E-01
380467	6/2/2015 - 6/9/2015	I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.49E+00	4.76E-01	9.61E-02
380799	6/9/2015 - 6/16/2015	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<3.06E-02	0.00E+00	3.06E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	9.11E-01	3.65E-01	9.50E-02
381241	6/16/2015 - 6/23/2015	I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<3.24E-02	0.00E+00	3.24E-02
		Be-7	<2.40E-01	0.00E+00	2.40E-01
		K-40	1.38E+00	4.94E-01	3.66E-01
381593	6/23/2015 - 6/30/2015	I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<7.98E-01	0.00E+00	7.98E-01
382159	6/30/2015 - 7/7/2015	I-131	<4.06E-02	0.00E+00	4.06E-02
		Cs-134	<3.08E-02	0.00E+00	3.08E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	1.49E+00	4.97E-01	3.36E-01
382585	7/7/2015 - 7/14/2015	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<3.46E-02	0.00E+00	3.46E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	<1.06E+00	0.00E+00	1.06E+00
383515	7/14/2015 - 7/21/2015	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	1.41E+00	4.61E-01	9.55E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384087	7/21/2015 - 7/28/2015	I-131	<1.35E-02	0.00E+00	1.35E-02
		Cs-134	<8.92E-03	0.00E+00	8.92E-03
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.54E-01	2.48E-01	2.47E-01
384637	7/28/2015 - 8/4/2015	I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	3.10E-02	6.25E-02	1.11E-01
		K-40	6.96E-01	3.02E-01	3.38E-01
385405	8/4/2015 - 8/11/2015	I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	1.13E+00	4.12E-01	9.60E-02
385924	8/11/2015 - 8/18/2015	I-131	<1.43E-02	0.00E+00	1.43E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	6.95E-01	2.47E-01	5.54E-02
386819	8/18/2015 - 8/25/2015	I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<2.65E-02	0.00E+00	2.65E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	1.05E+00	4.40E-01	4.16E-01
387411	8/25/2015 - 9/1/2015	I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<7.37E-02	0.00E+00	7.37E-02
		K-40	8.44E-01	2.77E-01	5.72E-02
388739	9/1/2015 - 9/8/2015	I-131	<3.65E-02	0.00E+00	3.65E-02
		Cs-134	<2.91E-02	0.00E+00	2.91E-02
		Cs-137	<3.59E-02	0.00E+00	3.59E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	1.18E+00	4.51E-01	3.73E-01
389404	9/8/2015 - 9/15/2015	I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<7.15E-02	0.00E+00	7.15E-02
		K-40	7.84E-01	3.05E-01	3.12E-01
390005	9/15/2015 - 9/22/2015	I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	1.03E+00	3.92E-01	9.61E-02
390617	9/22/2015 - 9/29/2015	I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390617	9/22/2015 - 9/29/2015	Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	1.57E+00	5.25E-01	4.00E-01
391926	9/29/2015 - 10/6/2015	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<3.49E-02	0.00E+00	3.49E-02
		Cs-137	<3.32E-02	0.00E+00	3.32E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	1.11E+00	4.42E-01	3.72E-01
392226	10/6/2015 - 10/13/2015	I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<3.77E-02	0.00E+00	3.77E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	1.44E+00	4.99E-01	3.61E-01
393425	10/13/2015 - 10/20/2015	I-131	<1.70E-02	0.00E+00	1.70E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	<1.01E+00	0.00E+00	1.01E+00
393831	10/20/2015 - 10/27/2015	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	9.35E-01	2.94E-01	5.76E-02
394831	10/27/2015 - 11/3/2015	I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
		K-40	1.02E+00	4.54E-01	4.79E-01
395299	11/3/2015 - 11/10/2015	I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	<6.17E-01	0.00E+00	6.17E-01
395624	11/10/2015 - 11/17/2015	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<3.73E-02	0.00E+00	3.73E-02
		Be-7	<2.55E-01	0.00E+00	2.55E-01
		K-40	1.23E+00	4.33E-01	9.79E-02
396125	11/17/2015 - 11/24/2015	I-131	<5.57E-02	0.00E+00	5.57E-02
		Cs-134	<2.75E-02	0.00E+00	2.75E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
		K-40	1.29E+00	4.16E-01	8.51E-02
396633	11/24/2015 - 12/1/2015	I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 205 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396633	11/24/2015 - 12/1/2015	K-40	1.24E+00	4.63E-01	3.54E-01
397170	12/1/2015 - 12/8/2015	I-131	<4.66E-02	0.00E+00	4.66E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<3.65E-02	0.00E+00	3.65E-02
		Be-7	<2.65E-01	0.00E+00	2.65E-01
		K-40	1.02E+00	4.68E-01	5.09E-01
397889	12/8/2015 - 12/15/2015	I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	<1.02E+00	0.00E+00	1.02E+00
398286	12/15/2015 - 12/22/2015	I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	1.01E+00	3.63E-01	3.45E-01
398664	12/22/2015 - 12/29/2015	I-131	<4.33E-02	0.00E+00	4.33E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<3.48E-02	0.00E+00	3.48E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	1.07E+00	4.38E-01	3.89E-01

**Sample Point 206 [ CONTROL - NW @ 11.3 miles ]**

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
365055	12/30/2014 - 1/6/2015	I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<3.42E-02	0.00E+00	3.42E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	1.21E+00	4.81E-01	4.40E-01
365297	1/6/2015 - 1/13/2015	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	1.48E+00	4.85E-01	1.01E-01
366653	1/13/2015 - 1/20/2015	I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<4.57E-02	0.00E+00	4.57E-02
		Be-7	<3.20E-01	0.00E+00	3.20E-01
		K-40	1.63E+00	6.20E-01	1.52E-01
367059	1/20/2015 - 1/27/2015	I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<8.71E-03	0.00E+00	8.71E-03
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	1.10E+00	3.73E-01	2.86E-01
367544	1/27/2015 - 2/3/2015	I-131	<3.56E-02	0.00E+00	3.56E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<4.01E-02	0.00E+00	4.01E-02
		Be-7	<2.85E-01	0.00E+00	2.85E-01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367544	1/27/2015 - 2/3/2015	K-40	1.23E+00	4.39E-01	1.01E-01
368971	2/3/2015 - 2/10/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
369694	2/10/2015 - 2/17/2015	K-40	<6.41E-01	0.00E+00	6.41E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.28E-02	0.00E+00	1.28E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
370600	2/17/2015 - 2/24/2015	Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	9.04E-01	3.38E-01	3.39E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.28E-02	0.00E+00	1.28E-02
371539	2/24/2015 - 3/3/2015	Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<2.33E-02	0.00E+00	2.33E-02
		K-40	<6.26E-01	0.00E+00	6.26E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<2.19E-02	0.00E+00	2.19E-02
371911	3/3/2015 - 3/10/2015	Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<7.96E-02	0.00E+00	7.96E-02
		K-40	7.31E-01	2.62E-01	6.00E-02
		Nuclide	Activity	2 Sigma Error	LLD
372405	3/10/2015 - 3/17/2015	I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<3.10E-02	0.00E+00	3.10E-02
		Cs-137	<3.45E-02	0.00E+00	3.45E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	1.33E+00	5.38E-01	5.67E-01
373827	3/17/2015 - 3/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.45E-02	0.00E+00	3.45E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
374556	3/24/2015 - 3/31/2015	K-40	7.68E-01	3.79E-01	3.76E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.81E-02	0.00E+00	1.81E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
374933	3/31/2015 - 4/7/2015	Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	7.82E-01	3.26E-01	3.63E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<3.66E-02	0.00E+00	3.66E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
374933	3/31/2015 - 4/7/2015	Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<2.48E-01	0.00E+00	2.48E-01
		K-40	1.25E+00	4.70E-01	3.70E-01
		Nuclide	Activity	2 Sigma Error	LLD
		I-131	<1.53E-02	0.00E+00	1.53E-02
374933	3/31/2015 - 4/7/2015	Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	5.52E-01	3.02E-01	3.93E-01
		Nuclide	Activity	2 Sigma Error	LLD



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
375624	4/7/2015 - 4/14/2015	I-131	<3.65E-02	0.00E+00	3.65E-02
		Cs-134	<3.15E-02	0.00E+00	3.15E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.35E-01	0.00E+00	2.35E-01
		K-40	7.93E-01	4.35E-01	5.34E-01
376828	4/14/2015 - 4/21/2015	I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<1.05E+00	0.00E+00	1.05E+00
377490	4/21/2015 - 4/28/2015	I-131	<1.54E-02	0.00E+00	1.54E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.50E-01	2.85E-01	3.51E-01
378054	4/28/2015 - 5/5/2015	I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<3.05E-02	0.00E+00	3.05E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	9.46E-01	5.12E-01	6.64E-01
378454	5/5/2015 - 5/12/2015	I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<3.35E-02	0.00E+00	3.35E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	1.29E+00	4.82E-01	4.04E-01
378950	5/12/2015 - 5/19/2015	I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<8.47E-01	0.00E+00	8.47E-01
379456	5/19/2015 - 5/26/2015	I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
		K-40	1.25E+00	5.10E-01	5.34E-01
380180	5/26/2015 - 6/2/2015	I-131	<3.47E-02	0.00E+00	3.47E-02
		Cs-134	<2.53E-02	0.00E+00	2.53E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	1.44E+00	4.96E-01	3.63E-01
380468	6/2/2015 - 6/9/2015	I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	1.25E+00	4.36E-01	9.71E-02
380800	6/9/2015 - 6/16/2015	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380800	6/9/2015 - 6/16/2015	Cs-137	<3.51E-02	0.00E+00	3.51E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	1.06E+00	5.15E-01	6.33E-01
381242	6/16/2015 - 6/23/2015	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<3.50E-02	0.00E+00	3.50E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	1.25E+00	4.65E-01	3.64E-01
381594	6/23/2015 - 6/30/2015	I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<4.16E-02	0.00E+00	4.16E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	<8.94E-01	0.00E+00	8.94E-01
382160	6/30/2015 - 7/7/2015	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<4.30E-02	0.00E+00	4.30E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	9.52E-01	4.66E-01	5.49E-01
382586	7/7/2015 - 7/14/2015	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	1.14E+00	4.16E-01	9.69E-02
383516	7/14/2015 - 7/21/2015	I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	1.53E+00	4.84E-01	9.66E-02
384088	7/21/2015 - 7/28/2015	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	7.25E-01	2.68E-01	2.02E-01
384638	7/28/2015 - 8/4/2015	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.12E-02	0.00E+00	1.12E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	7.00E-01	2.48E-01	5.58E-02
385406	8/4/2015 - 8/11/2015	I-131	<3.98E-02	0.00E+00	3.98E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<9.95E-01	0.00E+00	9.95E-01
385925	8/11/2015 - 8/18/2015	I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<2.99E-02	0.00E+00	2.99E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
385925	8/11/2015 - 8/18/2015	K-40	<8.62E-01	0.00E+00	8.62E-01
386820	8/18/2015 - 8/25/2015	I-131	<3.75E-02	0.00E+00	3.75E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	1.37E+00	4.90E-01	3.88E-01
387412	8/25/2015 - 9/1/2015	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<3.00E-02	0.00E+00	3.00E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<2.64E-01	0.00E+00	2.64E-01
		K-40	8.74E-01	4.30E-01	4.80E-01
388740	9/1/2015 - 9/8/2015	I-131	<3.66E-02	0.00E+00	3.66E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.57E-01	0.00E+00	2.57E-01
		K-40	1.26E+00	5.07E-01	5.17E-01
389405	9/8/2015 - 9/15/2015	I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<9.37E-02	0.00E+00	9.37E-02
		K-40	7.49E-01	2.69E-01	6.15E-02
390006	9/15/2015 - 9/22/2015	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<2.33E-01	0.00E+00	2.33E-01
		K-40	<9.39E-01	0.00E+00	9.39E-01
390618	9/22/2015 - 9/29/2015	I-131	<3.93E-02	0.00E+00	3.93E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	1.20E+00	4.88E-01	4.84E-01
391927	9/29/2015 - 10/6/2015	I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<3.72E-02	0.00E+00	3.72E-02
		Be-7	<4.00E-02	0.00E+00	4.00E-02
		K-40	1.23E+00	4.33E-01	9.77E-02
392227	10/6/2015 - 10/13/2015	I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<2.74E-02	0.00E+00	2.74E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	8.64E-01	4.39E-01	5.08E-01
393426	10/13/2015 - 10/20/2015	I-131	<4.33E-02	0.00E+00	4.33E-02
		Cs-134	<2.90E-02	0.00E+00	2.90E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	1.29E+00	4.70E-01	3.41E-01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
393832	10/20/2015 - 10/27/2015	I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	5.69E-01	2.57E-01	2.61E-01
394832	10/27/2015 - 11/3/2015	I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<2.47E-01	0.00E+00	2.47E-01
		K-40	1.08E+00	4.45E-01	4.04E-01
395300	11/3/2015 - 11/10/2015	I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	6.74E-01	2.73E-01	2.19E-01
395625	11/10/2015 - 11/17/2015	I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.60E-01	0.00E+00	2.60E-01
		K-40	1.31E+00	5.03E-01	4.59E-01
396126	11/17/2015 - 11/24/2015	I-131	<5.48E-02	0.00E+00	5.48E-02
		Cs-134	<3.36E-02	0.00E+00	3.36E-02
		Cs-137	<3.24E-02	0.00E+00	3.24E-02
		Be-7	<2.16E-01	0.00E+00	2.16E-01
		K-40	1.38E+00	4.31E-01	8.49E-02
396634	11/24/2015 - 12/1/2015	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<3.62E-02	0.00E+00	3.62E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	1.10E+00	4.86E-01	5.21E-01
397171	12/1/2015 - 12/8/2015	I-131	<3.91E-02	0.00E+00	3.91E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<2.40E-01	0.00E+00	2.40E-01
		K-40	1.50E+00	5.25E-01	4.21E-01
397890	12/8/2015 - 12/15/2015	I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	1.35E+00	4.59E-01	9.90E-02
398287	12/15/2015 - 12/22/2015	I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	9.59E-01	3.27E-01	2.26E-01
398665	12/22/2015 - 12/29/2015	I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 206 [ CONTROL - NW @ 11.3 miles ]

Sample ID:	398665	Sample Dates:	12/22/2015 - 12/29/2015	Nuclide	Activity	2 Sigma Error	LLD
				Cs-137	<2.93E-02	0.00E+00	2.93E-02
				Be-7	<1.78E-01	0.00E+00	1.78E-01
				K-40	1.11E+00	4.77E-01	4.94E-01

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

Sample Point 700 [ INDICATOR - SSW @ 5.5 miles ]

Sample ID:	380762	Sample Dates:	5/30/2015 - 5/30/2015	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<1.09E+01	0.00E+00	1.09E+01
					Co-58	<8.90E+00	0.00E+00	8.90E+00
					Fe-59	<3.14E+01	0.00E+00	3.14E+01
					Co-60	<1.42E+01	0.00E+00	1.42E+01
					Zn-65	<2.33E+01	0.00E+00	2.33E+01
					Nb-95	<1.48E+01	0.00E+00	1.48E+01
					I-131	<2.06E+01	0.00E+00	2.06E+01
					Cs-134	<1.35E+01	0.00E+00	1.35E+01
					Cs-137	<8.83E+00	0.00E+00	8.83E+00
					Be-7	<9.50E+01	0.00E+00	9.50E+01
					K-40	2.29E+03	3.67E+02	2.93E+01
					Ag-110M	<9.48E+00	0.00E+00	9.48E+00
					Sb-122	<2.10E+02	0.00E+00	2.10E+02
					Sb-125	<2.78E+01	0.00E+00	2.78E+01

Sample ID:	396001	Sample Dates:	10/30/2015 - 10/30/2015	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<1.34E+01	0.00E+00	1.34E+01
					Co-58	<1.97E+01	0.00E+00	1.97E+01
					Fe-59	<4.52E+01	0.00E+00	4.52E+01
					Co-60	<1.26E+01	0.00E+00	1.26E+01
					Zn-65	<3.37E+01	0.00E+00	3.37E+01
					Nb-95	<2.09E+01	0.00E+00	2.09E+01
					I-131	<6.80E+01	0.00E+00	6.80E+01
					Cs-134	<1.93E+01	0.00E+00	1.93E+01
					Cs-137	<1.96E+01	0.00E+00	1.96E+01
					Be-7	<1.14E+02	0.00E+00	1.14E+02
					K-40	3.23E+03	5.37E+02	4.60E+01
					Ag-110M	<1.43E+01	0.00E+00	1.43E+01
					Sb-122	<1.94E+03	0.00E+00	1.94E+03
					Sb-125	<4.48E+01	0.00E+00	4.48E+01

Sample Point 701 [ INDICATOR - SSW @ 5.5 miles ]

Sample ID:	380763	Sample Dates:	5/30/2015 - 5/30/2015	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<2.07E+01	0.00E+00	2.07E+01
					Co-58	<2.22E+01	0.00E+00	2.22E+01
					Fe-59	<4.94E+01	0.00E+00	4.94E+01
					Co-60	<1.52E+01	0.00E+00	1.52E+01
					Zn-65	<5.22E+01	0.00E+00	5.22E+01
					Nb-95	<2.95E+01	0.00E+00	2.95E+01
					I-131	<4.22E+01	0.00E+00	4.22E+01
					Cs-134	<1.51E+01	0.00E+00	1.51E+01
					Cs-137	<1.51E+01	0.00E+00	1.51E+01
					Be-7	<1.58E+02	0.00E+00	1.58E+02
					K-40	3.49E+03	6.05E+02	5.57E+01
					Ag-110M	<1.81E+01	0.00E+00	1.81E+01
					Sb-122	<5.11E+02	0.00E+00	5.11E+02
					Sb-125	<4.93E+01	0.00E+00	4.93E+01

Sample ID:	396002	Sample Dates:	10/30/2015 - 10/30/2015	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<2.56E+01	0.00E+00	2.56E+01
					Co-58	<2.18E+01	0.00E+00	2.18E+01
					Fe-59	<4.82E+01	0.00E+00	4.82E+01
					Co-60	<2.39E+01	0.00E+00	2.39E+01
					Zn-65	<5.73E+01	0.00E+00	5.73E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 701 [ INDICATOR - SSW @ 5.5 miles ]

Sample ID:	396002	Sample Dates:	10/30/2015 - 10/30/2015	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
					Nb-95	<2.72E+01	0.00E+00	2.72E+01
					I-131	<7.35E+01	0.00E+00	7.35E+01
					Cs-134	<2.67E+01	0.00E+00	2.67E+01
					Cs-137	<2.55E+01	0.00E+00	2.55E+01
					Be-7	<1.74E+02	0.00E+00	1.74E+02
					K-40	4.21E+03	7.16E+02	3.48E+02
					Ag-110M	<1.32E+01	0.00E+00	1.32E+01
					Sb-122	<2.25E+03	0.00E+00	2.25E+03
					Sb-125	<3.87E+01	0.00E+00	3.87E+01

Sample Point 702 [ INDICATOR - SSW @ 5.5 miles ]

Sample ID:	380764	Sample Dates:	5/30/2015 - 5/30/2015	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<1.95E+01	0.00E+00	1.95E+01
					Co-58	<1.58E+01	0.00E+00	1.58E+01
					Fe-59	<4.17E+01	0.00E+00	4.17E+01
					Co-60	<2.10E+01	0.00E+00	2.10E+01
					Zn-65	<2.30E+01	0.00E+00	2.30E+01
					Nb-95	<2.46E+01	0.00E+00	2.46E+01
					I-131	<3.56E+01	0.00E+00	3.56E+01
					Cs-134	<1.46E+01	0.00E+00	1.46E+01
					Cs-137	<1.85E+01	0.00E+00	1.85E+01
					Be-7	<1.43E+02	0.00E+00	1.43E+02
					K-40	1.65E+03	3.90E+02	2.61E+02
					Ag-110M	<1.50E+01	0.00E+00	1.50E+01
					Sb-122	<2.34E+02	0.00E+00	2.34E+02
					Sb-125	<3.60E+01	0.00E+00	3.60E+01

Sample ID:	396003	Sample Dates:	10/30/2015 - 10/30/2015	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<1.71E+01	0.00E+00	1.71E+01
					Co-58	<1.47E+01	0.00E+00	1.47E+01
					Fe-59	<3.63E+01	0.00E+00	3.63E+01
					Co-60	<1.80E+01	0.00E+00	1.80E+01
					Zn-65	<3.30E+01	0.00E+00	3.30E+01
					Nb-95	<1.88E+01	0.00E+00	1.88E+01
					I-131	<4.85E+01	0.00E+00	4.85E+01
					Cs-134	<2.52E+01	0.00E+00	2.52E+01
					Cs-137	<1.07E+01	0.00E+00	1.07E+01
					Be-7	<1.22E+02	0.00E+00	1.22E+02
					K-40	3.52E+03	5.66E+02	2.01E+02
					Ag-110M	<1.51E+01	0.00E+00	1.51E+01
					Sb-122	<1.71E+03	0.00E+00	1.71E+03
					Sb-125	<3.18E+01	0.00E+00	3.18E+01

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

Sample ID:	380765	Sample Dates:	5/30/2015 - 5/30/2015	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
					Mn-54	<1.82E+01	0.00E+00	1.82E+01
					Co-58	<1.74E+01	0.00E+00	1.74E+01
					Fe-59	<4.65E+01	0.00E+00	4.65E+01
					Co-60	<1.72E+01	0.00E+00	1.72E+01
					Zn-65	<4.06E+01	0.00E+00	4.06E+01
					Nb-95	<1.59E+01	0.00E+00	1.59E+01
					I-131	<3.62E+01	0.00E+00	3.62E+01
					Cs-134	<2.12E+01	0.00E+00	2.12E+01
					Cs-137	<1.44E+01	0.00E+00	1.44E+01
					Be-7	<1.43E+02	0.00E+00	1.43E+02
					K-40	2.89E+03	4.94E+02	1.76E+02
					Ag-110M	<1.08E+01	0.00E+00	1.08E+01
					Sb-122	<4.36E+02	0.00E+00	4.36E+02
					Sb-125	<4.35E+01	0.00E+00	4.35E+01





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
394643	10/17/2015 - 10/17/2015		Mn-54	<1.88E+01	0.00E+00	1.88E+01
			Co-58	<1.61E+01	0.00E+00	1.61E+01
			Fe-59	<3.55E+01	0.00E+00	3.55E+01
			Co-60	<2.00E+01	0.00E+00	2.00E+01
			Zn-65	<3.84E+01	0.00E+00	3.84E+01
			Nb-95	<1.81E+01	0.00E+00	1.81E+01
			I-131	<2.32E+01	0.00E+00	2.32E+01
			Cs-134	<1.58E+01	0.00E+00	1.58E+01
			Cs-137	<1.56E+01	0.00E+00	1.56E+01
			Be-7	<9.07E+01	0.00E+00	9.07E+01
			K-40	2.42E+03	4.52E+02	2.51E+02
			Ag-110M	<1.02E+01	0.00E+00	1.02E+01
			Sb-122	<2.26E+02	0.00E+00	2.26E+02
			Sb-125	<3.46E+01	0.00E+00	3.46E+01

Sample ID:	Sample Dates:	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
396004	10/31/2015 - 10/31/2015		Mn-54	<1.29E+01	0.00E+00	1.29E+01
			Co-58	<1.44E+01	0.00E+00	1.44E+01
			Fe-59	<3.18E+01	0.00E+00	3.18E+01
			Co-60	<2.11E+01	0.00E+00	2.11E+01
			Zn-65	<3.83E+01	0.00E+00	3.83E+01
			Nb-95	<1.78E+01	0.00E+00	1.78E+01
			I-131	<6.40E+01	0.00E+00	6.40E+01
			Cs-134	<1.42E+01	0.00E+00	1.42E+01
			Cs-137	<1.77E+01	0.00E+00	1.77E+01
			Be-7	<1.22E+02	0.00E+00	1.22E+02
			K-40	3.54E+03	5.40E+02	4.03E+01
			Ag-110M	<1.42E+01	0.00E+00	1.42E+01
			Sb-122	<1.08E+03	0.00E+00	1.08E+03
			Sb-125	<3.41E+01	0.00E+00	3.41E+01

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

Sample ID:	Sample Dates:	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
380766	5/30/2015 - 5/30/2015		Mn-54	<1.40E+01	0.00E+00	1.40E+01
			Co-58	<1.51E+01	0.00E+00	1.51E+01
			Fe-59	<2.78E+01	0.00E+00	2.78E+01
			Co-60	<2.13E+01	0.00E+00	2.13E+01
			Zn-65	<3.16E+01	0.00E+00	3.16E+01
			Nb-95	<9.93E+00	0.00E+00	9.93E+00
			I-131	<2.76E+01	0.00E+00	2.76E+01
			Cs-134	<9.54E+00	0.00E+00	9.54E+00
			Cs-137	<1.47E+01	0.00E+00	1.47E+01
			Be-7	<1.25E+02	0.00E+00	1.25E+02
			K-40	2.62E+03	4.84E+02	2.68E+02
			Ag-110M	<1.23E+01	0.00E+00	1.23E+01
			Sb-122	<3.20E+02	0.00E+00	3.20E+02
			Sb-125	<3.72E+01	0.00E+00	3.72E+01

Sample ID:	Sample Dates:	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
394644	10/17/2015 - 10/17/2015		Mn-54	<2.17E+01	0.00E+00	2.17E+01
			Co-58	<2.16E+01	0.00E+00	2.16E+01
			Fe-59	<3.34E+01	0.00E+00	3.34E+01
			Co-60	<2.43E+01	0.00E+00	2.43E+01
			Zn-65	<3.90E+01	0.00E+00	3.90E+01
			Nb-95	<1.18E+01	0.00E+00	1.18E+01
			I-131	<3.65E+01	0.00E+00	3.65E+01
			Cs-134	<2.27E+01	0.00E+00	2.27E+01
			Cs-137	<1.96E+01	0.00E+00	1.96E+01
			Be-7	<1.32E+02	0.00E+00	1.32E+02
			K-40	3.02E+03	5.74E+02	3.16E+02
			Ag-110M	<9.30E+00	0.00E+00	9.30E+00
			Sb-122	<2.55E+02	0.00E+00	2.55E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
394644	10/17/2015 - 10/17/2015		Sb-125	<3.81E+01	0.00E+00	3.81E+01
396005	10/31/2015 - 10/31/2015		Mn-54	<1.80E+01	0.00E+00	1.80E+01
			Co-58	<1.54E+01	0.00E+00	1.54E+01
			Fe-59	<3.78E+01	0.00E+00	3.78E+01
			Co-60	<2.13E+01	0.00E+00	2.13E+01
			Zn-65	<4.56E+01	0.00E+00	4.56E+01
			Nb-95	<2.11E+01	0.00E+00	2.11E+01
			I-131	<6.91E+01	0.00E+00	6.91E+01
			Cs-134	<1.52E+01	0.00E+00	1.52E+01
			Cs-137	<1.45E+01	0.00E+00	1.45E+01
			Be-7	<1.36E+02	0.00E+00	1.36E+02
			K-40	3.25E+03	5.66E+02	2.65E+02
			Ag-110M	<2.19E+01	0.00E+00	2.19E+01
			Sb-122	<1.47E+03	0.00E+00	1.47E+03
			Sb-125	<4.04E+01	0.00E+00	4.04E+01

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

Sample ID:	Sample Dates:	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
380767	5/30/2015 - 5/30/2015		Mn-54	<1.92E+01	0.00E+00	1.92E+01
			Co-58	<1.33E+01	0.00E+00	1.33E+01
			Fe-59	<5.01E+01	0.00E+00	5.01E+01
			Co-60	<1.54E+01	0.00E+00	1.54E+01
			Zn-65	<3.18E+01	0.00E+00	3.18E+01
			Nb-95	<2.59E+01	0.00E+00	2.59E+01
			I-131	<4.21E+01	0.00E+00	4.21E+01
			Cs-134	<1.92E+01	0.00E+00	1.92E+01
			Cs-137	<1.98E+01	0.00E+00	1.98E+01
			Be-7	<1.52E+02	0.00E+00	1.52E+02
			K-40	2.42E+03	5.40E+02	5.44E+02
			Ag-110M	<1.95E+01	0.00E+00	1.95E+01
			Sb-122	<3.60E+02	0.00E+00	3.60E+02
			Sb-125	<4.83E+01	0.00E+00	4.83E+01

Sample ID:	Sample Dates:	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
394645	10/17/2015 - 10/17/2015		Mn-54	<2.08E+01	0.00E+00	2.08E+01
			Co-58	<1.78E+01	0.00E+00	1.78E+01
			Fe-59	<2.77E+01	0.00E+00	2.77E+01
			Co-60	<2.02E+01	0.00E+00	2.02E+01
			Zn-65	<4.77E+01	0.00E+00	4.77E+01
			Nb-95	<1.74E+01	0.00E+00	1.74E+01
			I-131	<3.01E+01	0.00E+00	3.01E+01
			Cs-134	<1.43E+01	0.00E+00	1.43E+01
			Cs-137	<1.72E+01	0.00E+00	1.72E+01
			Be-7	<9.93E+01	0.00E+00	9.93E+01
			K-40	<5.77E+02	0.00E+00	5.77E+02
			Ag-110M	<1.65E+01	0.00E+00	1.65E+01
			Sb-122	<2.14E+02	0.00E+00	2.14E+02
			Sb-125	<3.58E+01	0.00E+00	3.58E+01

Sample ID:	Sample Dates:	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
396011	10/31/2015 - 10/31/2015		Mn-54	<1.39E+01	0.00E+00	1.39E+01
			Co-58	<1.66E+01	0.00E+00	1.66E+01
			Fe-59	<4.53E+01	0.00E+00	4.53E+01
			Co-60	<1.65E+01	0.00E+00	1.65E+01
			Zn-65	<3.28E+01	0.00E+00	3.28E+01
			Nb-95	<1.87E+01	0.00E+00	1.87E+01
			I-131	<4.30E+01	0.00E+00	4.30E+01
			Cs-134	<1.43E+01	0.00E+00	1.43E+01
			Cs-137	<1.22E+01	0.00E+00	1.22E+01
			Be-7	<1.23E+02	0.00E+00	1.23E+02
			K-40	3.03E+03	4.78E+02	3.72E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
396011	10/31/2015 - 10/31/2015		Ag-110M	<1.44E+01	0.00E+00	1.44E+01
			Sb-122	<9.84E+02	0.00E+00	9.84E+02
			Sb-125	<3.40E+01	0.00E+00	3.40E+01

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

Sample ID:	Sample Dates:	FREESWIM	Nuclide	Activity	2 Sigma Error	LLD
394646	9/15/2015 - 10/13/2015		Mn-54	<1.86E+01	0.00E+00	1.86E+01
			Co-58	<2.02E+01	0.00E+00	2.02E+01
			Fe-59	<4.63E+01	0.00E+00	4.63E+01
			Co-60	<2.82E+01	0.00E+00	2.82E+01
			Zn-65	<5.24E+01	0.00E+00	5.24E+01
			Nb-95	<2.83E+01	0.00E+00	2.83E+01
			I-131	<1.66E+02	0.00E+00	1.66E+02
			Cs-134	<2.20E+01	0.00E+00	2.20E+01
			Cs-137	<2.00E+01	0.00E+00	2.00E+01
			Be-7	<1.81E+02	0.00E+00	1.81E+02
			K-40	2.65E+03	5.57E+02	3.73E+02
			Ag-110M	<2.03E+01	0.00E+00	2.03E+01
			Sb-122	<3.37E+04	0.00E+00	3.37E+04
			Sb-125	<3.89E+01	0.00E+00	3.89E+01

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

Sample ID:	Sample Dates:	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	LLD
394647	9/15/2015 - 10/13/2015		Mn-54	<1.80E+01	0.00E+00	1.80E+01
			Co-58	<2.19E+01	0.00E+00	2.19E+01
			Fe-59	<6.78E+01	0.00E+00	6.78E+01
			Co-60	<2.62E+01	0.00E+00	2.62E+01
			Zn-65	<4.59E+01	0.00E+00	4.59E+01
			Nb-95	<2.93E+01	0.00E+00	2.93E+01
			I-131	<1.56E+02	0.00E+00	1.56E+02
			Cs-134	<1.29E+01	0.00E+00	1.29E+01
			Cs-137	<1.55E+01	0.00E+00	1.55E+01
			Be-7	<1.97E+02	0.00E+00	1.97E+02
			K-40	2.71E+03	5.15E+02	3.34E+02
			Ag-110M	<1.48E+01	0.00E+00	1.48E+01
			Sb-122	<2.43E+04	0.00E+00	2.43E+04
			Sb-125	<3.55E+01	0.00E+00	3.55E+01

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

Sample ID:	Sample Dates:	INVERTEBRA	Nuclide	Activity	2 Sigma Error	LLD
394648	9/15/2015 - 10/13/2015		Mn-54	<2.77E+01	0.00E+00	2.77E+01
			Co-58	<5.10E+01	0.00E+00	5.10E+01
			Fe-59	<1.16E+02	0.00E+00	1.16E+02
			Co-60	<3.06E+01	0.00E+00	3.06E+01
			Zn-65	<1.09E+02	0.00E+00	1.09E+02
			Nb-95	<7.21E+01	0.00E+00	7.21E+01
			I-131	<1.85E+02	0.00E+00	1.85E+02
			Cs-134	<3.89E+01	0.00E+00	3.89E+01
			Cs-137	<2.53E+01	0.00E+00	2.53E+01
			Be-7	<3.71E+02	0.00E+00	3.71E+02
			K-40	<8.61E+02	0.00E+00	8.61E+02
			Ag-110M	<3.13E+01	0.00E+00	3.13E+01
			Sb-122	<4.86E+04	0.00E+00	4.86E+04
			Sb-125	<9.90E+01	0.00E+00	9.90E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 404 [ INDICATOR - SW @ 0.16 miles ]

<b>Sample ID:</b> 366914	<b>Sample Dates:</b> 1/13/2015 - 1/13/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<7.74E+00	0.00E+00	7.74E+00
		Co-58	<9.88E+00	0.00E+00	9.88E+00
		Fe-59	<1.60E+01	0.00E+00	1.60E+01
		Co-60	<9.22E+00	0.00E+00	9.23E+00
		Zn-65	<2.02E+01	0.00E+00	2.02E+01
		Zr-95	<1.53E+01	0.00E+00	1.53E+01
		Nb-95	<1.01E+01	0.00E+00	1.01E+01
		I-131	<1.27E+01	0.00E+00	1.27E+01
		Cs-134	<9.44E+00	0.00E+00	9.44E+00
		Cs-137	<8.74E+00	0.00E+00	8.74E+00
		La-140	<2.18E+01	0.00E+00	2.18E+01
		Ba-140	<3.16E+01	0.00E+00	3.16E+01
		Total-Gam	0.00E+00		
		H3GW	<1.0E+02	0.00E+00	2.61E+02

<b>Sample ID:</b> 379204	<b>Sample Dates:</b> 5/12/2015 - 5/12/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		H3GW	<5.12E+01	0.00E+00	2.53E+02

<b>Sample ID:</b> 381026	<b>Sample Dates:</b> 6/9/2015 - 6/9/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<8.05E+00	0.00E+00	8.05E+00
		Co-58	<8.23E+00	0.00E+00	8.23E+00
		Fe-59	<1.71E+01	0.00E+00	1.71E+01
		Co-60	<9.01E+00	0.00E+00	9.01E+00
		Zn-65	<2.17E+01	0.00E+00	2.17E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<1.09E+01	0.00E+00	1.09E+01
		I-131	<9.24E+00	0.00E+00	9.24E+00
		Cs-134	<7.96E+00	0.00E+00	7.96E+00
		Cs-137	<9.02E+00	0.00E+00	9.03E+00
		La-140	<1.51E+01	0.00E+00	1.51E+01
		Ba-140	<3.51E+01	0.00E+00	3.51E+01
		Total-Gam	0.00E+00		
		H3GW	<1.06E+02	0.00E+00	2.47E+02

<b>Sample ID:</b> 390861	<b>Sample Dates:</b> 9/11/2015 - 9/11/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		H3GW	<4.17E+01	0.00E+00	2.48E+02

<b>Sample ID:</b> 398100	<b>Sample Dates:</b> 12/7/2015 - 12/7/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<4.68E+00	0.00E+00	4.68E+00
		Co-58	<9.98E+00	0.00E+00	9.98E+00
		Fe-59	<1.80E+01	0.00E+00	1.80E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<1.31E+01	0.00E+00	1.31E+01
		Zr-95	<1.50E+01	0.00E+00	1.50E+01
		Nb-95	<6.92E+00	0.00E+00	6.92E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<7.98E+00	0.00E+00	7.98E+00
		Cs-137	<8.44E+00	0.00E+00	8.44E+00
		La-140	<3.72E+01	0.00E+00	3.72E+01
		Ba-140	<3.52E+01	0.00E+00	3.52E+01
		Total-Gam	0.00E+00		
		H3GW	<4.2E+01	0.00E+00	2.66E+02

**Sample Point 407 [ INDICATOR - ENE @ 0.06 miles ]**

<b>Sample ID:</b> 367424	<b>Sample Dates:</b> 1/14/2015 - 1/14/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<8.19E+00	0.00E+00	8.19E+00
		Co-58	<8.90E+00	0.00E+00	8.90E+00
		Fe-59	<1.31E+01	0.00E+00	1.31E+01
		Co-60	<4.83E+00	0.00E+00	4.83E+00
		Zn-65	<2.06E+01	0.00E+00	2.06E+01
		Zr-95	<1.34E+01	0.00E+00	1.34E+01
		Nb-95	<7.64E+00	0.00E+00	7.64E+00
		I-131	<1.72E+01	0.00E+00	1.72E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 407 [ INDICATOR - ENE @ 0.06 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367424	1/14/2015 - 1/14/2015	Cs-134	<8.22E+00	0.00E+00	8.23E+00
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<3.15E+02	0.00E+00	3.15E+02
		Ba-140	<4.27E+01	0.00E+00	4.27E+01
		Total-Gam	0.00E+00		
		H3GW	2.89E+02	1.52E+02	2.49E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
377271	4/15/2015 - 4/15/2015	Mn-54	<9.60E+00	0.00E+00	9.60E+00
		Co-58	<6.90E+00	0.00E+00	6.90E+00
		Fe-59	<1.73E+01	0.00E+00	1.73E+01
		Co-60	<7.53E+00	0.00E+00	7.53E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<1.30E+01	0.00E+00	1.30E+01
		Nb-95	<9.09E+00	0.00E+00	9.09E+00
		I-131	<7.88E+00	0.00E+00	7.89E+00
		Cs-134	<6.92E+00	0.00E+00	6.92E+00
		Cs-137	<7.82E+00	0.00E+00	7.82E+00
		La-140	<1.78E+01	0.00E+00	1.78E+01
		Ba-140	<2.72E+01	0.00E+00	2.72E+01
		Total-Gam	0.00E+00		
		H3GW	3.81E+02	1.54E+02	2.50E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381726	6/11/2015 - 6/11/2015	Mn-54	<9.52E+00	0.00E+00	9.52E+00
		Co-58	<8.81E+00	0.00E+00	8.81E+00
		Fe-59	<1.50E+01	0.00E+00	1.50E+01
		Co-60	<7.56E+00	0.00E+00	7.56E+00
		Zn-65	<1.70E+01	0.00E+00	1.70E+01
		Zr-95	<1.31E+01	0.00E+00	1.31E+01
		Nb-95	<1.18E+01	0.00E+00	1.18E+01
		I-131	<2.06E+01	0.00E+00	2.06E+01
		Cs-134	<7.14E+00	0.00E+00	7.14E+00
		Cs-137	<9.84E+00	0.00E+00	9.84E+00
		La-140	<8.32E+02	0.00E+00	8.32E+02
		Ba-140	<5.17E+01	0.00E+00	5.17E+01
		Total-Gam	0.00E+00		
		H3GW	<-3.0E+01	0.00E+00	2.43E+02
H3GW	<-3.0E+01	0.00E+00	2.43E+02		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
391058	9/16/2015 - 9/16/2015	H3GW	4.29E+02	1.65E+02	2.67E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399019	12/14/2015 - 12/14/2015	Mn-54	<7.95E+00	0.00E+00	7.95E+00
		Co-58	<8.28E+00	0.00E+00	8.28E+00
		Fe-59	<1.82E+01	0.00E+00	1.82E+01
		Co-60	<6.84E+00	0.00E+00	6.84E+00
		Zn-65	<1.60E+01	0.00E+00	1.60E+01
		Zr-95	<1.35E+01	0.00E+00	1.35E+01
		Nb-95	<1.15E+01	0.00E+00	1.15E+01
		I-131	<2.65E+01	0.00E+00	2.65E+01
		Cs-134	<7.85E+00	0.00E+00	7.85E+00
		Cs-137	<9.03E+00	0.00E+00	9.03E+00
		La-140	<3.12E+03	0.00E+00	3.12E+03
		Ba-140	<5.73E+01	0.00E+00	5.73E+01
		Total-Gam	0.00E+00		
		H3GW	<2.28E+02	0.00E+00	2.55E+02

Sample Point 409 [ INDICATOR - NE @ 0.65 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373964	3/9/2015 - 3/9/2015	H3GW	<1.45E+02	0.00E+00	2.41E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 409 [ INDICATOR - NE @ 0.65 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381027	6/9/2015 - 6/9/2015	Mn-54	<9.60E+00	0.00E+00	9.60E+00
		Co-58	<5.65E+00	0.00E+00	5.65E+00
		Fe-59	<1.89E+01	0.00E+00	1.89E+01
		Co-60	<6.87E+00	0.00E+00	6.87E+00
		Zn-65	<1.65E+01	0.00E+00	1.65E+01
		Zr-95	<1.41E+01	0.00E+00	1.41E+01
		Nb-95	<7.34E+00	0.00E+00	7.34E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<7.31E+00	0.00E+00	7.31E+00
		Cs-137	<7.48E+00	0.00E+00	7.48E+00
		La-140	<2.04E+01	0.00E+00	2.04E+01
		Ba-140	<2.66E+01	0.00E+00	2.66E+01
		Total-Gam	0.00E+00		
		H3GW	<-3.2E+01	0.00E+00	2.49E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389733	9/8/2015 - 9/8/2015	H3GW	<-1.1E+02	0.00E+00	2.56E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398093	12/7/2015 - 12/7/2015	Mn-54	<9.02E+00	0.00E+00	9.02E+00
		Co-58	<6.92E+00	0.00E+00	6.92E+00
		Fe-59	<1.74E+01	0.00E+00	1.74E+01
		Co-60	<9.01E+00	0.00E+00	9.01E+00
		Zn-65	<1.84E+01	0.00E+00	1.84E+01
		Zr-95	<1.18E+01	0.00E+00	1.18E+01
		Nb-95	<9.13E+00	0.00E+00	9.13E+00
		I-131	<9.91E+00	0.00E+00	9.91E+00
		Cs-134	<8.76E+00	0.00E+00	8.76E+00
		Cs-137	<9.84E+00	0.00E+00	9.84E+00
		La-140	<1.84E+01	0.00E+00	1.84E+01
		Ba-140	<3.37E+01	0.00E+00	3.37E+01
		Total-Gam	0.00E+00		
		H3GW	<-1.3E+02	0.00E+00	2.65E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373965	3/9/2015 - 3/9/2015	H3GW	<-4.6E+01	0.00E+00	2.50E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381028	6/9/2015 - 6/9/2015	Mn-54	<9.60E+00	0.00E+00	9.60E+00
		Co-58	<6.92E+00	0.00E+00	6.92E+00
		Fe-59	<1.36E+01	0.00E+00	1.36E+01
		Co-60	<8.70E+00	0.00E+00	8.69E+00
		Zn-65	<2.10E+01	0.00E+00	2.10E+01
		Zr-95	<1.30E+01	0.00E+00	1.30E+01
		Nb-95	<1.06E+01	0.00E+00	1.06E+01
		I-131	<9.72E+00	0.00E+00	9.72E+00
		Cs-134	<6.92E+00	0.00E+00	6.92E+00
		Cs-137	<8.44E+00	0.00E+00	8.44E+00
		La-140	<1.79E+01	0.00E+00	1.79E+01
		Ba-140	<2.93E+01	0.00E+00	2.93E+01
		Total-Gam	0.00E+00		
		H3GW	<-1.4E+02	0.00E+00	2.48E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389734	9/8/2015 - 9/8/2015	H3GW	<-8.8E+01	0.00E+00	2.54E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398094	12/7/2015 - 12/7/2015	Mn-54	<6.99E+00	0.00E+00	6.99E+00
		Co-58	<8.63E+00	0.00E+00	8.63E+00
		Fe-59	<1.66E+01	0.00E+00	1.66E+01
		Co-60	<5.90E+00	0.00E+00	5.90E+00
		Zn-65	<2.02E+01	0.00E+00	2.02E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 410 [ INDICATOR - NE @ 0.65 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398094	12/7/2015 - 12/7/2015	Zr-95	<1.30E+01	0.00E+00	1.30E+01
		Nb-95	<8.87E+00	0.00E+00	8.87E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<7.75E+00	0.00E+00	7.75E+00
		Cs-137	<9.03E+00	0.00E+00	9.03E+00
		La-140	<2.11E+01	0.00E+00	2.11E+01
		Ba-140	<3.84E+01	0.00E+00	3.84E+01
		Total-Gam	0.00E+00		
		H3GW	<-3.8E+00	0.00E+00	2.66E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373966	3/9/2015 - 3/9/2015	H3GW	2.57E+02	1.46E+02	2.40E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381030	6/9/2015 - 6/9/2015	Mn-54	<1.08E+01	0.00E+00	1.08E+01
		Co-58	<9.46E+00	0.00E+00	9.46E+00
		Fe-59	<1.63E+01	0.00E+00	1.63E+01
		Co-60	<8.36E+00	0.00E+00	8.36E+00
		Zn-65	<1.78E+01	0.00E+00	1.78E+01
		Zr-95	<1.45E+01	0.00E+00	1.45E+01
		Nb-95	<9.96E+00	0.00E+00	9.96E+00
		I-131	<1.54E+01	0.00E+00	1.54E+01
		Cs-134	<6.09E+00	0.00E+00	6.09E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<1.06E+02	0.00E+00	1.06E+02
		Ba-140	<4.34E+01	0.00E+00	4.34E+01
		Total-Gam	0.00E+00		
		H3GW	<1.60E+02	0.00E+00	2.53E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389736	9/8/2015 - 9/8/2015	H3GW	<1.39E+02	0.00E+00	2.55E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398396	12/3/2015 - 12/3/2015	Mn-54	<7.14E+00	0.00E+00	7.14E+00
		Co-58	<7.61E+00	0.00E+00	7.61E+00
		Fe-59	<1.73E+01	0.00E+00	1.73E+01
		Co-60	<8.37E+00	0.00E+00	8.37E+00
		Zn-65	<2.24E+01	0.00E+00	2.24E+01
		Zr-95	<1.38E+01	0.00E+00	1.38E+01
		Nb-95	<1.04E+01	0.00E+00	1.04E+01
		I-131	<2.16E+01	0.00E+00	2.16E+01
		Cs-134	<9.40E+00	0.00E+00	9.40E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<8.84E+02	0.00E+00	8.84E+02
		Ba-140	<5.33E+01	0.00E+00	5.33E+01
		Total-Gam	0.00E+00		
		H3GW	<1.20E+02	0.00E+00	2.63E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366915	1/13/2015 - 1/13/2015	Mn-54	<8.08E+00	0.00E+00	8.08E+00
		Co-58	<8.40E+00	0.00E+00	8.40E+00
		Fe-59	<1.99E+01	0.00E+00	1.99E+01
		Co-60	<7.62E+00	0.00E+00	7.62E+00
		Zn-65	<1.85E+01	0.00E+00	1.85E+01
		Zr-95	<1.37E+01	0.00E+00	1.37E+01
		Nb-95	<9.04E+00	0.00E+00	9.04E+00
		I-131	<9.61E+00	0.00E+00	9.61E+00
		Cs-134	<7.54E+00	0.00E+00	7.54E+00
		Cs-137	<8.74E+00	0.00E+00	8.74E+00
		La-140	<1.98E+01	0.00E+00	1.98E+01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366915	1/13/2015 - 1/13/2015	Ba-140	<3.08E+01	0.00E+00	3.08E+01
		Total-Gam	0.00E+00		
		H3GW	<-1.5E+02	0.00E+00	2.60E+02
379205	5/12/2015 - 5/12/2015	H3GW	<9.45E+01	0.00E+00	2.53E+02
381728	6/10/2015 - 6/10/2015	Mn-54	<7.56E+00	0.00E+00	7.56E+00
		Co-58	<9.34E+00	0.00E+00	9.34E+00
		Fe-59	<2.36E+01	0.00E+00	2.36E+01
		Co-60	<1.13E+01	0.00E+00	1.13E+01
		Zn-65	<1.48E+01	0.00E+00	1.48E+01
		Zr-95	<1.34E+01	0.00E+00	1.34E+01
		Nb-95	<1.19E+01	0.00E+00	1.19E+01
		I-131	<2.87E+01	0.00E+00	2.87E+01
		Cs-134	<7.62E+00	0.00E+00	7.62E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		La-140	<1.25E+03	0.00E+00	1.25E+03
		Ba-140	<6.00E+01	0.00E+00	6.00E+01
		Total-Gam	0.00E+00		
		H3GW	<6.73E+01	0.00E+00	2.44E+02
		H3GW	4.02E+02	1.51E+02	2.43E+02
390862	9/11/2015 - 9/11/2015	H3GW	<9.10E+00	0.00E+00	2.49E+02
398096	12/7/2015 - 12/7/2015	Mn-54	<5.71E+00	0.00E+00	5.71E+00
		Co-58	<9.57E+00	0.00E+00	9.57E+00
		Fe-59	<1.76E+01	0.00E+00	1.76E+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	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<9.52E+00	0.00E+00	9.52E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<8.18E+00	0.00E+00	8.18E+00
		Cs-137	<8.74E+00	0.00E+00	8.74E+00
		La-140	<2.24E+01	0.00E+00	2.24E+01
		Ba-140	<3.63E+01	0.00E+00	3.63E+01
		Total-Gam	0.00E+00		
		H3GW	<7.32E+00	0.00E+00	2.58E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366916	1/13/2015 - 1/13/2015	Mn-54	<7.10E+00	0.00E+00	7.09E+00
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<1.23E+01	0.00E+00	1.23E+01
		Co-60	<8.72E+00	0.00E+00	8.72E+00
		Zn-65	<2.14E+01	0.00E+00	2.14E+01
		Zr-95	<1.52E+01	0.00E+00	1.52E+01
		Nb-95	<1.17E+01	0.00E+00	1.17E+01
		I-131	<1.69E+01	0.00E+00	1.69E+01
		Cs-134	<6.10E+00	0.00E+00	6.10E+00
		Cs-137	<8.74E+00	0.00E+00	8.74E+00
		La-140	<3.34E+02	0.00E+00	3.34E+02
		Ba-140	<4.93E+01	0.00E+00	4.93E+01
		Total-Gam	0.00E+00		
		H3GW	<-1.0E+02	0.00E+00	2.60E+02
		379206	5/12/2015 - 5/12/2015	H3GW	<2.07E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

