ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY CORPORATION
MCGUIRE NUCLEAR STATION
Units 1 and 2

2014

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

BW	BiWeekly
C	Control
DEHNR	Department of Environmental Health and Natural Resources
EPA	Environmental Protection Agency
ERA	Environmental Resource Associates
GI-LLI	Gastrointestinal – Lower Large Intestine
GPS	Global Positioning System
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
M	Monthly
MDA	Minimum Detectable Activity
MNS	McGuire Nuclear Station
mrem	millirem
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m3	picocurie per cubic meter
PIP	Problem Investigation Program
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SLCs	Selected Licensee Commitments
SM	Semimonthly
TECH SPECs	Technical Specifications
TLD	Thermoluminescent Dosimeter
µCi/ml	microcurie per milliliter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the McGuire Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2014.

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

Sampling activities were conducted as prescribed by Selected Licensee Commitments (SLC's). Required analyses were performed and detection capabilities were met for all collected samples as required by SLC's. Eleven hundred fifty-five samples were analyzed comprising 1,246 test results in order to compile data for the 2014 report. Based on the annual land use census, the current number of sampling sites for McGuire Nuclear Station is sufficient.

Concentrations observed in the environment in 2014 for station related radionuclides were generally within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in surface water, drinking water, shoreline sediment and fish are higher than the activities reported for samples collected prior to the operation of the station. Measured concentrations were not higher than expected, and all positively identified measurements attributable to station operation were within limits as specified in SLC's.

Additionally, environmental radiological monitoring data is consistent with effluents introduced into the environment by plant operations. The total body dose estimated to the maximum exposed member of the public as calculated by environmental sampling data, excluding TLD results, was 9.71E-2 mrem for 2014. Background radiation dose in the United States is approximately 620 mrem per year (approximately half from naturally occurring sources such as radon and half from man-made sources such as medical processes).[1] It is therefore concluded that station operations has had no significant radiological impact on the health and safety of the public or the environment.

[1]NCRP (2009). National Council on Radiation Protection and Measurements. *Ionizing Radiation Exposure of the Population of the United States*, NCRP Report No. 160 (National Council on Radiation Protection and Measurements, Bethesda, Maryland).

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

McGuire Nuclear Station (MNS) is located geographically near the center of a highly industrialized region of the Carolinas. The land is predominantly rural non-farm with a small amount of land being used for farming. The McGuire site is in northwestern Mecklenburg County, North Carolina, 17 miles north-northwest of Charlotte, North Carolina. The site is bounded to the west by the Catawba River channel and to the north by 32,510 acre Lake Norman. Lake Norman is impounded by Duke Energy Corporation's Cowans Ford Dam Hydroelectric Station. The tailwater of Cowans Ford Dam is the upper limit of Mountain Island Reservoir. Mountain Island Dam is located 15 miles downstream from the site. Lookout Shoals Hydroelectric Station is at the upper reaches of Lake Norman. Marshall Steam Station is located on the western shore of Lake Norman, approximately 16 miles upstream from the site.

MNS consists of two pressurized water reactors. Each reactor unit is essentially a mirror image of the other joined by an auxiliary building housing both separate and common equipment. Each unit was designed to produce approximately 1200 gross Megawatts of electricity. Unit 1 achieved criticality August 8, 1981 and Unit 2 on May 8, 1983.

Figures 2.1-1 and 2.1-2 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within 0.5 mile radius of MNS. Figure 2.1-2 comprises all sample locations within a ten mile radius of MNS.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at McGuire Nuclear Station since 1977, four years prior to operation of Unit 1 in 1981. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other “man-made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from McGuire Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all

appropriate critical exposure pathways to man and protects vital interests of the company, public, and state and federal agencies concerned with the environment. Reporting levels for radioactivity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the Radiological Environmental Monitoring Program are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.10.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 5 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:

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

Where:

$\overline{x}$ = estimate of the mean,
i = individual sample,
N = total number of samples with a net activity (or concentration),
χ_i = net activity (or concentration) for sample i.

2.3.2 LOWER LEVEL OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Level of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the Environmental Monitoring Program.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* 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 Selected Licensee Commitments and are listed in Table 2.2-C.

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

2.3.3 TREND IDENTIFICATION

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

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Some factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the Chernobyl accident). 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

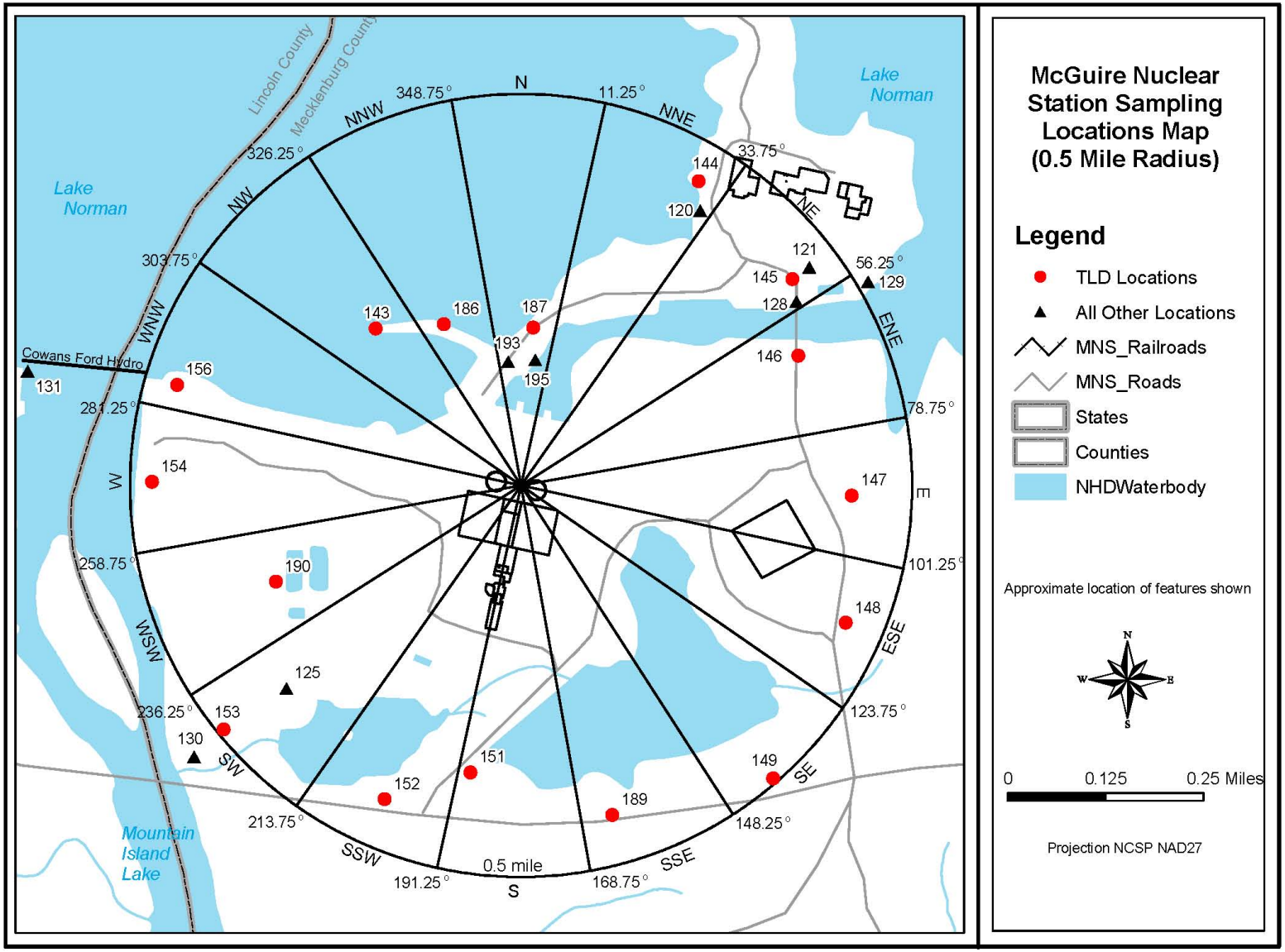
McGuire Nuclear Station Sampling Locations Map (0.5 Mile Radius)
Legend
TLD Locations
All Other Locations
MNS_Railroads
MNS_Roads
States
Counties
NHDWaterbody
Approximate location of features shown
N
W
E
S
0
0.125
0.25 Miles
Projection NCSP NAD27
Lake Norman
Lincoln County
Mecklenburg County
Cowans Ford Hydro
Mountain Island Lake
0.5 mile
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
11.25°
33.75°
56.25°
78.75°
101.25°
123.75°
148.25°
168.75°
191.25°
213.25°
236.25°
258.75°
281.25°
303.75°
326.25°
348.75°
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Figure 2.1-2

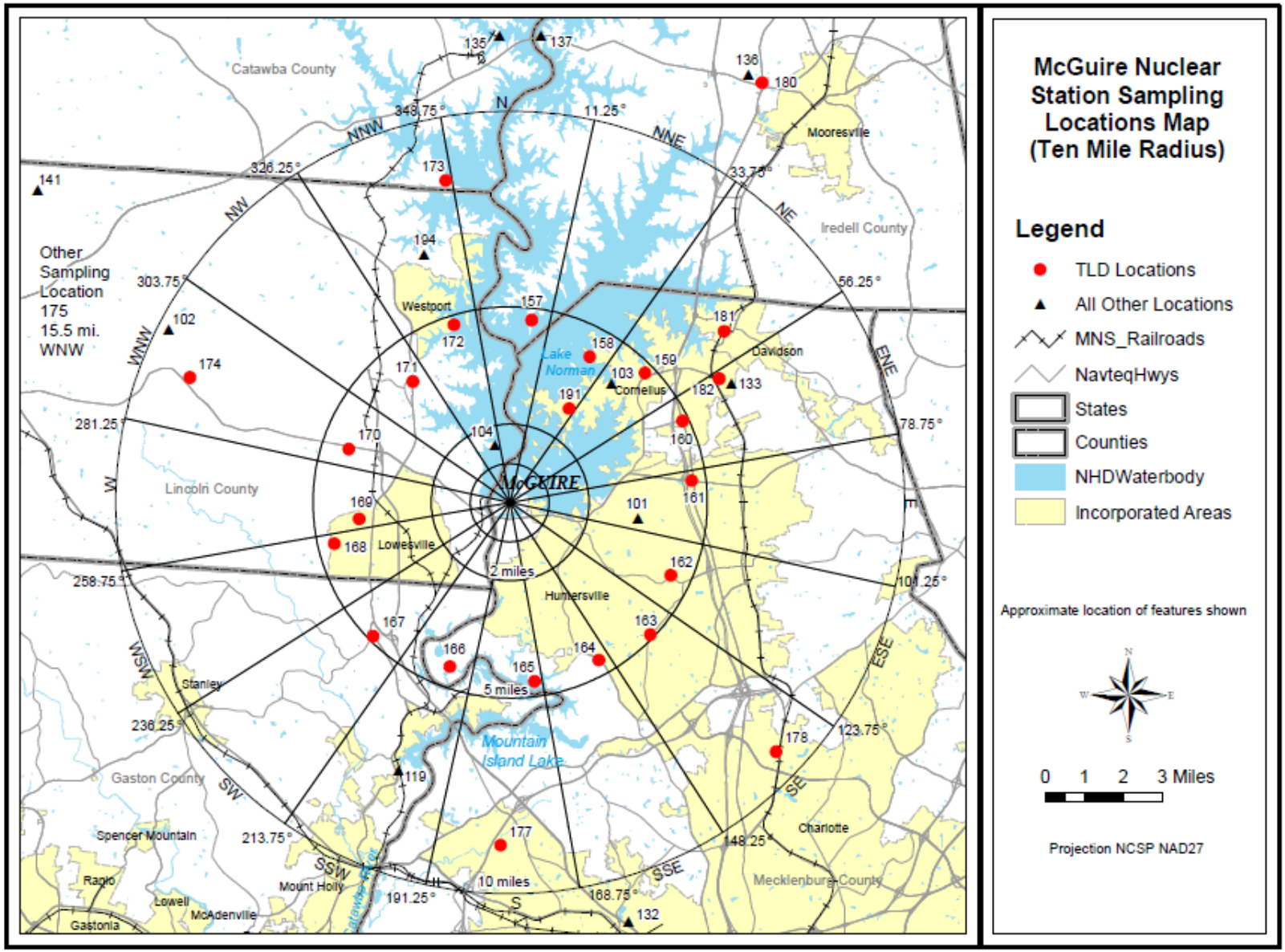

McGuire Nuclear Station Sampling Locations Map (Ten Mile Radius)
Legend
TLD Locations
All Other Locations
MNS_Railroads
NavteqHwys
States
Counties
NHDWaterbody
Incorporated Areas
Approximate location of features shown
0 1 2 3 Miles
Projection NCSP NAD27
Other Sampling Location 175 15.5 mi. WNW
McGUIRE
2 miles
5 miles
10 miles
Catawba County
Lincoln County
Gaston County
Iredell County
Mecklenburg County
Mooresville
Davidson
Cornelius
Westport
Lake Norman
Lowesville
Huntersville
Stanley
Mountain Island Lake
Spencer Mountain
Mount Holly
Lowell
McAdenville
Gastonia
Charlotte
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW

TABLE 2.1-A

MCGUIRE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS

Table 2.1-A Codes			
W	Weekly	SM	Semimonthly
BW	BiWeekly	Q	Quarterly
M	Monthly	SA	Semiannually
C	Control	I	Indicator

Site #	Measure Type	Location Description*	Air Rad. & Part.	Surface Water	Drinking Water	Shoreline Sediment	Food Products	Fish	Milk	Broad Leaf Veg.
101	I	North Mecklenburg Water Treatment Facility (3.31 mi E)			M					
102	C	Amity Church Road (9.89 mi WNW)	W							M (b)
103	I	Cottonwood Substation (4.20 mi NE)	W							
104	I	5 mile radius Gardens (1.52 mi NNW)					M (a)			
119	I	Mt. Holly Municipal Water Supply (7.40 mi SSW)			M					
120	I	Site Boundary (0.46 mi NNE)	W							M (b)
121	I	Site Boundary (0.47 mi NE)	W							
125	I	Site Boundary (0.38 mi SW)	W							M (b)
128	I	Discharge Canal Bridge (0.45 mi NE)		M						
129	I	Discharge Canal Entrance to Lake Norman (0.51 mi ENE)				SA		SA		
130	I	Hwy 73 Bridge Downstream (0.52 mi SW)				SA				
131	I	Cowans Ford Dam (0.64 mi WNW)		M						
132	I	Charlotte Municipal Water Supply (11.1 mi SSE)			M					
133	I	Cornelius (6.23 mi ENE)	W							
135	C	Plant Marshall Intake Canal (11.9 mi N)		M						
136	C	Mooresville Municipal Water Supply (12.7 mi NNE)			M					
137	C	Pinnacle Access Area (12.0 mi N)				SA		SA		
141	C	Lynch Dairy-Cows (14.8 mi WNW)							SM	
188	I	5 mile radius Gardens (2.79 mi NNE)					M (a)			
193	I	Site Boundary (0.19 mi N)								M (b)
194	I	East Lincoln County Water Supply (6.73 mi NNW)			M					
195	I	Fishing Access Road (0.19 mi N)	W							

(a) During Harvest Season
(b) When Available

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

TABLE 2.1-B

MCGUIRE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS (TLD SITES)

Table 2.1-B Codes			
IR	Inner Ring	OR	Outer Ring
C	Control	SI	Special Interest

Site #	Measure Type	Location	Distance* (miles)	Sector	Site #	Measure Type	Location	Distance* (miles)	Sector
143	IR	SITE BOUNDARY	0.27	NW	164	OR	HAMBRIGHT & BEATTIES FORD ROAD	4.64	SSE
144	IR	SITE BOUNDARY	0.46	NNE	165	OR	ARTHER AUTEN ROAD	4.57	S
145	IR	SITE BOUNDARY	0.47	NE	166	OR	NECK ROAD REFUGE BOUNDARY	4.44	SSW
146	IR	SITE BOUNDARY	0.42	ENE	167	OR	LUCIA RIVERBEND HWY/OLD FIREHOUSE	4.87	SW
147	IR	SITE BOUNDARY	0.44	E	168	OR	OLD PLANK ROAD BRIDGE	4.60	WSW
148	IR	SITE BOUNDARY	0.46	ESE	169	OR	GLOVER LANE	4.03	W
149	IR	SITE BOUNDARY	0.50	SE	170	OR	LITTLE EGYPT ROAD	4.32	WNW
151	IR	SITE BOUNDARY	0.37	S	171	OR	TRIANGLE ACE HARDWARE	3.95	NW
152	IR	SITE BOUNDARY	0.44	SSW	172	OR	LAKESHORE S RD ISLAND VIEW COURT	4.69	NNW
153	IR	SITE BOUNDARY	0.47	SW	173	SI	KEISTLER STORE / GLENWOOD ROAD	8.39	NNW
154	IR	SITE BOUNDARY	0.45	W	174	SI	EAST LINCOLN JR. HIGH SCHOOL	8.85	WNW
156	IR	SITE BOUNDARY	0.44	WNW	175	C	BOGER CITY	15.5	WNW
189	IR	SITE BOUNDARY	0.43	SSE	177	SI	BELMARROW RD / COULWOOD	8.77	S
190	IR	SITE BOUNDARY	0.37	WSW	178	SI	FLORIDA STEEL CORPORATION	9.36	SE
157	IR	THE POINTE (MOORESVILLE)	4.69	N	180	SI	MOORESVILLE WATER TREATMENT FACILITY	12.7	NNE
158	OR	BETHEL CHURCH RD	4.33	NNE	181	SI	OLD DAVIDSON WATER FACILITY	7.02	NE
159	OR	HENDERSON ROAD	4.77	NE	182	SI	CORNELIUS AIR SITE # 133	6.23	ENE
160	OR	ANCHORAGE MARINE SHOWROOM	4.89	ENE	186	SI	MCGUIRE FISHING ACCESS ROAD	0.24	NNW
161	OR	SAM FURR ROAD & HWY 21	4.70	E	187	SI	ENERGY EXPLORIUM / AIR SITE # 195	0.19	N
162	OR	RANSON ROAD	4.53	ESE	191	SI	PENINSULA DEV. / JOHN CONNOR ROAD	2.84	NNE
163	OR	MCCOY ROAD	4.94	SE					

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

TABLE 2.2-A

REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m^3)	Fish (pCi/kg-wet)	Milk (pCi/liter)	BroadLeaf Vegetation (pCi/kg-wet)
H-3	20,000[(a),(b)]	---	---	---	---
Mn-54	1,000	---	30,000	---	---
Fe-59	400	---	10,000	---	---
Co-58	1,000	---	30,000	---	---
Co-60	300	---	10,000	---	---
Zn-65	300	---	20,000	---	---
Zr-Nb-95	400	---	---	---	---
I-131	2	0.9	---	3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200	---	---	300	---

(a) If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.
(b) H-3 Reporting level not applicable to surface water

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X	---	---	---	---
Air Particulate	Weekly	---	---	---	X	---
	Quarterly Composite	X	---	---	---	---
Direct Radiation	Quarterly	---	---	---	---	X
Surface Water	Monthly Composite	X	---	---	---	---
	Quarterly Composite	---	X	---	---	---
Drinking Water	Monthly Composite	X	---	(a)	X	---
	Quarterly Composite	---	X	---	---	---
Shoreline Sediment	Semiannually	X	---	---	---	---
Milk	Semimonthly	X	---	X	---	---
Fish	Semiannually	X	---	---	---	---
Broadleaf Vegetation	Monthly[(b)]	X	---	---	---	---
Food Products	Monthly[(b)]	X	---	---	---	---

(a) Low-level I-131 analysis will be performed if the dose calculated for the consumption of drinking water is > 1 mrem per year. An LLD of 1 pCi/liter will be required for this analysis.
(b) When Available

TABLE 2.2-C

MAXIMUM VALUES FOR THE LOWER LIMITS OF DETECTION

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m^3)	Fish (pCi/kg-wet)	Milk (pCi/liter)	BroadLeaf Vegetation (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01	---	---	---	---
H-3	2,000 [(a)]	---	---	---	---	---
Mn-54	15	---	130	---	---	---
Fe-59	30	---	260	---	---	---
Co-58, 60	15	---	130	---	---	---
Zn-65	30	---	260	---	---	---
Zr-Nb-95	15	---	---	---	---	---
I-131	1 [(b)]	0.07	---	1	60	---
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15	---	---	15	---	---

(a) If no drinking water pathway exists, a value of 3,000 pCi/liter may be used.
(b) If no drinking water pathway exists, the LLD of gamma isotopic analysis may be used.

3.0 INTERPRETATION OF RESULTS

Review of 2014 REMP analysis results was performed to detect and identify changes in environmental levels as a result of station operation. The radionuclides with Selected Licensee Commitments reporting levels that indicate consistent detectable activity have been historically trended from preoperation to present. Analyses from 1977 - 1978 have been excluded since these results were much higher than the other preoperational years due to outside influences such as weapons testing. The preoperational analyses from 1981 were combined with the operational analyses from the latter part of 1981 and averaged to give one concentration for each radionuclide for that year. Summary tables containing 2014 information required by Technical Specification Administrative Control 5.6.2 are located in Appendix B. McGuire 2014 REMP results are located in Appendix E.

The highest annual mean concentration of applicable Selected Licensee Commitments radionuclides from the indicator locations for each media type was used for trending purposes. Trending was performed by comparing annual mean concentrations to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's SLC reporting level (Table 2.2-A). All maximum percent of reporting level values attributable to MNS plant operation were well below the 100% action level. The highest value attributable to MNS plant operations during 2014 was 4.54% for drinking water tritium at the North Mecklenburg Water Treatment Facility (Location 101). Only Selected Licensee Commitments radionuclides were detected in 2014.

Changes in sample location, analytical technique, and presentation of results must be considered when reviewing for trends. Calculation of the annual mean concentrations has been performed differently over the history of the REMP. During 1979-1986, all net results (sample minus background) positive and negative, were included in the calculation of the mean. Only positive net activity results were used to calculate the mean for the other years. All negative values were replaced with a zero for calculational and graphical purposes to properly represent environmental conditions. A change in gamma spectroscopy analysis systems in 1987 ended a period when many measurements yielded detectable low-level activity for both indicator and control location samples. It is possible that the method the previous system used to estimate net activity may have been vulnerable to false-positive results.

This section includes tables and graphs containing the highest annual mean concentrations of any effluent related radionuclide detected since the change in analysis systems in 1987. Any zero concentrations used in tables or graphs represent activity measurements less than detectable levels. Only the specific radionuclides that represent the highest dose contributors or demonstrate consistent detectable activity are shown graphically.

Data presented in Sections 3.1 through 3.9 support the conclusion that there was no significant increase in radioactivity in the environment around McGuire Nuclear Station due to station operations in 2014. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2014 land use census data, shown in Section 3.10, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

In 2014, 364 radioiodine and particulate samples were analyzed, 312 from six indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

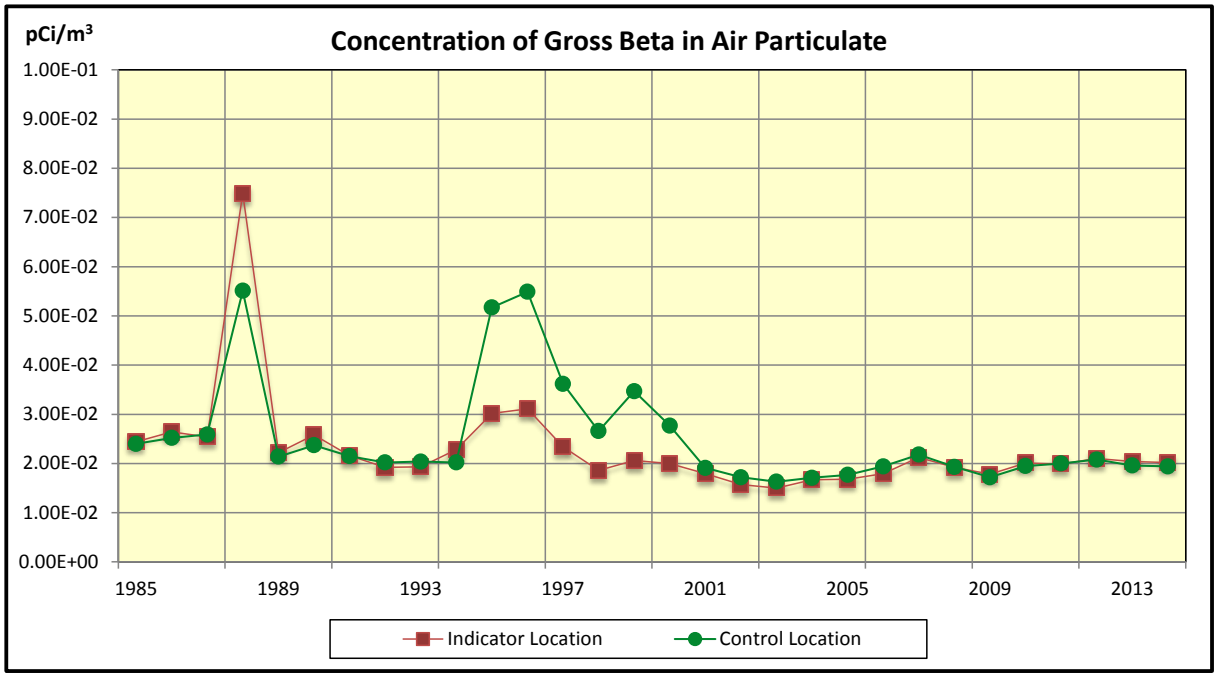
Gross beta analyses indicated 2.02E-2 pCi/m^3 at the location with the highest annual mean and 1.94E-2 pCi/m^3 at the control location. No gamma emitting radionuclide attributable to MNS plant operation has been detected in any air samples since 2004 when Co-58 was observed (G-04-00134).

Figure 3.1 shows gross beta highest annual mean indicator and control location concentrations since 1985. There is no reporting level for gross beta. Table 3.1-A shows indicator and control location highest annual means for Cs-137 and gross beta.

Table 3.1-B gives indicator location highest annual means and control means since 1979 for I-131. Preoperational and ten year averages are also shown. No I-131 activity due to MNS plant operation has been detected since 1989. Since no activity was detected in 2014, no reporting levels were approached.

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

Figure 3.1



There is no reporting level for Gross Beta in air particulate

Table 3.1-A Mean Concentrations of Radionuclides in Air Particulate

YEAR	Cs-137 Indicator (pCi/m^3)	Cs-137 Control (pCi/m^3)	Beta Indicator (pCi/m^3)	Beta Control (pCi/m^3)
1979*	4.40E-3	1.47E-3	Not Performed	Not Performed
1980*	6.70E-3	4.53E-3	Not Performed	Not Performed
1981*	6.16E-3	5.32E-3	Not Performed	Not Performed
1982*	3.82E-3	2.29E-3	Not Performed	Not Performed
1983*	2.93E-3	3.21E-3	Not Performed	Not Performed
1984	1.74E-3	8.29E-4	Not Performed	Not Performed
1985	1.86E-3	1.32E-3	2.44E-2	2.40E-2
1986	4.98E-3	3.03E-3	2.64E-2	2.52E-2
1987(1)	1.07E-2	7.91E-3	2.54E-2	2.59E-2
1988	0.00E0	0.00E0	7.49E-2	5.51E-2
1989	0.00E0	0.00E0	2.22E-2	2.14E-2
1990	0.00E0	0.00E0	2.58E-2	2.37E-2
1991	0.00E0	0.00E0	2.16E-2	2.15E-2
1992	0.00E0	0.00E0	1.92E-2	2.02E-2
1993	0.00E0	0.00E0	1.93E-2	2.04E-2
1994	0.00E0	0.00E0	2.28E-2	2.02E-2
1995	0.00E0	0.00E0	3.02E-2	5.17E-2
1996	0.00E0	0.00E0	3.11E-2	5.49E-2
1997	0.00E0	0.00E0	2.34E-2	3.62E-2
1998	0.00E0	0.00E0	1.86E-2	2.66E-2
1999	0.00E0	0.00E0	2.06E-2	3.47E-2
2000	0.00E0	0.00E0	2.00E-2	2.77E-2
2001	0.00E0	0.00E0	1.79E-2	1.91E-2
2002	0.00E0	0.00E0	1.57E-2	1.72E-2
2003	0.00E0	0.00E0	1.50E-2	1.63E-2
2004	0.00E0	0.00E0	1.67E-2	1.71E-2
2005	0.00E0	0.00E0	1.68E-2	1.77E-2
2006	0.00E0	0.00E0	1.79E-2	1.94E-2
2007	0.00E0	0.00E0	2.12E-2	2.18E-2
2008	0.00E0	0.00E0	1.92E-2	1.93E-2
2009	0.00E0	0.00E0	1.79E-2	1.76E-2
2010	0.00E0	0.00E0	2.01E-2	1.95E-2
2011	7.06E-3	0.00E0	1.99E-2	2.00E-2
2012	0.00E0	0.00E0	2.10E-2	2.08E-2
2013	0.00E0	0.00E0	2.04E-2	1.96E-2
Average (2004 – 2013)	Not Applicable	Not Applicable	1.91E-2	1.93E-2
2014(2)	0.00E0	0.00E0	2.02E-2	1.94E-2

0.00E0 indicates no detectable measurements
* Radioiodine and Particulates analyzed together
2011 concentration affected by Fukushima Daiichi
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

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

Year	Indicator Location (pCi/m^3)	Control Location (pCi/m^3)
1979*	3.28E-3	1.04E-3
1980*	2.01E-3	1.10E-3
1981*	4.17E-3	6.27E-4
1982*	1.42E-3	2.48E-3
1983*	1.99E-3	2.01E-4
1984	3.17E-3	0.00E0
1985	3.15E-3	1.04E-3
1986	1.27E-2	6.10E-3
1987(1)	1.07E-2	6.60E-3
1988	0.00E0	0.00E0
1989	2.18E-2	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	6.00E-2	5.46E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014(2)	0.00E0	0.00E0

0.00E0 indicates no detectable measurements
* Radioiodine and Particulate analyzed together.
2011 concentration affected by Fukushima Daiichi
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.2 DRINKING WATER

In 2014, 65 drinking water samples were analyzed for gross beta and gamma emitting radionuclides. Fifty-two samples were from the four indicator locations and 13 from the control location. Tritium (H-3) analyses were performed on 20 composite samples, 16 at indicator locations and four at the control location.

No detectable gamma activity attributable to MNS plant operation was found in drinking water samples in 2014 and has not been detected since 1987. K-40 observed in some drinking water samples is a naturally occurring radionuclide. Gross beta analyses indicated 2.18 pCi/l at the location with the highest annual mean and 1.95 pCi/l at the control location. Tritium was detected in 13 of the 16 indicator composite samples taken in 2014. The 2014 highest mean indicator tritium concentration from location 101 was 907 pCi/liter, which is 4.54% of the 20,000 pCi/l tritium reporting level. Tritium was not detected in any of the four control location samples. The dose for consumption of water was less than one mrem per year, historically and for 2014; therefore low-level iodine analysis is not required.

Figure 3.2 shows tritium highest annual mean indicator and control location concentrations with comparisons to 20% of the reporting level. Table 3.2 gives indicator location highest annual means and control means since 1979 for tritium and gross beta. There is no reporting level for gross beta.

Drinking water Location 101 was added to the sampling program in 1999. Figure 3.2 shows an increase beginning in that year. There was an increase in tritium releases in 2006 due to silica removal from the spent fuel pools which resulted in additional water volume being released from the plant. An extreme drought during the second half of 2007 and much of 2008 affecting the Catawba River Basin resulted in less dilution volume available in Lake Norman.

Figure 3.2

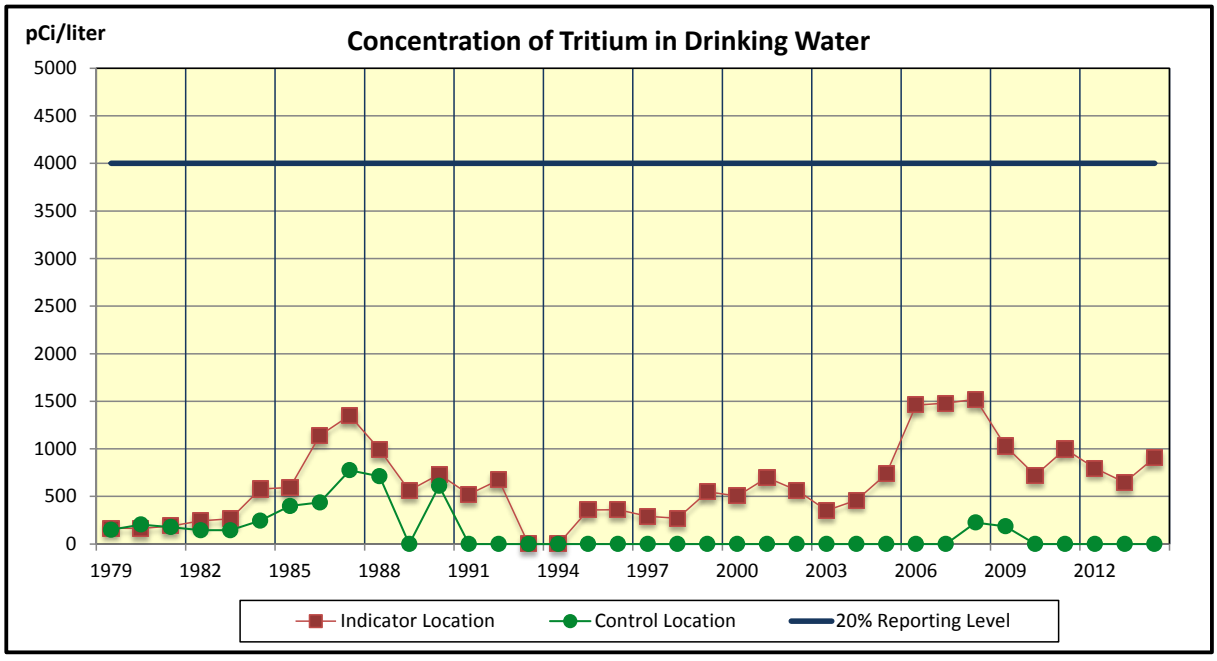


Table 3.2 Mean Concentrations of Radionuclides in Drinking Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1979	2.40E0	2.03E0	1.65E2	1.50E2
1980	2.34E0	1.87E0	1.63E2	2.05E2
1981	2.79E0	2.41E0	1.88E2	1.78E2
1982	2.62E0	2.43E0	2.43E2	1.45E2
1983	1.80E0	1.87E0	2.65E2	1.45E2
1984	2.78E0	1.81E0	5.77E2	2.45E2
1985	1.88E0	1.90E0	5.93E2	4.00E2
1986	2.13E0	2.15E0	1.14E3	4.37E2
1987	2.30E0	2.00E0	1.35E3	7.75E2
1988	2.00E0	2.00E0	9.92E2	7.11E2
1989	2.80E0	2.70E0	5.62E2	0.00E0
1990	3.70E0	4.30E0	7.32E2	6.11E2
1991	2.40E0	2.50E0	5.22E2	0.00E0
1992	2.00E0	1.70E0	6.73E2	0.00E0
1993	2.80E0	2.40E0	0.00E0	0.00E0
1994	2.47E0	2.90E0	0.00E0	0.00E0
1995	4.20E0	3.30E0	3.58E2	0.00E0
1996	2.75E0	2.11E0	3.60E2	0.00E0
1997	2.70E0	2.24E0	2.90E2	0.00E0
1998	2.75E0	2.33E0	2.68E2	0.00E0
1999	2.48E0	2.17E0	5.49E2	0.00E0
2000	2.66E0	1.99E0	5.04E2	0.00E0
2001	2.48E0	2.19E0	6.98E2	0.00E0
2002	2.47E0	2.08E0	5.64E2	0.00E0
2003	1.81E0	1.52E0	3.51E2	0.00E0
2004	1.68E0	1.29E0	4.61E2	0.00E0
2005	1.74E0	1.30E0	7.35E2	0.00E0
2006	1.75E0	1.80E0	1.46E3	0.00E0
2007	1.81E0	1.76E0	1.48E3	0.00E0
2008	2.40E0	1.87E0	1.52E3	2.26E2
2009	1.90E0	1.81E0	1.03E3	1.86E2
2010	1.85E0	1.74E0	7.20E2	0.00E0
2011	1.77E0	1.75E0	9.97E2	0.00E0
2012	1.74E0	1.66E0	7.95E2	0.00E0
2013	1.73E0	1.61E0	6.47E2	0.00E0
2014	2.18E0	1.95E0	9.07E2	0.00E0

0.00E0 indicates no detectable measurements

3.3 SURFACE WATER

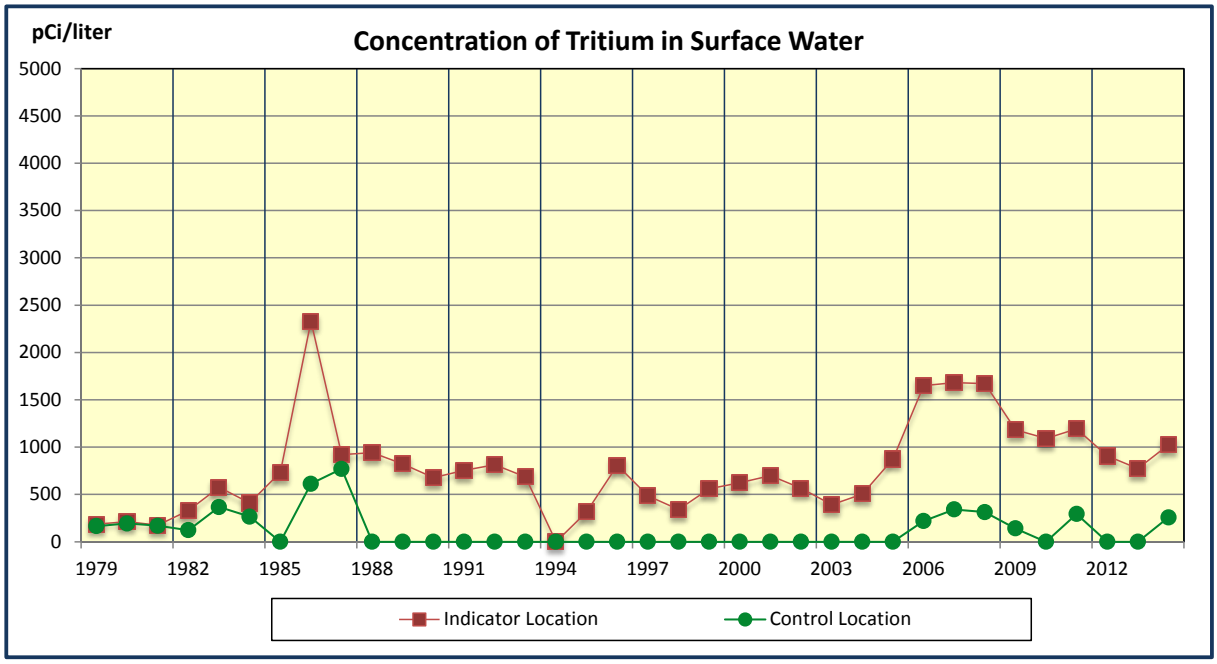
In 2014, 39 surface water samples were analyzed for gamma emitting radionuclides, 26 at the two indicator locations and 13 at the control location. Analyses for H-3 were performed on 12 samples, eight at indicator locations and four at the control location.

No detectable gamma activity attributable to MNS plant operation was found in surface water samples in 2014 and has not been detected since 1988. K-40 observed in some surface water samples is a naturally occurring radionuclide. Tritium was detected in all of the eight indicator composite samples taken in 2014. Tritium was detected in one of the four control location composite samples in 2014.

Figure 3.3 shows tritium highest annual mean indicator and control location concentrations. Table 3.3 gives indicator and control location highest annual means since 1979 for tritium.

There was an increase in surface water tritium in 2006 due to silica removal from the spent fuel pools which resulted in additional water volume being released from the plant. An extreme drought during the second half of 2007 and much of 2008 affecting the Catawba River Basin resulted in less dilution volume available in Lake Norman.

Figure 3.3



There is no reporting level for tritium in surface water

Table 3.3 Mean Concentrations of Tritium in Surface Water

YEAR	H-3 Indicator (pCi/l)	H-3 Control (pCi/l)
1979	1.85E2	1.66E2
1980	2.13E2	1.93E2
1981	1.75E2	1.70E2
1982	3.30E2	1.23E2
1983	5.75E2	3.67E2
1984	4.10E2	2.65E2
1985	7.33E2	0.00E0
1986	2.33E3	6.13E2
1987	9.20E2	7.70E2
1988	9.40E2	0.00E0
1989	8.22E2	0.00E0
1990	6.77E2	0.00E0
1991	7.53E2	0.00E0
1992	8.13E2	0.00E0
1993	6.85E2	0.00E0
1994	0.00E0	0.00E0
1995	3.15E2	0.00E0
1996	8.08E2	0.00E0
1997	4.85E2	0.00E0
1998	3.40E2	0.00E0
1999	5.60E2	0.00E0
2000	6.22E2	0.00E0
2001	6.98E2	0.00E0
2002	5.65E2	0.00E0
2003	3.91E2	0.00E0
2004	5.04E2	0.00E0
2005	8.74E2	0.00E0
2006	1.65E3	2.19E2
2007	1.68E3	3.42E2
2008	1.67E3	3.13E2
2009	1.18E3	1.41E2
2010	1.09E3	0.00E0
2011	1.19E3	2.94E2
2012	9.06E2	0.00E0
2013	7.73E2	0.00E0
2014	1.03E3	2.57E2

0.00E0 indicates no detectable measurements

3.4 MILK

In 2014, 26 milk samples from the control location were analyzed for low level I-131 and other gamma emitting radionuclides. No indicator dairies were sampled during 2014 and none were identified by the 2014 land use census.

There were no gamma emitting radionuclides due to MNS plant operations identified in milk samples in 2014. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1990 (excluding Fukushima Daiichi). Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period.

Table 3.4 gives indicator location highest annual means and control means since 1979 for Cs-137. Since no Cs-137 was detected in 2014, no reporting levels were approached.

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

Table 3.4 Mean Concentrations of Cs-137 in Milk

YEAR	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
1979	2.48E1	6.04E0
1980	1.72E1	4.13E0
1981	2.04E1	4.15E0
1982	1.21E1	5.20E0
1983	2.01E1	2.82E0
1984	1.48E1	2.56E0
1985	1.42E1	2.72E0
1986	3.74E0	3.45E0
1987[(1)]	5.20E0	8.60E0
1988	3.40E0	2.90E0
1989	6.00E0	5.60E0
1990	5.30E0	2.60E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0

Table 3.4 continued

YEAR	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	0.00E0	0.00E0
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014[(2)]	0.00E0	0.00E0

0.00E0 indicates no detectable measurements
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.5 BROADLEAF VEGETATION

In 2014, 48 broadleaf vegetation samples were analyzed, 36 at the three indicator locations and twelve at the control location. There were no gamma emitting radionuclides attributable to MNS plant operation identified in any vegetation samples in 2014.

Cs-137 is the only radionuclide, other than naturally occurring, reported in vegetation samples since the change in gamma spectroscopy analysis systems in 1987. No airborne Cs-137 has been released from the plant since 1998.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

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

Table 3.5 Mean Concentrations of Cs-137 in Broadleaf Vegetation

YEAR	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
1979	2.19E1	1.93E1
1980	2.30E1	1.92E1
1981	3.04E1	2.02E1
1982	2.46E1	1.22E1
1983	9.07E0	7.85E0
1984	1.02E1	1.05E1
1985	8.05E0	2.37E-2
1986	4.03E1	1.27E1
1987[1]	2.20E1	1.70E1
1988	3.90E1	3.40E1
1989	9.60E1	0.00E0
1990	4.00E1	0.00E0
1991	3.30E1	0.00E0
1992	4.90E1	0.00E0
1993	1.60E1	0.00E0
1994	0.00E0	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	2.69E1
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0

Table 3.5 continued

YEAR	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
2006	2.98E1	0.00E0
2007	1.34E1	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	2.29E1	0.00E0
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014[(2)]	0.00E0	0.00E0

0.00E0 indicates no detectable measurements
2011 concentration affected by Fukushima Daiichi
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.6 FOOD PRODUCTS

In 2014, 10 food products (crops) samples were analyzed from one indicator location. There is no control location for this media.

No detectable activity attributable to MNS station operation has been detected in this media since 1987. Table 3.6 shows Cs-137 indicator highest annual means with preoperational data. Since no activity was detected in 2014, no reporting levels were approached. K-40 and Be-7 observed in food product samples are naturally occurring radionuclides.

Table 3.6 Mean Concentrations of Cs-137 in Food Products

YEAR	Cs-137 Indicator (pCi/kg)
1979	2.19E1
1980	2.30E1
1981	3.04E1
1982	2.46E1
1983	9.07E0
1984	8.45E0
1985	7.99E0
1986	2.15E1
1987(1)	2.90E1
1988	0.00E0
1989	0.00E0
1990	0.00E0
1991	0.00E0
1992	0.00E0
1993	0.00E0
1994	0.00E0
1995	0.00E0
1996	0.00E0
1997	0.00E0
1998	0.00E0
1999	0.00E0
2000	0.00E0
2001	0.00E0
2002	0.00E0
2003	0.00E0
2004	0.00E0
2005	0.00E0
2006	0.00E0
2007	0.00E0
2008	0.00E0
2009	0.00E0
2010	0.00E0
2011	3.06E1
2012	0.00E0
2013	0.00E0
2014(2)	0.00E0

0.00E0 indicates no detectable measurements
2011 concentration affected by Fukushima Daiichi
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.7 FISH

In 2014, 12 fish samples were analyzed for gamma emitting radionuclides, six at the indicator location and six at the control location.

Cs-137 activity was detected in 2014 in two of the six indicator samples. Cs-137 was not detected in any of the six control samples taken.

Figure 3.7 shows Cs-137 highest annual mean indicator and control location concentrations with comparisons to 5% of the reporting level. Table 3.7 gives indicator location highest annual means since 1980 for all radionuclides detected since the analysis change in 1988. All other radionuclides not shown in the table have demonstrated no detectable activity since 1986.

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

Figure 3.7

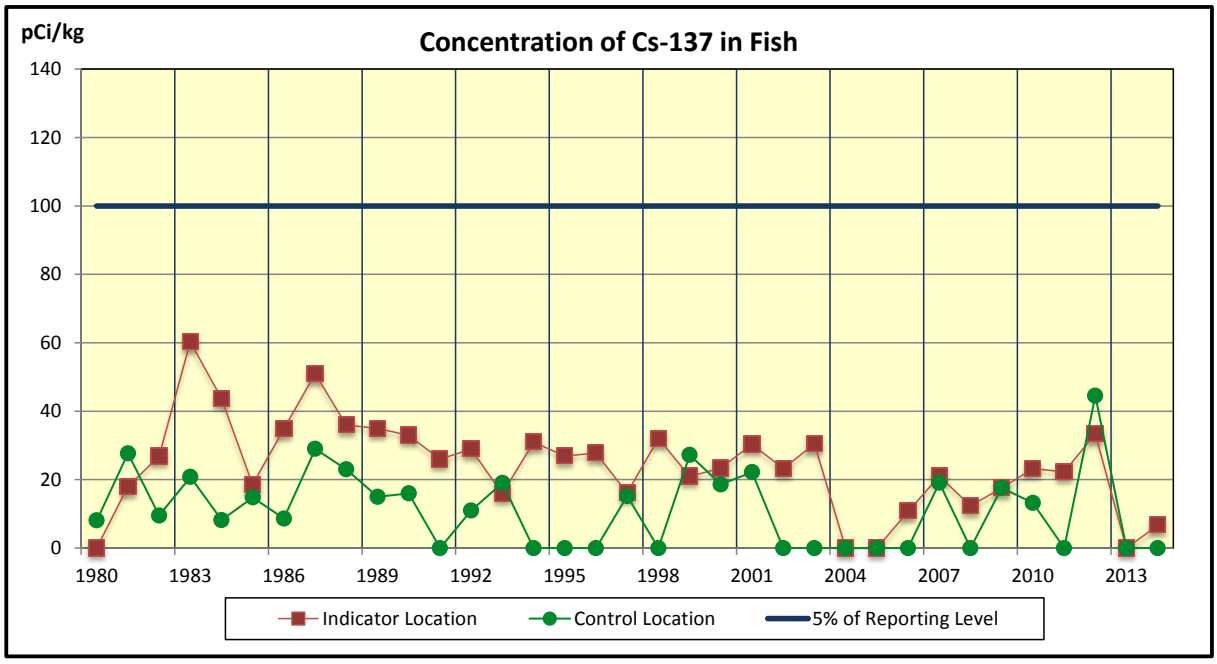


Table 3.7 Mean Concentrations of Radionuclides in Fish (pCi/kg)

YEAR	Mn-54 Indicator	Co-58 Indicator	Co-60 Indicator	Cs-134 Indicator	Cs-137 Indicator
1980	-1.97E1	8.36E0	-2.25E1	-2.70E1	-4.13E0
1981	-2.71E0	-2.98E0	-2.65E0	-1.99E0	1.80E1
1982	-3.83E0	8.16E0	-4.34E-1	-8.22E-1	2.69E1
1983	-2.60E0	2.60E1	1.11E1	-1.32E0	6.03E1
1984	3.61E0	1.45E2	2.82E1	3.11E1	4.38E1
1985	2.53E-1	7.19E0	1.72E1	-1.56E0	1.86E1
1986	1.03E0	3.17E1	2.96E1	1.67E1	3.49E1
1987(1)	0.00E0	2.71E2	1.25E2	2.60E1	5.10E1
1988	1.20E1	7.70E1	0.00E0	2.70E1	3.60E1
1989	9.00E1	4.05E2	2.99E2	1.10E1	3.50E1
1990	0.00E0	5.60E1	4.10E1	0.00E0	3.30E1
1991	6.20E0	1.40E1	6.50E1	5.90E0	2.60E1
1992	0.00E0	0.00E0	0.00E0	0.00E0	2.90E1
1993	0.00E0	8.20E1	1.30E1	0.00E0	1.60E1
1994	0.00E0	0.00E0	0.00E0	0.00E0	3.10E1
1995	0.00E0	0.00E0	0.00E0	0.00E0	2.70E1
1996	0.00E0	0.00E0	0.00E0	0.00E0	2.78E1
1997	0.00E0	0.00E0	0.00E0	0.00E0	1.62E1
1998	0.00E0	0.00E0	0.00E0	0.00E0	3.21E1
1999	0.00E0	3.53E1	0.00E0	0.00E0	2.10E1
2000	0.00E0	4.28E1	0.00E0	0.00E0	2.34E1
2001	0.00E0	1.32E1	0.00E0	0.00E0	3.04E1
2002	0.00E0	0.00E0	0.00E0	0.00E0	2.33E1
2003	0.00E0	0.00E0	0.00E0	0.00E0	3.05E1
2004	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2005	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	0.00E0	1.08E1
2007	0.00E0	0.00E0	0.00E0	0.00E0	2.11E1
2008	0.00E0	0.00E0	0.00E0	0.00E0	1.24E1
2009	0.00E0	0.00E0	0.00E0	0.00E0	1.76E1
2010	0.00E0	0.00E0	0.00E0	0.00E0	2.33E1
2011	0.00E0	0.00E0	0.00E0	0.00E0	2.23E1
2012	0.00E0	0.00E0	0.00E0	0.00E0	3.34E1
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
2014(2)	0.00E0	0.00E0	0.00E0	0.00E0	6.75E0

0.00E0 indicates no detectable measurements
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.8 SHORELINE SEDIMENT

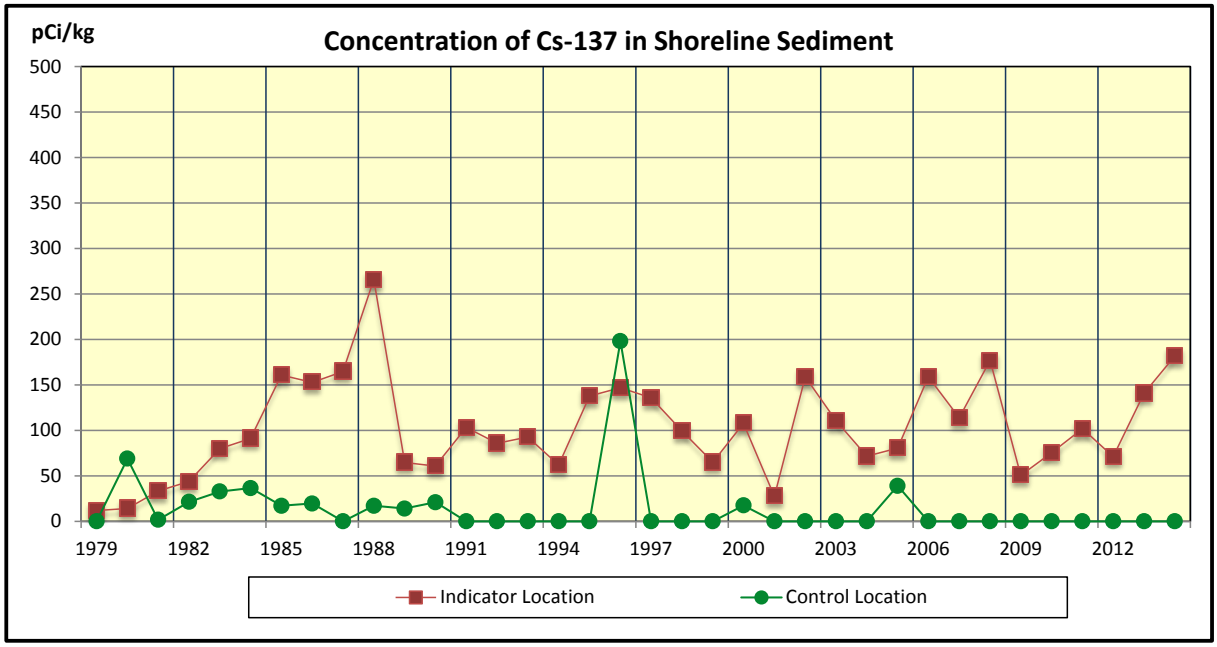
In 2014, six shoreline sediment samples were analyzed, four from two indicator locations and two at the control location.

Cs-137 activity was detected in two of the four indicator samples taken. The shoreline sediment location with the highest annual mean was location 130 with a mean concentration of 182 pCi/kg.

Figure 3.8 shows Cs-137 highest annual mean indicator and control location concentrations since 1979. Table 3.8 gives indicator location highest annual means since 1979 for all radionuclides detected since the analysis change in 1988. There is no reporting level for shoreline sediment.

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

Figure 3.8



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

Table 3.8 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

YEAR	Mn-54 Indicator	Co-58 Indicator	Co-60 Indicator	Cs-134 Indicator	Cs-137 Indicator
1979	-1.07E1	2.25E1	-6.50E0	0.00E0	1.20E1
1980	1.06E1	-8.74E0	2.36E1	-3.53E0	1.44E1
1981	2.13E1	1.20E1	8.21E0	3.97E1	3.36E1
1982	5.38E1	1.66E1	-1.69E0	7.67E1	4.40E1
1983	4.40E0	3.43E1	2.12E1	7.65E1	8.02E1
1984	1.19E1	7.11E1	3.04E1	3.34E1	9.13E1
1985	4.77E0	1.46E1	9.20E0	2.02E1	1.61E2
1986	1.37E1	1.02E1	1.16E1	6.35E1	1.53E2
1987(1)	0.00E0	1.06E2	2.10E1	4.20E1	1.65E2
1988	6.50E0	9.20E1	1.20E1	9.10E0	2.66E2
1989	2.90E1	3.80E1	2.90E1	5.30E1	6.50E1
1990	3.80E1	2.70E1	1.68E2	0.00E0	6.10E1
1991	2.80E1	5.30E1	1.31E2	0.00E0	1.03E2
1992	9.40E0	0.00E0	5.10E1	9.20E0	8.60E1
1993	0.00E0	2.20E1	8.60E1	0.00E0	9.30E1
1994	4.10E1	0.00E0	0.00E0	0.00E0	8.00E1
1995	1.70E1	0.00E0	2.30E1	0.00E0	1.38E2
1996	2.90E1	1.78E1	3.50E1	0.00E0	1.47E2
1997	0.00E0	0.00E0	1.11E2	3.10E1	1.36E2
1998	0.00E0	0.00E0	5.21E1	0.00E0	9.97E1
1999	0.00E0	2.47E1	8.49E1	0.00E0	6.51E1
2000	0.00E0	3.04E1	0.00E0	0.00E0	1.08E2
2001	0.00E0	0.00E0	0.00E0	0.00E0	2.77E1
2002	2.24E1	0.00E0	0.00E0	0.00E0	1.59E2
2003	0.00E0	0.00E0	0.00E0	0.00E0	1.11E2
2004	0.00E0	0.00E0	0.00E0	0.00E0	7.17E1
2005	0.00E0	0.00E0	0.00E0	0.00E0	8.08E1
2006	0.00E0	0.00E0	0.00E0	0.00E0	1.59E2
2007	0.00E0	0.00E0	0.00E0	0.00E0	1.14E2
2008	0.00E0	0.00E0	0.00E0	0.00E0	1.77E2
2009	0.00E0	0.00E0	0.00E0	0.00E0	5.08E1
2010	0.00E0	0.00E0	0.00E0	0.00E0	7.58E1
2011	0.00E0	0.00E0	0.00E0	0.00E0	1.02E2
2012	0.00E0	0.00E0	0.00E0	0.00E0	7.13E1
2013	0.00E0	0.00E0	0.00E0	0.00E0	1.41E2
2014(2)	0.00E0	0.00E0	0.00E0	0.00E0	1.82E2

0.00E0 indicates no detectable measurements
(1) 1987 – Gamma spectroscopy system change
(2) 2014 – Gamma spectroscopy system change

3.9 DIRECT GAMMA RADIATION

3.9.1 ENVIRONMENTAL TLD

McGuire is licensed with an exclusion area boundary defined by UFSAR Section 2.1.2.1 as a 2500 foot radius from station center. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. TLD locations designated as "inner ring" are within a 0.5 mile radius from station center and all are used as indicators. Due to close proximity with McGuire, and most being within the exclusion area boundary, inner ring TLD locations are not good indicators of radiation exposure to a member of the public, but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. TLD locations designated as "outer ring" are outside the 0.5 mile "inner ring" but within a 5 mile radius of station center. All outer ring TLD locations are used as indicators. A subset of TLD locations are designated as "special interest". The nearest "special interest" locations are within the Owner Control Area approximately 0.2 miles from station center. They are located near public access areas for fishing and the Energy Explorium. The remaining "special interest" locations are within a 3 to 13 mile radius from station center. The one "control" location is greater than 15 miles from station center. This location was chosen to reduce the probability of influence from McGuire operation on data. The control location is not used as background subtraction in the TLD analysis. Its purpose is to provide a comparison to indicator locations.

In 2014, 161 total TLDs were analyzed, 157 at indicator locations and 4 at control locations. TLDs are collected and analyzed quarterly. Transit and laboratory background dose is determined and subtracted from gross field readings as required by ANSI N545-1975. The highest annual total dose was 98.7 mrem at indicator location 180, 12.7 miles NNE of station center. Figure 3.9 and Table 3.9 show TLD inner ring, outer ring, and control location annual averages in mrem per year. Data is provided from 1979 to show preoperational values. As shown in the graph, doses measured by environmental TLDs show little or no change since the current TLD system was implemented. As shown in the graph, historical inner and outer ring averages compare similarly, while control data is somewhat higher. This is most likely an artifact of the underlying geologic structures at the control location. Comparing data from the 2014 McGuire Annual Radiological Effluent Release Report (ARERR), dose to a member of the public resulting from gaseous effluent releases at McGuire is a small fraction of measured TLD dose. Therefore, it can be concluded that gaseous effluents from McGuire had negligible impact on measured TLD values.

Starting in 2014, enhanced analytical methods were implemented. Quarterly and annual baseline dose was determined using appropriate statistical methods considering data from 2000 through 2012. Quarterly and annual dose for 2014 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. No TLD location exceeded the Quarterly or Annual Investigation Level in 2014, therefor no evaluation of dose to a member of the public from direct or scattered radiation was performed. Table 3.9-B summarizes the data.

