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United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Ladies and Gentlemen:

In accordance with Technical Specification 6.9.1.3 for the Harris Nuclear Plant, Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., is providing the enclosed Annual Radiological Environmental Operating Report for 2011.

If you have questions regarding this information, please contact me at (919) 362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read "David H. Corlett".

David H. Corlett
Supervisor – Licensing/Regulatory Programs
Harris Nuclear Plant

DHC/mgw

Enclosure

- c: Mr. J. D. Austin (NRC Senior Resident Inspector, HNP)
Mr. V. M. McCree (NRC Regional Administrator, Region II)
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**HARRIS ENERGY &
ENVIRONMENTAL CENTER
CAROLINA POWER & LIGHT COMPANY
DOING BUSINESS AS
PROGRESS ENERGY CAROLINAS, INC.
NEW HILL, NORTH CAROLINA**

**RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
FOR THE
SHEARON HARRIS NUCLEAR POWER PLANT
JANUARY 1 THROUGH DECEMBER 31, 2011**

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EXECUTIVE SUMMARY

The Harris Nuclear Plant (HNP) is operated by Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., under a license granted by the Nuclear Regulatory Commission. Provisions of the Nuclear Regulatory Commission's Regulatory Guide 4.8, Harris Nuclear Plant Technical Specifications, and the Harris Nuclear Plant Offsite Dose Calculation Manual (ODCM) establish the requirements of the Radiological Environmental Monitoring Program (REMP). This report provides the results of the Radiological Environmental Monitoring program from January 1, 2011, through December 31, 2011.

The Radiological Environmental Monitoring Program (REMP) was established in 1982. Radiation and radioactivity in various environmental media have been monitored for more than 25 years, including 5 years prior to commencing operation. Monitoring is also provided for control locations, which would not be impacted by operations of the HNP. Using these control locations and data collected prior to operation allows comparison of data collected at locations near the HNP which could potentially be impacted by its operations. Radiation levels show no significant change from pre-operational radiation levels.

Monitoring results for environmental media are summarized as follows:

- During 2011, REMP samples obtained from air monitoring (air cartridge and air particulate), cow milk, drinking water, and surface water locations identified the presence of low levels of radioactive iodine-131. The detectable concentrations were not a result of HNP operations given the following facts:
 - The quantity of radioactive iodine in HNP's radiological effluents during 2011 did not increase significantly compared to 2010.
 - The REMP sample results detected the presence of Iodine-131 in the specific environmental media samples from March 14, 2011, to April 25, 2011.
 - The concentrations detected at the indicator samples were also identified at HNP control samples and throughout the region.

As such, the atypical detection of these radionuclides in both indicator and control samples is credibly attributed to the trans-Pacific transport of airborne releases from the Fukushima Dai-ichi nuclear power plant following the March 11, 2011, Tohoku earthquake and tsunami and is not related to the operation of HNP.

- Air-monitoring results are slightly higher than the concentrations of radioactivity from pre-operation monitoring. These observations are also consistent with past operational data and control data other than during the timeframe of fallout from the Fukushima Dai-ichi nuclear power plant.

- Milk and broadleaf vegetation monitoring results are similar to all the past years where no I-131 concentrations were detected other than during the timeframe of fallout from the Fukushima Dai-ichi nuclear power plant. An indicator milk-producing animal within five miles of the plant was introduced into the monitoring program mid-September 2010 (broadleaf vegetation is sampled in lieu of indicator milk samples). The broadleaf vegetation sampling continues since the indicator milk is only available about half of the year.
- Terrestrial vegetation includes various crops collected during a growing season and results indicate no by-product/plant-related activity.
- Aquatic organism monitoring includes fish and aquatic vegetation. The fish and aquatic vegetation results indicate no by-product/plant-related activity.
- Surface (and drinking) water results indicate no by-product/plant-related gamma activity, except for the I-131 noted in Interpretations and Conclusions section/ Drinking and Surface Water. This analysis is performed by an I-131 separation analysis.
- Surface water (non-drinking water) results from the Harris Lake spillway show the presence of tritium, which is attributed to plant operation, but is well below the EPA reportable non-drinking water limit (30,000 pCi/Liter) and drinking water limit (20,000 pCi/Liter). Refer to the Interpretations and Conclusions section/ Surface Water.
- Ground water results show the presence of tritium; however, the results are well below the EPA reportable non-drinking water limit (30,000 pCi/Liter) and drinking water limit (20,000 pCi/Liter). Refer to the Interpretations and Conclusions section/ Ground Water.
- External radiation dose showed no measurable change from pre-operational data.