<b>Sample ID:</b> 381729	<b>Sample Dates:</b> 6/10/2015 - 6/10/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<9.56E+00	0.00E+00	9.56E+00
		Co-58	<8.20E+00	0.00E+00	8.20E+00
		Fe-59	<2.31E+01	0.00E+00	2.31E+01
		Co-60	<9.68E+00	0.00E+00	9.68E+00
		Zn-65	<1.60E+01	0.00E+00	1.60E+01
		Zr-95	<1.48E+01	0.00E+00	1.48E+01
		Nb-95	<1.01E+01	0.00E+00	1.01E+01
		I-131	<2.79E+01	0.00E+00	2.79E+01
		Cs-134	<7.48E+00	0.00E+00	7.48E+00
		Cs-137	<9.31E+00	0.00E+00	9.31E+00
		La-140	<1.86E+03	0.00E+00	1.86E+03
		Ba-140	<6.59E+01	0.00E+00	6.59E+01
		Total-Gam	0.00E+00		
		H3GW	<2.84E+01	0.00E+00	2.43E+02

<b>Sample ID:</b> 390863	<b>Sample Dates:</b> 9/11/2015 - 9/11/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		H3GW	<3.07E+01	0.00E+00	2.48E+02

<b>Sample ID:</b> 398097	<b>Sample Dates:</b> 12/7/2015 - 12/7/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<8.10E+00	0.00E+00	8.10E+00
		Co-58	<7.78E+00	0.00E+00	7.78E+00
		Fe-59	<1.21E+01	0.00E+00	1.21E+01
		Co-60	<8.14E+00	0.00E+00	8.14E+00
		Zn-65	<1.55E+01	0.00E+00	1.55E+01
		Zr-95	<1.44E+01	0.00E+00	1.44E+01
		Nb-95	<9.18E+00	0.00E+00	9.18E+00
		I-131	<9.59E+00	0.00E+00	9.59E+00
		Cs-134	<8.97E+00	0.00E+00	8.97E+00
		Cs-137	<7.48E+00	0.00E+00	7.48E+00
		La-140	<3.09E+01	0.00E+00	3.09E+01
		Ba-140	<3.64E+01	0.00E+00	3.64E+01
		Total-Gam	0.00E+00		
		H3GW	<-3.7E+01	0.00E+00	2.59E+02

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

<b>Sample ID:</b> 373970	<b>Sample Dates:</b> 3/10/2015 - 3/10/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		H3GW	<6.34E+01	0.00E+00	2.43E+02

<b>Sample ID:</b> 381038	<b>Sample Dates:</b> 6/9/2015 - 6/9/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<8.51E+00	0.00E+00	8.51E+00
		Co-58	<7.74E+00	0.00E+00	7.74E+00
		Fe-59	<1.53E+01	0.00E+00	1.53E+01
		Co-60	<9.24E+00	0.00E+00	9.24E+00
		Zn-65	<2.14E+01	0.00E+00	2.14E+01
		Zr-95	<1.45E+01	0.00E+00	1.45E+01
		Nb-95	<1.00E+01	0.00E+00	1.00E+01
		I-131	<1.66E+01	0.00E+00	1.66E+01
		Cs-134	<8.32E+00	0.00E+00	8.32E+00
		Cs-137	<9.31E+00	0.00E+00	9.31E+00
		La-140	<2.01E+02	0.00E+00	2.01E+02
		Ba-140	<4.07E+01	0.00E+00	4.07E+01
		Total-Gam	0.00E+00		
		H3GW	<-2.1E+02	0.00E+00	2.72E+02

<b>Sample ID:</b> 392503	<b>Sample Dates:</b> 9/24/2015 - 9/24/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		H3GW	<1.84E+00	0.00E+00	2.54E+02

<b>Sample ID:</b> 398614	<b>Sample Dates:</b> 12/9/2015 - 12/9/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<8.85E+00	0.00E+00	8.85E+00
		Co-58	<8.55E+00	0.00E+00	8.55E+00
		Fe-59	<1.51E+01	0.00E+00	1.51E+01
		Co-60	<4.83E+00	0.00E+00	4.83E+00
		Zn-65	<1.88E+01	0.00E+00	1.88E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398614	12/9/2015 - 12/9/2015	Zr-95	<1.52E+01	0.00E+00	1.52E+01
		Nb-95	<7.62E+00	0.00E+00	7.62E+00
		I-131	<1.60E+01	0.00E+00	1.60E+01
		Cs-134	<7.36E+00	0.00E+00	7.36E+00
		Cs-137	<8.14E+00	0.00E+00	8.14E+00
		La-140	<2.57E+02	0.00E+00	2.57E+02
		Ba-140	<4.01E+01	0.00E+00	4.01E+01
		Total-Gam	0.00E+00		
		H3GW	<5.53E+01	0.00E+00	2.77E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373967	3/9/2015 - 3/9/2015	H3GW	<1.59E+02	0.00E+00	2.30E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381039	6/9/2015 - 6/9/2015	Mn-54	<8.85E+00	0.00E+00	8.85E+00
		Co-58	<9.88E+00	0.00E+00	9.88E+00
		Fe-59	<2.03E+01	0.00E+00	2.03E+01
		Co-60	<4.83E+00	0.00E+00	4.83E+00
		Zn-65	<1.33E+01	0.00E+00	1.33E+01
		Zr-95	<1.64E+01	0.00E+00	1.64E+01
		Nb-95	<1.25E+01	0.00E+00	1.25E+01
		I-131	<1.82E+01	0.00E+00	1.82E+01
		Cs-134	<1.02E+01	0.00E+00	1.02E+01
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<2.67E+02	0.00E+00	2.67E+02
		Ba-140	<4.15E+01	0.00E+00	4.15E+01
		Total-Gam	0.00E+00		
		H3GW	<-8.5E+01	0.00E+00	2.50E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389738	9/8/2015 - 9/8/2015	H3GW	<-6.5E+01	0.00E+00	2.55E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398615	12/8/2015 - 12/8/2015	Mn-54	<8.43E+00	0.00E+00	8.43E+00
		Co-58	<9.70E+00	0.00E+00	9.70E+00
		Fe-59	<2.14E+01	0.00E+00	2.14E+01
		Co-60	<8.19E+00	0.00E+00	8.19E+00
		Zn-65	<1.85E+01	0.00E+00	1.85E+01
		Zr-95	<1.61E+01	0.00E+00	1.61E+01
		Nb-95	<1.14E+01	0.00E+00	1.14E+01
		I-131	<4.80E+01	0.00E+00	4.80E+01
		Cs-134	<6.71E+00	0.00E+00	6.71E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		La-140	<3.42E+04	0.00E+00	3.42E+04
		Ba-140	<9.25E+01	0.00E+00	9.25E+01
		Total-Gam	0.00E+00		
		H3GW	<-1.3E+01	0.00E+00	2.71E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373968	3/9/2015 - 3/9/2015	Mn-54	<7.48E+00	0.00E+00	7.48E+00
		Co-58	<8.20E+00	0.00E+00	8.21E+00
		Fe-59	<2.03E+01	0.00E+00	2.03E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<1.57E+01	0.00E+00	1.57E+01
		Zr-95	<1.34E+01	0.00E+00	1.34E+01
		Nb-95	<8.85E+00	0.00E+00	8.85E+00
		I-131	<1.69E+01	0.00E+00	1.69E+01
		Cs-134	<7.80E+00	0.00E+00	7.80E+00
		Cs-137	<1.11E+01	0.00E+00	1.11E+01
		La-140	<3.62E+02	0.00E+00	3.62E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
373968	3/9/2015 - 3/9/2015	Ba-140	<3.94E+01	0.00E+00	3.94E+01
		Total-Gam	0.00E+00		
		H3GW	<-9.1E+01	0.00E+00	2.51E+02
381727	6/11/2015 - 6/11/2015	Mn-54	<7.15E+00	0.00E+00	7.15E+00
		Co-58	<8.87E+00	0.00E+00	8.87E+00
		Fe-59	<2.15E+01	0.00E+00	2.15E+01
		Co-60	<8.16E+00	0.00E+00	8.16E+00
		Zn-65	<1.99E+01	0.00E+00	1.99E+01
		Zr-95	<1.25E+01	0.00E+00	1.25E+01
		Nb-95	<8.66E+00	0.00E+00	8.66E+00
		I-131	<2.50E+01	0.00E+00	2.50E+01
		Cs-134	<8.46E+00	0.00E+00	8.46E+00
		Cs-137	<9.03E+00	0.00E+00	9.03E+00
		La-140	<1.24E+03	0.00E+00	1.24E+03
		Ba-140	<5.07E+01	0.00E+00	5.07E+01
		Total-Gam	0.00E+00		
		H3GW	<-2.5E+01	0.00E+00	2.43E+02
391060	9/16/2015 - 9/16/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3GW	<1.61E+01	0.00E+00	2.67E+02
399020	12/14/2015 - 12/14/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<5.88E+00	0.00E+00	5.88E+00
		Co-58	<5.28E+00	0.00E+00	5.28E+00
		Fe-59	<1.95E+01	0.00E+00	1.95E+01
		Co-60	<5.35E+00	0.00E+00	5.35E+00
		Zn-65	<1.71E+01	0.00E+00	1.71E+01
		Zr-95	<1.36E+01	0.00E+00	1.36E+01
		Nb-95	<1.13E+01	0.00E+00	1.13E+01
		I-131	<3.24E+01	0.00E+00	3.24E+01
		Cs-134	<9.18E+00	0.00E+00	9.18E+00
		Cs-137	<8.14E+00	0.00E+00	8.14E+00
		La-140	<4.69E+03	0.00E+00	4.69E+03
		Ba-140	<6.48E+01	0.00E+00	6.48E+01
		Total-Gam	0.00E+00		
H3GW	<6.05E+01	0.00E+00	2.54E+02		

Media Type: SEDIMENT\_SHORE Concentration (Activity): pCi/kg dry

Sample Point 500 [ INDICATOR - SSW @ 5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD		
378801	5/4/2015 - 5/4/2015	Mn-54	<1.13E+01	0.00E+00	1.13E+01		
		Co-58	<9.47E+00	0.00E+00	9.47E+00		
		Fe-59	<1.70E+01	0.00E+00	1.70E+01		
		Co-60	<6.87E+00	0.00E+00	6.87E+00		
		Zn-65	<2.48E+01	0.00E+00	2.48E+01		
		Zr-95	<1.65E+01	0.00E+00	1.65E+01		
		Nb-95	<7.38E+00	0.00E+00	7.38E+00		
		I-131	<1.20E+01	0.00E+00	1.20E+01		
		Cs-134	<8.69E+00	0.00E+00	8.69E+00		
		Cs-137	<8.16E+00	0.00E+00	8.16E+00		
		Be-7	<7.18E+01	0.00E+00	7.18E+01		
		K-40	1.13E+03	2.37E+02	1.47E+02		
		Co-57	<7.75E+00	0.00E+00	7.75E+00		
		Mo-99	<3.32E+02	0.00E+00	3.32E+02		
		Ag-110M	<7.37E+00	0.00E+00	7.37E+00		
		Sb-122	<4.23E+01	0.00E+00	4.23E+01		
		Sb-125	<2.14E+01	0.00E+00	2.14E+01		
		395501	11/2/2015 - 11/2/2015	Nuclide	Activity	2 Sigma Error	LLD
				Mn-54	<1.26E+01	0.00E+00	1.26E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: SEDIMENT\_SHORE Concentration (Activity): pCi/kg dry

Sample Point 500 [ INDICATOR - SSW @ 5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395501	11/2/2015 - 11/2/2015	Co-58	<1.18E+01	0.00E+00	1.18E+01
		Fe-59	<2.42E+01	0.00E+00	2.42E+01
		Co-60	<1.65E+01	0.00E+00	1.65E+01
		Zn-65	<2.91E+01	0.00E+00	2.91E+01
		Zr-95	<2.47E+01	0.00E+00	2.47E+01
		Nb-95	<1.39E+01	0.00E+00	1.39E+01
		I-131	<1.91E+01	0.00E+00	1.91E+01
		Cs-134	<1.90E+01	0.00E+00	1.90E+01
		Cs-137	<1.59E+01	0.00E+00	1.59E+01
		Be-7	<9.12E+01	0.00E+00	9.12E+01
		K-40	4.84E+02	1.87E+02	2.11E+02
		Co-57	<1.13E+01	0.00E+00	1.13E+01
		Mo-99	<5.53E+02	0.00E+00	5.53E+02
		Ag-110M	<9.85E+00	0.00E+00	9.85E+00
		Sb-122	<8.44E+01	0.00E+00	8.44E+01
		Sb-125	<3.54E+01	0.00E+00	3.54E+01

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379751	5/12/2015 - 5/12/2015	Mn-54	<5.04E+01	0.00E+00	5.04E+01
		Co-58	<5.65E+01	0.00E+00	5.65E+01
		Fe-59	<1.12E+02	0.00E+00	1.12E+02
		Co-60	<5.41E+01	0.00E+00	5.41E+01
		Zn-65	<9.68E+01	0.00E+00	9.68E+01
		Zr-95	<8.99E+01	0.00E+00	8.99E+01
		Nb-95	<6.34E+01	0.00E+00	6.34E+01
		I-131	<1.22E+02	0.00E+00	1.22E+02
		Cs-134	<6.21E+01	0.00E+00	6.21E+01
		Cs-137	1.37E+02	5.28E+01	6.63E+01
		Be-7	<4.81E+02	0.00E+00	4.81E+02
		K-40	1.03E+04	1.51E+03	4.55E+02
		Co-57	<3.47E+01	0.00E+00	3.47E+01
		Mo-99	<6.89E+03	0.00E+00	6.89E+03
		Ag-110M	<4.08E+01	0.00E+00	4.08E+01
		Sb-122	<2.15E+03	0.00E+00	2.15E+03
		Sb-125	<1.05E+02	0.00E+00	1.05E+02
		Fe-55	<1.38E+04	0.00E+00	1.38E+04
		Sr-89	<1.14E+03	0.00E+00	1.14E+03
		Sr-90	<1.81E+03	0.00E+00	1.81E+03

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395793	11/3/2015 - 11/3/2015	Mn-54	<3.04E+01	0.00E+00	3.04E+01
		Co-58	<2.84E+01	0.00E+00	2.84E+01
		Fe-59	<5.22E+01	0.00E+00	5.22E+01
		Co-60	<3.64E+01	0.00E+00	3.64E+01
		Zn-65	<7.57E+01	0.00E+00	7.57E+01
		Zr-95	<4.79E+01	0.00E+00	4.79E+01
		Nb-95	<4.08E+01	0.00E+00	4.08E+01
		I-131	<5.68E+01	0.00E+00	5.67E+01
		Cs-134	<3.75E+01	0.00E+00	3.75E+01
		Cs-137	1.27E+02	4.17E+01	5.33E+01
		Be-7	6.11E+02	2.62E+02	3.66E+02
		K-40	8.99E+03	1.14E+03	4.02E+02
		Co-57	<1.99E+01	0.00E+00	1.99E+01
		Mo-99	<2.05E+03	0.00E+00	2.05E+03
		Ag-110M	<2.49E+01	0.00E+00	2.49E+01
		Sb-122	<3.21E+02	0.00E+00	3.21E+02
		Sb-125	<6.17E+01	0.00E+00	6.17E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 400 [ CONTROL - NE @ 0.6 miles ]

<b>Sample ID:</b> 369322	<b>Sample Dates:</b> 1/5/2015 - 2/2/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<2.64E+00	0.00E+00	2.64E+00
		Co-58	<2.96E+00	0.00E+00	2.96E+00
		Fe-59	<7.46E+00	0.00E+00	7.46E+00
		Co-60	<2.69E+00	0.00E+00	2.69E+00
		Zn-65	<5.18E+00	0.00E+00	5.18E+00
		Zr-95	<4.51E+00	0.00E+00	4.51E+00
		Nb-95	<3.92E+00	0.00E+00	3.92E+00
		I-131	<1.03E+01	0.00E+00	1.03E+01
		Cs-134	<2.60E+00	0.00E+00	2.60E+00
		Cs-137	<2.73E+00	0.00E+00	2.73E+00
		BaLa-140	<4.47E+00	0.00E+00	4.47E+00
		H3SW	<5.55E+01	0.00E+00	2.02E+02

<b>Sample ID:</b> 372310	<b>Sample Dates:</b> 2/2/2015 - 3/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<3.29E+00	0.00E+00	3.29E+00
		Co-58	<4.18E+00	0.00E+00	4.18E+00
		Fe-59	<6.42E+00	0.00E+00	6.42E+00
		Co-60	<3.46E+00	0.00E+00	3.46E+00
		Zn-65	<8.13E+00	0.00E+00	8.13E+00
		Zr-95	<4.73E+00	0.00E+00	4.73E+00
		Nb-95	<4.59E+00	0.00E+00	4.59E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.46E+00	0.00E+00	3.46E+00
		Cs-137	<4.67E+00	0.00E+00	4.67E+00
		BaLa-140	<9.64E+00	0.00E+00	9.64E+00
		H3SW	<4.8E+01	0.00E+00	1.90E+02

<b>Sample ID:</b> 375788	<b>Sample Dates:</b> 3/1/2015 - 4/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.18E+00	0.00E+00	1.18E+00
		Co-58	<1.20E+00	0.00E+00	1.20E+00
		Fe-59	<2.59E+00	0.00E+00	2.59E+00
		Co-60	<1.03E+00	0.00E+00	1.03E+00
		Zn-65	<2.18E+00	0.00E+00	2.18E+00
		Zr-95	<2.71E+00	0.00E+00	2.71E+00
		Nb-95	<1.62E+00	0.00E+00	1.62E+00
		I-131	<1.08E+01	0.00E+00	1.08E+01
		Cs-134	<1.16E+00	0.00E+00	1.16E+00
		Cs-137	<1.14E+00	0.00E+00	1.14E+00
		BaLa-140	<3.96E+00	0.00E+00	3.96E+00
		H3SW	<8.08E+00	0.00E+00	1.99E+02

<b>Sample ID:</b> 378798	<b>Sample Dates:</b> 4/1/2015 - 5/4/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.32E+00	0.00E+00	1.32E+00
		Co-58	<1.41E+00	0.00E+00	1.41E+00
		Fe-59	<3.06E+00	0.00E+00	3.06E+00
		Co-60	<1.33E+00	0.00E+00	1.33E+00
		Zn-65	<2.36E+00	0.00E+00	2.36E+00
		Zr-95	<2.33E+00	0.00E+00	2.33E+00
		Nb-95	<2.04E+00	0.00E+00	2.04E+00
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<1.41E+00	0.00E+00	1.41E+00
		Cs-137	<1.42E+00	0.00E+00	1.42E+00
		BaLa-140	<3.98E+00	0.00E+00	3.98E+00
		H3SW	<4.27E+01	0.00E+00	1.85E+02

<b>Sample ID:</b> 380668	<b>Sample Dates:</b> 5/4/2015 - 6/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<2.20E+00	0.00E+00	2.20E+00
		Co-58	<2.80E+00	0.00E+00	2.80E+00
		Fe-59	<5.35E+00	0.00E+00	5.35E+00
		Co-60	<3.77E+00	0.00E+00	3.77E+00
		Zn-65	<6.58E+00	0.00E+00	6.58E+00
		Zr-95	<6.87E+00	0.00E+00	6.87E+00
		Nb-95	<3.33E+00	0.00E+00	3.33E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 400 [ CONTROL - NE @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380668	5/4/2015 - 6/1/2015	Cs-134	<2.63E+00	0.00E+00	2.63E+00
		Cs-137	<3.47E+00	0.00E+00	3.47E+00
		BaLa-140	<8.98E+00	0.00E+00	8.98E+00
		H3SW	<9.53E+00	0.00E+00	1.91E+02
381595	6/1/2015 - 7/1/2015	Mn-54	<1.85E+00	0.00E+00	1.85E+00
		Co-58	<1.92E+00	0.00E+00	1.92E+00
		Fe-59	<4.94E+00	0.00E+00	4.94E+00
		Co-60	<1.45E+00	0.00E+00	1.45E+00
		Zn-65	<3.26E+00	0.00E+00	3.26E+00
		Zr-95	<3.94E+00	0.00E+00	3.94E+00
		Nb-95	<2.52E+00	0.00E+00	2.52E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<2.25E+00	0.00E+00	2.25E+00
		Cs-137	<1.76E+00	0.00E+00	1.76E+00
		BaLa-140	<4.98E+00	0.00E+00	4.98E+00
		H3SW	<-1.9E+01	0.00E+00	1.97E+02
		384089	7/1/2015 - 8/3/2015	Mn-54	<1.61E+00
Co-58	<1.78E+00			0.00E+00	1.78E+00
Fe-59	<3.62E+00			0.00E+00	3.62E+00
Co-60	<1.26E+00			0.00E+00	1.26E+00
Zn-65	<3.23E+00			0.00E+00	3.23E+00
Zr-95	<3.41E+00			0.00E+00	3.41E+00
Nb-95	<2.40E+00			0.00E+00	2.40E+00
I-131	<1.14E+01			0.00E+00	1.14E+01
Cs-134	<1.64E+00			0.00E+00	1.64E+00
Cs-137	<1.60E+00			0.00E+00	1.60E+00
BaLa-140	<4.75E+00			0.00E+00	4.75E+00
H3SW	<-3.1E+01			0.00E+00	1.92E+02
386821	8/3/2015 - 9/1/2015			Mn-54	<2.64E+00
		Co-58	<3.02E+00	0.00E+00	3.02E+00
		Fe-59	<7.41E+00	0.00E+00	7.41E+00
		Co-60	<2.63E+00	0.00E+00	2.63E+00
		Zn-65	<6.51E+00	0.00E+00	6.51E+00
		Zr-95	<5.76E+00	0.00E+00	5.76E+00
		Nb-95	<3.32E+00	0.00E+00	3.32E+00
		I-131	<1.08E+01	0.00E+00	1.08E+01
		Cs-134	<2.92E+00	0.00E+00	2.92E+00
		Cs-137	<2.99E+00	0.00E+00	2.99E+00
		BaLa-140	<7.94E+00	0.00E+00	7.94E+00
		H3SW	<1.92E+00	0.00E+00	1.88E+02
		390007	9/1/2015 - 10/1/2015	Mn-54	<1.82E+00
Co-58	<2.23E+00			0.00E+00	2.23E+00
Fe-59	<5.08E+00			0.00E+00	5.08E+00
Co-60	<2.28E+00			0.00E+00	2.28E+00
Zn-65	<4.52E+00			0.00E+00	4.52E+00
Zr-95	<4.18E+00			0.00E+00	4.18E+00
Nb-95	<2.82E+00			0.00E+00	2.82E+00
I-131	<1.09E+01			0.00E+00	1.09E+01
Cs-134	<2.20E+00			0.00E+00	2.20E+00
Cs-137	<2.06E+00			0.00E+00	2.06E+00
BaLa-140	<6.37E+00			0.00E+00	6.37E+00
H3SW	<-1.1E+02			0.00E+00	2.02E+02
393427	10/1/2015 - 11/2/2015			Mn-54	<2.14E+00
		Co-58	<1.87E+00	0.00E+00	1.87E+00





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 400 [ CONTROL - NE @ 0.6 miles ]

<b>Sample ID:</b> 393427	<b>Sample Dates:</b> 10/1/2015 - 11/2/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Fe-59	<5.53E+00	0.00E+00	5.53E+00
		Co-60	<2.48E+00	0.00E+00	2.48E+00
		Zn-65	<4.10E+00	0.00E+00	4.10E+00
		Zr-95	<4.07E+00	0.00E+00	4.07E+00
		Nb-95	<3.09E+00	0.00E+00	3.09E+00
		I-131	<9.73E+00	0.00E+00	9.73E+00
		Cs-134	<2.20E+00	0.00E+00	2.20E+00
		Cs-137	<2.25E+00	0.00E+00	2.25E+00
		BaLa-140	<5.98E+00	0.00E+00	5.98E+00
		H3SW	<-1.5E+02	0.00E+00	1.93E+02

<b>Sample ID:</b> 395626	<b>Sample Dates:</b> 11/2/2015 - 12/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.88E+00	0.00E+00	1.88E+00
		Co-58	<2.18E+00	0.00E+00	2.18E+00
		Fe-59	<4.57E+00	0.00E+00	4.57E+00
		Co-60	<2.24E+00	0.00E+00	2.24E+00
		Zn-65	<3.38E+00	0.00E+00	3.38E+00
		Zr-95	<3.66E+00	0.00E+00	3.66E+00
		Nb-95	<2.88E+00	0.00E+00	2.88E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<2.03E+00	0.00E+00	2.03E+00
		Cs-137	<2.18E+00	0.00E+00	2.18E+00
		BaLa-140	<6.51E+00	0.00E+00	6.51E+00
		H3SW	<-3.1E+01	0.00E+00	1.85E+02

<b>Sample ID:</b> 397891	<b>Sample Dates:</b> 12/1/2015 - 1/5/2016	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.79E+00	0.00E+00	1.79E+00
		Co-58	<2.05E+00	0.00E+00	2.05E+00
		Fe-59	<5.01E+00	0.00E+00	5.01E+00
		Co-60	<2.61E+00	0.00E+00	2.61E+00
		Zn-65	<3.15E+00	0.00E+00	3.15E+00
		Zr-95	<3.73E+00	0.00E+00	3.73E+00
		Nb-95	<2.70E+00	0.00E+00	2.70E+00
		I-131	<9.80E+00	0.00E+00	9.80E+00
		Cs-134	<1.79E+00	0.00E+00	1.79E+00
		Cs-137	<2.15E+00	0.00E+00	2.15E+00
		BaLa-140	<6.15E+00	0.00E+00	6.15E+00
		H3SW	<2.57E+01	0.00E+00	1.77E+02

**Sample Point 401 [ INDICATOR - SSW @ 4.9 miles ]**

<b>Sample ID:</b> 369323	<b>Sample Dates:</b> 1/5/2015 - 2/2/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<2.85E+00	0.00E+00	2.85E+00
		Co-58	<2.86E+00	0.00E+00	2.86E+00
		Fe-59	<5.53E+00	0.00E+00	5.53E+00
		Co-60	<2.52E+00	0.00E+00	2.52E+00
		Zn-65	<5.55E+00	0.00E+00	5.55E+00
		Zr-95	<5.28E+00	0.00E+00	5.28E+00
		Nb-95	<3.60E+00	0.00E+00	3.60E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<3.00E+00	0.00E+00	3.00E+00
		Cs-137	<2.48E+00	0.00E+00	2.48E+00
		BaLa-140	<6.16E+00	0.00E+00	6.16E+00
		H3SW	<-4.0E+01	0.00E+00	2.02E+02

<b>Sample ID:</b> 372311	<b>Sample Dates:</b> 2/2/2015 - 3/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<2.69E+00	0.00E+00	2.69E+00
		Co-58	<3.66E+00	0.00E+00	3.66E+00
		Fe-59	<7.84E+00	0.00E+00	7.84E+00
		Co-60	<3.60E+00	0.00E+00	3.60E+00
		Zn-65	<7.16E+00	0.00E+00	7.16E+00
		Zr-95	<7.71E+00	0.00E+00	7.71E+00
		Nb-95	<5.29E+00	0.00E+00	5.29E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 401 [ INDICATOR - SSW @ 4.9 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
372311	2/2/2015 - 3/1/2015	Cs-134	<4.12E+00	0.00E+00	4.12E+00
		Cs-137	<3.58E+00	0.00E+00	3.58E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		H3SW	2.62E+02	1.18E+02	1.91E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
375789	3/1/2015 - 4/1/2015	Mn-54	<1.55E+00	0.00E+00	1.55E+00
		Co-58	<2.03E+00	0.00E+00	2.03E+00
		Fe-59	<4.19E+00	0.00E+00	4.19E+00
		Co-60	<1.80E+00	0.00E+00	1.80E+00
		Zn-65	<3.51E+00	0.00E+00	3.51E+00
		Zr-95	<2.69E+00	0.00E+00	2.69E+00
		Nb-95	<2.19E+00	0.00E+00	2.19E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<1.91E+00	0.00E+00	1.91E+00
		Cs-137	<1.56E+00	0.00E+00	1.56E+00
		BaLa-140	<5.35E+00	0.00E+00	5.35E+00
		H3SW	3.29E+02	1.25E+02	1.99E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378799	4/1/2015 - 5/4/2015	Mn-54	<1.27E+00	0.00E+00	1.27E+00
		Co-58	<1.39E+00	0.00E+00	1.39E+00
		Fe-59	<3.37E+00	0.00E+00	3.37E+00
		Co-60	<1.17E+00	0.00E+00	1.17E+00
		Zn-65	<2.99E+00	0.00E+00	2.99E+00
		Zr-95	<2.28E+00	0.00E+00	2.28E+00
		Nb-95	<1.71E+00	0.00E+00	1.71E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<1.29E+00	0.00E+00	1.29E+00
		Cs-137	<1.09E+00	0.00E+00	1.09E+00
		BaLa-140	<3.12E+00	0.00E+00	3.12E+00
		H3SW	<1.41E+01	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380669	5/4/2015 - 6/1/2015	Mn-54	<3.29E+00	0.00E+00	3.29E+00
		Co-58	<3.87E+00	0.00E+00	3.87E+00
		Fe-59	<9.16E+00	0.00E+00	9.16E+00
		Co-60	<3.82E+00	0.00E+00	3.82E+00
		Zn-65	<5.78E+00	0.00E+00	5.78E+00
		Zr-95	<6.50E+00	0.00E+00	6.50E+00
		Nb-95	<4.35E+00	0.00E+00	4.35E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<4.57E+00	0.00E+00	4.57E+00
		Cs-137	<2.79E+00	0.00E+00	2.79E+00
		BaLa-140	<8.77E+00	0.00E+00	8.77E+00
		H3SW	<7.09E+00	0.00E+00	1.89E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381596	6/1/2015 - 7/1/2015	Mn-54	<1.70E+00	0.00E+00	1.70E+00
		Co-58	<1.74E+00	0.00E+00	1.74E+00
		Fe-59	<3.73E+00	0.00E+00	3.73E+00
		Co-60	<1.79E+00	0.00E+00	1.79E+00
		Zn-65	<3.33E+00	0.00E+00	3.33E+00
		Zr-95	<3.22E+00	0.00E+00	3.22E+00
		Nb-95	<2.36E+00	0.00E+00	2.36E+00
		I-131	<9.94E+00	0.00E+00	9.94E+00
		Cs-134	<1.75E+00	0.00E+00	1.75E+00
		Cs-137	<2.02E+00	0.00E+00	2.02E+00
		BaLa-140	<6.27E+00	0.00E+00	6.27E+00
		H3SW	<9.17E+01	0.00E+00	1.96E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384090	7/1/2015 - 8/3/2015	Mn-54	<1.35E+00	0.00E+00	1.35E+00
		Co-58	<1.75E+00	0.00E+00	1.75E+00



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 401 [ INDICATOR - SSW @ 4.9 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384090	7/1/2015 - 8/3/2015	Fe-59	<3.70E+00	0.00E+00	3.70E+00
		Co-60	<1.52E+00	0.00E+00	1.52E+00
		Zn-65	<4.31E+00	0.00E+00	4.31E+00
		Zr-95	<3.60E+00	0.00E+00	3.60E+00
		Nb-95	<2.29E+00	0.00E+00	2.29E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<1.51E+00	0.00E+00	1.51E+00
		Cs-137	<1.63E+00	0.00E+00	1.63E+00
		BaLa-140	<7.36E+00	0.00E+00	7.36E+00
		H3SW	<4.98E+01	0.00E+00	1.92E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
386822	8/3/2015 - 9/1/2015	Mn-54	<3.37E+00	0.00E+00	3.37E+00
		Co-58	<3.92E+00	0.00E+00	3.92E+00
		Fe-59	<7.29E+00	0.00E+00	7.29E+00
		Co-60	<3.91E+00	0.00E+00	3.91E+00
		Zn-65	<5.15E+00	0.00E+00	5.15E+00
		Zr-95	<8.40E+00	0.00E+00	8.40E+00
		Nb-95	<4.91E+00	0.00E+00	4.91E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<3.58E+00	0.00E+00	3.58E+00
		Cs-137	<2.81E+00	0.00E+00	2.81E+00
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		H3SW	<6.32E+01	0.00E+00	1.94E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390008	9/1/2015 - 10/1/2015	Mn-54	<1.71E+00	0.00E+00	1.71E+00
		Co-58	<2.25E+00	0.00E+00	2.25E+00
		Fe-59	<4.59E+00	0.00E+00	4.59E+00
		Co-60	<1.73E+00	0.00E+00	1.73E+00
		Zn-65	<4.54E+00	0.00E+00	4.54E+00
		Zr-95	<4.32E+00	0.00E+00	4.32E+00
		Nb-95	<2.82E+00	0.00E+00	2.82E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<2.52E+00	0.00E+00	2.52E+00
		Cs-137	<2.19E+00	0.00E+00	2.19E+00
		BaLa-140	<5.39E+00	0.00E+00	5.39E+00
		H3SW	<6.1E+01	0.00E+00	2.00E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
393428	10/1/2015 - 11/2/2015	Mn-54	<2.12E+00	0.00E+00	2.12E+00
		Co-58	<2.39E+00	0.00E+00	2.39E+00
		Fe-59	<6.61E+00	0.00E+00	6.61E+00
		Co-60	<2.84E+00	0.00E+00	2.84E+00
		Zn-65	<4.96E+00	0.00E+00	4.96E+00
		Zr-95	<4.86E+00	0.00E+00	4.86E+00
		Nb-95	<3.48E+00	0.00E+00	3.48E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<2.88E+00	0.00E+00	2.88E+00
		Cs-137	<2.24E+00	0.00E+00	2.24E+00
		BaLa-140	<7.31E+00	0.00E+00	7.31E+00
		H3SW	2.37E+02	1.20E+02	1.94E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395627	11/2/2015 - 12/1/2015	Mn-54	<1.80E+00	0.00E+00	1.80E+00
		Co-58	<2.14E+00	0.00E+00	2.14E+00
		Fe-59	<5.01E+00	0.00E+00	5.01E+00
		Co-60	<1.74E+00	0.00E+00	1.74E+00
		Zn-65	<3.24E+00	0.00E+00	3.24E+00
		Zr-95	<3.62E+00	0.00E+00	3.62E+00
		Nb-95	<2.77E+00	0.00E+00	2.77E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<2.09E+00	0.00E+00	2.09E+00
		Cs-137	<2.35E+00	0.00E+00	2.35E+00



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 401 [ INDICATOR - SSW @ 4.9 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395627	11/2/2015 - 12/1/2015	BaLa-140	<7.13E+00	0.00E+00	7.13E+00
		H3SW	<1.44E+02	0.00E+00	1.83E+02
397892	12/1/2015 - 1/5/2016	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<2.09E+00	0.00E+00	2.09E+00
		Co-58	<1.99E+00	0.00E+00	1.99E+00
		Fe-59	<4.52E+00	0.00E+00	4.52E+00
		Co-60	<2.21E+00	0.00E+00	2.21E+00
		Zn-65	<3.91E+00	0.00E+00	3.91E+00
		Zr-95	<4.25E+00	0.00E+00	4.25E+00
		Nb-95	<3.10E+00	0.00E+00	3.10E+00
		I-131	<9.70E+00	0.00E+00	9.70E+00
		Cs-134	<2.16E+00	0.00E+00	2.16E+00
Cs-137	<2.41E+00	0.00E+00	2.41E+00		
BaLa-140	<6.77E+00	0.00E+00	6.77E+00		
H3SW	2.03E+02	1.08E+02	1.75E+02		