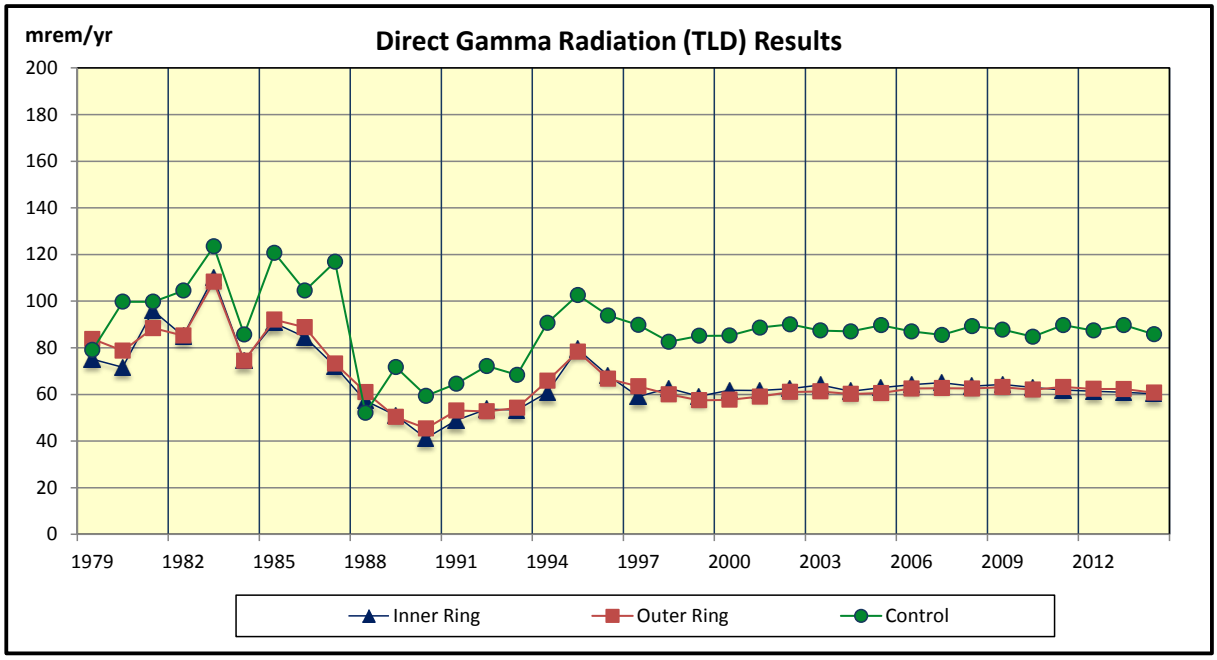
A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 5.10.

3.9.2 ISFSI

The McGuire ISFSI began operation in 2000. It is located approximately 0.15 miles west of station center in a secured area specifically constructed to provide dry storage for spent nuclear fuel. The ISFSI is situated at a lower elevation compared to other structures in the protected area. Exposure from direct radiation north of the ISFSI is shielded by the berm on the south boundary of Lake Norman. Exposure from direct radiation at the exclusion area boundary west of the ISFSI is shielded by the decrease in elevation at the ISFSI to the river bank below Cowan's Ford Dam. These geographic features lessen the potential dose to a member of the public in accessible areas within the exclusion area boundary. The ISFSI employs the multiple vertical storage designs. Irradiated fuel assemblies are confined, protected, and shielded by reinforced concrete modules. All designs used are completely passive and designed to provide radiation shielding and safe confinement for a range of accident conditions and natural events. They each use a passive natural circulation ventilation system to remove decay heat from the modules. No radiological liquid or gaseous effluents are expected from the passive storage provided by the ISFSI. Therefore any dose to offsite locations would be from direct and scattered gamma radiation.

Environmental TLD results described in 3.9.1 above are reviewed quarterly to identify trends and demonstrate compliance with dose and dose rate limits at the 2500 foot exclusion area boundary. Additional TLD locations not associated with REMP are presently located on the McGuire protected area fence near the ISFSI and on the ISFSI boundary. These are used to demonstrate compliance with occupational exposure controls and augment REMP TLD results. Doses measured by environmental TLDs show little or no change since the ISFSI began operation.

Figure 3.9



There is no reporting level for Direct Radiation (TLD)

*AREOR 2014, results converted from mR/yr to mrem/yr (n * 0.95)*

Table 3.9-A Direct Gamma Radiation (TLD) Results[1]

YEAR	Inner Ring Average (mrem/yr)	Outer Ring Average (mrem/yr)	Control (mrem/yr)
1979	7.51E1	8.38E1	7.90E1
1980	7.16E1†	7.88E1†	9.98E1†
1981	9.60E1	8.84E1	9.98E1
1982	8.50E1	8.52E1	1.05E2
1983	1.10E2	1.08E2	1.24E2
1984	7.46E1	7.44E1	8.57E1
1985	9.06E1	9.21E1	1.21E2
1986	8.46E1	8.88E1	1.05E2
1987	7.20E1	7.32E1	1.17E2
1988	5.73E1	6.10E1	5.21E1
1989	5.10E1	5.04E1	7.17E1
1990	4.12E1	4.54E1	5.94E1
1991	4.88E1	5.31E1	6.46E1
1992	5.37E1	5.27E1	7.22E1
1993	5.33E1	5.42E1	6.84E1
1994	6.08E1	6.58E1	9.07E1
1995	7.94E1	7.84E1	1.03E2
1996	6.82E1	6.67E1	9.39E1
1997	5.91E1	6.35E1	8.98E1
1998	6.26E1	6.00E1	8.26E1
1999	5.92E1	5.75E1	8.51E1
2000	6.18E1	5.77E1	8.52E1
2001	6.16E1	5.91E1	8.86E1
2002	6.24E1	6.11E1	9.01E1
2003	6.41E1	6.13E1	8.74E1
2004	6.14E1	6.02E1	8.70E1
2005	6.29E1	6.06E1	8.97E1
2006	6.41E1	6.25E1	8.70E1
2007	6.50E1	6.27E1	8.55E1
2008	6.36E1	6.25E1	8.93E1
2009	6.43E1	6.31E1	8.78E1
2010	6.30E1	6.20E1	8.47E1
2011	6.18E1	6.32E1	8.97E1
2012	6.13E1	6.24E1	8.74E1
2013	6.09E1	6.23E1	8.97E1
2014	6.03E1	6.08E1	8.57E1

† Values are based on two quarters due to change in TLD locations.

(1) 2014 AREOR, tabular results converted from mR/yr to mrem/yr (n * 0.95)

Table 3.9-B Direct Gamma Radiation (TLD) McGuire 2014 Investigation Level

McGuire 2014 MDD_Q: 6	McGuire 2014 MDD_A: 11

	Quarterly (mrem)									Annual(mrem)		
Location	**B_Q**	**M_QQ1**	**M_QQ2**	**M_QQ3**	**M_QQ4**	**L_QQ1**	**L_QQ2**	**L_QQ3**	**L_QQ4**	**B_A**	**M_A***	**L_A**
143	15.9	15.8	13.9	14.7	16.4	ND	ND	ND	ND	65.0	60.8	ND
144	14.3	16.7	15.7	13.9	14.7	ND	ND	ND	ND	57.5	61.0	ND
145	14.5	17.8	12.7	13.9	16.5	ND	ND	ND	ND	58.5	60.9	ND
146	13.6	14.0	11.3	12.7	14.3	ND	ND	ND	ND	54.9	52.3	ND
147	14.4	17.1	13.8	14.2	16.0	ND	ND	ND	ND	57.7	61.0	ND
148	12.6	13.7	10.7	12.7	13.1	ND	ND	ND	ND	51.2	50.3	ND
149	12.1	13.2	11.0	11.4	10.5	ND	ND	ND	ND	48.7	46.2	ND
151	14.6	15.2	11.5	14.3	14.1	ND	ND	ND	ND	59.2	55.0	ND
152	14.1	12.6	12.6	13.5	13.1	ND	ND	ND	ND	56.9	51.9	ND
153	18.7	18.4	15.8	17.3	19.7	ND	ND	ND	ND	75.0	71.2	ND
154	20.7	23.5	15.9	17.6	21.7	ND	ND	ND	ND	82.8	78.6	ND
156	16.3	17.1	17.2	13.9	18.9	ND	ND	ND	ND	68.3	67.1	ND
157-P	14.8	15.1	13.7	16.0	13.7	ND	ND	ND	ND	60.3	58.4	ND
157-S	17.2	14.7	14.0	14.3	14.7	ND	ND	ND	ND	61.9	57.7	ND
158	14.2	15.3	12.0	13.5	13.5	ND	ND	ND	ND	57.8	54.2	ND
159	20.7	22.9	---	---	14.8	ND	ND	ND	ND	86.0	75.4	ND
160	16.1	16.2	13.9	14.7	17.2	ND	ND	ND	ND	65.4	62.0	ND
161	15.3	16.2	12.8	15.7	14.2	ND	ND	ND	ND	62.1	58.8	ND
162	11.4	11.5	9.8	10.5	11.4	ND	ND	ND	ND	45.8	43.2	ND
163-P	10.9	13.9	9.9	9.7	10.5	ND	ND	ND	ND	44.4	44.0	ND
164	10.9	10.9	9.7	10.6	12.1	ND	ND	ND	ND	43.7	43.3	ND
165	18.3	20.1	16.3	16.8	19.3	ND	ND	ND	ND	74.5	72.6	ND
166-P	17.1	18.1	15.1	15.9	17.2	ND	ND	ND	ND	68.4	66.3	ND
166-S	17.0	17.8	14.3	16.1	18.7	ND	ND	ND	ND	70.9	66.9	ND
167	18.3	21.4	15.8	18.7	19.3	ND	ND	ND	ND	73.2	75.1	ND
168-P	15.3	17.0	13.7	14.9	17.4	ND	ND	ND	ND	59.9	63.0	ND
168-S	16.9	18.3	13.3	17.2	15.5	ND	ND	ND	ND	68.0	64.3	ND
169	13.7	13.9	13.3	12.4	13.6	ND	ND	ND	ND	55.4	53.2	ND
170	20.2	20.2	16.6	19.5	19.2	ND	ND	ND	ND	80.5	75.5	ND
171	15.9	17.9	14.6	16.1	---	ND	ND	ND	ND	63.9	64.7	ND
172	15.2	18.0	12.5	13.4	14.9	ND	ND	ND	ND	62.9	58.8	ND
173	23.6	23.8	23.9	22.2	19.5	ND	ND	ND	ND	94.4	89.4	ND
174	21.4	24.0	20.0	21.9	21.5	ND	ND	ND	ND	87.5	87.4	ND
175	21.9	21.2	20.8	21.9	21.9	ND	ND	ND	ND	87.6	85.9	ND
177	13.3	13.7	11.1	14.3	13.1	ND	ND	ND	ND	53.2	52.2	ND
178-P	14.1	15.9	11.1	15.3	14.2	ND	ND	ND	ND	56.5	56.4	ND
178-S	15.7	16.4	12.2	15.7	14.3	ND	ND	ND	ND	62.7	58.6	ND
180	25.5	25.2	21.3	24.7	27.6	ND	ND	ND	ND	102.0	98.7	ND
181-P	15.7	17.0	13.4	14.6	15.7	ND	ND	ND	ND	63.7	60.7	ND
181-S	15.9	19.6	13.3	14.4	14.7	ND	ND	ND	ND	65.6	62.0	ND
182	15.6	14.3	12.4	16.0	18.4	ND	ND	ND	ND	62.3	61.0	ND
186	16.5	16.2	14.2	17.2	15.4	ND	ND	ND	ND	66.6	63.0	ND
187	16.6	20.2	12.9	18.2	14.7	ND	ND	ND	ND	68.0	66.1	ND
189	15.2	14.9	13.4	14.1	14.2	ND	ND	ND	ND	60.5	56.5	ND
190	19.5	18.2	17.0	18.1	18.2	ND	ND	ND	ND	78.0	71.5	ND
191	15.9	16.7	14.3	14.2	15.3	ND	ND	ND	ND	63.1	60.4	ND

* M_A determined by normalizing available quarterly data to 4 full quarters

Table 3.9-B definition of terms

- MDD_Q = minimum differential dose, quarterly, 3 times 90^{th} percentile s_Q determined from analysis in mrem
- MDD_A = minimum differential dose, annual, 3 times 90^{th} percentile s_A determined from analysis in mrem
- B_Q = Quarterly baseline (mrem)
- M_Q = location's 91 day standard quarter normalized dose (mrem per standard quarter)
- L_Q = quarterly investigation level dose (mrem)
- B_A = baseline background dose (mrem) (annual)
- M_A = annual monitoring data - Ma determined by normalizing available quarterly data to 4 full quarters
- L_A = annual investigation level dose (mrem)
- ND = not detected

3.10 LAND USE CENSUS

The land use census was conducted 6/11– 6/12/2014 as required by SLC 16.11.14. Table 3.10 summarizes census results. A map indicating identified locations is shown in Figure 3.10.

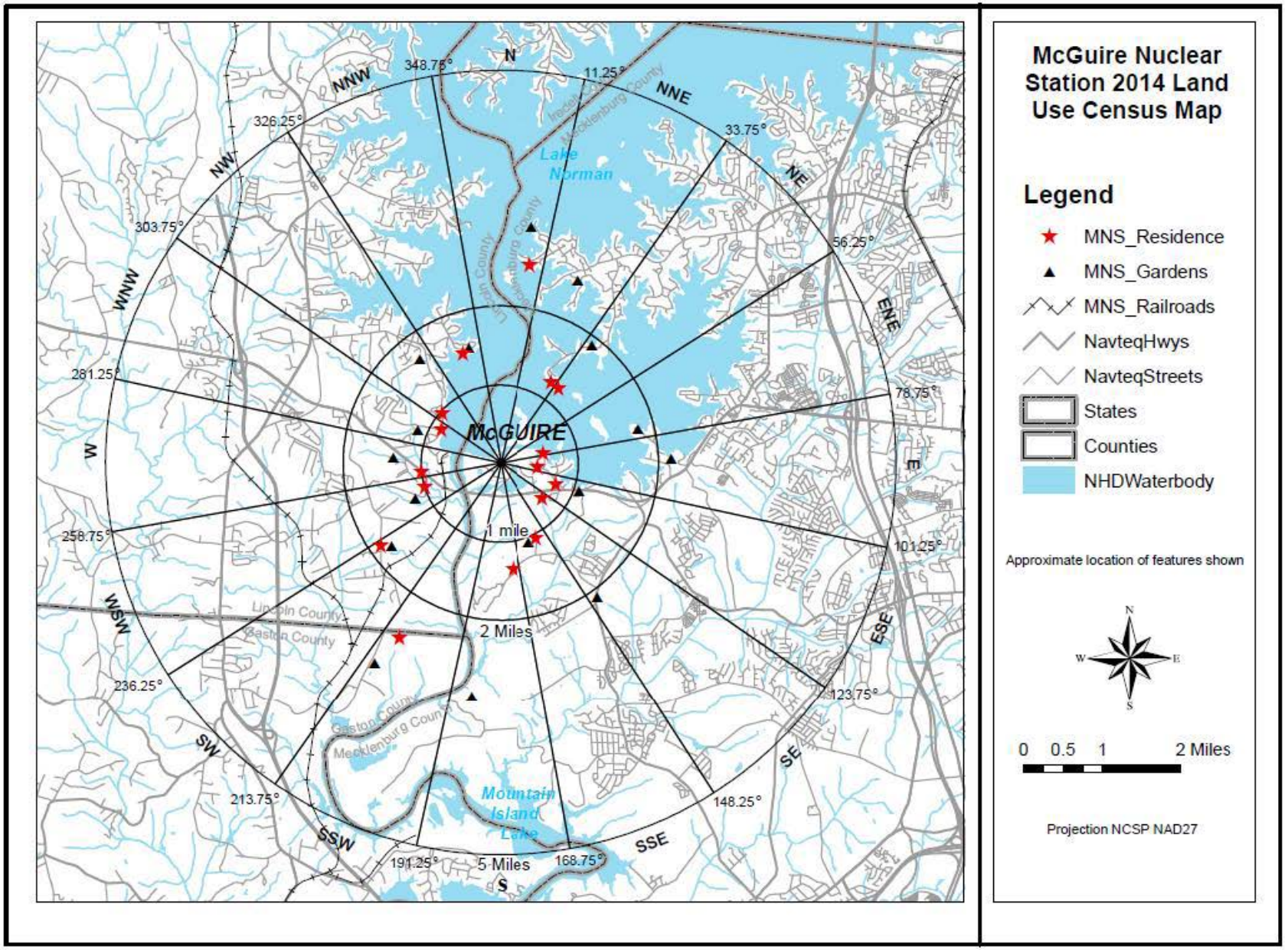
During the 2014 census, no new residences (nearer to the plant), irrigated gardens (superior to existing gardens) or milk locations were identified. The nearest residence is located in the East sector at 0.48 miles. No environmental program changes were required as a result of the 2014 land use census.

Table 3.10 McGuire 2014 Land Use Census Results

Sector		Distance (Miles)	Sector		Distance (Miles)
N	Nearest Residence	2.53	S	Nearest Residence	1.35
	Nearest Garden (irrigated)	3.03		Nearest Garden	3.14
	Nearest Milk Animal	-		Nearest Milk Animal	-
NNE	Nearest Residence	1.23	SSW	Nearest Residence	2.56
	Nearest Garden	2.53		Nearest Garden	2.94
	Nearest Milk Animal	-		Nearest Milk Animal	-
NE	Nearest Residence	1.21	SW	Nearest Residence	1.85
	Nearest Garden	1.80		Nearest Garden	1.88
	Nearest Milk Animal	-		Nearest Milk Animal	-
ENE	Nearest Residence	0.56	WSW	Nearest Residence	1.01
	Nearest Garden	1.98		Nearest Garden	1.10
	Nearest Milk Animal	-		Nearest Milk Animal	-
E	Nearest Residence	0.48	W	Nearest Residence	1.15
	Nearest Garden	2.11		Nearest Garden	1.23
	Nearest Milk Animal	-		Nearest Milk Animal	-
ESE	Nearest Residence	0.65	WNW	Nearest Residence	0.88
	Nearest Garden	1.06		Nearest Garden	1.15
	Nearest Milk Animal	-		Nearest Milk Animal	-
SE	Nearest Residence	0.67	NW	Nearest Residence	0.95
	Nearest Garden	2.10		Nearest Garden	1.68
	Nearest Milk Animal	-		Nearest Milk Animal	-
SSE	Nearest Residence	1.06	NNW	Nearest Residence	1.48
	Nearest Garden	1.06		Nearest Garden (irrigated)	1.52
	Nearest Milk Animal	-		Nearest Milk Animal	-

"-" indicates no occurrences within the 5 mile radius

Figure 3.10


McGuire Nuclear Station 2014 Land Use Census Map
Legend
MNS_Residence
MNS_Gardens
MNS_Railroads
NavteqHwys
NavteqStreets
States
Counties
NHDWaterbody
Approximate location of features shown
0 0.5 1 2 Miles
Projection NCSP NAD27
McGUIRE
1 mile
2 Miles
5 Miles
Lake Norman
Mountain Island Lake
Lincoln County
Gaston County
Mecklenburg County
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
348.75°
11.25°
33.75°
56.25°
78.75°
101.25°
123.75°
148.25°
168.75°
191.25°
213.75°
236.25°
258.75°
281.25°
303.75°
326.25°

4.0 EVALUATION OF DOSE

4.1 DOSE FROM ENVIRONMENTAL MEASUREMENTS

Annual doses to maximum exposed individuals were estimated based on measured concentrations of radionuclides in 2014 MNS REMP samples. The primary purpose of estimating doses based on sample results is to allow comparison to effluent program dose estimates.

Doses based on sample results were calculated using the methodology and data presented in NRC Regulatory Guide 1.109. Measured radionuclide concentrations, averaged over the entire year for a specific radionuclide, indicator location and sample type, were used to calculate REMP-based doses. Where applicable, average background concentration at the corresponding control location was subtracted. Regulatory Guide 1.109 consumption rates for the maximum exposed individual were used in the calculations. When the guide listed "NO DATA" as the dose factor for a given radionuclide and organ, a dose factor of zero was assumed.

Maximum dose estimates (Highest Annual Mean Concentration) based on drinking water, fish, and shoreline sediment sample results are reported in Table 4.1-A. The individual critical population and pathway dose calculations are reported in Table 4.1-B.

REMP-based dose estimates are not reported for airborne radioiodine, airborne particulate, food crops, milk or vegetation sample types because no radionuclides attributable to MNS station operations were detected. Naturally occurring K-40 and Be-7 were detected in some samples but were not included in any REMP-based dose estimates. Dose estimates are not reported for surface water because sampled surface water is not considered to be a potable drinking water source although surface water tritium concentrations are used in calculating doses from fish. Exposure estimates based upon REMP TLD results are discussed in Section 3.9.

The maximum environmental organ dose estimate for any single sample type (excluding TLD results) collected during 2014 was 9.39E-2 mrem to the child liver, total body, thyroid, kidney, lung, and GI-LLI from the consumption of drinking water.

4.2 ESTIMATED DOSE FROM RELEASES

Throughout the year, dose estimates were calculated based on actual 2014 liquid and gaseous effluent release data. Effluent-based dose estimates were calculated using the RETDAS computer program which employs methodology and data presented in NRC Regulatory Guide 1.109. These doses are shown in Table 4.1-A along with the corresponding REMP-based dose estimates. Summaries of RETDAS dose calculations are reported in the Annual Radioactive Effluent Release Report.

The effluent-based liquid release doses are summations of the dose contributions from the drinking water, fish, and shoreline pathways. For iodine, particulate, and tritium exposure the effluent-based gaseous release doses are summations of the dose contributors from ground/plane, inhalation, milk and vegetation pathways.

4.3 COMPARISON OF DOSES

The environmental and effluent dose estimates given in Table 4.1-A agree reasonably well. The similarity of the doses indicate that the radioactivity levels in the environment do not differ significantly from those expected based on effluent measurements and modeling of the environmental exposure pathways. This indicates that effluent program dose estimates are both valid and reasonably conservative.

There are some differences in how effluent and environmental doses are calculated that affect the comparison. Doses calculated from environmental data are conservative because they are based on a mean that includes only samples with a net positive activity versus a mean that includes all sample results (i.e. zero results are not included in the mean). Also, airborne tritium is not measured in environmental samples but is used to calculate effluent doses.

Additionally, in 2010 McGuire began reporting estimated dose from effluent Carbon 14 (C-14). This change came about with the issuing of Regulatory Guide 1.21, Revision 2, Measuring, Evaluating and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste. A description of this change is found in the 2010 Annual Radiological Effluent Release Report. C-14 cannot be easily measured in the environment and therefore, environmental and effluent doses from C-14 cannot be compared directly.

In calculations based on liquid release pathways, drinking water consumption was the predominant dose pathway based on environmental and effluent data. The maximum total organ dose based on 2014 environmental sample results was 1.09E-1 mrem to the child liver. The maximum total organ dose of 1.54E-1 mrem for liquid effluent-based estimates was to the child liver.

In calculations based on gaseous release pathways, vegetation was the predominant dose pathway for effluent samples. The maximum organ dose for gaseous effluent estimates was 8.57E-1 mrem to the child bone. No radioactivity was detected from gaseous pathways in environmental samples; therefore, there is no calculated dose.

The doses calculated do not exceed 40CFR190 or 10CFR50 dose commitment limits for members of the public. Doses to members of the public attributable to the operation of MNS are being maintained well within regulatory limits.

TABLE 4.1-A

MCGUIRE NUCLEAR STATION
2014 ENVIRONMENTAL AND EFFLUENT DOSE COMPARISON

LIQUID RELEASE PATHWAY

Organ	Environmental or Effluent Data	Critical Age [1]	Critical Pathway [2]	Location	Maximum Dose [3] (mrem)
Skin	Environmental	Teen	Shoreline Sediment	130 (0.52 mi SW)	4.78E-04
Skin	Effluent	Teen	Shoreline Sediment	Discharge Pt.	3.89E-04
Bone	Environmental	Child	Fresh Water Fish	129 (0.51 mi ENE)	1.52E-02
Bone	Effluent	Child	Fresh Water Fish	Discharge Pt.	1.61E-02
Liver	Environmental	Child	Drinking Water	101 (3.31 mi E)	1.09E-01
Liver	Effluent	Child	Drinking Water	3.31 mi E	1.54E-01
T. Body	Environmental	Child	Drinking Water	101 (3.31 mi E)	9.71E-02
T. Body	Effluent	Child	Drinking Water	3.31 mi E	1.51E-01
Thyroid	Environmental	Child	Drinking Water	101 (3.31 mi E)	9.49E-02
Thyroid	Effluent	Child	Drinking Water	3.31 mi E	1.50E-01
Kidney	Environmental	Child	Drinking Water	101 (3.31 mi E)	9.96E-02
Kidney	Effluent	Child	Drinking Water	3.31 mi E	1.51E-01
Lung	Environmental	Child	Drinking Water	101 (3.31 mi E)	9.66E-02
Lung	Effluent	Child	Drinking Water	3.31 mi E	1.51E-01
GI-LLI	Environmental	Child	Drinking Water	101 (3.31 mi E)	9.50E-02
GI-LLI	Effluent	Child	Drinking Water	3.31 mi E	1.51E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critial Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the fish, drinking water and shoreline sediment pathways.

GASEOUS RELEASE PATHWAY

IODINE, PARTICULATE, and TRITIUM

Organ	Environmental or Effluent Data	Critical Age (1)	Critical Pathway (2)	Location	Maximum Dose (3) (mrem)
Skin	Environmental	-	-	-	0.00E+00
Skin	Effluent	All	Ground Plane	1.5 mi. NE	1.93E-05
Bone	Environmental	-	-	-	0.00E+00
Bone	Effluent	Child	Vegetation	1.5 mi. NE	8.57E-01
Liver	Environmental	-	-	-	0.00E+00
Liver	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01
T. Body	Environmental	-	-	-	0.00E+00
T. Body	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01
Thyroid	Environmental	-	-	-	0.00E+00
Thyroid	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01
Kidney	Environmental	-	-	-	0.00E+00
Kidney	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01
Lung	Environmental	-	-	-	0.00E+00
Lung	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01
GI-LLI	Environmental	-	-	-	0.00E+00
GI-LLI	Effluent	Child	Vegetation	1.5 mi. NE	2.67E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critial Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the ground/plane, inhalation, milk and vegetation pathways.

TABLE 4.1-B

Maximum Individual Dose for 2014 based on Environmental Measurements (mrem) for McGuire Nuclear Station

Age	Sample Medium	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Skin
Infant	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	TOTAL	0.00E+00	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	0.00E+00
Child	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	1.52E-02	1.55E-02	3.12E-03	9.68E-04	5.72E-03	2.68E-03	1.06E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
	TOTAL	1.52E-02	1.09E-01	9.71E-02	9.49E-02	9.96E-02	9.66E-02	9.50E-02	9.99E-05
Teen	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	1.21E-02	1.73E-02	6.78E-03	1.17E-03	6.65E-03	3.30E-03	1.40E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
	TOTAL	1.21E-02	6.63E-02	5.62E-02	5.02E-02	5.57E-02	5.23E-02	5.04E-02	4.78E-04
Adult	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	1.13E-02	1.70E-02	1.16E-02	1.52E-03	6.77E-03	3.27E-03	1.82E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
	TOTAL	1.13E-02	8.65E-02	8.12E-02	7.10E-02	7.63E-02	7.28E-02	7.13E-02	8.56E-05

Note: Dose tables are provided for sample media displaying positive nuclide occurrence.

McGuire Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Infant

Infant Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 330 l

	Ingestion Dose Factor							Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.99E-05	4.51E-06	NO DATA	4.41E-06	NO DATA	7.31E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	3.60E-06	8.98E-06	NO DATA	NO DATA	NO DATA	8.97E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	3.08E-05	5.38E-05	2.12E-05	NO DATA	NO DATA	1.59E-05	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	1.08E-05	2.55E-05	NO DATA	NO DATA	NO DATA	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.84E-05	6.31E-05	2.91E-05	NO DATA	3.06E-05	NO DATA	5.33E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	4.20E-08	1.73E-08	1.00E-08	NO DATA	1.24E-08	NO DATA	1.46E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.06E-07	5.02E-08	3.56E-08	NO DATA	5.41E-08	NO DATA	2.50E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	NO DATA	1.51E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.77E-04	7.03E-04	7.10E-05	NO DATA	1.81E-04	7.42E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	5.22E-04	6.11E-04	4.33E-05	NO DATA	1.64E-04	6.64E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	1.71E-04	1.71E-07	8.81E-06	NO DATA	4.06E-08	1.05E-07	4.20E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	101	907	0.00E+00	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02
						Dose Commitment (mrem) =				0.00E+00	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02	9.22E-02

McGuire Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Child

Child Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year)= 510 l

	Ingestion Dose Factor							Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C0-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	2.25E-08	8.76E-09	6.26E-09	NO DATA	8.23E-09	NO DATA	1.62E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.16E-07	2.55E-08	2.27E-08	NO DATA	3.65E-08	NO DATA	2.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	NO DATA	1.54E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	8.31E-05	7.28E-08	4.85E-06	NO DATA	2.37E-08	4.34E-08	4.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	101	907	0.00E+00	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02
						Dose Commitment (mrem) =				0.00E+00	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02	9.39E-02

McGuire Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Child

Child Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)
H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 768 pCi/l x 0.9 = 691 pCi/kg
Usage (intake in one year) = 6.9 kg

	Ingestion Dose Factor							Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Fish (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C0-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	129	6.75	1.52E-02	1.46E-02	2.15E-03	0.00E+00	4.75E-03	1.71E-03	9.13E-05
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	128	691	0.00E+00	9.68E-04	9.68E-04	9.68E-04	9.68E-04	9.68E-04	9.68E-04
						Dose Commitment (mrem) =				1.52E-02	1.55E-02	3.12E-03	9.68E-04	5.72E-03	2.68E-03	1.06E-03

McGuire Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Child

Shoreline Recreation =	**14**	**hr (in one year)**
Shore Width Factor =	**0.3**	**(lake shore - location 129)**
Shore Width Factor =	**0.2**	**(river shoreline - location 130)**
Sediment Surface Mass =	**40**	**kg/m^2**

Child Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m^2) x Shore Width Factor x Sediment Surface Mass (kg/m^2) x Sediment Concentration (pCi/kg)

External Dose Factor Standing on Contaminated Ground		**Highest Annual Net Mean Concentration**		**Dose**	
	(mrem/hr per pCi/m^2)	**Indicator**	**Sediment**	**(mrem)**	
Radionuclide	**T. Body**	**Skin**	**Location**	**(pCi/kg)**	**T. Body**	**Skin**
Cs-134	**1.20E-08**	**1.40E-08**	**ALL**	**0.00**	**0.00E+00**	**0.00E+00**
Cs-137	**4.20E-09**	**4.90E-09**	**130**	**182**	**8.56E-05**	**9.99E-05**
		Dose Commitment (mrem) =			**8.56E-05**	**9.99E-05**

McGuire Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Teen

Teen Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year)= 510 l

				Ingestion Dose Factor				Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	8.22E-09	4.56E-09	2.51E-09	NO DATA	4.42E-09	NO DATA	1.95E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	4.12E-08	1.30E-08	8.94E-09	NO DATA	1.91E-08	NO DATA	3.00E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	NO DATA	1.62E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.84E-05	3.48E-08	1.83E-06	NO DATA	1.18E-08	2.34E-08	4.38E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	101	907	0.00E+00	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02
						Dose Commitment (mrem)=				0.00E+00	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02

McGuire Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Teen

Teen Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 768 pCi/l x 0.9 = 691 pCi/kg

Usage (intake in one year) = 16 kg

	Ingestion Dose Factor							Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	**Bone**	**Liver**	**T. Body**	**Thyroid**	**Kidney**	**Lung**	**GI-LLI**	**Location**	**(pCi/kg)**	**Bone**	**Liver**	**T. Body**	**Thyroid**	**Kidney**	**Lung**	**GI-LLI**
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	129	6.75	1.21E-02	1.61E-02	5.61E-03	0.00E+00	5.48E-03	2.13E-03	2.29E-04
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	128	691	0.00E+00	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03
						Dose Commitment (mrem) =				1.21E-02	1.73E-02	6.78E-03	1.17E-03	6.65E-03	3.30E-03	1.40E-03

McGuire Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Teen

Shoreline Recreation =	**67**	**hr (in one year)**
Shore Width Factor =	**0.3**	**(lake shore - location 129)**
Shore Width Factor =	**0.2**	**(river shoreline - location 130)**
Sediment Surface Mass =	**40**	**kg/m^2**

Teen Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m^2) x Shore Width Factor x Sediment Surface Mass (kg/m^2) x Sediment Concentration (pCi/kg)

	External Dose Factor Standing on Contaminated Ground		**Highest Annual Net Mean Concentration**		**Dose**	
	(mrem/hr per pCi/m^2)		**Indicator**	**Sediment**	**(mrem)**	
Radionuclide	**T. Body**	**Skin**	**Location**	**(pCi/kg)**	**T. Body**	**Skin**
Cs-134	**1.20E-08**	**1.40E-08**	**ALL**	**0.00**	**0.00E+00**	**0.00E+00**
Cs-137	**4.20E-09**	**4.90E-09**	**130**	**182**	**4.10E-04**	**4.78E-04**
	Dose Commitment (mrem) =				**4.10E-04**	**4.78E-04**

McGuire Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Adult

Adult Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 730 l

	Ingestion Dose Factor							Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	6.22E-09	3.46E-09	1.86E-09	NO DATA	3.42E-09	NO DATA	2.10E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.04E-08	9.75E-09	6.60E-09	NO DATA	1.53E-08	NO DATA	3.09E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	NO DATA	1.57E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.03E-05	2.55E-08	1.33E-06	NO DATA	8.67E-09	1.46E-08	4.18E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	101	907	0.00E+00	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02
						Dose Commitment (mrem) =				0.00E+00	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02	6.95E-02

McGuire Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Adult

Adult Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 768 pCi/l x 0.9 = 691 pCi/kg

Usage (intake in one year) = 21 kg

			Ingestion Dose Factor					Highest Annual Net Mean Concentration		Dose (mrem)						
Radionuclide	**Bone**	**Liver**	**T. Body**	**Thyroid**	**Kidney**	**Lung**	**GI-LLI**	**Location**	**(pCi/kg)**	**Bone**	**Liver**	**T. Body**	**Thyroid**	**Kidney**	**Lung**	**GI-LLI**
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	129	6.75	1.13E-02	1.55E-02	1.01E-02	0.00E+00	5.24E-03	1.74E-03	2.99E-04
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	128	691	0.00E+00	1.52E-03	1.52E-03	1.52E-03	1.52E-03	1.52E-03	1.52E-03
						Dose Commitment (mrem) =				1.13E-02	1.70E-02	1.16E-02	1.52E-03	6.77E-03	3.27E-03	1.82E-03

McGuire Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Adult

Shoreline Recreation =	**12**	**hr (in one year)**
Shore Width Factor =	**0.3**	**(lake shore - location 129)**
Shore Width Factor =	**0.2**	**(river shoreline - location 130)**
Sediment Surface Mass =	**40**	**kg/m^2**

Adult Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m^2) x Shore Width Factor x Sediment Surface Mass (kg/m^2) x Sediment Concentration (pCi/kg)

External Dose Factor Standing on Contaminated Ground			**Highest Annual Net Mean Concentration**		**Dose**	
	(mrem/hr per pCi/m^2)				**(mrem)**	
Radionuclide	**T. Body**	**Skin**	**Indicator Location**	**Sediment (pCi/kg)**	**T. Body**	**Skin**
Cs-134	**1.20E-08**	**1.40E-08**	**ALL**	**0.00**	**0.00E+00**	**0.00E+00**
Cs-137	**4.20E-09**	**4.90E-09**	**130**	**182**	**7.34E-05**	**8.56E-05**
	Dose Commitment (mrem) =				**7.34E-05**	**8.56E-05**

5.0 QUALITY ASSURANCE

5.1 SAMPLE COLLECTION

EnRad Laboratories, Fisheries, and Aquatic Ecology performed the environmental sample collections as specified by approved sample collection procedures.

5.2 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.

5.3 DOSIMETRY ANALYSIS

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

5.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

5.4.1 DAILY QUALITY CONTROL

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

5.4.2 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.

5.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include gross beta in drinking water and tritium analyses.

5.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2014 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. ERA reported results were evaluated based on 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.

A low-level Iodine-131 in water cross check was not performed during 2014, but was performed during 2013. A low-level Iodine-131 in milk cross check was performed during 2014. The preparation and analysis of both media (milk and water) for the low-level Iodine-131 analysis is accomplished using the EnRad procedure 54, Preparation of Samples for low-level I-131 Analysis. Low-level Iodine-131 sample preparation and testing for both media is a similar process. A low-level Iodine-131 cross check in water is scheduled for the second quarter 2015 cross check program. Low-level Iodine-131 analysis of water was not required during 2014 since the dose calculated for the consumption of the water was not greater than 1 mrem per year in any supported program (PIP G-15-00781 or CR # 744148).

5.5.1 DUKE ENERGY INTERCOMPARISON PROGRAM

EnRad Laboratories participated in the Duke Energy Fleet Scientific Services (FSS) Intercomparison Program during 2014. Interlaboratory cross-check samples, including gamma in water (Marinelli beakers), low-level I-131 in milk, and tritium in water samples were analyzed during 2014. A summary of the EnRad Laboratory program results for 2014 is documented in Table 5.0-A.

5.5.2 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EnRad Laboratories participated in the Eckert & Ziegler Analytics Cross Check Program during 2014. Cross-check samples including air filters, air cartridges, gross beta in water, various gamma samples in Marinelli beakers (soil, vegetation, and milk), and Iodine in milk samples were analyzed at various times of the year. A summary of the EnRad Laboratory program results for 2014 is documented in Table 5.0-B.

5.5.3 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 2014 is documented in Table 5.0-C.

5.6 DUKE ENERGY AUDITS

The McGuire Nuclear Station Radiological Environmental Monitoring Program was audited by the Quality Assurance Group in 2014. No environmental monitoring issues were identified.

5.7 U.S. NUCLEAR REGULATORY COMMISSION INSPECTIONS

The McGuire Nuclear Station Radiological Environmental Monitoring Program was not audited by the NRC in 2014, but was audited by the NRC in 2013. No findings were noted in the 2013 audit report.

5.8 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM

EnRad Laboratories routinely participates with the North Carolina Department of Environmental Health and Human Services, Environmental, Radiation Protection Section in an intercomparison program. EnRad Laboratories sends air, surface water, milk, crops, vegetation, sediment, and fish samples which have been collected to the North Carolina Department of Environmental Health and Human Services, Environmental, Radiation Protection Section.

5.9 TLD INTERCOMPARISON PROGRAM

5.9.1 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 2014 Nuclear Technology Services Intercomparison Report is documented in Table 5.0-D. 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.

5.9.2 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 2014 Internal Cross Check (Duke Energy) Result is documented in Table 5.0-D.

TABLE 5.0-A

DUKE ENERGY

INTERLABORATORY COMPARISON PROGRAM

2014 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. Seven water samples were analyzed for tritium and gamma emitters, while three milk samples were analyzed for low-level I-131. The below table lists results for specific analyses. Fifty-eight results were 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.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	FSS Value	EnRad/FSS Ratio	Evaluation
Milk LLI-131	Q143LIM1	I-131	3	pCi/L	3.04E+03	2.96E+03	1.03	Agreement
			3	pCi/L	3.06E+03	2.96E+03	1.03	Agreement
			3	pCi/L	3.07E+03	2.96E+03	1.04	Agreement
	Q143LIM2	I-131	3	pCi/L	1.25E+03	1.27E+03	0.98	Agreement
			3	pCi/L	1.25E+03	1.27E+03	0.98	Agreement
			3	pCi/L	1.24E+03	1.27E+03	0.97	Agreement
	Q143LIM3	I-131	3	pCi/L	4.64E+02	4.58E+02	1.01	Agreement
			3	pCi/L	4.70E+02	4.58E+02	1.03	Agreement
Tritium in Water	Q143TWR1	H-3	3	pCi/L	1.77E+03	1.85E+03	0.96	Agreement
			3	pCi/L	1.79E+03	1.85E+03	0.97	Agreement
			3	pCi/L	1.78E+03	1.85E+03	0.96	Agreement
	Q143TWR2	H-3	3	pCi/L	1.76E+05	1.81E+05	0.97	Agreement
			3	pCi/L	1.75E+05	1.81E+05	0.96	Agreement
Tritium in Water	Q141TWR1	H-3	1	pCi/L	1.10E+03	1.05E+03	1.05	Agreement
					1.14E+03	1.05E+03	1.09	Agreement
					1.11E+03	1.05E+03	1.06	Agreement
	Q141TWR2	H-3	1	pCi/L	7.04E+03	7.46E+03	0.94	Agreement
					7.03E+03	7.46E+03	0.94	Agreement
					7.16E+03	7.46E+03	0.96	Agreement
	Q141TWR3	H-3	1	pCi/L	3.13E+03	3.21E+03	0.98	Agreement
					3.11E+03	3.21E+03	0.97	Agreement
					3.13E+03	3.21E+03	0.98	Agreement

TABLE 5.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	FSS Value	EnRad/FSS Ratio	Evaluation
Gamma in Water	Q143GWSL-1.0 L	Cr-51	3	pCi/L	1.71E+05	1.80E+05	0.95	Agreement
			3	pCi/L	1.70E+05	1.80E+05	0.95	Agreement
		Mn-54	3	pCi/L	6.34E+04	5.99E+04	1.06	Agreement
			3	pCi/L	6.35E+04	5.99E+04	1.06	Agreement
		Co-58	3	pCi/L	6.80E+04	6.89E+04	0.99	Agreement
			3	pCi/L	6.81E+04	6.89E+04	0.99	Agreement
		Fe-59	3	pCi/L	8.72E+04	8.38E+04	1.04	Agreement
			3	pCi/L	8.75E+04	8.38E+04	1.04	Agreement
		Co-60	3	pCi/L	1.27E+05	1.22E+05	1.04	Agreement
			3	pCi/L	1.26E+05	1.22E+05	1.03	Agreement
		Zn-65	3	pCi/L	3.52E+04	3.12E+04	1.13	Agreement
			3	pCi/L	3.53E+04	3.12E+04	1.13	Agreement
		Cs-134	3	pCi/L	5.97E+04	6.35E+04	0.91	Agreement
			3	pCi/L	5.95E+04	6.53E+04	0.91	Agreement
		Cs-137	3	pCi/L	8.01E+04	7.87E+04	1.02	Agreement
			3	pCi/L	7.98E+04	7.87E+04	1.01	Agreement
		Ce-141	3	pCi/L	7.13E+04	7.65E+04	0.93	Agreement
			3	pCi/L	7.24E+04	7.65E+04	0.95	Agreement
	Q143GWSL-3.5 L	Cr-51	3	pCi/L	1.76E+05	1.80E+05	0.98	Agreement
			3	pCi/L	1.73E+05	1.80E+05	0.96	Agreement
		Mn-54	3	pCi/L	6.32E+04	5.99E+04	1.06	Agreement
			3	pCi/L	6.31E+04	5.99E+04	1.05	Agreement
		Co-58	3	pCi/L	6.89E+04	6.89E+04	1.00	Agreement
			3	pCi/L	6.84E+04	6.89E+04	0.99	Agreement
		Fe-59	3	pCi/L	8.54E+04	8.38E+04	1.02	Agreement
			3	pCi/L	8.69E+04	8.38E+04	1.04	Agreement
		Co-60	3	pCi/L	1.28E+05	1.22E+05	1.05	Agreement
			3	pCi/L	1.27E+05	1.22E+05	1.04	Agreement
		Zn-65	3	pCi/L	3.42E+04	3.12E+04	1.10	Agreement
			3	pCi/L	3.45E+04	3.12E+04	1.11	Agreement
		Cs-134	3	pCi/L	6.39E+04	6.53E+04	0.98	Agreement
			3	pCi/L	6.17E+04	6.53E+04	0.95	Agreement
		Cs-137	3	pCi/L	8.11E+04	7.87E+04	1.03	Agreement
			3	pCi/L	8.08E+04	7.87E+04	1.03	Agreement
		Ce-141	3	pCi/L	7.39E+04	7.65E+04	0.97	Agreement
			3	pCi/L	7.36E+04	7.65E+04	0.96	Agreement

TABLE 5.0-B

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2014 Cross Check Results for EnRad Laboratories

Cross check samples are received, prepared, and analyzed in all four quarters of 2014. 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). Fifty environmental results were reported, of which 49 (98%) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E10901	Gross Beta	2	pCi	201	199	1.01	Agreement
Gamma in Soil	E10904	Ce-141	2	pCi/g	0.23	0.24	0.96	Agreement
		Cr-51	2	pCi/g	0.48	0.49	0.98	Agreement
		Cs-134	2	pCi/g	0.24	0.32	0.76	Non-Agreement*
		Cs-137	2	pCi/g	0.27	0.31	0.86	Agreement
		Co-58	2	pCi/g	0.18	0.22	0.83	Agreement
		Mn-54	2	pCi/g	0.29	0.3	0.96	Agreement
		Fe-59	2	pCi/g	0.2	0.2	1.01	Agreement
		Zn-65	2	pCi/g	0.49	0.49	1.00	Agreement
		Co-60	2	pCi/g	0.41	0.44	0.94	Agreement
I-131 in Milk	E10801	I-131	1	pCi/L	93.8	99.8	0.94	Agreement
Gross Beta in Water	E10905	Gross Beta	2	pCi/L	265	249	1.06	Agreement
I-131 Charcoal Cartridge	E10802	I-131	1	pCi	76.1	75.1	1.01	Agreement
Gamma in Vegetation (Coffee Grounds)	E10902	Ce-141	2	pCi/g	0.22	0.24	0.91	Agreement
		Cr-51	2	pCi/g	0.42	0.5	0.85	Agreement
		Cs-134	2	pCi/g	0.28	0.32	0.88	Agreement
		Cs-137	2	pCi/g	0.22	0.24	0.94	Agreement
		Co-58	2	pCi/g	0.21	0.22	0.96	Agreement
		Mn-54	2	pCi/g	0.28	0.3	0.92	Agreement
		Fe-59	2	pCi/g	0.19	0.2	0.95	Agreement
		Zn-65	2	pCi/g	0.44	0.49	0.89	Agreement
		Co-60	2	pCi/g	0.38	0.44	0.87	Agreement

* See PIP G-14-01710

TABLE 5.0-B (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E10987	Ce-141	3	pCi	64.1	62.6	1.02	Agreement
		Cr-51	3	pCi	135	143	0.94	Agreement
		Cs-134	3	pCi	74.6	78.3	0.95	Agreement
		Cs-137	3	pCi	97.8	95.9	1.02	Agreement
		Co-58	3	pCi	71.7	71	1.01	Agreement
		Mn-54	3	pCi	69.5	70.4	0.99	Agreement
		Fe-59	3	pCi	86.8	78.4	1.11	Agreement
		Zn-65	3	pCi	37	36.2	1.02	Agreement
		Co-60	3	pCi	161	148	1.09	Agreement
Gamma in Milk	E10800	I-131	1	pCi/L	97.3	98.5	0.99	Agreement
		Ce-141	1	pCi/L	120	119	1.01	Agreement
		Cr-51	1	pCi/L	505	491	1.03	Agreement
		Cs-134	1	pCi/L	192	210	0.92	Agreement
		Cs-137	1	pCi/L	255	253	1.01	Agreement
		Co-58	1	pCi/L	274	268	1.02	Agreement
		Mn-54	1	pCi/L	314	297	1.06	Agreement
		Fe-59	1	pCi/L	232	219	1.06	Agreement
		Zn-65	1	pCi/L	318	323	0.99	Agreement
		Co-60	1	pCi/L	335	337	0.99	Agreement
Gamma in Soil	E11051	Ce-141	4	pCi/g	0.31	0.35	0.89	Agreement
		Cr-51	4	pCi/g	0.61	0.648	0.94	Agreement
		Cs-134	4	pCi/g	0.25	0.263	0.95	Agreement
		Cs-137	4	pCi/g	0.36	0.396	0.91	Agreement
		Co-58	4	pCi/g	0.19	0.208	0.91	Agreement
		Mn-54	4	pCi/g	0.35	0.36	0.97	Agreement
		Fe-59	4	pCi/g	0.27	0.279	0.97	Agreement
		Zn-65	4	pCi/g	0.46	0.474	0.97	Agreement
		Co-60	4	pCi/g	0.34	0.375	0.91	Agreement

TABLE 5.0-C

ENVIRONMENTAL RESOURCE ASSOCIATES (ERA) PROFICIENCY TESTING

2014 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 2014. 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 Emitters in Water	RAD-97	Ba-133	2	pCi/L	87.51	87.9	74.0 - 96.7	Agreement
		Cs-134	2	pCi/L	41.01	44.3	35.5 - 48.7	Agreement
		Cs-137	2	pCi/L	85.47	89.1	80.2 - 101	Agreement
		Co-60	2	pCi/L	62.75	64.2	57.8 - 73.1	Agreement
		Zn-65	2	pCi/L	249.8	235	212 - 275	Agreement
Gamma Emitters in Water	RAD-99	Ba-133	4	pCi/L	46.9	49.1	40.3 - 54.5	Agreement
		Cs-134	4	pCi/L	81.7	89.8	73.7 - 98.8	Agreement
		Cs-137	4	pCi/L	96.9	98.8	88.9 - 111	Agreement
		Co-60	4	pCi/L	91	92.1	82.9 - 104	Agreement
		Zn-65	4	pCi/L	335	310	279 - 362	Agreement
Tritium in Water	RAD-97	H-3	2	pCi/L	8680	8770	7610 - 9650	Agreement
	RAD-99	H-3	4	pCi/L	6290	6880	5940 - 7570	Agreement
Iodine-131 in Water	RAD-97	I-131	2	pCi/L	25.9	25.7	21.3 - 30.3	Agreement
	RAD-99	I-131	4	pCi/L	20.4	20.3	16.8 - 24.4	Agreement

TABLE 5.0-D

2014 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 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102403	93.2	90.40	3.12	<+/-15%	Pass
103045	99.3	90.40	9.87	<+/-15%	Pass
103009	101.0	90.40	11.76	<+/-15%	Pass
102243	90.3	90.40	-0.09	<+/-15%	Pass
102858	97.9	90.40	8.33	<+/-15%	Pass
	Average Bias (B)		6.60		
	Standard Deviation (S)		4.93		
	Measure Performance |B|+S		11.53	<15%	Pass

2nd Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102196	18.07	18.66	-3.16	<+/-15%	Pass
102193	19.44	18.66	4.18	<+/-15%	Pass
102192	17.28	18.66	-7.40	<+/-15%	Pass
102176	17.70	18.66	-5.14	<+/-15%	Pass
102175	18.66	18.66	0.00	<+/-15%	Pass
	Average Bias (B)		-2.30		
	Standard Deviation (S)		4.53		
	Measure Performance |B|+S		6.83	<15%	Pass

3rd Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103705	70.04	69.7	0.49	<+/-15%	Pass
103704	69.36	69.7	-0.49	<+/-15%	Pass
103686	71.90	69.7	3.16	<+/-15%	Pass
103685	72.82	69.7	4.48	<+/-15%	Pass
103517	73.71	69.7	5.75	<+/-15%	Pass
	Average Bias (B)		2.68		
	Standard Deviation (S)		2.63		
	Measure Performance |B|+S		5.31	<15%	Pass

4th Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
101241	84.63	77.7	8.92	<+/-15%	Pass
103494	87.46	77.7	12.56	<+/-15%	Pass
103229	88.45	77.7	13.84	<+/-15%	Pass
103493	89.19	77.7	14.79	<+/-15%	Pass
103044	91.02	77.7	17.14	<+/-15%	**Fail
	Average Bias (B)		13.45		
	Standard Deviation (S)		3.04		
	Measure Performance |B|+S		16.49	<15%	**Fail

**Refer to PIP G-15-00554

TABLE 5.0-D (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 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
101221	30.14	32.7	-7.83	<+/-15%	Pass
102801	32.82	32.7	0.37	<+/-15%	Pass
100019	30.32	32.7	-7.28	<+/-15%	Pass
103173	32.14	32.7	-1.71	<+/-15%	Pass
100085	30.90	32.7	-5.50	<+/-15%	Pass
101024	30.92	32.7	-5.44	<+/-15%	Pass
100350	30.73	32.7	-6.02	<+/-15%	Pass
102359	30.71	32.7	-6.09	<+/-15%	Pass
103174	30.26	32.7	-7.46	<+/-15%	Pass
101376	31.49	32.7	-3.70	<+/-15%	Pass
	Average Bias (B)		-5.07		
	Standard Deviation (S)		2.65		
	Measure Performance |B|+S		7.72	<15%	Pass

2nd Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103635	22.36	21.8	2.57	<+/-15%	Pass
102777	22.93	21.8	5.18	<+/-15%	Pass
103181	22.78	21.8	4.50	<+/-15%	Pass
103218	22.82	21.8	4.68	<+/-15%	Pass
103657	22.29	21.8	2.25	<+/-15%	Pass
102927	21.90	21.8	0.46	<+/-15%	Pass
103396	21.54	21.8	-1.19	<+/-15%	Pass
102723	22.84	21.8	4.77	<+/-15%	Pass
103394	22.47	21.8	3.07	<+/-15%	Pass
103058	22.36	21.8	2.57	<+/-15%	Pass
	Average Bias (B)		2.89		
	Standard Deviation (S)		2.05		
	Measure Performance |B|+S		4.93	<15%	Pass

3rd Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102737	47.05	43.6	7.91	<+/-15%	Pass
102750	46.06	43.6	5.64	<+/-15%	Pass
102773	48.32	43.6	10.83	<+/-15%	Pass
102824	45.81	43.6	5.07	<+/-15%	Pass
102397	44.38	43.6	1.79	<+/-15%	Pass
102832	46.37	43.6	6.35	<+/-15%	Pass
102725	47.00	43.6	7.80	<+/-15%	Pass
102481	45.21	43.6	3.69	<+/-15%	Pass
102758	45.97	43.6	5.44	<+/-15%	Pass
103120	46.87	43.6	7.50	<+/-15%	Pass
	Average Bias (B)		6.20		
	Standard Deviation (S)		2.51		
	Measure Performance |B|+S		8.71	<15%	Pass

4th Quarter 2014

TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102768	57.48	54.5	5.47	<+/-15%	Pass
103263	55.38	54.5	1.61	<+/-15%	Pass
103453	56.30	54.5	3.30	<+/-15%	Pass
102746	54.25	54.5	-0.46	<+/-15%	Pass
103656	56.09	54.5	2.92	<+/-15%	Pass
102482	53.50	54.5	-1.83	<+/-15%	Pass
103446	54.71	54.5	0.39	<+/-15%	Pass
103339	53.55	54.5	-1.74	<+/-15%	Pass
103582	53.97	54.5	-0.97	<+/-15%	Pass
103288	55.43	54.5	1.71	<+/-15%	Pass
	Average Bias (B)		1.04		
	Standard Deviation (S)		2.40		
	Measure Performance |B|+S		3.44	<15%	Pass

APPENDIX A

ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at McGuire Nuclear Station was required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records, and Fisheries and Aquatic Ecology.

This appendix describes the environmental sampling frequencies and analysis procedures by media type.

I. CHANGE OF SAMPLING PROCEDURES

There were no changes to the sampling procedure during 2014.

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 and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) then transferred to appropriate counting geometry.

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

Tritium analyses are performed quarterly by using low-level environmental liquid scintillation analysis technique on a Packard 2550 liquid scintillation system or Perkin-Elmer 2900TR 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 by concentrating a designated aliquot of sample precipitate and analyzing by Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

REMP analytical results reporting with 2 Sigma error was initiated during 2014, replacing the 1 Sigma error reporting (PIP G-14-01981).

Low-level Iodine-131 (LLI-131) test components were modified to include only the LLI-131 component; all other components such as Berrylium-7 and Potassium-40 were removed (PIP G-14-02526).

Gamma spectroscopy milk Iodine-131 MDA requirement was removed from the "GAMMAMILK" analysis as the required low-level Iodine-131 (LLI-131) requirement is satisfied by the "GAMMALLI" LLI-131 preparation and testing procedure and gamma spectroscopy analysis (PIP G-14-02692).

The gamma spectroscopy system was replaced during 2014 (10JUL2014). Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (PIP G-15-00625).

IV. SAMPLING AND ANALYSIS PROCEDURES

A.1 AIRBORNE PARTICULATE AND RADIOIODINE

Airborne particulate and radioiodine samples at each of seven locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly. A separate weekly gamma analysis was performed on each charcoal cartridge and air particulate. A weekly gross beta analysis was performed on each filter. The continuous composite samples were collected from the locations listed below.

Location 102 = Amity Church Road (9.89 mi. WNW)(Control)
Location 103 = Cottonwood (4.20 mi. NE)
Location 120 = Site Boundary (0.46 mi. NNE)
Location 121 = Site Boundary (0.47 mi. NE)
Location 125 = Site Boundary (0.38 mi. SW)
Location 133 = Cornelius (6.23 mi. ENE)
Location 195 = Fishing Access Road (0.19 mi. N)

A.2 DRINKING WATER

Monthly composite samples were collected. A gross beta and gamma analysis was performed on monthly composites. Tritium analysis was performed on the quarterly composites. The composites were collected monthly from the locations listed below.

Location 101 = North Mecklenburg Water Treatment Facility (3.31 mi E)
Location 119 = Mt. Holly Municipal Water Supply (7.40 mi. SSW)
Location 132 = Charlotte Municipal Water Supply (11.1 mi. SSE)
Location 136 = Mooresville Municipal Water Supply (12.7 mi. NNE) (Control)
Location 194 = East Lincoln County Water Supply (6.73 mi. NNW)

A.3 SURFACE WATER

Monthly composite samples were collected. A gamma analysis was performed on the monthly composites. Tritium analysis was performed on the quarterly composites sample. The composites were collected monthly from the locations listed below.

Location 128 = Discharge Canal Bridge (0.45 mi. NE)
Location 131 = Cowans Ford Dam (0.64 mi. WNW)
Location 135 = Plant Marshall Intake Canal (11.9 mi. N) (Control)

A.4 MILK

Biweekly grab samples were collected at one location. A gamma and low-level Iodine-131 analysis was performed on each sample. The biweekly grab samples were collected from the location listed below.

Location 141 = Lynch Dairy - Cows (14.8 mi. WNW) (Control)

A.5 BROADLEAF VEGETATION

Monthly samples were collected as available and a gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 102 = Amity Church Road (9.89 mi. WNW) (Control)
Location 120 = Site Boundary (0.46 mi. NNE)
Location 125 = Site Boundary (0.38 mi. SW)
Location 193 = Site Boundary (0.19 mi. N)

A.6 FOOD PRODUCTS

Samples were collected monthly when available during the harvest season and a gamma analysis was performed on each. The samples were collected at the location listed below.

Location 104 = 5 mile radius Gardens (1.52 mi NNW)

A.7 FISH

Semiannual samples were collected and a gamma analysis was performed on the edible portions of each sample. Boney fish (i.e. Sunfish) were prepared whole minus the head and tail portions. The samples were collected from the locations listed below.

Location 129 = Discharge Canal Entrance to Lake Norman (0.51 mi. ENE)
Location 137 = Pinnacle Access Area (12.0 mi. N) (Control)

A.8 SHORELINE SEDIMENT

Semiannual samples were collected and a gamma analysis was performed on each following the drying and removal of rocks and clams. The samples were collected from the locations listed below.

Location 129 = Discharge Canal Entrance to Lake Norman (0.51 mi. ENE)
Location 130 = Highway 73 Bridge Downstream (0.52 mi. SW)
Location 137 = Pinnacle Access Area (12.0 mi. N) (Control)

A.9 DIRECT GAMMA RADIATION (TLD)

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-one locations. 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 14 TLDs at the site boundary, one in each available meteorological sector. The site boundary locations in the N and NNW sectors are over water; however, two special interest TLD's were placed in these sectors inside the site boundary in March, 1991.

* An outer ring of 16 TLDs, one in each meteorological sector in the 6 to 8 kilometer range.

* The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and control locations.

A.10 ANNUAL LAND USE CENSUS

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

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

The census was conducted during the growing season on 6/11 - 6/12/2014. Results are shown in Table 3.10. No changes were made to the sampling procedures during 2014 as a result of the 2014 census.