The continued operation of the HNP has not contributed measurable radiation or the presence of gamma radioactivity, with the exception of Harris Lake bottom sediment, in the environmental monitoring program. The Harris Lake Surface water samples and the Ground water samples revealed tritium concentrations that are well within the applicable regulatory limits.

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

PURPOSE AND REQUIREMENTS FOR THE RADIOLOGICAL MONITORING PROGRAM

The operation of a nuclear generating station may increase background radiation by a small fraction. It is important to measure these emissions of radioactivity and radiation to assess their impact on the surrounding populations. The purpose of the radiological monitoring program (surveillances) is to measure accumulation of radioactivity in the environments, to determine whether this radioactivity is the result of operation of HNP, and to assess the potential dose to the off-site population based on the cumulative measurements of radioactivity of plant origin. Radiological monitoring programs provide an additional verification of the radiological controls of nuclear generating stations.

The HNP Radiological Environmental Monitoring Program was established in 1982 and has continued to collect samples and evaluate them for over 25 years.

Requirements are established for the Radiological Environmental Monitoring Program with the following:

- Technical Specifications
- Off-Site Dose Calculation Manual (ODCM)
- Various procedures

Additional guidance regarding the Radiological Environmental Monitoring Program may be found in the following:

- NRC Regulatory Guide 1.109
- NRC Regulatory Guide 4.13
- NRC Regulatory Guide 4.15

General Site Description

The Harris Nuclear Plant consists of a pressurized water reactor with a net output of approximately 900 MWe (Megawatts electric). Commercial production was initiated on January 3, 1987. HNP is located in southwest Wake County, North Carolina. The site is along U.S. route 1 approximately sixteen (16) miles southwest of Raleigh, North Carolina and is displayed on the map of central North Carolina (Figure 1). The site is also approximately fifteen (15) miles northeast of Sanford, North Carolina. The nearest community is New Hill, which is north of the site.

Harris Lake is adjacent to the plant itself and is the source of cooling tower makeup water. The lake was impounded during the construction of Harris Plant. The lake is fed by Buckhorn Creek and is approximately 4,000 acres in area. The main dam is approximately 4.7 miles south of the site. The primary discharges to Harris Lake from the plant are surface runoff, cooling tower blowdown, and radiological waste process systems.

Fishing, boating, and swimming are popular activities on Harris Lake and other nearby lakes. Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., encourages the recreational use of the lake, Harris Lake County Park, and the adjoining lands through a variety of agreements with state and local government.

Within a five mile radius most of the land is wooded with only a few residences and limited agricultural activity. There are no residences on the plant site. The chief use of the land is for production of timber and pulp fiber.

Within a ten mile radius the area is considered rural with significant populations in Apex, Holly Springs, and Fuquay-Varina. Currently these communities are experiencing significant growth.

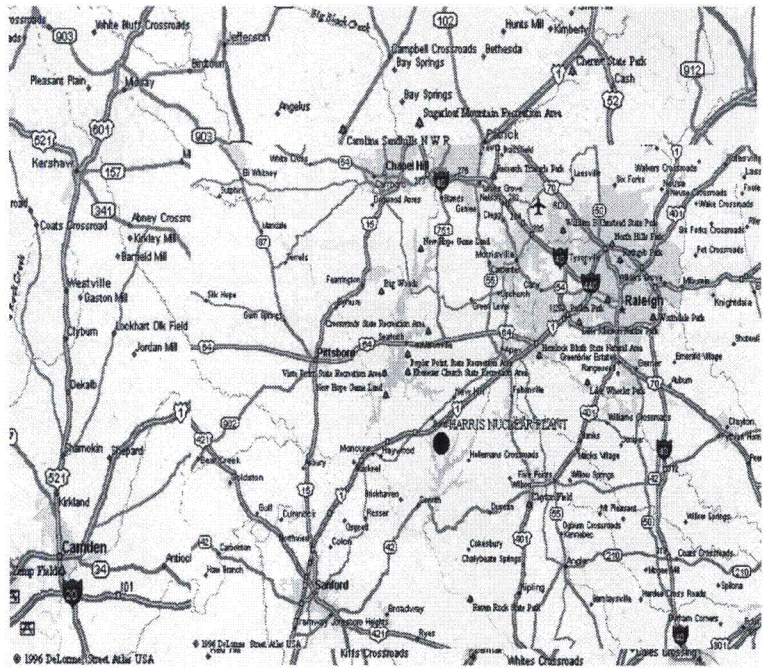


Figure 1: Location of Harris Nuclear Plant

Within a fifty-mile radius, much of the land is used in agricultural production with significant crops including corn, soybeans, and tobacco. Livestock is also an important component with significant production in cattle, hogs, poultry, and dairy products.