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

Sample ID:	366961	Sample Dates:	1/6/2015 - 1/6/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<9.31E+01	0.00E+00	2.46E+02
Sample ID:	367412	Sample Dates:	1/13/2015 - 1/13/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<4.39E+01	0.00E+00	2.49E+02
Sample ID:	369104	Sample Dates:	1/19/2015 - 1/19/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<-9.9E+01	0.00E+00	2.49E+02
Sample ID:	369347	Sample Dates:	1/26/2015 - 1/26/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<5.41E+01	0.00E+00	2.48E+02
Sample ID:	369914	Sample Dates:	2/3/2015 - 2/3/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<1.75E+02	0.00E+00	2.38E+02
Sample ID:	370707	Sample Dates:	2/11/2015 - 2/11/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<9.60E+01	0.00E+00	2.51E+02
Sample ID:	371706	Sample Dates:	2/18/2015 - 2/18/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<-1.8E+02	0.00E+00	2.62E+02
Sample ID:	372253	Sample Dates:	2/25/2015 - 2/25/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<1.33E+02	0.00E+00	2.41E+02
Sample ID:	372975	Sample Dates:	3/4/2015 - 3/4/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<2.02E+02	0.00E+00	2.46E+02
Sample ID:	373999	Sample Dates:	3/10/2015 - 3/10/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<7.86E+01	0.00E+00	2.41E+02
Sample ID:	374734	Sample Dates:	3/18/2015 - 3/18/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<-9.1E+01	0.00E+00	2.50E+02
Sample ID:	374885	Sample Dates:	3/24/2015 - 3/24/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<-3.5E+00	0.00E+00	2.47E+02
Sample ID:	375208	Sample Dates:	3/31/2015 - 3/31/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<2.65E+01	0.00E+00	2.56E+02
Sample ID:	376938	Sample Dates:	4/7/2015 - 4/7/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<1.29E+02	0.00E+00	2.44E+02
Sample ID:	377583	Sample Dates:	4/15/2015 - 4/15/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<-1.1E+01	0.00E+00	2.53E+02
Sample ID:	378786	Sample Dates:	4/21/2015 - 4/21/2015	Nuclide	Activity	2 Sigma Error	LLD
				H3SW	<1.09E+02	0.00E+00	2.42E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
379095	4/29/2015 - 4/29/2015	H3SW	<1.20E+02	0.00E+00	2.53E+02
379352	5/6/2015 - 5/6/2015	H3SW	<1.93E+02	0.00E+00	2.49E+02
379713	5/12/2015 - 5/12/2015	H3SW	<3.17E+01	0.00E+00	2.52E+02
380635	5/19/2015 - 5/19/2015	H3SW	<2.02E+02	0.00E+00	2.42E+02
380754	5/26/2015 - 5/26/2015	H3SW	<1.14E+02	0.00E+00	2.46E+02
381082	6/2/2015 - 6/2/2015	H3SW	<3.18E+01	0.00E+00	2.47E+02
381512	6/9/2015 - 6/9/2015	H3SW	<5.32E+00	0.00E+00	2.47E+02
381968	6/16/2015 - 6/16/2015	H3SW	<9.85E+01	0.00E+00	2.49E+02
382070	6/23/2015 - 6/23/2015	H3SW	<1.36E+02	0.00E+00	2.40E+02
382830	6/30/2015 - 6/30/2015	H3SW	<1.11E+02	0.00E+00	2.53E+02
383475	7/7/2015 - 7/7/2015	H3SW	<8.23E+01	0.00E+00	2.48E+02
383958	7/14/2015 - 7/14/2015	H3SW	<-1.5E+01	0.00E+00	2.64E+02
384787	7/22/2015 - 7/22/2015	H3SW	<-4.1E+01	0.00E+00	2.71E+02
384898	7/28/2015 - 7/28/2015	H3SW	<5.60E+01	0.00E+00	2.56E+02
386048	8/4/2015 - 8/4/2015	H3SW	<1.58E+01	0.00E+00	2.64E+02
386314	8/11/2015 - 8/11/2015	H3SW	<1.28E+02	0.00E+00	2.47E+02
387331	8/18/2015 - 8/18/2015	H3SW	<1.03E+02	0.00E+00	2.48E+02
388458	8/26/2015 - 8/26/2015	H3SW	<8.34E+01	0.00E+00	2.54E+02
389717	9/1/2015 - 9/1/2015	H3SW	<-1.6E+02	0.00E+00	2.62E+02
390740	9/9/2015 - 9/9/2015	H3SW	<4.39E+01	0.00E+00	2.75E+02
390881	9/15/2015 - 9/15/2015	H3SW	<3.42E+01	0.00E+00	2.54E+02
392729	9/22/2015 - 9/22/2015	H3SW	<4.58E+01	0.00E+00	2.55E+02
393189	9/29/2015 - 9/29/2015	H3SW	<-1.0E+02	0.00E+00	2.55E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
394958	10/7/2015 - 10/7/2015	H3SW	<-2.4E+01	0.00E+00	2.53E+02
395070	10/13/2015 - 10/13/2015	H3SW	<1.47E+02	0.00E+00	2.62E+02
395249	10/20/2015 - 10/20/2015	H3SW	<1.66E+01	0.00E+00	2.55E+02
395452	10/27/2015 - 10/27/2015	H3SW	<-7.3E+00	0.00E+00	2.51E+02
395848	11/3/2015 - 11/3/2015	H3SW	<1.07E+02	0.00E+00	2.51E+02
396242	11/11/2015 - 11/11/2015	H3SW	<-3.1E+01	0.00E+00	2.55E+02
397567	11/17/2015 - 11/17/2015	H3SW	<-2.7E+01	0.00E+00	2.56E+02
397744	11/24/2015 - 11/24/2015	H3SW	<1.56E+02	0.00E+00	2.42E+02
398117	12/1/2015 - 12/1/2015	H3SW	<6.77E+01	0.00E+00	2.53E+02
398606	12/9/2015 - 12/9/2015	H3SW	<8.50E+01	0.00E+00	2.53E+02
399034	12/15/2015 - 12/15/2015	H3SW	<9.58E+01	0.00E+00	2.67E+02
399100	12/23/2015 - 12/23/2015	H3SW	<1.83E+02	0.00E+00	2.52E+02
399406	12/29/2015 - 12/29/2015	H3SW	<2.94E+01	0.00E+00	2.55E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366908	1/6/2015 - 1/6/2015	H3SW	<-1.4E+01	0.00E+00	2.47E+02
367335	1/13/2015 - 1/13/2015	H3SW	<-1.8E+02	0.00E+00	2.57E+02
368900	1/19/2015 - 1/19/2015	H3SW	<-8.1E+01	0.00E+00	2.60E+02
369105	1/6/2015 - 1/26/2015	Mn-54	<9.39E+00	0.00E+00	9.39E+00
		Co-58	<7.28E+00	0.00E+00	7.28E+00
		Fe-59	<2.20E+01	0.00E+00	2.20E+01
		Co-60	<8.19E+00	0.00E+00	8.19E+00
		Zn-65	<1.94E+01	0.00E+00	1.94E+01
		Zr-95	<1.58E+01	0.00E+00	1.58E+01
		Nb-95	<1.19E+01	0.00E+00	1.19E+01
		I-131	<3.84E+01	0.00E+00	3.84E+01
		Cs-134	<8.10E+00	0.00E+00	8.10E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<2.62E+04	0.00E+00	2.62E+04
		Ba-140	<8.61E+01	0.00E+00	8.61E+01
		Total-Gam	0.00E+00		
369333	1/26/2015 - 1/26/2015	H3SW	<1.70E+02	0.00E+00	2.45E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
369643	2/3/2015 - 2/3/2015				
		H3SW	<3.29E+01	0.00E+00	2.36E+02
370545	2/11/2015 - 2/11/2015				
		H3SW	<7.32E+01	0.00E+00	2.54E+02
371516	2/18/2015 - 2/18/2015				
		H3SW	<-2.3E+02	0.00E+00	2.67E+02
372699	2/3/2015 - 2/25/2015				
		Mn-54	<8.83E+00	0.00E+00	8.83E+00
		Co-58	<1.08E+01	0.00E+00	1.08E+01
		Fe-59	<2.25E+01	0.00E+00	2.25E+01
		Co-60	<8.20E+00	0.00E+00	8.20E+00
		Zn-65	<1.39E+01	0.00E+00	1.39E+01
		Zr-95	<1.59E+01	0.00E+00	1.59E+01
		Nb-95	<1.26E+01	0.00E+00	1.26E+01
		I-131	<6.03E+01	0.00E+00	6.03E+01
		Cs-134	<8.35E+00	0.00E+00	8.35E+00
		Cs-137	<9.59E+00	0.00E+00	9.59E+00
		La-140	<1.70E+05	0.00E+00	1.70E+05
		Ba-140	<1.01E+02	0.00E+00	1.01E+02
	Total-Gam	0.00E+00			
372241	2/25/2015 - 2/25/2015				
		H3SW	<1.09E+02	0.00E+00	2.42E+02
372963	3/4/2015 - 3/4/2015				
		H3SW	<2.44E+01	0.00E+00	2.45E+02
373986	3/10/2015 - 3/10/2015				
		H3SW	<7.65E+01	0.00E+00	2.56E+02
374722	3/18/2015 - 3/18/2015				
		H3SW	<-1.5E+02	0.00E+00	2.58E+02
374873	3/24/2015 - 3/24/2015				
		H3SW	<-1.6E+02	0.00E+00	2.58E+02
375209	3/4/2015 - 3/31/2015				
		Mn-54	<8.30E+00	0.00E+00	8.30E+00
		Co-58	<7.84E+00	0.00E+00	7.84E+00
		Fe-59	<1.57E+01	0.00E+00	1.57E+01
		Co-60	<6.84E+00	0.00E+00	6.84E+00
		Zn-65	<1.35E+01	0.00E+00	1.35E+01
		Zr-95	<1.68E+01	0.00E+00	1.68E+01
		Nb-95	<1.07E+01	0.00E+00	1.07E+01
		I-131	<2.73E+01	0.00E+00	2.73E+01
		Cs-134	<7.84E+00	0.00E+00	7.84E+00
		Cs-137	<1.08E+01	0.00E+00	1.08E+01
		La-140	<2.82E+03	0.00E+00	2.82E+03
		Ba-140	<6.43E+01	0.00E+00	6.43E+01
	Total-Gam	0.00E+00			
375196	3/31/2015 - 3/31/2015				
		H3SW	<5.42E+00	0.00E+00	2.54E+02
376607	4/7/2015 - 4/7/2015				
		H3SW	<8.71E+01	0.00E+00	2.51E+02
377303	4/15/2015 - 4/15/2015				
		H3SW	<-1.9E+01	0.00E+00	2.47E+02
378186	4/21/2015 - 4/21/2015				
		H3SW	<8.28E+01	0.00E+00	2.46E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378788	4/7/2015 - 4/29/2015	Mn-54	<8.36E+00	0.00E+00	8.36E+00
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<2.43E+01	0.00E+00	2.43E+01
		Co-60	<9.78E+00	0.00E+00	9.78E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.55E+01	0.00E+00	1.55E+01
		Nb-95	<1.18E+01	0.00E+00	1.18E+01
		I-131	<3.42E+01	0.00E+00	3.42E+01
		Cs-134	<9.27E+00	0.00E+00	9.27E+00
		Cs-137	<9.85E+00	0.00E+00	9.85E+00
		La-140	<1.26E+04	0.00E+00	1.26E+04
		Ba-140	<7.91E+01	0.00E+00	7.91E+01
		Total-Gam	0.00E+00		
		378927	4/29/2015 - 4/29/2015	H3SW	<-1.6E+01
379340	5/6/2015 - 5/6/2015	H3SW	<7.78E+01	0.00E+00	2.53E+02
379684	5/12/2015 - 5/12/2015	H3SW	<3.90E+01	0.00E+00	2.53E+02
380586	5/19/2015 - 5/19/2015	H3SW	<6.74E+01	0.00E+00	2.48E+02
380673	5/6/2015 - 5/26/2015	Mn-54	<9.95E+00	0.00E+00	9.95E+00
		Co-58	<1.01E+01	0.00E+00	1.01E+01
		Fe-59	<2.13E+01	0.00E+00	2.13E+01
		Co-60	<8.39E+00	0.00E+00	8.39E+00
		Zn-65	<1.61E+01	0.00E+00	1.61E+01
		Zr-95	<1.32E+01	0.00E+00	1.32E+01
		Nb-95	<1.22E+01	0.00E+00	1.22E+01
		I-131	<4.24E+01	0.00E+00	4.24E+01
		Cs-134	<7.42E+00	0.00E+00	7.42E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<8.49E+03	0.00E+00	8.49E+03
		Ba-140	<7.86E+01	0.00E+00	7.86E+01
		Total-Gam	0.00E+00		
		380734	5/26/2015 - 5/26/2015	H3SW	<6.21E+01
381070	6/2/2015 - 6/2/2015	H3SW	<1.36E+02	0.00E+00	2.46E+02
381445	6/9/2015 - 6/9/2015	H3SW	<1.36E+02	0.00E+00	2.47E+02
381761	6/16/2015 - 6/16/2015	H3SW	<2.49E+01	0.00E+00	2.45E+02
381972	6/23/2015 - 6/23/2015	H3SW	<-1.0E+02	0.00E+00	2.47E+02
382353	6/2/2015 - 6/30/2015	Mn-54	<7.19E+00	0.00E+00	7.19E+00
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<2.14E+01	0.00E+00	2.14E+01
		Co-60	<7.56E+00	0.00E+00	7.57E+00
		Zn-65	<1.35E+01	0.00E+00	1.35E+01
		Zr-95	<1.56E+01	0.00E+00	1.56E+01
		Nb-95	<9.54E+00	0.00E+00	9.54E+00
		I-131	<2.88E+01	0.00E+00	2.88E+01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 495 [ INDICATOR -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
382353	6/2/2015 - 6/30/2015	Cs-134	<8.27E+00	0.00E+00	8.27E+00
		Cs-137	<1.03E+01	0.00E+00	1.03E+01
		La-140	<2.64E+03	0.00E+00	2.64E+03
		Ba-140	<7.31E+01	0.00E+00	7.31E+01
		Total-Gam	0.00E+00		
382527	6/30/2015 - 6/30/2015	H3SW	<1.01E+02	0.00E+00	2.42E+02
383463	7/7/2015 - 7/7/2015	H3SW	<7.49E+01	0.00E+00	2.50E+02
383947	7/14/2015 - 7/14/2015	H3SW	<5.50E+01	0.00E+00	2.56E+02
384775	7/22/2015 - 7/22/2015	H3SW	<-6.7E+01	0.00E+00	2.68E+02
384901	7/7/2015 - 7/28/2015	Mn-54	<6.73E+00	0.00E+00	6.73E+00
		Co-58	<1.04E+01	0.00E+00	1.04E+01
		Fe-59	<1.81E+01	0.00E+00	1.81E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<1.58E+01	0.00E+00	1.58E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<1.00E+01	0.00E+00	1.00E+01
		I-131	<2.00E+01	0.00E+00	2.00E+01
		Cs-134	<7.82E+00	0.00E+00	7.82E+00
		Cs-137	<9.84E+00	0.00E+00	9.84E+00
		La-140	<4.77E+02	0.00E+00	4.77E+02
		Ba-140	<5.41E+01	0.00E+00	5.41E+01
		Total-Gam	0.00E+00		
384886	7/28/2015 - 7/28/2015	H3SW	<2.11E+02	0.00E+00	2.45E+02
386036	8/4/2015 - 8/4/2015	H3SW	<2.33E+01	0.00E+00	2.59E+02
386302	8/11/2015 - 8/11/2015	H3SW	<-7.6E+01	0.00E+00	2.57E+02
387257	8/18/2015 - 8/18/2015	H3SW	<-4.3E+01	0.00E+00	2.54E+02
388464	8/4/2015 - 8/26/2015	Mn-54	<7.24E+00	0.00E+00	7.24E+00
		Co-58	<8.94E+00	0.00E+00	8.94E+00
		Fe-59	<2.33E+01	0.00E+00	2.33E+01
		Co-60	<8.18E+00	0.00E+00	8.18E+00
		Zn-65	<1.49E+01	0.00E+00	1.49E+01
		Zr-95	<1.39E+01	0.00E+00	1.39E+01
		Nb-95	<1.05E+01	0.00E+00	1.05E+01
		I-131	<3.86E+01	0.00E+00	3.86E+01
		Cs-134	<7.87E+00	0.00E+00	7.87E+00
		Cs-137	<1.04E+01	0.00E+00	1.04E+01
		La-140	<1.34E+04	0.00E+00	1.34E+04
		Ba-140	<6.92E+01	0.00E+00	6.92E+01
		Total-Gam	0.00E+00		
388445	8/26/2015 - 8/26/2015	H3SW	<8.47E+01	0.00E+00	2.51E+02
389511	9/1/2015 - 9/1/2015	H3SW	<2.19E+02	0.00E+00	2.54E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390137	9/9/2015 - 9/9/2015	H3SW	<1.62E+01	0.00E+00	2.56E+02
390869	9/15/2015 - 9/15/2015	H3SW	<9.43E+01	0.00E+00	2.58E+02
392091	9/22/2015 - 9/22/2015	H3SW	<2.08E+02	0.00E+00	2.70E+02
392603	9/1/2015 - 9/29/2015	Mn-54	<9.41E+00	0.00E+00	9.41E+00
		Co-58	<1.04E+01	0.00E+00	1.04E+01
		Fe-59	<2.55E+01	0.00E+00	2.55E+01
		Co-60	<9.79E+00	0.00E+00	9.79E+00
		Zn-65	<1.85E+01	0.00E+00	1.85E+01
		Zr-95	<1.60E+01	0.00E+00	1.60E+01
		Nb-95	<1.07E+01	0.00E+00	1.07E+01
		I-131	<5.01E+01	0.00E+00	5.01E+01
		Cs-134	<9.11E+00	0.00E+00	9.11E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<4.32E+04	0.00E+00	4.32E+04
		Ba-140	<9.88E+01	0.00E+00	9.88E+01
		Total-Gam	0.00E+00		
392577	9/29/2015 - 9/29/2015	H3SW	<4.20E+01	0.00E+00	2.49E+02
394946	10/7/2015 - 10/7/2015	H3SW	<-1.3E+02	0.00E+00	2.57E+02
395058	10/13/2015 - 10/13/2015	H3SW	<-1.0E+02	0.00E+00	2.71E+02
395212	10/20/2015 - 10/20/2015	H3SW	<3.00E+01	0.00E+00	2.69E+02
395250	10/7/2015 - 10/27/2015	Mn-54	<6.81E+00	0.00E+00	6.81E+00
		Co-58	<1.07E+01	0.00E+00	1.07E+01
		Fe-59	<1.33E+01	0.00E+00	1.33E+01
		Co-60	<6.91E+00	0.00E+00	6.91E+00
		Zn-65	<1.61E+01	0.00E+00	1.61E+01
		Zr-95	<1.73E+01	0.00E+00	1.73E+01
		Nb-95	<1.27E+01	0.00E+00	1.27E+01
		I-131	<3.66E+01	0.00E+00	3.66E+01
		Cs-134	<7.86E+00	0.00E+00	7.86E+00
		Cs-137	<1.03E+01	0.00E+00	1.04E+01
		La-140	<9.04E+03	0.00E+00	9.04E+03
		Ba-140	<7.33E+01	0.00E+00	7.33E+01
		Total-Gam	0.00E+00		
395440	10/27/2015 - 10/27/2015	H3SW	<1.10E+01	0.00E+00	2.54E+02
395807	11/3/2015 - 11/3/2015	H3SW	<-7.1E+01	0.00E+00	2.51E+02
396083	11/11/2015 - 11/11/2015	H3SW	<-3.3E+01	0.00E+00	2.54E+02
397553	11/17/2015 - 11/17/2015	H3SW	<7.83E+01	0.00E+00	2.51E+02
397751	11/3/2015 - 11/24/2015	Mn-54	<7.34E+00	0.00E+00	7.34E+00
		Co-58	<7.59E+00	0.00E+00	7.59E+00
		Fe-59	<2.57E+01	0.00E+00	2.57E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
397751	11/3/2015 - 11/24/2015	Co-60	<7.68E+00	0.00E+00	7.68E+00
		Zn-65	<1.86E+01	0.00E+00	1.86E+01
		Zr-95	<1.80E+01	0.00E+00	1.80E+01
		Nb-95	<1.46E+01	0.00E+00	1.46E+01
		I-131	<6.33E+01	0.00E+00	6.33E+01
		Cs-134	<8.55E+00	0.00E+00	8.55E+00
		Cs-137	<9.32E+00	0.00E+00	9.32E+00
		La-140	<1.49E+05	0.00E+00	1.49E+05
		Ba-140	<1.01E+02	0.00E+00	1.01E+02
		Total-Gam	0.00E+00		
		397732	11/24/2015 - 11/24/2015	Nuclide	Activity
H3SW	<-2.6E+01			0.00E+00	2.59E+02
398105	12/1/2015 - 12/1/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.30E+02	0.00E+00	2.62E+02
398520	12/9/2015 - 12/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<6.96E+01	0.00E+00	2.51E+02
399022	12/15/2015 - 12/15/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<3.94E+01	0.00E+00	2.62E+02
399088	12/23/2015 - 12/23/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<4.77E+01	0.00E+00	2.52E+02
399072	12/1/2015 - 12/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.61E+00	0.00E+00	7.61E+00
		Co-58	<7.98E+00	0.00E+00	7.98E+00
		Fe-59	<1.61E+01	0.00E+00	1.61E+01
		Co-60	<8.39E+00	0.00E+00	8.39E+00
		Zn-65	<2.02E+01	0.00E+00	2.02E+01
		Zr-95	<1.52E+01	0.00E+00	1.52E+01
		Nb-95	<8.88E+00	0.00E+00	8.88E+00
		I-131	<2.90E+01	0.00E+00	2.90E+01
		Cs-134	<7.41E+00	0.00E+00	7.41E+00
		Cs-137	<1.06E+01	0.00E+00	1.06E+01
		La-140	<3.95E+03	0.00E+00	3.95E+03
		Ba-140	<6.63E+01	0.00E+00	6.63E+01
Total-Gam	0.00E+00				
399146	12/29/2015 - 12/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.7E+01	0.00E+00	2.58E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366909	1/6/2015 - 1/6/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<7.48E+01	0.00E+00	2.48E+02
367336	1/13/2015 - 1/13/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.1E+02	0.00E+00	2.56E+02
368901	1/19/2015 - 1/19/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-6.1E+01	0.00E+00	2.60E+02
369106	1/6/2015 - 1/26/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.41E+00	0.00E+00	8.41E+00
		Co-58	<9.62E+00	0.00E+00	9.62E+00
		Fe-59	<2.44E+01	0.00E+00	2.44E+01
		Co-60	<9.79E+00	0.00E+00	9.79E+00
		Zn-65	<1.23E+01	0.00E+00	1.23E+01
		Zr-95	<1.74E+01	0.00E+00	1.74E+01
		Nb-95	<1.44E+01	0.00E+00	1.44E+01
		I-131	<4.98E+01	0.00E+00	4.98E+01
Cs-134	<8.11E+00	0.00E+00	8.11E+00		



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369106	1/6/2015 - 1/26/2015	Cs-137	<1.04E+01	0.00E+00	1.04E+01
		La-140	<4.83E+04	0.00E+00	4.83E+04
		Ba-140	<7.22E+01	0.00E+00	7.22E+01
		Total-Gam	0.00E+00		
369334	1/26/2015 - 1/26/2015	H3SW	<-3.7E+00	0.00E+00	2.44E+02
369644	2/3/2015 - 2/3/2015	H3SW	<8.52E+01	0.00E+00	2.36E+02
370546	2/11/2015 - 2/11/2015	H3SW	<1.74E+01	0.00E+00	2.54E+02
371517	2/18/2015 - 2/18/2015	H3SW	<-1.9E+02	0.00E+00	2.66E+02
372700	2/3/2015 - 2/25/2015	Mn-54	<9.80E+00	0.00E+00	9.80E+00
		Co-58	<9.59E+00	0.00E+00	9.59E+00
		Fe-59	<1.99E+01	0.00E+00	1.99E+01
		Co-60	<7.68E+00	0.00E+00	7.68E+00
		Zn-65	<2.16E+01	0.00E+00	2.16E+01
		Zr-95	<1.82E+01	0.00E+00	1.82E+01
		Nb-95	<1.57E+01	0.00E+00	1.57E+01
		I-131	<6.49E+01	0.00E+00	6.49E+01
		Cs-134	<8.14E+00	0.00E+00	8.14E+00
		Cs-137	<7.83E+00	0.00E+00	7.83E+00
		La-140	<1.63E+05	0.00E+00	1.63E+05
		Ba-140	<1.34E+02	0.00E+00	1.34E+02
		Total-Gam	0.00E+00		
372242	2/25/2015 - 2/25/2015	H3SW	<1.76E+00	0.00E+00	2.42E+02
372964	3/4/2015 - 3/4/2015	H3SW	<5.25E+00	0.00E+00	2.45E+02
373987	3/10/2015 - 3/10/2015	H3SW	<5.23E+01	0.00E+00	2.56E+02
374723	3/18/2015 - 3/18/2015	H3SW	<-1.3E+02	0.00E+00	2.57E+02
374874	3/24/2015 - 3/24/2015	H3SW	<-1.2E+02	0.00E+00	2.62E+02
375210	3/4/2015 - 3/31/2015	Mn-54	<8.31E+00	0.00E+00	8.31E+00
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<1.83E+01	0.00E+00	1.83E+01
		Co-60	<3.42E+00	0.00E+00	3.42E+00
		Zn-65	<1.82E+01	0.00E+00	1.82E+01
		Zr-95	<1.57E+01	0.00E+00	1.57E+01
		Nb-95	<1.16E+01	0.00E+00	1.16E+01
		I-131	<2.54E+01	0.00E+00	2.54E+01
		Cs-134	<7.85E+00	0.00E+00	7.85E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<3.59E+03	0.00E+00	3.59E+03
		Ba-140	<6.89E+01	0.00E+00	6.89E+01
		Total-Gam	0.00E+00		
375197	3/31/2015 - 3/31/2015	H3SW	<2.52E+01	0.00E+00	2.53E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
376608	4/7/2015 - 4/7/2015	H3SW	<7.43E+00	0.00E+00	2.52E+02
377304	4/15/2015 - 4/15/2015	H3SW	<2.46E+01	0.00E+00	2.47E+02
378187	4/21/2015 - 4/21/2015	H3SW	<1.43E+02	0.00E+00	2.46E+02
378789	4/7/2015 - 4/29/2015	Mn-54	<8.02E+00	0.00E+00	8.02E+00
		Co-58	<7.70E+00	0.00E+00	7.70E+00
		Fe-59	<1.76E+01	0.00E+00	1.76E+01
		Co-60	<6.85E+00	0.00E+00	6.85E+00
		Zn-65	<2.20E+01	0.00E+00	2.20E+01
		Zr-95	<2.11E+01	0.00E+00	2.11E+01
		Nb-95	<1.16E+01	0.00E+00	1.16E+01
		I-131	<4.38E+01	0.00E+00	4.38E+01
		Cs-134	<8.09E+00	0.00E+00	8.09E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<1.44E+04	0.00E+00	1.44E+04
		Ba-140	<7.70E+01	0.00E+00	7.70E+01
		Total-Gam	0.00E+00		
378928	4/29/2015 - 4/29/2015	H3SW	<-3.2E+01	0.00E+00	2.57E+02
379341	5/6/2015 - 5/6/2015	H3SW	<9.90E+01	0.00E+00	2.53E+02
379685	5/12/2015 - 5/12/2015	H3SW	<6.87E+01	0.00E+00	2.52E+02
380587	5/19/2015 - 5/19/2015	H3SW	<1.30E+02	0.00E+00	2.48E+02
380674	5/6/2015 - 5/26/2015	Mn-54	<6.84E+00	0.00E+00	6.84E+00
		Co-58	<9.02E+00	0.00E+00	9.02E+00
		Fe-59	<2.36E+01	0.00E+00	2.36E+01
		Co-60	<7.66E+00	0.00E+00	7.66E+00
		Zn-65	<2.12E+01	0.00E+00	2.12E+01
		Zr-95	<1.56E+01	0.00E+00	1.56E+01
		Nb-95	<1.20E+01	0.00E+00	1.20E+01
		I-131	<3.65E+01	0.00E+00	3.65E+01
		Cs-134	<9.09E+00	0.00E+00	9.09E+00
		Cs-137	<1.06E+01	0.00E+00	1.06E+01
		La-140	<7.03E+03	0.00E+00	7.03E+03
		Ba-140	<6.87E+01	0.00E+00	6.87E+01
		Total-Gam	0.00E+00		
380735	5/26/2015 - 5/26/2015	H3SW	<1.20E+02	0.00E+00	2.43E+02
381071	6/2/2015 - 6/2/2015	H3SW	<5.17E+01	0.00E+00	2.46E+02
381446	6/9/2015 - 6/9/2015	H3SW	<3.63E+00	0.00E+00	2.47E+02
381762	6/16/2015 - 6/16/2015	H3SW	<4.45E+01	0.00E+00	2.45E+02
381973	6/23/2015 - 6/23/2015	H3SW	<-2.1E+01	0.00E+00	2.47E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
382354	6/2/2015 - 6/30/2015	Mn-54	<7.95E+00	0.00E+00	7.95E+00
		Co-58	<8.70E+00	0.00E+00	8.70E+00
		Fe-59	<1.58E+01	0.00E+00	1.58E+01
		Co-60	<4.84E+00	0.00E+00	4.84E+00
		Zn-65	<1.60E+01	0.00E+00	1.60E+01
		Zr-95	<1.57E+01	0.00E+00	1.57E+01
		Nb-95	<1.35E+01	0.00E+00	1.35E+01
		I-131	<3.03E+01	0.00E+00	3.03E+01
		Cs-134	<8.48E+00	0.00E+00	8.48E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		La-140	<3.32E+03	0.00E+00	3.32E+03
		Ba-140	<6.72E+01	0.00E+00	6.72E+01
		Total-Gam	0.00E+00		
		382528	6/30/2015 - 6/30/2015	H3SW	<1.63E+02
383464	7/7/2015 - 7/7/2015	H3SW	<1.70E+01	0.00E+00	2.52E+02
383948	7/14/2015 - 7/14/2015	H3SW	<-2.3E+01	0.00E+00	2.56E+02
384776	7/22/2015 - 7/22/2015	H3SW	<-1.9E+02	0.00E+00	2.68E+02
384902	7/7/2015 - 7/28/2015	Mn-54	<8.26E+00	0.00E+00	8.26E+00
		Co-58	<9.56E+00	0.00E+00	9.56E+00
		Fe-59	<1.63E+01	0.00E+00	1.63E+01
		Co-60	<6.84E+00	0.00E+00	6.84E+00
		Zn-65	<2.16E+01	0.00E+00	2.16E+01
		Zr-95	<1.58E+01	0.00E+00	1.58E+01
		Nb-95	<8.18E+00	0.00E+00	8.18E+00
		I-131	<2.54E+01	0.00E+00	2.54E+01
		Cs-134	<8.36E+00	0.00E+00	8.35E+00
		Cs-137	<1.06E+01	0.00E+00	1.06E+01
		La-140	<1.41E+03	0.00E+00	1.41E+03
		Ba-140	<6.65E+01	0.00E+00	6.65E+01
		Total-Gam	0.00E+00		
		384887	7/28/2015 - 7/28/2015	H3SW	<9.57E+01
386037	8/4/2015 - 8/4/2015	H3SW	<5.25E+01	0.00E+00	2.59E+02
386303	8/11/2015 - 8/11/2015	H3SW	<1.44E+01	0.00E+00	2.56E+02
387258	8/18/2015 - 8/18/2015	H3SW	<7.92E+01	0.00E+00	2.53E+02
388465	8/4/2015 - 8/26/2015	Mn-54	<6.38E+00	0.00E+00	6.38E+00
		Co-58	<8.53E+00	0.00E+00	8.53E+00
		Fe-59	<2.24E+01	0.00E+00	2.24E+01
		Co-60	<7.57E+00	0.00E+00	7.57E+00
		Zn-65	<1.83E+01	0.00E+00	1.83E+01
		Zr-95	<1.86E+01	0.00E+00	1.86E+01
		Nb-95	<1.10E+01	0.00E+00	1.10E+01
		I-131	<4.15E+01	0.00E+00	4.15E+01
		Cs-134	<6.94E+00	0.00E+00	6.94E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<1.10E+04	0.00E+00	1.10E+04



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
388465	8/4/2015 - 8/26/2015	Ba-140	<6.35E+01	0.00E+00	6.35E+01
		Total-Gam	0.00E+00		
388446	8/26/2015 - 8/26/2015	H3SW	<2.03E+01	0.00E+00	2.52E+02
389512	9/1/2015 - 9/1/2015	H3SW	<7.46E+01	0.00E+00	2.51E+02
390138	9/9/2015 - 9/9/2015	H3SW	<-7.1E+01	0.00E+00	2.57E+02
390870	9/15/2015 - 9/15/2015	H3SW	<5.53E+00	0.00E+00	2.57E+02
392092	9/22/2015 - 9/22/2015	H3SW	<1.50E+02	0.00E+00	2.69E+02
392607	9/1/2015 - 9/29/2015	Mn-54	<7.30E+00	0.00E+00	7.30E+00
		Co-58	<1.12E+01	0.00E+00	1.12E+01
		Fe-59	<1.24E+01	0.00E+00	1.24E+01
		Co-60	<6.92E+00	0.00E+00	6.92E+00
		Zn-65	<2.22E+01	0.00E+00	2.22E+01
		Zr-95	<1.75E+01	0.00E+00	1.75E+01
		Nb-95	<1.23E+01	0.00E+00	1.23E+01
		I-131	<4.81E+01	0.00E+00	4.81E+01
		Cs-134	<6.96E+00	0.00E+00	6.96E+00
		Cs-137	<9.31E+00	0.00E+00	9.32E+00
		La-140	<5.47E+04	0.00E+00	5.47E+04
		Ba-140	<9.27E+01	0.00E+00	9.27E+01
		Total-Gam	0.00E+00		
392581	9/29/2015 - 9/29/2015	H3SW	<1.03E+02	0.00E+00	2.49E+02
394947	10/7/2015 - 10/7/2015	H3SW	<-5.5E+01	0.00E+00	2.55E+02
395059	10/13/2015 - 10/13/2015	H3SW	<-9.4E+01	0.00E+00	2.72E+02
395213	10/20/2015 - 10/20/2015	H3SW	<3.41E+01	0.00E+00	2.70E+02
395251	10/7/2015 - 10/27/2015	Mn-54	<9.33E+00	0.00E+00	9.33E+00
		Co-58	<8.03E+00	0.00E+00	8.03E+00
		Fe-59	<1.49E+01	0.00E+00	1.49E+01
		Co-60	<8.39E+00	0.00E+00	8.39E+00
		Zn-65	<1.92E+01	0.00E+00	1.92E+01
		Zr-95	<1.85E+01	0.00E+00	1.85E+01
		Nb-95	<1.40E+01	0.00E+00	1.40E+01
		I-131	<3.53E+01	0.00E+00	3.53E+01
		Cs-134	<9.08E+00	0.00E+00	9.08E+00
		Cs-137	<9.04E+00	0.00E+00	9.03E+00
		La-140	<7.05E+03	0.00E+00	7.05E+03
		Ba-140	<6.47E+01	0.00E+00	6.47E+01
		Total-Gam	0.00E+00		
395441	10/27/2015 - 10/27/2015	H3SW	<-2.1E+02	0.00E+00	2.54E+02
395811	11/3/2015 - 11/3/2015	H3SW	<1.84E+00	0.00E+00	2.52E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396084	11/11/2015 - 11/11/2015	H3SW	<3.45E+01	0.00E+00	2.53E+02
397554	11/17/2015 - 11/17/2015	H3SW	<-4.8E+01	0.00E+00	2.53E+02
397752	11/3/2015 - 11/24/2015	Mn-54	<8.82E+00	0.00E+00	8.82E+00
		Co-58	<8.11E+00	0.00E+00	8.11E+00
		Fe-59	<2.34E+01	0.00E+00	2.34E+01
		Co-60	<5.95E+00	0.00E+00	5.95E+00
		Zn-65	<1.96E+01	0.00E+00	1.96E+01
		Zr-95	<1.65E+01	0.00E+00	1.65E+01
		Nb-95	<1.24E+01	0.00E+00	1.24E+01
		I-131	<6.74E+01	0.00E+00	6.74E+01
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<8.15E+00	0.00E+00	8.15E+00
		La-140	<9.07E+04	0.00E+00	9.07E+04
		Ba-140	<1.05E+02	0.00E+00	1.05E+02
		Total-Gam	0.00E+00		
397733	11/24/2015 - 11/24/2015	H3SW	<-1.2E+02	0.00E+00	2.60E+02
398106	12/1/2015 - 12/1/2015	H3SW	<-1.2E+02	0.00E+00	2.63E+02
398521	12/9/2015 - 12/9/2015	H3SW	<1.44E+02	0.00E+00	2.53E+02
399023	12/15/2015 - 12/15/2015	H3SW	<-8.6E+01	0.00E+00	2.61E+02
399089	12/23/2015 - 12/23/2015	H3SW	<1.54E+02	0.00E+00	2.49E+02
399073	12/1/2015 - 12/29/2015	Mn-54	<5.89E+00	0.00E+00	5.89E+00
		Co-58	<9.60E+00	0.00E+00	9.60E+00
		Fe-59	<2.38E+01	0.00E+00	2.38E+01
		Co-60	<8.39E+00	0.00E+00	8.39E+00
		Zn-65	<2.11E+01	0.00E+00	2.11E+01
		Zr-95	<1.66E+01	0.00E+00	1.66E+01
		Nb-95	<1.39E+01	0.00E+00	1.39E+01
		I-131	<3.35E+01	0.00E+00	3.35E+01
		Cs-134	<7.86E+00	0.00E+00	7.86E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		La-140	<2.91E+03	0.00E+00	2.91E+03
		Ba-140	<6.49E+01	0.00E+00	6.49E+01
		Total-Gam	0.00E+00		
399147	12/29/2015 - 12/29/2015	H3SW	<9.62E+01	0.00E+00	2.58E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366910	1/6/2015 - 1/6/2015	H3SW	<-5.2E+01	0.00E+00	2.46E+02
367337	1/13/2015 - 1/13/2015	H3SW	<-5.2E+01	0.00E+00	2.56E+02
368903	1/19/2015 - 1/19/2015	H3SW	<-1.1E+02	0.00E+00	2.60E+02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369107	1/6/2015 - 1/26/2015	Mn-54	<6.48E+00	0.00E+00	6.48E+00
		Co-58	<7.64E+00	0.00E+00	7.64E+00
		Fe-59	<1.68E+01	0.00E+00	1.67E+01
		Co-60	<5.37E+00	0.00E+00	5.37E+00
		Zn-65	<2.06E+01	0.00E+00	2.06E+01
		Zr-95	<1.84E+01	0.00E+00	1.84E+01
		Nb-95	<1.44E+01	0.00E+00	1.44E+01
		I-131	<6.57E+01	0.00E+00	6.57E+01
		Cs-134	<6.55E+00	0.00E+00	6.55E+00
		Cs-137	<8.46E+00	0.00E+00	8.46E+00
		La-140	<2.27E+05	0.00E+00	2.27E+05
		Ba-140	<1.31E+02	0.00E+00	1.31E+02
		Total-Gam	0.00E+00		
369335	1/26/2015 - 1/26/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.31E+02	0.00E+00	2.43E+02
369645	2/3/2015 - 2/3/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<6.61E+01	0.00E+00	2.36E+02
370547	2/11/2015 - 2/11/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<7.87E+01	0.00E+00	2.54E+02
371518	2/18/2015 - 2/18/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.6E+02	0.00E+00	2.67E+02
372701	2/3/2015 - 2/25/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.52E+00	0.00E+00	8.52E+00
		Co-58	<8.82E+00	0.00E+00	8.82E+00
		Fe-59	<2.04E+01	0.00E+00	2.04E+01
		Co-60	<9.09E+00	0.00E+00	9.09E+00
		Zn-65	<1.40E+01	0.00E+00	1.40E+01
		Zr-95	<1.54E+01	0.00E+00	1.54E+01
		Nb-95	<1.66E+01	0.00E+00	1.66E+01
		I-131	<8.08E+01	0.00E+00	8.08E+01
		Cs-134	<7.24E+00	0.00E+00	7.24E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<3.74E+05	0.00E+00	3.74E+05
		Ba-140	<1.37E+02	0.00E+00	1.37E+02
Total-Gam	0.00E+00				
372243	2/25/2015 - 2/25/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<9.45E+01	0.00E+00	2.41E+02
372965	3/4/2015 - 3/4/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<5.08E+01	0.00E+00	2.45E+02
373988	3/10/2015 - 3/10/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<3.91E+01	0.00E+00	2.55E+02
374724	3/18/2015 - 3/18/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-2.2E+02	0.00E+00	2.57E+02
374875	3/24/2015 - 3/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-9.8E+01	0.00E+00	2.62E+02
375212	3/4/2015 - 3/31/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<6.79E+00	0.00E+00	6.79E+00
		Co-58	<9.86E+00	0.00E+00	9.86E+00
		Fe-59	<2.43E+01	0.00E+00	2.43E+01
		Co-60	<9.27E+00	0.00E+00	9.27E+00
		Zn-65	<1.21E+01	0.00E+00	1.21E+01
		Zr-95	<1.75E+01	0.00E+00	1.75E+01
		Nb-95	<1.20E+01	0.00E+00	1.20E+01
		I-131	<2.66E+01	0.00E+00	2.66E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
375212	3/4/2015 - 3/31/2015	Cs-134	<6.49E+00	0.00E+00	6.49E+00
		Cs-137	<9.84E+00	0.00E+00	9.84E+00
		La-140	<3.21E+03	0.00E+00	3.21E+03
		Ba-140	<6.45E+01	0.00E+00	6.45E+01
		Total-Gam	0.00E+00		
375198	3/31/2015 - 3/31/2015	H3SW	<8.38E+01	0.00E+00	2.50E+02
376609	4/7/2015 - 4/7/2015	H3SW	<0.00E+00	0.00E+00	2.51E+02
377305	4/15/2015 - 4/15/2015	H3SW	<7.02E+00	0.00E+00	2.47E+02
378188	4/21/2015 - 4/21/2015	H3SW	<2.03E+02	0.00E+00	2.46E+02
378790	4/7/2015 - 4/29/2015	Mn-54	<8.38E+00	0.00E+00	8.38E+00
		Co-58	<9.04E+00	0.00E+00	9.04E+00
		Fe-59	<2.50E+01	0.00E+00	2.50E+01
		Co-60	<3.43E+00	0.00E+00	3.43E+00
		Zn-65	<1.73E+01	0.00E+00	1.73E+01
		Zr-95	<1.63E+01	0.00E+00	1.63E+01
		Nb-95	<1.35E+01	0.00E+00	1.35E+01
		I-131	<3.57E+01	0.00E+00	3.57E+01
		Cs-134	<8.90E+00	0.00E+00	8.90E+00
		Cs-137	<7.82E+00	0.00E+00	7.83E+00
		La-140	<1.69E+04	0.00E+00	1.69E+04
		Ba-140	<7.15E+01	0.00E+00	7.15E+01
		Total-Gam	0.00E+00		
379084	4/29/2015 - 4/29/2015	H3SW	<2.13E+02	0.00E+00	2.55E+02
379342	5/6/2015 - 5/6/2015	H3SW	<-7.9E+01	0.00E+00	2.53E+02
379686	5/12/2015 - 5/12/2015	H3SW	<8.69E+01	0.00E+00	2.53E+02
380588	5/19/2015 - 5/19/2015	H3SW	<1.03E+02	0.00E+00	2.49E+02
380675	5/6/2015 - 5/26/2015	Mn-54	<7.64E+00	0.00E+00	7.65E+00
		Co-58	<9.81E+00	0.00E+00	9.82E+00
		Fe-59	<2.49E+01	0.00E+00	2.49E+01
		Co-60	<6.92E+00	0.00E+00	6.92E+00
		Zn-65	<1.93E+01	0.00E+00	1.93E+01
		Zr-95	<1.76E+01	0.00E+00	1.76E+01
		Nb-95	<1.24E+01	0.00E+00	1.24E+01
		I-131	<4.28E+01	0.00E+00	4.28E+01
		Cs-134	<7.42E+00	0.00E+00	7.42E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<1.78E+04	0.00E+00	1.78E+04
		Ba-140	<7.71E+01	0.00E+00	7.71E+01
		Total-Gam	0.00E+00		
380736	5/26/2015 - 5/26/2015	H3SW	<4.40E+01	0.00E+00	2.42E+02
381072	6/2/2015 - 6/2/2015	H3SW	<1.27E+02	0.00E+00	2.47E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 497 [ INDICATOR -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381447	6/9/2015 - 6/9/2015	H3SW	<4.12E+01	0.00E+00	2.44E+02
381763	6/16/2015 - 6/16/2015	H3SW	<-3.6E+01	0.00E+00	2.45E+02
381974	6/23/2015 - 6/23/2015	H3SW	<5.69E+01	0.00E+00	2.47E+02
382355	6/2/2015 - 6/30/2015	Mn-54	<8.98E+00	0.00E+00	8.98E+00
		Co-58	<9.88E+00	0.00E+00	9.88E+00
		Fe-59	<1.84E+01	0.00E+00	1.84E+01
		Co-60	<1.08E+01	0.00E+00	1.08E+01
		Zn-65	<1.71E+01	0.00E+00	1.71E+01
		Zr-95	<1.70E+01	0.00E+00	1.70E+01
		Nb-95	<1.01E+01	0.00E+00	1.01E+01
		I-131	<3.35E+01	0.00E+00	3.35E+01
		Cs-134	<8.68E+00	0.00E+00	8.68E+00
		Cs-137	<6.39E+00	0.00E+00	6.39E+00
		La-140	<4.41E+03	0.00E+00	4.41E+03
		Ba-140	<6.17E+01	0.00E+00	6.17E+01
		Total-Gam	0.00E+00		
382529	6/30/2015 - 6/30/2015	H3SW	<9.18E+01	0.00E+00	2.42E+02
383465	7/7/2015 - 7/7/2015	H3SW	<1.11E+02	0.00E+00	2.52E+02
383949	7/14/2015 - 7/14/2015	H3SW	<-1.1E+01	0.00E+00	2.55E+02
384777	7/22/2015 - 7/22/2015	H3SW	<-1.0E+02	0.00E+00	2.69E+02
384903	7/7/2015 - 7/28/2015	Mn-54	<7.90E+00	0.00E+00	7.91E+00
		Co-58	<7.23E+00	0.00E+00	7.23E+00
		Fe-59	<2.05E+01	0.00E+00	2.05E+01
		Co-60	<8.16E+00	0.00E+00	8.16E+00
		Zn-65	<2.17E+01	0.00E+00	2.17E+01
		Zr-95	<1.46E+01	0.00E+00	1.46E+01
		Nb-95	<1.02E+01	0.00E+00	1.02E+01
		I-131	<2.40E+01	0.00E+00	2.40E+01
		Cs-134	<6.47E+00	0.00E+00	6.47E+00
		Cs-137	<8.14E+00	0.00E+00	8.14E+00
		La-140	<1.03E+03	0.00E+00	1.03E+03
		Ba-140	<5.31E+01	0.00E+00	5.31E+01
		Total-Gam	0.00E+00		
384888	7/28/2015 - 7/28/2015	H3SW	<1.09E+02	0.00E+00	2.46E+02
386038	8/4/2015 - 8/4/2015	H3SW	<1.75E+01	0.00E+00	2.59E+02
386304	8/11/2015 - 8/11/2015	H3SW	<-1.0E+02	0.00E+00	2.57E+02
387259	8/18/2015 - 8/18/2015	H3SW	<3.62E+01	0.00E+00	2.55E+02
388466	8/4/2015 - 8/26/2015	Mn-54	<1.16E+01	0.00E+00	1.16E+01
		Co-58	<7.64E+00	0.00E+00	7.64E+00
		Fe-59	<2.43E+01	0.00E+00	2.43E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
388466	8/4/2015 - 8/26/2015	Co-60	<8.18E+00	0.00E+00	8.18E+00
		Zn-65	<2.36E+01	0.00E+00	2.36E+01
		Zr-95	<1.40E+01	0.00E+00	1.40E+01
		Nb-95	<1.06E+01	0.00E+00	1.06E+01
		I-131	<4.04E+01	0.00E+00	4.04E+01
		Cs-134	<7.87E+00	0.00E+00	7.87E+00
		Cs-137	<7.49E+00	0.00E+00	7.49E+00
		La-140	<1.03E+04	0.00E+00	1.03E+04
		Ba-140	<7.56E+01	0.00E+00	7.56E+01
		Total-Gam	0.00E+00		
388447	8/26/2015 - 8/26/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-3.3E+01	0.00E+00	2.52E+02
389513	9/1/2015 - 9/1/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<2.92E+01	0.00E+00	2.52E+02
390139	9/9/2015 - 9/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.9E+02	0.00E+00	2.58E+02
390871	9/15/2015 - 9/15/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-7.5E+01	0.00E+00	2.56E+02
392093	9/22/2015 - 9/22/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.39E+02	0.00E+00	2.71E+02
392609	9/1/2015 - 9/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.30E+00	0.00E+00	7.30E+00
		Co-58	<8.87E+00	0.00E+00	8.87E+00
		Fe-59	<1.89E+01	0.00E+00	1.89E+01
		Co-60	<9.08E+00	0.00E+00	9.08E+00
		Zn-65	<2.54E+01	0.00E+00	2.54E+01
		Zr-95	<1.46E+01	0.00E+00	1.46E+01
		Nb-95	<1.19E+01	0.00E+00	1.19E+01
		I-131	<5.33E+01	0.00E+00	5.33E+01
		Cs-134	<7.44E+00	0.00E+00	7.45E+00
		Cs-137	<8.75E+00	0.00E+00	8.75E+00
		La-140	<7.61E+04	0.00E+00	7.61E+04
		Ba-140	<6.43E+01	0.00E+00	6.43E+01
Total-Gam	0.00E+00				
392584	9/29/2015 - 9/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-7.9E+01	0.00E+00	2.50E+02
394948	10/7/2015 - 10/7/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<4.80E+01	0.00E+00	2.56E+02
395060	10/13/2015 - 10/13/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<2.02E+00	0.00E+00	2.73E+02
395214	10/20/2015 - 10/20/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-8.5E+01	0.00E+00	2.72E+02
395252	10/7/2015 - 10/27/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.38E+00	0.00E+00	8.38E+00
		Co-58	<9.83E+00	0.00E+00	9.83E+00
		Fe-59	<2.27E+01	0.00E+00	2.27E+01
		Co-60	<9.07E+00	0.00E+00	9.07E+00
		Zn-65	<2.03E+01	0.00E+00	2.03E+01
		Zr-95	<1.57E+01	0.00E+00	1.57E+01
		Nb-95	<8.23E+00	0.00E+00	8.23E+00
		I-131	<3.67E+01	0.00E+00	3.67E+01
		Cs-134	<6.69E+00	0.00E+00	6.69E+00
Cs-137	<1.04E+01	0.00E+00	1.04E+01		
La-140	<1.76E+04	0.00E+00	1.76E+04		