In the environmental program, the air deposition parameters (D/Q) are used to determine air, broadleaf vegetation and milk sampling locations. McGuire's sectors with the three highest values did not change in 2014.

V. GLOBAL POSITIONING SYSTEM (GPS) ANALYSIS

The McGuire site centerline used for GPS measurements was referenced from the McGuire Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1, Site Location. Waypoint coordinates used for MNS GPS measurements were latitude 35°-25'-59"N and longitude 80°-56'-55"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

APPENDIX B

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

SUMMARY OF RESULTS

2014

MCGUIRE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

McGuire Nuclear Station
Mecklenburg County, North Carolina

Docket Numbers 50-369, 370
Calendar Year 2014

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD)[1]	All Indicator Locations[2][3] Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range[2][3]	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range[2][3]		
Air Particulate (pCi/m^3)	Gross Beta 364	See Table 2.2-C	1.97E-2 (312/312) 9.48E-3 – 3.56E-2	195 (0.19 mi N)	2.02E-2 (52/52) 1.18E-2 – 3.25E-2	1.94E-2 (52/52) 8.32E-3 – 2.98E-2	0
	Gamma 28	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m^3)	Gamma 364	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 65	4	1.84 (47/52) 0.74 – 7.51	119 (7.40 mi SSW)	2.18 (11/13) 0.74 – 7.51	1.95 (13/13) 1.02 – 3.34	0
	Gamma 65	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 20	2000	642 (13/16) 254 - 1050	101 (3.31 mi E)	907 (4/4) 793 – 1050	All less than LLD	0
Surface Water (pCi/l)	Gamma 39	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 12	2000	732 (8/8) 392 - 1280	128 (0.45 mi NE)	1025 (4/4) 827 - 1280	257 (1/4) 257 – 257	0
Milk (pCi/l)	Gamma 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0
	I-131 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0

MCGUIRE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

McGuire Nuclear Station
Mecklenburg County, North Carolina

Docket Numbers 50-369, 370
Calendar Year 2014

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD)[1]	All Indicator Locations[2][3] Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range[2][3]	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range[2][3]		
Broadleaf Vegetation (pCi/kg, wet)	Gamma 48	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Food Products (pCi/kg, wet)	Gamma 10	See Table 2.2-C	All less than LLD	-----	-----	No Control Location	0
Fish (pCi/kg, wet)	Gamma 12 Cs-137	See Table 2.2-C	6.75 (2/6) 2.90 – 10.6	129 (0.51 mi ENE)	6.75 (2/6) 2.90 – 10.6	All less than LLD	0
Sediments--Shoreline (pCi/kg, dry)	Gamma 6 Cs-137	See Table 2.2-C	182 (2/4) 155 – 208	130 (0.52 mi SW)	182 (2/2) 155 – 208	All less than LLD	0
TLD (mR per quarter)[4]	TLD Readout 161[5]	-----	16.5 (157/157) 10.3 – 29.0	180 (12.7 mi NNE)	26.0 (4/4) 22.4 – 29.0	22.6 (4/4) 21.9 – 23.1	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Analytical Procedures Section/Gamma Spectrometry for an explanation of how LLD values were derived.

2. Mean and range are based on detectable measurements only.

3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.

4. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days). TLD data indicated in section 3.9 (Direct Gamma Radiation) are reported in mrem /yr (n * 0.95).

5. Missing samples are discussed in Appendices C and D

APPENDIX C

SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES

APPENDIX C

MCGUIRE NUCLEAR STATION
SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

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

C.1 SAMPLING DEVIATIONS

Air Radioiodine/Air Particulate

Location	Scheduled Collection Dates	Actual Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
125	1/6 – 1/13/2014	1/6 – 1/13/2014	PI	Power interruption to sampling equipment of 16.4 hours due to planned maintenance. A work request was not necessary as a result of this event.	G-14-00076

C.2 UNAVAILABLE ANALYSES

Crops/Food Products

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
104	4/7/2014	SU	Seasonally unavailable, no crops produced.	G-14-00773
104	5/5/2014	SU	Seasonally unavailable, no crops produced.	G-14-01016

TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
159	3/19/2014 – 6/18/2014	VN	TLD missing. 3rd quarter TLD placed.	G-14-01426
159	6/18/2014 – 9/17/2014	VN	TLD missing. 4th quarter TLD placed.	G-14-02150

APPENDIX D

ANALYTICAL DEVIATIONS

APPENDIX D

MCGUIRE NUCLEAR STATION
ANALYTICAL DEVIATIONS & UNAVAILABLE ANALYSES

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

D.1 ANALYTICAL DEVIATIONS

There were no analytical deviations during 2014.

D.2 ANALYTICAL UNAVAILABLE ANALYSES

TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
171	9/17/2014 – 12/17/2014	OT	TLD was collected but not reported due to a laboratory error during read out which caused the TLD to not be processed. The laboratory procedure was updated and enhanced to prevent recurrence.	G-15-00458

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2014

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2014.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280685	12/30/2013 - 1/6/2014	Beta	1.57E-02	1.32E-03	2.90E-03
280858	1/6/2014 - 1/13/2014	Beta	1.59E-02	1.31E-03	2.86E-03
281217	1/13/2014 - 1/20/2014	Beta	1.59E-02	1.34E-03	3.01E-03
281538	1/20/2014 - 1/27/2014	Beta	1.99E-02	1.41E-03	2.87E-03
282161	1/27/2014 - 2/3/2014	Beta	2.06E-02	1.48E-03	3.11E-03
282973	2/3/2014 - 2/10/2014	Beta	1.59E-02	1.33E-03	2.98E-03
283420	2/10/2014 - 2/17/2014	Beta	2.55E-02	1.59E-03	3.16E-03
284587	2/17/2014 - 2/24/2014	Beta	1.85E-02	1.43E-03	3.12E-03
285148	2/24/2014 - 3/3/2014	Beta	2.63E-02	1.59E-03	3.12E-03
285753	3/3/2014 - 3/10/2014	Beta	1.56E-02	1.43E-03	3.53E-03
286257	3/10/2014 - 3/17/2014	Beta	1.75E-02	1.37E-03	2.96E-03
287142	3/17/2014 - 3/24/2014	Beta	8.38E-03	1.22E-03	3.37E-03
288393	3/24/2014 - 3/31/2014	Beta	1.46E-02	1.32E-03	3.06E-03
289030	12/30/2013 - 3/31/2014	Cs-134	<1.88E-04	0.00E+00	1.88E-04
		Cs-137	<1.73E-04	0.00E+00	1.73E-04
		Be-7	1.39E-01	3.46E-03	2.92E-03
		K-40	1.93E-02	1.59E-03	2.26E-03
289117	3/31/2014 - 4/7/2014	Beta	1.95E-02	1.38E-03	2.71E-03
289503	4/7/2014 - 4/14/2014	Beta	1.59E-02	1.36E-03	3.11E-03
289913	4/14/2014 - 4/21/2014	Beta	1.92E-02	1.45E-03	3.18E-03
291518	4/21/2014 - 4/28/2014	Beta	2.26E-02	1.49E-03	2.96E-03
292812	4/28/2014 - 5/5/2014	Beta	1.53E-02	1.27E-03	2.76E-03
293074	5/5/2014 - 5/12/2014	Beta	2.39E-02	1.59E-03	3.30E-03
294705	5/12/2014 - 5/19/2014	Beta	2.04E-02	1.45E-03	3.00E-03
295214	5/19/2014 - 5/27/2014	Beta	2.22E-02	1.33E-03	2.44E-03
295475	5/27/2014 - 6/2/2014	Beta	2.66E-02	1.72E-03	3.35E-03
295990	6/2/2014 - 6/9/2014	Beta	1.76E-02	1.41E-03	3.14E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
296235	6/9/2014 - 6/16/2014	Beta	1.51E-02	1.36E-03	3.18E-03
296756	6/16/2014 - 6/23/2014	Beta	2.44E-02	1.51E-03	2.81E-03
296983	6/23/2014 - 6/30/2014	Beta	1.72E-02	1.34E-03	2.83E-03
297294	3/31/2014 - 6/30/2014	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.31E-03	0.00E+00	1.31E-03
		Be-7	1.49E-01	4.49E-02	3.62E-02
		K-40	2.94E-02	1.88E-02	7.97E-03
297380	6/30/2014 - 7/7/2014	Beta	1.86E-02	2.73E-03	2.92E-03
297668	7/7/2014 - 7/14/2014	Beta	2.13E-02	2.85E-03	2.94E-03
298204	7/14/2014 - 7/21/2014	Beta	1.89E-02	2.90E-03	3.36E-03
350496	7/21/2014 - 7/28/2014	Beta	1.76E-02	2.68E-03	2.92E-03
350967	7/28/2014 - 8/4/2014	Beta	1.77E-02	2.68E-03	2.88E-03
351188	8/4/2014 - 8/11/2014	Beta	2.90E-02	3.17E-03	2.92E-03
351594	8/11/2014 - 8/18/2014	Beta	2.10E-02	2.87E-03	3.01E-03
353408	8/18/2014 - 8/25/2014	Beta	2.16E-02	2.90E-03	3.02E-03
354028	8/25/2014 - 9/2/2014	Beta	2.04E-02	2.69E-03	2.88E-03
354425	9/2/2014 - 9/8/2014	Beta	8.32E-03	2.47E-03	3.37E-03
354746	9/8/2014 - 9/15/2014	Beta	1.22E-02	2.42E-03	2.95E-03
355121	9/15/2014 - 9/22/2014	Beta	2.98E-02	3.17E-03	2.92E-03
355610	9/22/2014 - 9/29/2014	Beta	1.22E-02	2.46E-03	3.04E-03
355617	6/30/2014 - 9/29/2014	Cs-134	<8.08E-04	0.00E+00	8.08E-04
		Cs-137	<8.89E-04	0.00E+00	8.89E-04
		Be-7	1.27E-01	2.41E-02	1.67E-02
		K-40	8.72E-03	8.37E-03	1.26E-02
356471	9/29/2014 - 10/6/2014	Beta	2.81E-02	3.18E-03	3.05E-03
357021	10/6/2014 - 10/13/2014	Beta	2.24E-02	3.27E-03	3.92E-03
358029	10/13/2014 - 10/20/2014	Beta	1.34E-02	2.53E-03	3.07E-03
358639	10/20/2014 - 10/27/2014	Beta	1.80E-02	2.75E-03	3.08E-03
359298	10/27/2014 - 11/3/2014	Beta	2.35E-02	3.19E-03	3.61E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Huntersville, North Carolina 28078

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
360008	11/3/2014 - 11/10/2014	Beta	2.12E-02	2.84E-03	2.90E-03
360693	11/10/2014 - 11/17/2014	Beta	2.26E-02	3.08E-03	3.41E-03
361557	11/17/2014 - 11/24/2014	Beta	2.46E-02	3.13E-03	3.32E-03
361937	11/24/2014 - 12/1/2014	Beta	1.59E-02	2.74E-03	3.30E-03
362761	12/1/2014 - 12/8/2014	Beta	2.01E-02	2.88E-03	3.17E-03
363504	12/8/2014 - 12/15/2014	Beta	2.16E-02	2.87E-03	2.95E-03
363953	12/15/2014 - 12/22/2014	Beta	2.73E-02	3.15E-03	3.06E-03
364480	12/22/2014 - 12/29/2014	Beta	1.58E-02	2.53E-03	2.76E-03
364487	9/29/2014 - 12/29/2014	Cs-134	<8.62E-04	0.00E+00	8.62E-04
		Cs-137	<7.35E-04	0.00E+00	7.35E-04
		Be-7	1.33E-01	2.32E-02	1.10E-02
		K-40	9.55E-03	6.93E-03	8.32E-03

Sample Point 103 [INDICATOR - NE @ 4.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280624	12/30/2013 - 1/6/2014	Beta	1.81E-02	1.36E-03	2.86E-03
280797	1/6/2014 - 1/13/2014	Beta	1.85E-02	1.39E-03	2.90E-03
281156	1/13/2014 - 1/20/2014	Beta	1.44E-02	1.30E-03	3.01E-03
281477	1/20/2014 - 1/27/2014	Beta	1.90E-02	1.39E-03	2.88E-03
282100	1/27/2014 - 2/3/2014	Beta	2.00E-02	1.45E-03	3.07E-03
282912	2/3/2014 - 2/10/2014	Beta	1.50E-02	1.32E-03	3.02E-03
283359	2/10/2014 - 2/17/2014	Beta	2.36E-02	1.54E-03	3.16E-03
284526	2/17/2014 - 2/24/2014	Beta	1.77E-02	1.40E-03	3.12E-03
285087	2/24/2014 - 3/3/2014	Beta	2.17E-02	1.47E-03	3.07E-03
285692	3/3/2014 - 3/10/2014	Beta	1.49E-02	1.41E-03	3.50E-03
286196	3/10/2014 - 3/17/2014	Beta	1.68E-02	1.38E-03	3.03E-03
287081	3/17/2014 - 3/24/2014	Beta	1.17E-02	1.31E-03	3.37E-03
288332	3/24/2014 - 3/31/2014	Beta	1.53E-02	1.32E-03	3.01E-03
289031	12/30/2013 - 3/31/2014	Cs-134	<2.98E-04	0.00E+00	2.98E-04
		Cs-137	<2.33E-04	0.00E+00	2.33E-04
		Be-7	1.45E-01	4.88E-03	4.38E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 103 [INDICATOR - NE @ 4.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
289031	12/30/2013 - 3/31/2014	K-40	2.37E-02	2.14E-03	2.71E-03
289056	3/31/2014 - 4/7/2014	Beta	1.84E-02	1.36E-03	2.75E-03
289442	4/7/2014 - 4/14/2014	Beta	1.72E-02	1.40E-03	3.13E-03
289852	4/14/2014 - 4/21/2014	Beta	1.80E-02	1.42E-03	3.18E-03
291457	4/21/2014 - 4/28/2014	Beta	1.83E-02	1.38E-03	2.93E-03
292751	4/28/2014 - 5/5/2014	Beta	1.59E-02	1.30E-03	2.78E-03
293013	5/5/2014 - 5/12/2014	Beta	2.50E-02	1.61E-03	3.31E-03
294644	5/12/2014 - 5/19/2014	Beta	2.16E-02	1.47E-03	3.00E-03
295153	5/19/2014 - 5/27/2014	Beta	2.19E-02	1.32E-03	2.41E-03
295414	5/27/2014 - 6/2/2014	Beta	2.25E-02	1.64E-03	3.38E-03
295929	6/2/2014 - 6/9/2014	Beta	1.57E-02	1.37E-03	3.15E-03
296174	6/9/2014 - 6/16/2014	Beta	1.57E-02	1.37E-03	3.19E-03
296695	6/16/2014 - 6/23/2014	Beta	2.52E-02	1.51E-03	2.77E-03
296922	6/23/2014 - 6/30/2014	Beta	1.82E-02	1.38E-03	2.87E-03
297295	3/31/2014 - 6/30/2014	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<1.65E-03	0.00E+00	1.65E-03
		Be-7	1.68E-01	5.01E-02	4.58E-02
		K-40	<4.68E-02	0.00E+00	4.68E-02
297319	6/30/2014 - 7/7/2014	Beta	1.80E-02	2.70E-03	2.92E-03
297607	7/7/2014 - 7/14/2014	Beta	2.05E-02	2.82E-03	2.94E-03
298143	7/14/2014 - 7/21/2014	Beta	1.51E-02	2.71E-03	3.33E-03
350497	7/21/2014 - 7/28/2014	Beta	1.90E-02	2.76E-03	2.95E-03
350968	7/28/2014 - 8/4/2014	Beta	1.88E-02	2.71E-03	2.87E-03
351189	8/4/2014 - 8/11/2014	Beta	2.46E-02	2.99E-03	2.92E-03
351595	8/11/2014 - 8/18/2014	Beta	2.14E-02	2.87E-03	2.99E-03
353409	8/18/2014 - 8/25/2014	Beta	2.33E-02	2.98E-03	3.04E-03
354029	8/25/2014 - 9/2/2014	Beta	1.93E-02	2.63E-03	2.87E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 103 [INDICATOR - NE @ 4.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
354426	9/2/2014 - 9/8/2014	Beta	1.33E-02	2.75E-03	3.39E-03
354747	9/8/2014 - 9/15/2014	Beta	1.22E-02	2.39E-03	2.92E-03
355123	9/15/2014 - 9/22/2014	Beta	3.20E-02	3.33E-03	3.01E-03
355611	9/22/2014 - 9/29/2014	Beta	1.38E-02	2.54E-03	3.04E-03
355618	6/30/2014 - 9/29/2014	Cs-134	<7.09E-04	0.00E+00	7.09E-04
		Cs-137	<9.45E-04	0.00E+00	9.45E-04
		Be-7	1.25E-01	2.28E-02	1.25E-02
		K-40	<1.77E-02	0.00E+00	1.77E-02
356472	9/29/2014 - 10/6/2014	Beta	2.60E-02	3.09E-03	3.05E-03
357022	10/6/2014 - 10/13/2014	Beta	1.89E-02	3.11E-03	3.88E-03
358030	10/13/2014 - 10/20/2014	Beta	1.68E-02	2.72E-03	3.12E-03
358640	10/20/2014 - 10/27/2014	Beta	1.53E-02	2.62E-03	3.07E-03
359300	10/27/2014 - 11/3/2014	Beta	2.24E-02	3.14E-03	3.61E-03
360009	11/3/2014 - 11/10/2014	Beta	2.20E-02	2.86E-03	2.88E-03
360694	11/10/2014 - 11/17/2014	Beta	1.71E-02	2.87E-03	3.45E-03
361558	11/17/2014 - 11/24/2014	Beta	2.43E-02	3.12E-03	3.32E-03
361938	11/24/2014 - 12/1/2014	Beta	1.84E-02	2.85E-03	3.29E-03
362762	12/1/2014 - 12/8/2014	Beta	1.88E-02	2.81E-03	3.14E-03
363505	12/8/2014 - 12/15/2014	Beta	2.27E-02	2.94E-03	2.98E-03
363954	12/15/2014 - 12/22/2014	Beta	2.79E-02	3.18E-03	3.06E-03
364481	12/22/2014 - 12/29/2014	Beta	1.86E-02	2.67E-03	2.76E-03
364488	9/29/2014 - 12/29/2014	Cs-134	<7.08E-04	0.00E+00	7.08E-04
		Cs-137	<6.83E-04	0.00E+00	6.83E-04
		Be-7	1.05E-01	2.12E-02	1.61E-02
		K-40	<2.08E-02	0.00E+00	2.08E-02

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280628	12/30/2013 - 1/6/2014	Beta	1.90E-02	1.36E-03	2.80E-03
280801	1/6/2014 - 1/13/2014	Beta	1.80E-02	1.40E-03	2.96E-03
281160	1/13/2014 - 1/20/2014	Beta	1.39E-02	1.29E-03	3.01E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
281481	1/20/2014 - 1/27/2014	Beta	2.07E-02	1.42E-03	2.87E-03
282104	1/27/2014 - 2/3/2014	Beta	1.96E-02	1.41E-03	3.00E-03
282916	2/3/2014 - 2/10/2014	Beta	1.64E-02	1.38E-03	3.10E-03
283363	2/10/2014 - 2/17/2014	Beta	2.49E-02	1.54E-03	3.07E-03
284530	2/17/2014 - 2/24/2014	Beta	1.93E-02	1.45E-03	3.12E-03
285091	2/24/2014 - 3/3/2014	Beta	2.58E-02	1.54E-03	3.01E-03
285696	3/3/2014 - 3/10/2014	Beta	1.54E-02	1.44E-03	3.57E-03
286200	3/10/2014 - 3/17/2014	Beta	2.07E-02	1.47E-03	3.03E-03
287085	3/17/2014 - 3/24/2014	Beta	1.32E-02	1.35E-03	3.37E-03
288336	3/24/2014 - 3/31/2014	Beta	1.61E-02	1.33E-03	2.96E-03
289032	12/30/2013 - 3/31/2014	Cs-134	<2.54E-04	0.00E+00	2.54E-04
		Cs-137	<2.93E-04	0.00E+00	2.93E-04
		Be-7	1.31E-01	5.58E-03	4.13E-03
		K-40	6.24E-03	1.71E-03	2.26E-03
289060	3/31/2014 - 4/7/2014	Beta	1.91E-02	1.39E-03	2.80E-03
289446	4/7/2014 - 4/14/2014	Beta	1.56E-02	1.35E-03	3.09E-03
289856	4/14/2014 - 4/21/2014	Beta	1.91E-02	1.46E-03	3.22E-03
291461	4/21/2014 - 4/28/2014	Beta	2.05E-02	1.41E-03	2.87E-03
292755	4/28/2014 - 5/5/2014	Beta	1.75E-02	1.35E-03	2.83E-03
293017	5/5/2014 - 5/12/2014	Beta	2.47E-02	1.61E-03	3.32E-03
294648	5/12/2014 - 5/19/2014	Beta	2.37E-02	1.52E-03	3.01E-03
295157	5/19/2014 - 5/27/2014	Beta	2.29E-02	1.34E-03	2.42E-03
295418	5/27/2014 - 6/2/2014	Beta	2.73E-02	1.75E-03	3.36E-03
295933	6/2/2014 - 6/9/2014	Beta	1.27E-02	1.30E-03	3.17E-03
296178	6/9/2014 - 6/16/2014	Beta	1.74E-02	1.44E-03	3.27E-03
296699	6/16/2014 - 6/23/2014	Beta	2.59E-02	1.51E-03	2.72E-03
296926	6/23/2014 - 6/30/2014	Beta	1.86E-02	1.40E-03	2.91E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
297296	3/31/2014 - 6/30/2014	Cs-134	<1.98E-03	0.00E+00	1.98E-03
		Cs-137	<1.92E-03	0.00E+00	1.92E-03
		Be-7	1.90E-01	5.08E-02	3.75E-02
		K-40	<5.95E-02	0.00E+00	5.95E-02
297323	6/30/2014 - 7/7/2014	Beta	2.00E-02	2.80E-03	2.93E-03
297611	7/7/2014 - 7/14/2014	Beta	2.09E-02	2.84E-03	2.95E-03
298147	7/14/2014 - 7/21/2014	Beta	1.81E-02	2.79E-03	3.23E-03
350498	7/21/2014 - 7/28/2014	Beta	1.88E-02	2.81E-03	3.04E-03
350969	7/28/2014 - 8/4/2014	Beta	1.56E-02	2.56E-03	2.86E-03
351190	8/4/2014 - 8/11/2014	Beta	2.74E-02	3.12E-03	2.94E-03
351596	8/11/2014 - 8/18/2014	Beta	2.38E-02	2.93E-03	2.93E-03
353410	8/18/2014 - 8/25/2014	Beta	2.13E-02	2.93E-03	3.10E-03
354030	8/25/2014 - 9/2/2014	Beta	1.95E-02	2.64E-03	2.87E-03
354427	9/2/2014 - 9/8/2014	Beta	1.33E-02	2.75E-03	3.39E-03
354748	9/8/2014 - 9/15/2014	Beta	1.42E-02	2.46E-03	2.86E-03
355126	9/15/2014 - 9/22/2014	Beta	3.30E-02	3.39E-03	3.05E-03
355612	9/22/2014 - 9/29/2014	Beta	1.38E-02	2.54E-03	3.04E-03
355619	6/30/2014 - 9/29/2014	Cs-134	<8.83E-04	0.00E+00	8.83E-04
		Cs-137	<7.00E-04	0.00E+00	7.00E-04
		Be-7	1.40E-01	2.54E-02	1.71E-02
		K-40	1.02E-02	9.13E-03	1.36E-02
356473	9/29/2014 - 10/6/2014	Beta	2.73E-02	3.13E-03	3.02E-03
357023	10/6/2014 - 10/13/2014	Beta	1.89E-02	3.09E-03	3.85E-03
358031	10/13/2014 - 10/20/2014	Beta	1.74E-02	2.76E-03	3.13E-03
358641	10/20/2014 - 10/27/2014	Beta	1.85E-02	2.86E-03	3.21E-03
359303	10/27/2014 - 11/3/2014	Beta	2.17E-02	3.12E-03	3.61E-03
360010	11/3/2014 - 11/10/2014	Beta	2.49E-02	2.96E-03	2.82E-03
360695	11/10/2014 - 11/17/2014	Beta	2.61E-02	3.30E-03	3.53E-03
361559	11/17/2014 - 11/24/2014	Beta	2.21E-02	3.03E-03	3.33E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	Sample Dates	Nuclide	Activity	Sigma Error [1]	LLD
361939	11/24/2014 - 12/1/2014	Beta	1.60E-02	2.74E-03	3.29E-03
362763	12/1/2014 - 12/8/2014	Beta	2.34E-02	2.96E-03	3.07E-03
363506	12/8/2014 - 12/15/2014	Beta	2.15E-02	2.84E-03	2.90E-03
363955	12/15/2014 - 12/22/2014	Beta	2.42E-02	3.03E-03	3.07E-03
364482	12/22/2014 - 12/29/2014	Beta	1.40E-02	2.43E-03	2.75E-03
364489	9/29/2014 - 12/29/2014	Cs-134	<8.81E-04	0.00E+00	8.81E-04
		Cs-137	<7.53E-04	0.00E+00	7.53E-04
		Be-7	1.20E-01	2.42E-02	2.10E-02
		K-40	<1.84E-02	0.00E+00	1.84E-02

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	Sample Dates	Nuclide	Activity	Sigma Error [1]	LLD
280625	12/30/2013 - 1/6/2014	Beta	1.68E-02	1.31E-03	2.80E-03
280798	1/6/2014 - 1/13/2014	Beta	1.72E-02	1.37E-03	2.95E-03
281157	1/13/2014 - 1/20/2014	Beta	1.49E-02	1.32E-03	3.01E-03
281478	1/20/2014 - 1/27/2014	Beta	1.90E-02	1.43E-03	3.02E-03
282101	1/27/2014 - 2/3/2014	Beta	2.09E-02	1.45E-03	3.03E-03
282913	2/3/2014 - 2/10/2014	Beta	1.74E-02	1.39E-03	3.07E-03
283360	2/10/2014 - 2/17/2014	Beta	2.29E-02	1.50E-03	3.07E-03
284527	2/17/2014 - 2/24/2014	Beta	1.75E-02	1.40E-03	3.12E-03
285088	2/24/2014 - 3/3/2014	Beta	2.24E-02	1.47E-03	3.02E-03
285693	3/3/2014 - 3/10/2014	Beta	1.57E-02	1.44E-03	3.56E-03
286197	3/10/2014 - 3/17/2014	Beta	1.37E-02	1.30E-03	3.03E-03
287082	3/17/2014 - 3/24/2014	Beta	1.29E-02	1.34E-03	3.37E-03
288333	3/24/2014 - 3/31/2014	Beta	1.88E-02	1.39E-03	2.97E-03
289033	12/30/2013 - 3/31/2014	Cs-134	<2.28E-04	0.00E+00	2.28E-04
		Cs-137	<2.66E-04	0.00E+00	2.66E-04
		Be-7	1.36E-01	4.48E-03	3.85E-03
		K-40	2.35E-02	2.38E-03	2.96E-03
289057	3/31/2014 - 4/7/2014	Beta	1.52E-02	1.29E-03	2.78E-03
289443	4/7/2014 - 4/14/2014	Beta	1.79E-02	1.41E-03	3.10E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
289853	4/14/2014 - 4/21/2014	Beta	1.85E-02	1.42E-03	3.14E-03
291458	4/21/2014 - 4/28/2014	Beta	1.90E-02	1.38E-03	2.88E-03
292752	4/28/2014 - 5/5/2014	Beta	1.66E-02	1.33E-03	2.82E-03
293014	5/5/2014 - 5/12/2014	Beta	2.57E-02	1.63E-03	3.32E-03
294645	5/12/2014 - 5/19/2014	Beta	2.12E-02	1.47E-03	3.00E-03
295154	5/19/2014 - 5/27/2014	Beta	2.18E-02	1.31E-03	2.40E-03
295415	5/27/2014 - 6/2/2014	Beta	2.34E-02	1.67E-03	3.40E-03
295930	6/2/2014 - 6/9/2014	Beta	1.66E-02	1.40E-03	3.17E-03
296175	6/9/2014 - 6/16/2014	Beta	1.45E-02	1.34E-03	3.18E-03
296696	6/16/2014 - 6/23/2014	Beta	2.24E-02	1.43E-03	2.73E-03
296923	6/23/2014 - 6/30/2014	Beta	2.15E-02	1.47E-03	2.91E-03
297297	3/31/2014 - 6/30/2014	Cs-134	<4.08E-04	0.00E+00	4.08E-04
		Cs-137	<2.14E-03	0.00E+00	2.14E-03
		Be-7	2.21E-01	5.40E-02	3.39E-02
		K-40	<4.67E-02	0.00E+00	4.67E-02
297320	6/30/2014 - 7/7/2014	Beta	2.01E-02	2.81E-03	2.94E-03
297608	7/7/2014 - 7/14/2014	Beta	1.95E-02	2.77E-03	2.94E-03
298144	7/14/2014 - 7/21/2014	Beta	1.51E-02	2.66E-03	3.24E-03
350499	7/21/2014 - 7/28/2014	Beta	1.82E-02	2.77E-03	3.04E-03
350970	7/28/2014 - 8/4/2014	Beta	1.66E-02	2.61E-03	2.87E-03
351191	8/4/2014 - 8/11/2014	Beta	3.06E-02	3.25E-03	2.93E-03
351597	8/11/2014 - 8/18/2014	Beta	2.15E-02	2.84E-03	2.94E-03
353411	8/18/2014 - 8/25/2014	Beta	2.21E-02	2.97E-03	3.09E-03
354031	8/25/2014 - 9/2/2014	Beta	1.98E-02	2.65E-03	2.87E-03
354428	9/2/2014 - 9/8/2014	Beta	1.36E-02	2.77E-03	3.39E-03
354749	9/8/2014 - 9/15/2014	Beta	1.39E-02	2.45E-03	2.86E-03
355128	9/15/2014 - 9/22/2014	Beta	3.45E-02	3.45E-03	3.04E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
355613	9/22/2014 - 9/29/2014	Beta	1.46E-02	2.57E-03	3.04E-03
355620	6/30/2014 - 9/29/2014	Cs-134	<7.19E-04	0.00E+00	7.19E-04
		Cs-137	<6.06E-04	0.00E+00	6.06E-04
		Be-7	1.19E-01	2.10E-02	1.32E-02
		K-40	1.87E-02	7.85E-03	2.12E-03
356474	9/29/2014 - 10/6/2014	Beta	2.94E-02	3.21E-03	3.03E-03
357024	10/6/2014 - 10/13/2014	Beta	1.79E-02	3.04E-03	3.84E-03
358032	10/13/2014 - 10/20/2014	Beta	1.50E-02	2.69E-03	3.21E-03
358642	10/20/2014 - 10/27/2014	Beta	1.76E-02	2.73E-03	3.06E-03
359305	10/27/2014 - 11/3/2014	Beta	2.19E-02	3.13E-03	3.62E-03
360011	11/3/2014 - 11/10/2014	Beta	2.25E-02	2.85E-03	2.83E-03
360696	11/10/2014 - 11/17/2014	Beta	2.28E-02	3.15E-03	3.51E-03
361560	11/17/2014 - 11/24/2014	Beta	2.63E-02	3.20E-03	3.33E-03
361940	11/24/2014 - 12/1/2014	Beta	1.70E-02	2.79E-03	3.29E-03
362764	12/1/2014 - 12/8/2014	Beta	2.28E-02	2.94E-03	3.08E-03
363507	12/8/2014 - 12/15/2014	Beta	1.99E-02	2.86E-03	3.04E-03
363956	12/15/2014 - 12/22/2014	Beta	2.28E-02	2.97E-03	3.07E-03
364483	12/22/2014 - 12/29/2014	Beta	1.76E-02	2.62E-03	2.75E-03
364490	9/29/2014 - 12/29/2014	Cs-134	<7.91E-04	0.00E+00	7.91E-04
		Cs-137	<6.27E-04	0.00E+00	6.27E-04
		Be-7	1.11E-01	2.06E-02	9.67E-03
		K-40	<1.65E-02	0.00E+00	1.65E-02

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280626	12/30/2013 - 1/6/2014	Beta	1.78E-02	1.34E-03	2.81E-03
280799	1/6/2014 - 1/13/2014	Beta	1.77E-02	1.68E-03	3.87E-03
281158	1/13/2014 - 1/20/2014	Beta	1.37E-02	1.29E-03	3.01E-03
281479	1/20/2014 - 1/27/2014	Beta	1.83E-02	1.42E-03	3.02E-03
282102	1/27/2014 - 2/3/2014	Beta	2.11E-02	1.46E-03	3.03E-03
282914	2/3/2014 - 2/10/2014	Beta	1.91E-02	1.43E-03	3.06E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
283361	2/10/2014 - 2/17/2014	Beta	2.43E-02	1.53E-03	3.08E-03
284528	2/17/2014 - 2/24/2014	Beta	1.76E-02	1.41E-03	3.12E-03
285089	2/24/2014 - 3/3/2014	Beta	2.25E-02	1.47E-03	3.03E-03
285694	3/3/2014 - 3/10/2014	Beta	1.59E-02	1.45E-03	3.55E-03
286198	3/10/2014 - 3/17/2014	Beta	1.76E-02	1.40E-03	3.03E-03
287083	3/17/2014 - 3/24/2014	Beta	9.48E-03	1.25E-03	3.37E-03
288334	3/24/2014 - 3/31/2014	Beta	1.59E-02	1.33E-03	2.98E-03
289034	12/30/2013 - 3/31/2014	Cs-134	<2.75E-04	0.00E+00	2.75E-04
		Cs-137	<3.47E-04	0.00E+00	3.47E-04
		Be-7	1.34E-01	5.05E-03	4.81E-03
		K-40	8.87E-03	2.10E-03	3.43E-03
289058	3/31/2014 - 4/7/2014	Beta	1.81E-02	1.37E-03	2.79E-03
289444	4/7/2014 - 4/14/2014	Beta	1.44E-02	1.33E-03	3.12E-03
289854	4/14/2014 - 4/21/2014	Beta	2.09E-02	1.49E-03	3.20E-03
291459	4/21/2014 - 4/28/2014	Beta	2.11E-02	1.43E-03	2.89E-03
292753	4/28/2014 - 5/5/2014	Beta	1.82E-02	1.37E-03	2.84E-03
293015	5/5/2014 - 5/12/2014	Beta	2.43E-02	1.60E-03	3.31E-03
294646	5/12/2014 - 5/19/2014	Beta	2.00E-02	1.44E-03	3.00E-03
295155	5/19/2014 - 5/27/2014	Beta	2.27E-02	1.34E-03	2.42E-03
295416	5/27/2014 - 6/2/2014	Beta	2.13E-02	1.61E-03	3.37E-03
295931	6/2/2014 - 6/9/2014	Beta	1.58E-02	1.37E-03	3.16E-03
296176	6/9/2014 - 6/16/2014	Beta	1.39E-02	1.33E-03	3.19E-03
296697	6/16/2014 - 6/23/2014	Beta	2.47E-02	1.49E-03	2.72E-03
296924	6/23/2014 - 6/30/2014	Beta	2.11E-02	1.45E-03	2.90E-03
297298	3/31/2014 - 6/30/2014	Cs-134	<1.40E-03	0.00E+00	1.40E-03
		Cs-137	<4.82E-04	0.00E+00	4.82E-04
		Be-7	1.62E-01	4.64E-02	3.43E-02
		K-40	<4.92E-02	0.00E+00	4.92E-02
297321	6/30/2014 - 7/7/2014	Beta	1.85E-02	2.74E-03	2.94E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
297609	7/7/2014 - 7/14/2014	Beta	2.11E-02	2.84E-03	2.94E-03
298145	7/14/2014 - 7/21/2014	Beta	1.70E-02	2.75E-03	3.24E-03
350500	7/21/2014 - 7/28/2014	Beta	1.87E-02	2.81E-03	3.04E-03
350971	7/28/2014 - 8/4/2014	Beta	1.62E-02	2.59E-03	2.87E-03
351192	8/4/2014 - 8/11/2014	Beta	3.34E-02	3.36E-03	2.94E-03
351598	8/11/2014 - 8/18/2014	Beta	2.16E-02	2.85E-03	2.94E-03
353412	8/18/2014 - 8/25/2014	Beta	2.09E-02	2.91E-03	3.09E-03
354032	8/25/2014 - 9/2/2014	Beta	1.93E-02	2.63E-03	2.87E-03
354429	9/2/2014 - 9/8/2014	Beta	1.27E-02	2.71E-03	3.38E-03
354750	9/8/2014 - 9/15/2014	Beta	1.41E-02	2.46E-03	2.87E-03
355130	9/15/2014 - 9/22/2014	Beta	3.56E-02	3.49E-03	3.05E-03
355614	9/22/2014 - 9/29/2014	Beta	1.13E-02	2.42E-03	3.05E-03
355621	6/30/2014 - 9/29/2014	Cs-134	<6.12E-04	0.00E+00	6.12E-04
		Cs-137	<8.68E-04	0.00E+00	8.68E-04
		Be-7	1.35E-01	2.42E-02	1.46E-02
		K-40	9.68E-03	6.80E-03	7.79E-03
356475	9/29/2014 - 10/6/2014	Beta	2.80E-02	3.16E-03	3.04E-03
357025	10/6/2014 - 10/13/2014	Beta	2.22E-02	3.20E-03	3.81E-03
358033	10/13/2014 - 10/20/2014	Beta	1.71E-02	2.79E-03	3.21E-03
358643	10/20/2014 - 10/27/2014	Beta	1.88E-02	2.78E-03	3.06E-03
359308	10/27/2014 - 11/3/2014	Beta	2.28E-02	3.17E-03	3.62E-03
360012	11/3/2014 - 11/10/2014	Beta	2.63E-02	3.02E-03	2.83E-03
360697	11/10/2014 - 11/17/2014	Beta	2.28E-02	3.14E-03	3.50E-03
361561	11/17/2014 - 11/24/2014	Beta	2.10E-02	2.98E-03	3.32E-03
361941	11/24/2014 - 12/1/2014	Beta	1.67E-02	2.77E-03	3.29E-03
362765	12/1/2014 - 12/8/2014	Beta	2.01E-02	2.83E-03	3.08E-03
363508	12/8/2014 - 12/15/2014	Beta	1.84E-02	2.78E-03	3.03E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
363957	12/15/2014 - 12/22/2014	Beta	2.55E-02	3.09E-03	3.07E-03
364484	12/22/2014 - 12/29/2014	Beta	1.76E-02	2.61E-03	2.75E-03
364491	9/29/2014 - 12/29/2014	Cs-134	<4.74E-04	0.00E+00	4.74E-04
		Cs-137	<4.45E-04	0.00E+00	4.45E-04
		Be-7	1.22E-01	1.84E-02	1.20E-02
		K-40	1.44E-02	7.25E-03	9.39E-03

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280627	12/30/2013 - 1/6/2014	Beta	1.69E-02	1.33E-03	2.86E-03
280800	1/6/2014 - 1/13/2014	Beta	1.79E-02	1.38E-03	2.90E-03
281159	1/13/2014 - 1/20/2014	Beta	1.41E-02	1.30E-03	3.01E-03
281480	1/20/2014 - 1/27/2014	Beta	1.86E-02	1.42E-03	3.02E-03
282103	1/27/2014 - 2/3/2014	Beta	1.90E-02	1.42E-03	3.07E-03
282915	2/3/2014 - 2/10/2014	Beta	1.65E-02	1.36E-03	3.02E-03
283362	2/10/2014 - 2/17/2014	Beta	2.41E-02	1.55E-03	3.15E-03
284529	2/17/2014 - 2/24/2014	Beta	1.67E-02	1.39E-03	3.12E-03
285090	2/24/2014 - 3/3/2014	Beta	2.56E-02	1.56E-03	3.08E-03
285695	3/3/2014 - 3/10/2014	Beta	1.59E-02	1.43E-03	3.49E-03
286199	3/10/2014 - 3/17/2014	Beta	1.74E-02	1.39E-03	3.04E-03
287084	3/17/2014 - 3/24/2014	Beta	1.14E-02	1.30E-03	3.37E-03
288335	3/24/2014 - 3/31/2014	Beta	1.40E-02	1.29E-03	3.01E-03
289035	12/30/2013 - 3/31/2014	Cs-134	<2.30E-04	0.00E+00	2.30E-04
		Cs-137	<3.14E-04	0.00E+00	3.14E-04
		Be-7	1.35E-01	6.47E-03	5.10E-03
		K-40	1.29E-02	2.48E-03	4.03E-03
289059	3/31/2014 - 4/7/2014	Beta	1.89E-02	1.37E-03	2.75E-03
289445	4/7/2014 - 4/14/2014	Beta	1.60E-02	1.37E-03	3.13E-03
289855	4/14/2014 - 4/21/2014	Beta	1.86E-02	1.44E-03	3.18E-03
291460	4/21/2014 - 4/28/2014	Beta	2.03E-02	1.43E-03	2.93E-03
292754	4/28/2014 - 5/5/2014	Beta	1.75E-02	1.34E-03	2.78E-03

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Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
293016	5/5/2014 - 5/12/2014	Beta	2.60E-02	1.63E-03	3.32E-03
294647	5/12/2014 - 5/19/2014	Beta	1.93E-02	1.42E-03	3.00E-03
295156	5/19/2014 - 5/27/2014	Beta	2.36E-02	1.35E-03	2.41E-03
295417	5/27/2014 - 6/2/2014	Beta	2.35E-02	1.67E-03	3.38E-03
295932	6/2/2014 - 6/9/2014	Beta	1.42E-02	1.35E-03	3.23E-03
296177	6/9/2014 - 6/16/2014	Beta	1.44E-02	1.34E-03	3.19E-03
296698	6/16/2014 - 6/23/2014	Beta	2.30E-02	1.47E-03	2.78E-03
296925	6/23/2014 - 6/30/2014	Beta	1.89E-02	1.40E-03	2.86E-03
297299	3/31/2014 - 6/30/2014	Cs-134	<1.63E-03	0.00E+00	1.63E-03
		Cs-137	<1.92E-03	0.00E+00	1.92E-03
		Be-7	1.80E-01	4.93E-02	3.72E-02
		K-40	<4.69E-02	0.00E+00	4.69E-02
297322	6/30/2014 - 7/7/2014	Beta	1.55E-02	2.59E-03	2.93E-03
297610	7/7/2014 - 7/14/2014	Beta	1.75E-02	2.73E-03	3.02E-03
298146	7/14/2014 - 7/21/2014	Beta	1.83E-02	2.86E-03	3.33E-03
350501	7/21/2014 - 7/28/2014	Beta	1.87E-02	2.75E-03	2.95E-03
350972	7/28/2014 - 8/4/2014	Beta	1.70E-02	2.63E-03	2.87E-03
351193	8/4/2014 - 8/11/2014	Beta	2.87E-02	3.17E-03	2.93E-03
351599	8/11/2014 - 8/18/2014	Beta	2.08E-02	2.85E-03	2.99E-03
353413	8/18/2014 - 8/25/2014	Beta	2.14E-02	2.90E-03	3.04E-03
354034	8/25/2014 - 9/2/2014	Beta	1.81E-02	2.59E-03	2.88E-03
354430	9/2/2014 - 9/8/2014	Beta	1.21E-02	2.68E-03	3.38E-03
354751	9/8/2014 - 9/15/2014	Beta	1.14E-02	2.35E-03	2.92E-03
355132	9/15/2014 - 9/22/2014	Beta	3.00E-02	3.25E-03	3.01E-03
355615	9/22/2014 - 9/29/2014	Beta	1.35E-02	2.52E-03	3.04E-03
355622	6/30/2014 - 9/29/2014	Cs-134	<1.11E-03	0.00E+00	1.11E-03
		Cs-137	<1.01E-03	0.00E+00	1.01E-03
		Be-7	1.45E-01	3.27E-02	2.56E-02
		K-40	<2.79E-02	0.00E+00	2.79E-02

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Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
356476	9/29/2014 - 10/6/2014	Beta	2.53E-02	3.06E-03	3.06E-03
357026	10/6/2014 - 10/13/2014	Beta	1.96E-02	3.08E-03	3.78E-03
358034	10/13/2014 - 10/20/2014	Beta	1.57E-02	2.66E-03	3.12E-03
358644	10/20/2014 - 10/27/2014	Beta	1.59E-02	2.65E-03	3.07E-03
359310	10/27/2014 - 11/3/2014	Beta	2.17E-02	3.11E-03	3.60E-03
360013	11/3/2014 - 11/10/2014	Beta	2.17E-02	2.85E-03	2.88E-03
360698	11/10/2014 - 11/17/2014	Beta	2.32E-02	3.13E-03	3.44E-03
361562	11/17/2014 - 11/24/2014	Beta	2.55E-02	3.17E-03	3.32E-03
361942	11/24/2014 - 12/1/2014	Beta	1.80E-02	2.83E-03	3.29E-03
362766	12/1/2014 - 12/8/2014	Beta	1.89E-02	2.81E-03	3.14E-03
363509	12/8/2014 - 12/15/2014	Beta	2.21E-02	2.92E-03	2.98E-03
363958	12/15/2014 - 12/22/2014	Beta	2.55E-02	3.08E-03	3.06E-03
364485	12/22/2014 - 12/29/2014	Beta	1.49E-02	2.48E-03	2.76E-03
364492	9/29/2014 - 12/29/2014	Cs-134	<8.80E-04	0.00E+00	8.80E-04
		Cs-137	<8.01E-04	0.00E+00	8.01E-04
		Be-7	1.01E-01	2.14E-02	1.78E-02
		K-40	<2.10E-02	0.00E+00	2.10E-02

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280629	12/30/2013 - 1/6/2014	Beta	1.71E-02	1.32E-03	2.80E-03
280802	1/6/2014 - 1/13/2014	Beta	1.89E-02	1.42E-03	2.96E-03
281161	1/13/2014 - 1/20/2014	Beta	1.44E-02	1.30E-03	3.01E-03
281482	1/20/2014 - 1/27/2014	Beta	2.22E-02	1.46E-03	2.87E-03
282105	1/27/2014 - 2/3/2014	Beta	2.06E-02	1.44E-03	3.00E-03
282917	2/3/2014 - 2/10/2014	Beta	1.79E-02	1.41E-03	3.10E-03
283364	2/10/2014 - 2/17/2014	Beta	2.51E-02	1.55E-03	3.07E-03
284531	2/17/2014 - 2/24/2014	Beta	1.83E-02	1.42E-03	3.12E-03
285092	2/24/2014 - 3/3/2014	Beta	2.72E-02	1.57E-03	3.01E-03

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Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
285697	3/3/2014 - 3/10/2014	Beta	1.42E-02	1.47E-03	3.75E-03
286201	3/10/2014 - 3/17/2014	Beta	1.71E-02	1.39E-03	3.03E-03
287086	3/17/2014 - 3/24/2014	Beta	1.18E-02	1.31E-03	3.37E-03
288337	3/24/2014 - 3/31/2014	Beta	1.68E-02	1.34E-03	2.96E-03
289036	12/30/2013 - 3/31/2014	Cs-134	<2.39E-04	0.00E+00	2.39E-04
		Cs-137	<2.94E-04	0.00E+00	2.94E-04
		Be-7	1.30E-01	5.01E-03	4.10E-03
		K-40	2.06E-02	2.13E-03	2.52E-03
289061	3/31/2014 - 4/7/2014	Beta	1.67E-02	1.33E-03	2.80E-03
289447	4/7/2014 - 4/14/2014	Beta	1.86E-02	1.42E-03	3.08E-03
289857	4/14/2014 - 4/21/2014	Beta	2.17E-02	1.52E-03	3.22E-03
291462	4/21/2014 - 4/28/2014	Beta	1.86E-02	1.37E-03	2.87E-03
292756	4/28/2014 - 5/5/2014	Beta	1.74E-02	1.35E-03	2.83E-03
293018	5/5/2014 - 5/12/2014	Beta	2.84E-02	1.68E-03	3.31E-03
294649	5/12/2014 - 5/19/2014	Beta	2.19E-02	1.48E-03	3.00E-03
295158	5/19/2014 - 5/27/2014	Beta	2.29E-02	1.34E-03	2.42E-03
295419	5/27/2014 - 6/2/2014	Beta	2.72E-02	1.74E-03	3.36E-03
295934	6/2/2014 - 6/9/2014	Beta	1.62E-02	1.39E-03	3.17E-03
296179	6/9/2014 - 6/16/2014	Beta	1.64E-02	1.39E-03	3.19E-03
296700	6/16/2014 - 6/23/2014	Beta	2.20E-02	1.42E-03	2.72E-03
296927	6/23/2014 - 6/30/2014	Beta	1.97E-02	1.42E-03	2.91E-03
297300	3/31/2014 - 6/30/2014	Cs-134	<4.09E-04	0.00E+00	4.09E-04
		Cs-137	<1.31E-03	0.00E+00	1.31E-03
		Be-7	1.91E-01	5.60E-02	5.59E-02
		K-40	<4.43E-02	0.00E+00	4.43E-02
297324	6/30/2014 - 7/7/2014	Beta	2.01E-02	2.81E-03	2.94E-03
297612	7/7/2014 - 7/14/2014	Beta	2.26E-02	2.87E-03	2.87E-03
298148	7/14/2014 - 7/21/2014	Beta	2.03E-02	2.88E-03	3.23E-03
350502	7/21/2014 - 7/28/2014	Beta	2.14E-02	2.94E-03	3.04E-03

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Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
350973	7/28/2014 - 8/4/2014	Beta	1.77E-02	2.66E-03	2.87E-03
351194	8/4/2014 - 8/11/2014	Beta	2.62E-02	3.07E-03	2.93E-03
351600	8/11/2014 - 8/18/2014	Beta	1.97E-02	2.76E-03	2.93E-03
353414	8/18/2014 - 8/25/2014	Beta	2.24E-02	2.99E-03	3.10E-03
354036	8/25/2014 - 9/2/2014	Beta	1.87E-02	2.61E-03	2.87E-03
354431	9/2/2014 - 9/8/2014	Beta	1.26E-02	2.71E-03	3.39E-03
354752	9/8/2014 - 9/15/2014	Beta	1.22E-02	2.36E-03	2.86E-03
355134	9/15/2014 - 9/22/2014	Beta	3.25E-02	3.37E-03	3.05E-03
355616	9/22/2014 - 9/29/2014	Beta	1.38E-02	2.53E-03	3.04E-03
355623	6/30/2014 - 9/29/2014	Cs-134	<6.24E-04	0.00E+00	6.24E-04
		Cs-137	<7.52E-04	0.00E+00	7.52E-04
		Be-7	1.27E-01	2.33E-02	1.34E-02
		K-40	1.38E-02	1.01E-02	1.41E-02
356477	9/29/2014 - 10/6/2014	Beta	2.67E-02	3.10E-03	3.02E-03
357027	10/6/2014 - 10/13/2014	Beta	2.21E-02	3.21E-03	3.85E-03
358035	10/13/2014 - 10/20/2014	Beta	1.53E-02	2.71E-03	3.21E-03
358645	10/20/2014 - 10/27/2014	Beta	1.53E-02	2.61E-03	3.05E-03
359312	10/27/2014 - 11/3/2014	Beta	2.21E-02	3.13E-03	3.62E-03
360014	11/3/2014 - 11/10/2014	Beta	2.52E-02	2.96E-03	2.82E-03
360699	11/10/2014 - 11/17/2014	Beta	2.13E-02	3.10E-03	3.53E-03
361563	11/17/2014 - 11/24/2014	Beta	2.45E-02	3.13E-03	3.33E-03
361943	11/24/2014 - 12/1/2014	Beta	1.93E-02	2.89E-03	3.29E-03
362767	12/1/2014 - 12/8/2014	Beta	2.06E-02	2.84E-03	3.07E-03
363510	12/8/2014 - 12/15/2014	Beta	2.20E-02	2.96E-03	3.04E-03
363959	12/15/2014 - 12/22/2014	Beta	3.07E-02	3.30E-03	3.07E-03
364486	12/22/2014 - 12/29/2014	Beta	1.46E-02	2.46E-03	2.75E-03
364493	9/29/2014 - 12/29/2014	Cs-134	<9.28E-04	0.00E+00	9.28E-04
		Cs-137	<6.27E-04	0.00E+00	6.27E-04

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

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	364493	Sample Dates: 9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	1.12E-01	2.16E-02	1.44E-02
			K-40	<1.83E-02	0.00E+00	1.83E-02

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

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	280630	Sample Dates: 12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.50E-02	0.00E+00	2.50E-02
			Cs-134	<1.79E-02	0.00E+00	1.79E-02
			Cs-137	<1.58E-02	0.00E+00	1.58E-02
			Be-7	<1.52E-01	0.00E+00	1.52E-01
			K-40	2.11E-01	1.32E-01	3.14E-01
Sample ID:	**280803**	**Sample Dates: 1/6/2014 - 1/13/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.25E-02	0.00E+00	2.25E-02
			Cs-134	<1.80E-02	0.00E+00	1.80E-02
			Cs-137	<2.31E-02	0.00E+00	2.31E-02
			Be-7	<1.43E-01	0.00E+00	1.43E-01
			K-40	2.46E-01	1.15E-01	2.17E-01
Sample ID:	**281162**	**Sample Dates: 1/13/2014 - 1/20/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.17E-02	0.00E+00	2.17E-02
			Cs-134	<1.43E-02	0.00E+00	1.43E-02
			Cs-137	<1.80E-02	0.00E+00	1.80E-02
			Be-7	<1.15E-01	0.00E+00	1.15E-01
			K-40	<5.18E-01	0.00E+00	5.18E-01
Sample ID:	**281483**	**Sample Dates: 1/20/2014 - 1/27/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.36E-02	0.00E+00	1.36E-02
			Cs-134	<1.36E-02	0.00E+00	1.36E-02
			Cs-137	<1.61E-02	0.00E+00	1.61E-02
			Be-7	<6.00E-02	0.00E+00	6.00E-02
			K-40	6.38E-01	1.41E-01	2.42E-01
Sample ID:	**282106**	**Sample Dates: 1/27/2014 - 2/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.22E-02	0.00E+00	2.22E-02
			Cs-134	<1.58E-02	0.00E+00	1.58E-02
			Cs-137	<1.98E-02	0.00E+00	1.98E-02
			Be-7	<1.65E-01	0.00E+00	1.65E-01
			K-40	<6.43E-01	0.00E+00	6.43E-01
Sample ID:	**282918**	**Sample Dates: 2/3/2014 - 2/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<9.21E-03	0.00E+00	9.21E-03
			Cs-134	<7.69E-03	0.00E+00	7.69E-03
			Cs-137	<8.55E-03	0.00E+00	8.55E-03
			Be-7	<5.66E-02	0.00E+00	5.66E-02
			K-40	5.15E-01	7.85E-02	8.76E-02
Sample ID:	**283365**	**Sample Dates: 2/10/2014 - 2/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.31E-02	0.00E+00	2.31E-02
			Cs-134	<1.52E-02	0.00E+00	1.52E-02
			Cs-137	<2.12E-02	0.00E+00	2.12E-02
			Be-7	<1.35E-01	0.00E+00	1.35E-01
			K-40	<5.89E-01	0.00E+00	5.89E-01
Sample ID:	**284532**	**Sample Dates: 2/17/2014 - 2/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.03E-02	0.00E+00	2.03E-02
			Cs-134	<1.88E-02	0.00E+00	1.88E-02
			Cs-137	<2.07E-02	0.00E+00	2.07E-02
			Be-7	<1.46E-01	0.00E+00	1.46E-01
			K-40	<5.93E-01	0.00E+00	5.93E-01
Sample ID:	**285093**	**Sample Dates: 2/24/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.05E-02	0.00E+00	2.05E-02
			Cs-134	<2.01E-02	0.00E+00	2.01E-02
			Cs-137	<1.93E-02	0.00E+00	1.93E-02
			Be-7	<1.08E-01	0.00E+00	1.08E-01
			K-40	2.07E-01	1.34E-01	3.19E-01

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Sample ID: 285698 **Sample Dates: 3/3/2014 - 3/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.28E-02	0.00E+00	2.28E-02
Cs-134	<2.06E-02	0.00E+00	2.06E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.42E-01	0.00E+00	1.42E-01
K-40	<5.35E-01	0.00E+00	5.35E-01

Sample ID: 286202 **Sample Dates: 3/10/2014 - 3/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.88E-02	0.00E+00	1.88E-02
Cs-134	<1.72E-02	0.00E+00	1.72E-02
Cs-137	<2.22E-02	0.00E+00	2.22E-02
Be-7	<1.42E-01	0.00E+00	1.42E-01
K-40	2.86E-01	1.34E-01	3.11E-01

Sample ID: 287087 **Sample Dates: 3/17/2014 - 3/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.21E-02	0.00E+00	1.21E-02
Cs-134	<7.18E-03	0.00E+00	7.18E-03
Cs-137	<2.98E-03	0.00E+00	2.98E-03
Be-7	<7.52E-02	0.00E+00	7.52E-02
K-40	3.78E-01	1.11E-01	1.81E-01

Sample ID: 288338 **Sample Dates: 3/24/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.94E-02	0.00E+00	2.94E-02
Cs-134	<1.44E-02	0.00E+00	1.44E-02
Cs-137	<2.30E-02	0.00E+00	2.30E-02
Be-7	<1.25E-01	0.00E+00	1.25E-01
K-40	6.88E-01	1.40E-01	7.74E-02

Sample ID: 289062 **Sample Dates: 3/31/2014 - 4/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.31E-02	0.00E+00	2.31E-02
Cs-134	<1.66E-02	0.00E+00	1.66E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.54E-01	0.00E+00	1.54E-01
K-40	<5.17E-01	0.00E+00	5.17E-01

Sample ID: 289448 **Sample Dates: 4/7/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.14E-02	0.00E+00	2.14E-02
Cs-134	<1.71E-02	0.00E+00	1.71E-02
Cs-137	<1.22E-02	0.00E+00	1.22E-02
Be-7	<1.35E-01	0.00E+00	1.35E-01
K-40	4.58E-01	1.14E-01	2.06E-01

Sample ID: 289858 **Sample Dates: 4/14/2014 - 4/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.32E-02	0.00E+00	2.32E-02
Cs-134	<2.08E-02	0.00E+00	2.08E-02
Cs-137	<1.99E-02	0.00E+00	1.99E-02
Be-7	<1.78E-01	0.00E+00	1.78E-01
K-40	<6.38E-01	0.00E+00	6.38E-01

Sample ID: 291463 **Sample Dates: 4/21/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.35E-02	0.00E+00	2.35E-02
Cs-134	<1.88E-02	0.00E+00	1.88E-02
Cs-137	<2.00E-02	0.00E+00	2.00E-02
Be-7	<1.71E-01	0.00E+00	1.71E-01
K-40	3.44E-01	1.25E-01	2.16E-01

Sample ID: 292757 **Sample Dates: 4/28/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.32E-02	0.00E+00	2.32E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<4.46E-03	0.00E+00	4.46E-03
Be-7	<1.37E-01	0.00E+00	1.37E-01
K-40	3.23E-01	1.28E-01	2.12E-01

Sample ID: 293019 **Sample Dates: 5/5/2014 - 5/12/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.32E-02	0.00E+00	1.32E-02
Cs-134	<1.26E-02	0.00E+00	1.26E-02
Cs-137	<1.34E-02	0.00E+00	1.34E-02
Be-7	<8.15E-02	0.00E+00	8.15E-02
K-40	2.88E-01	9.23E-02	1.84E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 294650 **Sample Dates: 5/12/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.64E-02	0.00E+00	1.64E-02
Cs-134	<1.41E-02	0.00E+00	1.41E-02
Cs-137	<2.33E-02	0.00E+00	2.33E-02
Be-7	<1.62E-01	0.00E+00	1.62E-01
K-40	<4.74E-01	0.00E+00	4.74E-01

Sample ID: 295159 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.97E-02	0.00E+00	1.97E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<1.95E-02	0.00E+00	1.95E-02
Be-7	<1.29E-01	0.00E+00	1.29E-01
K-40	5.74E-01	1.20E-01	1.88E-01

Sample ID: 295420 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.63E-02	0.00E+00	2.63E-02
Cs-134	<1.91E-02	0.00E+00	1.91E-02
Cs-137	<2.54E-02	0.00E+00	2.54E-02
Be-7	<1.89E-01	0.00E+00	1.89E-01
K-40	6.65E-01	1.49E-01	3.01E-01