Consumption of drinking water, food crops, and fish are sample media that are examples of ingestion pathways for exposure.

RADIOLOGICAL MONITORING PROGRAM QUALITY ASSURANCE

A required component of the REMP is the Quality Assurance Program. The standards for the quality assurance program are established in the NRC Regulatory Guide 4.15, "Quality Assurance for Radiological Monitoring Programs." The purpose of the quality assurance program is "(1) to identify deficiencies in the sampling and measurement processes to those responsible for these operations so that corrective action can be taken, and (2) to obtain some measure of confidence in the results of the monitoring programs in order to assure the regulatory agencies and the public that the results are valid."(NRC Regulatory Guide 4.15 B Pg. 4.15-2) This provides the opportunity to implement corrective actions that address possible deficiencies. Examples of the activities of the quality assurance program include:

- regular review of sample collection and records
- regular review of laboratory procedures and methods
- participation in the Eckert & Ziegler Analytics Environmental Cross-Check Program, which provides an independent assessment of the quality of laboratory results
- the use of known concentrations of radioactivity in test samples by the laboratory to ensure consistent quality results on an ongoing basis

RADIOLOGICAL MONITORING PROGRAM GENERAL DESCRIPTION

Although the contribution to background radiation is small, Carolina Power & Light Company doing business as Progress Energy Carolinas, Inc. has established this program to measure the exposure pathways to man. An exposure pathway describes the source of the radiological exposure. The primary forms of radiological emissions from the plant are airborne and liquid discharge. The following pathways are monitored: external dose, ingestion of radioactive materials, and the inhalation of radioactive material. Specific methods and different environmental media are required to assess each pathway. Below in Table 1 is a list of the media used to assess each of these pathways.

Table 1
Media Used to Assess Exposure Pathways to Man

<u>Pathway of Exposure to Man</u>	<u>Media Sampled</u>
External Dose	Thermoluminescent Dosimetry (TLD) Shoreline Sediment
Ingestion	Aquatic Vegetation Drinking Water Food Crops Fish Ground Water Milk Broadleaf Vegetation (when Milk samples are unavailable) Surface Water
Inhalation	Air Samples (Particulate & Radioiodine)

Sampling Locations

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. A number of locations are selected as controls. Control stations are selected because they are unaffected by the operation of the plant. Sample locations may be seen in Figures 2a, 2b, 3a, 3b, and 3c. A description of each sample location may be found in Tables 2 and 3.