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395252	10/7/2015 - 10/27/2015	Ba-140	<7.98E+01	0.00E+00	7.98E+01
		Total-Gam	0.00E+00		
395442	10/27/2015 - 10/27/2015	H3SW	<-1.5E+01	0.00E+00	2.54E+02
395812	11/3/2015 - 11/3/2015	H3SW	<-1.8E+01	0.00E+00	2.52E+02
396085	11/11/2015 - 11/11/2015	H3SW	<5.47E+00	0.00E+00	2.54E+02
397555	11/17/2015 - 11/17/2015	H3SW	<6.39E+01	0.00E+00	2.52E+02
397753	11/3/2015 - 11/24/2015	Mn-54	<6.47E+00	0.00E+00	6.47E+00
		Co-58	<9.08E+00	0.00E+00	9.08E+00
		Fe-59	<1.97E+01	0.00E+00	1.97E+01
		Co-60	<6.20E+00	0.00E+00	6.20E+00
		Zn-65	<1.96E+01	0.00E+00	1.96E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<1.38E+01	0.00E+00	1.38E+01
		I-131	<6.66E+01	0.00E+00	6.66E+01
		Cs-134	<7.07E+00	0.00E+00	7.07E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<1.55E+05	0.00E+00	1.55E+05
		Ba-140	<1.14E+02	0.00E+00	1.14E+02
		Total-Gam	0.00E+00		
397734	11/24/2015 - 11/24/2015	H3SW	<-1.3E+02	0.00E+00	2.59E+02
398107	12/1/2015 - 12/1/2015	H3SW	<6.16E+01	0.00E+00	2.63E+02
398522	12/9/2015 - 12/9/2015	H3SW	<5.16E+01	0.00E+00	2.53E+02
399024	12/15/2015 - 12/15/2015	H3SW	<-1.3E+02	0.00E+00	2.62E+02
399090	12/23/2015 - 12/23/2015	H3SW	<8.24E+01	0.00E+00	2.51E+02
399074	12/1/2015 - 12/29/2015	Mn-54	<9.00E+00	0.00E+00	9.00E+00
		Co-58	<7.54E+00	0.00E+00	7.54E+00
		Fe-59	<2.19E+01	0.00E+00	2.19E+01
		Co-60	<4.84E+00	0.00E+00	4.84E+00
		Zn-65	<1.72E+01	0.00E+00	1.72E+01
		Zr-95	<1.72E+01	0.00E+00	1.72E+01
		Nb-95	<1.07E+01	0.00E+00	1.07E+01
		I-131	<3.22E+01	0.00E+00	3.22E+01
		Cs-134	<8.28E+00	0.00E+00	8.28E+00
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<6.80E+03	0.00E+00	6.80E+03
		Ba-140	<5.96E+01	0.00E+00	5.96E+01
		Total-Gam	0.00E+00		
399148	12/29/2015 - 12/29/2015	H3SW	<7.92E+01	0.00E+00	2.58E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 498 [ INDICATOR -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366911	1/6/2015 - 1/6/2015	H3SW	<1.2E+02	0.00E+00	2.47E+02
367338	1/13/2015 - 1/13/2015	H3SW	<2.76E+01	0.00E+00	2.55E+02
368904	1/19/2015 - 1/19/2015	H3SW	<6.7E+01	0.00E+00	2.61E+02
369108	1/6/2015 - 1/26/2015	Mn-54	<8.84E+00	0.00E+00	8.84E+00
		Co-58	<8.67E+00	0.00E+00	8.67E+00
		Fe-59	<2.71E+01	0.00E+00	2.71E+01
		Co-60	<8.41E+00	0.00E+00	8.41E+00
		Zn-65	<2.33E+01	0.00E+00	2.33E+01
		Zr-95	<2.07E+01	0.00E+00	2.07E+01
		Nb-95	<1.35E+01	0.00E+00	1.35E+01
		I-131	<6.73E+01	0.00E+00	6.73E+01
		Cs-134	<7.70E+00	0.00E+00	7.70E+00
		Cs-137	<5.05E+00	0.00E+00	5.05E+00
		La-140	<1.79E+05	0.00E+00	1.79E+05
		Ba-140	<9.28E+01	0.00E+00	9.28E+01
		Total-Gam	0.00E+00		
369337	1/26/2015 - 1/26/2015	H3SW	<1.12E+02	0.00E+00	2.42E+02
369646	2/3/2015 - 2/3/2015	H3SW	<1.06E+02	0.00E+00	2.37E+02
370548	2/11/2015 - 2/11/2015	H3SW	<1.05E+01	0.00E+00	2.54E+02
371519	2/18/2015 - 2/18/2015	H3SW	<2.2E+02	0.00E+00	2.65E+02
372702	2/3/2015 - 2/25/2015	Mn-54	<1.04E+01	0.00E+00	1.04E+01
		Co-58	<9.33E+00	0.00E+00	9.33E+00
		Fe-59	<2.19E+01	0.00E+00	2.19E+01
		Co-60	<5.95E+00	0.00E+00	5.95E+00
		Zn-65	<2.26E+01	0.00E+00	2.26E+01
		Zr-95	<2.06E+01	0.00E+00	2.06E+01
		Nb-95	<1.46E+01	0.00E+00	1.46E+01
		I-131	<7.46E+01	0.00E+00	7.46E+01
		Cs-134	<8.15E+00	0.00E+00	8.15E+00
		Cs-137	<7.83E+00	0.00E+00	7.83E+00
		La-140	<4.86E+05	0.00E+00	4.86E+05
		Ba-140	<1.17E+02	0.00E+00	1.17E+02
		Total-Gam	0.00E+00		
372244	2/25/2015 - 2/25/2015	H3SW	<2.26E+02	0.00E+00	2.41E+02
372966	3/4/2015 - 3/4/2015	H3SW	<1.2E+01	0.00E+00	2.45E+02
373990	3/10/2015 - 3/10/2015	H3SW	<7.3E+01	0.00E+00	2.56E+02
374725	3/18/2015 - 3/18/2015	H3SW	<1.9E+02	0.00E+00	2.57E+02
374876	3/24/2015 - 3/24/2015	H3SW	<1.9E+01	0.00E+00	2.60E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
375213	3/4/2015 - 3/31/2015	Mn-54	<9.90E+00	0.00E+00	9.90E+00
		Co-58	<6.98E+00	0.00E+00	6.98E+00
		Fe-59	<1.84E+01	0.00E+00	1.84E+01
		Co-60	<5.93E+00	0.00E+00	5.93E+00
		Zn-65	<1.71E+01	0.00E+00	1.71E+01
		Zr-95	<1.58E+01	0.00E+00	1.58E+01
		Nb-95	<1.09E+01	0.00E+00	1.09E+01
		I-131	<2.98E+01	0.00E+00	2.98E+01
		Cs-134	<8.88E+00	0.00E+00	8.88E+00
		Cs-137	<9.84E+00	0.00E+00	9.84E+00
		La-140	<4.29E+03	0.00E+00	4.29E+03
		Ba-140	<7.24E+01	0.00E+00	7.24E+01
		Total-Gam	0.00E+00		
375199	3/31/2015 - 3/31/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<3.91E+01	0.00E+00	2.50E+02
376610	4/7/2015 - 4/7/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-3.0E+01	0.00E+00	2.51E+02
377306	4/15/2015 - 4/15/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<4.39E+01	0.00E+00	2.47E+02
378775	4/21/2015 - 4/21/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.47E+02	0.00E+00	2.47E+02
378791	4/7/2015 - 4/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.47E+00	0.00E+00	8.47E+00
		Co-58	<7.00E+00	0.00E+00	7.00E+00
		Fe-59	<2.20E+01	0.00E+00	2.20E+01
		Co-60	<8.20E+00	0.00E+00	8.20E+00
		Zn-65	<2.40E+01	0.00E+00	2.40E+01
		Zr-95	<1.72E+01	0.00E+00	1.72E+01
		Nb-95	<1.37E+01	0.00E+00	1.37E+01
		I-131	<7.20E+01	0.00E+00	7.20E+01
		Cs-134	<7.55E+00	0.00E+00	7.55E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<9.66E+04	0.00E+00	9.66E+04
		Ba-140	<9.56E+01	0.00E+00	9.56E+01
Total-Gam	0.00E+00				
379085	4/29/2015 - 4/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.31E+02	0.00E+00	2.57E+02
379343	5/6/2015 - 5/6/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<5.32E+01	0.00E+00	2.54E+02
379687	5/12/2015 - 5/12/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<4.43E+01	0.00E+00	2.53E+02
380589	5/19/2015 - 5/19/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<7.68E+01	0.00E+00	2.50E+02
380676	5/6/2015 - 5/26/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.05E+01	0.00E+00	1.05E+01
		Co-58	<9.04E+00	0.00E+00	9.04E+00
		Fe-59	<2.16E+01	0.00E+00	2.16E+01
		Co-60	<8.39E+00	0.00E+00	8.39E+00
		Zn-65	<1.73E+01	0.00E+00	1.73E+01
		Zr-95	<1.41E+01	0.00E+00	1.41E+01
		Nb-95	<1.39E+01	0.00E+00	1.39E+01
		I-131	<4.20E+01	0.00E+00	4.20E+01
		Cs-134	<7.97E+00	0.00E+00	7.97E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<2.00E+04	0.00E+00	2.00E+04



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380676	5/6/2015 - 5/26/2015	Ba-140	<6.71E+01	0.00E+00	6.71E+01
		Total-Gam	0.00E+00		
380737	5/26/2015 - 5/26/2015	H3SW	<1.57E+02	0.00E+00	2.43E+02
381073	6/2/2015 - 6/2/2015	H3SW	<1.43E+01	0.00E+00	2.46E+02
381448	6/9/2015 - 6/9/2015	H3SW	<1.68E+02	0.00E+00	2.47E+02
381764	6/16/2015 - 6/16/2015	H3SW	<2.50E+01	0.00E+00	2.46E+02
381975	6/23/2015 - 6/23/2015	H3SW	<5.3E+00	0.00E+00	2.47E+02
382356	6/2/2015 - 6/30/2015	Mn-54	<1.00E+01	0.00E+00	1.00E+01
		Co-58	<1.04E+01	0.00E+00	1.04E+01
		Fe-59	<1.41E+01	0.00E+00	1.41E+01
		Co-60	<8.75E+00	0.00E+00	8.75E+00
		Zn-65	<2.13E+01	0.00E+00	2.13E+01
		Zr-95	<1.36E+01	0.00E+00	1.36E+01
		Nb-95	<1.02E+01	0.00E+00	1.02E+01
		I-131	<5.02E+01	0.00E+00	5.02E+01
		Cs-134	<6.52E+00	0.00E+00	6.52E+00
		Cs-137	<9.59E+00	0.00E+00	9.59E+00
		La-140	<5.02E+04	0.00E+00	5.02E+04
		Ba-140	<7.70E+01	0.00E+00	7.70E+01
		Total-Gam	0.00E+00		
382530	6/30/2015 - 6/30/2015	H3SW	<1.09E+02	0.00E+00	2.41E+02
383466	7/7/2015 - 7/7/2015	H3SW	<1.1E+01	0.00E+00	2.53E+02
383950	7/14/2015 - 7/14/2015	H3SW	<2.65E+01	0.00E+00	2.55E+02
384778	7/22/2015 - 7/22/2015	H3SW	<7.1E+01	0.00E+00	2.69E+02
384904	7/7/2015 - 7/28/2015	Mn-54	<7.62E+00	0.00E+00	7.62E+00
		Co-58	<8.89E+00	0.00E+00	8.89E+00
		Fe-59	<1.88E+01	0.00E+00	1.88E+01
		Co-60	<7.66E+00	0.00E+00	7.66E+00
		Zn-65	<2.02E+01	0.00E+00	2.02E+01
		Zr-95	<1.91E+01	0.00E+00	1.91E+01
		Nb-95	<1.20E+01	0.00E+00	1.20E+01
		I-131	<3.42E+01	0.00E+00	3.42E+01
		Cs-134	<7.41E+00	0.00E+00	7.41E+00
		Cs-137	<8.75E+00	0.00E+00	8.75E+00
		La-140	<7.49E+03	0.00E+00	7.49E+03
		Ba-140	<6.89E+01	0.00E+00	6.89E+01
		Total-Gam	0.00E+00		
384889	7/28/2015 - 7/28/2015	H3SW	<7.56E+01	0.00E+00	2.45E+02
386039	8/4/2015 - 8/4/2015	H3SW	<1.63E+02	0.00E+00	2.59E+02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
386305	8/11/2015 - 8/11/2015	H3SW	<-8.7E+01	0.00E+00	2.57E+02
387260	8/18/2015 - 8/18/2015	H3SW	<1.12E+02	0.00E+00	2.54E+02
388467	8/4/2015 - 8/26/2015	Mn-54	<7.35E+00	0.00E+00	7.35E+00
		Co-58	<5.77E+00	0.00E+00	5.77E+00
		Fe-59	<1.68E+01	0.00E+00	1.68E+01
		Co-60	<8.77E+00	0.00E+00	8.77E+00
		Zn-65	<1.65E+01	0.00E+00	1.65E+01
		Zr-95	<1.33E+01	0.00E+00	1.33E+01
		Nb-95	<9.23E+00	0.00E+00	9.23E+00
		I-131	<6.27E+01	0.00E+00	6.27E+01
		Cs-134	<8.14E+00	0.00E+00	8.14E+00
		Cs-137	<8.46E+00	0.00E+00	8.46E+00
		La-140	<1.73E+05	0.00E+00	1.73E+05
		Ba-140	<1.04E+02	0.00E+00	1.04E+02
		Total-Gam	0.00E+00		
388448	8/26/2015 - 8/26/2015	H3SW	<1.84E+00	0.00E+00	2.51E+02
389514	9/1/2015 - 9/1/2015	H3SW	<1.07E+02	0.00E+00	2.51E+02
390142	9/9/2015 - 9/9/2015	H3SW	<-1.3E+01	0.00E+00	2.58E+02
390872	9/15/2015 - 9/15/2015	H3SW	<6.61E+01	0.00E+00	2.56E+02
392094	9/22/2015 - 9/22/2015	H3SW	<5.28E+01	0.00E+00	2.69E+02
392611	9/1/2015 - 9/29/2015	Mn-54	<8.07E+00	0.00E+00	8.07E+00
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<1.76E+01	0.00E+00	1.76E+01
		Co-60	<9.29E+00	0.00E+00	9.29E+00
		Zn-65	<1.63E+01	0.00E+00	1.63E+01
		Zr-95	<1.82E+01	0.00E+00	1.82E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<5.75E+01	0.00E+00	5.75E+01
		Cs-134	<6.96E+00	0.00E+00	6.97E+00
		Cs-137	<8.45E+00	0.00E+00	8.45E+00
		La-140	<7.51E+04	0.00E+00	7.51E+04
		Ba-140	<8.91E+01	0.00E+00	8.91E+01
		Total-Gam	0.00E+00		
392586	9/29/2015 - 9/29/2015	H3SW	<4.21E+01	0.00E+00	2.49E+02
394949	10/7/2015 - 10/7/2015	H3SW	<-1.0E+02	0.00E+00	2.56E+02
395061	10/13/2015 - 10/13/2015	H3SW	<-7.9E+01	0.00E+00	2.73E+02
395215	10/20/2015 - 10/20/2015	H3SW	<-2.0E+01	0.00E+00	2.72E+02
395253	10/7/2015 - 10/27/2015	Mn-54	<1.03E+01	0.00E+00	1.03E+01
		Co-58	<7.22E+00	0.00E+00	7.22E+00
		Fe-59	<1.94E+01	0.00E+00	1.94E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 498 [ INDICATOR -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395253	10/7/2015 - 10/27/2015	Co-60	<6.86E+00	0.00E+00	6.85E+00
		Zn-65	<1.94E+01	0.00E+00	1.94E+01
		Zr-95	<1.25E+01	0.00E+00	1.25E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<4.02E+01	0.00E+00	4.02E+01
		Cs-134	<7.88E+00	0.00E+00	7.88E+00
		Cs-137	<7.82E+00	0.00E+00	7.83E+00
		La-140	<1.41E+04	0.00E+00	1.41E+04
		Ba-140	<6.78E+01	0.00E+00	6.78E+01
		Total-Gam	0.00E+00		
395443	10/27/2015 - 10/27/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-2.2E+01	0.00E+00	2.54E+02
395813	11/3/2015 - 11/3/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<6.82E+01	0.00E+00	2.53E+02
396086	11/11/2015 - 11/11/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<0.00E+00	0.00E+00	2.55E+02
397556	11/17/2015 - 11/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.08E+02	0.00E+00	2.52E+02
397754	11/3/2015 - 11/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.74E+00	0.00E+00	7.74E+00
		Co-58	<1.11E+01	0.00E+00	1.11E+01
		Fe-59	<2.10E+01	0.00E+00	2.10E+01
		Co-60	<6.93E+00	0.00E+00	6.93E+00
		Zn-65	<2.48E+01	0.00E+00	2.48E+01
		Zr-95	<1.73E+01	0.00E+00	1.73E+01
		Nb-95	<1.09E+01	0.00E+00	1.09E+01
		I-131	<6.62E+01	0.00E+00	6.62E+01
		Cs-134	<7.92E+00	0.00E+00	7.92E+00
		Cs-137	<7.50E+00	0.00E+00	7.49E+00
		La-140	<2.04E+05	0.00E+00	2.04E+05
		Ba-140	<9.32E+01	0.00E+00	9.32E+01
		Total-Gam	0.00E+00		
397735	11/24/2015 - 11/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-2.6E+01	0.00E+00	2.59E+02
398108	12/1/2015 - 12/1/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.86E+00	0.00E+00	2.62E+02
398523	12/9/2015 - 12/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.1E+01	0.00E+00	2.53E+02
399025	12/15/2015 - 12/15/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.3E+02	0.00E+00	2.60E+02
399091	12/23/2015 - 12/23/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<9.80E+01	0.00E+00	2.54E+02
399075	12/1/2015 - 12/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.68E+00	0.00E+00	8.68E+00
		Co-58	<9.99E+00	0.00E+00	9.99E+00
		Fe-59	<2.21E+01	0.00E+00	2.21E+01
		Co-60	<6.91E+00	0.00E+00	6.91E+00
		Zn-65	<1.49E+01	0.00E+00	1.49E+01
		Zr-95	<1.69E+01	0.00E+00	1.69E+01
		Nb-95	<9.88E+00	0.00E+00	9.88E+00
		I-131	<3.47E+01	0.00E+00	3.47E+01
		Cs-134	<9.45E+00	0.00E+00	9.45E+00
		Cs-137	<7.49E+00	0.00E+00	7.49E+00
		La-140	<9.11E+03	0.00E+00	9.11E+03



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399075	12/1/2015 - 12/29/2015	Ba-140	<7.44E+01	0.00E+00	7.44E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399149	12/29/2015 - 12/29/2015	H3SW	<5.66E+00	0.00E+00	2.59E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366912	1/6/2015 - 1/6/2015	H3SW	<-3.8E+01	0.00E+00	2.48E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
367339	1/13/2015 - 1/13/2015	H3SW	<-2.5E+02	0.00E+00	2.55E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
368905	1/19/2015 - 1/19/2015	H3SW	<-2.2E+02	0.00E+00	2.60E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369109	1/6/2015 - 1/26/2015	Mn-54	<7.35E+00	0.00E+00	7.35E+00
		Co-58	<7.08E+00	0.00E+00	7.08E+00
		Fe-59	<1.58E+01	0.00E+00	1.58E+01
		Co-60	<8.41E+00	0.00E+00	8.41E+00
		Zn-65	<1.87E+01	0.00E+00	1.87E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<1.68E+01	0.00E+00	1.68E+01
		I-131	<6.64E+01	0.00E+00	6.64E+01
		Cs-134	<8.95E+00	0.00E+00	8.95E+00
		Cs-137	<1.13E+01	0.00E+00	1.13E+01
		La-140	<2.38E+05	0.00E+00	2.38E+05
		Ba-140	<1.22E+02	0.00E+00	1.22E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369338	1/26/2015 - 1/26/2015	H3SW	<1.65E+02	0.00E+00	2.41E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
369647	2/3/2015 - 2/3/2015	H3SW	<1.14E+02	0.00E+00	2.36E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
370550	2/11/2015 - 2/11/2015	H3SW	<-9.8E+01	0.00E+00	2.54E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
371520	2/18/2015 - 2/18/2015	H3SW	<-2.2E+02	0.00E+00	2.65E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
372703	2/3/2015 - 2/25/2015	Mn-54	<9.27E+00	0.00E+00	9.27E+00
		Co-58	<8.02E+00	0.00E+00	8.02E+00
		Fe-59	<2.69E+01	0.00E+00	2.69E+01
		Co-60	<9.10E+00	0.00E+00	9.10E+00
		Zn-65	<2.09E+01	0.00E+00	2.09E+01
		Zr-95	<2.25E+01	0.00E+00	2.25E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<1.12E+02	0.00E+00	1.12E+02
		Cs-134	<9.56E+00	0.00E+00	9.56E+00
		Cs-137	<9.32E+00	0.00E+00	9.32E+00
		La-140	<1.55E+06	0.00E+00	1.55E+06
		Ba-140	<1.50E+02	0.00E+00	1.50E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
372245	2/25/2015 - 2/25/2015	H3SW	<2.44E+01	0.00E+00	2.39E+02

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
372967	3/4/2015 - 3/4/2015	H3SW	<3.88E+01	0.00E+00	2.47E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID	Sample Dates	Nuclide	Activity	2 Sigma Error	LLD
373991	3/10/2015 - 3/10/2015				
		H3SW	<-7.3E+01	0.00E+00	2.56E+02
374726	3/18/2015 - 3/18/2015				
		H3SW	<-1.8E+02	0.00E+00	2.57E+02
374877	3/24/2015 - 3/24/2015				
		H3SW	<-6.3E+01	0.00E+00	2.59E+02
375214	3/4/2015 - 3/31/2015				
		Mn-54	<8.41E+00	0.00E+00	8.41E+00
		Co-58	<9.98E+00	0.00E+00	9.98E+00
		Fe-59	<2.43E+01	0.00E+00	2.43E+01
		Co-60	<7.67E+00	0.00E+00	7.67E+00
		Zn-65	<2.38E+01	0.00E+00	2.38E+01
		Zr-95	<1.66E+01	0.00E+00	1.66E+01
		Nb-95	<1.40E+01	0.00E+00	1.40E+01
		I-131	<4.95E+01	0.00E+00	4.95E+01
		Cs-134	<8.10E+00	0.00E+00	8.10E+00
		Cs-137	<9.85E+00	0.00E+00	9.85E+00
		La-140	<3.27E+04	0.00E+00	3.27E+04
		Ba-140	<9.26E+01	0.00E+00	9.26E+01
	Total-Gam	0.00E+00			
375200	3/31/2015 - 3/31/2015				
		H3SW	<-1.6E+01	0.00E+00	2.49E+02
376611	4/7/2015 - 4/7/2015				
		H3SW	<-9.3E+00	0.00E+00	2.51E+02
377307	4/15/2015 - 4/15/2015				
		H3SW	<-1.1E+02	0.00E+00	2.47E+02
378777	4/21/2015 - 4/21/2015				
		H3SW	<1.09E+02	0.00E+00	2.46E+02
379086	4/29/2015 - 4/29/2015				
		H3SW	<1.80E+02	0.00E+00	2.57E+02
378792	4/7/2015 - 4/29/2015				
		Mn-54	<9.70E+00	0.00E+00	9.70E+00
		Co-58	<9.13E+00	0.00E+00	9.13E+00
		Fe-59	<1.39E+01	0.00E+00	1.39E+01
		Co-60	<8.19E+00	0.00E+00	8.19E+00
		Zn-65	<2.21E+01	0.00E+00	2.21E+01
		Zr-95	<1.26E+01	0.00E+00	1.26E+01
		Nb-95	<1.19E+01	0.00E+00	1.19E+01
		I-131	<4.13E+01	0.00E+00	4.13E+01
		Cs-134	<7.52E+00	0.00E+00	7.53E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<3.30E+04	0.00E+00	3.30E+04
		Ba-140	<7.11E+01	0.00E+00	7.11E+01
	Total-Gam	0.00E+00			
379344	5/6/2015 - 5/6/2015				
		H3SW	<-9.5E+01	0.00E+00	2.53E+02
379688	5/12/2015 - 5/12/2015				
		H3SW	<-1.4E+02	0.00E+00	2.52E+02
380590	5/19/2015 - 5/19/2015				
		H3SW	<1.77E+02	0.00E+00	2.48E+02
380677	5/6/2015 - 5/26/2015				
		Mn-54	<8.04E+00	0.00E+00	8.04E+00
		Co-58	<9.53E+00	0.00E+00	9.53E+00
		Fe-59	<2.40E+01	0.00E+00	2.40E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l  
 Sample Point 499 [ CONTROL - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380677	5/6/2015 - 5/26/2015	Co-60	<9.07E+00	0.00E+00	9.07E+00
		Zn-65	<2.03E+01	0.00E+00	2.03E+01
		Zr-95	<1.74E+01	0.00E+00	1.74E+01
		Nb-95	<1.14E+01	0.00E+00	1.14E+01
		I-131	<3.88E+01	0.00E+00	3.88E+01
		Cs-134	<9.29E+00	0.00E+00	9.29E+00
		Cs-137	<9.31E+00	0.00E+00	9.31E+00
		La-140	<2.76E+04	0.00E+00	2.76E+04
		Ba-140	<8.37E+01	0.00E+00	8.37E+01
		Total-Gam	0.00E+00		
380738	5/26/2015 - 5/26/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-3.7E+01	0.00E+00	2.42E+02
381074	6/2/2015 - 6/2/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<2.31E+01	0.00E+00	2.45E+02
381449	6/9/2015 - 6/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-3.6E+01	0.00E+00	2.47E+02
381765	6/16/2015 - 6/16/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<1.96E+01	0.00E+00	2.45E+02
381976	6/23/2015 - 6/23/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-3.9E+01	0.00E+00	2.47E+02
382357	6/2/2015 - 6/30/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.66E+00	0.00E+00	8.66E+00
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<2.26E+01	0.00E+00	2.26E+01
		Co-60	<7.66E+00	0.00E+00	7.65E+00
		Zn-65	<1.92E+01	0.00E+00	1.92E+01
		Zr-95	<1.76E+01	0.00E+00	1.76E+01
		Nb-95	<9.69E+00	0.00E+00	9.69E+00
		I-131	<3.41E+01	0.00E+00	3.41E+01
		Cs-134	<8.38E+00	0.00E+00	8.38E+00
		Cs-137	<9.03E+00	0.00E+00	9.03E+00
		La-140	<5.26E+03	0.00E+00	5.26E+03
		Ba-140	<6.06E+01	0.00E+00	6.06E+01
Total-Gam	0.00E+00				
382531	6/30/2015 - 6/30/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<2.45E+01	0.00E+00	2.53E+02
383467	7/7/2015 - 7/7/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-4.1E+01	0.00E+00	2.52E+02
383951	7/14/2015 - 7/14/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<5.31E+01	0.00E+00	2.56E+02
384779	7/22/2015 - 7/22/2015	Nuclide	Activity	2 Sigma Error	LLD
		H3SW	<-1.8E+02	0.00E+00	2.71E+02
384905	7/7/2015 - 7/28/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<8.61E+00	0.00E+00	8.61E+00
		Co-58	<8.95E+00	0.00E+00	8.95E+00
		Fe-59	<1.99E+01	0.00E+00	1.99E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<2.17E+01	0.00E+00	2.17E+01
		Zr-95	<1.72E+01	0.00E+00	1.72E+01
		Nb-95	<1.04E+01	0.00E+00	1.04E+01
		I-131	<2.62E+01	0.00E+00	2.62E+01
		Cs-134	<8.26E+00	0.00E+00	8.26E+00
		Cs-137	<9.31E+00	0.00E+00	9.31E+00
		La-140	<1.92E+03	0.00E+00	1.92E+03



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384905	7/7/2015 - 7/28/2015	Ba-140	<4.46E+01	0.00E+00	4.46E+01
		Total-Gam	0.00E+00		
384890	7/28/2015 - 7/28/2015	H3SW	<5.58E+01	0.00E+00	2.45E+02
386040	8/4/2015 - 8/4/2015	H3SW	<6.97E+01	0.00E+00	2.58E+02
386306	8/11/2015 - 8/11/2015	H3SW	<8.5E+01	0.00E+00	2.57E+02
387261	8/18/2015 - 8/18/2015	H3SW	<4.5E+01	0.00E+00	2.55E+02
388468	8/4/2015 - 8/26/2015	Mn-54	<9.80E+00	0.00E+00	9.80E+00
		Co-58	<4.09E+00	0.00E+00	4.09E+00
		Fe-59	<1.84E+01	0.00E+00	1.84E+01
		Co-60	<7.68E+00	0.00E+00	7.68E+00
		Zn-65	<1.97E+01	0.00E+00	1.97E+01
		Zr-95	<2.13E+01	0.00E+00	2.13E+01
		Nb-95	<1.85E+01	0.00E+00	1.85E+01
		I-131	<6.42E+01	0.00E+00	6.42E+01
		Cs-134	<1.02E+01	0.00E+00	1.02E+01
		Cs-137	<9.32E+00	0.00E+00	9.32E+00
		La-140	<2.69E+05	0.00E+00	2.69E+05
		Ba-140	<9.59E+01	0.00E+00	9.59E+01
		Total-Gam	0.00E+00		
388449	8/26/2015 - 8/26/2015	H3SW	<3.66E+01	0.00E+00	2.50E+02
389515	9/1/2015 - 9/1/2015	H3SW	<2.55E+01	0.00E+00	2.51E+02
390143	9/9/2015 - 9/9/2015	H3SW	<1.2E+02	0.00E+00	2.54E+02
390873	9/15/2015 - 9/15/2015	H3SW	<6.4E+01	0.00E+00	2.54E+02
392095	9/22/2015 - 9/22/2015	H3SW	<4.9E+01	0.00E+00	2.69E+02
392615	9/1/2015 - 9/29/2015	Mn-54	<8.09E+00	0.00E+00	8.09E+00
		Co-58	<9.37E+00	0.00E+00	9.37E+00
		Fe-59	<2.64E+01	0.00E+00	2.64E+01
		Co-60	<8.19E+00	0.00E+00	8.19E+00
		Zn-65	<2.31E+01	0.00E+00	2.31E+01
		Zr-95	<1.63E+01	0.00E+00	1.63E+01
		Nb-95	<1.29E+01	0.00E+00	1.29E+01
		I-131	<5.67E+01	0.00E+00	5.67E+01
		Cs-134	<7.54E+00	0.00E+00	7.54E+00
		Cs-137	<8.15E+00	0.00E+00	8.15E+00
		La-140	<1.03E+05	0.00E+00	1.03E+05
		Ba-140	<9.91E+01	0.00E+00	9.91E+01
		Total-Gam	0.00E+00		
392590	9/29/2015 - 9/29/2015	H3SW	<1.64E+01	0.00E+00	2.48E+02
394950	10/7/2015 - 10/7/2015	H3SW	<1.5E+01	0.00E+00	2.56E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

Media Type: SURFACE WATER Concentration (Activity): pCi/l  
 Sample Point 499 [ CONTROL - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395062	10/13/2015 - 10/13/2015	H3SW	<-1.0E+02	0.00E+00	2.74E+02
395216	10/20/2015 - 10/20/2015	H3SW	<-1.8E+02	0.00E+00	2.72E+02
395254	10/7/2015 - 10/27/2015	Mn-54	<7.66E+00	0.00E+00	7.66E+00
		Co-58	<1.06E+01	0.00E+00	1.06E+01
		Fe-59	<2.07E+01	0.00E+00	2.07E+01
		Co-60	<9.70E+00	0.00E+00	9.70E+00
		Zn-65	<2.21E+01	0.00E+00	2.21E+01
		Zr-95	<1.84E+01	0.00E+00	1.84E+01
		Nb-95	<1.48E+01	0.00E+00	1.48E+01
		I-131	<4.15E+01	0.00E+00	4.15E+01
		Cs-134	<8.10E+00	0.00E+00	8.10E+00
		Cs-137	<9.04E+00	0.00E+00	9.04E+00
		La-140	<1.45E+04	0.00E+00	1.45E+04
		Ba-140	<7.44E+01	0.00E+00	7.44E+01
		Total-Gam	0.00E+00		
395444	10/27/2015 - 10/27/2015	H3SW	<-1.2E+02	0.00E+00	2.54E+02
395814	11/3/2015 - 11/3/2015	H3SW	<2.59E+01	0.00E+00	2.54E+02
396087	11/11/2015 - 11/11/2015	H3SW	<-1.5E+02	0.00E+00	2.55E+02
397557	11/17/2015 - 11/17/2015	H3SW	<7.28E+01	0.00E+00	2.51E+02
397755	11/3/2015 - 11/24/2015	Mn-54	<7.74E+00	0.00E+00	7.74E+00
		Co-58	<9.96E+00	0.00E+00	9.96E+00
		Fe-59	<2.35E+01	0.00E+00	2.35E+01
		Co-60	<9.30E+00	0.00E+00	9.30E+00
		Zn-65	<2.06E+01	0.00E+00	2.06E+01
		Zr-95	<1.50E+01	0.00E+00	1.50E+01
		Nb-95	<1.43E+01	0.00E+00	1.43E+01
		I-131	<6.45E+01	0.00E+00	6.45E+01
		Cs-134	<8.34E+00	0.00E+00	8.34E+00
		Cs-137	<8.75E+00	0.00E+00	8.75E+00
		La-140	<1.46E+05	0.00E+00	1.46E+05
		Ba-140	<9.62E+01	0.00E+00	9.62E+01
		Total-Gam	0.00E+00		
397736	11/24/2015 - 11/24/2015	H3SW	<-3.3E+01	0.00E+00	2.58E+02
398109	12/1/2015 - 12/1/2015	H3SW	<-1.1E+02	0.00E+00	2.61E+02
398524	12/9/2015 - 12/9/2015	H3SW	<1.48E+01	0.00E+00	2.53E+02
399026	12/15/2015 - 12/15/2015	H3SW	<-1.4E+02	0.00E+00	2.60E+02
399092	12/23/2015 - 12/23/2015	H3SW	<5.34E+01	0.00E+00	2.53E+02
399076	12/1/2015 - 12/29/2015	Mn-54	<6.88E+00	0.00E+00	6.88E+00
		Co-58	<9.68E+00	0.00E+00	9.68E+00
		Fe-59	<2.57E+01	0.00E+00	2.57E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399076	12/1/2015 - 12/29/2015	Co-60	<6.19E+00	0.00E+00	6.19E+00
		Zn-65	<1.74E+01	0.00E+00	1.74E+01
		Zr-95	<1.75E+01	0.00E+00	1.75E+01
		Nb-95	<1.57E+01	0.00E+00	1.57E+01
		I-131	<5.02E+01	0.00E+00	5.02E+01
		Cs-134	<6.53E+00	0.00E+00	6.53E+00
		Cs-137	<9.85E+00	0.00E+00	9.85E+00
		La-140	<6.20E+04	0.00E+00	6.20E+04
		Ba-140	<9.97E+01	0.00E+00	9.97E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399150	12/29/2015 - 12/29/2015	H3SW	<-2.1E+01	0.00E+00	2.59E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366960	1/6/2015 - 1/6/2015	H3SW	7.09E+02	1.57E+02	2.46E+02
367411	1/13/2015 - 1/13/2015	H3SW	2.02E+03	1.83E+02	2.51E+02
369103	1/19/2015 - 1/19/2015	H3SW	4.48E+02	1.56E+02	2.51E+02
369346	1/26/2015 - 1/26/2015	H3SW	1.70E+03	1.75E+02	2.48E+02
369913	2/3/2015 - 2/3/2015	H3SW	5.29E+02	1.50E+02	2.38E+02
370706	2/11/2015 - 2/11/2015	H3SW	7.48E+02	1.61E+02	2.50E+02
371705	2/18/2015 - 2/18/2015	H3SW	3.25E+03	2.04E+02	2.61E+02
372252	2/25/2015 - 2/25/2015	H3SW	1.62E+03	1.71E+02	2.41E+02
372974	3/4/2015 - 3/4/2015	H3SW	5.44E+03	2.31E+02	2.47E+02
373998	3/10/2015 - 3/10/2015	H3SW	8.53E+02	1.58E+02	2.42E+02
374733	3/18/2015 - 3/18/2015	H3SW	<8.05E+01	0.00E+00	2.50E+02
374884	3/24/2015 - 3/24/2015	H3SW	3.51E+02	1.51E+02	2.47E+02
375207	3/31/2015 - 3/31/2015	H3SW	1.11E+03	1.71E+02	2.56E+02
376937	4/7/2015 - 4/7/2015	H3SW	3.50E+02	1.50E+02	2.45E+02
377582	4/15/2015 - 4/15/2015	H3SW	1.10E+03	1.68E+02	2.53E+02
378785	4/21/2015 - 4/21/2015	H3SW	3.19E+02	1.49E+02	2.43E+02
379094	4/29/2015 - 4/29/2015	H3SW	<1.79E+02	0.00E+00	2.54E+02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
379351	5/6/2015 - 5/6/2015	H3SW	4.37E+02	1.54E+02	2.48E+02
379712	5/12/2015 - 5/12/2015	H3SW	1.13E+03	1.68E+02	2.52E+02
380634	5/19/2015 - 5/19/2015	H3SW	4.60E+02	1.52E+02	2.44E+02
380753	5/26/2015 - 5/26/2015	H3SW	2.30E+03	1.84E+02	2.46E+02
381081	6/2/2015 - 6/2/2015	H3SW	1.28E+03	1.68E+02	2.48E+02
381511	6/9/2015 - 6/9/2015	H3SW	1.00E+03	1.64E+02	2.48E+02
381967	6/16/2015 - 6/16/2015	H3SW	<1.98E+02	0.00E+00	2.54E+02
382069	6/23/2015 - 6/23/2015	H3SW	2.53E+02	1.46E+02	2.40E+02
382829	6/30/2015 - 6/30/2015	H3SW	2.63E+02	1.53E+02	2.52E+02
383474	7/7/2015 - 7/7/2015	H3SW	<1.57E+02	0.00E+00	2.48E+02
383957	7/14/2015 - 7/14/2015	H3SW	<-5.1E+01	0.00E+00	2.63E+02
384786	7/22/2015 - 7/22/2015	H3SW	<-5.8E+01	0.00E+00	2.70E+02
384897	7/28/2015 - 7/28/2015	H3SW	<2.00E+02	0.00E+00	2.55E+02
386047	8/4/2015 - 8/4/2015	H3SW	<8.90E+01	0.00E+00	2.65E+02
386313	8/11/2015 - 8/11/2015	H3SW	6.96E+02	1.59E+02	2.48E+02
387330	8/18/2015 - 8/18/2015	H3SW	<1.70E+02	0.00E+00	2.47E+02
388457	8/26/2015 - 8/26/2015	H3SW	<8.91E+01	0.00E+00	2.55E+02
389716	9/1/2015 - 9/1/2015	H3SW	<-6.5E+01	0.00E+00	2.60E+02
390739	9/9/2015 - 9/9/2015	H3SW	<-7.2E+01	0.00E+00	2.77E+02
390880	9/15/2015 - 9/15/2015	H3SW	<8.55E+01	0.00E+00	2.57E+02
392728	9/22/2015 - 9/22/2015	H3SW	<1.59E+02	0.00E+00	2.55E+02
393188	9/29/2015 - 9/29/2015	H3SW	<2.20E+02	0.00E+00	2.54E+02
394957	10/7/2015 - 10/7/2015	H3SW	1.26E+03	1.72E+02	2.54E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
395069	10/13/2015 - 10/13/2015	H3SW	<2.54E+02	0.00E+00	2.61E+02
395248	10/20/2015 - 10/20/2015	H3SW	<1.95E+02	0.00E+00	2.53E+02
395451	10/27/2015 - 10/27/2015	H3SW	3.57E+02	1.55E+02	2.53E+02
395847	11/3/2015 - 11/3/2015	H3SW	4.99E+02	1.57E+02	2.52E+02
396241	11/11/2015 - 11/11/2015	H3SW	6.35E+02	1.63E+02	2.57E+02
397566	11/17/2015 - 11/17/2015	H3SW	<2.47E+02	0.00E+00	2.57E+02
397743	11/24/2015 - 11/24/2015	H3SW	4.00E+02	1.51E+02	2.43E+02
398116	12/1/2015 - 12/1/2015	H3SW	4.63E+02	1.58E+02	2.55E+02
398605	12/9/2015 - 12/9/2015	H3SW	5.22E+02	1.58E+02	2.52E+02
399033	12/15/2015 - 12/15/2015	H3SW	4.01E+02	1.65E+02	2.67E+02
399099	12/23/2015 - 12/23/2015	H3SW	5.24E+02	1.59E+02	2.53E+02
399405	12/29/2015 - 12/29/2015	H3SW	1.39E+03	1.76E+02	2.57E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366954	1/6/2015 - 1/6/2015	H3SW	<-8.5E+01	0.00E+00	2.46E+02
367340	1/13/2015 - 1/13/2015	H3SW	<-1.5E+02	0.00E+00	2.54E+02
369097	1/19/2015 - 1/19/2015	H3SW	<-1.7E+02	0.00E+00	2.52E+02
369339	1/26/2015 - 1/26/2015	H3SW	<1.35E+02	0.00E+00	2.41E+02
369907	2/3/2015 - 2/3/2015	H3SW	2.50E+02	1.44E+02	2.38E+02
370698	2/11/2015 - 2/11/2015	H3SW	<1.01E+02	0.00E+00	2.50E+02
371693	2/18/2015 - 2/18/2015	H3SW	<-1.4E+02	0.00E+00	2.62E+02
372246	2/25/2015 - 2/25/2015	H3SW	<1.75E+02	0.00E+00	2.41E+02
372968	3/4/2015 - 3/4/2015	H3SW	<-2.5E+01	0.00E+00	2.45E+02
373992	3/10/2015 - 3/10/2015	H3SW	<-1.9E+01	0.00E+00	2.56E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
374727	3/18/2015 - 3/18/2015	H3SW	<-1.3E+02	0.00E+00	2.57E+02
374878	3/24/2015 - 3/24/2015	H3SW	<2.62E+01	0.00E+00	2.47E+02
375201	3/31/2015 - 3/31/2015	H3SW	<6.16E+01	0.00E+00	2.47E+02
376931	4/7/2015 - 4/7/2015	H3SW	<6.15E+01	0.00E+00	2.44E+02
377314	4/15/2015 - 4/15/2015	H3SW	<-1.1E+02	0.00E+00	2.54E+02
378778	4/21/2015 - 4/21/2015	H3SW	<4.81E+01	0.00E+00	2.45E+02
379087	4/29/2015 - 4/29/2015	H3SW	<1.12E+02	0.00E+00	2.58E+02
379345	5/6/2015 - 5/6/2015	H3SW	<2.31E+01	0.00E+00	2.49E+02
379689	5/12/2015 - 5/12/2015	H3SW	<3.72E+01	0.00E+00	2.53E+02
380591	5/19/2015 - 5/19/2015	H3SW	<2.31E+01	0.00E+00	2.49E+02
380739	5/26/2015 - 5/26/2015	H3SW	<1.61E+02	0.00E+00	2.43E+02
381075	6/2/2015 - 6/2/2015	H3SW	<2.84E+01	0.00E+00	2.48E+02
381505	6/9/2015 - 6/9/2015	H3SW	<9.96E+01	0.00E+00	2.48E+02
381960	6/16/2015 - 6/16/2015	H3SW	<-1.8E+02	0.00E+00	2.46E+02
382063	6/23/2015 - 6/23/2015	H3SW	<1.03E+02	0.00E+00	2.41E+02
382823	6/30/2015 - 6/30/2015	H3SW	<8.64E+01	0.00E+00	2.52E+02
383468	7/7/2015 - 7/7/2015	H3SW	<8.32E+01	0.00E+00	2.53E+02
383952	7/14/2015 - 7/14/2015	H3SW	<-2.3E+01	0.00E+00	2.63E+02
384780	7/22/2015 - 7/22/2015	H3SW	<-1.4E+02	0.00E+00	2.72E+02
384891	7/28/2015 - 7/28/2015	H3SW	<1.55E+02	0.00E+00	2.45E+02
386041	8/4/2015 - 8/4/2015	H3SW	<2.05E+02	0.00E+00	2.57E+02
386307	8/11/2015 - 8/11/2015	H3SW	<3.25E+01	0.00E+00	2.56E+02
387324	8/18/2015 - 8/18/2015	H3SW	<1.82E+02	0.00E+00	2.47E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
388450	8/26/2015 - 8/26/2015	H3SW	<4.18E+01	0.00E+00	2.55E+02
389516	9/1/2015 - 9/1/2015	H3SW	<-2.8E+01	0.00E+00	2.54E+02
390521	9/9/2015 - 9/9/2015	H3SW	<-6.2E+01	0.00E+00	2.71E+02
390874	9/15/2015 - 9/15/2015	H3SW	<3.23E+01	0.00E+00	2.54E+02
392103	9/22/2015 - 9/22/2015	H3SW	<4.51E+01	0.00E+00	2.72E+02
393182	9/29/2015 - 9/29/2015	H3SW	<2.56E+01	0.00E+00	2.54E+02
394951	10/7/2015 - 10/7/2015	H3SW	<9.04E+01	0.00E+00	2.56E+02
395063	10/13/2015 - 10/13/2015	H3SW	<1.22E+02	0.00E+00	2.60E+02
395242	10/20/2015 - 10/20/2015	H3SW	<1.95E+02	0.00E+00	2.61E+02
395445	10/27/2015 - 10/27/2015	H3SW	<3.15E+01	0.00E+00	2.56E+02
395815	11/3/2015 - 11/3/2015	H3SW	<-3.3E+01	0.00E+00	2.55E+02
396235	11/11/2015 - 11/11/2015	H3SW	<-1.5E+01	0.00E+00	2.56E+02
397558	11/17/2015 - 11/17/2015	H3SW	<1.66E+02	0.00E+00	2.51E+02
397737	11/24/2015 - 11/24/2015	H3SW	<-8.8E+01	0.00E+00	2.59E+02
398110	12/1/2015 - 12/1/2015	H3SW	<1.42E+02	0.00E+00	2.55E+02
398599	12/9/2015 - 12/9/2015	H3SW	<1.51E+02	0.00E+00	2.53E+02
399027	12/15/2015 - 12/15/2015	H3SW	<-5.4E+01	0.00E+00	2.60E+02
399093	12/23/2015 - 12/23/2015	H3SW	<1.61E+02	0.00E+00	2.38E+02
399393	12/29/2015 - 12/29/2015	H3SW	<-5.6E+00	0.00E+00	2.57E+02

Sample Point 606 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366955	1/6/2015 - 1/6/2015	H3SW	<-1.1E+02	0.00E+00	2.48E+02
367341	1/13/2015 - 1/13/2015	H3SW	<0.00E+00	0.00E+00	2.55E+02
369098	1/19/2015 - 1/19/2015	H3SW	<-1.2E+02	0.00E+00	2.50E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
369340	1/26/2015 - 1/26/2015	H3SW	<6.61E+01	0.00E+00	2.47E+02
369908	2/3/2015 - 2/3/2015	H3SW	<1.81E+02	0.00E+00	2.38E+02
370700	2/11/2015 - 2/11/2015	H3SW	<1.80E+02	0.00E+00	2.51E+02
371694	2/18/2015 - 2/18/2015	H3SW	<-5.7E+01	0.00E+00	2.62E+02
372247	2/25/2015 - 2/25/2015	H3SW	<1.16E+02	0.00E+00	2.40E+02
372969	3/4/2015 - 3/4/2015	H3SW	<1.58E+01	0.00E+00	2.45E+02
373993	3/10/2015 - 3/10/2015	H3SW	<2.41E+01	0.00E+00	2.54E+02
374728	3/18/2015 - 3/18/2015	H3SW	<-9.3E+01	0.00E+00	2.57E+02
374879	3/24/2015 - 3/24/2015	H3SW	<3.66E+01	0.00E+00	2.47E+02
375202	3/31/2015 - 3/31/2015	H3SW	<1.13E+02	0.00E+00	2.52E+02
376932	4/7/2015 - 4/7/2015	H3SW	<1.29E+02	0.00E+00	2.45E+02
377315	4/15/2015 - 4/15/2015	H3SW	<-1.6E+02	0.00E+00	2.56E+02
378779	4/21/2015 - 4/21/2015	H3SW	<1.64E+02	0.00E+00	2.43E+02
379088	4/29/2015 - 4/29/2015	H3SW	<1.58E+02	0.00E+00	2.56E+02
379346	5/6/2015 - 5/6/2015	H3SW	<3.36E+01	0.00E+00	2.48E+02
379690	5/12/2015 - 5/12/2015	H3SW	<2.65E+01	0.00E+00	2.52E+02
380592	5/19/2015 - 5/19/2015	H3SW	<9.58E+01	0.00E+00	2.48E+02
380740	5/26/2015 - 5/26/2015	H3SW	<6.54E+01	0.00E+00	2.43E+02
381076	6/2/2015 - 6/2/2015	H3SW	<-6.4E+01	0.00E+00	2.48E+02
381506	6/9/2015 - 6/9/2015	H3SW	<6.42E+01	0.00E+00	2.49E+02
381961	6/16/2015 - 6/16/2015	H3SW	<5.32E+01	0.00E+00	2.46E+02
382064	6/23/2015 - 6/23/2015	H3SW	<7.27E+01	0.00E+00	2.40E+02
382824	6/30/2015 - 6/30/2015	H3SW	<-1.7E+01	0.00E+00	2.53E+02