Sample ID: 295935 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.44E-02	0.00E+00	2.44E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<2.33E-02	0.00E+00	2.33E-02
Be-7	<1.59E-01	0.00E+00	1.59E-01
K-40	6.89E-01	1.41E-01	7.76E-02

Sample ID: 296180 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.86E-02	0.00E+00	1.86E-02
Cs-134	<1.49E-02	0.00E+00	1.49E-02
Cs-137	<4.48E-03	0.00E+00	4.48E-03
Be-7	<1.32E-01	0.00E+00	1.32E-01
K-40	<5.40E-01	0.00E+00	5.40E-01

Sample ID: 296701 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.13E-02	0.00E+00	2.13E-02
Cs-134	<1.43E-02	0.00E+00	1.43E-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	6.85E-01	1.40E-01	2.60E-01

Sample ID: 296928 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.13E-02	0.00E+00	2.13E-02
Cs-134	<2.07E-02	0.00E+00	2.07E-02
Cs-137	<1.47E-02	0.00E+00	1.47E-02
Be-7	<1.80E-01	0.00E+00	1.80E-01
K-40	<6.29E-01	0.00E+00	6.29E-01

Sample ID: 297325 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.54E-02	0.00E+00	2.54E-02
Cs-134	<1.73E-02	0.00E+00	1.73E-02
Cs-137	<1.80E-02	0.00E+00	1.80E-02
Be-7	<1.46E-01	0.00E+00	1.46E-01
K-40	3.47E-01	1.22E-01	7.74E-02

Sample ID: 297613 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.32E-02	0.00E+00	3.32E-02
Cs-134	<1.66E-02	0.00E+00	1.66E-02
Cs-137	<1.94E-02	0.00E+00	1.94E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	3.47E-01	2.13E-01	2.37E-01

Sample ID: 298149 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.12E-02	0.00E+00	2.12E-02
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<4.77E-03	0.00E+00	4.77E-03
Be-7	<1.38E-01	0.00E+00	1.38E-01
K-40	3.97E-01	2.54E-01	2.90E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 350503 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.09E-02	0.00E+00	2.09E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.05E-01	0.00E+00	1.05E-01
K-40	<6.34E-01	0.00E+00	6.34E-01

Sample ID: 350974 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.27E-02	0.00E+00	2.27E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.33E-01	0.00E+00	1.33E-01
K-40	<5.82E-01	0.00E+00	5.82E-01

Sample ID: 351195 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.03E-02	0.00E+00	1.03E-02
Cs-134	<1.95E-02	0.00E+00	1.95E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	5.82E-01	2.99E-01	3.03E-01

Sample ID: 351601 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.11E-02	0.00E+00	2.11E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<2.31E-02	0.00E+00	2.31E-02
Be-7	<1.19E-01	0.00E+00	1.19E-01
K-40	5.05E-01	2.49E-01	8.05E-02

Sample ID: 353415 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.10E-02	0.00E+00	2.10E-02
Cs-134	<2.77E-02	0.00E+00	2.77E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	5.65E-01	2.64E-01	8.06E-02

Sample ID: 354038 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.56E-02	0.00E+00	1.56E-02
Cs-134	<1.99E-02	0.00E+00	1.99E-02
Cs-137	<1.43E-02	0.00E+00	1.43E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	3.77E-01	2.26E-01	2.40E-01

Sample ID: 354432 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.21E-02	0.00E+00	2.21E-02
Cs-134	<2.64E-02	0.00E+00	2.64E-02
Cs-137	<1.51E-02	0.00E+00	1.51E-02
Be-7	<1.65E-01	0.00E+00	1.65E-01
K-40	4.81E-01	2.82E-01	2.70E-01

Sample ID: 354753 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.61E-02	0.00E+00	1.61E-02
Cs-134	<1.56E-02	0.00E+00	1.56E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	<6.53E-01	0.00E+00	6.53E-01

Sample ID: 355137 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.94E-03	0.00E+00	3.94E-03
Cs-134	<1.94E-02	0.00E+00	1.94E-02
Cs-137	<1.59E-02	0.00E+00	1.59E-02
Be-7	<1.29E-01	0.00E+00	1.29E-01
K-40	4.31E-01	2.84E-01	3.61E-01

Sample ID: 355624 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.25E-02	0.00E+00	2.25E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<8.11E-02	0.00E+00	8.11E-02
K-40	<6.69E-01	0.00E+00	6.69E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 356478 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.10E-02	0.00E+00	2.10E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<2.30E-02	0.00E+00	2.30E-02
Be-7	<1.32E-01	0.00E+00	1.32E-01
K-40	6.70E-01	3.08E-01	2.63E-01

Sample ID: 357028 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.83E-02	0.00E+00	1.83E-02
Cs-134	<2.12E-02	0.00E+00	2.12E-02
Cs-137	<1.90E-02	0.00E+00	1.90E-02
Be-7	<1.19E-01	0.00E+00	1.19E-01
K-40	6.54E-01	2.84E-01	8.05E-02

Sample ID: 358036 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.53E-02	0.00E+00	2.53E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	<5.79E-01	0.00E+00	5.79E-01

Sample ID: 358646 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.85E-02	0.00E+00	1.85E-02
Cs-134	<1.04E-02	0.00E+00	1.04E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.54E-01	0.00E+00	1.54E-01
K-40	3.01E-01	2.07E-01	2.12E-01

Sample ID: 359314 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.78E-02	0.00E+00	1.78E-02
Cs-134	<1.30E-02	0.00E+00	1.30E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.18E-01	0.00E+00	1.18E-01
K-40	<5.57E-01	0.00E+00	5.57E-01

Sample ID: 360015 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.26E-02	0.00E+00	3.26E-02
Cs-134	<1.53E-02	0.00E+00	1.53E-02
Cs-137	<2.13E-02	0.00E+00	2.13E-02
Be-7	<1.60E-01	0.00E+00	1.60E-01
K-40	5.77E-01	3.06E-01	3.26E-01

Sample ID: 360700 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.52E-02	0.00E+00	1.52E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<1.90E-02	0.00E+00	1.90E-02
Be-7	<1.31E-01	0.00E+00	1.31E-01
K-40	5.72E-01	2.97E-01	3.01E-01

Sample ID: 361564 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.97E-02	0.00E+00	1.97E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	<6.00E-01	0.00E+00	5.99E-01

Sample ID: 361944 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.20E-02	0.00E+00	3.20E-02
Cs-134	<1.19E-02	0.00E+00	1.19E-02
Cs-137	<1.28E-02	0.00E+00	1.28E-02
Be-7	<1.22E-01	0.00E+00	1.22E-01
K-40	4.81E-01	2.53E-01	2.73E-01

Sample ID: 362768 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.52E-02	0.00E+00	1.52E-02
Cs-134	<8.57E-03	0.00E+00	8.57E-03
Cs-137	<9.32E-03	0.00E+00	9.32E-03
Be-7	<8.40E-02	0.00E+00	8.40E-02
K-40	4.06E-01	1.46E-01	3.34E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID: 363511 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<9.15E-03	0.00E+00	9.15E-03
Cs-134	<8.28E-03	0.00E+00	8.28E-03
Cs-137	<1.43E-02	0.00E+00	1.43E-02
Be-7	<7.16E-02	0.00E+00	7.16E-02
K-40	4.98E-01	1.88E-01	1.58E-01

Sample ID: 363960 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.08E-02	0.00E+00	1.08E-02
Cs-134	<1.20E-02	0.00E+00	1.20E-02
Cs-137	<1.36E-02	0.00E+00	1.36E-02
Be-7	<7.08E-02	0.00E+00	7.08E-02
K-40	2.94E-01	1.97E-01	2.80E-01

Sample ID: 364494 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.14E-02	0.00E+00	3.14E-02
Cs-134	<1.26E-02	0.00E+00	1.26E-02
Cs-137	<1.32E-02	0.00E+00	1.32E-02
Be-7	<1.23E-01	0.00E+00	1.23E-01
K-40	6.37E-01	2.36E-01	1.92E-01

Sample Point 103 [INDICATOR - NE @ 4.2 miles]

Sample ID: 280631 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.87E-02	0.00E+00	2.87E-02
Cs-134	<1.96E-02	0.00E+00	1.96E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.84E-01	0.00E+00	1.84E-01
K-40	<5.86E-01	0.00E+00	5.86E-01

Sample ID: 280804 **Sample Dates: 1/6/2014 - 1/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.85E-02	0.00E+00	1.85E-02
Cs-134	<1.45E-02	0.00E+00	1.45E-02
Cs-137	<2.00E-02	0.00E+00	2.00E-02
Be-7	<1.61E-01	0.00E+00	1.61E-01
K-40	3.86E-01	1.37E-01	3.23E-01

Sample ID: 281163 **Sample Dates: 1/13/2014 - 1/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.56E-02	0.00E+00	2.56E-02
Cs-134	<1.87E-02	0.00E+00	1.87E-02
Cs-137	<1.89E-02	0.00E+00	1.89E-02
Be-7	<1.64E-01	0.00E+00	1.64E-01
K-40	4.58E-01	1.14E-01	3.01E-01

Sample ID: 281484 **Sample Dates: 1/20/2014 - 1/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.18E-02	0.00E+00	1.18E-02
Cs-134	<9.33E-03	0.00E+00	9.33E-03
Cs-137	<9.71E-03	0.00E+00	9.71E-03
Be-7	<5.90E-02	0.00E+00	5.90E-02
K-40	4.87E-01	8.33E-02	1.00E-01

Sample ID: 282107 **Sample Dates: 1/27/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.74E-02	0.00E+00	2.74E-02
Cs-134	<2.08E-02	0.00E+00	2.08E-02
Cs-137	<2.39E-02	0.00E+00	2.39E-02
Be-7	<9.54E-02	0.00E+00	9.54E-02
K-40	<5.32E-01	0.00E+00	5.32E-01

Sample ID: 282919 **Sample Dates: 2/3/2014 - 2/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<9.72E-03	0.00E+00	9.72E-03
Cs-134	<1.26E-02	0.00E+00	1.26E-02
Cs-137	<1.23E-02	0.00E+00	1.23E-02
Be-7	<8.38E-02	0.00E+00	8.38E-02
K-40	<4.64E-01	0.00E+00	4.64E-01

Sample ID: 283366 **Sample Dates: 2/10/2014 - 2/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.02E-02	0.00E+00	1.02E-02
Cs-134	<7.97E-03	0.00E+00	7.97E-03
Cs-137	<8.97E-03	0.00E+00	8.97E-03
Be-7	<6.90E-02	0.00E+00	6.90E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	283366	Sample Dates: 2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error [1]	LLD
			K-40	6.54E-01	8.82E-02	3.21E-02
Sample ID:	**284533**	**Sample Dates: 2/17/2014 - 2/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.50E-02	0.00E+00	2.50E-02
			Cs-134	<1.75E-02	0.00E+00	1.75E-02
			Cs-137	<2.37E-02	0.00E+00	2.37E-02
			Be-7	<1.20E-01	0.00E+00	1.20E-01
			K-40	5.73E-01	1.28E-01	2.73E-01
Sample ID:	**285094**	**Sample Dates: 2/24/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.96E-02	0.00E+00	1.96E-02
			Cs-134	<1.74E-02	0.00E+00	1.74E-02
			Cs-137	<2.39E-02	0.00E+00	2.39E-02
			Be-7	<1.10E-01	0.00E+00	1.10E-01
			K-40	2.50E-01	1.13E-01	2.70E-01
Sample ID:	**285699**	**Sample Dates: 3/3/2014 - 3/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.07E-02	0.00E+00	1.07E-02
			Cs-134	<8.62E-03	0.00E+00	8.62E-03
			Cs-137	<6.91E-03	0.00E+00	6.91E-03
			Be-7	<5.86E-02	0.00E+00	5.86E-02
			K-40	5.44E-01	8.86E-02	1.08E-01
Sample ID:	**286203**	**Sample Dates: 3/10/2014 - 3/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.78E-02	0.00E+00	1.78E-02
			Cs-134	<1.65E-02	0.00E+00	1.65E-02
			Cs-137	<2.05E-02	0.00E+00	2.05E-02
			Be-7	<1.49E-01	0.00E+00	1.49E-01
			K-40	<6.07E-01	0.00E+00	6.07E-01
Sample ID:	**287088**	**Sample Dates: 3/17/2014 - 3/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<7.44E-03	0.00E+00	7.44E-03
			Cs-134	<9.98E-03	0.00E+00	9.98E-03
			Cs-137	<1.01E-02	0.00E+00	1.01E-02
			Be-7	<7.13E-02	0.00E+00	7.13E-02
			K-40	5.24E-01	8.51E-02	1.25E-01
Sample ID:	**288339**	**Sample Dates: 3/24/2014 - 3/31/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.49E-02	0.00E+00	1.49E-02
			Cs-134	<2.38E-02	0.00E+00	2.38E-02
			Cs-137	<1.77E-02	0.00E+00	1.77E-02
			Be-7	<1.47E-01	0.00E+00	1.47E-01
			K-40	4.29E-01	1.43E-01	2.48E-01
Sample ID:	**289063**	**Sample Dates: 3/31/2014 - 4/7/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.53E-02	0.00E+00	1.53E-02
			Cs-134	<1.44E-02	0.00E+00	1.44E-02
			Cs-137	<1.81E-02	0.00E+00	1.81E-02
			Be-7	<1.19E-01	0.00E+00	1.19E-01
			K-40	4.84E-01	1.08E-01	6.54E-02
Sample ID:	**289449**	**Sample Dates: 4/7/2014 - 4/14/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.31E-02	0.00E+00	1.31E-02
			Cs-134	<1.88E-02	0.00E+00	1.88E-02
			Cs-137	<1.23E-02	0.00E+00	1.23E-02
			Be-7	<1.47E-01	0.00E+00	1.47E-01
			K-40	3.44E-01	9.92E-02	3.00E-01
Sample ID:	**289859**	**Sample Dates: 4/14/2014 - 4/21/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.36E-02	0.00E+00	2.36E-02
			Cs-134	<2.27E-02	0.00E+00	2.27E-02
			Cs-137	<2.73E-02	0.00E+00	2.73E-02
			Be-7	<1.65E-01	0.00E+00	1.65E-01
			K-40	5.40E-01	1.24E-01	3.02E-01
Sample ID:	**291464**	**Sample Dates: 4/21/2014 - 4/28/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.95E-02	0.00E+00	1.95E-02
			Cs-134	<1.71E-02	0.00E+00	1.71E-02
			Cs-137	<2.76E-02	0.00E+00	2.76E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 291464 **Sample Dates: 4/21/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<1.53E-01	0.00E+00	1.53E-01
K-40	5.10E-01	1.20E-01	7.66E-02

Sample ID: 292758 **Sample Dates: 4/28/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.09E-02	0.00E+00	1.09E-02
Cs-134	<8.73E-03	0.00E+00	8.73E-03
Cs-137	<9.52E-03	0.00E+00	9.52E-03
Be-7	<5.64E-02	0.00E+00	5.64E-02
K-40	4.58E-01	8.21E-02	1.07E-01

Sample ID: 293020 **Sample Dates: 5/5/2014 - 5/12/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.46E-02	0.00E+00	1.46E-02
Cs-134	<7.14E-03	0.00E+00	7.14E-03
Cs-137	<1.04E-02	0.00E+00	1.04E-02
Be-7	<9.60E-02	0.00E+00	9.60E-02
K-40	<4.65E-01	0.00E+00	4.65E-01

Sample ID: 294651 **Sample Dates: 5/12/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.62E-02	0.00E+00	1.62E-02
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<1.57E-02	0.00E+00	1.57E-02
Be-7	<7.53E-02	0.00E+00	7.53E-02
K-40	4.35E-01	1.40E-01	7.69E-02

Sample ID: 295160 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.05E-02	0.00E+00	2.05E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<1.34E-02	0.00E+00	1.34E-02
Be-7	<8.77E-02	0.00E+00	8.77E-02
K-40	4.20E-01	1.02E-01	1.86E-01

Sample ID: 295421 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.53E-02	0.00E+00	2.53E-02
Cs-134	<2.05E-02	0.00E+00	2.05E-02
Cs-137	<2.47E-02	0.00E+00	2.47E-02
Be-7	<1.89E-01	0.00E+00	1.89E-01
K-40	<6.96E-01	0.00E+00	6.96E-01

Sample ID: 295936 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.69E-02	0.00E+00	1.69E-02
Cs-134	<9.84E-03	0.00E+00	9.84E-03
Cs-137	<2.01E-02	0.00E+00	2.01E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	<5.41E-01	0.00E+00	5.41E-01

Sample ID: 296181 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.45E-02	0.00E+00	2.45E-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	<1.54E-01	0.00E+00	1.54E-01
K-40	2.99E-01	1.21E-01	3.52E-01

Sample ID: 296702 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.06E-02	0.00E+00	2.06E-02
Cs-134	<1.58E-02	0.00E+00	1.58E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.25E-01	0.00E+00	1.25E-01
K-40	2.86E-01	1.38E-01	7.62E-02

Sample ID: 296929 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.66E-02	0.00E+00	1.66E-02
Cs-134	<1.18E-02	0.00E+00	1.18E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.14E-01	0.00E+00	1.14E-01
K-40	3.75E-01	1.14E-01	6.43E-02

Sample ID: 297326 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.00E-02	0.00E+00	2.00E-02
Cs-134	<1.40E-02	0.00E+00	1.40E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 297326 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<2.18E-02	0.00E+00	2.18E-02
Be-7	<1.78E-01	0.00E+00	1.78E-01
K-40	5.14E-01	1.21E-01	2.59E-01

Sample ID: 297614 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.54E-02	0.00E+00	2.54E-02
Cs-134	<9.78E-03	0.00E+00	9.78E-03
Cs-137	<1.29E-02	0.00E+00	1.29E-02
Be-7	<1.16E-01	0.00E+00	1.16E-01
K-40	3.98E-01	1.54E-01	3.85E-02

Sample ID: 298150 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.75E-02	0.00E+00	2.75E-02
Cs-134	<1.84E-02	0.00E+00	1.84E-02
Cs-137	<1.62E-02	0.00E+00	1.62E-02
Be-7	<1.36E-01	0.00E+00	1.36E-01
K-40	2.94E-01	1.88E-01	7.97E-02

Sample ID: 350504 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.47E-02	0.00E+00	2.47E-02
Cs-134	<1.54E-02	0.00E+00	1.54E-02
Cs-137	<1.31E-02	0.00E+00	1.31E-02
Be-7	<1.22E-01	0.00E+00	1.22E-01
K-40	2.64E-01	2.07E-01	2.50E-01

Sample ID: 350975 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.12E-02	0.00E+00	2.12E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<1.90E-02	0.00E+00	1.90E-02
Be-7	<8.11E-02	0.00E+00	8.11E-02
K-40	4.69E-01	2.99E-01	3.76E-01

Sample ID: 351196 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.17E-02	0.00E+00	1.17E-02
Cs-134	<9.57E-03	0.00E+00	9.57E-03
Cs-137	<1.20E-02	0.00E+00	1.20E-02
Be-7	<5.15E-02	0.00E+00	5.15E-02
K-40	5.21E-01	1.75E-01	1.28E-01

Sample ID: 351602 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.51E-02	0.00E+00	1.51E-02
Cs-137	<1.62E-02	0.00E+00	1.62E-02
Be-7	<1.18E-01	0.00E+00	1.18E-01
K-40	3.62E-01	3.07E-01	4.51E-01

Sample ID: 353416 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.23E-02	0.00E+00	2.23E-02
Cs-134	<2.79E-02	0.00E+00	2.79E-02
Cs-137	<2.14E-02	0.00E+00	2.14E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	3.90E-01	2.75E-01	3.55E-01

Sample ID: 354040 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.39E-02	0.00E+00	1.39E-02
Cs-134	<1.71E-02	0.00E+00	1.71E-02
Cs-137	<1.43E-02	0.00E+00	1.43E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	3.78E-01	2.24E-01	2.34E-01

Sample ID: 354433 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.21E-02	0.00E+00	2.21E-02
Cs-134	<1.81E-02	0.00E+00	1.81E-02
Cs-137	<1.91E-02	0.00E+00	1.91E-02
Be-7	<1.36E-01	0.00E+00	1.36E-01
K-40	8.09E-01	3.72E-01	3.37E-01

Sample ID: 354754 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.68E-02	0.00E+00	2.68E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 354754 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<2.25E-02	0.00E+00	2.25E-02
Cs-137	<1.88E-02	0.00E+00	1.88E-02
Be-7	<1.31E-01	0.00E+00	1.31E-01
K-40	<7.09E-01	0.00E+00	7.09E-01

Sample ID: 355139 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.25E-02	0.00E+00	2.25E-02
Cs-134	<2.00E-02	0.00E+00	2.00E-02
Cs-137	<1.91E-02	0.00E+00	1.91E-02
Be-7	<8.15E-02	0.00E+00	8.15E-02
K-40	4.06E-01	2.52E-01	2.73E-01

Sample ID: 355625 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.49E-02	0.00E+00	2.49E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.18E-01	0.00E+00	1.18E-01
K-40	5.72E-01	2.97E-01	3.00E-01

Sample ID: 356479 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.23E-02	0.00E+00	2.23E-02
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<2.31E-02	0.00E+00	2.31E-02
Be-7	<1.32E-01	0.00E+00	1.32E-01
K-40	<4.71E-01	0.00E+00	4.71E-01

Sample ID: 357029 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.38E-02	0.00E+00	2.38E-02
Cs-134	<1.83E-02	0.00E+00	1.83E-02
Cs-137	<2.28E-02	0.00E+00	2.28E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	4.72E-01	2.53E-01	2.16E-01

Sample ID: 358037 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.99E-02	0.00E+00	1.99E-02
Cs-134	<1.33E-02	0.00E+00	1.33E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.92E-01	0.00E+00	1.92E-01
K-40	3.62E-01	2.11E-01	8.17E-02

Sample ID: 358647 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.85E-02	0.00E+00	1.85E-02
Cs-134	<1.69E-02	0.00E+00	1.69E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	<5.18E-01	0.00E+00	5.18E-01

Sample ID: 359316 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.59E-02	0.00E+00	1.59E-02
Cs-134	<1.68E-02	0.00E+00	1.68E-02
Cs-137	<1.88E-02	0.00E+00	1.88E-02
Be-7	<1.17E-01	0.00E+00	1.17E-01
K-40	6.32E-01	3.83E-01	5.13E-01

Sample ID: 360016 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<4.28E-03	0.00E+00	4.28E-03
Cs-134	<3.00E-03	0.00E+00	3.00E-03
Cs-137	<3.58E-03	0.00E+00	3.58E-03
Be-7	<2.52E-02	0.00E+00	2.52E-02
K-40	4.64E-01	7.70E-02	5.70E-02

Sample ID: 360701 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.26E-02	0.00E+00	2.26E-02
Cs-134	<3.86E-03	0.00E+00	3.86E-03
Cs-137	<1.92E-02	0.00E+00	1.92E-02
Be-7	<1.56E-01	0.00E+00	1.56E-01
K-40	5.03E-01	2.71E-01	2.54E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 103 [INDICATOR - NE @ 4.2 miles]

Sample ID: 361565 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.50E-02	0.00E+00	1.50E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<2.32E-02	0.00E+00	2.32E-02
Be-7	<8.03E-02	0.00E+00	8.03E-02
K-40	4.96E-01	2.86E-01	3.18E-01

Sample ID: 361945 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.19E-02	0.00E+00	3.19E-02
Cs-134	<1.19E-02	0.00E+00	1.19E-02
Cs-137	<1.65E-02	0.00E+00	1.65E-02
Be-7	<1.11E-01	0.00E+00	1.11E-01
K-40	<4.55E-01	0.00E+00	4.55E-01

Sample ID: 362769 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.91E-02	0.00E+00	1.91E-02
Cs-134	<8.03E-03	0.00E+00	8.03E-03
Cs-137	<1.27E-02	0.00E+00	1.27E-02
Be-7	<1.13E-01	0.00E+00	1.13E-01
K-40	1.54E-01	1.92E-01	3.10E-01

Sample ID: 363512 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.01E-02	0.00E+00	1.01E-02
Cs-134	<6.48E-03	0.00E+00	6.48E-03
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<5.95E-02	0.00E+00	5.95E-02
K-40	4.31E-01	2.22E-01	2.88E-01

Sample ID: 363961 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.93E-02	0.00E+00	1.93E-02
Cs-134	<1.33E-02	0.00E+00	1.33E-02
Cs-137	<2.04E-02	0.00E+00	2.04E-02
Be-7	<8.83E-02	0.00E+00	8.83E-02
K-40	5.38E-01	2.45E-01	7.29E-02

Sample ID: 364495 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.40E-02	0.00E+00	1.40E-02
Cs-134	<9.01E-03	0.00E+00	9.01E-03
Cs-137	<1.12E-02	0.00E+00	1.12E-02
Be-7	<7.70E-02	0.00E+00	7.70E-02
K-40	3.68E-01	1.70E-01	1.77E-01

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 280632 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.96E-02	0.00E+00	1.96E-02
Cs-134	<2.04E-02	0.00E+00	2.04E-02
Cs-137	<2.00E-02	0.00E+00	2.00E-02
Be-7	<1.32E-01	0.00E+00	1.32E-01
K-40	<6.42E-01	0.00E+00	6.42E-01

Sample ID: 280805 **Sample Dates: 1/6/2014 - 1/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.92E-02	0.00E+00	1.92E-02
Cs-134	<1.79E-02	0.00E+00	1.79E-02
Cs-137	<1.73E-02	0.00E+00	1.73E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	<6.13E-01	0.00E+00	6.13E-01

Sample ID: 281164 **Sample Dates: 1/13/2014 - 1/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.04E-02	0.00E+00	2.04E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<1.80E-02	0.00E+00	1.80E-02
Be-7	<1.35E-01	0.00E+00	1.35E-01
K-40	5.43E-01	1.25E-01	3.36E-01

Sample ID: 281485 **Sample Dates: 1/20/2014 - 1/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.13E-02	0.00E+00	1.13E-02
Cs-134	<1.23E-02	0.00E+00	1.23E-02
Cs-137	<1.07E-02	0.00E+00	1.07E-02
Be-7	<9.38E-02	0.00E+00	9.38E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
281485	1/20/2014 - 1/27/2014	K-40	6.00E-01	1.13E-01	5.79E-02
282108	1/27/2014 - 2/3/2014	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	5.26E-01	1.21E-01	2.01E-01
282920	2/3/2014 - 2/10/2014	I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<3.65E-03	0.00E+00	3.65E-03
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.99E-01	1.12E-01	1.76E-01
283367	2/10/2014 - 2/17/2014	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	3.23E-01	1.33E-01	2.55E-01
284534	2/17/2014 - 2/24/2014	I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<7.31E-02	0.00E+00	7.31E-02
		K-40	3.30E-01	9.82E-02	1.67E-01
285095	2/24/2014 - 3/3/2014	I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	4.61E-01	1.35E-01	2.09E-01
285700	3/3/2014 - 3/10/2014	I-131	<1.27E-02	0.00E+00	1.27E-02
		Cs-134	<8.83E-03	0.00E+00	8.83E-03
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<8.40E-02	0.00E+00	8.40E-02
		K-40	<3.55E-01	0.00E+00	3.55E-01
286204	3/10/2014 - 3/17/2014	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	4.18E-01	1.34E-01	2.58E-01
287089	3/17/2014 - 3/24/2014	I-131	<1.01E-02	0.00E+00	1.01E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<7.07E-02	0.00E+00	7.07E-02
		K-40	3.66E-01	8.88E-02	5.82E-02
288340	3/24/2014 - 3/31/2014	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	3.65E-01	1.44E-01	2.06E-01
289064	3/31/2014 - 4/7/2014	I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Sample ID: 289064 **Sample Dates: 3/31/2014 - 4/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<1.63E-01	0.00E+00	1.63E-01
K-40	<6.67E-01	0.00E+00	6.67E-01

Sample ID: 289450 **Sample Dates: 4/7/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.35E-02	0.00E+00	2.35E-02
Cs-134	<1.73E-02	0.00E+00	1.73E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.23E-01	0.00E+00	1.23E-01
K-40	4.54E-01	1.13E-01	2.04E-01

Sample ID: 289860 **Sample Dates: 4/14/2014 - 4/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<8.99E-03	0.00E+00	8.99E-03
Cs-134	<9.06E-03	0.00E+00	9.06E-03
Cs-137	<1.02E-02	0.00E+00	1.02E-02
Be-7	<7.81E-02	0.00E+00	7.81E-02
K-40	5.05E-01	7.80E-02	1.10E-01

Sample ID: 291465 **Sample Dates: 4/21/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.32E-02	0.00E+00	2.32E-02
Cs-134	<1.39E-02	0.00E+00	1.39E-02
Cs-137	<1.49E-02	0.00E+00	1.49E-02
Be-7	<1.42E-01	0.00E+00	1.42E-01
K-40	3.61E-01	1.00E-01	2.65E-01

Sample ID: 292759 **Sample Dates: 4/28/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.39E-02	0.00E+00	1.39E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.48E-02	0.00E+00	1.48E-02
Be-7	<8.99E-02	0.00E+00	8.99E-02
K-40	4.10E-01	1.33E-01	1.79E-01

Sample ID: 293021 **Sample Dates: 5/5/2014 - 5/12/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.18E-02	0.00E+00	2.18E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<2.40E-02	0.00E+00	2.40E-02
Be-7	<1.82E-01	0.00E+00	1.82E-01
K-40	7.34E-01	1.73E-01	3.30E-01

Sample ID: 294652 **Sample Dates: 5/12/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.50E-02	0.00E+00	2.50E-02
Cs-134	<1.23E-02	0.00E+00	1.23E-02
Cs-137	<2.23E-02	0.00E+00	2.23E-02
Be-7	<1.47E-01	0.00E+00	1.47E-01
K-40	6.18E-01	1.57E-01	2.11E-01

Sample ID: 295161 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.02E-02	0.00E+00	1.02E-02
Cs-134	<1.07E-02	0.00E+00	1.07E-02
Cs-137	<1.38E-02	0.00E+00	1.38E-02
Be-7	<1.46E-01	0.00E+00	1.46E-01
K-40	<4.65E-01	0.00E+00	4.65E-01

Sample ID: 295422 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.94E-02	0.00E+00	2.94E-02
Cs-134	<2.04E-02	0.00E+00	2.04E-02
Cs-137	<1.80E-02	0.00E+00	1.80E-02
Be-7	<2.10E-01	0.00E+00	2.10E-01
K-40	5.68E-01	1.38E-01	3.50E-01

Sample ID: 295937 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.23E-02	0.00E+00	2.23E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<2.26E-02	0.00E+00	2.26E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	<5.42E-01	0.00E+00	5.42E-01

Sample ID: 296182 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.64E-02	0.00E+00	1.64E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 296182 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<2.22E-02	0.00E+00	2.22E-02
Be-7	<1.46E-01	0.00E+00	1.46E-01
K-40	6.15E-01	1.34E-01	2.20E-01

Sample ID: 296703 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.37E-02	0.00E+00	2.37E-02
Cs-134	<1.19E-02	0.00E+00	1.19E-02
Cs-137	<1.69E-02	0.00E+00	1.69E-02
Be-7	<1.08E-01	0.00E+00	1.08E-01
K-40	<4.81E-01	0.00E+00	4.81E-01

Sample ID: 296930 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.15E-02	0.00E+00	1.15E-02
Cs-134	<7.19E-03	0.00E+00	7.19E-03
Cs-137	<1.22E-02	0.00E+00	1.22E-02
Be-7	<7.47E-02	0.00E+00	7.47E-02
K-40	<4.08E-01	0.00E+00	4.08E-01

Sample ID: 297327 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.36E-02	0.00E+00	2.36E-02
Cs-134	<1.96E-02	0.00E+00	1.96E-02
Cs-137	<2.77E-02	0.00E+00	2.77E-02
Be-7	<9.59E-02	0.00E+00	9.59E-02
K-40	2.61E-01	1.15E-01	2.60E-01

Sample ID: 297615 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.38E-02	0.00E+00	2.38E-02
Cs-134	<1.21E-02	0.00E+00	1.21E-02
Cs-137	<1.03E-02	0.00E+00	1.03E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	4.53E-01	1.95E-01	2.09E-01

Sample ID: 298151 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.45E-02	0.00E+00	2.45E-02
Cs-134	<1.63E-02	0.00E+00	1.63E-02
Cs-137	<1.57E-02	0.00E+00	1.57E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	3.71E-01	2.60E-01	3.35E-01

Sample ID: 350505 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.33E-02	0.00E+00	2.33E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<2.20E-02	0.00E+00	2.20E-02
Be-7	<1.40E-01	0.00E+00	1.40E-01
K-40	5.21E-01	2.77E-01	2.49E-01

Sample ID: 350976 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.10E-02	0.00E+00	2.10E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.29E-02	0.00E+00	1.29E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	3.70E-01	2.42E-01	2.74E-01

Sample ID: 351197 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.54E-02	0.00E+00	2.54E-02
Cs-134	<1.04E-02	0.00E+00	1.04E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.73E-01	0.00E+00	1.73E-01
K-40	7.45E-01	3.05E-01	8.08E-02

Sample ID: 351603 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.27E-02	0.00E+00	2.27E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<2.06E-02	0.00E+00	2.06E-02
Be-7	<1.40E-01	0.00E+00	1.40E-01
K-40	4.62E-01	2.34E-01	7.82E-02

Sample ID: 353417 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.71E-02	0.00E+00	1.71E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 353417 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<2.85E-02	0.00E+00	2.85E-02
Cs-137	<1.69E-02	0.00E+00	1.69E-02
Be-7	<1.47E-01	0.00E+00	1.47E-01
K-40	5.21E-01	2.56E-01	8.30E-02

Sample ID: 354042 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<9.43E-03	0.00E+00	9.43E-03
Cs-134	<1.35E-02	0.00E+00	1.35E-02
Cs-137	<2.31E-02	0.00E+00	2.31E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	4.92E-01	2.30E-01	7.02E-02

Sample ID: 354434 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.88E-02	0.00E+00	1.88E-02
Cs-134	<2.28E-02	0.00E+00	2.28E-02
Cs-137	<2.22E-02	0.00E+00	2.22E-02
Be-7	<1.52E-01	0.00E+00	1.52E-01
K-40	5.39E-01	3.09E-01	3.19E-01

Sample ID: 354755 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.54E-02	0.00E+00	1.54E-02
Cs-134	<2.46E-02	0.00E+00	2.46E-02
Cs-137	<1.59E-02	0.00E+00	1.59E-02
Be-7	<7.86E-02	0.00E+00	7.86E-02
K-40	1.78E-01	2.00E-01	3.08E-01

Sample ID: 355140 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.39E-02	0.00E+00	1.39E-02
Cs-134	<1.72E-02	0.00E+00	1.72E-02
Cs-137	<1.32E-02	0.00E+00	1.32E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	5.14E-01	2.53E-01	8.19E-02

Sample ID: 355626 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.57E-02	0.00E+00	2.57E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<1.90E-02	0.00E+00	1.90E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	4.87E-01	2.89E-01	3.34E-01

Sample ID: 356480 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.90E-02	0.00E+00	1.90E-02
Cs-134	<3.77E-03	0.00E+00	3.77E-03
Cs-137	<1.28E-02	0.00E+00	1.28E-02
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	4.40E-01	2.30E-01	7.95E-02

Sample ID: 357030 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.31E-02	0.00E+00	2.31E-02
Cs-134	<1.29E-02	0.00E+00	1.29E-02
Cs-137	<4.68E-03	0.00E+00	4.68E-03
Be-7	<1.16E-01	0.00E+00	1.16E-01
K-40	2.68E-01	2.73E-01	4.20E-01

Sample ID: 358038 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.10E-02	0.00E+00	2.10E-02
Cs-134	<1.73E-02	0.00E+00	1.73E-02
Cs-137	<1.67E-02	0.00E+00	1.67E-02
Be-7	<1.66E-01	0.00E+00	1.66E-01
K-40	6.06E-01	2.76E-01	8.21E-02

Sample ID: 358648 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.06E-02	0.00E+00	2.06E-02
Cs-134	<1.37E-02	0.00E+00	1.37E-02
Cs-137	<1.98E-02	0.00E+00	1.98E-02
Be-7	<1.37E-01	0.00E+00	1.37E-01
K-40	7.58E-01	3.39E-01	2.98E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 359318 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.76E-02	0.00E+00	1.76E-02
Cs-134	<1.98E-02	0.00E+00	1.98E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.18E-01	0.00E+00	1.18E-01
K-40	3.75E-01	3.02E-01	4.32E-01

Sample ID: 360017 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.34E-02	0.00E+00	3.34E-02
Cs-134	<1.02E-02	0.00E+00	1.02E-02
Cs-137	<1.27E-02	0.00E+00	1.27E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	4.00E-01	2.75E-01	3.55E-01

Sample ID: 360702 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.73E-02	0.00E+00	1.73E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<2.74E-02	0.00E+00	2.74E-02
Be-7	<1.69E-01	0.00E+00	1.69E-01
K-40	4.61E-01	2.41E-01	8.33E-02

Sample ID: 361566 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.83E-02	0.00E+00	1.83E-02
Cs-134	<2.00E-02	0.00E+00	2.00E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<8.05E-02	0.00E+00	8.05E-02
K-40	4.66E-01	2.63E-01	2.62E-01

Sample ID: 361946 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.38E-02	0.00E+00	3.38E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<2.18E-02	0.00E+00	2.18E-02
Be-7	<1.37E-01	0.00E+00	1.37E-01
K-40	<6.15E-01	0.00E+00	6.15E-01

Sample ID: 362770 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.58E-02	0.00E+00	1.58E-02
Cs-134	<8.74E-03	0.00E+00	8.74E-03
Cs-137	<1.09E-02	0.00E+00	1.09E-02
Be-7	<9.01E-02	0.00E+00	9.01E-02
K-40	<3.02E-01	0.00E+00	3.02E-01

Sample ID: 363513 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.23E-02	0.00E+00	1.23E-02
Cs-134	<6.30E-03	0.00E+00	6.30E-03
Cs-137	<1.59E-02	0.00E+00	1.59E-02
Be-7	<8.06E-02	0.00E+00	8.06E-02
K-40	3.77E-01	1.66E-01	1.58E-01

Sample ID: 363962 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.70E-02	0.00E+00	1.70E-02
Cs-134	<1.03E-02	0.00E+00	1.03E-02
Cs-137	<2.08E-02	0.00E+00	2.08E-02
Be-7	<1.11E-01	0.00E+00	1.11E-01
K-40	3.47E-01	2.29E-01	2.85E-01

Sample ID: 364496 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.72E-02	0.00E+00	3.72E-02
Cs-134	<1.26E-02	0.00E+00	1.26E-02
Cs-137	<1.44E-02	0.00E+00	1.44E-02
Be-7	<1.16E-01	0.00E+00	1.16E-01
K-40	5.39E-01	2.47E-01	2.87E-01

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 280633 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.98E-02	0.00E+00	1.98E-02
Cs-134	<1.44E-02	0.00E+00	1.44E-02
Cs-137	<2.00E-02	0.00E+00	2.00E-02
Be-7	<1.57E-01	0.00E+00	1.57E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	280633	Sample Dates: 12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error [1]	LLD
			K-40	4.71E-01	1.14E-01	2.07E-01
Sample ID:	**280806**	**Sample Dates: 1/6/2014 - 1/13/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.38E-02	0.00E+00	2.38E-02
			Cs-134	<1.65E-02	0.00E+00	1.65E-02
			Cs-137	<2.37E-02	0.00E+00	2.37E-02
			Be-7	<1.39E-01	0.00E+00	1.39E-01
			K-40	<5.35E-01	0.00E+00	5.35E-01
Sample ID:	**281165**	**Sample Dates: 1/13/2014 - 1/20/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.28E-02	0.00E+00	2.28E-02
			Cs-134	<1.67E-02	0.00E+00	1.67E-02
			Cs-137	<2.01E-02	0.00E+00	2.01E-02
			Be-7	<1.51E-01	0.00E+00	1.51E-01
			K-40	4.68E-01	1.44E-01	3.01E-01
Sample ID:	**281486**	**Sample Dates: 1/20/2014 - 1/27/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.75E-02	0.00E+00	1.75E-02
			Cs-134	<1.37E-02	0.00E+00	1.37E-02
			Cs-137	<1.25E-02	0.00E+00	1.25E-02
			Be-7	<1.22E-01	0.00E+00	1.22E-01
			K-40	7.25E-01	1.35E-01	2.34E-01
Sample ID:	**282109**	**Sample Dates: 1/27/2014 - 2/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.64E-02	0.00E+00	1.64E-02
			Cs-134	<1.98E-02	0.00E+00	1.98E-02
			Cs-137	<2.17E-02	0.00E+00	2.17E-02
			Be-7	<1.31E-01	0.00E+00	1.31E-01
			K-40	4.19E-01	1.08E-01	3.30E-01
Sample ID:	**282921**	**Sample Dates: 2/3/2014 - 2/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.18E-02	0.00E+00	2.18E-02
			Cs-134	<2.20E-02	0.00E+00	2.20E-02
			Cs-137	<2.19E-02	0.00E+00	2.19E-02
			Be-7	<1.64E-01	0.00E+00	1.64E-01
			K-40	5.91E-01	1.53E-01	7.97E-02
Sample ID:	**283368**	**Sample Dates: 2/10/2014 - 2/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.44E-02	0.00E+00	1.44E-02
			Cs-134	<1.87E-02	0.00E+00	1.87E-02
			Cs-137	<9.21E-03	0.00E+00	9.21E-03
			Be-7	<9.32E-02	0.00E+00	9.32E-02
			K-40	4.75E-01	1.37E-01	1.97E-01
Sample ID:	**284535**	**Sample Dates: 2/17/2014 - 2/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.03E-02	0.00E+00	2.03E-02
			Cs-134	<1.76E-02	0.00E+00	1.76E-02
			Cs-137	<1.90E-02	0.00E+00	1.90E-02
			Be-7	<2.82E-02	0.00E+00	2.82E-02
			K-40	3.73E-01	1.04E-01	2.16E-01
Sample ID:	**285096**	**Sample Dates: 2/24/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.96E-02	0.00E+00	1.96E-02
			Cs-134	<1.93E-02	0.00E+00	1.93E-02
			Cs-137	<1.78E-02	0.00E+00	1.78E-02
			Be-7	<1.67E-01	0.00E+00	1.67E-01
			K-40	4.56E-01	1.54E-01	2.09E-01
Sample ID:	**285701**	**Sample Dates: 3/3/2014 - 3/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.07E-02	0.00E+00	1.07E-02
			Cs-134	<1.08E-02	0.00E+00	1.08E-02
			Cs-137	<1.18E-02	0.00E+00	1.18E-02
			Be-7	<8.12E-02	0.00E+00	8.12E-02
			K-40	4.30E-01	7.72E-02	1.46E-01
Sample ID:	**286205**	**Sample Dates: 3/10/2014 - 3/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.88E-02	0.00E+00	1.88E-02
			Cs-134	<2.26E-02	0.00E+00	2.26E-02
			Cs-137	<2.05E-02	0.00E+00	2.05E-02

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13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Sample ID:	286205	Sample Dates: 3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	<1.66E-01	0.00E+00	1.66E-01
			K-40	2.00E-01	1.19E-01	2.58E-01
Sample ID:	287090	Sample Dates: 3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.28E-02	0.00E+00	1.28E-02
			Cs-134	<1.78E-02	0.00E+00	1.78E-02
			Cs-137	<1.49E-02	0.00E+00	1.49E-02
			Be-7	<1.34E-01	0.00E+00	1.34E-01
			K-40	5.01E-01	1.09E-01	1.75E-01
Sample ID:	288341	Sample Dates: 3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.37E-02	0.00E+00	2.37E-02
			Cs-134	<1.86E-02	0.00E+00	1.86E-02
			Cs-137	<1.84E-02	0.00E+00	1.84E-02
			Be-7	<1.09E-01	0.00E+00	1.09E-01
			K-40	4.73E-01	1.15E-01	2.06E-01
Sample ID:	289065	Sample Dates: 3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.85E-02	0.00E+00	1.85E-02
			Cs-134	<1.43E-02	0.00E+00	1.43E-02
			Cs-137	<1.98E-02	0.00E+00	1.98E-02
			Be-7	<1.18E-01	0.00E+00	1.18E-01
			K-40	8.35E-01	1.43E-01	1.90E-01
Sample ID:	289451	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.37E-02	0.00E+00	2.37E-02
			Cs-134	<1.87E-02	0.00E+00	1.87E-02
			Cs-137	<2.08E-02	0.00E+00	2.08E-02
			Be-7	<1.51E-01	0.00E+00	1.51E-01
			K-40	5.69E-01	1.27E-01	2.58E-01
Sample ID:	289861	Sample Dates: 4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.08E-02	0.00E+00	1.08E-02
			Cs-134	<1.08E-02	0.00E+00	1.08E-02
			Cs-137	<1.00E-02	0.00E+00	1.00E-02
			Be-7	<5.79E-02	0.00E+00	5.79E-02
			K-40	4.40E-01	9.16E-02	1.61E-01
Sample ID:	291466	Sample Dates: 4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.13E-02	0.00E+00	2.13E-02
			Cs-134	<1.93E-02	0.00E+00	1.93E-02
			Cs-137	<2.28E-02	0.00E+00	2.28E-02
			Be-7	<1.08E-01	0.00E+00	1.08E-01
			K-40	3.62E-01	1.00E-01	2.49E-01
Sample ID:	292760	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<9.32E-03	0.00E+00	9.32E-03
			Cs-134	<2.42E-03	0.00E+00	2.42E-03
			Cs-137	<1.35E-02	0.00E+00	1.35E-02
			Be-7	<8.58E-02	0.00E+00	8.58E-02
			K-40	<4.45E-01	0.00E+00	4.45E-01
Sample ID:	293022	Sample Dates: 5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<8.04E-03	0.00E+00	8.04E-03
			Cs-134	<7.98E-03	0.00E+00	7.98E-03
			Cs-137	<1.20E-02	0.00E+00	1.20E-02
			Be-7	<5.01E-02	0.00E+00	5.01E-02
			K-40	<4.44E-01	0.00E+00	4.44E-01
Sample ID:	294653	Sample Dates: 5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.10E-02	0.00E+00	2.10E-02
			Cs-134	<1.23E-02	0.00E+00	1.23E-02
			Cs-137	<1.77E-02	0.00E+00	1.77E-02
			Be-7	<1.68E-01	0.00E+00	1.68E-01
			K-40	<5.38E-01	0.00E+00	5.38E-01
Sample ID:	295162	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.69E-02	0.00E+00	1.69E-02
			Cs-134	<1.61E-02	0.00E+00	1.61E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 295162 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<1.56E-02	0.00E+00	1.56E-02
Be-7	<1.49E-01	0.00E+00	1.49E-01
K-40	3.15E-01	1.13E-01	2.82E-01

Sample ID: 295423 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.13E-02	0.00E+00	3.13E-02
Cs-134	<2.50E-02	0.00E+00	2.50E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<2.12E-01	0.00E+00	2.12E-01
K-40	<7.58E-01	0.00E+00	7.58E-01

Sample ID: 295938 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.01E-02	0.00E+00	2.01E-02
Cs-134	<1.44E-02	0.00E+00	1.44E-02
Cs-137	<2.61E-02	0.00E+00	2.61E-02
Be-7	<1.56E-01	0.00E+00	1.56E-01
K-40	<5.44E-01	0.00E+00	5.44E-01

Sample ID: 296183 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.24E-02	0.00E+00	2.24E-02
Cs-134	<1.65E-02	0.00E+00	1.65E-02
Cs-137	<2.16E-02	0.00E+00	2.16E-02
Be-7	<1.23E-01	0.00E+00	1.23E-01
K-40	<6.39E-01	0.00E+00	6.39E-01

Sample ID: 296704 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.29E-02	0.00E+00	2.29E-02
Cs-134	<1.39E-02	0.00E+00	1.39E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.28E-01	0.00E+00	1.28E-01
K-40	2.48E-01	1.50E-01	3.60E-01

Sample ID: 296931 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.57E-02	0.00E+00	2.57E-02
Cs-134	<2.16E-02	0.00E+00	2.16E-02
Cs-137	<1.77E-02	0.00E+00	1.77E-02
Be-7	<1.46E-01	0.00E+00	1.46E-01
K-40	<6.05E-01	0.00E+00	6.05E-01

Sample ID: 297328 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.80E-02	0.00E+00	1.80E-02
Cs-134	<1.55E-02	0.00E+00	1.55E-02
Cs-137	<1.99E-02	0.00E+00	1.99E-02
Be-7	<1.36E-01	0.00E+00	1.36E-01
K-40	<5.41E-01	0.00E+00	5.41E-01

Sample ID: 297616 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.68E-02	0.00E+00	3.68E-02
Cs-134	<1.22E-02	0.00E+00	1.22E-02
Cs-137	<1.07E-02	0.00E+00	1.07E-02
Be-7	<7.41E-02	0.00E+00	7.41E-02
K-40	<4.23E-01	0.00E+00	4.23E-01

Sample ID: 298152 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.46E-02	0.00E+00	2.46E-02
Cs-134	<2.05E-02	0.00E+00	2.05E-02
Cs-137	<1.25E-02	0.00E+00	1.25E-02
Be-7	<1.33E-01	0.00E+00	1.33E-01
K-40	4.48E-01	2.52E-01	2.47E-01

Sample ID: 350506 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.58E-02	0.00E+00	1.58E-02
Cs-137	<1.70E-02	0.00E+00	1.70E-02
Be-7	<1.26E-01	0.00E+00	1.26E-01
K-40	4.27E-01	2.55E-01	2.55E-01

Sample ID: 350977 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.61E-02	0.00E+00	1.61E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 350977 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<1.29E-02	0.00E+00	1.29E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	<5.79E-01	0.00E+00	5.79E-01

Sample ID: 351198 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.98E-02	0.00E+00	1.98E-02
Cs-134	<3.82E-03	0.00E+00	3.82E-03
Cs-137	<4.78E-03	0.00E+00	4.78E-03
Be-7	<1.54E-01	0.00E+00	1.54E-01
K-40	5.81E-01	2.93E-01	2.76E-01

Sample ID: 351604 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.73E-02	0.00E+00	1.73E-02
Cs-134	<1.28E-02	0.00E+00	1.28E-02
Cs-137	<1.60E-02	0.00E+00	1.60E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	5.55E-01	2.91E-01	3.01E-01

Sample ID: 353418 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.32E-02	0.00E+00	1.32E-02
Cs-134	<2.84E-02	0.00E+00	2.84E-02
Cs-137	<2.37E-02	0.00E+00	2.37E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	<5.96E-01	0.00E+00	5.96E-01

Sample ID: 354044 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.81E-02	0.00E+00	1.81E-02
Cs-134	<1.71E-02	0.00E+00	1.71E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.26E-01	0.00E+00	1.26E-01
K-40	3.77E-01	2.39E-01	2.86E-01

Sample ID: 354435 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.48E-02	0.00E+00	2.48E-02
Cs-134	<2.28E-02	0.00E+00	2.28E-02
Cs-137	<1.91E-02	0.00E+00	1.91E-02
Be-7	<1.52E-01	0.00E+00	1.52E-01
K-40	4.27E-01	3.01E-01	3.80E-01

Sample ID: 354756 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.28E-02	0.00E+00	2.28E-02
Cs-134	<2.69E-02	0.00E+00	2.69E-02
Cs-137	<2.06E-02	0.00E+00	2.06E-02
Be-7	<9.94E-02	0.00E+00	9.94E-02
K-40	<5.83E-01	0.00E+00	5.83E-01

Sample ID: 355142 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.96E-02	0.00E+00	1.96E-02
Cs-134	<1.33E-02	0.00E+00	1.33E-02
Cs-137	<1.32E-02	0.00E+00	1.32E-02
Be-7	<1.34E-01	0.00E+00	1.34E-01
K-40	6.12E-01	3.20E-01	3.45E-01

Sample ID: 355627 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.78E-02	0.00E+00	1.78E-02
Cs-134	<1.69E-02	0.00E+00	1.69E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	4.45E-01	2.33E-01	8.05E-02

Sample ID: 356482 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.06E-02	0.00E+00	2.06E-02
Cs-134	<1.68E-02	0.00E+00	1.68E-02
Cs-137	<1.62E-02	0.00E+00	1.62E-02
Be-7	<8.00E-02	0.00E+00	8.00E-02
K-40	5.88E-01	2.68E-01	7.97E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 357031 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.43E-02	0.00E+00	2.43E-02
Cs-134	<1.02E-02	0.00E+00	1.02E-02
Cs-137	<1.85E-02	0.00E+00	1.85E-02
Be-7	<1.29E-01	0.00E+00	1.29E-01
K-40	<6.37E-01	0.00E+00	6.37E-01

Sample ID: 358039 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.06E-02	0.00E+00	1.06E-02
Cs-134	<1.59E-02	0.00E+00	1.59E-02
Cs-137	<4.98E-03	0.00E+00	4.98E-03
Be-7	<1.80E-01	0.00E+00	1.80E-01
K-40	2.85E-01	2.85E-01	4.34E-01

Sample ID: 358649 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.50E-02	0.00E+00	1.50E-02
Cs-134	<1.98E-02	0.00E+00	1.98E-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	5.91E-01	2.69E-01	8.00E-02

Sample ID: 359320 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.46E-02	0.00E+00	2.46E-02
Cs-134	<1.51E-02	0.00E+00	1.51E-02
Cs-137	<1.29E-02	0.00E+00	1.29E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	4.02E-01	2.48E-01	2.66E-01

Sample ID: 360018 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.75E-02	0.00E+00	2.75E-02
Cs-134	<1.82E-02	0.00E+00	1.82E-02
Cs-137	<2.60E-02	0.00E+00	2.60E-02
Be-7	<1.33E-01	0.00E+00	1.33E-01
K-40	<4.12E-01	0.00E+00	4.12E-01

Sample ID: 360703 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.51E-02	0.00E+00	2.51E-02
Cs-134	<3.93E-03	0.00E+00	3.93E-03
Cs-137	<4.91E-03	0.00E+00	4.91E-03
Be-7	<1.58E-01	0.00E+00	1.58E-01
K-40	2.93E-01	2.79E-01	4.18E-01

Sample ID: 361567 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.59E-02	0.00E+00	1.59E-02
Cs-134	<1.12E-02	0.00E+00	1.12E-02
Cs-137	<1.47E-02	0.00E+00	1.47E-02
Be-7	<6.64E-02	0.00E+00	6.64E-02
K-40	5.82E-01	1.93E-01	4.04E-02

Sample ID: 361947 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.98E-02	0.00E+00	2.98E-02
Cs-134	<1.02E-02	0.00E+00	1.02E-02
Cs-137	<1.94E-02	0.00E+00	1.94E-02
Be-7	<6.82E-02	0.00E+00	6.82E-02
K-40	3.16E-01	2.22E-01	2.86E-01

Sample ID: 362771 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.26E-02	0.00E+00	1.26E-02
Cs-134	<8.26E-03	0.00E+00	8.26E-03
Cs-137	<9.70E-03	0.00E+00	9.70E-03
Be-7	<5.11E-02	0.00E+00	5.11E-02
K-40	3.73E-01	1.49E-01	1.45E-01

Sample ID: 363514 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<8.36E-03	0.00E+00	8.36E-03
Cs-134	<8.53E-03	0.00E+00	8.53E-03
Cs-137	<1.40E-02	0.00E+00	1.40E-02
Be-7	<8.44E-02	0.00E+00	8.44E-02
K-40	3.27E-01	1.56E-01	1.49E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 121 [INDICATOR - NE @ 0.47 miles]

Sample ID: 363963 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.31E-02	0.00E+00	1.31E-02
Cs-134	<1.34E-02	0.00E+00	1.34E-02
Cs-137	<1.15E-02	0.00E+00	1.15E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	6.21E-01	2.64E-01	7.32E-02

Sample ID: 364497 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.84E-02	0.00E+00	2.84E-02
Cs-134	<1.49E-02	0.00E+00	1.49E-02
Cs-137	<1.65E-02	0.00E+00	1.65E-02
Be-7	<1.22E-01	0.00E+00	1.22E-01
K-40	4.74E-01	2.29E-01	2.64E-01

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 280634 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.76E-02	0.00E+00	2.76E-02
Cs-134	<1.98E-02	0.00E+00	1.98E-02
Cs-137	<1.42E-02	0.00E+00	1.42E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	2.50E-01	1.28E-01	7.52E-02

Sample ID: 280807 **Sample Dates: 1/6/2014 - 1/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.36E-02	0.00E+00	2.36E-02
Cs-134	<1.90E-02	0.00E+00	1.90E-02
Cs-137	<1.98E-02	0.00E+00	1.98E-02
Be-7	<2.45E-01	0.00E+00	2.45E-01
K-40	6.58E-01	1.60E-01	2.93E-01

Sample ID: 281166 **Sample Dates: 1/13/2014 - 1/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.88E-02	0.00E+00	1.88E-02
Cs-134	<1.89E-02	0.00E+00	1.89E-02
Cs-137	<1.60E-02	0.00E+00	1.60E-02
Be-7	<1.34E-01	0.00E+00	1.34E-01
K-40	<5.04E-01	0.00E+00	5.04E-01

Sample ID: 281487 **Sample Dates: 1/20/2014 - 1/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.06E-02	0.00E+00	1.06E-02
Cs-134	<9.36E-03	0.00E+00	9.36E-03
Cs-137	<7.16E-03	0.00E+00	7.16E-03
Be-7	<7.46E-02	0.00E+00	7.46E-02
K-40	5.81E-01	9.75E-02	1.60E-01

Sample ID: 282110 **Sample Dates: 1/27/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.26E-02	0.00E+00	2.26E-02
Cs-134	<1.87E-02	0.00E+00	1.87E-02
Cs-137	<1.88E-02	0.00E+00	1.88E-02
Be-7	<1.84E-01	0.00E+00	1.84E-01
K-40	4.93E-01	1.40E-01	2.56E-01

Sample ID: 282922 **Sample Dates: 2/3/2014 - 2/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<9.36E-03	0.00E+00	9.36E-03
Cs-134	<1.04E-02	0.00E+00	1.04E-02
Cs-137	<8.18E-03	0.00E+00	8.18E-03
Be-7	<5.08E-02	0.00E+00	5.08E-02
K-40	2.54E-01	9.24E-02	2.17E-01

Sample ID: 283369 **Sample Dates: 2/10/2014 - 2/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<8.43E-03	0.00E+00	8.43E-03
Cs-134	<7.46E-03	0.00E+00	7.46E-03
Cs-137	<5.97E-03	0.00E+00	5.97E-03
Be-7	<8.12E-02	0.00E+00	8.12E-02
K-40	3.21E-01	1.01E-01	2.44E-01

Sample ID: 284536 **Sample Dates: 2/17/2014 - 2/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.14E-02	0.00E+00	2.14E-02
Cs-134	<2.00E-02	0.00E+00	2.00E-02
Cs-137	<1.70E-02	0.00E+00	1.70E-02
Be-7	<9.07E-02	0.00E+00	9.07E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
284536	2/17/2014 - 2/24/2014	K-40	2.38E-01	1.04E-01	2.16E-01
285097	2/24/2014 - 3/3/2014	I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	<5.21E-01	0.00E+00	5.21E-01
285702	3/3/2014 - 3/10/2014	I-131	<1.11E-02	0.00E+00	1.11E-02
		Cs-134	<7.19E-03	0.00E+00	7.19E-03
		Cs-137	<5.44E-03	0.00E+00	5.44E-03
		Be-7	<9.55E-02	0.00E+00	9.55E-02
		K-40	4.06E-01	6.97E-02	1.10E-01
286206	3/10/2014 - 3/17/2014	I-131	<1.61E-02	0.00E+00	1.61E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	4.10E-01	1.10E-01	2.18E-01
287091	3/17/2014 - 3/24/2014	I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	5.98E-01	1.31E-01	7.70E-02
288342	3/24/2014 - 3/31/2014	I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	5.29E-01	1.22E-01	2.45E-01
289066	3/31/2014 - 4/7/2014	I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	<5.52E-01	0.00E+00	5.52E-01
289452	4/7/2014 - 4/14/2014	I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	<6.55E-01	0.00E+00	6.55E-01
289862	4/14/2014 - 4/21/2014	I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<5.64E-02	0.00E+00	5.64E-02
		K-40	<3.09E-01	0.00E+00	3.09E-01
291467	4/21/2014 - 4/28/2014	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	2.78E-01	8.80E-02	7.52E-02
292761	4/28/2014 - 5/5/2014	I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<1.04E-02	0.00E+00	1.04E-02
		Cs-137	<1.08E-02	0.00E+00	1.08E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 292761 **Sample Dates: 4/28/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<6.28E-02	0.00E+00	6.28E-02
K-40	2.76E-01	7.49E-02	1.06E-01