Radiological Environmental Sampling Locations

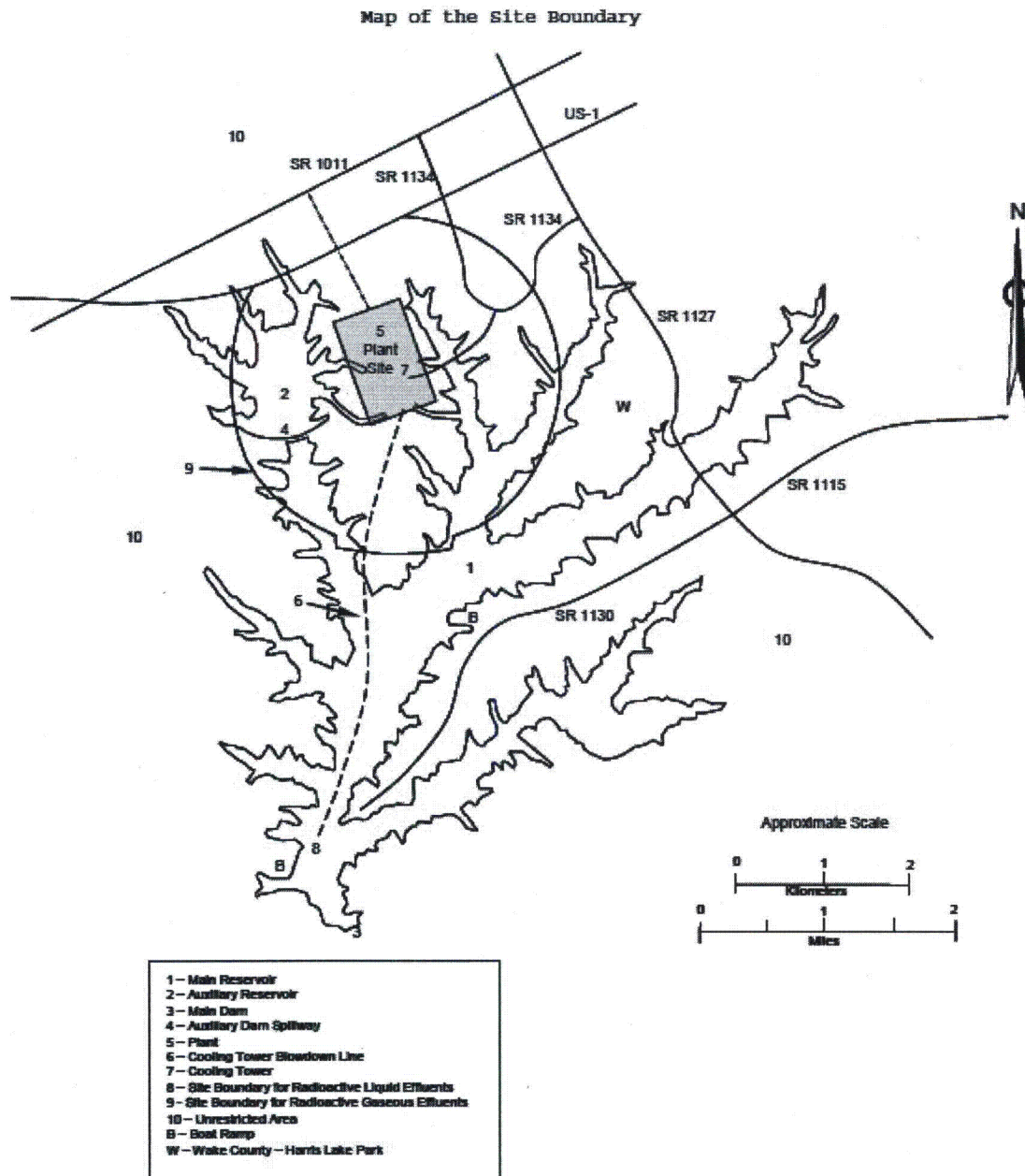


Figure 2a: Radiological Environmental Sampling Locations (Distant from Plant)