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
383469	7/7/2015 - 7/7/2015	H3SW	<-1.7E+01	0.00E+00	2.53E+02
383953	7/14/2015 - 7/14/2015	H3SW	<-9.3E+01	0.00E+00	2.62E+02
384781	7/22/2015 - 7/22/2015	H3SW	<-2.3E+01	0.00E+00	2.70E+02
384892	7/28/2015 - 7/28/2015	H3SW	<1.91E+02	0.00E+00	2.45E+02
386042	8/4/2015 - 8/4/2015	H3SW	<2.71E+01	0.00E+00	2.58E+02
386308	8/11/2015 - 8/11/2015	H3SW	<-7.1E+01	0.00E+00	2.57E+02
387325	8/18/2015 - 8/18/2015	H3SW	<3.79E+01	0.00E+00	2.47E+02
388452	8/26/2015 - 8/26/2015	H3SW	<-4.0E+01	0.00E+00	2.53E+02
389517	9/1/2015 - 9/1/2015	H3SW	<-1.1E+01	0.00E+00	2.53E+02
390522	9/9/2015 - 9/9/2015	H3SW	<4.01E+00	0.00E+00	2.73E+02
390875	9/15/2015 - 9/15/2015	H3SW	<1.64E+01	0.00E+00	2.57E+02
392104	9/22/2015 - 9/22/2015	H3SW	<-2.4E+01	0.00E+00	2.70E+02
393183	9/29/2015 - 9/29/2015	H3SW	<-4.4E+01	0.00E+00	2.54E+02
394952	10/7/2015 - 10/7/2015	H3SW	<-2.8E+01	0.00E+00	2.56E+02
395064	10/13/2015 - 10/13/2015	H3SW	<7.81E+01	0.00E+00	2.61E+02
395243	10/20/2015 - 10/20/2015	H3SW	<8.49E+01	0.00E+00	2.60E+02
395446	10/27/2015 - 10/27/2015	H3SW	<1.47E+01	0.00E+00	2.54E+02
395816	11/3/2015 - 11/3/2015	H3SW	<-5.5E+00	0.00E+00	2.52E+02
396236	11/11/2015 - 11/11/2015	H3SW	<3.28E+01	0.00E+00	2.56E+02
397559	11/17/2015 - 11/17/2015	H3SW	<-2.0E+01	0.00E+00	2.51E+02
397738	11/24/2015 - 11/24/2015	H3SW	<-1.2E+02	0.00E+00	2.59E+02
398111	12/1/2015 - 12/1/2015	H3SW	<7.19E+01	0.00E+00	2.55E+02
398600	12/9/2015 - 12/9/2015	H3SW	<8.45E+01	0.00E+00	2.52E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
399028	12/15/2015 - 12/15/2015	H3SW	<-3.2E+01	0.00E+00	2.59E+02
399094	12/23/2015 - 12/23/2015	H3SW	<5.33E+01	0.00E+00	2.52E+02
399394	12/29/2015 - 12/29/2015	H3SW	<1.33E+02	0.00E+00	2.57E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366956	1/6/2015 - 1/6/2015	H3SW	<-7.1E+01	0.00E+00	2.47E+02
367407	1/13/2015 - 1/13/2015	H3SW	<7.37E+01	0.00E+00	2.51E+02
369099	1/19/2015 - 1/19/2015	H3SW	<-1.2E+01	0.00E+00	2.50E+02
369342	1/26/2015 - 1/26/2015	H3SW	<5.60E+01	0.00E+00	2.49E+02
369909	2/3/2015 - 2/3/2015	H3SW	<2.00E+02	0.00E+00	2.37E+02
370701	2/11/2015 - 2/11/2015	H3SW	<1.70E+02	0.00E+00	2.50E+02
371695	2/18/2015 - 2/18/2015	H3SW	<-6.1E+01	0.00E+00	2.64E+02
372248	2/25/2015 - 2/25/2015	H3SW	<1.33E+02	0.00E+00	2.41E+02
372970	3/4/2015 - 3/4/2015	H3SW	<1.41E+01	0.00E+00	2.46E+02
373994	3/10/2015 - 3/10/2015	H3SW	<1.54E+02	0.00E+00	2.57E+02
374729	3/18/2015 - 3/18/2015	H3SW	<-1.6E+02	0.00E+00	2.57E+02
374880	3/24/2015 - 3/24/2015	H3SW	<2.46E+01	0.00E+00	2.48E+02
375203	3/31/2015 - 3/31/2015	H3SW	<1.62E+02	0.00E+00	2.52E+02
376933	4/7/2015 - 4/7/2015	H3SW	<1.11E+02	0.00E+00	2.44E+02
377578	4/15/2015 - 4/15/2015	H3SW	<-3.4E+01	0.00E+00	2.55E+02
378781	4/21/2015 - 4/21/2015	H3SW	<1.24E+02	0.00E+00	2.44E+02
379089	4/29/2015 - 4/29/2015	H3SW	<1.64E+02	0.00E+00	2.56E+02
379347	5/6/2015 - 5/6/2015	H3SW	<1.64E+02	0.00E+00	2.48E+02
379691	5/12/2015 - 5/12/2015	H3SW	<-3.7E+01	0.00E+00	2.51E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
380593	5/19/2015 - 5/19/2015	H3SW	<9.05E+01	0.00E+00	2.48E+02
380741	5/26/2015 - 5/26/2015	H3SW	<4.42E+01	0.00E+00	2.43E+02
381077	6/2/2015 - 6/2/2015	H3SW	<8.85E+00	0.00E+00	2.47E+02
381507	6/9/2015 - 6/9/2015	H3SW	<-4.4E+01	0.00E+00	2.46E+02
381962	6/16/2015 - 6/16/2015	H3SW	<-5.7E+01	0.00E+00	2.46E+02
382065	6/23/2015 - 6/23/2015	H3SW	<1.65E+02	0.00E+00	2.40E+02
382825	6/30/2015 - 6/30/2015	H3SW	<9.94E+01	0.00E+00	2.56E+02
383470	7/7/2015 - 7/7/2015	H3SW	<9.45E+00	0.00E+00	2.53E+02
383954	7/14/2015 - 7/14/2015	H3SW	<2.09E+01	0.00E+00	2.63E+02
384782	7/22/2015 - 7/22/2015	H3SW	<-1.5E+02	0.00E+00	2.70E+02
384893	7/28/2015 - 7/28/2015	H3SW	<1.56E+02	0.00E+00	2.44E+02
386043	8/4/2015 - 8/4/2015	H3SW	<1.55E+01	0.00E+00	2.58E+02
386309	8/11/2015 - 8/11/2015	H3SW	<-4.0E+01	0.00E+00	2.57E+02
387326	8/18/2015 - 8/18/2015	H3SW	<7.97E+01	0.00E+00	2.48E+02
388453	8/26/2015 - 8/26/2015	H3SW	<-8.2E+01	0.00E+00	2.54E+02
389518	9/1/2015 - 9/1/2015	H3SW	<-3.3E+01	0.00E+00	2.52E+02
390523	9/9/2015 - 9/9/2015	H3SW	<-3.8E+01	0.00E+00	2.69E+02
390876	9/15/2015 - 9/15/2015	H3SW	<-4.0E+01	0.00E+00	2.54E+02
392105	9/22/2015 - 9/22/2015	H3SW	<2.45E+01	0.00E+00	2.71E+02
393184	9/29/2015 - 9/29/2015	H3SW	<6.39E+01	0.00E+00	2.53E+02
394953	10/7/2015 - 10/7/2015	H3SW	<-6.3E+01	0.00E+00	2.56E+02
395065	10/13/2015 - 10/13/2015	H3SW	<1.20E+02	0.00E+00	2.61E+02
395244	10/20/2015 - 10/20/2015	H3SW	<4.34E+01	0.00E+00	2.60E+02





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
395447	10/27/2015 - 10/27/2015	H3SW	<-1.1E+02	0.00E+00	2.54E+02
395817	11/3/2015 - 11/3/2015	H3SW	<2.40E+01	0.00E+00	2.54E+02
396237	11/11/2015 - 11/11/2015	H3SW	<3.65E+00	0.00E+00	2.56E+02
397560	11/17/2015 - 11/17/2015	H3SW	<1.44E+02	0.00E+00	2.52E+02
397739	11/24/2015 - 11/24/2015	H3SW	<-1.8E+02	0.00E+00	2.59E+02
398112	12/1/2015 - 12/1/2015	H3SW	<5.34E+01	0.00E+00	2.55E+02
398601	12/9/2015 - 12/9/2015	H3SW	<9.21E+01	0.00E+00	2.53E+02
399029	12/15/2015 - 12/15/2015	H3SW	<3.70E+00	0.00E+00	2.59E+02
399095	12/23/2015 - 12/23/2015	H3SW	<1.32E+02	0.00E+00	2.58E+02
399395	12/29/2015 - 12/29/2015	H3SW	<5.36E+01	0.00E+00	2.57E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366957	1/6/2015 - 1/6/2015	H3SW	<3.45E+00	0.00E+00	2.46E+02
367408	1/13/2015 - 1/13/2015	H3SW	6.52E+02	1.59E+02	2.50E+02
369100	1/19/2015 - 1/19/2015	H3SW	<-1.4E+02	0.00E+00	2.51E+02
369343	1/26/2015 - 1/26/2015	H3SW	<8.08E+01	0.00E+00	2.49E+02
369910	2/3/2015 - 2/3/2015	H3SW	<2.02E+02	0.00E+00	2.38E+02
370702	2/11/2015 - 2/11/2015	H3SW	<6.63E+01	0.00E+00	2.51E+02
371696	2/18/2015 - 2/18/2015	H3SW	<-1.4E+02	0.00E+00	2.62E+02
372249	2/25/2015 - 2/25/2015	H3SW	2.90E+02	1.47E+02	2.41E+02
372971	3/4/2015 - 3/4/2015	H3SW	<2.13E+02	0.00E+00	2.46E+02
373995	3/10/2015 - 3/10/2015	H3SW	3.20E+02	1.49E+02	2.43E+02
374730	3/18/2015 - 3/18/2015	H3SW	<-3.0E+01	0.00E+00	2.50E+02
374881	3/24/2015 - 3/24/2015	H3SW	<4.91E+01	0.00E+00	2.48E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
375204	3/31/2015 - 3/31/2015	H3SW	<1.00E+02	0.00E+00	2.56E+02
376934	4/7/2015 - 4/7/2015	H3SW	<6.15E+01	0.00E+00	2.44E+02
377579	4/15/2015 - 4/15/2015	H3SW	<-4.6E+01	0.00E+00	2.53E+02
378782	4/21/2015 - 4/21/2015	H3SW	<1.03E+02	0.00E+00	2.44E+02
379090	4/29/2015 - 4/29/2015	H3SW	<6.03E+01	0.00E+00	2.54E+02
379348	5/6/2015 - 5/6/2015	H3SW	<1.30E+02	0.00E+00	2.47E+02
379709	5/12/2015 - 5/12/2015	H3SW	<9.19E+01	0.00E+00	2.52E+02
380631	5/19/2015 - 5/19/2015	H3SW	<1.12E+02	0.00E+00	2.43E+02
380750	5/26/2015 - 5/26/2015	H3SW	<1.14E+02	0.00E+00	2.48E+02
381078	6/2/2015 - 6/2/2015	H3SW	<3.74E+01	0.00E+00	2.51E+02
381508	6/9/2015 - 6/9/2015	H3SW	<3.36E+01	0.00E+00	2.46E+02
381964	6/16/2015 - 6/16/2015	H3SW	<1.77E+00	0.00E+00	2.46E+02
382066	6/23/2015 - 6/23/2015	H3SW	<1.99E+02	0.00E+00	2.40E+02
382826	6/30/2015 - 6/30/2015	H3SW	<-5.7E+00	0.00E+00	2.54E+02
383471	7/7/2015 - 7/7/2015	H3SW	<1.16E+02	0.00E+00	2.53E+02
383955	7/14/2015 - 7/14/2015	H3SW	<-8.0E+01	0.00E+00	2.65E+02
384783	7/22/2015 - 7/22/2015	H3SW	<-1.3E+02	0.00E+00	2.72E+02
384894	7/28/2015 - 7/28/2015	H3SW	<6.93E+01	0.00E+00	2.55E+02
386044	8/4/2015 - 8/4/2015	H3SW	<5.16E+01	0.00E+00	2.66E+02
386310	8/11/2015 - 8/11/2015	H3SW	<2.54E+01	0.00E+00	2.48E+02
387327	8/18/2015 - 8/18/2015	H3SW	<2.21E+02	0.00E+00	2.48E+02
388454	8/26/2015 - 8/26/2015	H3SW	<-5.6E+01	0.00E+00	2.54E+02
389713	9/1/2015 - 9/1/2015	H3SW	<-6.0E+01	0.00E+00	2.59E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
390575	9/9/2015 - 9/9/2015	H3SW	<-1.9E+02	0.00E+00	2.77E+02
390877	9/15/2015 - 9/15/2015	H3SW	<-4.4E+01	0.00E+00	2.57E+02
392725	9/22/2015 - 9/22/2015	H3SW	<1.69E+02	0.00E+00	2.37E+02
393185	9/29/2015 - 9/29/2015	H3SW	<1.19E+02	0.00E+00	2.53E+02
394954	10/7/2015 - 10/7/2015	H3SW	<1.55E+02	0.00E+00	2.53E+02
395066	10/13/2015 - 10/13/2015	H3SW	<1.15E+02	0.00E+00	2.64E+02
395245	10/20/2015 - 10/20/2015	H3SW	<7.01E+01	0.00E+00	2.54E+02
395448	10/27/2015 - 10/27/2015	H3SW	<-1.7E+01	0.00E+00	2.51E+02
395844	11/3/2015 - 11/3/2015	H3SW	<1.35E+02	0.00E+00	2.54E+02
396238	11/11/2015 - 11/11/2015	H3SW	<-6.5E+01	0.00E+00	2.59E+02
397563	11/17/2015 - 11/17/2015	H3SW	<-7.5E+01	0.00E+00	2.59E+02
397740	11/24/2015 - 11/24/2015	H3SW	<2.19E+02	0.00E+00	2.42E+02
398113	12/1/2015 - 12/1/2015	H3SW	<5.69E+01	0.00E+00	2.54E+02
398602	12/9/2015 - 12/9/2015	H3SW	<9.98E+01	0.00E+00	2.53E+02
399030	12/15/2015 - 12/15/2015	H3SW	<9.51E+01	0.00E+00	2.65E+02
399096	12/23/2015 - 12/23/2015	H3SW	<8.48E+01	0.00E+00	2.53E+02
399396	12/29/2015 - 12/29/2015	H3SW	<1.64E+02	0.00E+00	2.56E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366958	1/6/2015 - 1/6/2015	H3SW	<-1.6E+01	0.00E+00	2.46E+02
367409	1/13/2015 - 1/13/2015	H3SW	<-1.8E+00	0.00E+00	2.51E+02
369101	1/19/2015 - 1/19/2015	H3SW	<1.38E+01	0.00E+00	2.51E+02
369344	1/26/2015 - 1/26/2015	H3SW	<8.01E+01	0.00E+00	2.47E+02
369911	2/3/2015 - 2/3/2015	H3SW	<1.12E+02	0.00E+00	2.38E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
370703	2/11/2015 - 2/11/2015	H3SW	<1.66E+02	0.00E+00	2.51E+02
371697	2/18/2015 - 2/18/2015	H3SW	<-2.2E+02	0.00E+00	2.62E+02
372250	2/25/2015 - 2/25/2015	H3SW	<1.40E+02	0.00E+00	2.41E+02
372972	3/4/2015 - 3/4/2015	H3SW	<1.86E+02	0.00E+00	2.46E+02
373996	3/10/2015 - 3/10/2015	H3SW	<7.88E+01	0.00E+00	2.42E+02
374731	3/18/2015 - 3/18/2015	H3SW	<1.38E+02	0.00E+00	2.50E+02
374882	3/24/2015 - 3/24/2015	H3SW	<9.45E+01	0.00E+00	2.47E+02
375205	3/31/2015 - 3/31/2015	H3SW	<5.28E+01	0.00E+00	2.55E+02
376935	4/7/2015 - 4/7/2015	H3SW	<8.30E+01	0.00E+00	2.45E+02
377580	4/15/2015 - 4/15/2015	H3SW	<-2.3E+01	0.00E+00	2.54E+02
378783	4/21/2015 - 4/21/2015	H3SW	<1.13E+02	0.00E+00	2.44E+02
379091	4/29/2015 - 4/29/2015	H3SW	<-3.0E+01	0.00E+00	2.54E+02
379349	5/6/2015 - 5/6/2015	H3SW	<7.96E+01	0.00E+00	2.48E+02
379710	5/12/2015 - 5/12/2015	H3SW	<9.22E+01	0.00E+00	2.53E+02
380632	5/19/2015 - 5/19/2015	H3SW	2.48E+02	1.48E+02	2.43E+02
380751	5/26/2015 - 5/26/2015	H3SW	<1.09E+02	0.00E+00	2.49E+02
381079	6/2/2015 - 6/2/2015	H3SW	<-1.1E+02	0.00E+00	2.51E+02
381509	6/9/2015 - 6/9/2015	H3SW	<-4.6E+01	0.00E+00	2.48E+02
381965	6/16/2015 - 6/16/2015	H3SW	<8.62E+01	0.00E+00	2.49E+02
382067	6/23/2015 - 6/23/2015	H3SW	<1.16E+02	0.00E+00	2.41E+02
382827	6/30/2015 - 6/30/2015	H3SW	<6.03E+01	0.00E+00	2.53E+02
383472	7/7/2015 - 7/7/2015	H3SW	<1.19E+02	0.00E+00	2.53E+02
383956	7/14/2015 - 7/14/2015	H3SW	<-3.4E+01	0.00E+00	2.63E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
384784	7/22/2015 - 7/22/2015	H3SW	<-5.8E+01	0.00E+00	2.68E+02
384895	7/28/2015 - 7/28/2015	H3SW	<1.51E+02	0.00E+00	2.57E+02
386045	8/4/2015 - 8/4/2015	H3SW	<-4.0E+00	0.00E+00	2.66E+02
386311	8/11/2015 - 8/11/2015	H3SW	<1.39E+02	0.00E+00	2.47E+02
387328	8/18/2015 - 8/18/2015	H3SW	<1.40E+02	0.00E+00	2.46E+02
388455	8/26/2015 - 8/26/2015	H3SW	<-1.5E+01	0.00E+00	2.54E+02
389714	9/1/2015 - 9/1/2015	H3SW	<-1.9E+02	0.00E+00	2.61E+02
390737	9/9/2015 - 9/9/2015	H3SW	<-2.4E+01	0.00E+00	2.79E+02
390878	9/15/2015 - 9/15/2015	H3SW	<-1.3E+02	0.00E+00	2.57E+02
392726	9/22/2015 - 9/22/2015	H3SW	<-1.7E+01	0.00E+00	2.55E+02
393186	9/29/2015 - 9/29/2015	H3SW	<2.20E+01	0.00E+00	2.54E+02
394955	10/7/2015 - 10/7/2015	H3SW	<9.26E+00	0.00E+00	2.54E+02
395067	10/13/2015 - 10/13/2015	H3SW	<9.24E+01	0.00E+00	2.62E+02
395246	10/20/2015 - 10/20/2015	H3SW	<-1.7E+01	0.00E+00	2.52E+02
395449	10/27/2015 - 10/27/2015	H3SW	<4.38E+01	0.00E+00	2.51E+02
395845	11/3/2015 - 11/3/2015	H3SW	<1.21E+02	0.00E+00	2.50E+02
396239	11/11/2015 - 11/11/2015	H3SW	<-1.8E+01	0.00E+00	2.56E+02
397564	11/17/2015 - 11/17/2015	H3SW	<8.27E+01	0.00E+00	2.57E+02
397741	11/24/2015 - 11/24/2015	H3SW	<1.23E+02	0.00E+00	2.42E+02
398114	12/1/2015 - 12/1/2015	H3SW	<-3.7E+01	0.00E+00	2.55E+02
398603	12/9/2015 - 12/9/2015	H3SW	<1.42E+02	0.00E+00	2.53E+02
399031	12/15/2015 - 12/15/2015	H3SW	<7.54E+01	0.00E+00	2.67E+02
399097	12/23/2015 - 12/23/2015	H3SW	<2.93E+01	0.00E+00	2.52E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
399397	12/29/2015 - 12/29/2015	H3SW	<1.29E+01	0.00E+00	2.57E+02

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

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
366959	1/6/2015 - 1/6/2015	H3SW	<-1.0E+02	0.00E+00	2.46E+02
367410	1/13/2015 - 1/13/2015	H3SW	<1.04E+02	0.00E+00	2.49E+02
369102	1/19/2015 - 1/19/2015	H3SW	<-6.3E+01	0.00E+00	2.52E+02
369345	1/26/2015 - 1/26/2015	H3SW	<-7.0E+00	0.00E+00	2.47E+02
369912	2/3/2015 - 2/3/2015	H3SW	<1.75E+02	0.00E+00	2.38E+02
370705	2/11/2015 - 2/11/2015	H3SW	<1.12E+02	0.00E+00	2.51E+02
371698	2/18/2015 - 2/18/2015	H3SW	<-1.8E+02	0.00E+00	2.62E+02
372251	2/25/2015 - 2/25/2015	H3SW	<5.43E+01	0.00E+00	2.41E+02
372973	3/4/2015 - 3/4/2015	H3SW	2.48E+02	1.50E+02	2.47E+02
373997	3/10/2015 - 3/10/2015	H3SW	<1.54E+02	0.00E+00	2.42E+02
374732	3/18/2015 - 3/18/2015	H3SW	<-3.5E+00	0.00E+00	2.50E+02
374883	3/24/2015 - 3/24/2015	H3SW	<1.14E+02	0.00E+00	2.48E+02
375206	3/31/2015 - 3/31/2015	H3SW	<4.54E+01	0.00E+00	2.56E+02
376936	4/7/2015 - 4/7/2015	H3SW	<1.18E+02	0.00E+00	2.44E+02
377581	4/15/2015 - 4/15/2015	H3SW	<-4.2E+01	0.00E+00	2.54E+02
378784	4/21/2015 - 4/21/2015	H3SW	<1.36E+02	0.00E+00	2.43E+02
379092	4/29/2015 - 4/29/2015	H3SW	<7.10E+01	0.00E+00	2.54E+02
379350	5/6/2015 - 5/6/2015	H3SW	<8.69E+01	0.00E+00	2.49E+02
379711	5/12/2015 - 5/12/2015	H3SW	<2.47E+01	0.00E+00	2.53E+02
380633	5/19/2015 - 5/19/2015	H3SW	2.74E+02	1.48E+02	2.43E+02
380752	5/26/2015 - 5/26/2015	H3SW	<3.54E+01	0.00E+00	2.45E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
381080	6/2/2015 - 6/2/2015	H3SW	<-1.8E+01	0.00E+00	2.50E+02
381510	6/9/2015 - 6/9/2015	H3SW	<-2.3E+01	0.00E+00	2.47E+02
381966	6/16/2015 - 6/16/2015	H3SW	<-1.1E+02	0.00E+00	2.51E+02
382068	6/23/2015 - 6/23/2015	H3SW	<1.52E+02	0.00E+00	2.40E+02
382828	6/30/2015 - 6/30/2015	H3SW	<-3.8E+01	0.00E+00	2.54E+02
383473	7/7/2015 - 7/7/2015	H3SW	<1.00E+02	0.00E+00	2.48E+02
383960	7/14/2015 - 7/14/2015	H3SW	<-3.0E+01	0.00E+00	2.63E+02
384785	7/22/2015 - 7/22/2015	H3SW	<-7.3E+01	0.00E+00	2.69E+02
384896	7/28/2015 - 7/28/2015	H3SW	<1.15E+01	0.00E+00	2.55E+02
386046	8/4/2015 - 8/4/2015	H3SW	<-6.8E+01	0.00E+00	2.67E+02
386312	8/11/2015 - 8/11/2015	H3SW	<1.99E+02	0.00E+00	2.47E+02
387329	8/18/2015 - 8/18/2015	H3SW	<1.61E+02	0.00E+00	2.47E+02
388456	8/26/2015 - 8/26/2015	H3SW	<-1.1E+02	0.00E+00	2.53E+02
389715	9/1/2015 - 9/1/2015	H3SW	<-9.9E+01	0.00E+00	2.62E+02
390738	9/9/2015 - 9/9/2015	H3SW	<1.41E+01	0.00E+00	2.78E+02
390879	9/15/2015 - 9/15/2015	H3SW	<-2.5E+01	0.00E+00	2.56E+02
392727	9/22/2015 - 9/22/2015	H3SW	<-4.4E+01	0.00E+00	2.67E+02
393187	9/29/2015 - 9/29/2015	H3SW	<5.84E+01	0.00E+00	2.53E+02
394956	10/7/2015 - 10/7/2015	H3SW	<-9.2E+00	0.00E+00	2.53E+02
395068	10/13/2015 - 10/13/2015	H3SW	<1.49E+02	0.00E+00	2.63E+02
395247	10/20/2015 - 10/20/2015	H3SW	<3.32E+01	0.00E+00	2.54E+02
395450	10/27/2015 - 10/27/2015	H3SW	<-5.9E+01	0.00E+00	2.51E+02
395846	11/3/2015 - 11/3/2015	H3SW	<8.66E+01	0.00E+00	2.50E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (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	LLD
396240	11/11/2015 - 11/11/2015	H3SW	<-1.3E+01	0.00E+00	2.58E+02
397565	11/17/2015 - 11/17/2015	H3SW	<-2.2E+01	0.00E+00	2.57E+02
397742	11/24/2015 - 11/24/2015	H3SW	<1.66E+02	0.00E+00	2.44E+02
398115	12/1/2015 - 12/1/2015	H3SW	<-7.4E+00	0.00E+00	2.55E+02
398604	12/9/2015 - 12/9/2015	H3SW	<3.67E+01	0.00E+00	2.52E+02
399032	12/15/2015 - 12/15/2015	H3SW	<1.30E+02	0.00E+00	2.67E+02
399098	12/23/2015 - 12/23/2015	H3SW	<2.21E+01	0.00E+00	2.53E+02
399398	12/29/2015 - 12/29/2015	H3SW	<1.22E+02	0.00E+00	2.57E+02

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378827	1/6/2015 - 1/6/2015	Total-Gam	0.00E+00		LLD
378828	1/13/2015 - 1/13/2015	Total-Gam	0.00E+00		LLD
378829	1/19/2015 - 1/19/2015	Total-Gam	0.00E+00		LLD
378830	1/26/2015 - 1/26/2015	Total-Gam	0.00E+00		LLD
378831	2/3/2015 - 2/3/2015	Total-Gam	0.00E+00		LLD
378832	2/11/2015 - 2/11/2015	Total-Gam	0.00E+00		LLD
378833	2/18/2015 - 2/18/2015	Total-Gam	0.00E+00		LLD
378834	2/25/2015 - 2/25/2015	Total-Gam	0.00E+00		LLD
378835	3/4/2015 - 3/4/2015	Total-Gam	0.00E+00		LLD
378836	3/10/2015 - 3/10/2015	Total-Gam	0.00E+00		LLD
378837	3/18/2015 - 3/18/2015	Total-Gam	0.00E+00		LLD
378838	3/24/2015 - 3/24/2015	Total-Gam	0.00E+00		LLD
378839	3/31/2015 - 3/31/2015	Total-Gam	0.00E+00		LLD
378840	4/7/2015 - 4/7/2015	Total-Gam	0.00E+00		LLD





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
378841	4/15/2015 - 4/15/2015	Total-Gam	0.00E+00		
378633	4/21/2015 - 4/21/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.76E+01	0.00E+00	1.76E+01
		Co-58	<7.77E+00	0.00E+00	7.77E+00
		Fe-59	<2.68E+01	0.00E+00	2.68E+01
		Co-60	<9.26E+00	0.00E+00	9.26E+00
		Zn-65	<2.56E+01	0.00E+00	2.56E+01
		Zr-95	<3.28E+01	0.00E+00	3.28E+01
		Nb-95	<1.88E+01	0.00E+00	1.88E+01
		I-131	<3.80E+01	0.00E+00	3.80E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.76E+03	0.00E+00	3.76E+03
		Ba-140	<8.78E+01	0.00E+00	8.78E+01
		Total-Gam	0.00E+00		
379096	4/29/2015 - 4/29/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.43E+01	0.00E+00	1.43E+01
		Co-58	<1.35E+01	0.00E+00	1.35E+01
		Fe-59	<3.79E+01	0.00E+00	3.79E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01
		Zr-95	<1.89E+01	0.00E+00	1.89E+01
		Nb-95	<1.89E+01	0.00E+00	1.89E+01
		I-131	<5.61E+01	0.00E+00	5.61E+01
		Cs-134	<7.84E+00	0.00E+00	7.84E+00
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<2.84E+03	0.00E+00	2.84E+03
		Ba-140	<8.86E+01	0.00E+00	8.86E+01
		Total-Gam	0.00E+00		
379544	5/6/2015 - 5/6/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.24E+01	0.00E+00	1.24E+01
		Co-58	<2.18E+01	0.00E+00	2.18E+01
		Fe-59	<3.93E+01	0.00E+00	3.93E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.61E+01	0.00E+00	3.61E+01
		Zr-95	<2.64E+01	0.00E+00	2.64E+01
		Nb-95	<2.02E+01	0.00E+00	2.02E+01
		I-131	<3.68E+01	0.00E+00	3.68E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<1.73E+03	0.00E+00	1.73E+03
		Ba-140	<1.05E+02	0.00E+00	1.05E+02
		Total-Gam	0.00E+00		
379693	5/12/2015 - 5/12/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.42E+01	0.00E+00	1.42E+01
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<2.64E+01	0.00E+00	2.64E+01
		Co-60	<9.25E+00	0.00E+00	9.25E+00
		Zn-65	<4.00E+01	0.00E+00	4.00E+01
		Zr-95	<2.56E+01	0.00E+00	2.56E+01
		Nb-95	<1.90E+01	0.00E+00	1.90E+01
		I-131	<3.24E+01	0.00E+00	3.24E+01
		Cs-134	<7.91E+00	0.00E+00	7.91E+00
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.07E+03	0.00E+00	1.07E+03
		Ba-140	<7.67E+01	0.00E+00	7.67E+01
		Total-Gam	0.00E+00		
380594	5/19/2015 - 5/19/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.02E+01	0.00E+00	1.02E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380594	5/19/2015 - 5/19/2015	Co-58	<1.36E+01	0.00E+00	1.36E+01
		Fe-59	<2.86E+01	0.00E+00	2.86E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<3.14E+01	0.00E+00	3.14E+01
		Zr-95	<2.70E+01	0.00E+00	2.70E+01
		Nb-95	<2.27E+01	0.00E+00	2.27E+01
		I-131	<5.26E+01	0.00E+00	5.26E+01
		Cs-134	<1.75E+01	0.00E+00	1.75E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<5.58E+03	0.00E+00	5.58E+03
		Ba-140	<8.27E+01	0.00E+00	8.27E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380742	5/26/2015 - 5/26/2015	Mn-54	<1.42E+01	0.00E+00	1.42E+01
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<3.51E+01	0.00E+00	3.51E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.09E+01	0.00E+00	3.09E+01
		Zr-95	<1.27E+01	0.00E+00	1.27E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<3.29E+01	0.00E+00	3.29E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<3.47E+02	0.00E+00	3.47E+02
		Ba-140	<1.08E+02	0.00E+00	1.08E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380942	6/2/2015 - 6/2/2015	Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<1.63E+01	0.00E+00	1.63E+01
		Fe-59	<3.41E+01	0.00E+00	3.41E+01
		Co-60	<9.24E+00	0.00E+00	9.24E+00
		Zn-65	<3.55E+01	0.00E+00	3.55E+01
		Zr-95	<2.49E+01	0.00E+00	2.49E+01
		Nb-95	<2.08E+01	0.00E+00	2.08E+01
		I-131	<2.37E+01	0.00E+00	2.37E+01
		Cs-134	<1.65E+01	0.00E+00	1.65E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<2.80E+02	0.00E+00	2.80E+02
		Ba-140	<6.09E+01	0.00E+00	6.09E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381450	6/9/2015 - 6/9/2015	Mn-54	<2.01E+01	0.00E+00	2.01E+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	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<3.13E+01	0.00E+00	3.13E+01
		Nb-95	<2.44E+01	0.00E+00	2.44E+01
		I-131	<2.94E+01	0.00E+00	2.94E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.14E+03	0.00E+00	1.14E+03
		Ba-140	<7.63E+01	0.00E+00	7.63E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381766	6/16/2015 - 6/16/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.66E+01	0.00E+00	1.66E+01
		Fe-59	<2.61E+01	0.00E+00	2.61E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.57E+01	0.00E+00	3.57E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381766	6/16/2015 - 6/16/2015	Zr-95	<2.68E+01	0.00E+00	2.68E+01
		Nb-95	<1.87E+01	0.00E+00	1.87E+01
		I-131	<2.91E+01	0.00E+00	2.91E+01
		Cs-134	<7.90E+00	0.00E+00	7.90E+00
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<5.93E+02	0.00E+00	5.93E+02
		Ba-140	<7.94E+01	0.00E+00	7.94E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381969	6/23/2015 - 6/23/2015	Mn-54	<9.88E+00	0.00E+00	9.88E+00
		Co-58	<9.77E+00	0.00E+00	9.77E+00
		Fe-59	<3.14E+01	0.00E+00	3.14E+01
		Co-60	<9.22E+00	0.00E+00	9.22E+00
		Zn-65	<2.47E+01	0.00E+00	2.47E+01
		Zr-95	<2.88E+01	0.00E+00	2.88E+01
		Nb-95	<1.33E+01	0.00E+00	1.33E+01
		I-131	<1.59E+01	0.00E+00	1.59E+01
		Cs-134	<1.64E+01	0.00E+00	1.64E+01
		Cs-137	<9.57E+00	0.00E+00	9.57E+00
		La-140	<5.20E+01	0.00E+00	5.20E+01
		Ba-140	<5.43E+01	0.00E+00	5.43E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
382350	6/30/2015 - 6/30/2015	Mn-54	<9.86E+00	0.00E+00	9.86E+00
		Co-58	<1.37E+01	0.00E+00	1.37E+01
		Fe-59	<3.80E+01	0.00E+00	3.80E+01
		Co-60	<2.26E+01	0.00E+00	2.26E+01
		Zn-65	<4.27E+01	0.00E+00	4.27E+01
		Zr-95	<2.33E+01	0.00E+00	2.33E+01
		Nb-95	<1.73E+01	0.00E+00	1.73E+01
		I-131	<1.48E+01	0.00E+00	1.48E+01
		Cs-134	<1.82E+01	0.00E+00	1.82E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.36E+01	0.00E+00	1.36E+01
		Ba-140	<4.82E+01	0.00E+00	4.82E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383476	7/7/2015 - 7/7/2015	Mn-54	<1.76E+01	0.00E+00	1.76E+01
		Co-58	<1.57E+01	0.00E+00	1.57E+01
		Fe-59	<2.86E+01	0.00E+00	2.86E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.62E+01	0.00E+00	3.62E+01
		Zr-95	<1.91E+01	0.00E+00	1.91E+01
		Nb-95	<1.71E+01	0.00E+00	1.71E+01
		I-131	<4.76E+01	0.00E+00	4.76E+01
		Cs-134	<1.24E+01	0.00E+00	1.24E+01
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		La-140	<9.74E+03	0.00E+00	9.74E+03
		Ba-140	<9.16E+01	0.00E+00	9.16E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383959	7/14/2015 - 7/14/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.81E+01	0.00E+00	1.81E+01
		Fe-59	<3.50E+01	0.00E+00	3.50E+01
		Co-60	<1.77E+01	0.00E+00	1.77E+01
		Zn-65	<2.52E+01	0.00E+00	2.52E+01
		Zr-95	<2.19E+01	0.00E+00	2.19E+01
		Nb-95	<1.86E+01	0.00E+00	1.86E+01
		I-131	<3.24E+01	0.00E+00	3.24E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383959	7/14/2015 - 7/14/2015	Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<7.35E+02	0.00E+00	7.35E+02
		Ba-140	<7.89E+01	0.00E+00	7.89E+01
		Total-Gam	0.00E+00		
384788	7/22/2015 - 7/22/2015	Mn-54	<1.58E+01	0.00E+00	1.58E+01
		Co-58	<1.64E+01	0.00E+00	1.64E+01
		Fe-59	<3.44E+01	0.00E+00	3.44E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<4.70E+01	0.00E+00	4.70E+01
		Zr-95	<2.16E+01	0.00E+00	2.16E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<2.37E+01	0.00E+00	2.37E+01
		Cs-134	<1.46E+01	0.00E+00	1.46E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<2.95E+02	0.00E+00	2.95E+02
		Ba-140	<9.33E+01	0.00E+00	9.33E+01
		Total-Gam	0.00E+00		
384883	7/28/2015 - 7/28/2015	Mn-54	<1.21E+01	0.00E+00	1.21E+01
		Co-58	<1.81E+01	0.00E+00	1.81E+01
		Fe-59	<3.47E+01	0.00E+00	3.47E+01
		Co-60	<1.30E+01	0.00E+00	1.30E+01
		Zn-65	<2.47E+01	0.00E+00	2.47E+01
		Zr-95	<2.84E+01	0.00E+00	2.84E+01
		Nb-95	<1.46E+01	0.00E+00	1.46E+01
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<2.43E+01	0.00E+00	2.43E+01
		Ba-140	<5.20E+01	0.00E+00	5.20E+01
		Total-Gam	0.00E+00		
386033	8/4/2015 - 8/4/2015	Mn-54	<1.41E+01	0.00E+00	1.41E+01
		Co-58	<1.78E+01	0.00E+00	1.78E+01
		Fe-59	<2.94E+01	0.00E+00	2.94E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.96E+01	0.00E+00	3.96E+01
		Zr-95	<2.48E+01	0.00E+00	2.48E+01
		Nb-95	<1.27E+01	0.00E+00	1.27E+01
		I-131	<1.95E+01	0.00E+00	1.95E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<2.09E+02	0.00E+00	2.09E+02
		Ba-140	<6.59E+01	0.00E+00	6.59E+01
		Total-Gam	0.00E+00		
386299	8/11/2015 - 8/11/2015	Mn-54	<1.40E+01	0.00E+00	1.40E+01
		Co-58	<1.20E+01	0.00E+00	1.20E+01
		Fe-59	<2.73E+01	0.00E+00	2.73E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<2.47E+01	0.00E+00	2.47E+01
		Zr-95	<2.04E+01	0.00E+00	2.04E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<1.68E+01	0.00E+00	1.68E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<4.30E+01	0.00E+00	4.30E+01
		Ba-140	<5.86E+01	0.00E+00	5.86E+01
		Total-Gam	0.00E+00		



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

<b>Sample ID:</b> 387254	<b>Sample Dates:</b> 8/18/2015 - 8/18/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<7.00E+00	0.00E+00	7.00E+00
		Co-58	<1.39E+01	0.00E+00	1.39E+01
		Fe-59	<2.25E+01	0.00E+00	2.25E+01
		Co-60	<2.06E+01	0.00E+00	2.06E+01
		Zn-65	<3.03E+01	0.00E+00	3.03E+01
		Zr-95	<2.05E+01	0.00E+00	2.05E+01
		Nb-95	<1.35E+01	0.00E+00	1.35E+01
		I-131	<2.24E+01	0.00E+00	2.24E+01
		Cs-134	<1.55E+01	0.00E+00	1.55E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<2.67E+01	0.00E+00	2.67E+01
		Ba-140	<6.08E+01	0.00E+00	6.08E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 388442	<b>Sample Dates:</b> 8/26/2015 - 8/26/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<2.38E+01	0.00E+00	2.38E+01
		Co-60	<9.24E+00	0.00E+00	9.24E+00
		Zn-65	<3.96E+01	0.00E+00	3.96E+01
		Zr-95	<2.12E+01	0.00E+00	2.12E+01
		Nb-95	<7.22E+00	0.00E+00	7.22E+00
		I-131	<1.96E+01	0.00E+00	1.96E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		La-140	<2.34E+02	0.00E+00	2.34E+02
		Ba-140	<4.48E+01	0.00E+00	4.48E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 389508	<b>Sample Dates:</b> 9/1/2015 - 9/1/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.58E+01	0.00E+00	1.58E+01
		Co-58	<1.27E+01	0.00E+00	1.27E+01
		Fe-59	<1.73E+01	0.00E+00	1.73E+01
		Co-60	<1.77E+01	0.00E+00	1.77E+01
		Zn-65	<3.98E+01	0.00E+00	3.98E+01
		Zr-95	<2.66E+01	0.00E+00	2.66E+01
		Nb-95	<1.98E+01	0.00E+00	1.98E+01
		I-131	<2.45E+01	0.00E+00	2.45E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<2.44E+02	0.00E+00	2.44E+02
		Ba-140	<7.03E+01	0.00E+00	7.03E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 390134	<b>Sample Dates:</b> 9/9/2015 - 9/9/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<1.03E+02	0.00E+00	1.03E+02
		Fe-59	<3.40E+01	0.00E+00	3.40E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.55E+01	0.00E+00	3.55E+01
		Zr-95	<3.04E+01	0.00E+00	3.04E+01
		Nb-95	<1.47E+01	0.00E+00	1.47E+01
		I-131	<2.46E+01	0.00E+00	2.46E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.24E+02	0.00E+00	3.24E+02
		Ba-140	<8.54E+01	0.00E+00	8.54E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 390866	<b>Sample Dates:</b> 9/15/2015 - 9/15/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.87E+01	0.00E+00	1.87E+01
		Co-58	<7.27E+00	0.00E+00	7.27E+00
		Fe-59	<3.41E+01	0.00E+00	3.41E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390866	9/15/2015 - 9/15/2015	Zn-65	<2.51E+01	0.00E+00	2.51E+01
		Zr-95	<1.76E+01	0.00E+00	1.76E+01
		Nb-95	<1.47E+01	0.00E+00	1.47E+01
		I-131	<1.98E+01	0.00E+00	1.98E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<2.25E+02	0.00E+00	2.25E+02
		Ba-140	<5.43E+01	0.00E+00	5.43E+01
		Total-Gam	0.00E+00		
		392088	9/22/2015 - 9/22/2015	Mn-54	<1.73E+01
Co-58	<1.03E+01			0.00E+00	1.03E+01
Fe-59	<2.40E+01			0.00E+00	2.40E+01
Co-60	<9.24E+00			0.00E+00	9.24E+00
Zn-65	<1.77E+01			0.00E+00	1.77E+01
Zr-95	<2.48E+01			0.00E+00	2.48E+01
Nb-95	<2.31E+01			0.00E+00	2.31E+01
I-131	<2.08E+01			0.00E+00	2.08E+01
Cs-134	<9.54E+00			0.00E+00	9.54E+00
Cs-137	<2.03E+01			0.00E+00	2.03E+01
La-140	<2.54E+02			0.00E+00	2.54E+02
Ba-140	<9.69E+01			0.00E+00	9.69E+01
Total-Gam	0.00E+00				
392569	9/29/2015 - 9/29/2015	Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<1.45E+01	0.00E+00	1.45E+01
		Fe-59	<3.40E+01	0.00E+00	3.40E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.97E+01	0.00E+00	3.97E+01
		Zr-95	<3.39E+01	0.00E+00	3.39E+01
		Nb-95	<1.94E+01	0.00E+00	1.94E+01
		I-131	<2.46E+01	0.00E+00	2.46E+01
		Cs-134	<1.46E+01	0.00E+00	1.46E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.53E+02	0.00E+00	1.53E+02
		Ba-140	<8.55E+01	0.00E+00	8.55E+01
		Total-Gam	0.00E+00		
394942	10/7/2015 - 10/7/2015	Mn-54	<1.45E+01	0.00E+00	1.45E+01
		Co-58	<1.43E+01	0.00E+00	1.43E+01
		Fe-59	<4.18E+01	0.00E+00	4.18E+01
		Co-60	<1.61E+01	0.00E+00	1.61E+01
		Zn-65	<4.12E+01	0.00E+00	4.12E+01
		Zr-95	<2.48E+01	0.00E+00	2.48E+01
		Nb-95	<2.13E+01	0.00E+00	2.13E+01
		I-131	<8.04E+01	0.00E+00	8.04E+01
		Cs-134	<1.78E+01	0.00E+00	1.79E+01
		Cs-137	<1.52E+01	0.00E+00	1.52E+01
		La-140	<5.19E+04	0.00E+00	5.19E+04
		Ba-140	<1.57E+02	0.00E+00	1.57E+02
		Total-Gam	0.00E+00		
395055	10/13/2015 - 10/13/2015	Mn-54	<1.25E+01	0.00E+00	1.25E+01
		Co-58	<1.11E+01	0.00E+00	1.11E+01
		Fe-59	<3.86E+01	0.00E+00	3.86E+01
		Co-60	<9.27E+00	0.00E+00	9.27E+00
		Zn-65	<3.63E+01	0.00E+00	3.63E+01
		Zr-95	<3.31E+01	0.00E+00	3.31E+01
		Nb-95	<2.99E+01	0.00E+00	2.99E+01
		I-131	<5.20E+01	0.00E+00	5.20E+01
		Total-Gam	0.00E+00		