Sample ID: 293023 **Sample Dates: 5/5/2014 - 5/12/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.88E-02	0.00E+00	1.88E-02
Cs-134	<2.21E-02	0.00E+00	2.21E-02
Cs-137	<2.22E-02	0.00E+00	2.22E-02
Be-7	<1.38E-01	0.00E+00	1.38E-01
K-40	4.09E-01	1.29E-01	2.72E-01

Sample ID: 294654 **Sample Dates: 5/12/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.58E-02	0.00E+00	1.58E-02
Cs-134	<9.74E-03	0.00E+00	9.74E-03
Cs-137	<1.77E-02	0.00E+00	1.77E-02
Be-7	<1.40E-01	0.00E+00	1.40E-01
K-40	5.12E-01	1.21E-01	2.11E-01

Sample ID: 295163 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.96E-02	0.00E+00	1.96E-02
Cs-134	<1.27E-02	0.00E+00	1.27E-02
Cs-137	<1.38E-02	0.00E+00	1.38E-02
Be-7	<1.00E-01	0.00E+00	1.00E-01
K-40	<4.12E-01	0.00E+00	4.12E-01

Sample ID: 295424 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.08E-02	0.00E+00	2.08E-02
Cs-134	<2.13E-02	0.00E+00	2.13E-02
Cs-137	<2.20E-02	0.00E+00	2.20E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	5.69E-01	1.38E-01	3.51E-01

Sample ID: 295939 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.76E-02	0.00E+00	1.76E-02
Cs-134	<2.15E-02	0.00E+00	2.15E-02
Cs-137	<2.20E-02	0.00E+00	2.20E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	<5.98E-01	0.00E+00	5.98E-01

Sample ID: 296184 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.11E-02	0.00E+00	2.11E-02
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<1.99E-02	0.00E+00	1.99E-02
Be-7	<1.53E-01	0.00E+00	1.53E-01
K-40	<5.90E-01	0.00E+00	5.90E-01

Sample ID: 296705 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.14E-02	0.00E+00	2.14E-02
Cs-134	<1.69E-02	0.00E+00	1.69E-02
Cs-137	<1.74E-02	0.00E+00	1.74E-02
Be-7	<1.69E-01	0.00E+00	1.69E-01
K-40	<5.40E-01	0.00E+00	5.40E-01

Sample ID: 296932 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.52E-02	0.00E+00	1.52E-02
Cs-134	<1.33E-02	0.00E+00	1.33E-02
Cs-137	<1.80E-02	0.00E+00	1.80E-02
Be-7	<9.73E-02	0.00E+00	9.73E-02
K-40	6.50E-01	1.25E-01	6.50E-02

Sample ID: 297329 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.35E-02	0.00E+00	2.35E-02
Cs-134	<9.84E-03	0.00E+00	9.84E-03
Cs-137	<1.51E-02	0.00E+00	1.51E-02
Be-7	<1.50E-01	0.00E+00	1.50E-01
K-40	4.31E-01	1.11E-01	2.07E-01

Sample ID: 297617 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.79E-02	0.00E+00	3.79E-02
Cs-134	<1.03E-02	0.00E+00	1.03E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 297617 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<1.02E-02	0.00E+00	1.02E-02
Be-7	<1.15E-01	0.00E+00	1.15E-01
K-40	<4.88E-01	0.00E+00	4.88E-01

Sample ID: 298153 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.12E-02	0.00E+00	1.12E-02
Cs-134	<1.03E-02	0.00E+00	1.03E-02
Cs-137	<7.88E-03	0.00E+00	7.88E-03
Be-7	<7.23E-02	0.00E+00	7.23E-02
K-40	2.87E-01	1.32E-01	1.41E-01

Sample ID: 350507 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.92E-02	0.00E+00	1.92E-02
Cs-137	<2.40E-02	0.00E+00	2.40E-02
Be-7	<1.08E-01	0.00E+00	1.08E-01
K-40	6.48E-01	2.88E-01	8.36E-02

Sample ID: 350978 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.39E-02	0.00E+00	1.39E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<2.11E-02	0.00E+00	2.11E-02
Be-7	<1.44E-01	0.00E+00	1.44E-01
K-40	3.63E-01	2.44E-01	2.85E-01

Sample ID: 351199 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<1.90E-02	0.00E+00	1.90E-02
Be-7	<1.17E-01	0.00E+00	1.17E-01
K-40	6.30E-01	3.11E-01	3.07E-01

Sample ID: 351605 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.07E-02	0.00E+00	1.07E-02
Cs-134	<2.47E-02	0.00E+00	2.47E-02
Cs-137	<1.85E-02	0.00E+00	1.85E-02
Be-7	<1.16E-01	0.00E+00	1.16E-01
K-40	3.38E-01	2.40E-01	2.97E-01

Sample ID: 353419 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.01E-02	0.00E+00	2.01E-02
Cs-134	<2.01E-02	0.00E+00	2.01E-02
Cs-137	<2.17E-02	0.00E+00	2.17E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	3.91E-01	2.43E-01	2.49E-01

Sample ID: 354046 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.05E-02	0.00E+00	2.05E-02
Cs-134	<4.99E-03	0.00E+00	4.99E-03
Cs-137	<1.13E-02	0.00E+00	1.13E-02
Be-7	<1.03E-01	0.00E+00	1.03E-01
K-40	2.86E-01	1.74E-01	7.04E-02

Sample ID: 354436 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.88E-02	0.00E+00	1.88E-02
Cs-134	<1.97E-02	0.00E+00	1.97E-02
Cs-137	<1.51E-02	0.00E+00	1.51E-02
Be-7	<1.52E-01	0.00E+00	1.52E-01
K-40	3.15E-01	3.18E-01	4.87E-01

Sample ID: 354757 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.89E-02	0.00E+00	1.89E-02
Cs-134	<1.91E-02	0.00E+00	1.91E-02
Cs-137	<4.65E-03	0.00E+00	4.65E-03
Be-7	<9.96E-02	0.00E+00	9.96E-02
K-40	<6.01E-01	0.00E+00	6.01E-01

Sample ID: 355144 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.97E-02	0.00E+00	1.97E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 355144 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<1.72E-02	0.00E+00	1.72E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	<5.90E-01	0.00E+00	5.90E-01

Sample ID: 355628 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.24E-02	0.00E+00	2.24E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	3.87E-01	2.17E-01	8.08E-02

Sample ID: 356484 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.77E-02	0.00E+00	1.77E-02
Cs-134	<1.98E-02	0.00E+00	1.98E-02
Cs-137	<2.10E-02	0.00E+00	2.10E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	2.28E-01	1.95E-01	2.50E-01

Sample ID: 357032 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.70E-02	0.00E+00	2.70E-02
Cs-134	<3.71E-03	0.00E+00	3.71E-03
Cs-137	<4.63E-03	0.00E+00	4.63E-03
Be-7	<1.30E-01	0.00E+00	1.30E-01
K-40	3.97E-01	2.39E-01	2.46E-01

Sample ID: 358040 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.73E-02	0.00E+00	1.73E-02
Cs-134	<1.77E-02	0.00E+00	1.77E-02
Cs-137	<4.98E-03	0.00E+00	4.98E-03
Be-7	<1.36E-01	0.00E+00	1.36E-01
K-40	5.95E-01	3.11E-01	3.17E-01

Sample ID: 358650 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.84E-02	0.00E+00	1.84E-02
Cs-134	<2.23E-02	0.00E+00	2.23E-02
Cs-137	<1.89E-02	0.00E+00	1.89E-02
Be-7	<2.94E-02	0.00E+00	2.94E-02
K-40	2.53E-01	2.26E-01	3.17E-01

Sample ID: 359321 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.94E-02	0.00E+00	1.94E-02
Cs-134	<1.51E-02	0.00E+00	1.51E-02
Cs-137	<4.75E-03	0.00E+00	4.75E-03
Be-7	<1.91E-01	0.00E+00	1.91E-01
K-40	3.85E-01	2.16E-01	8.03E-02

Sample ID: 360019 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.28E-02	0.00E+00	2.28E-02
Cs-134	<1.29E-02	0.00E+00	1.29E-02
Cs-137	<1.60E-02	0.00E+00	1.60E-02
Be-7	<1.19E-01	0.00E+00	1.19E-01
K-40	<4.63E-01	0.00E+00	4.63E-01

Sample ID: 360704 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.29E-02	0.00E+00	2.29E-02
Cs-134	<1.74E-02	0.00E+00	1.74E-02
Cs-137	<2.38E-02	0.00E+00	2.38E-02
Be-7	<1.21E-01	0.00E+00	1.21E-01
K-40	4.92E-01	2.88E-01	3.23E-01

Sample ID: 361568 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.22E-02	0.00E+00	2.22E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<2.49E-02	0.00E+00	2.49E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	5.07E-01	2.50E-01	8.08E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 361948 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.62E-02	0.00E+00	3.62E-02
Cs-134	<1.75E-02	0.00E+00	1.75E-02
Cs-137	<2.58E-02	0.00E+00	2.58E-02
Be-7	<9.76E-02	0.00E+00	9.76E-02
K-40	8.88E-01	3.75E-01	4.01E-01

Sample ID: 362772 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.42E-02	0.00E+00	1.42E-02
Cs-134	<9.25E-03	0.00E+00	9.25E-03
Cs-137	<6.42E-03	0.00E+00	6.42E-03
Be-7	<7.13E-02	0.00E+00	7.13E-02
K-40	5.40E-01	1.77E-01	1.25E-01

Sample ID: 363515 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.30E-02	0.00E+00	1.30E-02
Cs-134	<1.24E-02	0.00E+00	1.24E-02
Cs-137	<1.25E-02	0.00E+00	1.25E-02
Be-7	<7.93E-02	0.00E+00	7.93E-02
K-40	<3.46E-01	0.00E+00	3.46E-01

Sample ID: 363964 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.14E-02	0.00E+00	1.14E-02
Cs-134	<9.04E-03	0.00E+00	9.04E-03
Cs-137	<1.36E-02	0.00E+00	1.36E-02
Be-7	<9.03E-02	0.00E+00	9.03E-02
K-40	2.52E-01	1.32E-01	1.22E-01

Sample ID: 364498 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.10E-02	0.00E+00	3.10E-02
Cs-134	<1.17E-02	0.00E+00	1.17E-02
Cs-137	<8.07E-03	0.00E+00	8.07E-03
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	4.57E-01	2.56E-01	3.42E-01

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID: 280646 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.40E-02	0.00E+00	2.40E-02
Cs-134	<1.23E-02	0.00E+00	1.23E-02
Cs-137	<2.05E-02	0.00E+00	2.05E-02
Be-7	<1.47E-01	0.00E+00	1.47E-01
K-40	6.24E-01	1.33E-01	3.47E-01

Sample ID: 280819 **Sample Dates: 1/6/2014 - 1/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.38E-02	0.00E+00	2.38E-02
Cs-134	<1.62E-02	0.00E+00	1.62E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.34E-01	0.00E+00	1.34E-01
K-40	5.21E-01	1.23E-01	3.23E-01

Sample ID: 281178 **Sample Dates: 1/13/2014 - 1/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.40E-02	0.00E+00	2.40E-02
Cs-134	<1.68E-02	0.00E+00	1.68E-02
Cs-137	<1.72E-02	0.00E+00	1.72E-02
Be-7	<9.66E-02	0.00E+00	9.66E-02
K-40	4.86E-01	1.18E-01	2.60E-01

Sample ID: 281499 **Sample Dates: 1/20/2014 - 1/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.24E-02	0.00E+00	1.24E-02
Cs-134	<1.52E-02	0.00E+00	1.52E-02
Cs-137	<1.72E-02	0.00E+00	1.72E-02
Be-7	<1.05E-01	0.00E+00	1.05E-01
K-40	3.61E-01	9.02E-02	6.10E-02

Sample ID: 282122 **Sample Dates: 1/27/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.96E-02	0.00E+00	1.96E-02
Cs-134	<2.12E-02	0.00E+00	2.12E-02
Cs-137	<2.04E-02	0.00E+00	2.04E-02
Be-7	<1.57E-01	0.00E+00	1.57E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	282122	Sample Dates: 1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error [1]	LLD
			K-40	6.73E-01	1.61E-01	3.92E-01
Sample ID:	**282934**	**Sample Dates: 2/3/2014 - 2/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.17E-02	0.00E+00	1.17E-02
			Cs-134	<9.05E-03	0.00E+00	9.05E-03
			Cs-137	<1.05E-02	0.00E+00	1.05E-02
			Be-7	<8.40E-02	0.00E+00	8.40E-02
			K-40	5.94E-01	8.48E-02	1.12E-01
Sample ID:	**283381**	**Sample Dates: 2/10/2014 - 2/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.07E-02	0.00E+00	2.07E-02
			Cs-134	<1.73E-02	0.00E+00	1.73E-02
			Cs-137	<2.58E-02	0.00E+00	2.58E-02
			Be-7	<9.92E-02	0.00E+00	9.92E-02
			K-40	<5.42E-01	0.00E+00	5.42E-01
Sample ID:	**284548**	**Sample Dates: 2/17/2014 - 2/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.21E-02	0.00E+00	1.21E-02
			Cs-134	<9.20E-03	0.00E+00	9.20E-03
			Cs-137	<7.83E-03	0.00E+00	7.83E-03
			Be-7	<6.98E-02	0.00E+00	6.98E-02
			K-40	6.70E-01	8.96E-02	1.10E-01
Sample ID:	**285109**	**Sample Dates: 2/24/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.31E-02	0.00E+00	2.31E-02
			Cs-134	<9.64E-03	0.00E+00	9.64E-03
			Cs-137	<1.75E-02	0.00E+00	1.75E-02
			Be-7	<7.53E-02	0.00E+00	7.53E-02
			K-40	4.79E-01	1.16E-01	3.51E-01
Sample ID:	**285714**	**Sample Dates: 3/3/2014 - 3/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.36E-02	0.00E+00	1.36E-02
			Cs-134	<1.04E-02	0.00E+00	1.04E-02
			Cs-137	<1.25E-02	0.00E+00	1.25E-02
			Be-7	<6.99E-02	0.00E+00	6.99E-02
			K-40	<3.86E-01	0.00E+00	3.86E-01
Sample ID:	**286218**	**Sample Dates: 3/10/2014 - 3/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.96E-02	0.00E+00	1.96E-02
			Cs-134	<1.93E-02	0.00E+00	1.93E-02
			Cs-137	<2.57E-02	0.00E+00	2.57E-02
			Be-7	<1.44E-01	0.00E+00	1.44E-01
			K-40	<5.64E-01	0.00E+00	5.64E-01
Sample ID:	**287103**	**Sample Dates: 3/17/2014 - 3/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.18E-02	0.00E+00	1.18E-02
			Cs-134	<7.18E-03	0.00E+00	7.18E-03
			Cs-137	<9.51E-03	0.00E+00	9.51E-03
			Be-7	<7.65E-02	0.00E+00	7.65E-02
			K-40	3.40E-01	1.20E-01	1.81E-01
Sample ID:	**288354**	**Sample Dates: 3/24/2014 - 3/31/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.68E-02	0.00E+00	1.68E-02
			Cs-134	<1.70E-02	0.00E+00	1.70E-02
			Cs-137	<2.48E-02	0.00E+00	2.48E-02
			Be-7	<1.27E-01	0.00E+00	1.27E-01
			K-40	6.77E-01	1.38E-01	7.62E-02
Sample ID:	**289078**	**Sample Dates: 3/31/2014 - 4/7/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.12E-02	0.00E+00	1.12E-02
			Cs-134	<5.99E-03	0.00E+00	5.99E-03
			Cs-137	<9.57E-03	0.00E+00	9.57E-03
			Be-7	<6.63E-02	0.00E+00	6.63E-02
			K-40	6.04E-01	8.54E-02	1.12E-01
Sample ID:	**289464**	**Sample Dates: 4/7/2014 - 4/14/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.74E-02	0.00E+00	1.74E-02
			Cs-134	<1.72E-02	0.00E+00	1.72E-02
			Cs-137	<1.70E-02	0.00E+00	1.70E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	289464	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	<1.45E-01	0.00E+00	1.45E-01
			K-40	<6.88E-01	0.00E+00	6.88E-01
Sample ID:	**289874**	**Sample Dates: 4/14/2014 - 4/21/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.22E-02	0.00E+00	1.22E-02
			Cs-134	<1.33E-02	0.00E+00	1.33E-02
			Cs-137	<1.47E-02	0.00E+00	1.47E-02
			Be-7	<1.01E-01	0.00E+00	1.01E-01
			K-40	2.79E-01	7.74E-02	1.78E-01
Sample ID:	**291479**	**Sample Dates: 4/21/2014 - 4/28/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.28E-02	0.00E+00	2.28E-02
			Cs-134	<1.89E-02	0.00E+00	1.89E-02
			Cs-137	<2.47E-02	0.00E+00	2.47E-02
			Be-7	<1.11E-01	0.00E+00	1.11E-01
			K-40	<4.49E-01	0.00E+00	4.49E-01
Sample ID:	**292773**	**Sample Dates: 4/28/2014 - 5/5/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.77E-02	0.00E+00	1.77E-02
			Cs-134	<1.43E-02	0.00E+00	1.43E-02
			Cs-137	<1.70E-02	0.00E+00	1.70E-02
			Be-7	<1.20E-01	0.00E+00	1.20E-01
			K-40	5.66E-01	1.52E-01	2.53E-01
Sample ID:	**293035**	**Sample Dates: 5/5/2014 - 5/12/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.20E-02	0.00E+00	2.20E-02
			Cs-134	<1.68E-02	0.00E+00	1.68E-02
			Cs-137	<2.53E-02	0.00E+00	2.53E-02
			Be-7	<1.53E-01	0.00E+00	1.53E-01
			K-40	2.90E-01	9.16E-02	2.11E-01
Sample ID:	**294666**	**Sample Dates: 5/12/2014 - 5/19/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.24E-02	0.00E+00	2.24E-02
			Cs-134	<1.98E-02	0.00E+00	1.98E-02
			Cs-137	<2.77E-02	0.00E+00	2.77E-02
			Be-7	<1.61E-01	0.00E+00	1.61E-01
			K-40	<4.76E-01	0.00E+00	4.76E-01
Sample ID:	**295175**	**Sample Dates: 5/19/2014 - 5/27/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.00E-02	0.00E+00	2.00E-02
			Cs-134	<1.38E-02	0.00E+00	1.38E-02
			Cs-137	<1.44E-02	0.00E+00	1.44E-02
			Be-7	<1.34E-01	0.00E+00	1.34E-01
			K-40	5.69E-01	1.19E-01	2.84E-01
Sample ID:	**295436**	**Sample Dates: 5/27/2014 - 6/2/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.42E-02	0.00E+00	2.42E-02
			Cs-134	<2.05E-02	0.00E+00	2.05E-02
			Cs-137	<2.61E-02	0.00E+00	2.61E-02
			Be-7	<1.58E-01	0.00E+00	1.58E-01
			K-40	4.37E-01	1.21E-01	9.08E-02
Sample ID:	**295951**	**Sample Dates: 6/2/2014 - 6/9/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.19E-02	0.00E+00	2.19E-02
			Cs-134	<1.68E-02	0.00E+00	1.68E-02
			Cs-137	<1.60E-02	0.00E+00	1.60E-02
			Be-7	<1.32E-01	0.00E+00	1.32E-01
			K-40	4.47E-01	1.45E-01	7.98E-02
Sample ID:	**296196**	**Sample Dates: 6/9/2014 - 6/16/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.46E-02	0.00E+00	1.46E-02
			Cs-134	<1.83E-02	0.00E+00	1.83E-02
			Cs-137	<1.54E-02	0.00E+00	1.54E-02
			Be-7	<1.51E-01	0.00E+00	1.51E-01
			K-40	3.83E-01	1.31E-01	2.72E-01
Sample ID:	**296717**	**Sample Dates: 6/16/2014 - 6/23/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.01E-02	0.00E+00	2.01E-02
			Cs-134	<1.22E-02	0.00E+00	1.22E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	296717	Sample Dates: 6/16/2014 - 6/23/2014				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			Cs-137	<1.21E-02	0.00E+00	1.21E-02
			Be-7	<1.13E-01	0.00E+00	1.13E-01
			K-40	4.79E-01	1.16E-01	2.04E-01
Sample ID:	**296944**	**Sample Dates: 6/23/2014 - 6/30/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<2.27E-02	0.00E+00	2.27E-02
			Cs-134	<1.18E-02	0.00E+00	1.18E-02
			Cs-137	<2.49E-02	0.00E+00	2.49E-02
			Be-7	<1.22E-01	0.00E+00	1.22E-01
			K-40	4.31E-01	1.32E-01	3.17E-01
Sample ID:	**297341**	**Sample Dates: 6/30/2014 - 7/7/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<2.28E-02	0.00E+00	2.28E-02
			Cs-134	<2.30E-02	0.00E+00	2.30E-02
			Cs-137	<1.98E-02	0.00E+00	1.98E-02
			Be-7	<1.01E-01	0.00E+00	1.01E-01
			K-40	4.87E-01	1.18E-01	2.46E-01
Sample ID:	**297629**	**Sample Dates: 7/7/2014 - 7/14/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<2.29E-02	0.00E+00	2.29E-02
			Cs-134	<7.80E-03	0.00E+00	7.80E-03
			Cs-137	<8.94E-03	0.00E+00	8.94E-03
			Be-7	<5.32E-02	0.00E+00	5.32E-02
			K-40	3.34E-01	1.42E-01	1.34E-01
Sample ID:	**298165**	**Sample Dates: 7/14/2014 - 7/21/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<1.61E-02	0.00E+00	1.61E-02
			Cs-134	<1.53E-03	0.00E+00	1.53E-03
			Cs-137	<9.92E-03	0.00E+00	9.92E-03
			Be-7	<6.10E-02	0.00E+00	6.10E-02
			K-40	5.26E-01	1.76E-01	1.26E-01
Sample ID:	**350508**	**Sample Dates: 7/21/2014 - 7/28/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<2.31E-02	0.00E+00	2.31E-02
			Cs-134	<1.33E-02	0.00E+00	1.33E-02
			Cs-137	<1.92E-02	0.00E+00	1.92E-02
			Be-7	<8.38E-02	0.00E+00	8.38E-02
			K-40	4.80E-01	2.44E-01	8.13E-02
Sample ID:	**350979**	**Sample Dates: 7/28/2014 - 8/4/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<2.27E-02	0.00E+00	2.27E-02
			Cs-134	<1.04E-02	0.00E+00	1.04E-02
			Cs-137	<2.48E-02	0.00E+00	2.48E-02
			Be-7	<1.55E-01	0.00E+00	1.55E-01
			K-40	<6.67E-01	0.00E+00	6.67E-01
Sample ID:	**351200**	**Sample Dates: 8/4/2014 - 8/11/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<1.70E-02	0.00E+00	1.70E-02
			Cs-134	<1.31E-02	0.00E+00	1.31E-02
			Cs-137	<1.64E-02	0.00E+00	1.64E-02
			Be-7	<1.31E-01	0.00E+00	1.31E-01
			K-40	4.19E-01	2.41E-01	2.19E-01
Sample ID:	**351606**	**Sample Dates: 8/11/2014 - 8/18/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<4.02E-03	0.00E+00	4.02E-03
			Cs-134	<1.94E-02	0.00E+00	1.94E-02
			Cs-137	<1.62E-02	0.00E+00	1.62E-02
			Be-7	<1.01E-01	0.00E+00	1.01E-01
			K-40	4.62E-01	2.60E-01	2.57E-01
Sample ID:	**353420**	**Sample Dates: 8/18/2014 - 8/25/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<1.99E-02	0.00E+00	1.99E-02
			Cs-134	<2.29E-02	0.00E+00	2.29E-02
			Cs-137	<1.31E-02	0.00E+00	1.31E-02
			Be-7	<1.18E-01	0.00E+00	1.18E-01
			K-40	5.57E-01	2.86E-01	2.68E-01
Sample ID:	**354048**	**Sample Dates: 8/25/2014 - 9/2/2014**				
			Nuclide	**Activity**	**Sigma Error** [1]	**LLD**
			I-131	<1.21E-02	0.00E+00	1.21E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 354048 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<2.42E-02	0.00E+00	2.42E-02
Cs-137	<1.43E-02	0.00E+00	1.43E-02
Be-7	<1.26E-01	0.00E+00	1.26E-01
K-40	3.34E-01	2.08E-01	2.14E-01

Sample ID: 354437 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.50E-02	0.00E+00	2.50E-02
Cs-134	<2.28E-02	0.00E+00	2.28E-02
Cs-137	<2.46E-02	0.00E+00	2.46E-02
Be-7	<1.17E-01	0.00E+00	1.17E-01
K-40	6.92E-01	3.15E-01	9.38E-02

Sample ID: 354758 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.36E-02	0.00E+00	2.36E-02
Cs-134	<1.95E-02	0.00E+00	1.95E-02
Cs-137	<1.63E-02	0.00E+00	1.63E-02
Be-7	<1.43E-01	0.00E+00	1.43E-01
K-40	<6.47E-01	0.00E+00	6.47E-01

Sample ID: 355146 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.12E-02	0.00E+00	2.12E-02
Cs-134	<1.32E-02	0.00E+00	1.32E-02
Cs-137	<1.65E-02	0.00E+00	1.65E-02
Be-7	<8.15E-02	0.00E+00	8.15E-02
K-40	3.04E-01	2.08E-01	2.10E-01

Sample ID: 355629 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.97E-02	0.00E+00	1.97E-02
Cs-134	<2.56E-02	0.00E+00	2.56E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	<5.99E-01	0.00E+00	5.99E-01

Sample ID: 356485 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.80E-02	0.00E+00	1.80E-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	<1.32E-01	0.00E+00	1.32E-01
K-40	5.21E-01	3.44E-01	4.65E-01

Sample ID: 357033 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.37E-02	0.00E+00	1.37E-02
Cs-134	<1.26E-02	0.00E+00	1.26E-02
Cs-137	<1.58E-02	0.00E+00	1.58E-02
Be-7	<1.60E-01	0.00E+00	1.60E-01
K-40	<5.00E-01	0.00E+00	5.00E-01

Sample ID: 358041 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.00E-02	0.00E+00	2.00E-02
Cs-134	<1.72E-02	0.00E+00	1.72E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.19E-01	0.00E+00	1.19E-01
K-40	4.22E-01	2.28E-01	8.16E-02

Sample ID: 358651 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.00E-02	0.00E+00	2.00E-02
Cs-134	<1.69E-02	0.00E+00	1.69E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	3.62E-01	2.23E-01	2.06E-01

Sample ID: 359323 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.60E-02	0.00E+00	1.60E-02
Cs-134	<1.97E-02	0.00E+00	1.97E-02
Cs-137	<1.62E-02	0.00E+00	1.62E-02
Be-7	<1.17E-01	0.00E+00	1.17E-01
K-40	<5.35E-01	0.00E+00	5.35E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 133 [INDICATOR - ENE @ 6.23 miles]

Sample ID: 360020 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.99E-02	0.00E+00	1.99E-02
Cs-137	<2.11E-02	0.00E+00	2.11E-02
Be-7	<1.22E-01	0.00E+00	1.22E-01
K-40	<6.33E-01	0.00E+00	6.33E-01

Sample ID: 360705 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.39E-02	0.00E+00	2.39E-02
Cs-134	<1.54E-02	0.00E+00	1.54E-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	5.21E-01	3.19E-01	4.01E-01

Sample ID: 361569 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.23E-02	0.00E+00	2.23E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.31E-01	0.00E+00	1.31E-01
K-40	<6.00E-01	0.00E+00	6.00E-01

Sample ID: 361949 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.79E-02	0.00E+00	2.79E-02
Cs-134	<1.19E-02	0.00E+00	1.19E-02
Cs-137	<1.48E-02	0.00E+00	1.48E-02
Be-7	<1.39E-01	0.00E+00	1.39E-01
K-40	3.56E-01	2.06E-01	2.04E-01

Sample ID: 362773 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.52E-02	0.00E+00	2.52E-02
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<9.38E-02	0.00E+00	9.38E-02
K-40	5.97E-01	2.84E-01	3.03E-01

Sample ID: 363516 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.35E-02	0.00E+00	1.35E-02
Cs-134	<1.11E-02	0.00E+00	1.11E-02
Cs-137	<1.04E-02	0.00E+00	1.04E-02
Be-7	<8.78E-02	0.00E+00	8.78E-02
K-40	4.34E-01	1.77E-01	1.53E-01

Sample ID: 363965 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.29E-02	0.00E+00	1.29E-02
Cs-134	<1.32E-02	0.00E+00	1.32E-02
Cs-137	<1.28E-02	0.00E+00	1.28E-02
Be-7	<9.05E-02	0.00E+00	9.05E-02
K-40	2.87E-01	2.22E-01	3.04E-01

Sample ID: 364499 **Sample Dates: 12/22/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.11E-02	0.00E+00	3.11E-02
Cs-134	<1.49E-02	0.00E+00	1.49E-02
Cs-137	<1.44E-02	0.00E+00	1.44E-02
Be-7	<9.29E-02	0.00E+00	9.29E-02
K-40	4.93E-01	2.13E-01	2.01E-01

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID: 280635 **Sample Dates: 12/30/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.25E-02	0.00E+00	2.25E-02
Cs-134	<2.30E-02	0.00E+00	2.30E-02
Cs-137	<2.10E-02	0.00E+00	2.10E-02
Be-7	<1.94E-01	0.00E+00	1.94E-01
K-40	4.98E-01	1.17E-01	2.62E-01

Sample ID: 280808 **Sample Dates: 1/6/2014 - 1/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.06E-02	0.00E+00	2.06E-02
Cs-134	<1.76E-02	0.00E+00	1.76E-02
Cs-137	<2.12E-02	0.00E+00	2.12E-02
Be-7	<1.53E-01	0.00E+00	1.53E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	280808	Sample Dates: 1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error [1]	LLD
			K-40	6.80E-01	1.42E-01	2.84E-01
Sample ID:	**281167**	**Sample Dates: 1/13/2014 - 1/20/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.25E-02	0.00E+00	2.25E-02
			Cs-134	<2.10E-02	0.00E+00	2.10E-02
			Cs-137	<1.46E-02	0.00E+00	1.46E-02
			Be-7	<1.49E-01	0.00E+00	1.49E-01
			K-40	6.29E-01	1.34E-01	3.01E-01
Sample ID:	**281488**	**Sample Dates: 1/20/2014 - 1/27/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.69E-02	0.00E+00	1.69E-02
			Cs-134	<1.78E-02	0.00E+00	1.78E-02
			Cs-137	<1.09E-02	0.00E+00	1.09E-02
			Be-7	<1.16E-01	0.00E+00	1.16E-01
			K-40	6.91E-01	1.52E-01	1.76E-01
Sample ID:	**282111**	**Sample Dates: 1/27/2014 - 2/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.58E-02	0.00E+00	2.58E-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	<1.52E-01	0.00E+00	1.52E-01
			K-40	3.23E-01	1.24E-01	2.01E-01
Sample ID:	**282923**	**Sample Dates: 2/3/2014 - 2/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.25E-02	0.00E+00	1.25E-02
			Cs-134	<1.48E-02	0.00E+00	1.48E-02
			Cs-137	<1.82E-02	0.00E+00	1.82E-02
			Be-7	<1.31E-01	0.00E+00	1.31E-01
			K-40	4.98E-01	1.12E-01	6.74E-02
Sample ID:	**283370**	**Sample Dates: 2/10/2014 - 2/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.96E-02	0.00E+00	1.96E-02
			Cs-134	<9.79E-03	0.00E+00	9.79E-03
			Cs-137	<1.77E-02	0.00E+00	1.77E-02
			Be-7	<1.07E-01	0.00E+00	1.07E-01
			K-40	7.73E-01	1.56E-01	1.69E-01
Sample ID:	**284537**	**Sample Dates: 2/17/2014 - 2/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.08E-02	0.00E+00	1.08E-02
			Cs-134	<9.72E-03	0.00E+00	9.72E-03
			Cs-137	<8.38E-03	0.00E+00	8.38E-03
			Be-7	<8.15E-02	0.00E+00	8.15E-02
			K-40	6.24E-01	8.65E-02	1.26E-01
Sample ID:	**285098**	**Sample Dates: 2/24/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.17E-02	0.00E+00	2.17E-02
			Cs-134	<1.54E-02	0.00E+00	1.54E-02
			Cs-137	<1.41E-02	0.00E+00	1.41E-02
			Be-7	<1.72E-01	0.00E+00	1.72E-01
			K-40	4.41E-01	1.10E-01	2.09E-01
Sample ID:	**285703**	**Sample Dates: 3/3/2014 - 3/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<1.82E-02	0.00E+00	1.82E-02
			Cs-134	<1.09E-02	0.00E+00	1.09E-02
			Cs-137	<1.51E-02	0.00E+00	1.51E-02
			Be-7	<1.12E-01	0.00E+00	1.12E-01
			K-40	<6.72E-01	0.00E+00	6.72E-01
Sample ID:	**286207**	**Sample Dates: 3/10/2014 - 3/17/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<2.22E-02	0.00E+00	2.22E-02
			Cs-134	<1.45E-02	0.00E+00	1.45E-02
			Cs-137	<2.99E-02	0.00E+00	2.99E-02
			Be-7	<1.13E-01	0.00E+00	1.13E-01
			K-40	5.28E-01	1.24E-01	3.88E-01
Sample ID:	**287092**	**Sample Dates: 3/17/2014 - 3/24/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			I-131	<9.39E-03	0.00E+00	9.39E-03
			Cs-134	<1.10E-02	0.00E+00	1.10E-02
			Cs-137	<1.09E-02	0.00E+00	1.09E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 287092 **Sample Dates: 3/17/2014 - 3/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<6.26E-02	0.00E+00	6.26E-02
K-40	4.06E-01	9.75E-02	1.45E-01

Sample ID: 288343 **Sample Dates: 3/24/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.46E-02	0.00E+00	2.46E-02
Cs-134	<2.11E-02	0.00E+00	2.11E-02
Cs-137	<1.34E-02	0.00E+00	1.34E-02
Be-7	<1.69E-01	0.00E+00	1.69E-01
K-40	<5.56E-01	0.00E+00	5.56E-01

Sample ID: 289067 **Sample Dates: 3/31/2014 - 4/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.35E-02	0.00E+00	1.35E-02
Cs-134	<1.23E-02	0.00E+00	1.23E-02
Cs-137	<1.11E-02	0.00E+00	1.11E-02
Be-7	<6.84E-02	0.00E+00	6.84E-02
K-40	2.70E-01	9.73E-02	1.43E-01

Sample ID: 289453 **Sample Dates: 4/7/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.68E-02	0.00E+00	1.68E-02
Cs-134	<1.82E-02	0.00E+00	1.82E-02
Cs-137	<2.09E-02	0.00E+00	2.09E-02
Be-7	<1.20E-01	0.00E+00	1.20E-01
K-40	<5.70E-01	0.00E+00	5.70E-01

Sample ID: 289863 **Sample Dates: 4/14/2014 - 4/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.27E-02	0.00E+00	1.27E-02
Cs-134	<1.06E-02	0.00E+00	1.06E-02
Cs-137	<3.73E-03	0.00E+00	3.73E-03
Be-7	<1.01E-01	0.00E+00	1.01E-01
K-40	5.08E-01	1.11E-01	1.77E-01

Sample ID: 291468 **Sample Dates: 4/21/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.62E-02	0.00E+00	1.62E-02
Cs-134	<1.39E-02	0.00E+00	1.39E-02
Cs-137	<1.40E-02	0.00E+00	1.40E-02
Be-7	<8.78E-02	0.00E+00	8.78E-02
K-40	4.19E-01	9.87E-02	1.65E-01

Sample ID: 292762 **Sample Dates: 4/28/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.45E-02	0.00E+00	1.45E-02
Cs-134	<9.31E-03	0.00E+00	9.31E-03
Cs-137	<1.54E-02	0.00E+00	1.54E-02
Be-7	<7.18E-02	0.00E+00	7.18E-02
K-40	4.30E-01	1.17E-01	1.57E-01

Sample ID: 293024 **Sample Dates: 5/5/2014 - 5/12/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.79E-02	0.00E+00	1.79E-02
Cs-134	<1.80E-02	0.00E+00	1.80E-02
Cs-137	<1.82E-02	0.00E+00	1.82E-02
Be-7	<1.45E-01	0.00E+00	1.45E-01
K-40	4.93E-01	1.20E-01	7.84E-02

Sample ID: 294655 **Sample Dates: 5/12/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.80E-02	0.00E+00	1.80E-02
Cs-134	<2.62E-02	0.00E+00	2.62E-02
Cs-137	<2.37E-02	0.00E+00	2.37E-02
Be-7	<1.45E-01	0.00E+00	1.45E-01
K-40	3.08E-01	1.29E-01	2.67E-01

Sample ID: 295164 **Sample Dates: 5/19/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.01E-02	0.00E+00	2.01E-02
Cs-134	<1.07E-02	0.00E+00	1.07E-02
Cs-137	<1.89E-02	0.00E+00	1.89E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	3.42E-01	1.14E-01	1.86E-01

Sample ID: 295425 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.02E-02	0.00E+00	3.02E-02
Cs-134	<1.47E-02	0.00E+00	1.47E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 295425 **Sample Dates: 5/27/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<2.19E-02	0.00E+00	2.19E-02
Be-7	<1.29E-01	0.00E+00	1.29E-01
K-40	<7.41E-01	0.00E+00	7.41E-01

Sample ID: 295940 **Sample Dates: 6/2/2014 - 6/9/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.16E-02	0.00E+00	2.16E-02
Cs-134	<1.79E-02	0.00E+00	1.79E-02
Cs-137	<1.56E-02	0.00E+00	1.56E-02
Be-7	<1.07E-01	0.00E+00	1.07E-01
K-40	5.54E-01	1.44E-01	2.15E-01

Sample ID: 296185 **Sample Dates: 6/9/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.87E-02	0.00E+00	1.87E-02
Cs-134	<1.99E-02	0.00E+00	1.99E-02
Cs-137	<1.67E-02	0.00E+00	1.67E-02
Be-7	<1.42E-01	0.00E+00	1.42E-01
K-40	2.97E-01	1.40E-01	3.28E-01

Sample ID: 296706 **Sample Dates: 6/16/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.12E-02	0.00E+00	2.12E-02
Cs-134	<1.53E-02	0.00E+00	1.53E-02
Cs-137	<2.41E-02	0.00E+00	2.41E-02
Be-7	<1.51E-01	0.00E+00	1.51E-01
K-40	5.53E-01	1.24E-01	4.06E-01

Sample ID: 296933 **Sample Dates: 6/23/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.23E-02	0.00E+00	2.23E-02
Cs-134	<1.69E-02	0.00E+00	1.69E-02
Cs-137	<2.20E-02	0.00E+00	2.20E-02
Be-7	<1.24E-01	0.00E+00	1.24E-01
K-40	6.44E-01	1.37E-01	7.91E-02

Sample ID: 297330 **Sample Dates: 6/30/2014 - 7/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.54E-02	0.00E+00	2.54E-02
Cs-134	<1.44E-02	0.00E+00	1.44E-02
Cs-137	<1.23E-02	0.00E+00	1.23E-02
Be-7	<1.54E-01	0.00E+00	1.54E-01
K-40	5.46E-01	1.25E-01	2.07E-01

Sample ID: 297618 **Sample Dates: 7/7/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.88E-02	0.00E+00	3.88E-02
Cs-134	<1.67E-02	0.00E+00	1.67E-02
Cs-137	<1.60E-02	0.00E+00	1.60E-02
Be-7	<1.59E-01	0.00E+00	1.59E-01
K-40	<4.36E-01	0.00E+00	4.36E-01

Sample ID: 298154 **Sample Dates: 7/14/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.25E-02	0.00E+00	1.25E-02
Cs-134	<1.20E-02	0.00E+00	1.20E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<6.54E-02	0.00E+00	6.54E-02
K-40	4.60E-01	1.92E-01	2.04E-01

Sample ID: 350509 **Sample Dates: 7/21/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.85E-02	0.00E+00	2.85E-02
Cs-134	<1.93E-02	0.00E+00	1.93E-02
Cs-137	<1.98E-02	0.00E+00	1.98E-02
Be-7	<1.09E-01	0.00E+00	1.09E-01
K-40	<6.04E-01	0.00E+00	6.04E-01

Sample ID: 350980 **Sample Dates: 7/28/2014 - 8/4/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.81E-02	0.00E+00	1.81E-02
Cs-134	<3.81E-03	0.00E+00	3.81E-03
Cs-137	<2.11E-02	0.00E+00	2.11E-02
Be-7	<1.55E-01	0.00E+00	1.55E-01
K-40	4.49E-01	2.85E-01	3.50E-01

Sample ID: 351201 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.52E-02	0.00E+00	1.52E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 351201 **Sample Dates: 8/4/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<1.31E-02	0.00E+00	1.31E-02
Cs-137	<1.30E-02	0.00E+00	1.30E-02
Be-7	<1.31E-01	0.00E+00	1.31E-01
K-40	2.58E-01	2.39E-01	3.45E-01

Sample ID: 351607 **Sample Dates: 8/11/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.17E-02	0.00E+00	2.17E-02
Cs-134	<2.21E-02	0.00E+00	2.21E-02
Cs-137	<1.84E-02	0.00E+00	1.84E-02
Be-7	<1.51E-01	0.00E+00	1.51E-01
K-40	<5.44E-01	0.00E+00	5.44E-01

Sample ID: 353421 **Sample Dates: 8/18/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.15E-02	0.00E+00	2.15E-02
Cs-134	<1.60E-02	0.00E+00	1.60E-02
Cs-137	<1.34E-02	0.00E+00	1.34E-02
Be-7	<1.58E-01	0.00E+00	1.58E-01
K-40	6.18E-01	3.14E-01	3.17E-01

Sample ID: 354050 **Sample Dates: 8/25/2014 - 9/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.82E-02	0.00E+00	1.82E-02
Cs-134	<1.98E-02	0.00E+00	1.98E-02
Cs-137	<1.43E-02	0.00E+00	1.43E-02
Be-7	<8.91E-02	0.00E+00	8.91E-02
K-40	<5.22E-01	0.00E+00	5.22E-01

Sample ID: 354438 **Sample Dates: 9/2/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.50E-02	0.00E+00	2.50E-02
Cs-134	<2.65E-02	0.00E+00	2.65E-02
Cs-137	<1.51E-02	0.00E+00	1.51E-02
Be-7	<1.52E-01	0.00E+00	1.52E-01
K-40	<6.53E-01	0.00E+00	6.53E-01

Sample ID: 354759 **Sample Dates: 9/8/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.73E-02	0.00E+00	1.73E-02
Cs-134	<1.51E-02	0.00E+00	1.51E-02
Cs-137	<2.06E-02	0.00E+00	2.06E-02
Be-7	<1.94E-01	0.00E+00	1.94E-01
K-40	4.22E-01	2.49E-01	2.59E-01

Sample ID: 355148 **Sample Dates: 9/15/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.97E-02	0.00E+00	1.97E-02
Cs-134	<2.03E-02	0.00E+00	2.03E-02
Cs-137	<2.15E-02	0.00E+00	2.15E-02
Be-7	<1.68E-01	0.00E+00	1.68E-01
K-40	4.33E-01	2.67E-01	2.99E-01

Sample ID: 355630 **Sample Dates: 9/22/2014 - 9/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.95E-02	0.00E+00	1.95E-02
Cs-134	<1.85E-02	0.00E+00	1.85E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	<6.34E-01	0.00E+00	6.34E-01

Sample ID: 356487 **Sample Dates: 9/29/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.06E-02	0.00E+00	2.06E-02
Cs-134	<1.03E-02	0.00E+00	1.03E-02
Cs-137	<1.62E-02	0.00E+00	1.62E-02
Be-7	<1.30E-01	0.00E+00	1.30E-01
K-40	<5.91E-01	0.00E+00	5.91E-01

Sample ID: 357034 **Sample Dates: 10/6/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.45E-02	0.00E+00	1.45E-02
Cs-134	<1.49E-02	0.00E+00	1.49E-02
Cs-137	<2.07E-02	0.00E+00	2.07E-02
Be-7	<1.17E-01	0.00E+00	1.17E-01
K-40	4.76E-01	2.70E-01	2.85E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 358042 **Sample Dates: 10/13/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.04E-02	0.00E+00	2.04E-02
Cs-134	<1.08E-02	0.00E+00	1.08E-02
Cs-137	<1.71E-02	0.00E+00	1.71E-02
Be-7	<1.71E-01	0.00E+00	1.71E-01
K-40	4.97E-01	2.52E-01	8.41E-02

Sample ID: 358652 **Sample Dates: 10/20/2014 - 10/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.34E-02	0.00E+00	2.34E-02
Cs-134	<1.30E-02	0.00E+00	1.30E-02
Cs-137	<2.10E-02	0.00E+00	2.10E-02
Be-7	<2.94E-02	0.00E+00	2.94E-02
K-40	<6.64E-01	0.00E+00	6.64E-01

Sample ID: 359325 **Sample Dates: 10/27/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.47E-02	0.00E+00	2.47E-02
Cs-134	<1.30E-02	0.00E+00	1.30E-02
Cs-137	<4.75E-03	0.00E+00	4.75E-03
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	3.85E-01	2.16E-01	8.02E-02

Sample ID: 360021 **Sample Dates: 11/3/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.27E-02	0.00E+00	2.27E-02
Cs-134	<1.49E-02	0.00E+00	1.49E-02
Cs-137	<1.27E-02	0.00E+00	1.27E-02
Be-7	<2.98E-02	0.00E+00	2.98E-02
K-40	5.80E-01	2.64E-01	7.85E-02

Sample ID: 360706 **Sample Dates: 11/10/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.90E-02	0.00E+00	1.90E-02
Cs-134	<1.57E-02	0.00E+00	1.57E-02
Cs-137	<1.96E-02	0.00E+00	1.96E-02
Be-7	<1.36E-01	0.00E+00	1.36E-01
K-40	<6.57E-01	0.00E+00	6.57E-01

Sample ID: 361570 **Sample Dates: 11/17/2014 - 11/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.84E-02	0.00E+00	1.84E-02
Cs-134	<1.70E-02	0.00E+00	1.70E-02
Cs-137	<1.64E-02	0.00E+00	1.64E-02
Be-7	<1.02E-01	0.00E+00	1.02E-01
K-40	3.48E-01	2.33E-01	2.59E-01

Sample ID: 361950 **Sample Dates: 11/24/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<4.19E-02	0.00E+00	4.19E-02
Cs-134	<1.63E-02	0.00E+00	1.63E-02
Cs-137	<1.66E-02	0.00E+00	1.66E-02
Be-7	<1.13E-01	0.00E+00	1.13E-01
K-40	4.64E-01	2.54E-01	2.62E-01

Sample ID: 362774 **Sample Dates: 12/1/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.22E-02	0.00E+00	1.22E-02
Cs-134	<1.16E-02	0.00E+00	1.16E-02
Cs-137	<1.56E-02	0.00E+00	1.56E-02
Be-7	<7.16E-02	0.00E+00	7.16E-02
K-40	3.85E-01	1.64E-01	1.50E-01

Sample ID: 363517 **Sample Dates: 12/8/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.03E-02	0.00E+00	1.03E-02
Cs-134	<1.00E-02	0.00E+00	1.00E-02
Cs-137	<1.54E-02	0.00E+00	1.54E-02
Be-7	<7.40E-02	0.00E+00	7.40E-02
K-40	3.15E-01	1.52E-01	1.41E-01

Sample ID: 363966 **Sample Dates: 12/15/2014 - 12/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<9.42E-03	0.00E+00	9.42E-03
Cs-134	<1.04E-02	0.00E+00	1.04E-02
Cs-137	<1.21E-02	0.00E+00	1.21E-02
Be-7	<9.04E-02	0.00E+00	9.04E-02
K-40	5.63E-01	1.95E-01	1.37E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 195 [INDICATOR - N @ 0.19 miles]

Sample ID:	364500	Sample Dates: 12/22/2014 - 12/29/2014				
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<2.72E-02	0.00E+00	2.72E-02
			Cs-134	<1.55E-02	0.00E+00	1.55E-02
			Cs-137	<1.02E-02	0.00E+00	1.02E-02
			Be-7	<9.28E-02	0.00E+00	9.28E-02
			K-40	4.25E-01	1.77E-01	4.80E-02

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 104 [INDICATOR - NNW @ 1.52 miles]

Sample ID:	279592	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.07E+01	0.00E+00	1.07E+01
			Cs-134	<8.26E+00	0.00E+00	8.26E+00
			Cs-137	<7.96E+00	0.00E+00	7.96E+00
			Be-7	1.20E+02	3.52E+01	7.35E+01
			K-40	2.89E+03	1.41E+02	7.92E+01
Sample ID:	281235	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.04E+01	0.00E+00	1.04E+01
			Cs-134	<9.85E+00	0.00E+00	9.85E+00
			Cs-137	<1.30E+01	0.00E+00	1.30E+01
			Be-7	5.36E+01	2.15E+01	7.27E+01
			K-40	2.12E+03	1.59E+02	1.34E+02
Sample ID:	284432	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.09E+01	0.00E+00	1.09E+01
			Cs-134	<1.32E+01	0.00E+00	1.32E+01
			Cs-137	<1.49E+01	0.00E+00	1.49E+01
			Be-7	<1.22E+02	0.00E+00	1.22E+02
			K-40	3.00E+03	2.06E+02	1.39E+02
Sample ID:	294852	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.33E+01	0.00E+00	1.33E+01
			Cs-134	<1.31E+01	0.00E+00	1.31E+01
			Cs-137	<1.52E+01	0.00E+00	1.52E+01
			Be-7	<1.03E+02	0.00E+00	1.03E+02
			K-40	2.52E+03	1.64E+02	1.18E+02
Sample ID:	296620	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<9.11E+00	0.00E+00	9.11E+00
			Cs-134	<1.35E+01	0.00E+00	1.35E+01
			Cs-137	<1.38E+01	0.00E+00	1.38E+01
			Be-7	<1.17E+02	0.00E+00	1.17E+02
			K-40	2.08E+03	1.80E+02	1.89E+02
Sample ID:	298139	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<9.49E+00	0.00E+00	9.49E+00
			Cs-134	<1.05E+01	0.00E+00	1.05E+01
			Cs-137	<1.09E+01	0.00E+00	1.09E+01
			Be-7	1.44E+02	8.09E+01	1.19E+02
			K-40	2.40E+03	3.35E+02	9.43E+01
Sample ID:	354443	Sample Dates: 9/2/2014 - 9/2/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<8.96E+00	0.00E+00	8.96E+00
			Cs-134	<1.12E+01	0.00E+00	1.12E+01
			Cs-137	<1.20E+01	0.00E+00	1.20E+01
			Be-7	4.07E+01	5.17E+01	8.48E+01
			K-40	2.61E+03	3.56E+02	1.34E+02
Sample ID:	357039	Sample Dates: 10/6/2014 - 10/6/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<7.08E+00	0.00E+00	7.08E+00
			Cs-134	<1.15E+01	0.00E+00	1.15E+01
			Cs-137	<1.15E+01	0.00E+00	1.15E+01
			Be-7	<1.10E+02	0.00E+00	1.10E+02
			K-40	3.13E+03	4.07E+02	1.52E+02
Sample ID:	360026	Sample Dates: 11/3/2014 - 11/3/2014	MIXEDCROPS			
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.16E+01	0.00E+00	1.16E+01
			Cs-134	<1.28E+01	0.00E+00	1.28E+01
			Cs-137	<1.21E+01	0.00E+00	1.21E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 104 [INDICATOR - NNW @ 1.52 miles]

Sample ID:	360026	Sample Dates: 11/3/2014 - 11/3/2014	MIXEDCROPS	Nuclide	Activity	Sigma Error [1]	LLD
				Be-7	5.26E+01	6.75E+01	1.11E+02
				K-40	3.19E+03	4.25E+02	9.81E+01
Sample ID:	362779	Sample Dates: 12/1/2014 - 12/1/2014	MIXEDCROPS	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<2.04E+01	0.00E+00	2.04E+01
				Cs-134	<8.84E+00	0.00E+00	8.84E+00
				Cs-137	<9.32E+00	0.00E+00	9.32E+00
				Be-7	4.88E+02	9.40E+01	1.08E+02
				K-40	4.05E+03	4.12E+02	1.56E+02

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

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID:	280875	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Beta	1.76E+00	3.85E-01	1.17E+00
			Mn-54	<4.06E+00	0.00E+00	4.06E+00
			Co-58	<4.37E+00	0.00E+00	4.37E+00
			Fe-59	<1.02E+01	0.00E+00	1.02E+01
			Co-60	<5.16E+00	0.00E+00	5.16E+00
			Zn-65	<1.09E+01	0.00E+00	1.09E+01
			Zr-95	<8.94E+00	0.00E+00	8.94E+00
			Nb-95	<5.53E+00	0.00E+00	5.53E+00
			I-131	<1.39E+01	0.00E+00	1.39E+01
			Cs-134	<4.19E+00	0.00E+00	4.19E+00
			Cs-137	<4.22E+00	0.00E+00	4.22E+00
			BaLa-140	<1.00E+01	0.00E+00	1.00E+01
			Be-7	<4.13E+01	0.00E+00	4.13E+01
			K-40	2.20E+02	3.04E+01	4.64E+01
Sample ID:	282990	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Beta	1.37E+00	4.15E-01	1.31E+00
			Mn-54	<5.60E+00	0.00E+00	5.60E+00
			Co-58	<4.92E+00	0.00E+00	4.92E+00
			Fe-59	<9.59E+00	0.00E+00	9.59E+00
			Co-60	<5.18E+00	0.00E+00	5.18E+00
			Zn-65	<1.09E+01	0.00E+00	1.09E+01
			Zr-95	<7.96E+00	0.00E+00	7.96E+00
			Nb-95	<7.36E+00	0.00E+00	7.36E+00
			I-131	<1.43E+01	0.00E+00	1.43E+01
			Cs-134	<4.18E+00	0.00E+00	4.18E+00
			Cs-137	<5.83E+00	0.00E+00	5.83E+00
			BaLa-140	<1.19E+01	0.00E+00	1.19E+01
			Be-7	<4.82E+01	0.00E+00	4.82E+01
			K-40	1.09E+02	2.18E+01	3.27E+01
Sample ID:	284713	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error [1]	LLD
			H3DW	7.93E+02	6.95E+01	1.89E+02
Sample ID:	285770	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Beta	<5.41E-01	0.00E+00	1.27E+00
			Mn-54	<3.52E+00	0.00E+00	3.52E+00
			Co-58	<5.18E+00	0.00E+00	5.18E+00
			Fe-59	<7.76E+00	0.00E+00	7.76E+00
			Co-60	<5.28E+00	0.00E+00	5.28E+00
			Zn-65	<8.31E+00	0.00E+00	8.31E+00
			Zr-95	<6.83E+00	0.00E+00	6.83E+00
			Nb-95	<5.60E+00	0.00E+00	5.60E+00
			I-131	<1.44E+01	0.00E+00	1.44E+01
			Cs-134	<4.38E+00	0.00E+00	4.38E+00
			Cs-137	<4.56E+00	0.00E+00	4.56E+00
			BaLa-140	<1.38E+01	0.00E+00	1.38E+01
			Be-7	<4.45E+01	0.00E+00	4.45E+01
			K-40	1.36E+02	2.09E+01	2.30E+01
Sample ID:	289131	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Beta	1.12E+00	3.93E-01	1.26E+00
			Mn-54	<3.07E+00	0.00E+00	3.07E+00
			Co-58	<3.41E+00	0.00E+00	3.41E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 289131 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<7.06E+00	0.00E+00	7.06E+00
Co-60	<2.67E+00	0.00E+00	2.67E+00
Zn-65	<6.12E+00	0.00E+00	6.12E+00
Zr-95	<5.77E+00	0.00E+00	5.77E+00
Nb-95	<3.32E+00	0.00E+00	3.32E+00
I-131	<1.28E+01	0.00E+00	1.28E+01
Cs-134	<3.16E+00	0.00E+00	3.16E+00
Cs-137	<3.32E+00	0.00E+00	3.32E+00
BaLa-140	<8.49E+00	0.00E+00	8.49E+00
Be-7	<3.26E+01	0.00E+00	3.26E+01
K-40	1.70E+02	2.48E+01	2.73E+01

Sample ID: 292826 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	7.77E-01	3.80E-01	1.24E+00
Mn-54	<4.30E+00	0.00E+00	4.30E+00
Co-58	<4.50E+00	0.00E+00	4.50E+00
Fe-59	<9.32E+00	0.00E+00	9.32E+00
Co-60	<6.24E+00	0.00E+00	6.24E+00
Zn-65	<1.02E+01	0.00E+00	1.02E+01
Zr-95	<6.64E+00	0.00E+00	6.64E+00
Nb-95	<6.41E+00	0.00E+00	6.41E+00
I-131	<1.45E+01	0.00E+00	1.45E+01
Cs-134	<3.59E+00	0.00E+00	3.59E+00
Cs-137	<4.90E+00	0.00E+00	4.90E+00
BaLa-140	<8.70E+00	0.00E+00	8.70E+00
Be-7	<4.23E+01	0.00E+00	4.23E+01
K-40	<7.55E+01	0.00E+00	7.55E+01

Sample ID: 295216 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	1.05E+03	7.36E+01	1.89E+02

Sample ID: 295489 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.44E+00	3.94E-01	1.23E+00
Mn-54	<3.01E+00	0.00E+00	3.01E+00
Co-58	<3.73E+00	0.00E+00	3.73E+00
Fe-59	<9.65E+00	0.00E+00	9.65E+00
Co-60	<3.95E+00	0.00E+00	3.95E+00
Zn-65	<7.68E+00	0.00E+00	7.68E+00
Zr-95	<5.55E+00	0.00E+00	5.55E+00
Nb-95	<3.68E+00	0.00E+00	3.68E+00
I-131	<1.40E+01	0.00E+00	1.40E+01
Cs-134	<3.02E+00	0.00E+00	3.02E+00
Cs-137	<4.01E+00	0.00E+00	4.01E+00
BaLa-140	<1.02E+01	0.00E+00	1.02E+01
Be-7	<2.79E+01	0.00E+00	2.79E+01
K-40	8.64E+01	1.76E+01	2.71E+01

Sample ID: 296997 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.87E+00	8.25E-01	1.21E+00
Mn-54	<3.71E+00	0.00E+00	3.71E+00
Co-58	<2.64E+00	0.00E+00	2.64E+00
Fe-59	<8.40E+00	0.00E+00	8.40E+00
Co-60	<4.89E+00	0.00E+00	4.89E+00
Zn-65	<7.76E+00	0.00E+00	7.76E+00
Zr-95	<6.49E+00	0.00E+00	6.49E+00
Nb-95	<4.58E+00	0.00E+00	4.58E+00
I-131	<1.14E+01	0.00E+00	1.14E+01
Cs-134	<3.26E+00	0.00E+00	3.26E+00
Cs-137	<4.15E+00	0.00E+00	4.15E+00
BaLa-140	<8.54E+00	0.00E+00	8.54E+00
Be-7	<3.17E+01	0.00E+00	3.17E+01
K-40	1.14E+02	1.93E+01	3.04E+01

Sample ID: 350539 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.57E+00	7.92E-01	1.17E+00
Mn-54	<2.33E+00	0.00E+00	2.33E+00
Co-58	<2.71E+00	0.00E+00	2.71E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 350539 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<5.39E+00	0.00E+00	5.39E+00
Co-60	<2.53E+00	0.00E+00	2.53E+00
Zn-65	<4.98E+00	0.00E+00	4.98E+00
Zr-95	<4.42E+00	0.00E+00	4.42E+00
Nb-95	<3.19E+00	0.00E+00	3.19E+00
I-131	<9.70E+00	0.00E+00	9.70E+00
Cs-134	<1.92E+00	0.00E+00	1.92E+00
Cs-137	<2.36E+00	0.00E+00	2.36E+00
BaLa-140	<6.19E+00	0.00E+00	6.19E+00
Be-7	<2.23E+01	0.00E+00	2.23E+01
K-40	7.74E+01	2.85E+01	3.98E+01