Radiological Environmental Sampling Locations

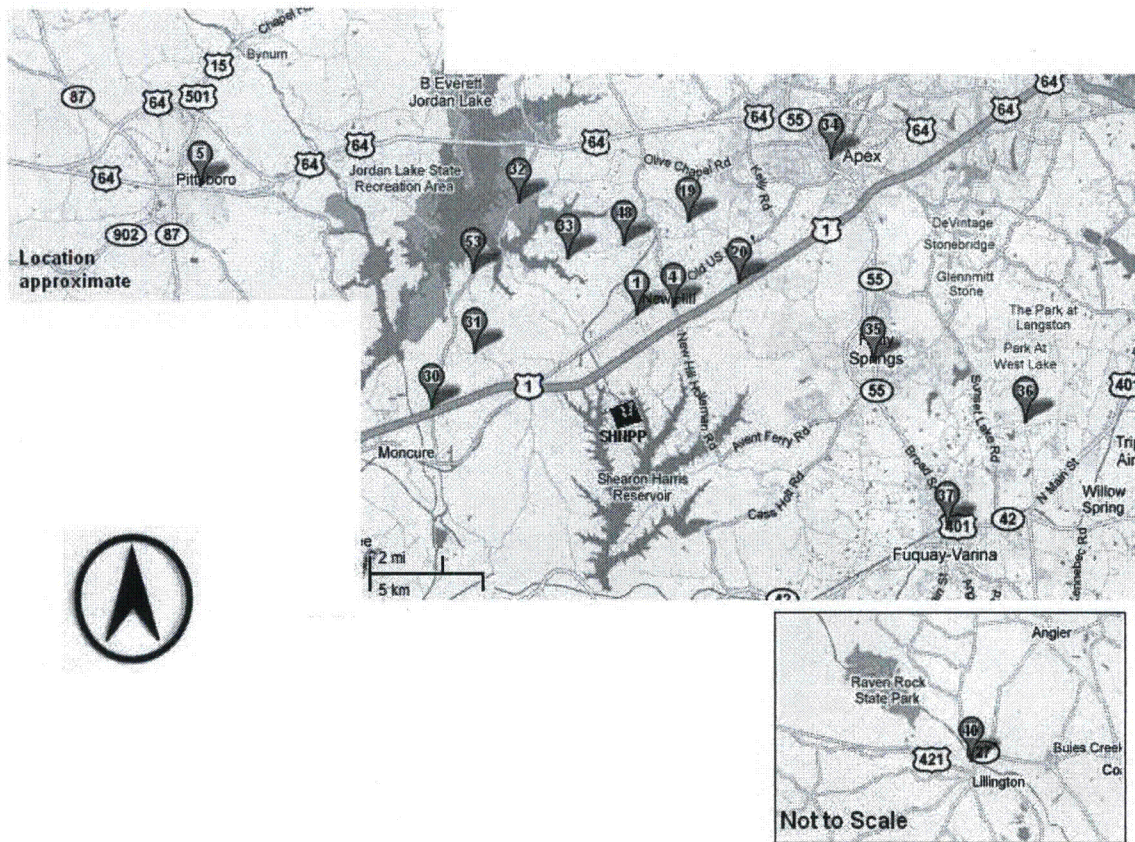


Figure 2b: Radiological Environmental Sampling Locations (Distant from Plant)

Radiological Environmental Sampling Locations

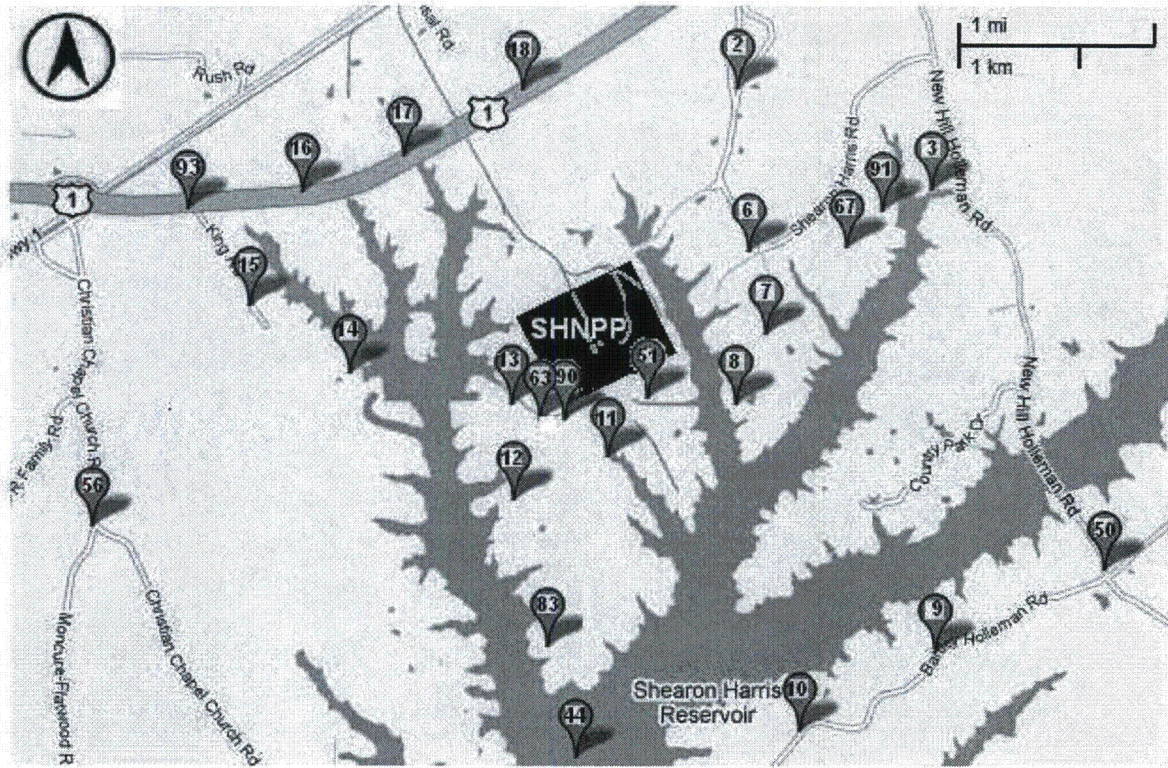


Figure 3a: Radiological Environmental Sampling Locations (Nearest Plant)