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395055	10/13/2015 - 10/13/2015	Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<6.39E+03	0.00E+00	6.39E+03
		Ba-140	<1.03E+02	0.00E+00	1.03E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395209	10/20/2015 - 10/20/2015	Mn-54	<1.74E+01	0.00E+00	1.74E+01
		Co-58	<1.98E+01	0.00E+00	1.98E+01
		Fe-59	<2.65E+01	0.00E+00	2.65E+01
		Co-60	<2.29E+01	0.00E+00	2.29E+01
		Zn-65	<2.53E+01	0.00E+00	2.53E+01
		Zr-95	<2.71E+01	0.00E+00	2.71E+01
		Nb-95	<2.05E+01	0.00E+00	2.05E+01
		I-131	<3.54E+01	0.00E+00	3.54E+01
		Cs-134	<9.56E+00	0.00E+00	9.56E+00
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<7.01E+02	0.00E+00	7.01E+02
		Ba-140	<8.34E+01	0.00E+00	8.34E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395239	10/27/2015 - 10/27/2015	Mn-54	<0.00E+00	0.00E+00	0.00E+00
		Co-58	<9.89E+00	0.00E+00	9.89E+00
		Fe-59	<3.21E+01	0.00E+00	3.21E+01
		Co-60	<1.30E+01	0.00E+00	1.30E+01
		Zn-65	<3.51E+01	0.00E+00	3.51E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<1.92E+01	0.00E+00	1.92E+01
		I-131	<1.60E+01	0.00E+00	1.60E+01
		Cs-134	<1.76E+01	0.00E+00	1.76E+01
		Cs-137	<1.91E+01	0.00E+00	1.91E+01
		La-140	<5.50E+01	0.00E+00	5.50E+01
		Ba-140	<6.22E+01	0.00E+00	6.22E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395808	11/3/2015 - 11/3/2015	Mn-54	<1.01E+01	0.00E+00	1.01E+01
		Co-58	<1.49E+01	0.00E+00	1.49E+01
		Fe-59	<2.51E+01	0.00E+00	2.51E+01
		Co-60	<2.45E+01	0.00E+00	2.45E+01
		Zn-65	<2.53E+01	0.00E+00	2.53E+01
		Zr-95	<2.56E+01	0.00E+00	2.56E+01
		Nb-95	<2.19E+01	0.00E+00	2.19E+01
		I-131	<3.53E+01	0.00E+00	3.53E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<0.00E+00	0.00E+00	0.00E+00
		La-140	<6.93E+02	0.00E+00	6.93E+02
		Ba-140	<8.33E+01	0.00E+00	8.33E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396080	11/11/2015 - 11/11/2015	Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<2.06E+01	0.00E+00	2.06E+01
		Fe-59	<1.70E+01	0.00E+00	1.70E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<2.49E+01	0.00E+00	2.49E+01
		Nb-95	<1.80E+01	0.00E+00	1.80E+01
		I-131	<2.59E+01	0.00E+00	2.59E+01
		Cs-134	<9.54E+00	0.00E+00	9.54E+00
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<1.60E+02	0.00E+00	1.60E+02
		Ba-140	<4.71E+01	0.00E+00	4.71E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l  
 Sample Point 1065 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396080	11/11/2015 - 11/11/2015	Total-Gam	0.00E+00		
397550	11/17/2015 - 11/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.02E+01	0.00E+00	1.02E+01
		Co-58	<1.12E+01	0.00E+00	1.12E+01
		Fe-59	<2.92E+01	0.00E+00	2.92E+01
		Co-60	<1.61E+01	0.00E+00	1.61E+01
		Zn-65	<3.15E+01	0.00E+00	3.15E+01
		Zr-95	<1.37E+01	0.00E+00	1.37E+01
		Nb-95	<1.96E+01	0.00E+00	1.96E+01
		I-131	<6.10E+01	0.00E+00	6.10E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.36E+01	0.00E+00	1.36E+01
		La-140	<6.73E+03	0.00E+00	6.73E+03
		Ba-140	<1.09E+02	0.00E+00	1.09E+02
		Total-Gam	0.00E+00		
397729	11/24/2015 - 11/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.13E+00	0.00E+00	7.13E+00
		Co-58	<1.31E+01	0.00E+00	1.31E+01
		Fe-59	<2.56E+01	0.00E+00	2.56E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.59E+01	0.00E+00	3.59E+01
		Zr-95	<2.59E+01	0.00E+00	2.59E+01
		Nb-95	<1.12E+01	0.00E+00	1.12E+01
		I-131	<2.10E+01	0.00E+00	2.10E+01
		Cs-134	<1.58E+01	0.00E+00	1.58E+01
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<8.08E+02	0.00E+00	8.08E+02
		Ba-140	<6.72E+01	0.00E+00	6.72E+01
		Total-Gam	0.00E+00		
398102	12/1/2015 - 12/1/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.09E+00	0.00E+00	7.09E+00
		Co-58	<1.28E+01	0.00E+00	1.28E+01
		Fe-59	<3.03E+01	0.00E+00	3.03E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.09E+01	0.00E+00	3.09E+01
		Zr-95	<2.53E+01	0.00E+00	2.53E+01
		Nb-95	<1.70E+01	0.00E+00	1.70E+01
		I-131	<2.62E+01	0.00E+00	2.62E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<3.35E+02	0.00E+00	3.35E+02
		Ba-140	<6.70E+01	0.00E+00	6.70E+01
		Total-Gam	0.00E+00		
398517	12/9/2015 - 12/9/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.64E+01	0.00E+00	1.64E+01
		Fe-59	<3.47E+01	0.00E+00	3.47E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.08E+01	0.00E+00	3.08E+01
		Zr-95	<3.33E+01	0.00E+00	3.33E+01
		Nb-95	<1.84E+01	0.00E+00	1.84E+01
		I-131	<2.86E+01	0.00E+00	2.86E+01
		Cs-134	<1.46E+01	0.00E+00	1.46E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<7.43E+02	0.00E+00	7.43E+02
		Ba-140	<5.78E+01	0.00E+00	5.78E+01
		Total-Gam	0.00E+00		
399035	12/15/2015 - 12/15/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.44E+01	0.00E+00	1.44E+01





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1065 [ INDICATOR - @ 0 miles ]

<b>Sample ID:</b> 399035	<b>Sample Dates:</b> 12/15/2015 - 12/15/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Co-58	<1.36E+01	0.00E+00	1.36E+01
		Fe-59	<3.33E+01	0.00E+00	3.33E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<4.44E+01	0.00E+00	4.44E+01
		Zr-95	<1.91E+01	0.00E+00	1.91E+01
		Nb-95	<2.42E+01	0.00E+00	2.42E+01
		I-131	<6.20E+01	0.00E+00	6.20E+01
		Cs-134	<1.75E+01	0.00E+00	1.75E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.98E+03	0.00E+00	3.98E+03
		Ba-140	<9.26E+01	0.00E+00	9.26E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 399048	<b>Sample Dates:</b> 12/23/2015 - 12/23/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.61E+01	0.00E+00	1.61E+01
		Co-58	<1.11E+01	0.00E+00	1.11E+01
		Fe-59	<4.06E+01	0.00E+00	4.06E+01
		Co-60	<9.26E+00	0.00E+00	9.26E+00
		Zn-65	<3.63E+01	0.00E+00	3.63E+01
		Zr-95	<3.31E+01	0.00E+00	3.31E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<5.09E+01	0.00E+00	5.09E+01
		Cs-134	<1.38E+01	0.00E+00	1.38E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<1.04E+04	0.00E+00	1.04E+04
		Ba-140	<1.10E+02	0.00E+00	1.10E+02
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 399143	<b>Sample Dates:</b> 12/29/2015 - 12/29/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.88E+01	0.00E+00	1.88E+01
		Co-58	<1.66E+01	0.00E+00	1.66E+01
		Fe-59	<2.48E+01	0.00E+00	2.48E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.57E+01	0.00E+00	3.57E+01
		Zr-95	<4.01E+01	0.00E+00	4.01E+01
		Nb-95	<1.52E+01	0.00E+00	1.52E+01
		I-131	<2.48E+01	0.00E+00	2.48E+01
		Cs-134	<7.80E+00	0.00E+00	7.80E+00
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<4.83E+02	0.00E+00	4.83E+02
		Ba-140	<7.35E+01	0.00E+00	7.35E+01
		Total-Gam	0.00E+00		

**Sample Point 1066 [ INDICATOR - @ 0 miles ]**

<b>Sample ID:</b> 379557	<b>Sample Dates:</b> 1/6/2015 - 1/6/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 379558	<b>Sample Dates:</b> 1/13/2015 - 1/13/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 379559	<b>Sample Dates:</b> 1/19/2015 - 1/19/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 379560	<b>Sample Dates:</b> 1/26/2015 - 1/26/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 379561	<b>Sample Dates:</b> 2/3/2015 - 2/3/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 379562	<b>Sample Dates:</b> 2/11/2015 - 2/11/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Total-Gam	0.00E+00		



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379563	2/18/2015 - 2/18/2015	Total-Gam	0.00E+00		
379564	2/25/2015 - 2/25/2015	Total-Gam	0.00E+00		
379565	3/4/2015 - 3/4/2015	Total-Gam	0.00E+00		
379566	3/10/2015 - 3/10/2015	Total-Gam	0.00E+00		
379567	3/18/2015 - 3/18/2015	Total-Gam	0.00E+00		
379568	3/24/2015 - 3/24/2015	Total-Gam	0.00E+00		
379569	3/31/2015 - 3/31/2015	Total-Gam	0.00E+00		
379570	4/7/2015 - 4/7/2015	Total-Gam	0.00E+00		
379571	4/15/2015 - 4/15/2015	Total-Gam	0.00E+00		
378634	4/21/2015 - 4/21/2015	Mn-54	<1.01E+01	0.00E+00	1.01E+01
		Co-58	<7.77E+00	0.00E+00	7.77E+00
		Fe-59	<2.82E+01	0.00E+00	2.82E+01
		Co-60	<9.26E+00	0.00E+00	9.26E+00
		Zn-65	<1.81E+01	0.00E+00	1.81E+01
		Zr-95	<1.89E+01	0.00E+00	1.89E+01
		Nb-95	<2.06E+01	0.00E+00	2.06E+01
		I-131	<4.85E+01	0.00E+00	4.85E+01
		Cs-134	<1.47E+01	0.00E+00	1.47E+01
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<3.79E+03	0.00E+00	3.79E+03
		Ba-140	<6.81E+01	0.00E+00	6.81E+01
		Total-Gam	0.00E+00		
379098	4/29/2015 - 4/29/2015	Mn-54	<1.60E+01	0.00E+00	1.60E+01
		Co-58	<1.35E+01	0.00E+00	1.35E+01
		Fe-59	<2.68E+01	0.00E+00	2.68E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01
		Zr-95	<2.32E+01	0.00E+00	2.32E+01
		Nb-95	<1.46E+01	0.00E+00	1.46E+01
		I-131	<5.28E+01	0.00E+00	5.28E+01
		Cs-134	<9.60E+00	0.00E+00	9.60E+00
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<4.05E+03	0.00E+00	4.05E+03
		Ba-140	<1.19E+02	0.00E+00	1.19E+02
		Total-Gam	0.00E+00		
379545	5/6/2015 - 5/6/2015	Mn-54	<1.43E+01	0.00E+00	1.43E+01
		Co-58	<1.33E+01	0.00E+00	1.33E+01
		Fe-59	<2.78E+01	0.00E+00	2.78E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<2.55E+01	0.00E+00	2.55E+01
		Zr-95	<2.29E+01	0.00E+00	2.29E+01
		Nb-95	<1.43E+01	0.00E+00	1.43E+01
		I-131	<3.89E+01	0.00E+00	3.89E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379545	5/6/2015 - 5/6/2015	Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<2.48E+03	0.00E+00	2.48E+03
		Ba-140	<7.44E+01	0.00E+00	7.44E+01
		Total-Gam	0.00E+00		
379694	5/12/2015 - 5/12/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.49E+01	0.00E+00	1.49E+01
		Fe-59	<2.51E+01	0.00E+00	2.51E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<2.53E+01	0.00E+00	2.53E+01
		Zr-95	<3.62E+01	0.00E+00	3.62E+01
		Nb-95	<1.73E+01	0.00E+00	1.73E+01
		I-131	<3.53E+01	0.00E+00	3.53E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<1.09E+03	0.00E+00	1.09E+03
		Ba-140	<7.70E+01	0.00E+00	7.70E+01
		Total-Gam	0.00E+00		
380595	5/19/2015 - 5/19/2015	Mn-54	<1.90E+01	0.00E+00	1.90E+01
		Co-58	<7.84E+00	0.00E+00	7.84E+00
		Fe-59	<2.72E+01	0.00E+00	2.72E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.63E+01	0.00E+00	3.63E+01
		Zr-95	<2.33E+01	0.00E+00	2.33E+01
		Nb-95	<8.57E+00	0.00E+00	8.57E+00
		I-131	<4.38E+01	0.00E+00	4.38E+01
		Cs-134	<1.57E+01	0.00E+00	1.57E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<7.78E+03	0.00E+00	7.78E+03
		Ba-140	<1.31E+02	0.00E+00	1.31E+02
		Total-Gam	0.00E+00		
380743	5/26/2015 - 5/26/2015	Mn-54	<1.01E+01	0.00E+00	1.01E+01
		Co-58	<1.50E+01	0.00E+00	1.50E+01
		Fe-59	<4.60E+01	0.00E+00	4.60E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<1.79E+01	0.00E+00	1.79E+01
		Zr-95	<1.81E+01	0.00E+00	1.81E+01
		Nb-95	<2.33E+01	0.00E+00	2.33E+01
		I-131	<4.06E+01	0.00E+00	4.06E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<1.04E+03	0.00E+00	1.04E+03
		Ba-140	<7.77E+01	0.00E+00	7.77E+01
		Total-Gam	0.00E+00		
380943	6/2/2015 - 6/2/2015	Mn-54	<1.41E+01	0.00E+00	1.41E+01
		Co-58	<1.63E+01	0.00E+00	1.63E+01
		Fe-59	<2.54E+01	0.00E+00	2.54E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.97E+01	0.00E+00	3.97E+01
		Zr-95	<1.76E+01	0.00E+00	1.76E+01
		Nb-95	<1.27E+01	0.00E+00	1.27E+01
		I-131	<1.99E+01	0.00E+00	1.99E+01
		Cs-134	<1.46E+01	0.00E+00	1.46E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.63E+02	0.00E+00	1.63E+02
		Ba-140	<7.21E+01	0.00E+00	7.21E+01
		Total-Gam	0.00E+00		



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

Media Type: SURFACE WATER Concentration (Activity): pCi/l  
 Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380943	6/2/2015 - 6/2/2015	Total-Gam	0.00E+00		
381451	6/9/2015 - 6/9/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.06E+01	0.00E+00	1.06E+01
		Fe-59	<4.70E+01	0.00E+00	4.70E+01
		Co-60	<1.77E+01	0.00E+00	1.77E+01
		Zn-65	<1.79E+01	0.00E+00	1.79E+01
		Zr-95	<3.13E+01	0.00E+00	3.13E+01
		Nb-95	<7.74E+00	0.00E+00	7.74E+00
		I-131	<3.12E+01	0.00E+00	3.12E+01
		Cs-134	<7.91E+00	0.00E+00	7.91E+00
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.09E+03	0.00E+00	1.09E+03
		Ba-140	<8.88E+01	0.00E+00	8.88E+01
		Total-Gam	0.00E+00		
381767	6/16/2015 - 6/16/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.81E+01	0.00E+00	1.82E+01
		Fe-59	<1.76E+01	0.00E+00	1.76E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.57E+01	0.00E+00	3.57E+01
		Zr-95	<2.54E+01	0.00E+00	2.54E+01
		Nb-95	<1.71E+01	0.00E+00	1.71E+01
		I-131	<3.06E+01	0.00E+00	3.06E+01
		Cs-134	<7.90E+00	0.00E+00	7.90E+00
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		La-140	<6.21E+02	0.00E+00	6.21E+02
		Ba-140	<8.54E+01	0.00E+00	8.54E+01
		Total-Gam	0.00E+00		
381970	6/23/2015 - 6/23/2015	Mn-54	<9.89E+00	0.00E+00	9.89E+00
		Co-58	<1.00E+02	0.00E+00	1.00E+02
		Fe-59	<2.25E+01	0.00E+00	2.25E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.92E+01	0.00E+00	3.92E+01
		Zr-95	<1.67E+01	0.00E+00	1.67E+01
		Nb-95	<1.65E+01	0.00E+00	1.65E+01
		I-131	<1.77E+01	0.00E+00	1.77E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<9.57E+00	0.00E+00	9.57E+00
		La-140	<2.56E+01	0.00E+00	2.56E+01
		Ba-140	<4.27E+01	0.00E+00	4.27E+01
		Total-Gam	0.00E+00		
382351	6/30/2015 - 6/30/2015	Mn-54	<1.21E+01	0.00E+00	1.21E+01
		Co-58	<1.55E+01	0.00E+00	1.55E+01
		Fe-59	<2.23E+01	0.00E+00	2.23E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<2.47E+01	0.00E+00	2.47E+01
		Zr-95	<2.87E+01	0.00E+00	2.87E+01
		Nb-95	<9.42E+00	0.00E+00	9.42E+00
		I-131	<1.69E+01	0.00E+00	1.69E+01
		Cs-134	<1.57E+01	0.00E+00	1.57E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<3.59E+01	0.00E+00	3.59E+01
		Ba-140	<6.24E+01	0.00E+00	6.24E+01
		Total-Gam	0.00E+00		
383477	7/7/2015 - 7/7/2015	Mn-54	<2.03E+01	0.00E+00	2.03E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383477	7/7/2015 - 7/7/2015	Co-58	<2.07E+01	0.00E+00	2.07E+01
		Fe-59	<4.95E+01	0.00E+00	4.95E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<3.63E+01	0.00E+00	3.63E+01
		Zr-95	<3.02E+01	0.00E+00	3.02E+01
		Nb-95	<1.91E+01	0.00E+00	1.91E+01
		I-131	<4.08E+01	0.00E+00	4.08E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<1.36E+01	0.00E+00	1.35E+01
		La-140	<6.48E+03	0.00E+00	6.48E+03
		Ba-140	<7.11E+01	0.00E+00	7.11E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383961	7/14/2015 - 7/14/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.66E+01	0.00E+00	1.66E+01
		Fe-59	<3.04E+01	0.00E+00	3.04E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.09E+01	0.00E+00	3.09E+01
		Zr-95	<3.09E+01	0.00E+00	3.09E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<3.17E+01	0.00E+00	3.17E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<7.83E+02	0.00E+00	7.83E+02
		Ba-140	<6.01E+01	0.00E+00	6.01E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384789	7/22/2015 - 7/22/2015	Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<1.25E+01	0.00E+00	1.25E+01
		Fe-59	<1.69E+01	0.00E+00	1.69E+01
		Co-60	<2.05E+01	0.00E+00	2.05E+01
		Zn-65	<4.34E+01	0.00E+00	4.34E+01
		Zr-95	<3.50E+01	0.00E+00	3.50E+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	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<1.36E+02	0.00E+00	1.36E+02
		Ba-140	<5.32E+01	0.00E+00	5.32E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384884	7/28/2015 - 7/28/2015	Mn-54	<9.86E+00	0.00E+00	9.86E+00
		Co-58	<1.81E+01	0.00E+00	1.81E+01
		Fe-59	<3.11E+01	0.00E+00	3.11E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.02E+01	0.00E+00	3.02E+01
		Zr-95	<2.84E+01	0.00E+00	2.84E+01
		Nb-95	<1.13E+01	0.00E+00	1.13E+01
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<1.45E+01	0.00E+00	1.45E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<2.89E+01	0.00E+00	2.89E+01
		Ba-140	<5.91E+01	0.00E+00	5.91E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
386034	8/4/2015 - 8/4/2015	Mn-54	<2.23E+01	0.00E+00	2.23E+01
		Co-58	<1.78E+01	0.00E+00	1.78E+01
		Fe-59	<1.70E+01	0.00E+00	1.70E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
386034	8/4/2015 - 8/4/2015	Zr-95	<3.28E+01	0.00E+00	3.28E+01
		Nb-95	<2.07E+01	0.00E+00	2.07E+01
		I-131	<2.09E+01	0.00E+00	2.09E+01
		Cs-134	<7.79E+00	0.00E+00	7.79E+00
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<2.08E+02	0.00E+00	2.08E+02
		Ba-140	<2.69E+01	0.00E+00	2.69E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
386300	8/11/2015 - 8/11/2015	Mn-54	<6.99E+00	0.00E+00	6.99E+00
		Co-58	<1.83E+01	0.00E+00	1.83E+01
		Fe-59	<1.58E+01	0.00E+00	1.58E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.03E+01	0.00E+00	3.03E+01
		Zr-95	<2.49E+01	0.00E+00	2.49E+01
		Nb-95	<9.42E+00	0.00E+00	9.42E+00
		I-131	<1.69E+01	0.00E+00	1.69E+01
		Cs-134	<1.45E+01	0.00E+00	1.45E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<2.93E+01	0.00E+00	2.93E+01
		Ba-140	<3.60E+01	0.00E+00	3.60E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
387255	8/18/2015 - 8/18/2015	Mn-54	<1.56E+01	0.00E+00	1.56E+01
		Co-58	<1.21E+01	0.00E+00	1.21E+01
		Fe-59	<2.76E+01	0.00E+00	2.76E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.51E+01	0.00E+00	3.51E+01
		Zr-95	<2.37E+01	0.00E+00	2.37E+01
		Nb-95	<1.79E+01	0.00E+00	1.79E+01
		I-131	<1.72E+01	0.00E+00	1.72E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.92E+01	0.00E+00	3.92E+01
		Ba-140	<7.48E+01	0.00E+00	7.48E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
388443	8/26/2015 - 8/26/2015	Mn-54	<1.87E+01	0.00E+00	1.87E+01
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<3.54E+01	0.00E+00	3.54E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.96E+01	0.00E+00	3.96E+01
		Zr-95	<2.75E+01	0.00E+00	2.75E+01
		Nb-95	<1.44E+01	0.00E+00	1.44E+01
		I-131	<2.08E+01	0.00E+00	2.08E+01
		Cs-134	<7.88E+00	0.00E+00	7.88E+00
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.57E+02	0.00E+00	1.57E+02
		Ba-140	<8.59E+01	0.00E+00	8.59E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389509	9/1/2015 - 9/1/2015	Mn-54	<1.88E+01	0.00E+00	1.88E+01
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<4.29E+01	0.00E+00	4.29E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<1.78E+01	0.00E+00	1.78E+01
		Zr-95	<1.55E+01	0.00E+00	1.55E+01
		Nb-95	<1.86E+01	0.00E+00	1.86E+01
		I-131	<3.26E+01	0.00E+00	3.26E+01
		Cs-134	<1.83E+01	0.00E+00	1.83E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389509	9/1/2015 - 9/1/2015	Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<5.74E+02	0.00E+00	5.74E+02
		Ba-140	<5.18E+01	0.00E+00	5.18E+01
		Total-Gam	0.00E+00		
390135	9/9/2015 - 9/9/2015	Mn-54	<1.00E+01	0.00E+00	1.00E+01
		Co-58	<1.64E+01	0.00E+00	1.64E+01
		Fe-59	<3.88E+01	0.00E+00	3.88E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<3.98E+01	0.00E+00	3.98E+01
		Zr-95	<2.52E+01	0.00E+00	2.52E+01
		Nb-95	<1.68E+01	0.00E+00	1.68E+01
		I-131	<2.74E+01	0.00E+00	2.74E+01
		Cs-134	<1.58E+01	0.00E+00	1.58E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<2.59E+02	0.00E+00	2.59E+02
		Ba-140	<5.01E+01	0.00E+00	5.01E+01
		Total-Gam	0.00E+00		
390867	9/15/2015 - 9/15/2015	Mn-54	<7.08E+00	0.00E+00	7.07E+00
		Co-58	<1.46E+01	0.00E+00	1.46E+01
		Fe-59	<2.43E+01	0.00E+00	2.43E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<1.78E+01	0.00E+00	1.78E+01
		Zr-95	<1.77E+01	0.00E+00	1.77E+01
		Nb-95	<1.05E+01	0.00E+00	1.05E+01
		I-131	<3.36E+01	0.00E+00	3.36E+01
		Cs-134	<1.74E+01	0.00E+00	1.74E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<4.19E+02	0.00E+00	4.19E+02
		Ba-140	<7.45E+01	0.00E+00	7.45E+01
		Total-Gam	0.00E+00		
392089	9/22/2015 - 9/22/2015	Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<1.26E+01	0.00E+00	1.26E+01
		Fe-59	<2.94E+01	0.00E+00	2.94E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.96E+01	0.00E+00	3.96E+01
		Zr-95	<3.28E+01	0.00E+00	3.28E+01
		Nb-95	<1.94E+01	0.00E+00	1.94E+01
		I-131	<2.56E+01	0.00E+00	2.56E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<2.40E+02	0.00E+00	2.40E+02
		Ba-140	<8.94E+01	0.00E+00	8.94E+01
		Total-Gam	0.00E+00		
392571	9/29/2015 - 9/29/2015	Mn-54	<1.41E+01	0.00E+00	1.41E+01
		Co-58	<1.26E+01	0.00E+00	1.26E+01
		Fe-59	<4.17E+01	0.00E+00	4.17E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.55E+01	0.00E+00	3.55E+01
		Zr-95	<3.04E+01	0.00E+00	3.04E+01
		Nb-95	<2.20E+01	0.00E+00	2.20E+01
		I-131	<2.35E+01	0.00E+00	2.35E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<1.55E+02	0.00E+00	1.55E+02
		Ba-140	<8.98E+01	0.00E+00	8.98E+01
		Total-Gam	0.00E+00		



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
394944	10/7/2015 - 10/7/2015	Mn-54	<1.46E+01	0.00E+00	1.46E+01
		Co-58	<1.18E+01	0.00E+00	1.18E+01
		Fe-59	<3.15E+01	0.00E+00	3.15E+01
		Co-60	<2.06E+01	0.00E+00	2.06E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<2.89E+01	0.00E+00	2.89E+01
		Nb-95	<1.94E+01	0.00E+00	1.94E+01
		I-131	<9.30E+01	0.00E+00	9.30E+01
		Cs-134	<1.13E+01	0.00E+00	1.13E+01
		Cs-137	<9.59E+00	0.00E+00	9.59E+00
		La-140	<1.15E+05	0.00E+00	1.15E+05
		Ba-140	<1.64E+02	0.00E+00	1.64E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395056	10/13/2015 - 10/13/2015	Mn-54	<1.61E+01	0.00E+00	1.61E+01
		Co-58	<1.38E+01	0.00E+00	1.38E+01
		Fe-59	<2.92E+01	0.00E+00	2.92E+01
		Co-60	<1.78E+01	0.00E+00	1.78E+01
		Zn-65	<3.15E+01	0.00E+00	3.15E+01
		Zr-95	<3.36E+01	0.00E+00	3.36E+01
		Nb-95	<2.64E+01	0.00E+00	2.64E+01
		I-131	<6.12E+01	0.00E+00	6.12E+01
		Cs-134	<1.47E+01	0.00E+00	1.47E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<6.83E+03	0.00E+00	6.83E+03
		Ba-140	<8.89E+01	0.00E+00	8.89E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395210	10/20/2015 - 10/20/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.49E+01	0.00E+00	1.49E+01
		Fe-59	<2.51E+01	0.00E+00	2.51E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<4.73E+01	0.00E+00	4.73E+01
		Zr-95	<3.49E+01	0.00E+00	3.49E+01
		Nb-95	<1.55E+01	0.00E+00	1.55E+01
		I-131	<3.91E+01	0.00E+00	3.91E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<8.65E+02	0.00E+00	8.65E+02
		Ba-140	<8.92E+01	0.00E+00	8.92E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395240	10/27/2015 - 10/27/2015	Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<7.26E+00	0.00E+00	7.26E+00
		Fe-59	<2.53E+01	0.00E+00	2.53E+01
		Co-60	<2.07E+01	0.00E+00	2.07E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<2.15E+01	0.00E+00	2.15E+01
		Nb-95	<2.32E+01	0.00E+00	2.32E+01
		I-131	<1.48E+01	0.00E+00	1.48E+01
		Cs-134	<7.89E+00	0.00E+00	7.89E+00
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<1.52E+02	0.00E+00	1.52E+02
		Ba-140	<7.64E+01	0.00E+00	7.64E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395809	11/3/2015 - 11/3/2015	Mn-54	<2.01E+01	0.00E+00	2.01E+01
		Co-58	<1.65E+01	0.00E+00	1.65E+01
		Fe-59	<2.61E+01	0.00E+00	2.61E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01





# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395809	11/3/2015 - 11/3/2015	Zn-65	<3.99E+01	0.00E+00	3.99E+01
		Zr-95	<2.53E+01	0.00E+00	2.53E+01
		Nb-95	<1.52E+01	0.00E+00	1.52E+01
		I-131	<2.77E+01	0.00E+00	2.77E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<6.07E+02	0.00E+00	6.07E+02
		Ba-140	<7.35E+01	0.00E+00	7.35E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
396081	11/11/2015 - 11/11/2015	Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<1.78E+01	0.00E+00	1.78E+01
		Fe-59	<1.70E+01	0.00E+00	1.70E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<4.35E+01	0.00E+00	4.35E+01
		Zr-95	<1.52E+01	0.00E+00	1.52E+01
		Nb-95	<1.27E+01	0.00E+00	1.27E+01
		I-131	<2.99E+01	0.00E+00	2.99E+01
		Cs-134	<1.65E+01	0.00E+00	1.65E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<2.78E+02	0.00E+00	2.78E+02
		Ba-140	<6.66E+01	0.00E+00	6.66E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
397551	11/17/2015 - 11/17/2015	Mn-54	<1.62E+01	0.00E+00	1.62E+01
		Co-58	<1.60E+01	0.00E+00	1.60E+01
		Fe-59	<1.99E+01	0.00E+00	1.99E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<4.08E+01	0.00E+00	4.08E+01
		Zr-95	<2.93E+01	0.00E+00	2.93E+01
		Nb-95	<2.19E+01	0.00E+00	2.19E+01
		I-131	<5.88E+01	0.00E+00	5.88E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<1.75E+04	0.00E+00	1.75E+04
		Ba-140	<8.10E+01	0.00E+00	8.10E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
397730	11/24/2015 - 11/24/2015	Mn-54	<1.01E+01	0.00E+00	1.01E+01
		Co-58	<7.56E+00	0.00E+00	7.55E+00
		Fe-59	<3.14E+01	0.00E+00	3.14E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<4.01E+01	0.00E+00	4.01E+01
		Zr-95	<2.74E+01	0.00E+00	2.74E+01
		Nb-95	<1.95E+01	0.00E+00	1.95E+01
		I-131	<3.48E+01	0.00E+00	3.48E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<1.62E+03	0.00E+00	1.62E+03
		Ba-140	<9.51E+01	0.00E+00	9.51E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398103	12/1/2015 - 12/1/2015	Mn-54	<1.59E+01	0.00E+00	1.59E+01
		Co-58	<1.49E+01	0.00E+00	1.49E+01
		Fe-59	<2.51E+01	0.00E+00	2.51E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.10E+01	0.00E+00	3.10E+01
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<2.32E+01	0.00E+00	2.32E+01
		I-131	<3.11E+01	0.00E+00	3.11E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398103	12/1/2015 - 12/1/2015	Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<1.25E+03	0.00E+00	1.25E+03
		Ba-140	<8.29E+01	0.00E+00	8.29E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398518	12/9/2015 - 12/9/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<3.51E+01	0.00E+00	3.51E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<4.72E+01	0.00E+00	4.72E+01
		Zr-95	<2.84E+01	0.00E+00	2.84E+01
		Nb-95	<2.02E+01	0.00E+00	2.02E+01
		I-131	<2.92E+01	0.00E+00	2.92E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<2.14E+01	0.00E+00	2.14E+01
		La-140	<6.03E+02	0.00E+00	6.03E+02
		Ba-140	<7.37E+01	0.00E+00	7.37E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399036	12/15/2015 - 12/15/2015	Mn-54	<1.61E+01	0.00E+00	1.61E+01
		Co-58	<1.11E+01	0.00E+00	1.11E+01
		Fe-59	<1.93E+01	0.00E+00	1.93E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<4.06E+01	0.00E+00	4.06E+01
		Zr-95	<2.34E+01	0.00E+00	2.34E+01
		Nb-95	<2.27E+01	0.00E+00	2.27E+01
		I-131	<5.35E+01	0.00E+00	5.35E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<6.04E+03	0.00E+00	6.04E+03
		Ba-140	<1.02E+02	0.00E+00	1.02E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399049	12/23/2015 - 12/23/2015	Mn-54	<1.44E+01	0.00E+00	1.44E+01
		Co-58	<1.93E+01	0.00E+00	1.93E+01
		Fe-59	<4.31E+01	0.00E+00	4.31E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.14E+01	0.00E+00	3.14E+01
		Zr-95	<1.92E+01	0.00E+00	1.92E+01
		Nb-95	<2.28E+01	0.00E+00	2.28E+01
		I-131	<3.93E+01	0.00E+00	3.93E+01
		Cs-134	<1.75E+01	0.00E+00	1.75E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<1.04E+04	0.00E+00	1.04E+04
		Ba-140	<9.36E+01	0.00E+00	9.36E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399144	12/29/2015 - 12/29/2015	Mn-54	<2.01E+01	0.00E+00	2.01E+01
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<2.62E+01	0.00E+00	2.62E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<2.52E+01	0.00E+00	2.52E+01
		Zr-95	<2.54E+01	0.00E+00	2.54E+01
		Nb-95	<1.08E+01	0.00E+00	1.08E+01
		I-131	<2.80E+01	0.00E+00	2.80E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<5.07E+02	0.00E+00	5.07E+02
		Ba-140	<7.40E+01	0.00E+00	7.40E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1066 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399144	12/29/2015 - 12/29/2015	Total-Gam	0.00E+00		

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379580	1/6/2015 - 1/6/2015	Total-Gam	0.00E+00		
379581	1/13/2015 - 1/13/2015	Total-Gam	0.00E+00		
379582	1/19/2015 - 1/19/2015	Total-Gam	0.00E+00		
379583	1/26/2015 - 1/26/2015	Total-Gam	0.00E+00		
379584	2/3/2015 - 2/3/2015	Total-Gam	0.00E+00		
379585	2/11/2015 - 2/11/2015	Total-Gam	0.00E+00		
379586	2/18/2015 - 2/18/2015	Total-Gam	0.00E+00		
379587	2/24/2015 - 2/24/2015	Total-Gam	0.00E+00		
379588	3/4/2015 - 3/4/2015	Total-Gam	0.00E+00		
379589	3/10/2015 - 3/10/2015	Total-Gam	0.00E+00		
379590	3/18/2015 - 3/18/2015	Total-Gam	0.00E+00		
379592	3/24/2015 - 3/24/2015	Total-Gam	0.00E+00		
379593	3/31/2015 - 3/31/2015	Total-Gam	0.00E+00		
379594	4/7/2015 - 4/7/2015	Total-Gam	0.00E+00		
379595	4/15/2015 - 4/15/2015	Total-Gam	0.00E+00		
378635	4/21/2015 - 4/21/2015	Mn-54	<1.44E+01	0.00E+00	1.44E+01
		Co-58	<1.57E+01	0.00E+00	1.57E+01
		Fe-59	<2.72E+01	0.00E+00	2.72E+01
		Co-60	<1.78E+01	0.00E+00	1.78E+01
		Zn-65	<3.14E+01	0.00E+00	3.14E+01
		Zr-95	<1.91E+01	0.00E+00	1.91E+01
		Nb-95	<1.92E+01	0.00E+00	1.92E+01
		I-131	<6.07E+01	0.00E+00	6.07E+01
		Cs-134	<9.61E+00	0.00E+00	9.61E+00
		Cs-137	<1.36E+01	0.00E+00	1.36E+01
		La-140	<5.82E+03	0.00E+00	5.82E+03
		Ba-140	<9.30E+01	0.00E+00	9.30E+01
		Total-Gam	0.00E+00		
379099	4/29/2015 - 4/29/2015	Mn-54	<1.44E+01	0.00E+00	1.44E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379099	4/29/2015 - 4/29/2015	Co-58	<1.35E+01	0.00E+00	1.35E+01
		Fe-59	<3.80E+01	0.00E+00	3.80E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01
		Zr-95	<1.90E+01	0.00E+00	1.90E+01
		Nb-95	<8.45E+00	0.00E+00	8.45E+00
		I-131	<4.76E+01	0.00E+00	4.76E+01
		Cs-134	<1.57E+01	0.00E+00	1.57E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<5.95E+03	0.00E+00	5.95E+03
		Ba-140	<9.76E+01	0.00E+00	9.76E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379546	5/6/2015 - 5/6/2015	Mn-54	<1.24E+01	0.00E+00	1.24E+01
		Co-58	<1.89E+01	0.00E+00	1.89E+01
		Fe-59	<2.64E+01	0.00E+00	2.64E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<4.03E+01	0.00E+00	4.03E+01
		Zr-95	<2.29E+01	0.00E+00	2.29E+01
		Nb-95	<2.18E+01	0.00E+00	2.18E+01
		I-131	<4.47E+01	0.00E+00	4.47E+01
		Cs-134	<1.75E+01	0.00E+00	1.75E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<3.14E+03	0.00E+00	3.14E+03
		Ba-140	<1.12E+02	0.00E+00	1.12E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
379695	5/12/2015 - 5/12/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.49E+01	0.00E+00	1.49E+01
		Fe-59	<3.08E+01	0.00E+00	3.08E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<4.38E+01	0.00E+00	4.38E+01
		Zr-95	<2.56E+01	0.00E+00	2.56E+01
		Nb-95	<1.34E+01	0.00E+00	1.34E+01
		I-131	<2.11E+01	0.00E+00	2.11E+01
		Cs-134	<1.56E+01	0.00E+00	1.56E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<8.50E+02	0.00E+00	8.50E+02
		Ba-140	<5.45E+01	0.00E+00	5.45E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380597	5/19/2015 - 5/19/2015	Mn-54	<1.44E+01	0.00E+00	1.44E+01
		Co-58	<2.22E+01	0.00E+00	2.22E+01
		Fe-59	<5.44E+01	0.00E+00	5.44E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<3.14E+01	0.00E+00	3.14E+01
		Zr-95	<2.70E+01	0.00E+00	2.70E+01
		Nb-95	<1.72E+01	0.00E+00	1.72E+01
		I-131	<5.09E+01	0.00E+00	5.09E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<9.22E+03	0.00E+00	9.22E+03
		Ba-140	<8.31E+01	0.00E+00	8.31E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
380744	5/26/2015 - 5/26/2015	Mn-54	<1.43E+01	0.00E+00	1.43E+01
		Co-58	<1.10E+01	0.00E+00	1.10E+01
		Fe-59	<3.77E+01	0.00E+00	3.77E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

<b>Sample ID:</b> 380744	<b>Sample Dates:</b> 5/26/2015 - 5/26/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Zr-95	<1.89E+01	0.00E+00	1.89E+01
		Nb-95	<1.45E+01	0.00E+00	1.45E+01
		I-131	<4.18E+01	0.00E+00	4.18E+01
		Cs-134	<1.57E+01	0.00E+00	1.57E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<3.46E+03	0.00E+00	3.46E+03
		Ba-140	<1.23E+02	0.00E+00	1.23E+02
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 380944	<b>Sample Dates:</b> 6/2/2015 - 6/2/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<1.78E+01	0.00E+00	1.78E+01
		Fe-59	<3.41E+01	0.00E+00	3.41E+01
		Co-60	<9.24E+00	0.00E+00	9.24E+00
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<2.15E+01	0.00E+00	2.15E+01
		Nb-95	<2.33E+01	0.00E+00	2.33E+01
		I-131	<2.39E+01	0.00E+00	2.39E+01
		Cs-134	<1.91E+01	0.00E+00	1.91E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<4.01E+02	0.00E+00	4.01E+02
		Ba-140	<6.69E+01	0.00E+00	6.69E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 381452	<b>Sample Dates:</b> 6/9/2015 - 6/9/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.60E+01	0.00E+00	1.60E+01
		Co-58	<1.34E+01	0.00E+00	1.34E+01
		Fe-59	<2.82E+01	0.00E+00	2.82E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01
		Zr-95	<1.63E+01	0.00E+00	1.63E+01
		Nb-95	<1.68E+01	0.00E+00	1.68E+01
		I-131	<4.40E+01	0.00E+00	4.40E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		La-140	<2.50E+03	0.00E+00	2.50E+03
		Ba-140	<7.79E+01	0.00E+00	7.79E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 381768	<b>Sample Dates:</b> 6/16/2015 - 6/16/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.42E+01	0.00E+00	1.42E+01
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<2.62E+01	0.00E+00	2.62E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<4.37E+01	0.00E+00	4.37E+01
		Zr-95	<1.80E+01	0.00E+00	1.80E+01
		Nb-95	<2.42E+01	0.00E+00	2.42E+01
		I-131	<3.08E+01	0.00E+00	3.08E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.67E+02	0.00E+00	3.67E+02
		Ba-140	<8.02E+01	0.00E+00	8.02E+01
		Total-Gam	0.00E+00		

<b>Sample ID:</b> 381971	<b>Sample Dates:</b> 6/23/2015 - 6/23/2015	<b>Nuclide</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
		Mn-54	<1.40E+01	0.00E+00	1.40E+01
		Co-58	<1.21E+01	0.00E+00	1.21E+01
		Fe-59	<1.59E+01	0.00E+00	1.59E+01
		Co-60	<1.30E+01	0.00E+00	1.30E+01
		Zn-65	<3.50E+01	0.00E+00	3.50E+01
		Zr-95	<2.05E+01	0.00E+00	2.05E+01
		Nb-95	<1.51E+01	0.00E+00	1.51E+01
		I-131	<1.71E+01	0.00E+00	1.71E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
381971	6/23/2015 - 6/23/2015	Cs-137	<9.57E+00	0.00E+00	9.57E+00
		La-140	<6.02E+01	0.00E+00	6.02E+01
		Ba-140	<6.08E+01	0.00E+00	6.08E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
382352	6/30/2015 - 6/30/2015	Mn-54	<9.88E+00	0.00E+00	9.88E+00
		Co-58	<6.93E+00	0.00E+00	6.93E+00
		Fe-59	<2.35E+01	0.00E+00	2.35E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.91E+01	0.00E+00	3.91E+01
		Zr-95	<2.88E+01	0.00E+00	2.88E+01
		Nb-95	<1.63E+01	0.00E+00	1.63E+01
		I-131	<1.70E+01	0.00E+00	1.70E+01
		Cs-134	<9.50E+00	0.00E+00	9.50E+00
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<2.12E+01	0.00E+00	2.12E+01
		Ba-140	<4.66E+01	0.00E+00	4.66E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383478	7/7/2015 - 7/7/2015	Mn-54	<1.61E+01	0.00E+00	1.61E+01
		Co-58	<1.57E+01	0.00E+00	1.57E+01
		Fe-59	<3.84E+01	0.00E+00	3.84E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<2.56E+01	0.00E+00	2.56E+01
		Zr-95	<4.04E+01	0.00E+00	4.04E+01
		Nb-95	<2.42E+01	0.00E+00	2.42E+01
		I-131	<5.41E+01	0.00E+00	5.41E+01
		Cs-134	<1.11E+01	0.00E+00	1.11E+01
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<7.43E+03	0.00E+00	7.43E+03
		Ba-140	<9.20E+01	0.00E+00	9.20E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
383962	7/14/2015 - 7/14/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<1.76E+01	0.00E+00	1.76E+01
		Co-60	<2.26E+01	0.00E+00	2.26E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<1.80E+01	0.00E+00	1.80E+01
		Nb-95	<1.08E+01	0.00E+00	1.08E+01
		I-131	<3.20E+01	0.00E+00	3.20E+01
		Cs-134	<1.46E+01	0.00E+00	1.46E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<2.93E+02	0.00E+00	2.93E+02
		Ba-140	<5.25E+01	0.00E+00	5.25E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384790	7/22/2015 - 7/22/2015	Mn-54	<1.58E+01	0.00E+00	1.58E+01
		Co-58	<1.03E+01	0.00E+00	1.03E+01
		Fe-59	<3.39E+01	0.00E+00	3.39E+01
		Co-60	<2.26E+01	0.00E+00	2.26E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<2.15E+01	0.00E+00	2.15E+01
		Nb-95	<2.53E+01	0.00E+00	2.53E+01
		I-131	<1.93E+01	0.00E+00	1.93E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<3.35E+02	0.00E+00	3.35E+02
		Ba-140	<5.35E+01	0.00E+00	5.35E+01
		Total-Gam	0.00E+00		



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
384885	7/28/2015 - 7/28/2015	Mn-54	<1.21E+01	0.00E+00	1.21E+01
		Co-58	<1.37E+01	0.00E+00	1.37E+01
		Fe-59	<2.70E+01	0.00E+00	2.70E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.02E+01	0.00E+00	3.02E+01
		Zr-95	<2.01E+01	0.00E+00	2.01E+01
		Nb-95	<1.73E+01	0.00E+00	1.73E+01
		I-131	<1.50E+01	0.00E+00	1.50E+01
		Cs-134	<7.84E+00	0.00E+00	7.84E+00
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<3.47E+01	0.00E+00	3.47E+01
		Ba-140	<5.95E+01	0.00E+00	5.95E+01
		Total-Gam	0.00E+00		
		386035	8/4/2015 - 8/4/2015	Mn-54	<1.22E+01
Co-58	<1.62E+01			0.00E+00	1.62E+01
Fe-59	<2.40E+01			0.00E+00	2.40E+01
Co-60	<1.60E+01			0.00E+00	1.60E+01
Zn-65	<1.77E+01			0.00E+00	1.77E+01
Zr-95	<1.76E+01			0.00E+00	1.76E+01
Nb-95	<1.94E+01			0.00E+00	1.94E+01
I-131	<2.34E+01			0.00E+00	2.34E+01
Cs-134	<1.10E+01			0.00E+00	1.10E+01
Cs-137	<1.79E+01			0.00E+00	1.79E+01
La-140	<2.75E+02			0.00E+00	2.75E+02
Ba-140	<7.64E+01			0.00E+00	7.64E+01
Total-Gam	0.00E+00				
386301	8/11/2015 - 8/11/2015			Mn-54	<1.85E+01
		Co-58	<1.21E+01	0.00E+00	1.21E+01
		Fe-59	<2.39E+01	0.00E+00	2.39E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.51E+01	0.00E+00	3.51E+01
		Zr-95	<2.51E+01	0.00E+00	2.51E+01
		Nb-95	<1.18E+01	0.00E+00	1.18E+01
		I-131	<1.75E+01	0.00E+00	1.75E+01
		Cs-134	<1.90E+01	0.00E+00	1.90E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<3.03E+01	0.00E+00	3.03E+01
		Ba-140	<6.55E+01	0.00E+00	6.55E+01
		Total-Gam	0.00E+00		
		387256	8/18/2015 - 8/18/2015	Mn-54	<1.85E+01
Co-58	<2.09E+01			0.00E+00	2.09E+01
Fe-59	<2.26E+01			0.00E+00	2.26E+01
Co-60	<1.30E+01			0.00E+00	1.30E+01
Zn-65	<3.04E+01			0.00E+00	3.04E+01
Zr-95	<3.14E+01			0.00E+00	3.14E+01
Nb-95	<1.17E+01			0.00E+00	1.17E+01
I-131	<1.81E+01			0.00E+00	1.81E+01
Cs-134	<1.45E+01			0.00E+00	1.45E+01
Cs-137	<1.17E+01			0.00E+00	1.17E+01
La-140	<4.91E+01			0.00E+00	4.91E+01
Ba-140	<5.31E+01			0.00E+00	5.31E+01
Total-Gam	0.00E+00				
388444	8/27/2015 - 8/27/2015			Mn-54	<1.22E+01
		Co-58	<2.14E+01	0.00E+00	2.14E+01
		Fe-59	<3.49E+01	0.00E+00	3.49E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Total-Gam	0.00E+00		