Sample ID: 351608 **Sample Dates: 7/21/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.80E+00	7.71E-01	1.20E+00
Mn-54	<2.80E+00	0.00E+00	2.80E+00
Co-58	<3.35E+00	0.00E+00	3.35E+00
Fe-59	<7.16E+00	0.00E+00	7.16E+00
Co-60	<3.82E+00	0.00E+00	3.82E+00
Zn-65	<5.23E+00	0.00E+00	5.23E+00
Zr-95	<6.51E+00	0.00E+00	6.51E+00
Nb-95	<5.62E+00	0.00E+00	5.62E+00
I-131	<1.09E+01	0.00E+00	1.09E+01
Cs-134	<3.65E+00	0.00E+00	3.65E+00
Cs-137	<3.13E+00	0.00E+00	3.13E+00
BaLa-140	<6.83E+00	0.00E+00	6.83E+00
Be-7	<2.80E+01	0.00E+00	2.80E+01
K-40	1.03E+02	3.71E+01	4.55E+01

Sample ID: 354198 **Sample Dates: 5/27/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	8.01E+02	1.34E+02	1.88E+02

Sample ID: 354585 **Sample Dates: 8/18/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	<6.24E-01	0.00E+00	1.45E+00
Mn-54	<3.06E+00	0.00E+00	3.06E+00
Co-58	<3.03E+00	0.00E+00	3.03E+00
Fe-59	<7.91E+00	0.00E+00	7.91E+00
Co-60	<2.95E+00	0.00E+00	2.95E+00
Zn-65	<6.52E+00	0.00E+00	6.52E+00
Zr-95	<6.69E+00	0.00E+00	6.69E+00
Nb-95	<3.81E+00	0.00E+00	3.81E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<3.56E+00	0.00E+00	3.56E+00
Cs-137	<3.05E+00	0.00E+00	3.05E+00
BaLa-140	<7.00E+00	0.00E+00	7.00E+00
Be-7	<2.96E+01	0.00E+00	2.96E+01
K-40	1.69E+02	5.31E+01	7.02E+01

Sample ID: 356856 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.61E+00	7.73E-01	1.22E+00
Mn-54	<1.81E+00	0.00E+00	1.81E+00
Co-58	<2.01E+00	0.00E+00	2.01E+00
Fe-59	<3.57E+00	0.00E+00	3.57E+00
Co-60	<1.53E+00	0.00E+00	1.53E+00
Zn-65	<2.95E+00	0.00E+00	2.95E+00
Zr-95	<3.93E+00	0.00E+00	3.93E+00
Nb-95	<2.49E+00	0.00E+00	2.49E+00
I-131	<1.20E+01	0.00E+00	1.20E+01
Cs-134	<2.11E+00	0.00E+00	2.11E+00
Cs-137	<2.06E+00	0.00E+00	2.06E+00
BaLa-140	<6.02E+00	0.00E+00	6.02E+00
Be-7	<1.75E+01	0.00E+00	1.75E+01
K-40	3.20E+01	1.64E+01	2.32E+01

Sample ID: 359747 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.42E+00	8.31E-01	1.27E+00
Mn-54	<2.00E+00	0.00E+00	2.00E+00
Co-58	<2.00E+00	0.00E+00	2.00E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 101 [INDICATOR - E @ 3.31 miles]

Sample ID: 359747 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<4.00E+00	0.00E+00	4.00E+00
Co-60	<2.05E+00	0.00E+00	2.05E+00
Zn-65	<3.58E+00	0.00E+00	3.58E+00
Zr-95	<3.97E+00	0.00E+00	3.97E+00
Nb-95	<2.72E+00	0.00E+00	2.72E+00
I-131	<1.17E+01	0.00E+00	1.17E+01
Cs-134	<2.27E+00	0.00E+00	2.27E+00
Cs-137	<1.93E+00	0.00E+00	1.93E+00
BaLa-140	<6.34E+00	0.00E+00	6.34E+00
Be-7	<1.66E+01	0.00E+00	1.66E+01
K-40	4.16E+01	1.81E+01	2.42E+01

Sample ID: 362144 **Sample Dates: 11/10/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	<1.53E-01	0.00E+00	1.34E+00
Mn-54	<1.56E+00	0.00E+00	1.56E+00
Co-58	<2.08E+00	0.00E+00	2.08E+00
Fe-59	<3.80E+00	0.00E+00	3.80E+00
Co-60	<1.86E+00	0.00E+00	1.86E+00
Zn-65	<4.03E+00	0.00E+00	4.03E+00
Zr-95	<4.20E+00	0.00E+00	4.20E+00
Nb-95	<2.92E+00	0.00E+00	2.92E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<1.90E+00	0.00E+00	1.90E+00
Cs-137	<2.10E+00	0.00E+00	2.10E+00
BaLa-140	<6.61E+00	0.00E+00	6.61E+00
Be-7	<1.59E+01	0.00E+00	1.59E+01
K-40	4.99E+01	2.26E+01	3.17E+01

Sample ID: 364861 **Sample Dates: 8/18/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	9.84E+02	1.46E+02	1.99E+02

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 280859 **Sample Dates: 12/9/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.88E+00	3.86E-01	1.16E+00
Mn-54	<3.39E+00	0.00E+00	3.39E+00
Co-58	<2.92E+00	0.00E+00	2.92E+00
Fe-59	<6.09E+00	0.00E+00	6.09E+00
Co-60	<3.50E+00	0.00E+00	3.50E+00
Zn-65	<6.23E+00	0.00E+00	6.23E+00
Zr-95	<7.96E+00	0.00E+00	7.96E+00
Nb-95	<4.97E+00	0.00E+00	4.97E+00
I-131	<1.40E+01	0.00E+00	1.40E+01
Cs-134	<3.50E+00	0.00E+00	3.50E+00
Cs-137	<3.44E+00	0.00E+00	3.44E+00
BaLa-140	<7.30E+00	0.00E+00	7.30E+00
Be-7	<3.21E+01	0.00E+00	3.21E+01
K-40	1.54E+02	3.12E+01	3.76E+01

Sample ID: 282974 **Sample Dates: 1/6/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	<5.85E-01	0.00E+00	1.31E+00
Mn-54	<2.78E+00	0.00E+00	2.78E+00
Co-58	<2.90E+00	0.00E+00	2.90E+00
Fe-59	<7.16E+00	0.00E+00	7.16E+00
Co-60	<4.41E+00	0.00E+00	4.41E+00
Zn-65	<6.29E+00	0.00E+00	6.29E+00
Zr-95	<6.15E+00	0.00E+00	6.15E+00
Nb-95	<4.40E+00	0.00E+00	4.40E+00
I-131	<1.14E+01	0.00E+00	1.14E+01
Cs-134	<2.90E+00	0.00E+00	2.90E+00
Cs-137	<3.42E+00	0.00E+00	3.42E+00
BaLa-140	<8.86E+00	0.00E+00	8.86E+00
Be-7	<2.83E+01	0.00E+00	2.83E+01
K-40	<5.66E+01	0.00E+00	5.66E+01

Sample ID: 284712 **Sample Dates: 12/9/2013 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	4.87E+02	6.53E+01	1.89E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 285754 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.28E+00	4.00E-01	1.27E+00
Mn-54	<3.14E+00	0.00E+00	3.14E+00
Co-58	<3.42E+00	0.00E+00	3.42E+00
Fe-59	<6.77E+00	0.00E+00	6.77E+00
Co-60	<3.86E+00	0.00E+00	3.86E+00
Zn-65	<6.57E+00	0.00E+00	6.57E+00
Zr-95	<5.83E+00	0.00E+00	5.83E+00
Nb-95	<4.02E+00	0.00E+00	4.02E+00
I-131	<1.26E+01	0.00E+00	1.26E+01
Cs-134	<2.32E+00	0.00E+00	2.32E+00
Cs-137	<3.06E+00	0.00E+00	3.06E+00
BaLa-140	<8.51E+00	0.00E+00	8.51E+00
Be-7	<2.68E+01	0.00E+00	2.68E+01
K-40	4.88E+01	1.55E+01	3.11E+01

Sample ID: 289118 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	7.37E-01	3.81E-01	1.25E+00
Mn-54	<3.23E+00	0.00E+00	3.23E+00
Co-58	<3.90E+00	0.00E+00	3.90E+00
Fe-59	<7.67E+00	0.00E+00	7.67E+00
Co-60	<4.79E+00	0.00E+00	4.79E+00
Zn-65	<5.68E+00	0.00E+00	5.68E+00
Zr-95	<6.84E+00	0.00E+00	6.84E+00
Nb-95	<4.58E+00	0.00E+00	4.58E+00
I-131	<1.34E+01	0.00E+00	1.34E+01
Cs-134	<3.38E+00	0.00E+00	3.38E+00
Cs-137	<4.11E+00	0.00E+00	4.11E+00
BaLa-140	<1.08E+01	0.00E+00	1.08E+01
Be-7	<3.28E+01	0.00E+00	3.28E+01
K-40	9.75E+01	2.38E+01	3.41E+01

Sample ID: 292813 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	9.38E-01	3.80E-01	1.23E+00
Mn-54	<3.38E+00	0.00E+00	3.38E+00
Co-58	<3.53E+00	0.00E+00	3.53E+00
Fe-59	<1.19E+01	0.00E+00	1.19E+01
Co-60	<3.67E+00	0.00E+00	3.67E+00
Zn-65	<9.71E+00	0.00E+00	9.71E+00
Zr-95	<7.28E+00	0.00E+00	7.28E+00
Nb-95	<5.65E+00	0.00E+00	5.65E+00
I-131	<1.35E+01	0.00E+00	1.35E+01
Cs-134	<3.76E+00	0.00E+00	3.76E+00
Cs-137	<4.88E+00	0.00E+00	4.88E+00
BaLa-140	<1.08E+01	0.00E+00	1.08E+01
Be-7	<4.05E+01	0.00E+00	4.05E+01
K-40	9.52E+01	3.31E+01	4.51E+01

Sample ID: 295217 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	4.92E+02	6.58E+01	1.90E+02

Sample ID: 295476 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.87E+00	4.01E-01	1.22E+00
Mn-54	<2.09E+00	0.00E+00	2.09E+00
Co-58	<2.48E+00	0.00E+00	2.48E+00
Fe-59	<6.41E+00	0.00E+00	6.41E+00
Co-60	<2.47E+00	0.00E+00	2.47E+00
Zn-65	<4.58E+00	0.00E+00	4.58E+00
Zr-95	<4.55E+00	0.00E+00	4.55E+00
Nb-95	<3.37E+00	0.00E+00	3.37E+00
I-131	<1.45E+01	0.00E+00	1.45E+01
Cs-134	<1.91E+00	0.00E+00	1.91E+00
Cs-137	<2.53E+00	0.00E+00	2.53E+00
BaLa-140	<7.24E+00	0.00E+00	7.24E+00
Be-7	<2.34E+01	0.00E+00	2.34E+01
K-40	1.16E+02	1.49E+01	1.84E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 296984 Sample Dates: 5/27/2014 - 6/23/2014

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.78E+00	8.15E-01	1.20E+00
Mn-54	<3.97E+00	0.00E+00	3.97E+00
Co-58	<3.61E+00	0.00E+00	3.61E+00
Fe-59	<9.13E+00	0.00E+00	9.13E+00
Co-60	<3.54E+00	0.00E+00	3.54E+00
Zn-65	<8.69E+00	0.00E+00	8.69E+00
Zr-95	<5.48E+00	0.00E+00	5.48E+00
Nb-95	<5.52E+00	0.00E+00	5.52E+00
I-131	<1.44E+01	0.00E+00	1.44E+01
Cs-134	<3.57E+00	0.00E+00	3.57E+00
Cs-137	<4.18E+00	0.00E+00	4.18E+00
BaLa-140	<8.87E+00	0.00E+00	8.87E+00
Be-7	<3.16E+01	0.00E+00	3.16E+01
K-40	<5.74E+01	0.00E+00	5.74E+01

Sample ID: 350540 Sample Dates: 6/23/2014 - 7/21/2014

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.90E+00	7.55E-01	1.16E+00
Mn-54	<2.31E+00	0.00E+00	2.31E+00
Co-58	<2.54E+00	0.00E+00	2.54E+00
Fe-59	<4.98E+00	0.00E+00	4.98E+00
Co-60	<2.64E+00	0.00E+00	2.64E+00
Zn-65	<4.07E+00	0.00E+00	4.07E+00
Zr-95	<4.77E+00	0.00E+00	4.77E+00
Nb-95	<2.98E+00	0.00E+00	2.98E+00
I-131	<1.13E+01	0.00E+00	1.13E+01
Cs-134	<1.98E+00	0.00E+00	1.98E+00
Cs-137	<2.07E+00	0.00E+00	2.07E+00
BaLa-140	<6.06E+00	0.00E+00	6.06E+00
Be-7	<2.29E+01	0.00E+00	2.29E+01
K-40	1.48E+02	3.27E+01	3.59E+01

Sample ID: 351609 Sample Dates: 7/21/2014 - 8/18/2014

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.62E+00	8.03E-01	1.19E+00
Mn-54	<2.94E+00	0.00E+00	2.94E+00
Co-58	<3.25E+00	0.00E+00	3.25E+00
Fe-59	<7.07E+00	0.00E+00	7.07E+00
Co-60	<4.76E+00	0.00E+00	4.76E+00
Zn-65	<7.60E+00	0.00E+00	7.60E+00
Zr-95	<6.45E+00	0.00E+00	6.45E+00
Nb-95	<4.22E+00	0.00E+00	4.22E+00
I-131	<1.12E+01	0.00E+00	1.12E+01
Cs-134	<4.07E+00	0.00E+00	4.07E+00
Cs-137	<3.89E+00	0.00E+00	3.89E+00
BaLa-140	<6.34E+00	0.00E+00	6.34E+00
Be-7	<3.44E+01	0.00E+00	3.44E+01
K-40	1.11E+02	3.62E+01	3.90E+01

Sample ID: 354199 Sample Dates: 5/27/2014 - 8/18/2014

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	6.79E+02	1.30E+02	1.87E+02

Sample ID: 354586 Sample Dates: 8/18/2014 - 9/15/2014

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.56E+00	8.81E-01	1.44E+00
Mn-54	<5.82E+00	0.00E+00	5.82E+00
Co-58	<4.47E+00	0.00E+00	4.47E+00
Fe-59	<1.41E+01	0.00E+00	1.41E+01
Co-60	<5.45E+00	0.00E+00	5.45E+00
Zn-65	<1.33E+01	0.00E+00	1.33E+01
Zr-95	<1.18E+01	0.00E+00	1.18E+01
Nb-95	<7.15E+00	0.00E+00	7.15E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<6.69E+00	0.00E+00	6.69E+00
Cs-137	<5.64E+00	0.00E+00	5.64E+00
BaLa-140	<8.12E+00	0.00E+00	8.12E+00
Be-7	<4.79E+01	0.00E+00	4.79E+01
K-40	<1.03E+02	0.00E+00	1.03E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 119 [INDICATOR - SSW @ 7.4 miles]

Sample ID: 356857 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	7.51E+00	1.00E+00	1.21E+00
Mn-54	<4.01E+00	0.00E+00	4.01E+00
Co-58	<3.33E+00	0.00E+00	3.33E+00
Fe-59	<6.51E+00	0.00E+00	6.51E+00
Co-60	<4.05E+00	0.00E+00	4.05E+00
Zn-65	<9.00E+00	0.00E+00	9.00E+00
Zr-95	<7.85E+00	0.00E+00	7.85E+00
Nb-95	<6.68E+00	0.00E+00	6.68E+00
I-131	<1.18E+01	0.00E+00	1.18E+01
Cs-134	<4.63E+00	0.00E+00	4.63E+00
Cs-137	<3.88E+00	0.00E+00	3.88E+00
BaLa-140	<7.74E+00	0.00E+00	7.74E+00
Be-7	<3.46E+01	0.00E+00	3.46E+01
K-40	5.40E+01	3.23E+01	3.96E+01

Sample ID: 359748 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	8.67E-01	7.59E-01	1.26E+00
Mn-54	<1.75E+00	0.00E+00	1.75E+00
Co-58	<2.19E+00	0.00E+00	2.19E+00
Fe-59	<4.66E+00	0.00E+00	4.66E+00
Co-60	<1.94E+00	0.00E+00	1.94E+00
Zn-65	<4.37E+00	0.00E+00	4.37E+00
Zr-95	<3.73E+00	0.00E+00	3.73E+00
Nb-95	<2.72E+00	0.00E+00	2.72E+00
I-131	<1.03E+01	0.00E+00	1.03E+01
Cs-134	<2.24E+00	0.00E+00	2.24E+00
Cs-137	<1.74E+00	0.00E+00	1.74E+00
BaLa-140	<7.54E+00	0.00E+00	7.54E+00
Be-7	<1.80E+01	0.00E+00	1.80E+01
K-40	2.74E+01	1.78E+01	2.65E+01

Sample ID: 362145 **Sample Dates: 11/10/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	<3.03E-01	0.00E+00	1.33E+00
Mn-54	<1.81E+00	0.00E+00	1.81E+00
Co-58	<2.12E+00	0.00E+00	2.12E+00
Fe-59	<3.94E+00	0.00E+00	3.94E+00
Co-60	<1.94E+00	0.00E+00	1.94E+00
Zn-65	<3.81E+00	0.00E+00	3.81E+00
Zr-95	<4.19E+00	0.00E+00	4.19E+00
Nb-95	<2.83E+00	0.00E+00	2.83E+00
I-131	<1.18E+01	0.00E+00	1.18E+01
Cs-134	<2.55E+00	0.00E+00	2.55E+00
Cs-137	<2.19E+00	0.00E+00	2.19E+00
BaLa-140	<6.16E+00	0.00E+00	6.16E+00
Be-7	<1.95E+01	0.00E+00	1.95E+01
K-40	4.61E+01	1.94E+01	2.58E+01

Sample ID: 364862 **Sample Dates: 8/18/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	5.36E+02	1.33E+02	1.99E+02

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID: 280860 **Sample Dates: 12/9/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.83E+00	3.86E-01	1.17E+00
Mn-54	<3.11E+00	0.00E+00	3.11E+00
Co-58	<3.14E+00	0.00E+00	3.14E+00
Fe-59	<7.81E+00	0.00E+00	7.81E+00
Co-60	<4.32E+00	0.00E+00	4.32E+00
Zn-65	<7.21E+00	0.00E+00	7.21E+00
Zr-95	<6.82E+00	0.00E+00	6.82E+00
Nb-95	<4.32E+00	0.00E+00	4.32E+00
I-131	<1.22E+01	0.00E+00	1.22E+01
Cs-134	<3.32E+00	0.00E+00	3.32E+00
Cs-137	<3.24E+00	0.00E+00	3.24E+00
BaLa-140	<8.47E+00	0.00E+00	8.47E+00
Be-7	<3.00E+01	0.00E+00	3.00E+01
K-40	1.03E+02	2.10E+01	3.17E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample ID: 282975 **Sample Dates: 1/6/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	9.00E-01	4.05E-01	1.31E+00
Mn-54	<4.21E+00	0.00E+00	4.21E+00
Co-58	<3.94E+00	0.00E+00	3.94E+00
Fe-59	<8.89E+00	0.00E+00	8.89E+00
Co-60	<5.52E+00	0.00E+00	5.52E+00
Zn-65	<9.49E+00	0.00E+00	9.49E+00
Zr-95	<1.04E+01	0.00E+00	1.04E+01
Nb-95	<5.59E+00	0.00E+00	5.59E+00
I-131	<1.37E+01	0.00E+00	1.37E+01
Cs-134	<4.39E+00	0.00E+00	4.39E+00
Cs-137	<5.02E+00	0.00E+00	5.02E+00
BaLa-140	<1.25E+01	0.00E+00	1.25E+01
Be-7	<4.21E+01	0.00E+00	4.21E+01
K-40	2.24E+02	2.81E+01	5.15E+01

Sample ID: 284700 **Sample Dates: 12/9/2013 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	4.61E+02	6.49E+01	1.89E+02

Sample ID: 285755 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.10E+00	3.97E-01	1.27E+00
Mn-54	<4.11E+00	0.00E+00	4.11E+00
Co-58	<3.84E+00	0.00E+00	3.84E+00
Fe-59	<1.02E+01	0.00E+00	1.02E+01
Co-60	<4.20E+00	0.00E+00	4.20E+00
Zn-65	<9.20E+00	0.00E+00	9.20E+00
Zr-95	<6.27E+00	0.00E+00	6.27E+00
Nb-95	<4.94E+00	0.00E+00	4.94E+00
I-131	<1.43E+01	0.00E+00	1.43E+01
Cs-134	<3.40E+00	0.00E+00	3.40E+00
Cs-137	<4.17E+00	0.00E+00	4.17E+00
BaLa-140	<1.16E+01	0.00E+00	1.16E+01
Be-7	<4.09E+01	0.00E+00	4.09E+01
K-40	1.78E+02	3.21E+01	4.40E+01

Sample ID: 289119 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.65E+00	4.05E-01	1.26E+00
Mn-54	<3.60E+00	0.00E+00	3.60E+00
Co-58	<3.30E+00	0.00E+00	3.30E+00
Fe-59	<7.87E+00	0.00E+00	7.87E+00
Co-60	<3.31E+00	0.00E+00	3.31E+00
Zn-65	<7.36E+00	0.00E+00	7.36E+00
Zr-95	<6.21E+00	0.00E+00	6.21E+00
Nb-95	<4.62E+00	0.00E+00	4.62E+00
I-131	<1.38E+01	0.00E+00	1.38E+01
Cs-134	<3.17E+00	0.00E+00	3.17E+00
Cs-137	<4.02E+00	0.00E+00	4.02E+00
BaLa-140	<8.11E+00	0.00E+00	8.11E+00
Be-7	<3.36E+01	0.00E+00	3.36E+01
K-40	1.92E+02	2.12E+01	3.08E+01

Sample ID: 292814 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.39E+00	3.93E-01	1.24E+00
Mn-54	<2.73E+00	0.00E+00	2.73E+00
Co-58	<3.74E+00	0.00E+00	3.74E+00
Fe-59	<7.35E+00	0.00E+00	7.35E+00
Co-60	<5.72E+00	0.00E+00	5.72E+00
Zn-65	<7.38E+00	0.00E+00	7.38E+00
Zr-95	<7.69E+00	0.00E+00	7.69E+00
Nb-95	<4.91E+00	0.00E+00	4.91E+00
I-131	<1.30E+01	0.00E+00	1.30E+01
Cs-134	<3.21E+00	0.00E+00	3.21E+00
Cs-137	<4.32E+00	0.00E+00	4.32E+00
BaLa-140	<1.21E+01	0.00E+00	1.21E+01
Be-7	<3.50E+01	0.00E+00	3.50E+01
K-40	3.43E+01	1.67E+01	3.35E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample ID:	295218	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide	Activity	Sigma Error [1]	LLD
			H3DW	5.98E+02	6.64E+01	1.87E+02
Sample ID:	**295477**	**Sample Dates: 4/28/2014 - 5/27/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.12E+00	3.86E-01	1.23E+00
			Mn-54	<3.18E+00	0.00E+00	3.18E+00
			Co-58	<3.98E+00	0.00E+00	3.98E+00
			Fe-59	<7.28E+00	0.00E+00	7.28E+00
			Co-60	<3.86E+00	0.00E+00	3.86E+00
			Zn-65	<8.13E+00	0.00E+00	8.13E+00
			Zr-95	<7.67E+00	0.00E+00	7.67E+00
			Nb-95	<4.30E+00	0.00E+00	4.30E+00
			I-131	<1.33E+01	0.00E+00	1.33E+01
			Cs-134	<3.33E+00	0.00E+00	3.33E+00
			Cs-137	<3.58E+00	0.00E+00	3.58E+00
			BaLa-140	<6.97E+00	0.00E+00	6.97E+00
			Be-7	<3.71E+01	0.00E+00	3.71E+01
			K-40	1.87E+02	2.29E+01	3.38E+01
Sample ID:	**296985**	**Sample Dates: 5/27/2014 - 6/23/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	2.36E+00	8.05E-01	1.21E+00
			Mn-54	<3.32E+00	0.00E+00	3.32E+00
			Co-58	<4.73E+00	0.00E+00	4.73E+00
			Fe-59	<7.06E+00	0.00E+00	7.06E+00
			Co-60	<4.08E+00	0.00E+00	4.08E+00
			Zn-65	<8.29E+00	0.00E+00	8.29E+00
			Zr-95	<8.31E+00	0.00E+00	8.31E+00
			Nb-95	<5.12E+00	0.00E+00	5.12E+00
			I-131	<1.42E+01	0.00E+00	1.42E+01
			Cs-134	<4.07E+00	0.00E+00	4.07E+00
			Cs-137	<4.60E+00	0.00E+00	4.60E+00
			BaLa-140	<9.27E+00	0.00E+00	9.27E+00
			Be-7	<4.11E+01	0.00E+00	4.11E+01
			K-40	1.88E+02	2.74E+01	3.75E+01
Sample ID:	**350541**	**Sample Dates: 6/23/2014 - 7/21/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	2.24E+00	7.76E-01	1.17E+00
			Mn-54	<2.49E+00	0.00E+00	2.49E+00
			Co-58	<2.95E+00	0.00E+00	2.95E+00
			Fe-59	<6.15E+00	0.00E+00	6.15E+00
			Co-60	<3.09E+00	0.00E+00	3.09E+00
			Zn-65	<6.57E+00	0.00E+00	6.57E+00
			Zr-95	<5.96E+00	0.00E+00	5.96E+00
			Nb-95	<3.80E+00	0.00E+00	3.80E+00
			I-131	<1.11E+01	0.00E+00	1.11E+01
			Cs-134	<2.34E+00	0.00E+00	2.34E+00
			Cs-137	<3.35E+00	0.00E+00	3.35E+00
			BaLa-140	<9.58E+00	0.00E+00	9.58E+00
			Be-7	<2.99E+01	0.00E+00	2.99E+01
			K-40	1.04E+02	3.83E+01	5.04E+01
Sample ID:	**351610**	**Sample Dates: 7/21/2014 - 8/18/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	2.05E+00	7.81E-01	1.19E+00
			Mn-54	<3.01E+00	0.00E+00	3.01E+00
			Co-58	<3.41E+00	0.00E+00	3.41E+00
			Fe-59	<5.54E+00	0.00E+00	5.54E+00
			Co-60	<2.84E+00	0.00E+00	2.84E+00
			Zn-65	<6.59E+00	0.00E+00	6.59E+00
			Zr-95	<6.17E+00	0.00E+00	6.17E+00
			Nb-95	<4.01E+00	0.00E+00	4.01E+00
			I-131	<1.07E+01	0.00E+00	1.07E+01
			Cs-134	<3.46E+00	0.00E+00	3.46E+00
			Cs-137	<3.04E+00	0.00E+00	3.04E+00
			BaLa-140	<5.85E+00	0.00E+00	5.85E+00
			Be-7	<2.91E+01	0.00E+00	2.91E+01
			K-40	1.43E+02	3.76E+01	4.20E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Sample ID:	354200	Sample Dates: 5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error [1]	LLD
			H3DW	5.79E+02	1.27E+02	1.87E+02
Sample ID:	**354587**	**Sample Dates: 8/18/2014 - 9/15/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	9.53E-01	8.62E-01	1.45E+00
			Mn-54	<3.73E+00	0.00E+00	3.73E+00
			Co-58	<5.32E+00	0.00E+00	5.32E+00
			Fe-59	<1.19E+01	0.00E+00	1.19E+01
			Co-60	<5.60E+00	0.00E+00	5.60E+00
			Zn-65	<6.00E+00	0.00E+00	6.00E+00
			Zr-95	<7.30E+00	0.00E+00	7.30E+00
			Nb-95	<3.97E+00	0.00E+00	3.97E+00
			I-131	<1.19E+01	0.00E+00	1.19E+01
			Cs-134	<4.01E+00	0.00E+00	4.01E+00
			Cs-137	<4.04E+00	0.00E+00	4.04E+00
			BaLa-140	<8.70E+00	0.00E+00	8.70E+00
			Be-7	<4.09E+01	0.00E+00	4.09E+01
			K-40	<7.96E+01	0.00E+00	7.96E+01
Sample ID:	**356858**	**Sample Dates: 9/15/2014 - 10/13/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	4.64E+00	9.00E-01	1.22E+00
			Mn-54	<3.46E+00	0.00E+00	3.46E+00
			Co-58	<4.14E+00	0.00E+00	4.14E+00
			Fe-59	<7.18E+00	0.00E+00	7.18E+00
			Co-60	<2.79E+00	0.00E+00	2.79E+00
			Zn-65	<6.32E+00	0.00E+00	6.32E+00
			Zr-95	<8.02E+00	0.00E+00	8.02E+00
			Nb-95	<5.30E+00	0.00E+00	5.30E+00
			I-131	<1.06E+01	0.00E+00	1.06E+01
			Cs-134	<4.14E+00	0.00E+00	4.14E+00
			Cs-137	<3.66E+00	0.00E+00	3.66E+00
			BaLa-140	<7.23E+00	0.00E+00	7.23E+00
			Be-7	<2.80E+01	0.00E+00	2.80E+01
			K-40	1.11E+02	4.71E+01	6.46E+01
Sample ID:	**359749**	**Sample Dates: 10/13/2014 - 11/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.28E+00	7.80E-01	1.27E+00
			Mn-54	<1.98E+00	0.00E+00	1.98E+00
			Co-58	<2.26E+00	0.00E+00	2.26E+00
			Fe-59	<4.24E+00	0.00E+00	4.24E+00
			Co-60	<1.98E+00	0.00E+00	1.98E+00
			Zn-65	<4.35E+00	0.00E+00	4.35E+00
			Zr-95	<3.80E+00	0.00E+00	3.80E+00
			Nb-95	<2.72E+00	0.00E+00	2.72E+00
			I-131	<1.06E+01	0.00E+00	1.06E+01
			Cs-134	<2.18E+00	0.00E+00	2.18E+00
			Cs-137	<2.15E+00	0.00E+00	2.15E+00
			BaLa-140	<6.40E+00	0.00E+00	6.40E+00
			Be-7	<1.95E+01	0.00E+00	1.95E+01
			K-40	3.13E+01	1.73E+01	2.47E+01
Sample ID:	**362146**	**Sample Dates: 11/10/2014 - 12/8/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	8.04E-01	8.03E-01	1.34E+00
			Mn-54	<1.44E+00	0.00E+00	1.44E+00
			Co-58	<1.82E+00	0.00E+00	1.82E+00
			Fe-59	<3.09E+00	0.00E+00	3.09E+00
			Co-60	<1.34E+00	0.00E+00	1.34E+00
			Zn-65	<3.05E+00	0.00E+00	3.05E+00
			Zr-95	<2.64E+00	0.00E+00	2.64E+00
			Nb-95	<2.04E+00	0.00E+00	2.04E+00
			I-131	<1.03E+01	0.00E+00	1.03E+01
			Cs-134	<1.73E+00	0.00E+00	1.73E+00
			Cs-137	<1.36E+00	0.00E+00	1.36E+00
			BaLa-140	<5.18E+00	0.00E+00	5.18E+00
			Be-7	<1.38E+01	0.00E+00	1.38E+01
			K-40	2.37E+01	1.71E+01	2.67E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 132 [INDICATOR - SSE @ 11.1 miles]

Sample ID:	364863	Sample Dates: 8/18/2014 - 12/8/2014	Nuclide	Activity	Sigma Error [1]	LLD
			H3DW	6.26E+02	1.35E+02	1.99E+02

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID:	280861	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Beta	2.11E+00	3.93E-01	1.16E+00
			Mn-54	<3.33E+00	0.00E+00	3.33E+00
			Co-58	<3.97E+00	0.00E+00	3.97E+00
			Fe-59	<6.92E+00	0.00E+00	6.92E+00
			Co-60	<3.64E+00	0.00E+00	3.64E+00
			Zn-65	<7.23E+00	0.00E+00	7.23E+00
			Zr-95	<7.02E+00	0.00E+00	7.02E+00
			Nb-95	<4.41E+00	0.00E+00	4.41E+00
			I-131	<1.38E+01	0.00E+00	1.38E+01
			Cs-134	<3.52E+00	0.00E+00	3.52E+00
			Cs-137	<3.49E+00	0.00E+00	3.49E+00
			BaLa-140	<8.18E+00	0.00E+00	8.18E+00
			Be-7	<3.63E+01	0.00E+00	3.63E+01
			K-40	1.76E+02	2.32E+01	3.62E+01
Sample ID:	**282976**	**Sample Dates: 1/6/2014 - 2/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.42E+00	4.14E-01	1.31E+00
			Mn-54	<3.83E+00	0.00E+00	3.83E+00
			Co-58	<3.80E+00	0.00E+00	3.80E+00
			Fe-59	<9.69E+00	0.00E+00	9.69E+00
			Co-60	<4.07E+00	0.00E+00	4.07E+00
			Zn-65	<8.50E+00	0.00E+00	8.50E+00
			Zr-95	<8.38E+00	0.00E+00	8.38E+00
			Nb-95	<5.10E+00	0.00E+00	5.10E+00
			I-131	<1.44E+01	0.00E+00	1.44E+01
			Cs-134	<3.67E+00	0.00E+00	3.67E+00
			Cs-137	<4.14E+00	0.00E+00	4.14E+00
			BaLa-140	<1.05E+01	0.00E+00	1.05E+01
			Be-7	<3.97E+01	0.00E+00	3.97E+01
			K-40	1.71E+02	2.59E+01	4.74E+01
Sample ID:	**284701**	**Sample Dates: 12/9/2013 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			H3DW	<3.78E+01	0.00E+00	1.89E+02
Sample ID:	**285756**	**Sample Dates: 2/3/2014 - 3/3/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.71E+00	4.10E-01	1.27E+00
			Mn-54	<3.01E+00	0.00E+00	3.01E+00
			Co-58	<3.75E+00	0.00E+00	3.75E+00
			Fe-59	<7.93E+00	0.00E+00	7.93E+00
			Co-60	<5.26E+00	0.00E+00	5.26E+00
			Zn-65	<7.20E+00	0.00E+00	7.20E+00
			Zr-95	<6.76E+00	0.00E+00	6.76E+00
			Nb-95	<5.12E+00	0.00E+00	5.12E+00
			I-131	<1.21E+01	0.00E+00	1.21E+01
			Cs-134	<2.63E+00	0.00E+00	2.63E+00
			Cs-137	<3.64E+00	0.00E+00	3.64E+00
			BaLa-140	<9.48E+00	0.00E+00	9.48E+00
			Be-7	<3.20E+01	0.00E+00	3.20E+01
			K-40	9.22E+01	2.10E+01	3.09E+01
Sample ID:	**289120**	**Sample Dates: 3/3/2014 - 3/31/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.23E+00	3.93E-01	1.25E+00
			Mn-54	<2.85E+00	0.00E+00	2.85E+00
			Co-58	<3.68E+00	0.00E+00	3.68E+00
			Fe-59	<6.29E+00	0.00E+00	6.29E+00
			Co-60	<4.91E+00	0.00E+00	4.91E+00
			Zn-65	<8.18E+00	0.00E+00	8.18E+00
			Zr-95	<6.91E+00	0.00E+00	6.91E+00
			Nb-95	<4.18E+00	0.00E+00	4.18E+00
			I-131	<1.08E+01	0.00E+00	1.08E+01
			Cs-134	<3.61E+00	0.00E+00	3.61E+00
			Cs-137	<3.87E+00	0.00E+00	3.87E+00
			BaLa-140	<8.92E+00	0.00E+00	8.92E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID: 289120 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<3.48E+01	0.00E+00	3.48E+01
K-40	6.69E+01	1.74E+01	3.78E+01

Sample ID: 292815 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.49E+00	3.94E-01	1.23E+00
Mn-54	<4.31E+00	0.00E+00	4.31E+00
Co-58	<3.12E+00	0.00E+00	3.12E+00
Fe-59	<8.24E+00	0.00E+00	8.24E+00
Co-60	<3.96E+00	0.00E+00	3.96E+00
Zn-65	<7.08E+00	0.00E+00	7.08E+00
Zr-95	<7.53E+00	0.00E+00	7.53E+00
Nb-95	<4.57E+00	0.00E+00	4.57E+00
I-131	<1.20E+01	0.00E+00	1.20E+01
Cs-134	<2.99E+00	0.00E+00	2.99E+00
Cs-137	<4.38E+00	0.00E+00	4.38E+00
BaLa-140	<1.25E+01	0.00E+00	1.25E+01
Be-7	<3.70E+01	0.00E+00	3.70E+01
K-40	3.82E+01	1.47E+01	3.92E+01

Sample ID: 295219 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	<-5.1E+01	0.00E+00	1.88E+02

Sample ID: 295478 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.67E+00	4.23E-01	1.23E+00
Mn-54	<3.10E+00	0.00E+00	3.10E+00
Co-58	<3.24E+00	0.00E+00	3.24E+00
Fe-59	<7.83E+00	0.00E+00	7.83E+00
Co-60	<3.27E+00	0.00E+00	3.27E+00
Zn-65	<7.15E+00	0.00E+00	7.15E+00
Zr-95	<7.79E+00	0.00E+00	7.79E+00
Nb-95	<5.06E+00	0.00E+00	5.06E+00
I-131	<1.43E+01	0.00E+00	1.43E+01
Cs-134	<3.60E+00	0.00E+00	3.60E+00
Cs-137	<3.68E+00	0.00E+00	3.68E+00
BaLa-140	<7.59E+00	0.00E+00	7.59E+00
Be-7	<3.11E+01	0.00E+00	3.11E+01
K-40	2.08E+02	2.29E+01	3.25E+01

Sample ID: 296986 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.92E+00	7.83E-01	1.21E+00
Mn-54	<3.31E+00	0.00E+00	3.31E+00
Co-58	<4.29E+00	0.00E+00	4.29E+00
Fe-59	<1.12E+01	0.00E+00	1.12E+01
Co-60	<4.72E+00	0.00E+00	4.72E+00
Zn-65	<7.62E+00	0.00E+00	7.62E+00
Zr-95	<8.55E+00	0.00E+00	8.55E+00
Nb-95	<6.19E+00	0.00E+00	6.19E+00
I-131	<1.27E+01	0.00E+00	1.27E+01
Cs-134	<4.61E+00	0.00E+00	4.61E+00
Cs-137	<4.78E+00	0.00E+00	4.78E+00
BaLa-140	<9.99E+00	0.00E+00	9.99E+00
Be-7	<4.61E+01	0.00E+00	4.61E+01
K-40	4.84E+01	1.83E+01	3.42E+01

Sample ID: 350542 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.03E+00	7.65E-01	1.17E+00
Mn-54	<2.16E+00	0.00E+00	2.16E+00
Co-58	<2.68E+00	0.00E+00	2.68E+00
Fe-59	<6.30E+00	0.00E+00	6.30E+00
Co-60	<2.88E+00	0.00E+00	2.88E+00
Zn-65	<5.00E+00	0.00E+00	5.00E+00
Zr-95	<4.41E+00	0.00E+00	4.41E+00
Nb-95	<2.77E+00	0.00E+00	2.77E+00
I-131	<1.17E+01	0.00E+00	1.17E+01
Cs-134	<2.16E+00	0.00E+00	2.16E+00
Cs-137	<2.76E+00	0.00E+00	2.76E+00
BaLa-140	<6.83E+00	0.00E+00	6.83E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 350542 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<2.46E+01	0.00E+00	2.46E+01
K-40	1.08E+02	2.76E+01	2.91E+01

Sample ID: 351611 **Sample Dates: 7/21/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.24E+00	7.90E-01	1.19E+00
Mn-54	<3.49E+00	0.00E+00	3.49E+00
Co-58	<1.85E+00	0.00E+00	1.85E+00
Fe-59	<5.35E+00	0.00E+00	5.35E+00
Co-60	<2.95E+00	0.00E+00	2.95E+00
Zn-65	<6.39E+00	0.00E+00	6.39E+00
Zr-95	<6.83E+00	0.00E+00	6.83E+00
Nb-95	<4.30E+00	0.00E+00	4.30E+00
I-131	<1.09E+01	0.00E+00	1.09E+01
Cs-134	<4.06E+00	0.00E+00	4.06E+00
Cs-137	<3.21E+00	0.00E+00	3.21E+00
BaLa-140	<8.87E+00	0.00E+00	8.87E+00
Be-7	<3.00E+01	0.00E+00	3.00E+01
K-40	<4.99E+01	0.00E+00	4.99E+01

Sample ID: 354201 **Sample Dates: 5/27/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	<4.77E+01	0.00E+00	1.88E+02

Sample ID: 354588 **Sample Dates: 8/18/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	3.34E+00	9.54E-01	1.45E+00
Mn-54	<3.46E+00	0.00E+00	3.46E+00
Co-58	<3.82E+00	0.00E+00	3.82E+00
Fe-59	<6.55E+00	0.00E+00	6.55E+00
Co-60	<3.98E+00	0.00E+00	3.98E+00
Zn-65	<8.25E+00	0.00E+00	8.25E+00
Zr-95	<7.98E+00	0.00E+00	7.98E+00
Nb-95	<4.89E+00	0.00E+00	4.89E+00
I-131	<1.12E+01	0.00E+00	1.12E+01
Cs-134	<3.44E+00	0.00E+00	3.44E+00
Cs-137	<3.00E+00	0.00E+00	3.00E+00
BaLa-140	<8.89E+00	0.00E+00	8.89E+00
Be-7	<2.48E+01	0.00E+00	2.48E+01
K-40	4.49E+01	3.01E+01	4.21E+01

Sample ID: 356859 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	3.12E+00	8.38E-01	1.21E+00
Mn-54	<4.37E+00	0.00E+00	4.37E+00
Co-58	<5.34E+00	0.00E+00	5.34E+00
Fe-59	<7.17E+00	0.00E+00	7.17E+00
Co-60	<4.42E+00	0.00E+00	4.42E+00
Zn-65	<8.70E+00	0.00E+00	8.70E+00
Zr-95	<8.86E+00	0.00E+00	8.86E+00
Nb-95	<5.46E+00	0.00E+00	5.46E+00
I-131	<1.20E+01	0.00E+00	1.20E+01
Cs-134	<5.05E+00	0.00E+00	5.05E+00
Cs-137	<3.14E+00	0.00E+00	3.14E+00
BaLa-140	<1.02E+01	0.00E+00	1.02E+01
Be-7	<3.37E+01	0.00E+00	3.37E+01
K-40	1.28E+02	5.33E+01	6.83E+01

Sample ID: 359750 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.09E+00	7.73E-01	1.27E+00
Mn-54	<2.17E+00	0.00E+00	2.17E+00
Co-58	<2.43E+00	0.00E+00	2.43E+00
Fe-59	<5.05E+00	0.00E+00	5.05E+00
Co-60	<2.04E+00	0.00E+00	2.04E+00
Zn-65	<4.15E+00	0.00E+00	4.15E+00
Zr-95	<4.10E+00	0.00E+00	4.10E+00
Nb-95	<2.92E+00	0.00E+00	2.92E+00
I-131	<1.19E+01	0.00E+00	1.19E+01
Cs-134	<2.42E+00	0.00E+00	2.42E+00
Cs-137	<1.89E+00	0.00E+00	1.89E+00
BaLa-140	<5.87E+00	0.00E+00	5.87E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 136 [CONTROL - NNE @ 12.7 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
359750	10/13/2014 - 11/10/2014	Be-7	<1.92E+01	0.00E+00	1.92E+01
		K-40	1.73E+02	3.01E+01	2.95E+01
362147	11/10/2014 - 12/8/2014	Beta	1.02E+00	8.10E-01	1.33E+00
		Mn-54	<1.80E+00	0.00E+00	1.80E+00
		Co-58	<2.06E+00	0.00E+00	2.06E+00
		Fe-59	<3.94E+00	0.00E+00	3.94E+00
		Co-60	<1.86E+00	0.00E+00	1.86E+00
		Zn-65	<3.23E+00	0.00E+00	3.23E+00
		Zr-95	<3.84E+00	0.00E+00	3.84E+00
		Nb-95	<2.67E+00	0.00E+00	2.67E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<1.97E+00	0.00E+00	1.97E+00
		Cs-137	<1.47E+00	0.00E+00	1.47E+00
		BaLa-140	<6.70E+00	0.00E+00	6.70E+00
		Be-7	<1.64E+01	0.00E+00	1.64E+01
		K-40	1.07E+02	2.34E+01	2.90E+01
364864	8/18/2014 - 12/8/2014	H3DW	<2.52E+01	0.00E+00	1.99E+02

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
280862	12/9/2013 - 1/6/2014	Beta	1.65E+00	3.82E-01	1.17E+00
		Mn-54	<4.54E+00	0.00E+00	4.54E+00
		Co-58	<4.88E+00	0.00E+00	4.88E+00
		Fe-59	<9.64E+00	0.00E+00	9.64E+00
		Co-60	<3.63E+00	0.00E+00	3.63E+00
		Zn-65	<7.92E+00	0.00E+00	7.92E+00
		Zr-95	<8.45E+00	0.00E+00	8.45E+00
		Nb-95	<5.88E+00	0.00E+00	5.88E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.84E+00	0.00E+00	3.84E+00
		Cs-137	<4.35E+00	0.00E+00	4.35E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<4.66E+01	0.00E+00	4.66E+01
		K-40	1.52E+02	2.28E+01	3.18E+01
282977	1/6/2014 - 2/3/2014	Beta	1.03E+00	4.07E-01	1.31E+00
		Mn-54	<4.49E+00	0.00E+00	4.49E+00
		Co-58	<4.37E+00	0.00E+00	4.37E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<9.06E+00	0.00E+00	9.06E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<9.62E+00	0.00E+00	9.62E+00
		Nb-95	<6.58E+00	0.00E+00	6.58E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<5.60E+00	0.00E+00	5.60E+00
		Cs-137	<7.65E+00	0.00E+00	7.65E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	4.41E+01	1.45E+01	4.84E+01
		K-40	<9.46E+01	0.00E+00	9.46E+01
284702	12/9/2013 - 3/3/2014	H3DW	<-1.4E+01	0.00E+00	1.89E+02
285757	2/3/2014 - 3/3/2014	Beta	2.04E+00	4.19E-01	1.27E+00
		Mn-54	<3.84E+00	0.00E+00	3.84E+00
		Co-58	<4.05E+00	0.00E+00	4.05E+00
		Fe-59	<7.39E+00	0.00E+00	7.39E+00
		Co-60	<3.49E+00	0.00E+00	3.49E+00
		Zn-65	<6.19E+00	0.00E+00	6.19E+00
		Zr-95	<6.73E+00	0.00E+00	6.73E+00
		Nb-95	<4.22E+00	0.00E+00	4.22E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID: 285757 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.27E+01	0.00E+00	1.27E+01
Cs-134	<2.87E+00	0.00E+00	2.87E+00
Cs-137	<3.05E+00	0.00E+00	3.05E+00
BaLa-140	<8.41E+00	0.00E+00	8.41E+00
Be-7	<3.14E+01	0.00E+00	3.14E+01
K-40	1.72E+02	2.59E+01	3.36E+01

Sample ID: 289121 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	9.34E-01	3.89E-01	1.26E+00
Mn-54	<2.54E+00	0.00E+00	2.54E+00
Co-58	<2.78E+00	0.00E+00	2.78E+00
Fe-59	<6.40E+00	0.00E+00	6.40E+00
Co-60	<3.42E+00	0.00E+00	3.42E+00
Zn-65	<4.99E+00	0.00E+00	4.99E+00
Zr-95	<4.62E+00	0.00E+00	4.62E+00
Nb-95	<3.69E+00	0.00E+00	3.69E+00
I-131	<8.86E+00	0.00E+00	8.86E+00
Cs-134	<2.38E+00	0.00E+00	2.38E+00
Cs-137	<2.92E+00	0.00E+00	2.92E+00
BaLa-140	<5.84E+00	0.00E+00	5.84E+00
Be-7	<2.64E+01	0.00E+00	2.64E+01
K-40	8.05E+01	1.76E+01	2.70E+01

Sample ID: 292816 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.11E+00	3.87E-01	1.23E+00
Mn-54	<3.34E+00	0.00E+00	3.34E+00
Co-58	<3.76E+00	0.00E+00	3.76E+00
Fe-59	<1.03E+01	0.00E+00	1.03E+01
Co-60	<3.44E+00	0.00E+00	3.44E+00
Zn-65	<9.16E+00	0.00E+00	9.16E+00
Zr-95	<6.17E+00	0.00E+00	6.17E+00
Nb-95	<4.99E+00	0.00E+00	4.99E+00
I-131	<1.44E+01	0.00E+00	1.44E+01
Cs-134	<2.96E+00	0.00E+00	2.96E+00
Cs-137	<3.89E+00	0.00E+00	3.89E+00
BaLa-140	<8.20E+00	0.00E+00	8.20E+00
Be-7	<4.59E+01	0.00E+00	4.59E+01
K-40	1.37E+02	2.32E+01	3.31E+01

Sample ID: 295220 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	<7.45E+01	0.00E+00	1.88E+02

Sample ID: 295479 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.77E+00	4.00E-01	1.23E+00
Mn-54	<5.34E+00	0.00E+00	5.34E+00
Co-58	<5.88E+00	0.00E+00	5.88E+00
Fe-59	<1.17E+01	0.00E+00	1.17E+01
Co-60	<6.57E+00	0.00E+00	6.57E+00
Zn-65	<1.00E+01	0.00E+00	1.00E+01
Zr-95	<7.24E+00	0.00E+00	7.24E+00
Nb-95	<6.34E+00	0.00E+00	6.34E+00
I-131	<1.36E+01	0.00E+00	1.36E+01
Cs-134	<3.73E+00	0.00E+00	3.73E+00
Cs-137	<5.63E+00	0.00E+00	5.63E+00
BaLa-140	<1.14E+01	0.00E+00	1.14E+01
Be-7	<4.24E+01	0.00E+00	4.24E+01
K-40	<8.48E+01	0.00E+00	8.48E+01

Sample ID: 296987 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.60E+00	8.11E-01	1.20E+00
Mn-54	<4.61E+00	0.00E+00	4.61E+00
Co-58	<2.57E+00	0.00E+00	2.57E+00
Fe-59	<1.10E+01	0.00E+00	1.10E+01
Co-60	<3.65E+00	0.00E+00	3.65E+00
Zn-65	<1.06E+01	0.00E+00	1.06E+01
Zr-95	<8.87E+00	0.00E+00	8.87E+00
Nb-95	<5.77E+00	0.00E+00	5.77E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 296987 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.43E+01	0.00E+00	1.43E+01
Cs-134	<4.41E+00	0.00E+00	4.41E+00
Cs-137	<5.07E+00	0.00E+00	5.07E+00
BaLa-140	<9.53E+00	0.00E+00	9.53E+00
Be-7	<3.93E+01	0.00E+00	3.93E+01
K-40	1.25E+02	2.30E+01	4.35E+01

Sample ID: 350543 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.18E+00	7.73E-01	1.17E+00
Mn-54	<2.83E+00	0.00E+00	2.83E+00
Co-58	<3.45E+00	0.00E+00	3.45E+00
Fe-59	<6.14E+00	0.00E+00	6.14E+00
Co-60	<2.57E+00	0.00E+00	2.57E+00
Zn-65	<5.39E+00	0.00E+00	5.39E+00
Zr-95	<5.50E+00	0.00E+00	5.50E+00
Nb-95	<3.75E+00	0.00E+00	3.75E+00
I-131	<1.19E+01	0.00E+00	1.19E+01
Cs-134	<2.26E+00	0.00E+00	2.26E+00
Cs-137	<2.46E+00	0.00E+00	2.46E+00
BaLa-140	<6.64E+00	0.00E+00	6.64E+00
Be-7	<2.78E+01	0.00E+00	2.78E+01
K-40	2.06E+02	4.02E+01	3.87E+01

Sample ID: 351612 **Sample Dates: 7/21/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.18E+00	7.86E-01	1.19E+00
Mn-54	<4.00E+00	0.00E+00	4.00E+00
Co-58	<4.16E+00	0.00E+00	4.16E+00
Fe-59	<6.41E+00	0.00E+00	6.41E+00
Co-60	<4.64E+00	0.00E+00	4.64E+00
Zn-65	<8.37E+00	0.00E+00	8.37E+00
Zr-95	<7.74E+00	0.00E+00	7.74E+00
Nb-95	<4.47E+00	0.00E+00	4.47E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<4.18E+00	0.00E+00	4.18E+00
Cs-137	<3.69E+00	0.00E+00	3.69E+00
BaLa-140	<9.09E+00	0.00E+00	9.09E+00
Be-7	<2.97E+01	0.00E+00	2.97E+01
K-40	4.22E+01	4.14E+01	6.55E+01

Sample ID: 354202 **Sample Dates: 5/27/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3DW	2.54E+02	1.18E+02	1.89E+02

Sample ID: 354589 **Sample Dates: 8/18/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	1.32E+00	8.77E-01	1.45E+00
Mn-54	<4.20E+00	0.00E+00	4.20E+00
Co-58	<3.78E+00	0.00E+00	3.78E+00
Fe-59	<6.61E+00	0.00E+00	6.61E+00
Co-60	<3.57E+00	0.00E+00	3.57E+00
Zn-65	<6.84E+00	0.00E+00	6.84E+00
Zr-95	<7.29E+00	0.00E+00	7.29E+00
Nb-95	<4.76E+00	0.00E+00	4.76E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<4.05E+00	0.00E+00	4.05E+00
Cs-137	<3.38E+00	0.00E+00	3.38E+00
BaLa-140	<6.75E+00	0.00E+00	6.75E+00
Be-7	<3.41E+01	0.00E+00	3.41E+01
K-40	1.97E+02	5.05E+01	5.40E+01

Sample ID: 356860 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Beta	2.38E+00	8.15E-01	1.23E+00
Mn-54	<3.17E+00	0.00E+00	3.17E+00
Co-58	<3.89E+00	0.00E+00	3.89E+00
Fe-59	<6.91E+00	0.00E+00	6.91E+00
Co-60	<3.60E+00	0.00E+00	3.60E+00
Zn-65	<6.45E+00	0.00E+00	6.45E+00
Zr-95	<6.71E+00	0.00E+00	6.71E+00
Nb-95	<4.47E+00	0.00E+00	4.47E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 194 [INDICATOR - NNW @ 6.73 miles]

Sample ID:	356860	Sample Dates: 9/15/2014 - 10/13/2014				
			Nuclide	Activity	Sigma Error [1]	LLD
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<3.46E+00	0.00E+00	3.46E+00
			Cs-137	<3.00E+00	0.00E+00	3.00E+00
			BaLa-140	<6.91E+00	0.00E+00	6.91E+00
			Be-7	<2.98E+01	0.00E+00	2.98E+01
			K-40	1.51E+02	4.06E+01	4.30E+01
Sample ID:	**359751**	**Sample Dates: 10/13/2014 - 11/10/2014**				
			Nuclide	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	2.01E+00	8.15E-01	1.27E+00
			Mn-54	<2.44E+00	0.00E+00	2.44E+00
			Co-58	<2.87E+00	0.00E+00	2.87E+00
			Fe-59	<6.17E+00	0.00E+00	6.17E+00
			Co-60	<2.93E+00	0.00E+00	2.93E+00
			Zn-65	<5.04E+00	0.00E+00	5.04E+00
			Zr-95	<4.94E+00	0.00E+00	4.94E+00
			Nb-95	<3.88E+00	0.00E+00	3.88E+00
			I-131	<9.68E+00	0.00E+00	9.68E+00
			Cs-134	<3.13E+00	0.00E+00	3.13E+00
			Cs-137	<2.47E+00	0.00E+00	2.47E+00
			BaLa-140	<7.11E+00	0.00E+00	7.11E+00
			Be-7	<2.29E+01	0.00E+00	2.29E+01
			K-40	1.00E+02	2.64E+01	2.83E+01
Sample ID:	**362148**	**Sample Dates: 11/10/2014 - 12/8/2014**				
			Nuclide	**Activity**	**Sigma Error [1]**	**LLD**
			Beta	1.48E+00	8.31E-01	1.34E+00
			Mn-54	<1.33E+00	0.00E+00	1.33E+00
			Co-58	<1.50E+00	0.00E+00	1.50E+00
			Fe-59	<3.40E+00	0.00E+00	3.40E+00
			Co-60	<1.30E+00	0.00E+00	1.30E+00
			Zn-65	<2.57E+00	0.00E+00	2.57E+00
			Zr-95	<2.97E+00	0.00E+00	2.97E+00
			Nb-95	<1.94E+00	0.00E+00	1.94E+00
			I-131	<1.03E+01	0.00E+00	1.03E+01
			Cs-134	<1.48E+00	0.00E+00	1.48E+00
			Cs-137	<1.21E+00	0.00E+00	1.21E+00
			BaLa-140	<4.70E+00	0.00E+00	4.70E+00
			Be-7	<1.24E+01	0.00E+00	1.24E+01
			K-40	1.63E+02	2.16E+01	1.80E+01
Sample ID:	**364865**	**Sample Dates: 8/18/2014 - 12/8/2014**				
			Nuclide	**Activity**	**Sigma Error [1]**	**LLD**
			H3DW	<9.56E+01	0.00E+00	1.99E+02

Media Type: FISH Concentration (Activity): Unknown

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID:	287068	Sample Dates: 4/9/2014 - 4/9/2014	BOTMFEEDER			
			Nuclide	Activity	Sigma Error [1]	LLD
			Mn-54	<1.42E+01	0.00E+00	1.42E+01
			Co-58	<1.28E+01	0.00E+00	1.28E+01
			Fe-59	<3.35E+01	0.00E+00	3.35E+01
			Co-60	<1.70E+01	0.00E+00	1.70E+01
			Zn-65	<3.64E+01	0.00E+00	3.64E+01
			Nb-95	<1.10E+01	0.00E+00	1.10E+01
			I-131	<1.18E+01	0.00E+00	1.18E+01
			Cs-134	<1.47E+01	0.00E+00	1.47E+01
			Cs-137	1.06E+01	6.31E+00	1.63E+01
			Be-7	<9.34E+01	0.00E+00	9.34E+01
			K-40	3.03E+03	2.28E+02	1.46E+02
			Ag-110M	<9.74E+00	0.00E+00	9.74E+00
			Sb-122	<1.68E+01	0.00E+00	1.68E+01
			Sb-125	<3.18E+01	0.00E+00	3.18E+01
Sample ID:	**287070**	**Sample Dates: 4/9/2014 - 4/9/2014**	**FREESWIM**			
			Nuclide	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<1.54E+01	0.00E+00	1.54E+01
			Co-58	<1.15E+01	0.00E+00	1.15E+01
			Fe-59	<4.12E+01	0.00E+00	4.12E+01
			Co-60	<1.85E+01	0.00E+00	1.85E+01
			Zn-65	<4.04E+01	0.00E+00	4.04E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 287070 **Sample Dates: 4/9/2014 - 4/9/2014** **FREESWIM**

Nuclide	Activity	Sigma Error [1]	LLD
Nb-95	<1.52E+01	0.00E+00	1.52E+01
I-131	<1.65E+01	0.00E+00	1.65E+01
Cs-134	<1.79E+01	0.00E+00	1.79E+01
Cs-137	<1.73E+01	0.00E+00	1.73E+01
Be-7	<1.33E+02	0.00E+00	1.33E+02
K-40	3.07E+03	2.02E+02	1.60E+02
Ag-110M	<1.34E+01	0.00E+00	1.34E+01
Sb-122	<2.12E+01	0.00E+00	2.12E+01
Sb-125	<4.39E+01	0.00E+00	4.39E+01