Radiological Environmental Sampling Locations

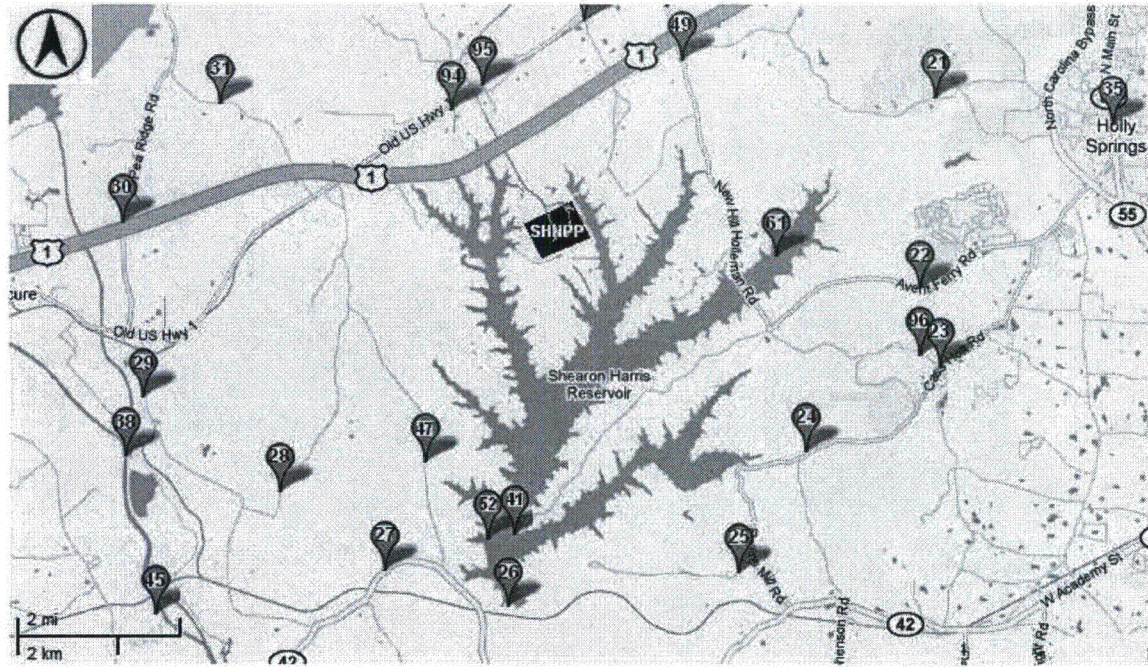


Figure 3b: Radiological Environmental Sampling Locations (Nearest Plant)

Radiological Environmental Sampling Locations



Figure 3c: Radiological Environmental Ground Water (GW) Sampling Locations

Table 2

Radiological Environmental Sampling Locations Legend

STATION NUMBER	SAMPLE TYPE	REFER TO FIGURE	STATION NUMBER	SAMPLE TYPE	REFER TO FIGURE		
1	AP, AC, TL	2b	34	TL	2b		
2	AP, AC, TL	3a	35	TL	2b, 3b		
3	TL	3a	36	TL	2b		
4	AP, AC, TL	2b	37	TL	2b		
5	AP, AC, MK, FC, TL, BL	2b*	38	SW, DW	3b		
6	TL	3a	39	GW/Deleted	n/a		
7	TL	3a	40	SW, DW	2b*		
8	TL	3a	41	SS, AV	3b*		
9	TL	3a	42	DELETED	n/a		
10	TL	3a	43	DELETED	n/a		
11	TL	3a	44	FH	3a*		
12	TL, BL	3a	45	FH	3b		
13	TL	3a	47	AP, AC	3b		
14	TL	3a	48	TL	2b		
15	TL	3a	49	TL	3b		
16	TL/Deleted	3a	50	TL	3a		
17	TL/Deleted	3a	51	DW	3a		
18	TL/Deleted	3a	52	SD	3b		
19	TL	2b	53	TL	2b		
20	TL	2b	54	FC/Deleted	n/a		
21	TL	3b	55	FC/Deleted	n/a		
22	TL	3b	56	TL	3a		
23	TL	3b	57	GW	3c		
24	TL	3b	58	GW/Deleted	n/a		
25	TL	3b	59	GW	3c		
26	AP, AC, AV, SS, SW, TL	3b	60	GW	3c		
27	TL	3b	61	AV	3b*		
28	TL	3b	62	FC/Deleted	n/a		
29	TL	3b	63	AP, AC, TL, BL	3a		
30	TL	2b, 3b	64	FC/Deleted	n/a		
31	TL	2b, 3b	65	BL/Deleted	n/a		
32	TL	2b	66	BL/Deleted	n/a		
33	TL	2b	67	TL	3a		
AC	Air Cartridge	DW	Drinking Water	MK	Milk	TL	TLD
AP	Air Particulate	FC	Food Crop	SD	Bottom Sediment		
AV	Aquatic Vegetation	FH	Fish	SS	Shoreline Sediment		
BL	Broadleaf Veg.	GW	Groundwater	SW	Surface Water		