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
388444	8/27/2015 - 8/27/2015	Zn-65	<3.53E+01	0.00E+00	3.53E+01
		Zr-95	<2.10E+01	0.00E+00	2.10E+01
		Nb-95	<1.74E+01	0.00E+00	1.74E+01
		I-131	<2.63E+01	0.00E+00	2.63E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<1.06E+02	0.00E+00	1.06E+02
		Ba-140	<8.52E+01	0.00E+00	8.52E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
389510	9/1/2015 - 9/1/2015	Mn-54	<1.00E+01	0.00E+00	1.00E+01
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<3.51E+01	0.00E+00	3.51E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.09E+01	0.00E+00	3.09E+01
		Zr-95	<2.54E+01	0.00E+00	2.54E+01
		Nb-95	<7.64E+00	0.00E+00	7.64E+00
		I-131	<3.20E+01	0.00E+00	3.20E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<6.50E+02	0.00E+00	6.50E+02
		Ba-140	<6.05E+01	0.00E+00	6.05E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390136	9/9/2015 - 9/9/2015	Mn-54	<9.99E+00	0.00E+00	9.99E+00
		Co-58	<1.26E+01	0.00E+00	1.26E+01
		Fe-59	<2.41E+01	0.00E+00	2.41E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<1.76E+01	0.00E+00	1.76E+01
		Nb-95	<1.80E+01	0.00E+00	1.80E+01
		I-131	<2.37E+01	0.00E+00	2.37E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<2.92E+02	0.00E+00	2.92E+02
		Ba-140	<8.62E+01	0.00E+00	8.62E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
390868	9/15/2015 - 9/15/2015	Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<1.04E+01	0.00E+00	1.04E+01
		Fe-59	<3.64E+01	0.00E+00	3.64E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<2.51E+01	0.00E+00	2.51E+01
		Zr-95	<3.06E+01	0.00E+00	3.06E+01
		Nb-95	<2.37E+01	0.00E+00	2.37E+01
		I-131	<2.68E+01	0.00E+00	2.68E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.66E+01	0.00E+00	1.66E+01
		La-140	<3.27E+02	0.00E+00	3.27E+02
		Ba-140	<5.70E+01	0.00E+00	5.70E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
392090	9/22/2015 - 9/22/2015	Mn-54	<7.06E+00	0.00E+00	7.06E+00
		Co-58	<7.26E+00	0.00E+00	7.26E+00
		Fe-59	<2.94E+01	0.00E+00	2.94E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<3.55E+01	0.00E+00	3.55E+01
		Zr-95	<1.75E+01	0.00E+00	1.75E+01
		Nb-95	<1.64E+01	0.00E+00	1.64E+01
		I-131	<2.87E+01	0.00E+00	2.87E+01





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
392090	9/22/2015 - 9/22/2015	Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<1.53E+02	0.00E+00	1.53E+02
		Ba-140	<7.15E+01	0.00E+00	7.15E+01
		Total-Gam	0.00E+00		
392575	9/29/2015 - 9/29/2015	Mn-54	<9.99E+00	0.00E+00	9.99E+00
		Co-58	<1.03E+01	0.00E+00	1.03E+01
		Fe-59	<2.95E+01	0.00E+00	2.95E+01
		Co-60	<1.77E+01	0.00E+00	1.77E+01
		Zn-65	<4.35E+01	0.00E+00	4.35E+01
		Zr-95	<3.04E+01	0.00E+00	3.04E+01
		Nb-95	<1.80E+01	0.00E+00	1.80E+01
		I-131	<2.12E+01	0.00E+00	2.12E+01
		Cs-134	<1.23E+01	0.00E+00	1.23E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<1.61E+02	0.00E+00	1.61E+02
		Ba-140	<7.19E+01	0.00E+00	7.19E+01
		Total-Gam	0.00E+00		
394945	10/7/2015 - 10/7/2015	Mn-54	<1.63E+01	0.00E+00	1.63E+01
		Co-58	<2.03E+01	0.00E+00	2.03E+01
		Fe-59	<3.62E+01	0.00E+00	3.62E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<5.82E+01	0.00E+00	5.82E+01
		Zr-95	<2.48E+01	0.00E+00	2.48E+01
		Nb-95	<1.91E+01	0.00E+00	1.91E+01
		I-131	<8.73E+01	0.00E+00	8.73E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.36E+01	0.00E+00	1.36E+01
		La-140	<5.32E+04	0.00E+00	5.32E+04
		Ba-140	<1.36E+02	0.00E+00	1.36E+02
		Total-Gam	0.00E+00		
395057	10/13/2015 - 10/13/2015	Mn-54	<1.76E+01	0.00E+00	1.76E+01
		Co-58	<1.59E+01	0.00E+00	1.59E+01
		Fe-59	<2.91E+01	0.00E+00	2.91E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<1.82E+01	0.00E+00	1.82E+01
		Zr-95	<1.93E+01	0.00E+00	1.93E+01
		Nb-95	<1.75E+01	0.00E+00	1.75E+01
		I-131	<5.33E+01	0.00E+00	5.33E+01
		Cs-134	<1.38E+01	0.00E+00	1.38E+01
		Cs-137	<1.92E+01	0.00E+00	1.92E+01
		La-140	<1.50E+04	0.00E+00	1.50E+04
		Ba-140	<1.08E+02	0.00E+00	1.08E+02
		Total-Gam	0.00E+00		
395211	10/20/2015 - 10/20/2015	Mn-54	<1.60E+01	0.00E+00	1.60E+01
		Co-58	<1.10E+01	0.00E+00	1.10E+01
		Fe-59	<2.67E+01	0.00E+00	2.67E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<1.81E+01	0.00E+00	1.81E+01
		Zr-95	<2.67E+01	0.00E+00	2.67E+01
		Nb-95	<1.87E+01	0.00E+00	1.87E+01
		I-131	<4.19E+01	0.00E+00	4.19E+01
		Cs-134	<7.94E+00	0.00E+00	7.94E+00
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<3.51E+03	0.00E+00	3.51E+03
		Ba-140	<9.53E+01	0.00E+00	9.53E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
395211	10/20/2015 - 10/20/2015	Total-Gam	0.00E+00		
395241	10/27/2015 - 10/27/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.73E+01	0.00E+00	1.73E+01
		Co-58	<2.06E+01	0.00E+00	2.06E+01
		Fe-59	<2.54E+01	0.00E+00	2.54E+01
		Co-60	<2.07E+01	0.00E+00	2.07E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<2.78E+01	0.00E+00	2.78E+01
		Nb-95	<2.55E+01	0.00E+00	2.55E+01
		I-131	<3.08E+01	0.00E+00	3.08E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		La-140	<1.59E+02	0.00E+00	1.59E+02
		Ba-140	<7.19E+01	0.00E+00	7.19E+01
		Total-Gam	0.00E+00		
395810	11/3/2015 - 11/3/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<1.75E+01	0.00E+00	1.75E+01
		Co-60	<1.60E+01	0.00E+00	1.60E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<2.54E+01	0.00E+00	2.54E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<2.92E+01	0.00E+00	2.92E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.51E+01	0.00E+00	1.51E+01
		La-140	<4.93E+02	0.00E+00	4.93E+02
		Ba-140	<9.98E+01	0.00E+00	9.98E+01
		Total-Gam	0.00E+00		
396082	11/11/2015 - 11/11/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.22E+01	0.00E+00	1.22E+01
		Co-58	<1.46E+01	0.00E+00	1.46E+01
		Fe-59	<2.95E+01	0.00E+00	2.95E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<3.07E+01	0.00E+00	3.07E+01
		Zr-95	<3.05E+01	0.00E+00	3.05E+01
		Nb-95	<2.08E+01	0.00E+00	2.08E+01
		I-131	<2.26E+01	0.00E+00	2.26E+01
		Cs-134	<1.58E+01	0.00E+00	1.58E+01
		Cs-137	<6.77E+00	0.00E+00	6.77E+00
		La-140	<2.88E+02	0.00E+00	2.88E+02
		Ba-140	<7.72E+01	0.00E+00	7.72E+01
		Total-Gam	0.00E+00		
397552	11/17/2015 - 11/17/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<1.25E+01	0.00E+00	1.25E+01
		Co-58	<1.98E+01	0.00E+00	1.98E+01
		Fe-59	<4.49E+01	0.00E+00	4.49E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<1.83E+01	0.00E+00	1.83E+01
		Zr-95	<3.40E+01	0.00E+00	3.40E+01
		Nb-95	<1.81E+01	0.00E+00	1.81E+01
		I-131	<7.24E+01	0.00E+00	7.24E+01
		Cs-134	<1.67E+01	0.00E+00	1.67E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<1.84E+04	0.00E+00	1.84E+04
		Ba-140	<6.84E+01	0.00E+00	6.84E+01
		Total-Gam	0.00E+00		
397731	11/24/2015 - 11/24/2015	Nuclide	Activity	2 Sigma Error	LLD
		Mn-54	<7.13E+00	0.00E+00	7.13E+00



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
397731	11/24/2015 - 11/24/2015	Co-58	<1.69E+01	0.00E+00	1.69E+01
		Fe-59	<3.14E+01	0.00E+00	3.14E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<0.00E+00	0.00E+00	0.00E+00
		Zr-95	<2.59E+01	0.00E+00	2.59E+01
		Nb-95	<7.95E+00	0.00E+00	7.95E+00
		I-131	<3.16E+01	0.00E+00	3.16E+01
		Cs-134	<1.24E+01	0.00E+00	1.24E+01
		Cs-137	<6.77E+00	0.00E+00	6.77E+00
		La-140	<9.41E+02	0.00E+00	9.41E+02
		Ba-140	<8.92E+01	0.00E+00	8.92E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398104	12/1/2015 - 12/1/2015	Mn-54	<1.23E+01	0.00E+00	1.23E+01
		Co-58	<1.67E+01	0.00E+00	1.67E+01
		Fe-59	<2.51E+01	0.00E+00	2.51E+01
		Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<2.53E+01	0.00E+00	2.53E+01
		Zr-95	<2.86E+01	0.00E+00	2.86E+01
		Nb-95	<2.19E+01	0.00E+00	2.19E+01
		I-131	<2.83E+01	0.00E+00	2.83E+01
		Cs-134	<1.35E+01	0.00E+00	1.35E+01
		Cs-137	<9.58E+00	0.00E+00	9.58E+00
		La-140	<4.86E+02	0.00E+00	4.86E+02
		Ba-140	<7.03E+01	0.00E+00	7.03E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
398519	12/9/2015 - 12/9/2015	Mn-54	<1.42E+01	0.00E+00	1.42E+01
		Co-58	<1.05E+01	0.00E+00	1.05E+01
		Fe-59	<3.70E+01	0.00E+00	3.70E+01
		Co-60	<1.85E+01	0.00E+00	1.85E+01
		Zn-65	<5.35E+01	0.00E+00	5.35E+01
		Zr-95	<1.79E+01	0.00E+00	1.79E+01
		Nb-95	<1.53E+01	0.00E+00	1.53E+01
		I-131	<2.80E+01	0.00E+00	2.80E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.17E+01	0.00E+00	1.17E+01
		La-140	<7.14E+02	0.00E+00	7.14E+02
		Ba-140	<9.55E+01	0.00E+00	9.55E+01
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399037	12/15/2015 - 12/15/2015	Mn-54	<1.25E+01	0.00E+00	1.25E+01
		Co-58	<1.93E+01	0.00E+00	1.93E+01
		Fe-59	<3.34E+01	0.00E+00	3.34E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<1.81E+01	0.00E+00	1.81E+01
		Zr-95	<2.71E+01	0.00E+00	2.71E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<4.47E+01	0.00E+00	4.47E+01
		Cs-134	<7.94E+00	0.00E+00	7.95E+00
		Cs-137	<1.79E+01	0.00E+00	1.79E+01
		La-140	<1.21E+04	0.00E+00	1.21E+04
		Ba-140	<1.03E+02	0.00E+00	1.03E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399050	12/23/2015 - 12/23/2015	Mn-54	<1.44E+01	0.00E+00	1.44E+01
		Co-58	<1.11E+01	0.00E+00	1.11E+01
		Fe-59	<4.30E+01	0.00E+00	4.30E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<2.57E+01	0.00E+00	2.57E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 1067 [ INDICATOR - @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399050	12/23/2015 - 12/23/2015	Zr-95	<3.30E+01	0.00E+00	3.30E+01
		Nb-95	<1.49E+01	0.00E+00	1.49E+01
		I-131	<5.31E+01	0.00E+00	5.31E+01
		Cs-134	<1.38E+01	0.00E+00	1.38E+01
		Cs-137	<6.78E+00	0.00E+00	6.78E+00
		La-140	<5.86E+03	0.00E+00	5.86E+03
		Ba-140	<1.10E+02	0.00E+00	1.10E+02
		Total-Gam	0.00E+00		

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	LLD
399145	12/29/2015 - 12/29/2015	Mn-54	<7.10E+00	0.00E+00	7.10E+00
		Co-58	<1.28E+01	0.00E+00	1.28E+01
		Fe-59	<3.04E+01	0.00E+00	3.04E+01
		Co-60	<1.31E+01	0.00E+00	1.31E+01
		Zn-65	<3.09E+01	0.00E+00	3.09E+01
		Zr-95	<1.80E+01	0.00E+00	1.80E+01
		Nb-95	<1.32E+01	0.00E+00	1.32E+01
		I-131	<2.18E+01	0.00E+00	2.18E+01
		Cs-134	<1.10E+01	0.00E+00	1.10E+01
		Cs-137	<1.35E+01	0.00E+00	1.35E+01
		La-140	<5.18E+02	0.00E+00	5.18E+02
		Ba-140	<7.42E+01	0.00E+00	7.42E+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:	Sample Dates:	Nuclide	Activity
379155	1/6/2015 - 4/3/2015	mR/Std Qtr	12.39
379833	4/3/2015 - 7/8/2015	mR/Std Qtr	9.99
387781	7/8/2015 - 10/7/2015	mR/Std Qtr	9.82
396756	10/7/2015 - 1/5/2016	mR/Std Qtr	10.17

Sample Point 2 [ INDICATOR - ESE @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379165	1/6/2015 - 4/3/2015	mR/Std Qtr	12.73
379843	4/3/2015 - 7/8/2015	mR/Std Qtr	9.93
387791	7/8/2015 - 10/7/2015	mR/Std Qtr	10.36
396766	10/7/2015 - 1/5/2016	mR/Std Qtr	9.82

Sample Point 3 [ INDICATOR - SE @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379176	1/6/2015 - 4/3/2015	mR/Std Qtr	11.11
379854	4/3/2015 - 7/8/2015	mR/Std Qtr	12.03
387802	7/8/2015 - 10/7/2015	mR/Std Qtr	8.47



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 3 [ INDICATOR - SE @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID: 396777	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	11.90

Sample Point 4 [ INDICATOR - SSE @ 1.1 miles ]

TLD RING TLD\_INNER

Sample ID: 379187	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.45

Sample ID: 379865	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	9.70

Sample ID: 387813	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.96

Sample ID: 396788	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	11.38

Sample Point 5 [ INDICATOR - S @ 1.1 miles ]

TLD RING TLD\_INNER

Sample ID: 379189	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.64

Sample ID: 379867	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	9.73

Sample ID: 387815	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.21

Sample ID: 396790	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	11.34

Sample Point 6 [ INDICATOR - SSW @ 1.6 miles ]

TLD RING TLD\_INNER

Sample ID: 379190	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	10.24

Sample ID: 379868	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	8.87

Sample ID: 387816	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.23

Sample ID: 396791	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	9.46

Sample Point 7 [ INDICATOR - SW @ 1.1 miles ]

TLD RING TLD\_INNER

Sample ID: 379191	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.42

Sample ID: 379869	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	10.69

Sample ID: 387817	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.96

Sample ID: 396792	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	10.34

Sample Point 8 [ INDICATOR - W @ 1.2 miles ]

TLD RING TLD\_INNER

Sample ID: 379197	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.59



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 8 [ INDICATOR - W @ 1.2 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379875	4/3/2015 - 7/8/2015	mR/Std Qtr	8.45
387823	7/8/2015 - 10/7/2015	mR/Std Qtr	9.33
396798	10/7/2015 - 1/5/2016	mR/Std Qtr	9.18

Sample Point 9 [ INDICATOR - WNW @ 1 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379203	1/6/2015 - 4/3/2015	mR/Std Qtr	10.42
379881	4/3/2015 - 7/8/2015	mR/Std Qtr	8.72
387829	7/8/2015 - 10/7/2015	mR/Std Qtr	7.70
396804	10/7/2015 - 1/5/2016	mR/Std Qtr	9.18

Sample Point 10 [ INDICATOR - NW @ 0.8 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379156	1/6/2015 - 4/3/2015	mR/Std Qtr	11.72
379834	4/3/2015 - 7/8/2015	mR/Std Qtr	8.09
387782	7/8/2015 - 10/7/2015	mR/Std Qtr	7.02
396757	10/7/2015 - 1/5/2016	mR/Std Qtr	8.94

Sample Point 11 [ INDICATOR - NNW @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379157	1/6/2015 - 4/3/2015	mR/Std Qtr	15.05
379835	4/3/2015 - 7/8/2015	mR/Std Qtr	9.27
387783	7/8/2015 - 10/7/2015	mR/Std Qtr	8.78
396758	10/7/2015 - 1/5/2016	mR/Std Qtr	11.48

Sample Point 12 [ INDICATOR - N @ 1.1 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379158	1/6/2015 - 4/3/2015	mR/Std Qtr	14.23
379836	4/3/2015 - 7/8/2015	mR/Std Qtr	12.65
387784	7/8/2015 - 10/7/2015	mR/Std Qtr	9.14
396759	10/7/2015 - 1/5/2016	mR/Std Qtr	11.20



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

**Sample Point 13 [ INDICATOR - NNE @ 1.2 miles ]**

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379159	1/6/2015 - 4/3/2015	mR/Std Qtr	10.89
379837	4/3/2015 - 7/8/2015	mR/Std Qtr	9.00
387785	7/8/2015 - 10/7/2015	mR/Std Qtr	7.20
396760	10/7/2015 - 1/5/2016	mR/Std Qtr	10.78

**Sample Point 14 [ INDICATOR - NE @ 0.5 miles ]**

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379160	1/6/2015 - 4/5/2015	mR/Std Qtr	14.67
379838	4/5/2015 - 7/7/2015	mR/Std Qtr	11.58
387786	7/7/2015 - 10/7/2015	mR/Std Qtr	10.25
396761	10/7/2015 - 1/7/2016	mR/Std Qtr	13.26

**Sample Point 15 [ INDICATOR - ENE @ 0.9 miles ]**

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379161	1/6/2015 - 4/5/2015	mR/Std Qtr	13.02
379839	4/5/2015 - 7/7/2015	mR/Std Qtr	10.52
387787	7/7/2015 - 10/7/2015	mR/Std Qtr	9.42
396762	10/7/2015 - 1/7/2016	mR/Std Qtr	11.78

**Sample Point 16 [ INDICATOR - WSW @ 1 miles ]**

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379162	1/6/2015 - 4/3/2015	mR/Std Qtr	14.05
379840	4/3/2015 - 7/8/2015	mR/Std Qtr	8.99
387788	7/8/2015 - 10/7/2015	mR/Std Qtr	9.08
396763	10/7/2015 - 1/5/2016	mR/Std Qtr	9.30

**Sample Point 17 [ INDICATOR - ESE @ 1.4 miles ]**

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379163	1/6/2015 - 4/3/2015	mR/Std Qtr	14.86
379841	4/3/2015 - 7/8/2015	mR/Std Qtr	11.41
387789	7/8/2015 - 10/7/2015	mR/Std Qtr	10.14



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 17 [ INDICATOR - ESE @ 1.4 miles ]

TLD RING TLD\_INNER

Sample ID: 396764	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	11.62

Sample Point 18 [ INDICATOR - SE @ 1.7 miles ]

TLD RING TLD\_INNER

Sample ID: 379164	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.39

Sample ID: 379842	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	10.14

Sample ID: 387790	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.82

Sample ID: 396765	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	10.57

Sample Point 20 [ INDICATOR - S @ 2.1 miles ]

TLD RING TLD\_INNER

Sample ID: 379166	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	11.08

Sample ID: 379844	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	9.66

Sample ID: 387792	Sample Dates: 7/8/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	8.03

Sample ID: 396767	Sample Dates: 10/7/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	10.11

Sample Point 21 [ INDICATOR - SSW @ 2.9 miles ]

TLD RING TLD\_INNER

Sample ID: 379167	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	15.37

Sample ID: 379845	Sample Dates: 4/3/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	13.82

Sample ID: 387793	Sample Dates: 7/8/2015 - 10/3/2015	Nuclide	Activity
		mR/Std Qtr	10.39

Sample ID: 396768	Sample Dates: 10/3/2015 - 1/5/2016	Nuclide	Activity
		mR/Std Qtr	12.46

Sample Point 22 [ INDICATOR - SW @ 5.3 miles ]

TLD RING TLD\_OUTER

Sample ID: 379168	Sample Dates: 1/6/2015 - 4/4/2015	Nuclide	Activity
		mR/Std Qtr	11.52

Sample ID: 379846	Sample Dates: 4/4/2015 - 7/8/2015	Nuclide	Activity
		mR/Std Qtr	10.70

Sample ID: 387794	Sample Dates: 7/8/2015 - 10/3/2015	Nuclide	Activity
		mR/Std Qtr	9.11

Sample ID: 396769	Sample Dates: 10/3/2015 - 1/6/2016	Nuclide	Activity
		mR/Std Qtr	10.32

Sample Point 23 [ INDICATOR - WSW @ 4.6 miles ]

TLD RING TLD\_OUTER

Sample ID: 379169	Sample Dates: 1/6/2015 - 4/4/2015	Nuclide	Activity
		mR/Std Qtr	9.42





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 23 [ INDICATOR - WSW @ 4.6 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379847	4/4/2015 - 7/8/2015	mR/Std Qtr	8.45
387795	7/8/2015 - 10/3/2015	mR/Std Qtr	6.82
396770	10/3/2015 - 1/6/2016	mR/Std Qtr	8.64

Sample Point 24 [ INDICATOR - W @ 3 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379848	4/4/2015 - 7/8/2015	mR/Std Qtr	8.67
387796	7/8/2015 - 10/3/2015	mR/Std Qtr	13.94
396771	10/3/2015 - 1/6/2016	mR/Std Qtr	15.75

Sample Point 25 [ INDICATOR - WNW @ 8.6 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379171	1/6/2015 - 4/4/2015	mR/Std Qtr	11.31
379849	4/4/2015 - 7/8/2015	mR/Std Qtr	10.50
387797	7/8/2015 - 10/3/2015	mR/Std Qtr	9.70
396772	10/3/2015 - 1/6/2016	mR/Std Qtr	12.06

Sample Point 26 [ INDICATOR - NW @ 5.9 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379172	1/6/2015 - 4/3/2015	mR/Std Qtr	14.51
379850	4/3/2015 - 7/8/2015	mR/Std Qtr	10.91
387798	7/8/2015 - 10/3/2015	mR/Std Qtr	13.24
396773	10/3/2015 - 1/5/2016	mR/Std Qtr	12.67

Sample Point 27 [ INDICATOR - NNW @ 5.1 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379173	1/6/2015 - 4/3/2015	mR/Std Qtr	10.82
379851	4/3/2015 - 7/8/2015	mR/Std Qtr	8.35
387799	7/8/2015 - 10/3/2015	mR/Std Qtr	6.55
396774	10/3/2015 - 1/5/2016	mR/Std Qtr	9.42



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 28 [ INDICATOR - NW @ 4.2 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379174	1/6/2015 - 4/3/2015	mR/Std Qtr	10.85
379852	4/3/2015 - 7/8/2015	mR/Std Qtr	8.97
387800	7/8/2015 - 10/3/2015	mR/Std Qtr	7.68
396775	10/3/2015 - 1/5/2016	mR/Std Qtr	9.60

Sample Point 29 [ INDICATOR - SSW @ 2.6 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379175	1/6/2015 - 4/3/2015	mR/Std Qtr	10.61
379853	4/3/2015 - 7/8/2015	mR/Std Qtr	8.20
387801	7/8/2015 - 10/7/2015	mR/Std Qtr	7.15
396776	10/7/2015 - 1/5/2016	mR/Std Qtr	9.12

Sample Point 30 [ INDICATOR - NE @ 2 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379177	1/7/2015 - 4/5/2015	mR/Std Qtr	11.38
379855	4/5/2015 - 7/8/2015	mR/Std Qtr	9.92
387803	7/8/2015 - 10/3/2015	mR/Std Qtr	7.95
396778	10/3/2015 - 1/7/2016	mR/Std Qtr	11.61

Sample Point 31 [ INDICATOR - ENE @ 2.5 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
379178	1/7/2015 - 4/5/2015	mR/Std Qtr	12.91
379856	4/5/2015 - 7/8/2015	mR/Std Qtr	11.91
387804	7/8/2015 - 10/3/2015	mR/Std Qtr	9.66
396779	10/3/2015 - 1/7/2016	mR/Std Qtr	13.88

Sample Point 32 [ INDICATOR - ENE @ 5.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379179	1/7/2015 - 4/5/2015	mR/Std Qtr	13.88
379857	4/5/2015 - 7/6/2015	mR/Std Qtr	10.59
387805	7/6/2015 - 10/3/2015	mR/Std Qtr	11.02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 32 [ INDICATOR - ENE @ 5.8 miles ]

TLD RING TLD\_OUTER

Sample ID: 396780	Sample Dates: 10/3/2015 - 1/9/2016	Nuclide	Activity
		mR/Std Qtr	12.21

Sample Point 33 [ INDICATOR - E @ 4.1 miles ]

TLD RING TLD\_OUTER

Sample ID: 379180	Sample Dates: 1/7/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	12.14

Sample ID: 379858	Sample Dates: 4/5/2015 - 7/6/2015	Nuclide	Activity
		mR/Std Qtr	8.88

Sample ID: 387806	Sample Dates: 7/6/2015 - 10/3/2015	Nuclide	Activity
		mR/Std Qtr	6.53

Sample ID: 396781	Sample Dates: 10/3/2015 - 1/9/2016	Nuclide	Activity
		mR/Std Qtr	10.05

Sample Point 34 [ INDICATOR - E @ 5.4 miles ]

TLD RING TLD\_OUTER

Sample ID: 379181	Sample Dates: 1/7/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	11.75

Sample ID: 379859	Sample Dates: 4/5/2015 - 7/6/2015	Nuclide	Activity
		mR/Std Qtr	9.09

Sample ID: 387807	Sample Dates: 7/6/2015 - 10/3/2015	Nuclide	Activity
		mR/Std Qtr	8.25

Sample ID: 396782	Sample Dates: 10/3/2015 - 1/9/2016	Nuclide	Activity
		mR/Std Qtr	10.23

Sample Point 35 [ INDICATOR - SSE @ 7.3 miles ]

TLD RING TLD\_OUTER

Sample ID: 379182	Sample Dates: 1/8/2015 - 4/2/2015	Nuclide	Activity
		mR/Std Qtr	12.06

Sample ID: 379860	Sample Dates: 4/2/2015 - 7/7/2015	Nuclide	Activity
		mR/Std Qtr	7.72

Sample ID: 387808	Sample Dates: 7/7/2015 - 10/8/2015	Nuclide	Activity
		mR/Std Qtr	6.88

Sample ID: 396783	Sample Dates: 10/8/2015 - 1/14/2016	Nuclide	Activity
		mR/Std Qtr	9.01

Sample Point 36 [ INDICATOR - NE @ 8.9 miles ]

TLD RING TLD\_OUTER

Sample ID: 379183	Sample Dates: 1/7/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	11.40

Sample ID: 379861	Sample Dates: 4/5/2015 - 7/6/2015	Nuclide	Activity
		mR/Std Qtr	9.35

Sample ID: 387809	Sample Dates: 7/6/2015 - 10/3/2015	Nuclide	Activity
		mR/Std Qtr	8.45

Sample ID: 396784	Sample Dates: 10/3/2015 - 1/9/2016	Nuclide	Activity
		mR/Std Qtr	9.96

Sample Point 37 [ INDICATOR - NW @ 5.5 miles ]

TLD RING TLD\_OUTER

Sample ID: 379184	Sample Dates: 1/6/2015 - 4/3/2015	Nuclide	Activity
		mR/Std Qtr	10.36

# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 37 [ INDICATOR - NW @ 5.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379862	4/3/2015 - 7/8/2015	mR/Std Qtr	9.58
387810	7/8/2015 - 10/3/2015	mR/Std Qtr	6.72
396785	10/3/2015 - 1/5/2016	mR/Std Qtr	10.97

Sample Point 38 [ INDICATOR - W @ 11 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379185	1/6/2015 - 4/4/2015	mR/Std Qtr	13.03
379863	4/4/2015 - 7/8/2015	mR/Std Qtr	8.85
387811	7/8/2015 - 10/3/2015	mR/Std Qtr	8.42
396786	10/3/2015 - 1/6/2016	mR/Std Qtr	9.25

Sample Point 39 [ INDICATOR - SW @ 5.3 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379186	1/6/2015 - 4/4/2015	mR/Std Qtr	19.94
379864	4/4/2015 - 7/8/2015	mR/Std Qtr	14.01
387812	7/8/2015 - 10/3/2015	mR/Std Qtr	13.32
396787	10/3/2015 - 1/6/2016	mR/Std Qtr	16.49

Sample Point 40 [ INDICATOR - WSW @ 6.9 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379188	1/6/2015 - 4/4/2015	mR/Std Qtr	15.88
379866	4/4/2015 - 7/8/2015	mR/Std Qtr	12.34
387814	7/8/2015 - 10/3/2015	mR/Std Qtr	10.41
396789	10/3/2015 - 1/6/2016	mR/Std Qtr	15.64

Sample Point 75 [ INDICATOR - S @ 4.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379192	1/6/2015 - 4/4/2015	mR/Std Qtr	12.91
379870	4/4/2015 - 7/8/2015	mR/Std Qtr	10.40
387818	7/8/2015 - 10/3/2015	mR/Std Qtr	8.25
396793	10/3/2015 - 1/6/2016	mR/Std Qtr	12.67



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 76 [ INDICATOR - SSW @ 4.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379193	1/6/2015 - 4/4/2015	mR/Std Qtr	14.07
379871	4/4/2015 - 7/8/2015	mR/Std Qtr	13.36
387819	7/8/2015 - 10/3/2015	mR/Std Qtr	8.65
396794	10/3/2015 - 1/6/2016	mR/Std Qtr	12.82

Sample Point 77 [ INDICATOR - S @ 5.4 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379194	1/8/2015 - 4/2/2015	mR/Std Qtr	11.34
379872	4/2/2015 - 7/7/2015	mR/Std Qtr	8.34
387820	7/7/2015 - 10/8/2015	mR/Std Qtr	7.82
396795	10/8/2015 - 1/14/2016	mR/Std Qtr	8.82

Sample Point 78 [ INDICATOR - NNE @ 9.9 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379195	1/6/2015 - 4/3/2015	mR/Std Qtr	10.17
379873	4/3/2015 - 7/8/2015	mR/Std Qtr	9.86
387821	7/8/2015 - 10/3/2015	mR/Std Qtr	8.19
396796	10/3/2015 - 1/5/2016	mR/Std Qtr	10.50

Sample Point 79 [ INDICATOR - N @ 9.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
379196	1/6/2015 - 4/3/2015	mR/Std Qtr	11.12
379874	4/3/2015 - 7/8/2015	mR/Std Qtr	10.50
387822	7/8/2015 - 10/3/2015	mR/Std Qtr	9.33
396797	10/3/2015 - 1/5/2016	mR/Std Qtr	10.36

Sample Point 81 [ CONTROL - WNW @ 9.9 miles ]

TLD RING TLD\_CTRL

Sample ID:	Sample Dates:	Nuclide	Activity
379198	1/6/2015 - 4/4/2015	mR/Std Qtr	11.41
379876	4/4/2015 - 7/8/2015	mR/Std Qtr	12.24
387824	7/8/2015 - 10/3/2015	mR/Std Qtr	8.80



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 81 [ CONTROL - WNW @ 9.9 miles ]

TLD RING TLD\_CTRL

Sample ID: 396799	Sample Dates: 10/3/2015 - 1/6/2016	Nuclide	Activity
		mR/Std Qtr	13.09

Sample Point 82 [ INDICATOR - NNE @ 0.17 miles ]

TLD RING NOT\_APPLIC

Sample ID: 379199	Sample Dates: 1/6/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	29.97

Sample ID: 379877	Sample Dates: 4/5/2015 - 7/7/2015	Nuclide	Activity
		mR/Std Qtr	28.49

Sample ID: 387825	Sample Dates: 7/7/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	23.09

Sample ID: 396800	Sample Dates: 10/7/2015 - 1/7/2016	Nuclide	Activity
		mR/Std Qtr	25.64

Sample Point 83 [ INDICATOR - NE @ 0.27 miles ]

TLD RING NOT\_APPLIC

Sample ID: 379200	Sample Dates: 1/6/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	27.86

Sample ID: 379878	Sample Dates: 4/5/2015 - 7/7/2015	Nuclide	Activity
		mR/Std Qtr	24.48

Sample ID: 387826	Sample Dates: 7/7/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	21.75

Sample ID: 396801	Sample Dates: 10/7/2015 - 1/7/2016	Nuclide	Activity
		mR/Std Qtr	24.15

Sample Point 84 [ INDICATOR - NE @ 0.27 miles ]

TLD RING NOT\_APPLIC

Sample ID: 379201	Sample Dates: 1/6/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	19.55

Sample ID: 379879	Sample Dates: 4/5/2015 - 7/7/2015	Nuclide	Activity
		mR/Std Qtr	17.66

Sample ID: 387827	Sample Dates: 7/7/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	15.96

Sample ID: 396802	Sample Dates: 10/7/2015 - 1/7/2016	Nuclide	Activity
		mR/Std Qtr	17.38

Sample Point 85 [ INDICATOR - ENE @ 0.09 miles ]

TLD RING NOT\_APPLIC

Sample ID: 379202	Sample Dates: 1/6/2015 - 4/5/2015	Nuclide	Activity
		mR/Std Qtr	33.37

Sample ID: 379880	Sample Dates: 4/5/2015 - 7/7/2015	Nuclide	Activity
		mR/Std Qtr	31.87

Sample ID: 387828	Sample Dates: 7/7/2015 - 10/7/2015	Nuclide	Activity
		mR/Std Qtr	25.80

Sample ID: 396803	Sample Dates: 10/7/2015 - 1/7/2016	Nuclide	Activity
		mR/Std Qtr	21.20

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

Sample Point 800 [ INDICATOR - NE @ 0.7 miles ]

Sample ID: 365700	Sample Dates: 1/5/2015 - 1/5/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
			Mn-54	<2.38E+01	0.00E+00	2.38E+01
			Co-58	<1.92E+01	0.00E+00	1.92E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 800 [ INDICATOR - NE @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
365700	1/5/2015 - 1/5/2015	WAXMYRTLE	Fe-59	<4.80E+01	0.00E+00	4.80E+01
			Co-60	<2.91E+01	0.00E+00	2.91E+01
			Zn-65	<6.20E+01	0.00E+00	6.20E+01
			Zr-95	<4.48E+01	0.00E+00	4.48E+01
			Nb-95	<2.83E+01	0.00E+00	2.83E+01
			I-131	<2.29E+01	0.00E+00	2.29E+01
			Cs-134	<2.42E+01	0.00E+00	2.42E+01
			Cs-137	<2.60E+01	0.00E+00	2.60E+01
			BaLa-140	<2.85E+01	0.00E+00	2.85E+01
			Be-7	1.09E+03	2.62E+02	2.94E+02
			K-40	2.55E+03	5.19E+02	4.29E+02
			369317	2/2/2015 - 2/2/2015	WAXMYRTLE	Mn-54
Co-58	<2.19E+01	0.00E+00				2.19E+01
Fe-59	<2.97E+01	0.00E+00				2.97E+01
Co-60	<3.07E+01	0.00E+00				3.07E+01
Zn-65	<5.12E+01	0.00E+00				5.12E+01
Zr-95	<3.79E+01	0.00E+00				3.79E+01
Nb-95	<2.28E+01	0.00E+00				2.28E+01
I-131	<1.61E+01	0.00E+00				1.61E+01
Cs-134	<1.91E+01	0.00E+00				1.91E+01
Cs-137	<2.28E+01	0.00E+00				2.28E+01
BaLa-140	<2.21E+01	0.00E+00				2.21E+01
Be-7	2.84E+03	4.05E+02				2.37E+02
K-40	1.65E+03	4.17E+02				3.71E+02
372305	3/1/2015 - 3/1/2015	WAXMYRTLE				Mn-54
			Co-58	<1.95E+01	0.00E+00	1.95E+01
			Fe-59	<3.83E+01	0.00E+00	3.83E+01
			Co-60	<3.14E+01	0.00E+00	3.14E+01
			Zn-65	<5.51E+01	0.00E+00	5.51E+01
			Zr-95	<4.35E+01	0.00E+00	4.35E+01
			Nb-95	<2.28E+01	0.00E+00	2.28E+01
			I-131	<2.78E+01	0.00E+00	2.78E+01
			Cs-134	<2.55E+01	0.00E+00	2.55E+01
			Cs-137	<2.65E+01	0.00E+00	2.65E+01
			BaLa-140	<3.14E+01	0.00E+00	3.14E+01
			Be-7	2.08E+03	3.63E+02	2.90E+02
			K-40	2.56E+03	5.34E+02	3.62E+02
			375783	4/1/2015 - 4/1/2015	WAXMYRTLE	Mn-54
Co-58	<1.98E+01	0.00E+00				1.98E+01
Fe-59	<3.86E+01	0.00E+00				3.86E+01
Co-60	<2.12E+01	0.00E+00				2.12E+01
Zn-65	<4.64E+01	0.00E+00				4.64E+01
Zr-95	<1.76E+01	0.00E+00				1.76E+01
Nb-95	<1.78E+01	0.00E+00				1.78E+01
I-131	<2.54E+01	0.00E+00				2.54E+01
Cs-134	<1.85E+01	0.00E+00				1.85E+01
Cs-137	<1.59E+01	0.00E+00				1.59E+01
BaLa-140	<2.02E+01	0.00E+00				2.02E+01
Be-7	1.59E+03	2.77E+02				2.01E+02
K-40	2.01E+03	4.00E+02				2.25E+02
378793	5/4/2015 - 5/4/2015	WAXMYRTLE				Mn-54
			Co-58	<1.25E+01	0.00E+00	1.25E+01
			Fe-59	<2.55E+01	0.00E+00	2.55E+01
			Co-60	<1.37E+01	0.00E+00	1.37E+01
			Zn-65	<3.88E+01	0.00E+00	3.88E+01
			Zr-95	<2.27E+01	0.00E+00	2.27E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 800 [ INDICATOR - NE @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
378793	5/4/2015 - 5/4/2015	WAXMYRTLE	Nb-95	<1.22E+01	0.00E+00	1.22E+01
			I-131	<1.34E+01	0.00E+00	1.34E+01
			Cs-134	<1.46E+01	0.00E+00	1.46E+01
			Cs-137	<1.57E+01	0.00E+00	1.57E+01
			BaLa-140	<1.73E+01	0.00E+00	1.73E+01
			Be-7	6.24E+02	1.60E+02	1.79E+02
			K-40	2.79E+03	4.43E+02	2.35E+02
			380663	6/1/2015 - 6/1/2015	WAXMYRTLE	Mn-54
Co-58	<1.88E+01	0.00E+00				1.88E+01
Fe-59	<5.91E+01	0.00E+00				5.91E+01
Co-60	<3.16E+01	0.00E+00				3.16E+01
Zn-65	<5.17E+01	0.00E+00				5.17E+01
Zr-95	<4.14E+01	0.00E+00				4.14E+01
Nb-95	<1.81E+01	0.00E+00				1.81E+01
I-131	<1.89E+01	0.00E+00				1.89E+01
Cs-134	<2.71E+01	0.00E+00				2.71E+01
Cs-137	<1.84E+01	0.00E+00				1.84E+01
BaLa-140	<2.50E+01	0.00E+00				2.50E+01
Be-7	6.06E+02	2.09E+02				2.51E+02
K-40	3.02E+03	5.61E+02				5.73E+01
382674	7/1/2015 - 7/1/2015	WAXMYRTLE				Mn-54
			Co-58	<1.39E+01	0.00E+00	1.39E+01
			Fe-59	<3.70E+01	0.00E+00	3.70E+01
			Co-60	<1.62E+01	0.00E+00	1.62E+01
			Zn-65	<7.14E+00	0.00E+00	7.14E+00
			Zr-95	<2.59E+01	0.00E+00	2.59E+01
			Nb-95	<1.49E+01	0.00E+00	1.49E+01
			I-131	<2.07E+01	0.00E+00	2.07E+01
			Cs-134	<1.74E+01	0.00E+00	1.74E+01
			Cs-137	<1.59E+01	0.00E+00	1.59E+01
			BaLa-140	<2.84E+01	0.00E+00	2.84E+01
			Be-7	1.10E+03	2.21E+02	1.82E+02
			K-40	2.52E+03	4.46E+02	1.64E+02
			385696	8/3/2015 - 8/3/2015	WAXMYRTLE	Mn-54
Co-58	<1.05E+01	0.00E+00				1.05E+01
Fe-59	<2.83E+01	0.00E+00				2.83E+01
Co-60	<1.55E+01	0.00E+00				1.55E+01
Zn-65	<2.34E+01	0.00E+00				2.34E+01
Zr-95	<2.52E+01	0.00E+00				2.52E+01
Nb-95	<1.49E+01	0.00E+00				1.49E+01
I-131	<1.76E+01	0.00E+00				1.76E+01
Cs-134	<1.60E+01	0.00E+00				1.60E+01
Cs-137	<1.47E+01	0.00E+00				1.47E+01
BaLa-140	<2.19E+01	0.00E+00				2.19E+01
Be-7	1.14E+03	1.98E+02				1.39E+02
K-40	2.70E+03	4.44E+02				3.16E+02
389160	9/1/2015 - 9/1/2015	WAXMYRTLE				Mn-54
			Co-58	<1.87E+01	0.00E+00	1.87E+01
			Fe-59	<3.23E+01	0.00E+00	3.23E+01
			Co-60	<1.62E+01	0.00E+00	1.62E+01
			Zn-65	<4.27E+01	0.00E+00	4.27E+01
			Zr-95	<2.87E+01	0.00E+00	2.87E+01
			Nb-95	<1.70E+01	0.00E+00	1.70E+01
			I-131	<1.92E+01	0.00E+00	1.92E+01
			Cs-134	<1.88E+01	0.00E+00	1.88E+01
			Cs-137	<1.92E+01	0.00E+00	1.92E+01





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 800 [ INDICATOR - NE @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
389160	9/1/2015 - 9/1/2015	WAXMYRTLE	BaLa-140	<2.91E+01	0.00E+00	2.91E+01
			Be-7	1.49E+03	2.77E+02	2.27E+02
			K-40	2.33E+03	4.65E+02	2.62E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
392760	10/1/2015 - 10/1/2015	WAXMYRTLE	Mn-54	<2.23E+01	0.00E+00	2.23E+01
			Co-58	<2.03E+01	0.00E+00	2.03E+01
			Fe-59	<4.05E+01	0.00E+00	4.05E+01
			Co-60	<2.45E+01	0.00E+00	2.45E+01
			Zn-65	<3.32E+01	0.00E+00	3.32E+01
			Zr-95	<3.28E+01	0.00E+00	3.28E+01
			Nb-95	<2.31E+01	0.00E+00	2.31E+01
			I-131	<2.60E+01	0.00E+00	2.60E+01
			Cs-134	<2.35E+01	0.00E+00	2.35E+01
			Cs-137	<1.77E+01	0.00E+00	1.77E+01
			BaLa-140	<3.13E+01	0.00E+00	3.13E+01
			Be-7	2.37E+03	3.89E+02	2.48E+02
			K-40	2.70E+03	5.20E+02	5.54E+01

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
395496	11/2/2015 - 11/2/2015	WAXMYRTLE	Mn-54	<1.56E+01	0.00E+00	1.56E+01
			Co-58	<1.85E+01	0.00E+00	1.85E+01
			Fe-59	<3.60E+01	0.00E+00	3.60E+01
			Co-60	<1.93E+01	0.00E+00	1.93E+01
			Zn-65	<5.29E+01	0.00E+00	5.29E+01
			Zr-95	<3.22E+01	0.00E+00	3.22E+01
			Nb-95	<1.90E+01	0.00E+00	1.90E+01
			I-131	<2.28E+01	0.00E+00	2.28E+01
			Cs-134	<1.75E+01	0.00E+00	1.75E+01
			Cs-137	<1.87E+01	0.00E+00	1.87E+01
			BaLa-140	<1.67E+01	0.00E+00	1.67E+01
			Be-7	2.85E+03	3.76E+02	2.00E+02
			K-40	2.26E+03	4.42E+02	2.53E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
397696	12/1/2015 - 12/1/2015	WAXMYRTLE	Mn-54	<1.66E+01	0.00E+00	1.66E+01
			Co-58	<1.56E+01	0.00E+00	1.56E+01
			Fe-59	<3.04E+01	0.00E+00	3.04E+01
			Co-60	<2.28E+01	0.00E+00	2.28E+01
			Zn-65	<5.10E+01	0.00E+00	5.10E+01
			Zr-95	<3.73E+01	0.00E+00	3.73E+01
			Nb-95	<2.22E+01	0.00E+00	2.22E+01
			I-131	<2.11E+01	0.00E+00	2.11E+01
			Cs-134	<1.97E+01	0.00E+00	1.97E+01
			Cs-137	<2.09E+01	0.00E+00	2.09E+01
			BaLa-140	<3.09E+01	0.00E+00	3.09E+01
			Be-7	2.60E+03	3.81E+02	2.39E+02
			K-40	<5.46E+02	0.00E+00	5.46E+02

**Sample Point 801 [ INDICATOR - SW @ 0.8 miles ]**

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
365701	1/5/2015 - 1/5/2015	WAXMYRTLE	Mn-54	<1.81E+01	0.00E+00	1.81E+01
			Co-58	<1.60E+01	0.00E+00	1.60E+01
			Fe-59	<3.04E+01	0.00E+00	3.04E+01
			Co-60	<1.91E+01	0.00E+00	1.91E+01
			Zn-65	<5.11E+01	0.00E+00	5.11E+01
			Zr-95	<2.59E+01	0.00E+00	2.59E+01
			Nb-95	<1.66E+01	0.00E+00	1.66E+01
			I-131	<2.06E+01	0.00E+00	2.06E+01
			Cs-134	<2.08E+01	0.00E+00	2.08E+01
			Cs-137	<1.80E+01	0.00E+00	1.80E+01
			BaLa-140	<1.96E+01	0.00E+00	1.96E+01
			Be-7	1.77E+03	2.81E+02	2.49E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 801 [ INDICATOR - SW @ 0.8 miles ]