Sample ID: 287072 **Sample Dates: 4/9/2014 - 4/9/2014** **FREESWIM**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.96E+01	0.00E+00	2.96E+01
Co-58	<2.95E+01	0.00E+00	2.95E+01
Fe-59	<4.74E+01	0.00E+00	4.74E+01
Co-60	<3.05E+01	0.00E+00	3.05E+01
Zn-65	<6.90E+01	0.00E+00	6.90E+01
Nb-95	<2.43E+01	0.00E+00	2.43E+01
I-131	<2.19E+01	0.00E+00	2.19E+01
Cs-134	<2.91E+01	0.00E+00	2.91E+01
Cs-137	<3.08E+01	0.00E+00	3.08E+01
Be-7	<2.04E+02	0.00E+00	2.04E+02
K-40	2.96E+03	3.02E+02	3.59E+02
Ag-110M	<2.32E+01	0.00E+00	2.32E+01
Sb-122	<4.28E+01	0.00E+00	4.28E+01
Sb-125	<7.57E+01	0.00E+00	7.57E+01

Sample ID: 357040 **Sample Dates: 10/7/2014 - 10/7/2014** **FREESWIM**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.03E+01	0.00E+00	2.03E+01
Co-58	<2.56E+01	0.00E+00	2.56E+01
Fe-59	<7.29E+01	0.00E+00	7.29E+01
Co-60	<2.93E+01	0.00E+00	2.93E+01
Zn-65	<5.77E+01	0.00E+00	5.77E+01
Nb-95	<2.15E+01	0.00E+00	2.15E+01
I-131	<4.00E+01	0.00E+00	4.00E+01
Cs-134	<2.97E+01	0.00E+00	2.97E+01
Cs-137	<3.15E+01	0.00E+00	3.15E+01
Be-7	<1.17E+02	0.00E+00	1.17E+02
K-40	2.93E+03	6.39E+02	3.55E+02
Ag-110M	<2.31E+01	0.00E+00	2.31E+01
Sb-122	<2.15E+02	0.00E+00	2.15E+02
Sb-125	<7.04E+01	0.00E+00	7.04E+01

Sample ID: 357041 **Sample Dates: 10/7/2014 - 10/7/2014** **BOTMFEEDER**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<5.56E+00	0.00E+00	5.56E+00
Co-58	<5.05E+00	0.00E+00	5.05E+00
Fe-59	<1.49E+01	0.00E+00	1.49E+01
Co-60	<5.96E+00	0.00E+00	5.96E+00
Zn-65	<1.39E+01	0.00E+00	1.39E+01
Nb-95	<6.65E+00	0.00E+00	6.65E+00
I-131	<1.71E+01	0.00E+00	1.71E+01
Cs-134	<6.30E+00	0.00E+00	6.30E+00
Cs-137	2.90E+00	3.38E+00	5.50E+00
Be-7	<4.71E+01	0.00E+00	4.71E+01
K-40	2.27E+03	2.50E+02	7.71E+01
Ag-110M	<4.32E+00	0.00E+00	4.32E+00
Sb-122	<3.31E+02	0.00E+00	3.31E+02
Sb-125	<1.37E+01	0.00E+00	1.37E+01

Sample ID: 357042 **Sample Dates: 10/7/2014 - 10/7/2014** **FREESWIM**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.82E+01	0.00E+00	4.82E+01
Co-58	<1.25E+01	0.00E+00	1.25E+01
Fe-59	<1.19E+02	0.00E+00	1.19E+02
Co-60	<4.89E+01	0.00E+00	4.89E+01
Zn-65	<8.51E+01	0.00E+00	8.51E+01
Nb-95	<5.07E+01	0.00E+00	5.07E+01
I-131	<7.83E+01	0.00E+00	7.83E+01
Cs-134	<7.48E+01	0.00E+00	7.48E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Media Type: FISH Concentration (Activity): Unknown

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID:	357042	Sample Dates: 10/7/2014 - 10/7/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Cs-137	<4.55E+01	0.00E+00	4.55E+01
				Be-7	<4.46E+02	0.00E+00	4.46E+02
				K-40	3.14E+03	1.06E+03	9.34E+02
				Ag-110M	<4.10E+01	0.00E+00	4.10E+01
				Sb-122	<3.72E+02	0.00E+00	3.72E+02
				Sb-125	<1.08E+02	0.00E+00	1.08E+02

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID:	287069	Sample Dates: 4/8/2014 - 4/8/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<1.37E+01	0.00E+00	1.37E+01
				Co-58	<1.37E+01	0.00E+00	1.37E+01
				Fe-59	<4.32E+01	0.00E+00	4.32E+01
				Co-60	<1.44E+01	0.00E+00	1.44E+01
				Zn-65	<4.53E+01	0.00E+00	4.53E+01
				Nb-95	<1.61E+01	0.00E+00	1.61E+01
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<1.26E+01	0.00E+00	1.26E+01
				Cs-137	<1.76E+01	0.00E+00	1.76E+01
				Be-7	<1.06E+02	0.00E+00	1.06E+02
				K-40	2.35E+03	1.99E+02	1.14E+02
				Ag-110M	<7.62E+00	0.00E+00	7.62E+00
				Sb-122	<2.67E+01	0.00E+00	2.67E+01
				Sb-125	<3.21E+01	0.00E+00	3.21E+01
Sample ID:	287071	Sample Dates: 4/8/2014 - 4/8/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<2.38E+01	0.00E+00	2.38E+01
				Co-58	<2.07E+01	0.00E+00	2.07E+01
				Fe-59	<5.94E+01	0.00E+00	5.94E+01
				Co-60	<3.75E+01	0.00E+00	3.75E+01
				Zn-65	<6.21E+01	0.00E+00	6.21E+01
				Nb-95	<2.74E+01	0.00E+00	2.74E+01
				I-131	<2.89E+01	0.00E+00	2.89E+01
				Cs-134	<2.73E+01	0.00E+00	2.73E+01
				Cs-137	<2.09E+01	0.00E+00	2.09E+01
				Be-7	<1.17E+02	0.00E+00	1.17E+02
				K-40	3.07E+03	3.00E+02	3.38E+02
				Ag-110M	<1.91E+01	0.00E+00	1.91E+01
				Sb-122	<4.46E+01	0.00E+00	4.46E+01
				Sb-125	<5.65E+01	0.00E+00	5.65E+01
Sample ID:	287073	Sample Dates: 4/8/2014 - 4/8/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<1.27E+01	0.00E+00	1.27E+01
				Co-58	<1.24E+01	0.00E+00	1.24E+01
				Fe-59	<3.00E+01	0.00E+00	3.00E+01
				Co-60	<1.64E+01	0.00E+00	1.64E+01
				Zn-65	<2.62E+01	0.00E+00	2.62E+01
				Nb-95	<1.21E+01	0.00E+00	1.21E+01
				I-131	<1.21E+01	0.00E+00	1.21E+01
				Cs-134	<1.01E+01	0.00E+00	1.01E+01
				Cs-137	<1.74E+01	0.00E+00	1.74E+01
				Be-7	<7.30E+01	0.00E+00	7.30E+01
				K-40	3.27E+03	1.89E+02	1.76E+02
				Ag-110M	<1.41E+01	0.00E+00	1.41E+01
				Sb-122	<2.62E+01	0.00E+00	2.62E+01
				Sb-125	<2.67E+01	0.00E+00	2.67E+01
Sample ID:	357043	Sample Dates: 10/6/2014 - 10/6/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<2.57E+01	0.00E+00	2.57E+01
				Co-58	<3.17E+01	0.00E+00	3.17E+01
				Fe-59	<6.34E+01	0.00E+00	6.34E+01
				Co-60	<2.82E+01	0.00E+00	2.82E+01
				Zn-65	<6.54E+01	0.00E+00	6.54E+01
				Nb-95	<3.94E+01	0.00E+00	3.94E+01
				I-131	<4.21E+01	0.00E+00	4.21E+01
				Cs-134	<3.68E+01	0.00E+00	3.68E+01
				Cs-137	<2.77E+01	0.00E+00	2.77E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Media Type: FISH Concentration (Activity): Unknown

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID:	357043	Sample Dates: 10/6/2014 - 10/6/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Be-7	<1.94E+02	0.00E+00	1.94E+02
				K-40	3.94E+03	7.47E+02	3.92E+02
				Ag-110M	<2.07E+01	0.00E+00	2.07E+01
				Sb-122	<2.27E+02	0.00E+00	2.27E+02
				Sb-125	<8.09E+01	0.00E+00	8.09E+01
Sample ID:	357044	Sample Dates: 10/6/2014 - 10/6/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<4.80E+01	0.00E+00	4.80E+01
				Co-58	<5.57E+01	0.00E+00	5.57E+01
				Fe-59	<1.20E+02	0.00E+00	1.20E+02
				Co-60	<7.93E+01	0.00E+00	7.93E+01
				Zn-65	<1.07E+02	0.00E+00	1.07E+02
				Nb-95	<3.51E+01	0.00E+00	3.51E+01
				I-131	<9.19E+01	0.00E+00	9.19E+01
				Cs-134	<6.49E+01	0.00E+00	6.49E+01
				Cs-137	<3.89E+01	0.00E+00	3.89E+01
				Be-7	<4.70E+02	0.00E+00	4.70E+02
				K-40	3.65E+03	1.10E+03	8.21E+02
				Ag-110M	<3.52E+01	0.00E+00	3.52E+01
				Sb-122	<5.01E+02	0.00E+00	5.01E+02
				Sb-125	<1.64E+02	0.00E+00	1.64E+02
Sample ID:	357045	Sample Dates: 10/6/2014 - 10/6/2014	FREESWIM	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<3.27E+01	0.00E+00	3.27E+01
				Co-58	<2.46E+01	0.00E+00	2.46E+01
				Fe-59	<1.31E+01	0.00E+00	1.31E+01
				Co-60	<3.71E+01	0.00E+00	3.71E+01
				Zn-65	<6.55E+01	0.00E+00	6.55E+01
				Nb-95	<2.76E+01	0.00E+00	2.76E+01
				I-131	<4.68E+01	0.00E+00	4.68E+01
				Cs-134	<4.11E+01	0.00E+00	4.11E+01
				Cs-137	<3.41E+01	0.00E+00	3.41E+01
				Be-7	<2.65E+02	0.00E+00	2.65E+02
				K-40	2.43E+03	6.73E+02	6.86E+02
				Ag-110M	<2.23E+01	0.00E+00	2.23E+01
				Sb-122	<2.00E+02	0.00E+00	2.00E+02
				Sb-125	<5.83E+01	0.00E+00	5.83E+01

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 141 [CONTROL - WNW @ 14.8 miles]

Sample ID:	281230	Sample Dates: 1/13/2014 - 1/13/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	<3.16E+00	0.00E+00	3.16E+00
			K-40	1.74E+01	2.39E+00	3.97E+00
			LLI-131	<4.28E-01	0.00E+00	4.28E-01
			I-131	<3.72E+00	0.00E+00	3.72E+00
			Cs-134	<3.18E+00	0.00E+00	3.18E+00
			Cs-137	<4.41E+00	0.00E+00	4.41E+00
			BaLa-140	<3.84E+00	0.00E+00	3.84E+00
			Be-7	<2.95E+01	0.00E+00	2.95E+01
			K-40	1.54E+03	6.19E+01	4.02E+01
Sample ID:	282166	Sample Dates: 1/27/2014 - 1/27/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	<2.98E+00	0.00E+00	2.98E+00
			K-40	7.97E+00	3.41E+00	6.36E+00
			LLI-131	<6.39E-01	0.00E+00	6.39E-01
			I-131	<8.74E+00	0.00E+00	8.74E+00
			Cs-134	<9.24E+00	0.00E+00	9.24E+00
			Cs-137	<1.07E+01	0.00E+00	1.07E+01
			BaLa-140	<5.92E+00	0.00E+00	5.92E+00
			Be-7	<7.14E+01	0.00E+00	7.14E+01
			K-40	1.30E+03	1.18E+02	1.19E+02
Sample ID:	283425	Sample Dates: 2/10/2014 - 2/10/2014	Nuclide	Activity	Sigma Error [1]	LLD
			Be-7	<3.96E+00	0.00E+00	3.96E+00
			K-40	1.12E+01	3.24E+00	6.54E+00
			LLI-131	<5.46E-01	0.00E+00	5.46E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 283425 **Sample Dates: 2/10/2014 - 2/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<8.93E+00	0.00E+00	8.93E+00
Cs-134	<9.69E+00	0.00E+00	9.69E+00
Cs-137	<1.15E+01	0.00E+00	1.15E+01
BaLa-140	<1.40E+01	0.00E+00	1.40E+01
Be-7	<6.91E+01	0.00E+00	6.91E+01
K-40	1.30E+03	1.11E+02	8.13E+01

Sample ID: 285149 **Sample Dates: 2/24/2014 - 2/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<4.34E+00	0.00E+00	4.34E+00
K-40	2.32E+01	4.89E+00	5.58E+00
LLI-131	<5.47E-01	0.00E+00	5.47E-01
I-131	<6.25E+00	0.00E+00	6.25E+00
Cs-134	<6.47E+00	0.00E+00	6.47E+00
Cs-137	<7.38E+00	0.00E+00	7.38E+00
BaLa-140	<8.60E+00	0.00E+00	8.60E+00
Be-7	<4.54E+01	0.00E+00	4.54E+01
K-40	1.65E+03	8.41E+01	5.06E+01

Sample ID: 286258 **Sample Dates: 3/10/2014 - 3/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<4.35E+00	0.00E+00	4.35E+00
K-40	1.46E+01	3.96E+00	9.58E+00
LLI-131	<6.48E-01	0.00E+00	6.48E-01
I-131	<8.57E+00	0.00E+00	8.57E+00
Cs-134	<1.02E+01	0.00E+00	1.02E+01
Cs-137	<6.83E+00	0.00E+00	6.83E+00
BaLa-140	<1.34E+01	0.00E+00	1.34E+01
Be-7	<8.32E+01	0.00E+00	8.32E+01
K-40	1.59E+03	1.18E+02	1.11E+02

Sample ID: 288394 **Sample Dates: 3/24/2014 - 3/24/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<2.76E+00	0.00E+00	2.76E+00
K-40	4.58E+01	3.20E+00	3.72E+00
LLI-131	<5.55E-01	0.00E+00	5.55E-01
I-131	<1.05E+01	0.00E+00	1.05E+01
Cs-134	<7.61E+00	0.00E+00	7.61E+00
Cs-137	<9.34E+00	0.00E+00	9.34E+00
BaLa-140	<8.07E+00	0.00E+00	8.07E+00
Be-7	<8.34E+01	0.00E+00	8.34E+01
K-40	1.40E+03	1.21E+02	1.11E+02

Sample ID: 289504 **Sample Dates: 4/7/2014 - 4/7/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<3.94E+00	0.00E+00	3.94E+00
K-40	2.08E+01	3.07E+00	5.80E+00
LLI-131	<6.26E-01	0.00E+00	6.26E-01
I-131	<6.88E+00	0.00E+00	6.88E+00
Cs-134	<5.05E+00	0.00E+00	5.05E+00
Cs-137	<7.25E+00	0.00E+00	7.25E+00
BaLa-140	<6.50E+00	0.00E+00	6.50E+00
Be-7	<5.56E+01	0.00E+00	5.56E+01
K-40	1.45E+03	7.82E+01	3.76E+01

Sample ID: 291519 **Sample Dates: 4/21/2014 - 4/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<2.71E+00	0.00E+00	2.71E+00
K-40	1.14E+01	2.27E+00	4.13E+00
LLI-131	<5.66E-01	0.00E+00	5.66E-01
I-131	<6.49E+00	0.00E+00	6.49E+00
Cs-134	<6.60E+00	0.00E+00	6.60E+00
Cs-137	<6.26E+00	0.00E+00	6.26E+00
BaLa-140	<4.86E+00	0.00E+00	4.86E+00
Be-7	<5.55E+01	0.00E+00	5.55E+01
K-40	1.47E+03	7.92E+01	4.29E+01

Sample ID: 293075 **Sample Dates: 5/5/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<4.15E+00	0.00E+00	4.15E+00
K-40	2.21E+01	3.62E+00	7.23E+00
LLI-131	<6.30E-01	0.00E+00	6.30E-01
I-131	<7.70E+00	0.00E+00	7.70E+00
Cs-134	<9.21E+00	0.00E+00	9.21E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 293075 **Sample Dates: 5/5/2014 - 5/5/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-137	<1.13E+01	0.00E+00	1.13E+01
BaLa-140	<8.99E+00	0.00E+00	8.99E+00
Be-7	<5.59E+01	0.00E+00	5.59E+01
K-40	1.55E+03	1.12E+02	9.76E+01

Sample ID: 295215 **Sample Dates: 5/19/2014 - 5/19/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<4.20E+00	0.00E+00	4.20E+00
K-40	2.00E+01	3.36E+00	5.89E+00
LLI-131	<5.74E-01	0.00E+00	5.74E-01
I-131	<8.60E+00	0.00E+00	8.60E+00
Cs-134	<7.84E+00	0.00E+00	7.84E+00
Cs-137	<9.87E+00	0.00E+00	9.87E+00
BaLa-140	<1.15E+01	0.00E+00	1.15E+01
Be-7	<7.52E+01	0.00E+00	7.52E+01
K-40	1.55E+03	1.24E+02	1.21E+02

Sample ID: 295991 **Sample Dates: 6/2/2014 - 6/2/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<4.53E+00	0.00E+00	4.53E+00
K-40	1.50E+01	3.58E+00	7.36E+00
LLI-131	<6.08E-01	0.00E+00	6.08E-01
I-131	<8.46E+00	0.00E+00	8.46E+00
Cs-134	<6.52E+00	0.00E+00	6.52E+00
Cs-137	<9.62E+00	0.00E+00	9.62E+00
BaLa-140	<1.18E+01	0.00E+00	1.18E+01
Be-7	<5.88E+01	0.00E+00	5.88E+01
K-40	1.30E+03	1.02E+02	9.76E+01

Sample ID: 296757 **Sample Dates: 6/16/2014 - 6/16/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<3.50E+00	0.00E+00	3.50E+00
K-40	1.90E+01	2.81E+00	5.85E+00
LLI-131	<5.22E-01	0.00E+00	5.22E-01
I-131	<7.72E+00	0.00E+00	7.72E+00
Cs-134	<5.85E+00	0.00E+00	5.85E+00
Cs-137	<9.95E+00	0.00E+00	9.95E+00
BaLa-140	<9.91E+00	0.00E+00	9.91E+00
Be-7	<7.54E+01	0.00E+00	7.54E+01
K-40	1.64E+03	1.20E+02	8.34E+01

Sample ID: 297381 **Sample Dates: 6/30/2014 - 6/30/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<2.81E+00	0.00E+00	2.81E+00
K-40	4.76E+01	3.46E+00	3.64E+00
LLI-131	<5.83E-01	0.00E+00	5.83E-01
I-131	<8.70E+00	0.00E+00	8.70E+00
Cs-134	<9.43E+00	0.00E+00	9.43E+00
Cs-137	<1.08E+01	0.00E+00	1.08E+01
BaLa-140	<1.42E+01	0.00E+00	1.42E+01
Be-7	<5.61E+01	0.00E+00	5.61E+01
K-40	1.17E+03	1.20E+02	1.31E+02

Sample ID: 298205 **Sample Dates: 7/14/2014 - 7/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<5.28E-01	0.00E+00	5.28E-01
I-131	<8.94E+00	0.00E+00	8.94E+00
Cs-134	<3.76E+00	0.00E+00	3.76E+00
Cs-137	<3.80E+00	0.00E+00	3.80E+00
BaLa-140	<7.97E+00	0.00E+00	7.97E+00
Be-7	<3.79E+01	0.00E+00	3.79E+01
K-40	1.56E+03	1.78E+02	6.21E+01

Sample ID: 351062 **Sample Dates: 7/28/2014 - 7/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.15E-01	0.00E+00	6.15E-01
I-131	<1.27E+01	0.00E+00	1.27E+01
Cs-134	<7.74E+00	0.00E+00	7.74E+00
Cs-137	<1.04E+01	0.00E+00	1.04E+01
BaLa-140	<8.99E+00	0.00E+00	8.99E+00
Be-7	<6.08E+01	0.00E+00	6.08E+01
K-40	1.65E+03	2.79E+02	1.37E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 352232 **Sample Dates: 8/11/2014 - 8/11/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.27E-01	0.00E+00	6.27E-01
I-131	<7.59E+00	0.00E+00	7.59E+00
Cs-134	<6.58E+00	0.00E+00	6.58E+00
Cs-137	<7.67E+00	0.00E+00	7.67E+00
BaLa-140	<8.70E+00	0.00E+00	8.70E+00
Be-7	<5.36E+01	0.00E+00	5.36E+01
K-40	1.60E+03	2.22E+02	1.15E+02

Sample ID: 354204 **Sample Dates: 8/25/2014 - 8/25/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<5.68E-01	0.00E+00	5.68E-01
I-131	<9.63E+00	0.00E+00	9.63E+00
Cs-134	<1.19E+01	0.00E+00	1.19E+01
Cs-137	<1.06E+01	0.00E+00	1.06E+01
BaLa-140	<2.71E+00	0.00E+00	2.71E+00
Be-7	<6.98E+01	0.00E+00	6.98E+01
K-40	1.52E+03	2.71E+02	1.64E+02

Sample ID: 354821 **Sample Dates: 9/8/2014 - 9/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.47E-01	0.00E+00	6.47E-01
I-131	<6.11E+00	0.00E+00	6.11E+00
Cs-134	<8.56E+00	0.00E+00	8.56E+00
Cs-137	<8.42E+00	0.00E+00	8.42E+00
BaLa-140	<6.27E+00	0.00E+00	6.27E+00
Be-7	<5.25E+01	0.00E+00	5.25E+01
K-40	1.49E+03	2.07E+02	1.06E+02

Sample ID: 355631 **Sample Dates: 9/22/2014 - 9/22/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.11E-01	0.00E+00	6.11E-01
I-131	<8.59E+00	0.00E+00	8.59E+00
Cs-134	<1.03E+01	0.00E+00	1.03E+01
Cs-137	<1.06E+01	0.00E+00	1.06E+01
BaLa-140	<1.13E+01	0.00E+00	1.13E+01
Be-7	<7.62E+01	0.00E+00	7.62E+01
K-40	1.47E+03	2.65E+02	1.60E+02

Sample ID: 357046 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.39E-01	0.00E+00	6.39E-01
I-131	<9.84E+00	0.00E+00	9.84E+00
Cs-134	<1.12E+01	0.00E+00	1.12E+01
Cs-137	<8.78E+00	0.00E+00	8.78E+00
BaLa-140	<9.96E+00	0.00E+00	9.96E+00
Be-7	<6.87E+01	0.00E+00	6.87E+01
K-40	1.16E+03	2.24E+02	8.67E+01

Sample ID: 358653 **Sample Dates: 10/20/2014 - 10/20/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<5.61E-01	0.00E+00	5.61E-01
I-131	<4.37E+00	0.00E+00	4.37E+00
Cs-134	<5.04E+00	0.00E+00	5.04E+00
Cs-137	<4.06E+00	0.00E+00	4.06E+00
BaLa-140	<4.58E+00	0.00E+00	4.58E+00
Be-7	<2.95E+01	0.00E+00	2.95E+01
K-40	1.49E+03	1.68E+02	5.79E+01

Sample ID: 360027 **Sample Dates: 11/3/2014 - 11/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.38E-01	0.00E+00	6.38E-01
I-131	<6.63E+00	0.00E+00	6.63E+00
Cs-134	<8.83E+00	0.00E+00	8.83E+00
Cs-137	<7.39E+00	0.00E+00	7.39E+00
BaLa-140	<6.62E+00	0.00E+00	6.62E+00
Be-7	<5.20E+01	0.00E+00	5.20E+01
K-40	1.50E+03	2.11E+02	1.06E+02

Sample ID: 361571 **Sample Dates: 11/17/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.06E-01	0.00E+00	6.06E-01
I-131	<9.03E+00	0.00E+00	9.03E+00
Cs-134	<8.23E+00	0.00E+00	8.23E+00
Cs-137	<9.11E+00	0.00E+00	9.11E+00
BaLa-140	<8.16E+00	0.00E+00	8.16E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 141 [CONTROL - WNW @ 14.8 miles]

Sample ID: 361571 **Sample Dates: 11/17/2014 - 11/17/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Be-7	<7.15E+01	0.00E+00	7.15E+01
K-40	1.75E+03	2.90E+02	1.44E+02

Sample ID: 362780 **Sample Dates: 12/1/2014 - 12/1/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.43E-01	0.00E+00	6.43E-01
I-131	<7.20E+00	0.00E+00	7.20E+00
Cs-134	<7.61E+00	0.00E+00	7.61E+00
Cs-137	<3.52E+00	0.00E+00	3.52E+00
BaLa-140	<8.06E+00	0.00E+00	8.06E+00
Be-7	<5.64E+01	0.00E+00	5.64E+01
K-40	1.20E+03	2.03E+02	7.17E+01

Sample ID: 363967 **Sample Dates: 12/15/2014 - 12/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.31E-01	0.00E+00	6.31E-01
I-131	<8.96E+00	0.00E+00	8.96E+00
Cs-134	<9.83E+00	0.00E+00	9.83E+00
Cs-137	<7.28E+00	0.00E+00	7.28E+00
BaLa-140	<1.01E+01	0.00E+00	1.01E+01
Be-7	<7.42E+01	0.00E+00	7.42E+01
K-40	1.43E+03	2.58E+02	9.93E+01

Sample ID: 364931 **Sample Dates: 12/29/2014 - 12/29/2014**

Nuclide	Activity	Sigma Error [1]	LLD
LLI-131	<6.43E-01	0.00E+00	6.43E-01
I-131	<6.81E+00	0.00E+00	6.81E+00
Cs-134	<9.85E+00	0.00E+00	9.85E+00
Cs-137	<7.68E+00	0.00E+00	7.68E+00
BaLa-140	<6.58E+00	0.00E+00	6.58E+00
Be-7	<5.83E+01	0.00E+00	5.83E+01
K-40	1.62E+03	2.52E+02	1.78E+02

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

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID: 287059 **Sample Dates: 4/14/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.23E+01	0.00E+00	2.23E+01
Co-58	<1.52E+01	0.00E+00	1.52E+01
Fe-59	<3.72E+01	0.00E+00	3.72E+01
Co-60	<2.11E+01	0.00E+00	2.11E+01
Zn-65	<4.72E+01	0.00E+00	4.72E+01
Zr-95	<3.41E+01	0.00E+00	3.41E+01
Nb-95	<2.28E+01	0.00E+00	2.28E+01
I-131	<2.94E+01	0.00E+00	2.94E+01
Cs-134	<1.65E+01	0.00E+00	1.65E+01
Cs-137	<2.00E+01	0.00E+00	2.00E+01
Be-7	<2.04E+02	0.00E+00	2.04E+02
K-40	5.79E+03	2.58E+02	1.74E+02
Co-57	<1.70E+01	0.00E+00	1.70E+01
Mo-99	<7.58E+02	0.00E+00	7.58E+02
Ag-110M	<1.86E+01	0.00E+00	1.86E+01
Sb-122	<1.48E+02	0.00E+00	1.48E+02
Sb-125	<5.52E+01	0.00E+00	5.52E+01

Sample ID: 357301 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<9.10E+00	0.00E+00	9.10E+00
Co-58	<8.26E+00	0.00E+00	8.26E+00
Fe-59	<2.05E+01	0.00E+00	2.05E+01
Co-60	<1.01E+01	0.00E+00	1.01E+01
Zn-65	<2.04E+01	0.00E+00	2.04E+01
Zr-95	<1.80E+01	0.00E+00	1.80E+01
Nb-95	<1.27E+01	0.00E+00	1.27E+01
I-131	<2.50E+01	0.00E+00	2.50E+01
Cs-134	<1.55E+01	0.00E+00	1.55E+01
Cs-137	<9.57E+00	0.00E+00	9.57E+00
Be-7	2.07E+02	1.23E+02	1.96E+02
K-40	4.29E+03	4.21E+02	1.46E+02
Co-57	<8.05E+00	0.00E+00	8.05E+00
Mo-99	<2.52E+03	0.00E+00	2.52E+03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 129 [INDICATOR - ENE @ 0.51 miles]

Sample ID: 357301 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Ag-110M	<7.86E+00	0.00E+00	7.86E+00
Sb-122	<4.35E+02	0.00E+00	4.35E+02
Sb-125	<2.60E+01	0.00E+00	2.60E+01

Sample Point 130 [INDICATOR - SW @ 0.52 miles]

Sample ID: 287061 **Sample Dates: 4/14/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<1.53E+01	0.00E+00	1.53E+01
Co-58	<1.33E+01	0.00E+00	1.33E+01
Fe-59	<2.88E+01	0.00E+00	2.88E+01
Co-60	<1.42E+01	0.00E+00	1.42E+01
Zn-65	<3.04E+01	0.00E+00	3.04E+01
Zr-95	<2.90E+01	0.00E+00	2.90E+01
Nb-95	<1.77E+01	0.00E+00	1.77E+01
I-131	<2.40E+01	0.00E+00	2.40E+01
Cs-134	<1.33E+01	0.00E+00	1.33E+01
Cs-137	2.08E+02	8.98E+00	1.48E+01
Be-7	<1.32E+02	0.00E+00	1.32E+02
K-40	1.33E+04	2.18E+02	1.13E+02
Co-57	<1.28E+01	0.00E+00	1.28E+01
Mo-99	<6.54E+02	0.00E+00	6.54E+02
Ag-110M	<1.32E+01	0.00E+00	1.32E+01
Sb-122	<1.21E+02	0.00E+00	1.21E+02
Sb-125	<3.80E+01	0.00E+00	3.80E+01

Sample ID: 357302 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<1.77E+01	0.00E+00	1.77E+01
Co-58	<1.45E+01	0.00E+00	1.45E+01
Fe-59	<3.54E+01	0.00E+00	3.54E+01
Co-60	<1.57E+01	0.00E+00	1.57E+01
Zn-65	<3.60E+01	0.00E+00	3.60E+01
Zr-95	<2.90E+01	0.00E+00	2.90E+01
Nb-95	<1.99E+01	0.00E+00	1.99E+01
I-131	<4.26E+01	0.00E+00	4.26E+01
Cs-134	<2.23E+01	0.00E+00	2.23E+01
Cs-137	1.55E+02	3.48E+01	1.79E+01
Be-7	<1.40E+02	0.00E+00	1.40E+02
K-40	1.36E+04	1.21E+03	2.58E+02
Co-57	<1.31E+01	0.00E+00	1.31E+01
Mo-99	<4.94E+03	0.00E+00	4.94E+03
Ag-110M	<1.37E+01	0.00E+00	1.37E+01
Sb-122	<8.29E+02	0.00E+00	8.29E+02
Sb-125	<3.87E+01	0.00E+00	3.87E+01

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID: 287060 **Sample Dates: 4/14/2014 - 4/14/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.01E+01	0.00E+00	2.01E+01
Co-58	<1.94E+01	0.00E+00	1.94E+01
Fe-59	<5.57E+01	0.00E+00	5.57E+01
Co-60	<2.53E+01	0.00E+00	2.53E+01
Zn-65	<5.34E+01	0.00E+00	5.34E+01
Zr-95	<3.26E+01	0.00E+00	3.26E+01
Nb-95	<2.39E+01	0.00E+00	2.39E+01
I-131	<2.65E+01	0.00E+00	2.65E+01
Cs-134	<1.68E+01	0.00E+00	1.68E+01
Cs-137	<2.02E+01	0.00E+00	2.02E+01
Be-7	<1.53E+02	0.00E+00	1.53E+02
K-40	1.36E+04	4.06E+02	1.68E+02
Co-57	<1.34E+01	0.00E+00	1.34E+01
Mo-99	<8.07E+02	0.00E+00	8.07E+02
Ag-110M	<1.55E+01	0.00E+00	1.55E+01
Sb-122	<1.25E+02	0.00E+00	1.25E+02
Sb-125	<3.91E+01	0.00E+00	3.91E+01

Sample ID: 357304 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.36E+01	0.00E+00	2.36E+01
Co-58	<2.32E+01	0.00E+00	2.32E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 137 [CONTROL - N @ 12 miles]

Sample ID: 357304 **Sample Dates: 10/6/2014 - 10/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<5.65E+01	0.00E+00	5.65E+01
Co-60	<2.25E+01	0.00E+00	2.25E+01
Zn-65	<5.92E+01	0.00E+00	5.92E+01
Zr-95	<3.85E+01	0.00E+00	3.85E+01
Nb-95	<2.53E+01	0.00E+00	2.53E+01
I-131	<2.94E+01	0.00E+00	2.94E+01
Cs-134	<2.36E+01	0.00E+00	2.36E+01
Cs-137	<1.80E+01	0.00E+00	1.80E+01
Be-7	<1.69E+02	0.00E+00	1.69E+02
K-40	1.59E+04	1.58E+03	2.70E+02
Co-57	<1.61E+01	0.00E+00	1.61E+01
Mo-99	<9.00E+02	0.00E+00	9.00E+02
Ag-110M	<1.67E+01	0.00E+00	1.67E+01
Sb-122	<1.58E+02	0.00E+00	1.58E+02
Sb-125	<4.97E+01	0.00E+00	4.97E+01

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

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID: 280866 **Sample Dates: 12/9/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.66E+00	0.00E+00	3.66E+00
Co-58	<3.72E+00	0.00E+00	3.72E+00
Fe-59	<8.54E+00	0.00E+00	8.54E+00
Co-60	<4.21E+00	0.00E+00	4.21E+00
Zn-65	<8.27E+00	0.00E+00	8.27E+00
Zr-95	<6.62E+00	0.00E+00	6.62E+00
Nb-95	<4.68E+00	0.00E+00	4.68E+00
I-131	<1.17E+01	0.00E+00	1.17E+01
Cs-134	<3.34E+00	0.00E+00	3.34E+00
Cs-137	<3.53E+00	0.00E+00	3.53E+00
BaLa-140	<8.15E+00	0.00E+00	8.15E+00
Be-7	<3.01E+01	0.00E+00	3.01E+01
K-40	2.11E+02	2.18E+01	3.68E+01

Sample ID: 282981 **Sample Dates: 1/6/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.23E+00	0.00E+00	3.23E+00
Co-58	<3.43E+00	0.00E+00	3.43E+00
Fe-59	<8.24E+00	0.00E+00	8.24E+00
Co-60	<3.86E+00	0.00E+00	3.86E+00
Zn-65	<7.08E+00	0.00E+00	7.08E+00
Zr-95	<5.45E+00	0.00E+00	5.45E+00
Nb-95	<3.84E+00	0.00E+00	3.84E+00
I-131	<1.09E+01	0.00E+00	1.09E+01
Cs-134	<3.27E+00	0.00E+00	3.27E+00
Cs-137	<3.42E+00	0.00E+00	3.42E+00
BaLa-140	<9.89E+00	0.00E+00	9.89E+00
Be-7	<3.37E+01	0.00E+00	3.37E+01
K-40	6.89E+01	1.73E+01	3.74E+01

Sample ID: 284703 **Sample Dates: 12/9/2013 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	9.52E+02	7.20E+01	1.89E+02

Sample ID: 285761 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.76E+00	0.00E+00	2.76E+00
Co-58	<3.25E+00	0.00E+00	3.25E+00
Fe-59	<6.11E+00	0.00E+00	6.11E+00
Co-60	<3.04E+00	0.00E+00	3.04E+00
Zn-65	<7.12E+00	0.00E+00	7.12E+00
Zr-95	<5.43E+00	0.00E+00	5.43E+00
Nb-95	<4.43E+00	0.00E+00	4.43E+00
I-131	<1.22E+01	0.00E+00	1.22E+01
Cs-134	<2.67E+00	0.00E+00	2.67E+00
Cs-137	<2.95E+00	0.00E+00	2.95E+00
BaLa-140	<6.91E+00	0.00E+00	6.91E+00
Be-7	<2.93E+01	0.00E+00	2.93E+01
K-40	1.61E+02	2.05E+01	2.83E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 289125 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.88E+00	0.00E+00	2.88E+00
Co-58	<3.09E+00	0.00E+00	3.09E+00
Fe-59	<5.86E+00	0.00E+00	5.86E+00
Co-60	<4.04E+00	0.00E+00	4.04E+00
Zn-65	<5.89E+00	0.00E+00	5.89E+00
Zr-95	<6.14E+00	0.00E+00	6.14E+00
Nb-95	<3.33E+00	0.00E+00	3.33E+00
I-131	<1.09E+01	0.00E+00	1.09E+01
Cs-134	<2.50E+00	0.00E+00	2.50E+00
Cs-137	<3.67E+00	0.00E+00	3.67E+00
BaLa-140	<7.45E+00	0.00E+00	7.45E+00
Be-7	<2.92E+01	0.00E+00	2.92E+01
K-40	4.84E+01	1.66E+01	3.24E+01

Sample ID: 292820 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.41E+00	0.00E+00	3.41E+00
Co-58	<4.21E+00	0.00E+00	4.21E+00
Fe-59	<1.09E+01	0.00E+00	1.09E+01
Co-60	<4.39E+00	0.00E+00	4.39E+00
Zn-65	<8.40E+00	0.00E+00	8.40E+00
Zr-95	<8.05E+00	0.00E+00	8.05E+00
Nb-95	<4.73E+00	0.00E+00	4.73E+00
I-131	<1.29E+01	0.00E+00	1.29E+01
Cs-134	<3.10E+00	0.00E+00	3.10E+00
Cs-137	<3.99E+00	0.00E+00	3.99E+00
BaLa-140	<9.59E+00	0.00E+00	9.59E+00
Be-7	<3.48E+01	0.00E+00	3.48E+01
K-40	9.06E+01	2.11E+01	3.35E+01

Sample ID: 295221 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	1.28E+03	7.65E+01	1.88E+02

Sample ID: 295483 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.91E+00	0.00E+00	2.91E+00
Co-58	<3.39E+00	0.00E+00	3.39E+00
Fe-59	<6.85E+00	0.00E+00	6.85E+00
Co-60	<3.69E+00	0.00E+00	3.69E+00
Zn-65	<6.89E+00	0.00E+00	6.89E+00
Zr-95	<6.15E+00	0.00E+00	6.15E+00
Nb-95	<3.94E+00	0.00E+00	3.94E+00
I-131	<1.30E+01	0.00E+00	1.30E+01
Cs-134	<2.61E+00	0.00E+00	2.61E+00
Cs-137	<3.30E+00	0.00E+00	3.30E+00
BaLa-140	<6.54E+00	0.00E+00	6.54E+00
Be-7	<2.90E+01	0.00E+00	2.90E+01
K-40	1.52E+02	2.34E+01	2.77E+01

Sample ID: 296991 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.63E+00	0.00E+00	4.63E+00
Co-58	<3.75E+00	0.00E+00	3.75E+00
Fe-59	<1.01E+01	0.00E+00	1.01E+01
Co-60	<6.09E+00	0.00E+00	6.09E+00
Zn-65	<8.76E+00	0.00E+00	8.76E+00
Zr-95	<7.09E+00	0.00E+00	7.09E+00
Nb-95	<5.44E+00	0.00E+00	5.44E+00
I-131	<1.40E+01	0.00E+00	1.40E+01
Cs-134	<3.56E+00	0.00E+00	3.56E+00
Cs-137	<4.70E+00	0.00E+00	4.70E+00
BaLa-140	<1.22E+01	0.00E+00	1.22E+01
Be-7	<4.18E+01	0.00E+00	4.18E+01
K-40	7.59E+01	2.74E+01	4.20E+01

Sample ID: 350545 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.48E+00	0.00E+00	2.48E+00
Co-58	<2.56E+00	0.00E+00	2.56E+00
Fe-59	<7.24E+00	0.00E+00	7.24E+00
Co-60	<3.26E+00	0.00E+00	3.26E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample ID: 350545 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Zn-65	<4.17E+00	0.00E+00	4.17E+00
Zr-95	<4.87E+00	0.00E+00	4.87E+00
Nb-95	<3.92E+00	0.00E+00	3.92E+00
I-131	<1.19E+01	0.00E+00	1.19E+01
Cs-134	<2.56E+00	0.00E+00	2.56E+00
Cs-137	<2.67E+00	0.00E+00	2.67E+00
BaLa-140	<6.11E+00	0.00E+00	6.11E+00
Be-7	<2.32E+01	0.00E+00	2.32E+01
K-40	8.20E+01	2.64E+01	3.04E+01

Sample ID: 352241 **Sample Dates: 7/21/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.12E+00	0.00E+00	3.12E+00
Co-58	<3.28E+00	0.00E+00	3.28E+00
Fe-59	<8.49E+00	0.00E+00	8.49E+00
Co-60	<3.23E+00	0.00E+00	3.23E+00
Zn-65	<7.51E+00	0.00E+00	7.51E+00
Zr-95	<6.86E+00	0.00E+00	6.86E+00
Nb-95	<4.38E+00	0.00E+00	4.38E+00
I-131	<1.08E+01	0.00E+00	1.08E+01
Cs-134	<4.09E+00	0.00E+00	4.09E+00
Cs-137	<4.46E+00	0.00E+00	4.46E+00
BaLa-140	<9.52E+00	0.00E+00	9.52E+00
Be-7	<2.91E+01	0.00E+00	2.91E+01
K-40	1.40E+02	3.94E+01	3.92E+01

Sample ID: 354205 **Sample Dates: 5/27/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	8.27E+02	1.35E+02	1.88E+02

Sample ID: 355153 **Sample Dates: 8/18/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.51E+00	0.00E+00	3.51E+00
Co-58	<3.42E+00	0.00E+00	3.42E+00
Fe-59	<8.13E+00	0.00E+00	8.13E+00
Co-60	<3.22E+00	0.00E+00	3.22E+00
Zn-65	<4.97E+00	0.00E+00	4.97E+00
Zr-95	<7.25E+00	0.00E+00	7.25E+00
Nb-95	<4.49E+00	0.00E+00	4.49E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<4.13E+00	0.00E+00	4.13E+00
Cs-137	<3.28E+00	0.00E+00	3.28E+00
BaLa-140	<7.16E+00	0.00E+00	7.16E+00
Be-7	<3.59E+01	0.00E+00	3.59E+01
K-40	1.72E+02	4.25E+01	3.92E+01

Sample ID: 358043 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.48E+00	0.00E+00	2.48E+00
Co-58	<2.69E+00	0.00E+00	2.69E+00
Fe-59	<4.64E+00	0.00E+00	4.64E+00
Co-60	<2.23E+00	0.00E+00	2.23E+00
Zn-65	<4.95E+00	0.00E+00	4.95E+00
Zr-95	<5.12E+00	0.00E+00	5.12E+00
Nb-95	<3.09E+00	0.00E+00	3.09E+00
I-131	<1.00E+01	0.00E+00	1.00E+01
Cs-134	<2.88E+00	0.00E+00	2.88E+00
Cs-137	<2.68E+00	0.00E+00	2.68E+00
BaLa-140	<4.95E+00	0.00E+00	4.95E+00
Be-7	<2.57E+01	0.00E+00	2.57E+01
K-40	4.46E+01	2.52E+01	3.52E+01

Sample ID: 360707 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.54E+00	0.00E+00	2.54E+00
Co-58	<3.04E+00	0.00E+00	3.04E+00
Fe-59	<6.39E+00	0.00E+00	6.39E+00
Co-60	<2.77E+00	0.00E+00	2.77E+00
Zn-65	<5.14E+00	0.00E+00	5.14E+00
Zr-95	<4.89E+00	0.00E+00	4.89E+00
Nb-95	<4.12E+00	0.00E+00	4.12E+00
I-131	<1.20E+01	0.00E+00	1.20E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 128 [INDICATOR - NE @ 0.45 miles]

Sample ID: 360707 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<3.22E+00	0.00E+00	3.22E+00
Cs-137	<2.65E+00	0.00E+00	2.65E+00
BaLa-140	<5.94E+00	0.00E+00	5.94E+00
Be-7	<2.82E+01	0.00E+00	2.82E+01
K-40	2.06E+02	9.41E+01	1.47E+02

Sample ID: 363518 **Sample Dates: 11/10/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<1.24E+00	0.00E+00	1.24E+00
Co-58	<1.42E+00	0.00E+00	1.42E+00
Fe-59	<3.05E+00	0.00E+00	3.05E+00
Co-60	<1.11E+00	0.00E+00	1.11E+00
Zn-65	<2.52E+00	0.00E+00	2.52E+00
Zr-95	<2.82E+00	0.00E+00	2.82E+00
Nb-95	<1.97E+00	0.00E+00	1.97E+00
I-131	<1.10E+01	0.00E+00	1.10E+01
Cs-134	<1.34E+00	0.00E+00	1.34E+00
Cs-137	<1.16E+00	0.00E+00	1.16E+00
BaLa-140	<4.42E+00	0.00E+00	4.42E+00
Be-7	<1.31E+01	0.00E+00	1.31E+01
K-40	1.80E+02	2.25E+01	1.89E+01

Sample ID: 364501 **Sample Dates: 8/18/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	1.04E+03	1.47E+02	1.99E+02

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 280867 **Sample Dates: 12/9/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.27E+00	0.00E+00	3.27E+00
Co-58	<3.49E+00	0.00E+00	3.49E+00
Fe-59	<7.72E+00	0.00E+00	7.72E+00
Co-60	<3.45E+00	0.00E+00	3.45E+00
Zn-65	<7.71E+00	0.00E+00	7.71E+00
Zr-95	<7.30E+00	0.00E+00	7.30E+00
Nb-95	<4.57E+00	0.00E+00	4.57E+00
I-131	<1.25E+01	0.00E+00	1.25E+01
Cs-134	<3.17E+00	0.00E+00	3.17E+00
Cs-137	<3.38E+00	0.00E+00	3.38E+00
BaLa-140	<6.02E+00	0.00E+00	6.02E+00
Be-7	<3.26E+01	0.00E+00	3.26E+01
K-40	9.54E+01	2.09E+01	3.87E+01

Sample ID: 282982 **Sample Dates: 1/6/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.21E+00	0.00E+00	4.21E+00
Co-58	<4.37E+00	0.00E+00	4.37E+00
Fe-59	<1.09E+01	0.00E+00	1.09E+01
Co-60	<4.50E+00	0.00E+00	4.50E+00
Zn-65	<6.39E+00	0.00E+00	6.39E+00
Zr-95	<9.34E+00	0.00E+00	9.34E+00
Nb-95	<5.58E+00	0.00E+00	5.58E+00
I-131	<1.33E+01	0.00E+00	1.33E+01
Cs-134	<3.73E+00	0.00E+00	3.73E+00
Cs-137	<4.17E+00	0.00E+00	4.17E+00
BaLa-140	<1.22E+01	0.00E+00	1.22E+01
Be-7	<4.50E+01	0.00E+00	4.50E+01
K-40	2.41E+02	2.73E+01	3.24E+01

Sample ID: 284704 **Sample Dates: 12/9/2013 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	4.28E+02	6.42E+01	1.89E+02

Sample ID: 285762 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.53E+00	0.00E+00	3.53E+00
Co-58	<3.64E+00	0.00E+00	3.64E+00
Fe-59	<7.85E+00	0.00E+00	7.85E+00
Co-60	<4.96E+00	0.00E+00	4.96E+00
Zn-65	<6.57E+00	0.00E+00	6.57E+00
Zr-95	<6.56E+00	0.00E+00	6.56E+00
Nb-95	<4.59E+00	0.00E+00	4.59E+00
I-131	<1.20E+01	0.00E+00	1.20E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 285762 Sample Dates: 2/3/2014 - 3/3/2014

Nuclide	Activity	Sigma Error [1]	LLD
Cs-134	<2.59E+00	0.00E+00	2.59E+00
Cs-137	<3.62E+00	0.00E+00	3.62E+00
BaLa-140	<1.05E+01	0.00E+00	1.05E+01
Be-7	<2.98E+01	0.00E+00	2.98E+01
K-40	6.73E+01	1.66E+01	3.32E+01

Sample ID: 289126 Sample Dates: 3/3/2014 - 3/31/2014

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.87E+00	0.00E+00	2.87E+00
Co-58	<2.79E+00	0.00E+00	2.79E+00
Fe-59	<8.42E+00	0.00E+00	8.42E+00
Co-60	<3.00E+00	0.00E+00	3.00E+00
Zn-65	<7.12E+00	0.00E+00	7.12E+00
Zr-95	<6.59E+00	0.00E+00	6.59E+00
Nb-95	<4.45E+00	0.00E+00	4.45E+00
I-131	<1.32E+01	0.00E+00	1.32E+01
Cs-134	<2.73E+00	0.00E+00	2.73E+00
Cs-137	<3.62E+00	0.00E+00	3.62E+00
BaLa-140	<5.82E+00	0.00E+00	5.82E+00
Be-7	<3.56E+01	0.00E+00	3.56E+01
K-40	2.27E+02	2.73E+01	3.20E+01

Sample ID: 292821 Sample Dates: 3/31/2014 - 4/28/2014

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.70E+00	0.00E+00	3.70E+00
Co-58	<3.60E+00	0.00E+00	3.60E+00
Fe-59	<9.18E+00	0.00E+00	9.18E+00
Co-60	<3.97E+00	0.00E+00	3.97E+00
Zn-65	<8.40E+00	0.00E+00	8.40E+00
Zr-95	<7.73E+00	0.00E+00	7.73E+00
Nb-95	<4.66E+00	0.00E+00	4.66E+00
I-131	<1.35E+01	0.00E+00	1.35E+01
Cs-134	<2.85E+00	0.00E+00	2.85E+00
Cs-137	<4.57E+00	0.00E+00	4.57E+00
BaLa-140	<8.10E+00	0.00E+00	8.10E+00
Be-7	<3.51E+01	0.00E+00	3.51E+01
K-40	7.68E+01	2.05E+01	2.89E+01

Sample ID: 295222 Sample Dates: 3/3/2014 - 5/27/2014

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	4.01E+02	6.36E+01	1.88E+02

Sample ID: 295484 Sample Dates: 4/28/2014 - 5/27/2014

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.28E+00	0.00E+00	2.28E+00
Co-58	<2.47E+00	0.00E+00	2.47E+00
Fe-59	<5.61E+00	0.00E+00	5.61E+00
Co-60	<2.14E+00	0.00E+00	2.14E+00
Zn-65	<4.59E+00	0.00E+00	4.59E+00
Zr-95	<4.61E+00	0.00E+00	4.61E+00
Nb-95	<3.04E+00	0.00E+00	3.04E+00
I-131	<1.45E+01	0.00E+00	1.45E+01
Cs-134	<2.10E+00	0.00E+00	2.10E+00
Cs-137	<2.00E+00	0.00E+00	2.00E+00
BaLa-140	<7.24E+00	0.00E+00	7.24E+00
Be-7	<2.41E+01	0.00E+00	2.41E+01
K-40	1.90E+02	1.63E+01	1.93E+01

Sample ID: 296992 Sample Dates: 5/27/2014 - 6/23/2014

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.43E+00	0.00E+00	4.43E+00
Co-58	<4.81E+00	0.00E+00	4.81E+00
Fe-59	<1.10E+01	0.00E+00	1.10E+01
Co-60	<3.30E+00	0.00E+00	3.30E+00
Zn-65	<8.52E+00	0.00E+00	8.52E+00
Zr-95	<7.75E+00	0.00E+00	7.75E+00
Nb-95	<5.37E+00	0.00E+00	5.37E+00
I-131	<1.36E+01	0.00E+00	1.36E+01
Cs-134	<4.08E+00	0.00E+00	4.08E+00
Cs-137	<5.07E+00	0.00E+00	5.07E+00
BaLa-140	<1.17E+01	0.00E+00	1.17E+01
Be-7	<5.06E+01	0.00E+00	5.06E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	296992	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error [1]	LLD
			K-40	1.34E+02	3.23E+01	4.74E+01
Sample ID:	**350546**	**Sample Dates: 6/23/2014 - 7/21/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<2.06E+00	0.00E+00	2.06E+00
			Co-58	<2.57E+00	0.00E+00	2.57E+00
			Fe-59	<5.39E+00	0.00E+00	5.39E+00
			Co-60	<2.23E+00	0.00E+00	2.23E+00
			Zn-65	<5.22E+00	0.00E+00	5.22E+00
			Zr-95	<5.31E+00	0.00E+00	5.31E+00
			Nb-95	<3.20E+00	0.00E+00	3.20E+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	<2.03E+00	0.00E+00	2.03E+00
			BaLa-140	<7.63E+00	0.00E+00	7.63E+00
			Be-7	<2.15E+01	0.00E+00	2.15E+01
			K-40	1.66E+02	3.44E+01	3.90E+01
Sample ID:	**352242**	**Sample Dates: 7/21/2014 - 8/18/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<3.26E+00	0.00E+00	3.26E+00
			Co-58	<3.05E+00	0.00E+00	3.05E+00
			Fe-59	<6.88E+00	0.00E+00	6.88E+00
			Co-60	<3.23E+00	0.00E+00	3.23E+00
			Zn-65	<6.33E+00	0.00E+00	6.33E+00
			Zr-95	<6.61E+00	0.00E+00	6.61E+00
			Nb-95	<3.75E+00	0.00E+00	3.75E+00
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<3.47E+00	0.00E+00	3.47E+00
			Cs-137	<2.98E+00	0.00E+00	2.98E+00
			BaLa-140	<4.18E+00	0.00E+00	4.18E+00
			Be-7	<2.98E+01	0.00E+00	2.98E+01
			K-40	1.39E+02	3.76E+01	4.06E+01
Sample ID:	**354206**	**Sample Dates: 5/27/2014 - 8/18/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			H3SW	3.92E+02	1.22E+02	1.89E+02
Sample ID:	**355155**	**Sample Dates: 8/18/2014 - 9/15/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<4.22E+00	0.00E+00	4.22E+00
			Co-58	<4.20E+00	0.00E+00	4.20E+00
			Fe-59	<9.97E+00	0.00E+00	9.97E+00
			Co-60	<4.80E+00	0.00E+00	4.80E+00
			Zn-65	<9.91E+00	0.00E+00	9.91E+00
			Zr-95	<8.63E+00	0.00E+00	8.63E+00
			Nb-95	<5.19E+00	0.00E+00	5.19E+00
			I-131	<1.16E+01	0.00E+00	1.16E+01
			Cs-134	<5.29E+00	0.00E+00	5.29E+00
			Cs-137	<3.89E+00	0.00E+00	3.89E+00
			BaLa-140	<8.45E+00	0.00E+00	8.45E+00
			Be-7	<2.93E+01	0.00E+00	2.93E+01
			K-40	<5.63E+01	0.00E+00	5.63E+01
Sample ID:	**358044**	**Sample Dates: 9/15/2014 - 10/13/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<3.00E+00	0.00E+00	3.00E+00
			Co-58	<4.03E+00	0.00E+00	4.03E+00
			Fe-59	<8.85E+00	0.00E+00	8.85E+00
			Co-60	<4.03E+00	0.00E+00	4.03E+00
			Zn-65	<8.95E+00	0.00E+00	8.95E+00
			Zr-95	<7.15E+00	0.00E+00	7.15E+00
			Nb-95	<3.97E+00	0.00E+00	3.97E+00
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<4.59E+00	0.00E+00	4.59E+00
			Cs-137	<4.34E+00	0.00E+00	4.34E+00
			BaLa-140	<8.14E+00	0.00E+00	8.14E+00
			Be-7	<3.04E+01	0.00E+00	3.04E+01
			K-40	7.15E+01	3.70E+01	4.66E+01
Sample ID:	**360708**	**Sample Dates: 10/13/2014 - 11/10/2014**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
			Mn-54	<2.66E+00	0.00E+00	2.66E+00
			Co-58	<3.01E+00	0.00E+00	3.01E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 131 [INDICATOR - WNW @ 0.64 miles]

Sample ID: 360708 **Sample Dates: 10/13/2014 - 11/10/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<6.74E+00	0.00E+00	6.74E+00
Co-60	<2.91E+00	0.00E+00	2.91E+00
Zn-65	<5.75E+00	0.00E+00	5.75E+00
Zr-95	<5.59E+00	0.00E+00	5.59E+00
Nb-95	<3.62E+00	0.00E+00	3.62E+00
I-131	<1.02E+01	0.00E+00	1.02E+01
Cs-134	<3.26E+00	0.00E+00	3.26E+00
Cs-137	<2.62E+00	0.00E+00	2.62E+00
BaLa-140	<7.78E+00	0.00E+00	7.78E+00
Be-7	<2.22E+01	0.00E+00	2.22E+01
K-40	<5.30E+01	0.00E+00	5.30E+01

Sample ID: 363519 **Sample Dates: 11/10/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<1.25E+00	0.00E+00	1.25E+00
Co-58	<1.48E+00	0.00E+00	1.48E+00
Fe-59	<2.54E+00	0.00E+00	2.54E+00
Co-60	<1.20E+00	0.00E+00	1.20E+00
Zn-65	<2.71E+00	0.00E+00	2.71E+00
Zr-95	<2.84E+00	0.00E+00	2.84E+00
Nb-95	<1.93E+00	0.00E+00	1.93E+00
I-131	<1.17E+01	0.00E+00	1.17E+01
Cs-134	<1.18E+00	0.00E+00	1.18E+00
Cs-137	<1.22E+00	0.00E+00	1.22E+00
BaLa-140	<4.68E+00	0.00E+00	4.68E+00
Be-7	<1.22E+01	0.00E+00	1.22E+01
K-40	4.92E+01	1.48E+01	1.94E+01

Sample ID: 364502 **Sample Dates: 8/18/2014 - 12/8/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	5.36E+02	1.33E+02	1.99E+02

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID: 280868 **Sample Dates: 12/9/2013 - 1/6/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.73E+00	0.00E+00	3.73E+00
Co-58	<3.69E+00	0.00E+00	3.69E+00
Fe-59	<1.01E+01	0.00E+00	1.01E+01
Co-60	<4.04E+00	0.00E+00	4.04E+00
Zn-65	<5.88E+00	0.00E+00	5.88E+00
Zr-95	<7.51E+00	0.00E+00	7.51E+00
Nb-95	<3.87E+00	0.00E+00	3.87E+00
I-131	<1.16E+01	0.00E+00	1.16E+01
Cs-134	<3.43E+00	0.00E+00	3.43E+00
Cs-137	<3.05E+00	0.00E+00	3.05E+00
BaLa-140	<1.00E+01	0.00E+00	1.00E+01
Be-7	<3.29E+01	0.00E+00	3.29E+01
K-40	6.22E+01	2.26E+01	4.25E+01

Sample ID: 282983 **Sample Dates: 1/6/2014 - 2/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.82E+00	0.00E+00	3.82E+00
Co-58	<4.31E+00	0.00E+00	4.31E+00
Fe-59	<1.04E+01	0.00E+00	1.04E+01
Co-60	<5.26E+00	0.00E+00	5.26E+00
Zn-65	<8.88E+00	0.00E+00	8.88E+00
Zr-95	<6.79E+00	0.00E+00	6.79E+00
Nb-95	<3.82E+00	0.00E+00	3.82E+00
I-131	<1.44E+01	0.00E+00	1.44E+01
Cs-134	<3.69E+00	0.00E+00	3.69E+00
Cs-137	<4.41E+00	0.00E+00	4.41E+00
BaLa-140	<1.26E+01	0.00E+00	1.26E+01
Be-7	<4.16E+01	0.00E+00	4.16E+01
K-40	1.67E+02	2.50E+01	4.24E+01

Sample ID: 284705 **Sample Dates: 12/9/2013 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	<3.06E+01	0.00E+00	1.89E+02

Sample ID: 285763 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.36E+00	0.00E+00	3.36E+00
Co-58	<3.34E+00	0.00E+00	3.34E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 285763 **Sample Dates: 2/3/2014 - 3/3/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Fe-59	<8.36E+00	0.00E+00	8.36E+00
Co-60	<4.90E+00	0.00E+00	4.90E+00
Zn-65	<6.15E+00	0.00E+00	6.15E+00
Zr-95	<8.01E+00	0.00E+00	8.01E+00
Nb-95	<4.34E+00	0.00E+00	4.34E+00
I-131	<1.40E+01	0.00E+00	1.40E+01
Cs-134	<2.51E+00	0.00E+00	2.51E+00
Cs-137	<3.34E+00	0.00E+00	3.34E+00
BaLa-140	<1.18E+01	0.00E+00	1.18E+01
Be-7	<3.19E+01	0.00E+00	3.19E+01
K-40	9.44E+01	1.95E+01	2.80E+01

Sample ID: 289127 **Sample Dates: 3/3/2014 - 3/31/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.04E+00	0.00E+00	3.04E+00
Co-58	<3.56E+00	0.00E+00	3.56E+00
Fe-59	<6.56E+00	0.00E+00	6.56E+00
Co-60	<3.76E+00	0.00E+00	3.76E+00
Zn-65	<7.32E+00	0.00E+00	7.32E+00
Zr-95	<6.23E+00	0.00E+00	6.23E+00
Nb-95	<4.07E+00	0.00E+00	4.07E+00
I-131	<1.12E+01	0.00E+00	1.12E+01
Cs-134	<3.65E+00	0.00E+00	3.65E+00
Cs-137	<3.82E+00	0.00E+00	3.82E+00
BaLa-140	<8.98E+00	0.00E+00	8.98E+00
Be-7	<3.09E+01	0.00E+00	3.09E+01
K-40	6.00E+01	1.54E+01	3.51E+01

Sample ID: 292822 **Sample Dates: 3/31/2014 - 4/28/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.24E+00	0.00E+00	4.24E+00
Co-58	<4.51E+00	0.00E+00	4.51E+00
Fe-59	<9.74E+00	0.00E+00	9.74E+00
Co-60	<4.17E+00	0.00E+00	4.17E+00
Zn-65	<8.86E+00	0.00E+00	8.86E+00
Zr-95	<8.25E+00	0.00E+00	8.25E+00
Nb-95	<4.50E+00	0.00E+00	4.50E+00
I-131	<1.34E+01	0.00E+00	1.34E+01
Cs-134	<4.07E+00	0.00E+00	4.07E+00
Cs-137	<4.82E+00	0.00E+00	4.82E+00
BaLa-140	<1.02E+01	0.00E+00	1.02E+01
Be-7	<4.21E+01	0.00E+00	4.21E+01
K-40	4.38E+01	2.30E+01	5.02E+01

Sample ID: 295223 **Sample Dates: 3/3/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	<-8.9E+01	0.00E+00	1.88E+02

Sample ID: 295485 **Sample Dates: 4/28/2014 - 5/27/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.14E+00	0.00E+00	3.14E+00
Co-58	<3.40E+00	0.00E+00	3.40E+00
Fe-59	<6.41E+00	0.00E+00	6.41E+00
Co-60	<3.25E+00	0.00E+00	3.25E+00
Zn-65	<6.12E+00	0.00E+00	6.12E+00
Zr-95	<6.00E+00	0.00E+00	6.00E+00
Nb-95	<4.07E+00	0.00E+00	4.07E+00
I-131	<1.23E+01	0.00E+00	1.23E+01
Cs-134	<2.83E+00	0.00E+00	2.83E+00
Cs-137	<3.30E+00	0.00E+00	3.30E+00
BaLa-140	<8.31E+00	0.00E+00	8.31E+00
Be-7	<2.64E+01	0.00E+00	2.64E+01
K-40	1.20E+02	1.64E+01	2.79E+01

Sample ID: 296993 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<4.27E+00	0.00E+00	4.27E+00
Co-58	<4.24E+00	0.00E+00	4.24E+00
Fe-59	<9.33E+00	0.00E+00	9.33E+00
Co-60	<6.12E+00	0.00E+00	6.12E+00
Zn-65	<8.54E+00	0.00E+00	8.54E+00
Zr-95	<8.84E+00	0.00E+00	8.84E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 296993 **Sample Dates: 5/27/2014 - 6/23/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Nb-95	<5.73E+00	0.00E+00	5.73E+00
I-131	<1.34E+01	0.00E+00	1.34E+01
Cs-134	<4.59E+00	0.00E+00	4.59E+00
Cs-137	<5.65E+00	0.00E+00	5.65E+00
BaLa-140	<1.02E+01	0.00E+00	1.02E+01
Be-7	<3.50E+01	0.00E+00	3.50E+01
K-40	9.16E+01	2.65E+01	5.53E+01

Sample ID: 350547 **Sample Dates: 6/23/2014 - 7/21/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.34E+00	0.00E+00	2.34E+00
Co-58	<2.66E+00	0.00E+00	2.66E+00
Fe-59	<5.41E+00	0.00E+00	5.41E+00
Co-60	<2.78E+00	0.00E+00	2.78E+00
Zn-65	<5.07E+00	0.00E+00	5.07E+00
Zr-95	<4.63E+00	0.00E+00	4.63E+00
Nb-95	<3.46E+00	0.00E+00	3.46E+00
I-131	<1.19E+01	0.00E+00	1.19E+01
Cs-134	<2.01E+00	0.00E+00	2.01E+00
Cs-137	<2.83E+00	0.00E+00	2.83E+00
BaLa-140	<8.11E+00	0.00E+00	8.11E+00
Be-7	<2.33E+01	0.00E+00	2.33E+01
K-40	5.21E+01	3.07E+01	4.59E+01

Sample ID: 352243 **Sample Dates: 7/21/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.37E+00	0.00E+00	3.37E+00
Co-58	<3.54E+00	0.00E+00	3.54E+00
Fe-59	<9.22E+00	0.00E+00	9.22E+00
Co-60	<2.93E+00	0.00E+00	2.93E+00
Zn-65	<7.04E+00	0.00E+00	7.04E+00
Zr-95	<5.94E+00	0.00E+00	5.94E+00
Nb-95	<4.33E+00	0.00E+00	4.33E+00
I-131	<1.18E+01	0.00E+00	1.18E+01
Cs-134	<3.56E+00	0.00E+00	3.56E+00
Cs-137	<4.61E+00	0.00E+00	4.61E+00
BaLa-140	<7.77E+00	0.00E+00	7.77E+00
Be-7	<2.83E+01	0.00E+00	2.83E+01
K-40	<6.63E+01	0.00E+00	6.63E+01

Sample ID: 354207 **Sample Dates: 5/27/2014 - 8/18/2014**

Nuclide	Activity	Sigma Error [1]	LLD
H3SW	2.57E+02	1.18E+02	1.88E+02

Sample ID: 355157 **Sample Dates: 8/18/2014 - 9/15/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.11E+00	0.00E+00	3.11E+00
Co-58	<3.60E+00	0.00E+00	3.60E+00
Fe-59	<4.76E+00	0.00E+00	4.76E+00
Co-60	<3.96E+00	0.00E+00	3.96E+00
Zn-65	<6.34E+00	0.00E+00	6.34E+00
Zr-95	<8.16E+00	0.00E+00	8.16E+00
Nb-95	<4.36E+00	0.00E+00	4.36E+00
I-131	<1.14E+01	0.00E+00	1.14E+01
Cs-134	<4.38E+00	0.00E+00	4.38E+00
Cs-137	<3.58E+00	0.00E+00	3.58E+00
BaLa-140	<9.80E+00	0.00E+00	9.80E+00
Be-7	<3.04E+01	0.00E+00	3.04E+01
K-40	5.35E+01	3.96E+01	5.88E+01

Sample ID: 358045 **Sample Dates: 9/15/2014 - 10/13/2014**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.77E+00	0.00E+00	3.77E+00
Co-58	<4.01E+00	0.00E+00	4.01E+00
Fe-59	<5.33E+00	0.00E+00	5.33E+00
Co-60	<3.49E+00	0.00E+00	3.49E+00
Zn-65	<8.90E+00	0.00E+00	8.90E+00
Zr-95	<6.77E+00	0.00E+00	6.77E+00
Nb-95	<5.27E+00	0.00E+00	5.27E+00
I-131	<1.18E+01	0.00E+00	1.18E+01
Cs-134	<4.18E+00	0.00E+00	4.18E+00
Cs-137	<3.14E+00	0.00E+00	3.14E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 135 [CONTROL - N @ 11.9 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error [1]	LLD
358045	9/15/2014 - 10/13/2014	BaLa-140	<8.78E+00	0.00E+00	8.78E+00
		Be-7	<3.28E+01	0.00E+00	3.28E+01
		K-40	4.83E+01	3.24E+01	4.39E+01
360709	10/13/2014 - 11/10/2014	Mn-54	<2.52E+00	0.00E+00	2.52E+00
		Co-58	<2.06E+00	0.00E+00	2.06E+00
		Fe-59	<5.43E+00	0.00E+00	5.43E+00
		Co-60	<2.00E+00	0.00E+00	2.00E+00
		Zn-65	<4.24E+00	0.00E+00	4.24E+00
		Zr-95	<3.47E+00	0.00E+00	3.47E+00
		Nb-95	<2.91E+00	0.00E+00	2.91E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<3.19E+00	0.00E+00	3.19E+00
		Cs-137	<2.73E+00	0.00E+00	2.73E+00
		BaLa-140	<7.14E+00	0.00E+00	7.14E+00
		Be-7	<2.49E+01	0.00E+00	2.49E+01
		K-40	<3.47E+01	0.00E+00	3.47E+01
363520	11/10/2014 - 12/8/2014	Mn-54	<1.47E+00	0.00E+00	1.47E+00
		Co-58	<1.71E+00	0.00E+00	1.71E+00
		Fe-59	<4.08E+00	0.00E+00	4.08E+00
		Co-60	<1.59E+00	0.00E+00	1.59E+00
		Zn-65	<3.05E+00	0.00E+00	3.05E+00
		Zr-95	<3.25E+00	0.00E+00	3.25E+00
		Nb-95	<2.34E+00	0.00E+00	2.34E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<1.86E+00	0.00E+00	1.86E+00
		Cs-137	<1.51E+00	0.00E+00	1.51E+00
		BaLa-140	<5.96E+00	0.00E+00	5.96E+00
		Be-7	<1.50E+01	0.00E+00	1.50E+01
		K-40	1.08E+02	2.03E+01	2.28E+01
364503	8/18/2014 - 12/8/2014	H3SW	<-1.5E+01	0.00E+00	1.99E+02

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

Sample Point 143 [INDICATOR - NW @ 0.27 miles] — **TLD RING TLD_INNER**

Sample ID:	Sample Dates:	Nuclide	Activity
286496	12/18/2013 - 3/19/2014	mR/Std Qtr	16.65
296444	3/19/2014 - 6/18/2014	mR/Std Qtr	14.58
365593	6/18/2014 - 9/17/2014	mR/Std Qtr	15.47
362502	9/17/2014 - 12/17/2014	mR/Std Qtr	17.27

Sample Point 144 [INDICATOR - NNE @ 0.46 miles] — **TLD RING TLD_INNER**

Sample ID:	Sample Dates:	Nuclide	Activity
286497	12/18/2013 - 3/19/2014	mR/Std Qtr	17.57
296445	3/19/2014 - 6/18/2014	mR/Std Qtr	16.48
365594	6/18/2014 - 9/17/2014	mR/Std Qtr	14.58
362503	9/17/2014 - 12/17/2014	mR/Std Qtr	15.48

Sample Point 145 [INDICATOR - NE @ 0.47 miles] — **TLD RING TLD_INNER**

Sample ID:	Sample Dates:	Nuclide	Activity
286498	12/18/2013 - 3/19/2014	mR/Std Qtr	18.65

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 145 [INDICATOR - NE @ 0.47 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
296446	3/19/2014 - 6/18/2014	mR/Std Qtr	13.44
365595	6/18/2014 - 9/17/2014	mR/Std Qtr	14.58
362504	9/17/2014 - 12/17/2014	mR/Std Qtr	17.39

Sample Point 146 [INDICATOR - ENE @ 0.42 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286499	12/18/2013 - 3/19/2014	mR/Std Qtr	14.71
296447	3/19/2014 - 6/18/2014	mR/Std Qtr	11.89
365596	6/18/2014 - 9/17/2014	mR/Std Qtr	13.40
362505	9/17/2014 - 12/17/2014	mR/Std Qtr	15.04

Sample Point 147 [INDICATOR - E @ 0.44 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286500	12/18/2013 - 3/19/2014	mR/Std Qtr	17.95
296448	3/19/2014 - 6/18/2014	mR/Std Qtr	14.55
365597	6/18/2014 - 9/17/2014	mR/Std Qtr	14.86
362506	9/17/2014 - 12/17/2014	mR/Std Qtr	16.85

Sample Point 148 [INDICATOR - ESE @ 0.46 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286501	12/18/2013 - 3/19/2014	mR/Std Qtr	14.45
296449	3/19/2014 - 6/18/2014	mR/Std Qtr	11.28
365598	6/18/2014 - 9/17/2014	mR/Std Qtr	13.38
362507	9/17/2014 - 12/17/2014	mR/Std Qtr	13.85

Sample Point 149 [INDICATOR - SE @ 0.5 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286502	12/18/2013 - 3/19/2014	mR/Std Qtr	13.94
296450	3/19/2014 - 6/18/2014	mR/Std Qtr	11.57
365599	6/18/2014 - 9/17/2014	mR/Std Qtr	12.00
362508	9/17/2014 - 12/17/2014	mR/Std Qtr	11.13

Sample Point 151 [INDICATOR - S @ 0.37 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286503	12/18/2013 - 3/19/2014	mR/Std Qtr	16.02
296451	3/19/2014 - 6/18/2014	mR/Std Qtr	12.07
365600	6/18/2014 - 9/17/2014	mR/Std Qtr	14.97

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample Point 151 [INDICATOR - S @ 0.37 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
362509	9/17/2014 - 12/17/2014	mR/Std Qtr	14.8

Sample Point 152 [INDICATOR - SSW @ 0.44 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286504	12/18/2013 - 3/19/2014	mR/Std Qtr	13.29
296452	3/19/2014 - 6/18/2014	mR/Std Qtr	13.33
365601	6/18/2014 - 9/17/2014	mR/Std Qtr	14.19
362510	9/17/2014 - 12/17/2014	mR/Std Qtr	13.84

Sample Point 153 [INDICATOR - SW @ 0.47 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286505	12/18/2013 - 3/19/2014	mR/Std Qtr	19.41
296453	3/19/2014 - 6/18/2014	mR/Std Qtr	16.59
365602	6/18/2014 - 9/17/2014	mR/Std Qtr	18.17
362511	9/17/2014 - 12/17/2014	mR/Std Qtr	20.68

Sample Point 154 [INDICATOR - W @ 0.45 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286506	12/18/2013 - 3/19/2014	mR/Std Qtr	24.73
296454	3/19/2014 - 6/18/2014	mR/Std Qtr	16.67
365603	6/18/2014 - 9/17/2014	mR/Std Qtr	18.55
362512	9/17/2014 - 12/17/2014	mR/Std Qtr	22.84

Sample Point 156 [INDICATOR - WNW @ 0.44 miles] — TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286507	12/18/2013 - 3/19/2014	mR/Std Qtr	17.97
296455	3/19/2014 - 6/18/2014	mR/Std Qtr	18.12
365604	6/18/2014 - 9/17/2014	mR/Std Qtr	14.57
362513	9/17/2014 - 12/17/2014	mR/Std Qtr	19.90

Sample Point 157 [INDICATOR - N @ 4.69 miles] — TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
286508	12/18/2013 - 3/19/2014	mR/Std Qtr	15.89
296456	3/19/2014 - 6/18/2014	mR/Std Qtr	14.36
365605	6/18/2014 - 9/17/2014	mR/Std Qtr	16.81
362514	9/17/2014 - 12/17/2014	mR/Std Qtr	14.41

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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Sample Point 158 [INDICATOR - NNE @ 4.33 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286509	12/18/2013 - 3/19/2014	mR/Std Qtr	16.09
296457	3/19/2014 - 6/18/2014	mR/Std Qtr	12.65
365606	6/18/2014 - 9/17/2014	mR/Std Qtr	14.16
362515	9/17/2014 - 12/17/2014	mR/Std Qtr	14.22

Sample Point 159 [INDICATOR - NE @ 4.73 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286510	12/18/2013 - 3/19/2014	mR/Std Qtr	24.05
362516	9/17/2014 - 12/17/2014	mR/Std Qtr	15.60

Sample Point 160 [INDICATOR - ENE @ 4.89 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286511	12/18/2013 - 3/19/2014	mR/Std Qtr	17.15
296459	3/19/2014 - 6/18/2014	mR/Std Qtr	14.56
365608	6/18/2014 - 9/17/2014	mR/Std Qtr	15.45
362517	9/17/2014 - 12/17/2014	mR/Std Qtr	18.13

Sample Point 161 [INDICATOR - E @ 4.7 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286512	12/18/2013 - 3/19/2014	mR/Std Qtr	17.0
296460	3/19/2014 - 6/18/2014	mR/Std Qtr	13.54
365609	6/18/2014 - 9/17/2014	mR/Std Qtr	16.49
362518	9/17/2014 - 12/17/2014	mR/Std Qtr	14.94

Sample Point 162 [INDICATOR - ESE @ 4.53 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286513	12/18/2013 - 3/19/2014	mR/Std Qtr	12.14
296461	3/19/2014 - 6/18/2014	mR/Std Qtr	10.29
365610	6/18/2014 - 9/17/2014	mR/Std Qtr	11.06
362519	9/17/2014 - 12/17/2014	mR/Std Qtr	12

Sample Point 163 [INDICATOR - SE @ 4.94 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286514	12/18/2013 - 3/19/2014	mR/Std Qtr	14.60
296462	3/19/2014 - 6/18/2014	mR/Std Qtr	10.38
365611	6/18/2014 - 9/17/2014	mR/Std Qtr	10.25
362520	9/17/2014 - 12/17/2014	mR/Std Qtr	11.11

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 164 [INDICATOR - SSE @ 4.64 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286515	12/18/2013 - 3/19/2014	mR/Std Qtr	11.52
296463	3/19/2014 - 6/18/2014	mR/Std Qtr	14.60
365612	6/18/2014 - 9/17/2014	mR/Std Qtr	11.19
362521	9/17/2014 - 12/17/2014	mR/Std Qtr	12.69

Sample Point 165 [INDICATOR - S @ 4.57 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286516	12/18/2013 - 3/19/2014	mR/Std Qtr	21.24
296464	3/19/2014 - 6/18/2014	mR/Std Qtr	17.22
365613	6/18/2014 - 9/17/2014	mR/Std Qtr	17.71
362522	9/17/2014 - 12/17/2014	mR/Std Qtr	20.27

Sample Point 166 [INDICATOR - SSW @ 4.44 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286517	12/18/2013 - 3/19/2014	mR/Std Qtr	19.09
296465	3/19/2014 - 6/18/2014	mR/Std Qtr	15.89
365614	6/18/2014 - 9/17/2014	mR/Std Qtr	16.68
362523	9/17/2014 - 12/17/2014	mR/Std Qtr	18.10

Sample Point 167 [INDICATOR - SW @ 4.87 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286518	12/18/2013 - 3/19/2014	mR/Std Qtr	22.47
296466	3/19/2014 - 6/18/2014	mR/Std Qtr	16.63
365615	6/18/2014 - 9/17/2014	mR/Std Qtr	19.68
362524	9/17/2014 - 12/17/2014	mR/Std Qtr	28.34

Sample Point 168 [INDICATOR - WSW @ 4.6 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286519	12/18/2013 - 3/19/2014	mR/Std Qtr	17.90
296467	3/19/2014 - 6/18/2014	mR/Std Qtr	14.40
365616	6/18/2014 - 9/17/2014	mR/Std Qtr	15.66
362525	9/17/2014 - 12/17/2014	mR/Std Qtr	18.29

Sample Point 169 [INDICATOR - W @ 4.03 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286520	12/18/2013 - 3/19/2014	mR/Std Qtr	14.62
296468	3/19/2014 - 6/18/2014	mR/Std Qtr	13.99

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 169 [INDICATOR - W @ 4.03 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
365617	6/18/2014 - 9/17/2014	mR/Std Qtr	13.08
362526	9/17/2014 - 12/17/2014	mR/Std Qtr	14.26

Sample Point 170 [INDICATOR - WNW @ 4.32 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286530	12/18/2013 - 3/19/2014	mR/Std Qtr	21.30
296478	3/19/2014 - 6/18/2014	mR/Std Qtr	17.49
365618	6/18/2014 - 9/17/2014	mR/Std Qtr	20.50
362527	9/17/2014 - 12/17/2014	mR/Std Qtr	20.24

Sample Point 171 [INDICATOR - NW @ 3.95 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286521	12/18/2013 - 3/19/2014	mR/Std Qtr	18.78
296469	3/19/2014 - 6/18/2014	mR/Std Qtr	15.37
365619	6/18/2014 - 9/17/2014	mR/Std Qtr	16.91

Sample Point 172 [INDICATOR - NNW @ 4.69 miles] — **TLD RING TLD_OUTER**

Sample ID:	Sample Dates:	Nuclide	Activity
286522	12/18/2013 - 3/19/2014	mR/Std Qtr	18.90
296470	3/19/2014 - 6/18/2014	mR/Std Qtr	13.20
365620	6/18/2014 - 9/17/2014	mR/Std Qtr	14.13
362529	9/17/2014 - 12/17/2014	mR/Std Qtr	15.67

Sample Point 173 [INDICATOR - NNW @ 8.39 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286523	12/18/2013 - 3/19/2014	mR/Std Qtr	25.02
296471	3/19/2014 - 6/18/2014	mR/Std Qtr	25.25
365621	6/18/2014 - 9/17/2014	mR/Std Qtr	23.39
362530	9/17/2014 - 12/17/2014	mR/Std Qtr	20.46

Sample Point 174 [INDICATOR - WNW @ 8.85 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286524	12/18/2013 - 3/19/2014	mR/Std Qtr	25.32
296472	3/19/2014 - 6/18/2014	mR/Std Qtr	21.03
365622	6/18/2014 - 9/17/2014	mR/Std Qtr	23.06
362531	9/17/2014 - 12/17/2014	mR/Std Qtr	22.65

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 175 [CONTROL - WNW @ 15.5 miles] — **TLD RING TLD_CTRL**

Sample ID:	Sample Dates:	Nuclide	Activity
286525	12/18/2013 - 3/19/2014	mR/Std Qtr	22.27
296473	3/19/2014 - 6/18/2014	mR/Std Qtr	21.85
365623	6/18/2014 - 9/17/2014	mR/Std Qtr	23.06
362532	9/17/2014 - 12/17/2014	mR/Std Qtr	23.08

Sample Point 177 [INDICATOR - S @ 8.77 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286526	12/18/2013 - 3/19/2014	mR/Std Qtr	14.39
296474	3/19/2014 - 6/18/2014	mR/Std Qtr	11.67
365624	6/18/2014 - 9/17/2014	mR/Std Qtr	15.00
362533	9/17/2014 - 12/17/2014	mR/Std Qtr	13.83

Sample Point 178 [INDICATOR - SE @ 9.36 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286527	12/18/2013 - 3/19/2014	mR/Std Qtr	16.71
296475	3/19/2014 - 6/18/2014	mR/Std Qtr	11.69
365625	6/18/2014 - 9/17/2014	mR/Std Qtr	16.10
362534	9/17/2014 - 12/17/2014	mR/Std Qtr	14.94

Sample Point 180 [INDICATOR - NNE @ 12.7 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286564	12/18/2013 - 3/19/2014	mR/Std Qtr	26.51
296512	3/19/2014 - 6/18/2014	mR/Std Qtr	22.41
365626	6/18/2014 - 9/17/2014	mR/Std Qtr	25.98
362535	9/17/2014 - 12/17/2014	mR/Std Qtr	29.04

Sample Point 181 [INDICATOR - NE @ 7.02 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286565	12/18/2013 - 3/19/2014	mR/Std Qtr	17.91
296513	3/19/2014 - 6/18/2014	mR/Std Qtr	14.14
365627	6/18/2014 - 9/17/2014	mR/Std Qtr	15.44
362536	9/17/2014 - 12/17/2014	mR/Std Qtr	16.48

Sample Point 182 [INDICATOR - ENE @ 6.23 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286566	12/18/2013 - 3/19/2014	mR/Std Qtr	15.01
296514	3/19/2014 - 6/18/2014	mR/Std Qtr	12.98

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample Point 182 [INDICATOR - ENE @ 6.23 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
365628	6/18/2014 - 9/17/2014	mR/Std Qtr	16.76
362537	9/17/2014 - 12/17/2014	mR/Std Qtr	19.36

Sample Point 186 [INDICATOR - NNW @ 0.24 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286567	12/18/2013 - 3/19/2014	mR/Std Qtr	17.11
296515	3/19/2014 - 6/18/2014	mR/Std Qtr	14.92
365629	6/18/2014 - 9/17/2014	mR/Std Qtr	18.10
362538	9/17/2014 - 12/17/2014	mR/Std Qtr	16.22

Sample Point 187 [INDICATOR - N @ 0.19 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286568	12/18/2013 - 3/19/2014	mR/Std Qtr	21.33
296516	3/19/2014 - 6/18/2014	mR/Std Qtr	13.58
365630	6/18/2014 - 9/17/2014	mR/Std Qtr	19.20
362539	9/17/2014 - 12/17/2014	mR/Std Qtr	15.49

Sample Point 189 [INDICATOR - SSE @ 0.43 miles] — **TLD RING TLD_INNER**

Sample ID:	Sample Dates:	Nuclide	Activity
286569	12/18/2013 - 3/19/2014	mR/Std Qtr	15.67
296517	3/19/2014 - 6/18/2014	mR/Std Qtr	14.12
365631	6/18/2014 - 9/17/2014	mR/Std Qtr	14.83
362540	9/17/2014 - 12/17/2014	mR/Std Qtr	14.94

Sample Point 190 [INDICATOR - WSW @ 0.37 miles] — **TLD RING TLD_INNER**

Sample ID:	Sample Dates:	Nuclide	Activity
286570	12/18/2013 - 3/19/2014	mR/Std Qtr	19.21
296518	3/19/2014 - 6/18/2014	mR/Std Qtr	17.92
365632	6/18/2014 - 9/17/2014	mR/Std Qtr	18.96
362541	9/17/2014 - 12/17/2014	mR/Std Qtr	19.24

Sample Point 191 [INDICATOR - NNE @ 2.84 miles] — **TLD RING TLD_SPEC**

Sample ID:	Sample Dates:	Nuclide	Activity
286571	12/18/2013 - 3/19/2014	mR/Std Qtr	17.61
296519	3/19/2014 - 6/18/2014	mR/Std Qtr	15.01
365633	6/18/2014 - 9/17/2014	mR/Std Qtr	14.92
362542	9/17/2014 - 12/17/2014	mR/Std Qtr	16.08

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID: 279581 **Sample Dates: 1/6/2014 - 1/6/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.87E+01	0.00E+00	3.87E+01
Cs-134	<3.36E+01	0.00E+00	3.36E+01
Cs-137	<4.27E+01	0.00E+00	4.27E+01
Be-7	1.23E+03	2.10E+02	3.18E+02
K-40	2.36E+03	3.31E+02	5.33E+02

Sample ID: 281218 **Sample Dates: 2/3/2014 - 2/3/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.33E+01	0.00E+00	2.33E+01
Cs-134	<1.92E+01	0.00E+00	1.92E+01
Cs-137	<1.89E+01	0.00E+00	1.89E+01
Be-7	1.72E+03	1.38E+02	1.78E+02
K-40	3.23E+03	2.28E+02	1.73E+02

Sample ID: 284399 **Sample Dates: 3/3/2014 - 3/3/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.02E+01	0.00E+00	3.02E+01
Cs-134	<2.94E+01	0.00E+00	2.94E+01
Cs-137	<3.61E+01	0.00E+00	3.61E+01
Be-7	1.17E+03	1.77E+02	2.50E+02
K-40	4.39E+03	3.19E+02	2.68E+02

Sample ID: 287036 **Sample Dates: 4/7/2014 - 4/7/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<1.13E+01	0.00E+00	1.13E+01
Cs-134	<1.19E+01	0.00E+00	1.19E+01
Cs-137	<1.48E+01	0.00E+00	1.48E+01
Be-7	6.40E+02	7.78E+01	1.02E+02
K-40	3.24E+03	1.58E+02	1.27E+02

Sample ID: 289837 **Sample Dates: 5/5/2014 - 5/5/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.11E+01	0.00E+00	3.11E+01
Cs-134	<3.63E+01	0.00E+00	3.63E+01
Cs-137	<4.33E+01	0.00E+00	4.33E+01
Be-7	2.70E+02	1.57E+02	3.18E+02
K-40	4.46E+03	4.16E+02	4.25E+02

Sample ID: 294841 **Sample Dates: 6/2/2014 - 6/2/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<2.41E+01	0.00E+00	2.41E+01
Cs-134	<2.22E+01	0.00E+00	2.22E+01
Cs-137	<2.56E+01	0.00E+00	2.56E+01
Be-7	3.50E+02	9.10E+01	1.99E+02
K-40	4.03E+03	3.35E+02	1.91E+02

Sample ID: 296609 **Sample Dates: 7/7/2014 - 7/7/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.30E+01	0.00E+00	3.30E+01
Cs-134	<2.87E+01	0.00E+00	2.87E+01
Cs-137	<4.11E+01	0.00E+00	4.11E+01
Be-7	7.14E+02	1.64E+02	2.93E+02
K-40	4.45E+03	4.03E+02	3.28E+02

Sample ID: 298128 **Sample Dates: 8/4/2014 - 8/4/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<3.17E+01	0.00E+00	3.17E+01
Co-58	<3.14E+01	0.00E+00	3.14E+01
Fe-59	<5.54E+01	0.00E+00	5.54E+01
Co-60	<2.97E+01	0.00E+00	2.97E+01
Zn-65	<5.44E+01	0.00E+00	5.44E+01
Zr-95	<4.50E+01	0.00E+00	4.50E+01
Nb-95	<2.81E+01	0.00E+00	2.81E+01
I-131	<2.61E+01	0.00E+00	2.61E+01
Cs-134	<2.43E+01	0.00E+00	2.43E+01
Cs-137	<3.13E+01	0.00E+00	3.13E+01
BaLa-140	<2.76E+01	0.00E+00	2.76E+01
Be-7	3.58E+03	5.13E+02	3.84E+02
K-40	5.63E+03	8.33E+02	2.99E+02

Sample ID: 354439 **Sample Dates: 9/2/2014 - 9/2/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<1.67E+01	0.00E+00	1.67E+01
Co-58	<1.29E+01	0.00E+00	1.29E+01
Fe-59	<4.10E+01	0.00E+00	4.10E+01
Co-60	<1.80E+01	0.00E+00	1.80E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

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

Sample Point 102 [CONTROL - WNW @ 9.89 miles]

Sample ID:	354439	Sample Dates: 9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Zn-65	<3.97E+01	0.00E+00	3.97E+01
				Zr-95	<2.87E+01	0.00E+00	2.87E+01
				Nb-95	<2.14E+01	0.00E+00	2.14E+01
				I-131	<4.12E+01	0.00E+00	4.12E+01
				Cs-134	<2.35E+01	0.00E+00	2.35E+01
				Cs-137	<1.53E+01	0.00E+00	1.53E+01
				BaLa-140	<3.23E+01	0.00E+00	3.23E+01
				Be-7	1.03E+03	2.01E+02	2.19E+02
				K-40	4.86E+03	5.68E+02	1.73E+02
Sample ID:	**357035**	**Sample Dates: 10/6/2014 - 10/6/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<4.27E+01	0.00E+00	4.27E+01
				Co-58	<3.05E+01	0.00E+00	3.05E+01
				Fe-59	<8.95E+01	0.00E+00	8.95E+01
				Co-60	<2.60E+01	0.00E+00	2.60E+01
				Zn-65	<6.52E+01	0.00E+00	6.52E+01
				Zr-95	<6.68E+01	0.00E+00	6.68E+01
				Nb-95	<3.88E+01	0.00E+00	3.88E+01
				I-131	<2.72E+01	0.00E+00	2.72E+01
				Cs-134	<4.60E+01	0.00E+00	4.60E+01
				Cs-137	<3.75E+01	0.00E+00	3.75E+01
				BaLa-140	<1.25E+01	0.00E+00	1.25E+01
				Be-7	1.92E+03	4.44E+02	4.51E+02
				K-40	4.88E+03	9.77E+02	5.93E+02
Sample ID:	**360022**	**Sample Dates: 11/3/2014 - 11/3/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<3.11E+01	0.00E+00	3.11E+01
				Co-58	<2.96E+01	0.00E+00	2.96E+01
				Fe-59	<5.26E+01	0.00E+00	5.26E+01
				Co-60	<2.31E+01	0.00E+00	2.31E+01
				Zn-65	<4.83E+01	0.00E+00	4.83E+01
				Zr-95	<3.71E+01	0.00E+00	3.71E+01
				Nb-95	<1.80E+01	0.00E+00	1.80E+01
				I-131	<1.66E+01	0.00E+00	1.66E+01
				Cs-134	<3.42E+01	0.00E+00	3.42E+01
				Cs-137	<2.33E+01	0.00E+00	2.33E+01
				BaLa-140	<2.07E+01	0.00E+00	2.07E+01
				Be-7	2.17E+03	3.49E+02	2.67E+02
				K-40	4.37E+03	6.98E+02	3.93E+02
Sample ID:	**362775**	**Sample Dates: 12/1/2014 - 12/1/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<3.72E+01	0.00E+00	3.72E+01
				Co-58	<2.68E+01	0.00E+00	2.68E+01
				Fe-59	<6.09E+01	0.00E+00	6.09E+01
				Co-60	<2.20E+01	0.00E+00	2.20E+01
				Zn-65	<7.15E+01	0.00E+00	7.15E+01
				Zr-95	<5.42E+01	0.00E+00	5.42E+01
				Nb-95	<2.70E+01	0.00E+00	2.70E+01
				I-131	<2.27E+01	0.00E+00	2.27E+01
				Cs-134	<3.88E+01	0.00E+00	3.88E+01
				Cs-137	<3.25E+01	0.00E+00	3.25E+01
				BaLa-140	<2.25E+01	0.00E+00	2.25E+01
				Be-7	2.08E+03	3.89E+02	3.34E+02
				K-40	3.18E+03	6.64E+02	4.97E+02

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID:	279594	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<3.74E+01	0.00E+00	3.74E+01
				Cs-134	<3.62E+01	0.00E+00	3.62E+01
				Cs-137	<3.80E+01	0.00E+00	3.80E+01
				Be-7	8.49E+02	1.48E+02	2.40E+02
				K-40	3.27E+03	3.76E+02	3.39E+02
Sample ID:	**281237**	**Sample Dates: 2/3/2014 - 2/3/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<4.43E+01	0.00E+00	4.43E+01
				Cs-134	<3.77E+01	0.00E+00	3.77E+01
				Cs-137	<3.39E+01	0.00E+00	3.39E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	281237	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Be-7	7.96E+02	1.43E+02	2.15E+02
				K-40	3.92E+03	4.32E+02	3.63E+02
Sample ID:	284434	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<1.50E+01	0.00E+00	1.50E+01
				Cs-134	<1.46E+01	0.00E+00	1.46E+01
				Cs-137	<1.76E+01	0.00E+00	1.76E+01
				Be-7	2.41E+02	8.25E+01	1.30E+02
				K-40	1.22E+03	1.63E+02	2.04E+02
Sample ID:	287078	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<1.97E+01	0.00E+00	1.97E+01
				Cs-134	<1.77E+01	0.00E+00	1.77E+01
				Cs-137	<2.49E+01	0.00E+00	2.49E+01
				Be-7	<2.34E+02	0.00E+00	2.34E+02
				K-40	3.51E+03	2.62E+02	1.82E+02
Sample ID:	289850	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<2.58E+01	0.00E+00	2.58E+01
				Cs-134	<2.46E+01	0.00E+00	2.46E+01
				Cs-137	<3.51E+01	0.00E+00	3.51E+01
				Be-7	4.14E+02	1.28E+02	2.10E+02
				K-40	4.74E+03	3.90E+02	4.40E+02
Sample ID:	294854	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<2.85E+01	0.00E+00	2.85E+01
				Cs-134	<3.07E+01	0.00E+00	3.07E+01
				Cs-137	<2.80E+01	0.00E+00	2.80E+01
				Be-7	1.70E+02	9.62E+01	2.33E+02
				K-40	4.04E+03	3.87E+02	3.53E+02
Sample ID:	296622	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<4.04E+01	0.00E+00	4.04E+01
				Cs-134	<3.78E+01	0.00E+00	3.78E+01
				Cs-137	<4.55E+01	0.00E+00	4.55E+01
				Be-7	4.95E+02	1.80E+02	2.97E+02
				K-40	3.06E+03	4.08E+02	6.76E+02
Sample ID:	298141	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<4.01E+01	0.00E+00	4.01E+01
				Co-58	<3.52E+01	0.00E+00	3.52E+01
				Fe-59	<7.57E+01	0.00E+00	7.57E+01
				Co-60	<4.08E+01	0.00E+00	4.08E+01
				Zn-65	<6.04E+01	0.00E+00	6.04E+01
				Zr-95	<6.08E+01	0.00E+00	6.08E+01
				Nb-95	<4.51E+01	0.00E+00	4.51E+01
				I-131	<3.64E+01	0.00E+00	3.64E+01
				Cs-134	<3.53E+01	0.00E+00	3.53E+01
				Cs-137	<4.86E+01	0.00E+00	4.86E+01
				BaLa-140	<6.52E+01	0.00E+00	6.52E+01
				Be-7	9.31E+02	3.37E+02	4.14E+02
				K-40	3.76E+03	9.28E+02	8.11E+02
Sample ID:	354440	Sample Dates: 9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Mn-54	<2.24E+01	0.00E+00	2.24E+01
				Co-58	<2.62E+01	0.00E+00	2.62E+01
				Fe-59	<4.76E+01	0.00E+00	4.76E+01
				Co-60	<4.01E+01	0.00E+00	4.01E+01
				Zn-65	<5.43E+01	0.00E+00	5.43E+01
				Zr-95	<4.66E+01	0.00E+00	4.66E+01
				Nb-95	<2.35E+01	0.00E+00	2.35E+01
				I-131	<1.80E+01	0.00E+00	1.80E+01
				Cs-134	<2.72E+01	0.00E+00	2.72E+01
				Cs-137	<3.13E+01	0.00E+00	3.13E+01
				BaLa-140	<2.98E+01	0.00E+00	2.98E+01
				Be-7	7.66E+02	3.51E+02	5.29E+02
				K-40	4.92E+03	7.82E+02	5.03E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Sample Point 120 [INDICATOR - NNE @ 0.46 miles]

Sample ID: 357036 **Sample Dates: 10/6/2014 - 10/6/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.64E+01	0.00E+00	2.64E+01
Co-58	<2.41E+01	0.00E+00	2.41E+01
Fe-59	<4.60E+01	0.00E+00	4.60E+01
Co-60	<2.60E+01	0.00E+00	2.60E+01
Zn-65	<6.78E+01	0.00E+00	6.78E+01
Zr-95	<4.29E+01	0.00E+00	4.29E+01
Nb-95	<2.70E+01	0.00E+00	2.70E+01
I-131	<2.56E+01	0.00E+00	2.56E+01
Cs-134	<3.20E+01	0.00E+00	3.20E+01
Cs-137	<2.29E+01	0.00E+00	2.29E+01
BaLa-140	<2.85E+01	0.00E+00	2.85E+01
Be-7	1.20E+03	2.71E+02	3.29E+02
K-40	4.09E+03	6.24E+02	3.85E+02

Sample ID: 360023 **Sample Dates: 11/3/2014 - 11/3/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<8.69E+00	0.00E+00	8.69E+00
Co-58	<8.71E+00	0.00E+00	8.71E+00
Fe-59	<2.12E+01	0.00E+00	2.12E+01
Co-60	<9.39E+00	0.00E+00	9.39E+00
Zn-65	<2.14E+01	0.00E+00	2.14E+01
Zr-95	<1.37E+01	0.00E+00	1.37E+01
Nb-95	<8.57E+00	0.00E+00	8.57E+00
I-131	<8.11E+00	0.00E+00	8.11E+00
Cs-134	<1.17E+01	0.00E+00	1.17E+01
Cs-137	<8.22E+00	0.00E+00	8.22E+00
BaLa-140	<8.36E+00	0.00E+00	8.36E+00
Be-7	1.16E+03	1.40E+02	7.93E+01
K-40	3.10E+03	3.43E+02	1.11E+02

Sample ID: 362776 **Sample Dates: 12/1/2014 - 12/1/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
Mn-54	<2.91E+01	0.00E+00	2.91E+01
Co-58	<3.06E+01	0.00E+00	3.06E+01
Fe-59	<5.79E+01	0.00E+00	5.79E+01
Co-60	<3.99E+01	0.00E+00	3.99E+01
Zn-65	<8.19E+01	0.00E+00	8.19E+01
Zr-95	<5.58E+01	0.00E+00	5.58E+01
Nb-95	<3.27E+01	0.00E+00	3.27E+01
I-131	<3.31E+01	0.00E+00	3.31E+01
Cs-134	<2.85E+01	0.00E+00	2.85E+01
Cs-137	<4.21E+01	0.00E+00	4.21E+01
BaLa-140	<6.03E+01	0.00E+00	6.03E+01
Be-7	1.90E+02	2.02E+02	3.24E+02
K-40	4.26E+03	8.15E+02	4.67E+02

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID: 279584 **Sample Dates: 1/6/2014 - 1/6/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.43E+01	0.00E+00	3.43E+01
Cs-134	<3.50E+01	0.00E+00	3.50E+01
Cs-137	<4.96E+01	0.00E+00	4.96E+01
Be-7	9.65E+02	1.88E+02	2.62E+02
K-40	3.45E+03	4.78E+02	7.38E+02

Sample ID: 281221 **Sample Dates: 2/3/2014 - 2/3/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.50E+01	0.00E+00	3.50E+01
Cs-134	<3.51E+01	0.00E+00	3.51E+01
Cs-137	<3.62E+01	0.00E+00	3.62E+01
Be-7	5.72E+02	1.72E+02	3.12E+02
K-40	3.80E+03	4.62E+02	4.30E+02

Sample ID: 284404 **Sample Dates: 3/3/2014 - 3/3/2014** **MIXEDBLV**

Nuclide	Activity	Sigma Error [1]	LLD
I-131	<3.73E+01	0.00E+00	3.73E+01
Cs-134	<2.28E+01	0.00E+00	2.28E+01
Cs-137	<4.00E+01	0.00E+00	4.00E+01
Be-7	4.23E+02	1.44E+02	3.03E+02
K-40	3.46E+03	3.76E+02	3.62E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	287041	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				I-131	<3.53E+01	0.00E+00	3.53E+01
				Cs-134	<3.40E+01	0.00E+00	3.40E+01
				Cs-137	<4.29E+01	0.00E+00	4.29E+01
				Be-7	5.36E+02	1.46E+02	2.64E+02
				K-40	3.02E+03	3.62E+02	5.16E+02
Sample ID:	**289842**	**Sample Dates: 5/5/2014 - 5/5/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<2.12E+01	0.00E+00	2.12E+01
				Cs-134	<2.38E+01	0.00E+00	2.38E+01
				Cs-137	<2.58E+01	0.00E+00	2.58E+01
				Be-7	<2.78E+02	0.00E+00	2.78E+02
				K-40	4.39E+03	3.27E+02	2.83E+02
Sample ID:	**294846**	**Sample Dates: 6/2/2014 - 6/2/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<2.63E+01	0.00E+00	2.63E+01
				Cs-134	<2.44E+01	0.00E+00	2.44E+01
				Cs-137	<3.38E+01	0.00E+00	3.38E+01
				Be-7	4.09E+02	1.35E+02	2.28E+02
				K-40	4.30E+03	3.95E+02	3.54E+02
Sample ID:	**296614**	**Sample Dates: 7/7/2014 - 7/7/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<4.32E+01	0.00E+00	4.32E+01
				Cs-134	<4.14E+01	0.00E+00	4.14E+01
				Cs-137	<5.54E+01	0.00E+00	5.54E+01
				Be-7	8.98E+02	1.98E+02	2.81E+02
				K-40	3.70E+03	4.24E+02	4.74E+02
Sample ID:	**298133**	**Sample Dates: 8/4/2014 - 8/4/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<4.24E+01	0.00E+00	4.24E+01
				Co-58	<3.30E+01	0.00E+00	3.30E+01
				Fe-59	<8.20E+01	0.00E+00	8.20E+01
				Co-60	<5.00E+01	0.00E+00	5.00E+01
				Zn-65	<8.58E+01	0.00E+00	8.58E+01
				Zr-95	<7.87E+01	0.00E+00	7.87E+01
				Nb-95	<3.63E+01	0.00E+00	3.63E+01
				I-131	<3.11E+01	0.00E+00	3.11E+01
				Cs-134	<2.76E+01	0.00E+00	2.76E+01
				Cs-137	<3.19E+01	0.00E+00	3.19E+01
				BaLa-140	<6.00E+01	0.00E+00	6.00E+01
				Be-7	7.58E+02	3.37E+02	4.57E+02
				K-40	3.30E+03	8.01E+02	4.95E+02
Sample ID:	**354441**	**Sample Dates: 9/2/2014 - 9/2/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<1.45E+01	0.00E+00	1.45E+01
				Co-58	<1.53E+01	0.00E+00	1.53E+01
				Fe-59	<3.23E+01	0.00E+00	3.23E+01
				Co-60	<1.95E+01	0.00E+00	1.95E+01
				Zn-65	<3.36E+01	0.00E+00	3.36E+01
				Zr-95	<3.09E+01	0.00E+00	3.09E+01
				Nb-95	<1.87E+01	0.00E+00	1.87E+01
				I-131	<4.49E+01	0.00E+00	4.49E+01
				Cs-134	<2.31E+01	0.00E+00	2.31E+01
				Cs-137	<1.69E+01	0.00E+00	1.69E+01
				BaLa-140	<2.70E+01	0.00E+00	2.70E+01
				Be-7	1.11E+03	2.18E+02	2.62E+02
				K-40	3.95E+03	4.78E+02	2.37E+02
Sample ID:	**357037**	**Sample Dates: 10/6/2014 - 10/6/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<2.51E+01	0.00E+00	2.51E+01
				Co-58	<2.48E+01	0.00E+00	2.48E+01
				Fe-59	<4.94E+01	0.00E+00	4.94E+01
				Co-60	<3.81E+01	0.00E+00	3.81E+01
				Zn-65	<7.70E+01	0.00E+00	7.70E+01
				Zr-95	<4.30E+01	0.00E+00	4.30E+01
				Nb-95	<3.16E+01	0.00E+00	3.16E+01
				I-131	<2.09E+01	0.00E+00	2.09E+01
				Cs-134	<2.93E+01	0.00E+00	2.93E+01
				Cs-137	<2.87E+01	0.00E+00	2.87E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

EnRad Laboratories
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Sample Point 125 [INDICATOR - SW @ 0.38 miles]

Sample ID:	Sample Dates		Nuclide	Activity	Sigma Error [1]	LLD
357037	10/6/2014 - 10/6/2014	MIXEDBLV	BaLa-140	<2.75E+01	0.00E+00	2.75E+01
			Be-7	1.74E+03	3.20E+02	2.56E+02
			K-40	3.91E+03	6.95E+02	4.54E+02
360024	11/3/2014 - 11/3/2014	MIXEDBLV	Mn-54	<1.89E+01	0.00E+00	1.89E+01
			Co-58	<2.02E+01	0.00E+00	2.02E+01
			Fe-59	<3.66E+01	0.00E+00	3.66E+01
			Co-60	<1.70E+01	0.00E+00	1.70E+01
			Zn-65	<4.13E+01	0.00E+00	4.13E+01
			Zr-95	<4.17E+01	0.00E+00	4.17E+01
			Nb-95	<2.31E+01	0.00E+00	2.31E+01
			I-131	<1.51E+01	0.00E+00	1.51E+01
			Cs-134	<2.60E+01	0.00E+00	2.60E+01
			Cs-137	<2.37E+01	0.00E+00	2.37E+01
			BaLa-140	<1.46E+01	0.00E+00	1.46E+01
			Be-7	1.08E+03	2.31E+02	2.22E+02
			K-40	3.78E+03	6.02E+02	2.82E+02
362777	12/1/2014 - 12/1/2014	MIXEDBLV	Mn-54	<2.61E+01	0.00E+00	2.61E+01
			Co-58	<1.93E+01	0.00E+00	1.93E+01
			Fe-59	<4.64E+01	0.00E+00	4.64E+01
			Co-60	<2.51E+01	0.00E+00	2.51E+01
			Zn-65	<6.04E+01	0.00E+00	6.04E+01
			Zr-95	<4.38E+01	0.00E+00	4.38E+01
			Nb-95	<2.59E+01	0.00E+00	2.59E+01
			I-131	<2.01E+01	0.00E+00	2.01E+01
			Cs-134	<2.76E+01	0.00E+00	2.76E+01
			Cs-137	<2.53E+01	0.00E+00	2.53E+01
			BaLa-140	<3.14E+01	0.00E+00	3.14E+01
			Be-7	3.41E+02	1.58E+02	2.12E+02
			K-40	3.14E+03	5.77E+02	3.80E+02

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID:	Sample Dates		Nuclide	Activity	Sigma Error [1]	LLD
279582	1/6/2014 - 1/6/2014	MIXEDBLV	I-131	<1.73E+01	0.00E+00	1.73E+01
			Cs-134	<1.40E+01	0.00E+00	1.40E+01
			Cs-137	<1.65E+01	0.00E+00	1.65E+01
			Be-7	8.98E+02	9.50E+01	1.24E+02
			K-40	3.21E+03	2.05E+02	1.18E+02
281219	2/3/2014 - 2/3/2014	MIXEDBLV	I-131	<1.88E+01	0.00E+00	1.88E+01
			Cs-134	<1.93E+01	0.00E+00	1.93E+01
			Cs-137	<1.79E+01	0.00E+00	1.79E+01
			Be-7	7.47E+02	1.10E+02	1.52E+02
			K-40	3.85E+03	2.60E+02	2.03E+02
284400	3/3/2014 - 3/3/2014	MIXEDBLV	I-131	<2.23E+01	0.00E+00	2.23E+01
			Cs-134	<2.58E+01	0.00E+00	2.58E+01
			Cs-137	<2.76E+01	0.00E+00	2.76E+01
			Be-7	7.15E+02	1.40E+02	1.85E+02
			K-40	3.07E+03	3.24E+02	3.54E+02
287037	4/7/2014 - 4/7/2014	MIXEDBLV	I-131	<2.02E+01	0.00E+00	2.02E+01
			Cs-134	<1.71E+01	0.00E+00	1.71E+01
			Cs-137	<3.04E+01	0.00E+00	3.04E+01
			Be-7	3.53E+02	1.17E+02	1.75E+02
			K-40	3.03E+03	2.78E+02	1.82E+02
289838	5/5/2014 - 5/5/2014	MIXEDBLV	I-131	<2.01E+01	0.00E+00	2.01E+01
			Cs-134	<2.38E+01	0.00E+00	2.38E+01
			Cs-137	<2.83E+01	0.00E+00	2.83E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

Sample ID:	289838	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Be-7	4.87E+02	1.21E+02	1.74E+02
				K-40	5.44E+03	3.22E+02	3.17E+02
Sample ID:	**294842**	**Sample Dates: 6/2/2014 - 6/2/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<2.05E+01	0.00E+00	2.05E+01
				Cs-134	<2.05E+01	0.00E+00	2.05E+01
				Cs-137	<2.63E+01	0.00E+00	2.63E+01
				Be-7	4.84E+02	8.24E+01	1.66E+02
				K-40	4.74E+03	3.71E+02	2.62E+02
Sample ID:	**296610**	**Sample Dates: 7/7/2014 - 7/7/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				I-131	<2.76E+01	0.00E+00	2.76E+01
				Cs-134	<2.71E+01	0.00E+00	2.71E+01
				Cs-137	<3.20E+01	0.00E+00	3.20E+01
				Be-7	7.73E+02	1.25E+02	2.39E+02
				K-40	5.42E+03	4.14E+02	2.91E+02
Sample ID:	**298129**	**Sample Dates: 8/4/2014 - 8/4/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<2.12E+01	0.00E+00	2.12E+01
				Co-58	<1.82E+01	0.00E+00	1.82E+01
				Fe-59	<3.77E+01	0.00E+00	3.77E+01
				Co-60	<3.10E+01	0.00E+00	3.10E+01
				Zn-65	<5.22E+01	0.00E+00	5.22E+01
				Zr-95	<3.75E+01	0.00E+00	3.75E+01
				Nb-95	<2.37E+01	0.00E+00	2.37E+01
				I-131	<1.76E+01	0.00E+00	1.76E+01
				Cs-134	<2.04E+01	0.00E+00	2.04E+01
				Cs-137	<2.46E+01	0.00E+00	2.46E+01
				BaLa-140	<2.59E+01	0.00E+00	2.59E+01
				Be-7	8.52E+02	2.03E+02	2.09E+02
				K-40	5.27E+03	7.33E+02	2.80E+02
Sample ID:	**354442**	**Sample Dates: 9/2/2014 - 9/2/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<1.69E+01	0.00E+00	1.69E+01
				Co-58	<2.02E+01	0.00E+00	2.02E+01
				Fe-59	<4.58E+01	0.00E+00	4.58E+01
				Co-60	<2.61E+01	0.00E+00	2.61E+01
				Zn-65	<6.71E+01	0.00E+00	6.71E+01
				Zr-95	<4.10E+01	0.00E+00	4.10E+01
				Nb-95	<2.01E+01	0.00E+00	2.01E+01
				I-131	<1.76E+01	0.00E+00	1.76E+01
				Cs-134	<2.77E+01	0.00E+00	2.77E+01
				Cs-137	<2.20E+01	0.00E+00	2.20E+01
				BaLa-140	<2.49E+01	0.00E+00	2.49E+01
				Be-7	1.07E+03	2.48E+02	2.68E+02
				K-40	4.04E+03	6.96E+02	5.81E+02
Sample ID:	**357038**	**Sample Dates: 10/6/2014 - 10/6/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<3.35E+01	0.00E+00	3.35E+01
				Co-58	<2.93E+01	0.00E+00	2.93E+01
				Fe-59	<6.75E+01	0.00E+00	6.75E+01
				Co-60	<3.80E+01	0.00E+00	3.80E+01
				Zn-65	<9.04E+01	0.00E+00	9.04E+01
				Zr-95	<5.38E+01	0.00E+00	5.38E+01
				Nb-95	<3.46E+01	0.00E+00	3.46E+01
				I-131	<2.71E+01	0.00E+00	2.71E+01
				Cs-134	<4.60E+01	0.00E+00	4.60E+01
				Cs-137	<3.51E+01	0.00E+00	3.51E+01
				BaLa-140	<1.10E+01	0.00E+00	1.10E+01
				Be-7	5.34E+02	2.84E+02	4.10E+02
				K-40	4.45E+03	8.64E+02	4.03E+02
Sample ID:	**360025**	**Sample Dates: 11/3/2014 - 11/3/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<2.49E+01	0.00E+00	2.49E+01
				Co-58	<2.39E+01	0.00E+00	2.39E+01
				Fe-59	<5.29E+01	0.00E+00	5.29E+01
				Co-60	<2.86E+01	0.00E+00	2.86E+01
				Zn-65	<6.50E+01	0.00E+00	6.50E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

MCGUIRE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

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

Sample Point 193 [INDICATOR - N @ 0.19 miles]

Sample ID:	360025	Sample Dates: 11/3/2014 - 11/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error [1]	LLD
				Zr-95	<4.58E+01	0.00E+00	4.58E+01
				Nb-95	<2.29E+01	0.00E+00	2.29E+01
				I-131	<2.28E+01	0.00E+00	2.28E+01
				Cs-134	<2.87E+01	0.00E+00	2.87E+01
				Cs-137	<2.12E+01	0.00E+00	2.12E+01
				BaLa-140	<3.26E+01	0.00E+00	3.26E+01
				Be-7	3.01E+02	1.94E+02	2.96E+02
				K-40	5.00E+03	7.25E+02	2.74E+02
Sample ID:	**362778**	**Sample Dates: 12/1/2014 - 12/1/2014**	**MIXEDBLV**	**Nuclide**	**Activity**	**Sigma Error [1]**	**LLD**
				Mn-54	<3.00E+01	0.00E+00	3.00E+01
				Co-58	<2.98E+01	0.00E+00	2.98E+01
				Fe-59	<6.92E+01	0.00E+00	6.92E+01
				Co-60	<3.18E+01	0.00E+00	3.18E+01
				Zn-65	<7.07E+01	0.00E+00	7.07E+01
				Zr-95	<4.71E+01	0.00E+00	4.71E+01
				Nb-95	<3.67E+01	0.00E+00	3.67E+01
				I-131	<3.17E+01	0.00E+00	3.17E+01
				Cs-134	<2.75E+01	0.00E+00	2.75E+01
				Cs-137	<3.46E+01	0.00E+00	3.46E+01
				BaLa-140	<5.06E+01	0.00E+00	5.06E+01
				Be-7	8.11E+02	2.68E+02	2.86E+02
				K-40	4.04E+03	8.66E+02	5.46E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.

APPENDIX F

ERRATA TO PREVIOUS REPORTS

APPENDIX F

ERRATA TO THE 2014 AREOR

I. McGuire AREORs: 2009, 2011, and 2013

Report titled "Environmental TLD Dose Report" used by the Dosimetry Laboratory to communicate final TLD results was found to have an error in the calculation of dose per standard quarter. The error would have existed since the report's first use for 2nd quarter 2009 and only applies to quarters where date ranges were other than a standard quarter (not equal to 91 days). McGuire environmental TLD data were evaluated and it was determined the quarters affected were McGuire 3Q2009, McGuire 2Q2011, and McGuire 1Q2013. McGuire environmental TLD results were updated during 2015 in the EnRad Sample Manager database to indicate the corrected dose per standard quarter values derived from the new Dosimetry Laboratory reporting mechanism. (PIP G-14-02451).

2009 McGuire AREOR entities affected:

- Section 3.9, Figure 3.9
- Section 3.9, Table 3.9
- 2009 inner ring average updated from 66.7 mR/yr to 67.7 mR/yr
- 2009 outer ring average updated from 65.3 mR/yr to 66.4 mR/yr
- 2009 control average updated from 91.2 mR/yr to 92.4 mR/yr

2009 Appendix B, Direct Radiation TLD section

2009 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
17.1 (158 / 158)	180	27.0 (4 / 4)	22.8 (4 / 4)
9.30 – 30.7	(12.7 mi NNE)	23.2 – 30.7	19.5 – 26.5

Updated 2009 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
17.4 (158 / 158)	180	27.4 (4 / 4)	23.1 (4 / 4)
10.2 – 30.7	(12.7 mi NNE)	25.1– 30.7	20.1 – 26.5

2011 McGuire AREOR entities affected:

- Section 3.9, Figure 3.9-1, Figure 3.9-2, Figure 3.9-3
- Section 3.9, Table 3.9-A, Table 3.9-B, Table 3.9-C
- 2011 inner ring average updated from 65.1 mR/yr to 65.1 mR/yr
- 2011 outer ring average updated from 66.4 mR/yr to 66.5 mR/yr
- 2011 control average updated from 94.0 mR/yr to 94.4 mR/yr

2011 Appendix B, Direct Radiation TLD section

2011 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
17.2 (159 / 159)	180	26.5 (4 / 4)	23.5 (4 / 4)
9.00 – 36.0	(12.7 mi NNE)	25.0 – 29.0	22.0 – 25.0

Updated 2011 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
17.2 (159 / 159)	180	26.5 (4 / 4)	23.6 (4 / 4)
9.00 – 36.0	(12.7 mi NNE)	25.0– 29.0	22.0 – 25.0

2013 McGuire AREOR entities affected:

- Section 3.9, Figure 3.9
- Section 3.9, Table 3.9
- 2013 inner ring average updated from 62.9 mR/yr to 64.1 mR/yr
- 2013 outer ring average updated from 64.4 mR/yr to 65.6 mR/yr
- 2013 control average updated from 92.4 mR/yr to 94.4 mR/yr

2013 Appendix B, Direct Radiation TLD section

2013 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
16.5 (160 / 160)	180	26.3 (4 / 4)	23.1 (4 / 4)
9.00 – 31.0	(12.7 mi NNE)	22.0 – 31.0	21.0 – 24.4

Updated 2013 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
16.8 (160 / 160)	180	26.8 (4 / 4)	23.6 (4 / 4)
9.00 – 33.4	(12.7 mi NNE)	22.0 – 33.4	21.0 – 26.4

II. McGuire AREOR: 2013

The Section 3, Interpretation of Results, subsection 3.8, Shoreline Sediment, Table 3.8, Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg) Cs-137 column for year 2013 incorrectly indicated a Cs-137 activity of 0.00 pCi/kg activity. The Table 3.8 Cs-137 column for year 2013 was updated to indicate a Cs-137 activity of 1.41E2 pCi/kg. The corresponding Figure 3.8 of the 2013 AREOR was correct and did not require an update.