Sample ID:	Sample Dates:	WAXMYRTL	Nuclide	Activity	2 Sigma Error	LLD
365701	1/5/2015 - 1/5/2015		K-40	2.32E+03	4.37E+02	3.88E+02
369318	2/2/2015 - 2/2/2015		Mn-54	<2.97E+01	0.00E+00	2.97E+01
			Co-58	<1.54E+01	0.00E+00	1.54E+01
			Fe-59	<4.89E+01	0.00E+00	4.89E+01
			Co-60	<3.13E+01	0.00E+00	3.13E+01
			Zn-65	<5.70E+01	0.00E+00	5.70E+01
			Zr-95	<3.35E+01	0.00E+00	3.35E+01
			Nb-95	<2.51E+01	0.00E+00	2.51E+01
			I-131	<2.10E+01	0.00E+00	2.10E+01
			Cs-134	<2.04E+01	0.00E+00	2.04E+01
			Cs-137	<3.13E+01	0.00E+00	3.13E+01
			BaLa-140	<3.28E+01	0.00E+00	3.28E+01
			Be-7	2.03E+03	3.73E+02	3.62E+02
			K-40	1.73E+03	4.72E+02	4.92E+02
372306	3/1/2015 - 3/1/2015		Mn-54	<1.72E+01	0.00E+00	1.72E+01
			Co-58	<1.58E+01	0.00E+00	1.58E+01
			Fe-59	<4.54E+01	0.00E+00	4.54E+01
			Co-60	<2.28E+01	0.00E+00	2.28E+01
			Zn-65	<4.69E+01	0.00E+00	4.69E+01
			Zr-95	<4.87E+01	0.00E+00	4.87E+01
			Nb-95	<2.25E+01	0.00E+00	2.25E+01
			I-131	<1.83E+01	0.00E+00	1.83E+01
			Cs-134	<2.66E+01	0.00E+00	2.66E+01
			Cs-137	<2.38E+01	0.00E+00	2.38E+01
			BaLa-140	<3.23E+01	0.00E+00	3.23E+01
			Be-7	3.45E+03	4.78E+02	2.75E+02
			K-40	1.45E+03	3.75E+02	2.51E+02
375784	4/1/2015 - 4/1/2015		Mn-54	<1.98E+01	0.00E+00	1.98E+01
			Co-58	<1.95E+01	0.00E+00	1.95E+01
			Fe-59	<5.36E+01	0.00E+00	5.36E+01
			Co-60	<2.16E+01	0.00E+00	2.16E+01
			Zn-65	<4.49E+01	0.00E+00	4.49E+01
			Zr-95	<2.72E+01	0.00E+00	2.72E+01
			Nb-95	<1.60E+01	0.00E+00	1.60E+01
			I-131	<3.24E+01	0.00E+00	3.24E+01
			Cs-134	<1.96E+01	0.00E+00	1.96E+01
			Cs-137	<2.40E+01	0.00E+00	2.40E+01
			BaLa-140	<3.95E+01	0.00E+00	3.95E+01
			Be-7	3.63E+03	4.88E+02	2.48E+02
			K-40	1.83E+03	4.18E+02	2.80E+02
378794	5/4/2015 - 5/4/2015		Mn-54	<1.52E+01	0.00E+00	1.52E+01
			Co-58	<1.68E+01	0.00E+00	1.68E+01
			Fe-59	<3.12E+01	0.00E+00	3.12E+01
			Co-60	<1.67E+01	0.00E+00	1.67E+01
			Zn-65	<3.19E+01	0.00E+00	3.19E+01
			Zr-95	<2.79E+01	0.00E+00	2.79E+01
			Nb-95	<1.14E+01	0.00E+00	1.14E+01
			I-131	<1.44E+01	0.00E+00	1.44E+01
			Cs-134	<2.17E+01	0.00E+00	2.17E+01
			Cs-137	<1.75E+01	0.00E+00	1.75E+01
			BaLa-140	<5.29E+00	0.00E+00	5.29E+00
			Be-7	2.00E+03	3.04E+02	2.10E+02
			K-40	2.98E+03	5.14E+02	3.45E+02
380664	6/1/2015 - 6/1/2015		Mn-54	<2.23E+01	0.00E+00	2.23E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 801 [ INDICATOR - SW @ 0.8 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
380664	6/1/2015 - 6/1/2015	WAXMYRTLE	Co-58	<2.48E+01	0.00E+00	2.48E+01
			Fe-59	<4.67E+01	0.00E+00	4.67E+01
			Co-60	<2.78E+01	0.00E+00	2.78E+01
			Zn-65	<7.28E+01	0.00E+00	7.28E+01
			Zr-95	<3.81E+01	0.00E+00	3.81E+01
			Nb-95	<2.83E+01	0.00E+00	2.83E+01
			I-131	<2.34E+01	0.00E+00	2.34E+01
			Cs-134	<3.09E+01	0.00E+00	3.09E+01
			Cs-137	<2.98E+01	0.00E+00	2.98E+01
			BaLa-140	<3.17E+01	0.00E+00	3.17E+01
			Be-7	8.09E+02	2.23E+02	2.15E+02
			K-40	2.78E+03	5.84E+02	3.54E+02
			382675	7/1/2015 - 7/1/2015	WAXMYRTLE	Mn-54
Co-58	<1.46E+01	0.00E+00				1.46E+01
Fe-59	<3.40E+01	0.00E+00				3.40E+01
Co-60	<1.22E+01	0.00E+00				1.22E+01
Zn-65	<3.82E+01	0.00E+00				3.82E+01
Zr-95	<3.00E+01	0.00E+00				3.00E+01
Nb-95	<1.29E+01	0.00E+00				1.29E+01
I-131	<2.05E+01	0.00E+00				2.05E+01
Cs-134	<1.42E+01	0.00E+00				1.42E+01
Cs-137	<1.90E+01	0.00E+00				1.90E+01
BaLa-140	<1.91E+01	0.00E+00				1.91E+01
Be-7	8.18E+02	1.73E+02				1.41E+02
K-40	3.02E+03	4.89E+02				2.63E+02
385697	8/3/2015 - 8/3/2015	WAXMYRTLE	Mn-54	<1.62E+01	0.00E+00	1.62E+01
			Co-58	<1.50E+01	0.00E+00	1.50E+01
			Fe-59	<3.20E+01	0.00E+00	3.20E+01
			Co-60	<1.63E+01	0.00E+00	1.63E+01
			Zn-65	<2.89E+01	0.00E+00	2.89E+01
			Zr-95	<2.35E+01	0.00E+00	2.35E+01
			Nb-95	<1.54E+01	0.00E+00	1.54E+01
			I-131	<2.44E+01	0.00E+00	2.44E+01
			Cs-134	<1.81E+01	0.00E+00	1.81E+01
			Cs-137	<1.37E+01	0.00E+00	1.37E+01
			BaLa-140	<2.12E+01	0.00E+00	2.12E+01
			Be-7	1.41E+03	2.42E+02	1.89E+02
			K-40	2.39E+03	4.09E+02	1.94E+02
389161	9/1/2015 - 9/1/2015	WAXMYRTLE	Mn-54	<1.93E+01	0.00E+00	1.93E+01
			Co-58	<1.99E+01	0.00E+00	1.99E+01
			Fe-59	<3.97E+01	0.00E+00	3.97E+01
			Co-60	<2.58E+01	0.00E+00	2.58E+01
			Zn-65	<5.12E+01	0.00E+00	5.12E+01
			Zr-95	<2.28E+01	0.00E+00	2.28E+01
			Nb-95	<1.68E+01	0.00E+00	1.68E+01
			I-131	<1.78E+01	0.00E+00	1.78E+01
			Cs-134	<2.08E+01	0.00E+00	2.08E+01
			Cs-137	<2.03E+01	0.00E+00	2.03E+01
			BaLa-140	<1.52E+01	0.00E+00	1.52E+01
			Be-7	6.42E+02	2.02E+02	2.51E+02
			K-40	2.58E+03	5.06E+02	3.89E+02
392761	10/1/2015 - 10/1/2015	WAXMYRTLE	Mn-54	<9.90E+00	0.00E+00	9.90E+00
			Co-58	<1.54E+01	0.00E+00	1.54E+01
			Fe-59	<3.08E+01	0.00E+00	3.08E+01
			Co-60	<2.32E+01	0.00E+00	2.32E+01
			Zn-65	<3.84E+01	0.00E+00	3.84E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 801 [ INDICATOR - SW @ 0.8 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
392761	10/1/2015 - 10/1/2015	WAXMYRTLE	Zr-95	<2.68E+01	0.00E+00	2.68E+01
			Nb-95	<1.19E+01	0.00E+00	1.19E+01
			I-131	<2.53E+01	0.00E+00	2.53E+01
			Cs-134	<1.68E+01	0.00E+00	1.68E+01
			Cs-137	<1.86E+01	0.00E+00	1.86E+01
			BaLa-140	<3.31E+01	0.00E+00	3.31E+01
			Be-7	2.43E+03	3.56E+02	2.20E+02
			K-40	1.51E+03	3.44E+02	2.05E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
395497	11/2/2015 - 11/2/2015	WAXMYRTLE	Mn-54	<1.74E+01	0.00E+00	1.74E+01
			Co-58	<1.52E+01	0.00E+00	1.52E+01
			Fe-59	<3.21E+01	0.00E+00	3.21E+01
			Co-60	<2.38E+01	0.00E+00	2.38E+01
			Zn-65	<3.86E+01	0.00E+00	3.86E+01
			Zr-95	<3.19E+01	0.00E+00	3.19E+01
			Nb-95	<1.49E+01	0.00E+00	1.49E+01
			I-131	<1.81E+01	0.00E+00	1.81E+01
			Cs-134	<1.83E+01	0.00E+00	1.83E+01
			Cs-137	<1.86E+01	0.00E+00	1.86E+01
			BaLa-140	<3.33E+01	0.00E+00	3.33E+01
			Be-7	1.62E+03	2.88E+02	2.27E+02
			K-40	2.18E+03	4.47E+02	2.80E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
397697	12/1/2015 - 12/1/2015	WAXMYRTLE	Mn-54	<1.73E+01	0.00E+00	1.73E+01
			Co-58	<1.55E+01	0.00E+00	1.55E+01
			Fe-59	<2.85E+01	0.00E+00	2.85E+01
			Co-60	<1.98E+01	0.00E+00	1.98E+01
			Zn-65	<4.18E+01	0.00E+00	4.18E+01
			Zr-95	<2.69E+01	0.00E+00	2.69E+01
			Nb-95	<1.75E+01	0.00E+00	1.75E+01
			I-131	<1.90E+01	0.00E+00	1.90E+01
			Cs-134	<1.52E+01	0.00E+00	1.52E+01
			Cs-137	<1.95E+01	0.00E+00	1.95E+01
			BaLa-140	<1.50E+01	0.00E+00	1.50E+01
			Be-7	2.80E+03	3.81E+02	2.05E+02
			K-40	1.92E+03	4.21E+02	3.52E+02

**Sample Point 802 [ CONTROL - -- @ 10.1 miles ]**

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
365702	1/5/2015 - 1/5/2015	WAXMYRTLE	Mn-54	<2.96E+01	0.00E+00	2.96E+01
			Co-58	<3.09E+01	0.00E+00	3.09E+01
			Fe-59	<6.83E+01	0.00E+00	6.83E+01
			Co-60	<4.12E+01	0.00E+00	4.12E+01
			Zn-65	<6.84E+01	0.00E+00	6.84E+01
			Zr-95	<4.69E+01	0.00E+00	4.69E+01
			Nb-95	<2.91E+01	0.00E+00	2.91E+01
			I-131	<3.70E+01	0.00E+00	3.70E+01
			Cs-134	<3.95E+01	0.00E+00	3.95E+01
			Cs-137	<5.22E+01	0.00E+00	5.22E+01
			BaLa-140	<2.58E+01	0.00E+00	2.58E+01
			Be-7	3.45E+03	5.27E+02	3.55E+02
			K-40	1.91E+03	4.82E+02	2.89E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
369319	2/2/2015 - 2/2/2015	WAXMYRTLE	Mn-54	<1.38E+01	0.00E+00	1.38E+01
			Co-58	<1.58E+01	0.00E+00	1.58E+01
			Fe-59	<3.15E+01	0.00E+00	3.15E+01
			Co-60	<2.20E+01	0.00E+00	2.20E+01
			Zn-65	<3.70E+01	0.00E+00	3.70E+01
			Zr-95	<1.54E+01	0.00E+00	1.54E+01
			Nb-95	<1.27E+01	0.00E+00	1.27E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 802 [ CONTROL - -- @ 10.1 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
369319	2/2/2015 - 2/2/2015	WAXMYRTLE	I-131	<2.36E+01	0.00E+00	2.36E+01
			Cs-134	<1.44E+01	0.00E+00	1.44E+01
			Cs-137	<1.06E+01	0.00E+00	1.06E+01
			BaLa-140	<6.26E+00	0.00E+00	6.26E+00
			Be-7	4.87E+03	5.60E+02	1.69E+02
			K-40	8.49E+02	2.38E+02	1.76E+02
372307	3/1/2015 - 3/1/2015	WAXMYRTLE	Mn-54	<1.49E+01	0.00E+00	1.49E+01
			Co-58	<1.58E+01	0.00E+00	1.58E+01
			Fe-59	<3.22E+01	0.00E+00	3.22E+01
			Co-60	<1.33E+01	0.00E+00	1.33E+01
			Zn-65	<2.33E+01	0.00E+00	2.33E+01
			Zr-95	<2.26E+01	0.00E+00	2.26E+01
			Nb-95	<1.55E+01	0.00E+00	1.55E+01
			I-131	<1.77E+01	0.00E+00	1.77E+01
			Cs-134	<1.33E+01	0.00E+00	1.33E+01
			Cs-137	<1.44E+01	0.00E+00	1.44E+01
			BaLa-140	<1.49E+01	0.00E+00	1.49E+01
			Be-7	3.94E+03	4.80E+02	1.80E+02
			K-40	1.47E+03	3.32E+02	2.19E+02
375785	4/1/2015 - 4/1/2015	WAXMYRTLE	Mn-54	<1.85E+01	0.00E+00	1.85E+01
			Co-58	<2.09E+01	0.00E+00	2.09E+01
			Fe-59	<2.53E+01	0.00E+00	2.53E+01
			Co-60	<1.91E+01	0.00E+00	1.91E+01
			Zn-65	<4.23E+01	0.00E+00	4.23E+01
			Zr-95	<3.65E+01	0.00E+00	3.65E+01
			Nb-95	<1.79E+01	0.00E+00	1.79E+01
			I-131	<2.88E+01	0.00E+00	2.88E+01
			Cs-134	<2.32E+01	0.00E+00	2.32E+01
			Cs-137	<2.32E+01	0.00E+00	2.32E+01
			BaLa-140	<3.51E+01	0.00E+00	3.51E+01
			Be-7	3.42E+03	4.61E+02	2.65E+02
			K-40	2.07E+03	4.03E+02	4.31E+01
378795	5/4/2015 - 5/4/2015	WAXMYRTLE	Mn-54	<9.80E+00	0.00E+00	9.80E+00
			Co-58	<7.95E+00	0.00E+00	7.95E+00
			Fe-59	<1.97E+01	0.00E+00	1.97E+01
			Co-60	<1.06E+01	0.00E+00	1.06E+01
			Zn-65	<1.93E+01	0.00E+00	1.93E+01
			Zr-95	<1.53E+01	0.00E+00	1.53E+01
			Nb-95	<1.05E+01	0.00E+00	1.05E+01
			I-131	<9.97E+00	0.00E+00	9.97E+00
			Cs-134	<1.07E+01	0.00E+00	1.07E+01
			Cs-137	3.72E+01	1.33E+01	1.75E+01
			BaLa-140	<9.71E+00	0.00E+00	9.71E+00
			Be-7	6.55E+02	1.30E+02	1.36E+02
			K-40	2.46E+03	3.32E+02	1.47E+02
380665	6/1/2015 - 6/1/2015	WAXMYRTLE	Mn-54	<1.22E+01	0.00E+00	1.22E+01
			Co-58	<1.35E+01	0.00E+00	1.35E+01
			Fe-59	<2.99E+01	0.00E+00	2.99E+01
			Co-60	<1.70E+01	0.00E+00	1.70E+01
			Zn-65	<3.57E+01	0.00E+00	3.57E+01
			Zr-95	<2.83E+01	0.00E+00	2.83E+01
			Nb-95	<1.68E+01	0.00E+00	1.68E+01
			I-131	<1.49E+01	0.00E+00	1.49E+01
			Cs-134	<1.62E+01	0.00E+00	1.62E+01
			Cs-137	2.23E+01	1.32E+01	1.91E+01
			BaLa-140	<1.62E+01	0.00E+00	1.62E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 802 [ CONTROL - -- @ 10.1 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
380665	6/1/2015 - 6/1/2015	WAXMYRTLE	Be-7	4.77E+02	1.32E+02	1.54E+02
			K-40	2.44E+03	3.74E+02	2.78E+01
382676	7/1/2015 - 7/1/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
			Mn-54	<2.00E+01	0.00E+00	2.00E+01
			Co-58	<2.04E+01	0.00E+00	2.04E+01
			Fe-59	<3.83E+01	0.00E+00	3.83E+01
			Co-60	<4.49E+00	0.00E+00	4.49E+00
			Zn-65	<3.50E+01	0.00E+00	3.50E+01
			Zr-95	<3.39E+01	0.00E+00	3.39E+01
			Nb-95	<1.53E+01	0.00E+00	1.53E+01
			I-131	<2.35E+01	0.00E+00	2.35E+01
			Cs-134	<2.04E+01	0.00E+00	2.04E+01
			Cs-137	<3.07E+01	0.00E+00	3.07E+01
			BaLa-140	<2.41E+01	0.00E+00	2.41E+01
			Be-7	1.39E+03	2.64E+02	2.10E+02
			K-40	1.75E+03	4.15E+02	3.57E+02
385698	8/3/2015 - 8/3/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
			Mn-54	<1.31E+01	0.00E+00	1.31E+01
			Co-58	<1.69E+01	0.00E+00	1.69E+01
			Fe-59	<2.47E+01	0.00E+00	2.47E+01
			Co-60	<2.24E+01	0.00E+00	2.24E+01
			Zn-65	<2.20E+01	0.00E+00	2.20E+01
			Zr-95	<3.29E+01	0.00E+00	3.29E+01
			Nb-95	<1.74E+01	0.00E+00	1.74E+01
			I-131	<2.75E+01	0.00E+00	2.75E+01
			Cs-134	<1.95E+01	0.00E+00	1.95E+01
			Cs-137	<2.04E+01	0.00E+00	2.04E+01
			BaLa-140	<2.66E+01	0.00E+00	2.66E+01
			Be-7	1.00E+03	2.08E+02	1.81E+02
			K-40	1.91E+03	3.66E+02	1.70E+02
389162	9/1/2015 - 9/1/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
			Mn-54	<1.55E+01	0.00E+00	1.55E+01
			Co-58	<1.54E+01	0.00E+00	1.54E+01
			Fe-59	<2.06E+01	0.00E+00	2.06E+01
			Co-60	<1.32E+01	0.00E+00	1.32E+01
			Zn-65	<4.31E+01	0.00E+00	4.31E+01
			Zr-95	<3.16E+01	0.00E+00	3.16E+01
			Nb-95	<2.00E+01	0.00E+00	2.00E+01
			I-131	<1.12E+01	0.00E+00	1.12E+01
			Cs-134	<2.06E+01	0.00E+00	2.06E+01
			Cs-137	<1.33E+01	0.00E+00	1.33E+01
			BaLa-140	<1.39E+01	0.00E+00	1.39E+01
			Be-7	1.32E+03	2.42E+02	2.02E+02
			K-40	1.42E+03	3.34E+02	2.59E+02
392762	10/1/2015 - 10/1/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
			Mn-54	<1.86E+01	0.00E+00	1.86E+01
			Co-58	<1.67E+01	0.00E+00	1.67E+01
			Fe-59	<3.47E+01	0.00E+00	3.47E+01
			Co-60	<2.10E+01	0.00E+00	2.10E+01
			Zn-65	<3.43E+01	0.00E+00	3.43E+01
			Zr-95	<2.58E+01	0.00E+00	2.58E+01
			Nb-95	<1.68E+01	0.00E+00	1.68E+01
			I-131	<2.11E+01	0.00E+00	2.11E+01
			Cs-134	<2.30E+01	0.00E+00	2.30E+01
			Cs-137	<1.92E+01	0.00E+00	1.92E+01
			BaLa-140	<2.92E+01	0.00E+00	2.92E+01
			Be-7	9.45E+02	2.22E+02	2.34E+02
			K-40	1.08E+03	3.28E+02	3.50E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 802 [ CONTROL - -- @ 10.1 miles ]

Sample ID:	Sample Dates:	WAXMYRTLLE	Nuclide	Activity	2 Sigma Error	LLD
395498	11/2/2015 - 11/2/2015	WAXMYRTLLE	Mn-54	<1.92E+01	0.00E+00	1.92E+01
			Co-58	<1.75E+01	0.00E+00	1.75E+01
			Fe-59	<3.04E+01	0.00E+00	3.04E+01
			Co-60	<1.48E+01	0.00E+00	1.48E+01
			Zn-65	<3.35E+01	0.00E+00	3.35E+01
			Zr-95	<2.51E+01	0.00E+00	2.51E+01
			Nb-95	<2.24E+01	0.00E+00	2.24E+01
			I-131	<1.87E+01	0.00E+00	1.87E+01
			Cs-134	<2.48E+01	0.00E+00	2.48E+01
			Cs-137	<2.44E+01	0.00E+00	2.44E+01
			BaLa-140	<2.07E+01	0.00E+00	2.07E+01
			Be-7	2.05E+03	3.26E+02	2.37E+02
			K-40	1.88E+03	3.87E+02	1.79E+02

Sample ID:	Sample Dates:	WAXMYRTLLE	Nuclide	Activity	2 Sigma Error	LLD
397698	12/1/2015 - 12/1/2015	WAXMYRTLLE	Mn-54	<1.74E+01	0.00E+00	1.74E+01
			Co-58	<1.63E+01	0.00E+00	1.63E+01
			Fe-59	<3.72E+01	0.00E+00	3.72E+01
			Co-60	<1.56E+01	0.00E+00	1.56E+01
			Zn-65	<3.16E+01	0.00E+00	3.16E+01
			Zr-95	<3.77E+01	0.00E+00	3.77E+01
			Nb-95	<1.87E+01	0.00E+00	1.87E+01
			I-131	<1.99E+01	0.00E+00	1.99E+01
			Cs-134	<2.07E+01	0.00E+00	2.07E+01
			Cs-137	<1.96E+01	0.00E+00	1.96E+01
			BaLa-140	<2.42E+01	0.00E+00	2.42E+01
			Be-7	4.05E+03	5.13E+02	2.53E+02
			K-40	1.20E+03	3.22E+02	2.38E+02

Sample Point 803 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	WAXMYRTLLE	Nuclide	Activity	2 Sigma Error	LLD
365703	1/5/2015 - 1/5/2015	WAXMYRTLLE	Mn-54	<2.72E+01	0.00E+00	2.72E+01
			Co-58	<2.40E+01	0.00E+00	2.40E+01
			Fe-59	<4.66E+01	0.00E+00	4.66E+01
			Co-60	<3.67E+01	0.00E+00	3.67E+01
			Zn-65	<5.51E+01	0.00E+00	5.51E+01
			Zr-95	<4.87E+01	0.00E+00	4.87E+01
			Nb-95	<2.45E+01	0.00E+00	2.45E+01
			I-131	<2.41E+01	0.00E+00	2.41E+01
			Cs-134	<3.05E+01	0.00E+00	3.05E+01
			Cs-137	<3.37E+01	0.00E+00	3.37E+01
			BaLa-140	<2.10E+01	0.00E+00	2.10E+01
			Be-7	1.84E+03	3.99E+02	4.50E+02
			K-40	1.58E+03	4.27E+02	3.50E+02

Sample ID:	Sample Dates:	WAXMYRTLLE	Nuclide	Activity	2 Sigma Error	LLD
369320	2/2/2015 - 2/2/2015	WAXMYRTLLE	Mn-54	<1.35E+01	0.00E+00	1.35E+01
			Co-58	<1.10E+01	0.00E+00	1.10E+01
			Fe-59	<2.24E+01	0.00E+00	2.24E+01
			Co-60	<9.12E+00	0.00E+00	9.12E+00
			Zn-65	<2.86E+01	0.00E+00	2.86E+01
			Zr-95	<2.08E+01	0.00E+00	2.08E+01
			Nb-95	<1.34E+01	0.00E+00	1.34E+01
			I-131	<1.68E+01	0.00E+00	1.68E+01
			Cs-134	<1.32E+01	0.00E+00	1.32E+01
			Cs-137	<1.31E+01	0.00E+00	1.31E+01
			BaLa-140	<1.23E+01	0.00E+00	1.23E+01
			Be-7	2.10E+03	2.63E+02	1.34E+02
			K-40	1.64E+03	2.88E+02	2.13E+02

Sample ID:	Sample Dates:	WAXMYRTLLE	Nuclide	Activity	2 Sigma Error	LLD
372308	3/1/2015 - 3/1/2015	WAXMYRTLLE	Mn-54	<1.84E+01	0.00E+00	1.84E+01
			Co-58	<1.50E+01	0.00E+00	1.50E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 803 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
372308	3/1/2015 - 3/1/2015	WAXMYRTLE	Fe-59	<3.92E+01	0.00E+00	3.92E+01
			Co-60	<1.43E+01	0.00E+00	1.43E+01
			Zn-65	<4.48E+01	0.00E+00	4.48E+01
			Zr-95	<2.78E+01	0.00E+00	2.78E+01
			Nb-95	<1.67E+01	0.00E+00	1.67E+01
			I-131	<2.05E+01	0.00E+00	2.05E+01
			Cs-134	<1.88E+01	0.00E+00	1.88E+01
			Cs-137	<1.99E+01	0.00E+00	1.99E+01
			BaLa-140	<2.97E+01	0.00E+00	2.97E+01
			Be-7	2.83E+03	3.95E+02	2.11E+02
			K-40	1.56E+03	3.91E+02	3.70E+02
			375786	4/1/2015 - 4/1/2015	WAXMYRTLE	Mn-54
Co-58	<1.62E+01	0.00E+00				1.62E+01
Fe-59	<4.08E+01	0.00E+00				4.08E+01
Co-60	<1.91E+01	0.00E+00				1.91E+01
Zn-65	<3.02E+01	0.00E+00				3.02E+01
Zr-95	<4.14E+01	0.00E+00				4.14E+01
Nb-95	<1.55E+01	0.00E+00				1.55E+01
I-131	<2.88E+01	0.00E+00				2.88E+01
Cs-134	<1.73E+01	0.00E+00				1.73E+01
Cs-137	<2.11E+01	0.00E+00				2.11E+01
BaLa-140	<7.89E+00	0.00E+00				7.89E+00
Be-7	2.09E+03	3.22E+02				1.79E+02
K-40	1.93E+03	4.05E+02	2.50E+02			
378796	5/4/2015 - 5/4/2015	WAXMYRTLE	Mn-54	<1.26E+01	0.00E+00	1.26E+01
			Co-58	<1.49E+01	0.00E+00	1.49E+01
			Fe-59	<2.71E+01	0.00E+00	2.71E+01
			Co-60	<2.36E+01	0.00E+00	2.36E+01
			Zn-65	<2.73E+01	0.00E+00	2.73E+01
			Zr-95	<2.46E+01	0.00E+00	2.46E+01
			Nb-95	<1.24E+01	0.00E+00	1.24E+01
			I-131	<1.45E+01	0.00E+00	1.45E+01
			Cs-134	<1.50E+01	0.00E+00	1.50E+01
			Cs-137	<1.79E+01	0.00E+00	1.79E+01
			BaLa-140	<1.71E+01	0.00E+00	1.71E+01
			Be-7	1.30E+03	2.29E+02	1.74E+02
K-40	2.51E+03	4.27E+02	1.81E+02			
380666	6/1/2015 - 6/1/2015	WAXMYRTLE	Mn-54	<2.66E+01	0.00E+00	2.66E+01
			Co-58	<2.24E+01	0.00E+00	2.24E+01
			Fe-59	<5.44E+01	0.00E+00	5.44E+01
			Co-60	<2.79E+01	0.00E+00	2.79E+01
			Zn-65	<6.74E+01	0.00E+00	6.74E+01
			Zr-95	<3.61E+01	0.00E+00	3.61E+01
			Nb-95	<2.44E+01	0.00E+00	2.44E+01
			I-131	<2.10E+01	0.00E+00	2.10E+01
			Cs-134	<2.69E+01	0.00E+00	2.69E+01
			Cs-137	<2.46E+01	0.00E+00	2.46E+01
			BaLa-140	<2.25E+01	0.00E+00	2.25E+01
			Be-7	3.49E+02	2.01E+02	2.90E+02
K-40	2.69E+03	5.84E+02	4.09E+02			
382677	7/1/2015 - 7/1/2015	WAXMYRTLE	Mn-54	<2.71E+01	0.00E+00	2.71E+01
			Co-58	<1.88E+01	0.00E+00	1.88E+01
			Fe-59	<3.35E+01	0.00E+00	3.35E+01
			Co-60	<1.76E+01	0.00E+00	1.76E+01
			Zn-65	<4.37E+01	0.00E+00	4.37E+01
			Zr-95	<4.66E+01	0.00E+00	4.66E+01





**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

Media Type: VEGETATION Concentration (Activity): pCi/kg wet  
 Sample Point 803 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD			
382677	7/1/2015 - 7/1/2015	WAXMYRTLE	Nb-95	<1.60E+01	0.00E+00	1.60E+01			
			I-131	<2.15E+01	0.00E+00	2.15E+01			
			Cs-134	<1.76E+01	0.00E+00	1.76E+01			
			Cs-137	<2.10E+01	0.00E+00	2.10E+01			
			BaLa-140	<4.19E+01	0.00E+00	4.19E+01			
			Be-7	9.92E+02	2.24E+02	1.79E+02			
			K-40	3.30E+03	5.91E+02	3.07E+02			
385699	8/3/2015 - 8/3/2015	WAXMYRTLE	Mn-54	<8.96E+00	0.00E+00	8.96E+00			
			Co-58	<1.17E+01	0.00E+00	1.17E+01			
			Fe-59	<3.20E+01	0.00E+00	3.20E+01			
			Co-60	<1.29E+01	0.00E+00	1.29E+01			
			Zn-65	<3.16E+01	0.00E+00	3.16E+01			
			Zr-95	<2.15E+01	0.00E+00	2.15E+01			
			Nb-95	<1.39E+01	0.00E+00	1.39E+01			
			I-131	<1.71E+01	0.00E+00	1.71E+01			
			Cs-134	<1.45E+01	0.00E+00	1.45E+01			
			Cs-137	<1.13E+01	0.00E+00	1.13E+01			
			BaLa-140	<1.45E+01	0.00E+00	1.45E+01			
			Be-7	3.55E+02	1.33E+02	1.75E+02			
			K-40	1.79E+03	3.24E+02	1.65E+02			
			389163	9/1/2015 - 9/1/2015	WAXMYRTLE	Mn-54	<1.37E+01	0.00E+00	1.37E+01
Co-58	<1.65E+01	0.00E+00				1.65E+01			
Fe-59	<3.78E+01	0.00E+00				3.78E+01			
Co-60	<1.12E+01	0.00E+00				1.12E+01			
Zn-65	<1.96E+01	0.00E+00				1.96E+01			
Zr-95	<2.86E+01	0.00E+00				2.86E+01			
Nb-95	<1.51E+01	0.00E+00				1.51E+01			
I-131	<1.77E+01	0.00E+00				1.77E+01			
Cs-134	<1.54E+01	0.00E+00				1.54E+01			
Cs-137	<2.04E+01	0.00E+00				2.04E+01			
BaLa-140	<1.49E+01	0.00E+00				1.49E+01			
Be-7	2.16E+03	3.20E+02				1.65E+02			
K-40	2.63E+03	4.69E+02				2.21E+02			
392763	10/1/2015 - 10/1/2015	WAXMYRTLE				Mn-54	<1.99E+01	0.00E+00	1.99E+01
						Co-58	<2.48E+01	0.00E+00	2.48E+01
			Fe-59	<4.80E+01	0.00E+00	4.80E+01			
			Co-60	<3.11E+01	0.00E+00	3.11E+01			
			Zn-65	<4.66E+01	0.00E+00	4.66E+01			
			Zr-95	<4.73E+01	0.00E+00	4.73E+01			
			Nb-95	<2.36E+01	0.00E+00	2.36E+01			
			I-131	<3.05E+01	0.00E+00	3.05E+01			
			Cs-134	<2.55E+01	0.00E+00	2.55E+01			
			Cs-137	<2.65E+01	0.00E+00	2.65E+01			
			BaLa-140	<2.66E+01	0.00E+00	2.66E+01			
			Be-7	2.22E+03	3.82E+02	2.66E+02			
			K-40	2.52E+03	5.38E+02	3.12E+02			
			395499	11/2/2015 - 11/2/2015	WAXMYRTLE	Mn-54	<1.66E+01	0.00E+00	1.66E+01
Co-58	<1.25E+01	0.00E+00				1.25E+01			
Fe-59	<2.89E+01	0.00E+00				2.89E+01			
Co-60	<1.29E+01	0.00E+00				1.29E+01			
Zn-65	<4.04E+01	0.00E+00				4.04E+01			
Zr-95	<2.49E+01	0.00E+00				2.49E+01			
Nb-95	<1.70E+01	0.00E+00				1.70E+01			
I-131	<1.69E+01	0.00E+00				1.69E+01			
Cs-134	<1.60E+01	0.00E+00				1.60E+01			
Cs-137	<1.85E+01	0.00E+00				1.85E+01			



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 803 [ INDICATOR - SSE @ 0.6 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
395499	11/2/2015 - 11/2/2015		BaLa-140	<2.93E+01	0.00E+00	2.93E+01
			Be-7	4.34E+03	5.21E+02	2.76E+02
			K-40	1.79E+03	3.58E+02	1.72E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
397699	12/1/2015 - 12/1/2015		Mn-54	<1.69E+01	0.00E+00	1.69E+01
			Co-58	<1.81E+01	0.00E+00	1.81E+01
			Fe-59	<3.55E+01	0.00E+00	3.55E+01
			Co-60	<2.66E+01	0.00E+00	2.66E+01
			Zn-65	<2.42E+01	0.00E+00	2.42E+01
			Zr-95	<2.92E+01	0.00E+00	2.92E+01
			Nb-95	<1.98E+01	0.00E+00	1.98E+01
			I-131	<2.30E+01	0.00E+00	2.30E+01
			Cs-134	<1.90E+01	0.00E+00	1.90E+01
			Cs-137	<2.93E+01	0.00E+00	2.93E+01
			BaLa-140	<3.03E+01	0.00E+00	3.03E+01
			Be-7	5.21E+03	6.24E+02	2.38E+02
			K-40	2.00E+03	4.43E+02	2.70E+02

Sample Point 804 [ INDICATOR - S @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
365704	1/5/2015 - 1/5/2015		Mn-54	<1.76E+01	0.00E+00	1.76E+01
			Co-58	<1.76E+01	0.00E+00	1.76E+01
			Fe-59	<5.01E+01	0.00E+00	5.01E+01
			Co-60	<2.79E+01	0.00E+00	2.79E+01
			Zn-65	<5.88E+01	0.00E+00	5.88E+01
			Zr-95	<3.19E+01	0.00E+00	3.19E+01
			Nb-95	<2.13E+01	0.00E+00	2.13E+01
			I-131	<2.31E+01	0.00E+00	2.31E+01
			Cs-134	<2.66E+01	0.00E+00	2.66E+01
			Cs-137	<2.71E+01	0.00E+00	2.71E+01
			BaLa-140	<1.95E+01	0.00E+00	1.95E+01
			Be-7	1.65E+03	3.67E+02	4.55E+02
			K-40	1.58E+03	4.15E+02	4.37E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
369321	2/2/2015 - 2/2/2015		Mn-54	<2.22E+01	0.00E+00	2.22E+01
			Co-58	<2.07E+01	0.00E+00	2.07E+01
			Fe-59	<3.17E+01	0.00E+00	3.17E+01
			Co-60	<1.79E+01	0.00E+00	1.79E+01
			Zn-65	<3.48E+01	0.00E+00	3.48E+01
			Zr-95	<3.45E+01	0.00E+00	3.45E+01
			Nb-95	<2.19E+01	0.00E+00	2.19E+01
			I-131	<1.82E+01	0.00E+00	1.82E+01
			Cs-134	<2.22E+01	0.00E+00	2.22E+01
			Cs-137	<1.99E+01	0.00E+00	1.99E+01
			BaLa-140	<1.73E+01	0.00E+00	1.73E+01
			Be-7	1.81E+03	2.94E+02	1.80E+02
			K-40	1.30E+03	3.23E+02	1.78E+02

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
372309	3/1/2015 - 3/1/2015		Mn-54	<1.89E+01	0.00E+00	1.89E+01
			Co-58	<2.31E+01	0.00E+00	2.31E+01
			Fe-59	<4.67E+01	0.00E+00	4.67E+01
			Co-60	<2.20E+01	0.00E+00	2.20E+01
			Zn-65	<3.45E+01	0.00E+00	3.45E+01
			Zr-95	<4.01E+01	0.00E+00	4.01E+01
			Nb-95	<2.19E+01	0.00E+00	2.19E+01
			I-131	<2.20E+01	0.00E+00	2.20E+01
			Cs-134	<2.35E+01	0.00E+00	2.35E+01
			Cs-137	<2.29E+01	0.00E+00	2.29E+01
			BaLa-140	<3.24E+01	0.00E+00	3.24E+01
			Be-7	1.94E+03	3.37E+02	2.66E+02



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 804 [ INDICATOR - S @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
372309	3/1/2015 - 3/1/2015		K-40	2.00E+03	4.44E+02	3.04E+02
375787	4/1/2015 - 4/1/2015		Mn-54	<1.61E+01	0.00E+00	1.61E+01
			Co-58	<1.46E+01	0.00E+00	1.46E+01
			Fe-59	<4.18E+01	0.00E+00	4.18E+01
			Co-60	<1.66E+01	0.00E+00	1.66E+01
			Zn-65	<3.57E+01	0.00E+00	3.57E+01
			Zr-95	<2.92E+01	0.00E+00	2.92E+01
			Nb-95	<1.38E+01	0.00E+00	1.38E+01
			I-131	<2.80E+01	0.00E+00	2.80E+01
			Cs-134	<1.89E+01	0.00E+00	1.89E+01
			Cs-137	<1.63E+01	0.00E+00	1.63E+01
			BaLa-140	<2.62E+01	0.00E+00	2.62E+01
			Be-7	2.03E+03	3.28E+02	2.31E+02
			K-40	2.02E+03	4.00E+02	1.99E+02
378797	5/4/2015 - 5/4/2015		Mn-54	<1.15E+01	0.00E+00	1.15E+01
			Co-58	<1.09E+01	0.00E+00	1.09E+01
			Fe-59	<3.15E+01	0.00E+00	3.15E+01
			Co-60	<1.75E+01	0.00E+00	1.75E+01
			Zn-65	<2.41E+01	0.00E+00	2.41E+01
			Zr-95	<1.52E+01	0.00E+00	1.52E+01
			Nb-95	<8.59E+00	0.00E+00	8.59E+00
			I-131	<1.40E+01	0.00E+00	1.40E+01
			Cs-134	<1.53E+01	0.00E+00	1.53E+01
			Cs-137	<9.90E+00	0.00E+00	9.90E+00
			BaLa-140	<1.95E+01	0.00E+00	1.95E+01
			Be-7	4.96E+02	1.32E+02	1.44E+02
			K-40	2.30E+03	3.72E+02	1.66E+02
380667	6/1/2015 - 6/1/2015		Mn-54	<2.09E+01	0.00E+00	2.09E+01
			Co-58	<2.08E+01	0.00E+00	2.08E+01
			Fe-59	<4.16E+01	0.00E+00	4.16E+01
			Co-60	<2.44E+01	0.00E+00	2.44E+01
			Zn-65	<4.64E+01	0.00E+00	4.64E+01
			Zr-95	<3.38E+01	0.00E+00	3.38E+01
			Nb-95	<1.76E+01	0.00E+00	1.76E+01
			I-131	<1.98E+01	0.00E+00	1.98E+01
			Cs-134	<2.72E+01	0.00E+00	2.72E+01
			Cs-137	<2.63E+01	0.00E+00	2.63E+01
			BaLa-140	<2.49E+01	0.00E+00	2.49E+01
			Be-7	3.53E+02	1.75E+02	2.42E+02
			K-40	2.52E+03	5.51E+02	4.44E+02
382678	7/1/2015 - 7/1/2015		Mn-54	<1.95E+01	0.00E+00	1.95E+01
			Co-58	<1.74E+01	0.00E+00	1.74E+01
			Fe-59	<3.34E+01	0.00E+00	3.34E+01
			Co-60	<1.87E+01	0.00E+00	1.87E+01
			Zn-65	<4.56E+01	0.00E+00	4.56E+01
			Zr-95	<2.86E+01	0.00E+00	2.86E+01
			Nb-95	<2.14E+01	0.00E+00	2.14E+01
			I-131	<2.33E+01	0.00E+00	2.33E+01
			Cs-134	<1.91E+01	0.00E+00	1.91E+01
			Cs-137	<2.02E+01	0.00E+00	2.02E+01
			BaLa-140	<3.21E+01	0.00E+00	3.21E+01
			Be-7	1.22E+03	2.40E+02	2.00E+02
			K-40	2.36E+03	4.59E+02	3.10E+02
385700	8/3/2015 - 8/3/2015		Mn-54	<1.04E+01	0.00E+00	1.04E+01



# BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)

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

Sample Point 804 [ INDICATOR - S @ 0.7 miles ]

Sample ID:	Sample Dates:	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
385700	8/3/2015 - 8/3/2015	WAXMYRTLE	Co-58	<7.21E+00	0.00E+00	7.21E+00
			Fe-59	<2.12E+01	0.00E+00	2.12E+01
			Co-60	<1.06E+01	0.00E+00	1.06E+01
			Zn-65	<2.51E+01	0.00E+00	2.51E+01
			Zr-95	<1.34E+01	0.00E+00	1.34E+01
			Nb-95	<1.35E+01	0.00E+00	1.35E+01
			I-131	<1.68E+01	0.00E+00	1.68E+01
			Cs-134	<1.03E+01	0.00E+00	1.03E+01
			Cs-137	<1.15E+01	0.00E+00	1.15E+01
			BaLa-140	<2.21E+01	0.00E+00	2.21E+01
			Be-7	9.42E+02	1.68E+02	1.61E+02
			K-40	1.89E+03	3.03E+02	2.14E+02
			389164	9/1/2015 - 9/1/2015	WAXMYRTLE	Mn-54
Co-58	<1.85E+01	0.00E+00				1.85E+01
Fe-59	<4.05E+01	0.00E+00				4.05E+01
Co-60	<1.87E+01	0.00E+00				1.87E+01
Zn-65	<3.26E+01	0.00E+00				3.26E+01
Zr-95	<3.81E+01	0.00E+00				3.81E+01
Nb-95	<2.00E+01	0.00E+00				2.00E+01
I-131	<1.63E+01	0.00E+00				1.63E+01
Cs-134	<2.33E+01	0.00E+00				2.33E+01
Cs-137	<2.20E+01	0.00E+00				2.20E+01
BaLa-140	<1.92E+01	0.00E+00				1.92E+01
Be-7	7.06E+02	1.88E+02				2.04E+02
K-40	2.22E+03	4.15E+02				4.24E+01
392764	10/1/2015 - 10/1/2015	WAXMYRTLE	Mn-54	<1.68E+01	0.00E+00	1.68E+01
			Co-58	<1.41E+01	0.00E+00	1.41E+01
			Fe-59	<5.13E+01	0.00E+00	5.13E+01
			Co-60	<1.72E+01	0.00E+00	1.72E+01
			Zn-65	<3.92E+01	0.00E+00	3.92E+01
			Zr-95	<3.62E+01	0.00E+00	3.62E+01
			Nb-95	<2.40E+01	0.00E+00	2.40E+01
			I-131	<2.17E+01	0.00E+00	2.17E+01
			Cs-134	<2.38E+01	0.00E+00	2.38E+01
			Cs-137	<2.05E+01	0.00E+00	2.05E+01
			BaLa-140	<3.69E+01	0.00E+00	3.69E+01
			Be-7	1.76E+03	3.27E+02	2.71E+02
			K-40	1.62E+03	4.03E+02	3.05E+02
395500	11/2/2015 - 11/2/2015	WAXMYRTLE	Mn-54	<1.11E+01	0.00E+00	1.11E+01
			Co-58	<2.17E+01	0.00E+00	2.17E+01
			Fe-59	<2.56E+01	0.00E+00	2.56E+01
			Co-60	<2.09E+01	0.00E+00	2.09E+01
			Zn-65	<4.81E+01	0.00E+00	4.81E+01
			Zr-95	<3.29E+01	0.00E+00	3.29E+01
			Nb-95	<2.04E+01	0.00E+00	2.04E+01
			I-131	<1.99E+01	0.00E+00	1.99E+01
			Cs-134	<1.88E+01	0.00E+00	1.88E+01
			Cs-137	<1.38E+01	0.00E+00	1.38E+01
			BaLa-140	<3.46E+01	0.00E+00	3.46E+01
			Be-7	2.03E+03	3.30E+02	2.17E+02
			K-40	<3.83E+02	0.00E+00	3.83E+02
397700	12/1/2015 - 12/1/2015	WAXMYRTLE	Mn-54	<1.51E+01	0.00E+00	1.51E+01
			Co-58	<1.51E+01	0.00E+00	1.51E+01
			Fe-59	<4.56E+01	0.00E+00	4.56E+01
			Co-60	<2.20E+01	0.00E+00	2.20E+01
			Zn-65	<4.50E+01	0.00E+00	4.50E+01



**BRUNSWICK Radiological Environmental Monitoring Analysis Report - 2015 (Appendix E)**

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

Sample Point 804 [ INDICATOR - S @ 0.7 miles ]

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Sample ID:	397700	Sample Dates:	12/1/2015 - 12/1/2015	WAXMYRTLE	Nuclide	Activity	2 Sigma Error	LLD
					Zr-95	<2.62E+01	0.00E+00	2.62E+01
					Nb-95	<2.13E+01	0.00E+00	2.13E+01
					I-131	<1.29E+01	0.00E+00	1.29E+01
					Cs-134	<2.24E+01	0.00E+00	2.24E+01
					Cs-137	<2.04E+01	0.00E+00	2.04E+01
					BaLa-140	<2.29E+01	0.00E+00	2.29E+01
					Be-7	1.26E+03	2.63E+02	2.35E+02
					K-40	1.60E+03	4.18E+02	3.81E+02



# **APPENDIX F**

## **ERRATA TO PREVIOUS REPORTS**

There are no Errata to previous BSEP reports included in the BSEP 2015 Radiological Environmental Operating Report.

**PACKAGE  
DIVIDER**

ANO	SUP	FPAC	PAGES	AVAIL
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF
_____	_____	_____	_____	PDR CF

NEW CODES					DESCRIPTION:
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____
AA	RA	DKT	TASK	F2	_____

**PRIMARY FILE LOCATION/LEVEL**

DSB #:

FCEN	F1	F2	F3	
_____	_____	_____	_____	_____

**NOTES/SPECIAL INSTRUCTIONS**      INDEXER QC DDC

Generate New Label      Generate New RIDS Sheet

Encl Contains Prop Info      Refilm: PDR CF PROP

Encl Contains Foldout Pages      Do Not Refilm

**NUCLEAR DOCUMENTS SYSTEM**



ADMIN: \_\_\_\_\_ RIDS: \_\_\_\_\_

REV 2 U6/22/88