* Approximate location

Table 3

Harris Nuclear Plant

Radiological Environmental Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Air Cartridge (AC)	1--2.6 miles N 2--1.4 miles NNE 4--3.1 miles NNE 5-- >12 miles WNW--Pittsboro* 26--4.7 miles S 47--3.4 miles SSW 63--0.6 miles SW 90--0.5 miles SSW 91--1.6 miles ENE	As required by dust loading, but at least once per 7 days	(220 m ³)	Iodine
Air Particulate (AP)	1--2.6 miles N 2--1.4 miles NNE 4--3.1 miles NNE 5-- >12 miles WNW--Pittsboro* 26--4.7 miles S 47--3.4 miles SSW 63--0.6 miles SW 90--0.5 miles SSW 91--1.6 miles ENE	As required by dust loading, but at least once per 7 days	(250 m ³)	Gross Beta (Weekly) Composite Gamma (Quarterly)
Fish (FH)	44--Site varies in Harris Lake 45--Site varies in Cape Fear River above Buckhorn Dam*	Semiannual	1 kg (wet) Free Swimmers & Bottom Feeders	Gamma
Drinking Water (DW)	38--6.2 miles WSW* 40--17.2 miles SSE Lillington 51--Water Treatment Building (On Site)	2 Week Composite Monthly Composite	8 liters	I-131, Gamma Tritium Gross Beta
Ground Water (GW)	57--0.4 miles SSW 59--0.5 miles NNE 60--0.5 miles ESE 68--0.2 miles W 69--0.2 miles NNE 70--0.4 miles E 71--0.3 miles SE 72--0.2 miles SE 73--0.2 miles S 74--0.2 miles SSE 75--0.1 miles ESE 76--0.1 miles S 77--0.4 miles S 78--0.5 miles S 79--0.5 miles S 80--0.6 miles S 81--0.6 miles S 82--0.6 miles S 83--1.6 miles SSW	Quarterly	4 liters	Gamma Tritium
Milk (MK)	5-- > 12 miles WNW Manco Dairy* 96--4.6 miles ESE Humbug Farm	Semi-monthly / Monthly	8 liters	I-131 Gamma
Shoreline Sediment (SS)	26--4.6 miles S 41--3.8 miles S	Semiannual	575 grams	Gamma
Surface Water (SW)	26--4.7 miles S 38--6.2 miles WSW * 40--17.2 miles SSE Lillington	Weekly Monthly Composite	8 liters	I-131, Gamma Tritium Gross Beta
Aquatic Vegetation (AV)	26--4.7 miles S 41--3.8 miles S 61--2.5 miles E	Annually	530 grams	Gamma

* Control Stations

Table 3 (Continued)

Harris Nuclear Plant

Radiological Environmental Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Bottom Sediment (SD)	52--3.8 miles S	Semiannual	575 grams	Gamma
Broadleaf Vegetation (BL)	5-- > 12 miles NNW -- Pittsboro* 12--0.9 miles SSW 63--0.6 miles SW	Monthly	350 grams	Gamma
Food Crop (FC) or Food Products (FP) (Not required per ODCM)	5-- > 12 miles NNW -- Pittsboro* 54--1.7 miles NNE -- Wilkins or Morris 55--2.0 miles NNW -- L. L. Goodwin 64--1.8 miles ENE -- Michael	3 different kinds of broadleaf vegetation monthly during growing season	350 grams	Gamma

* Control Stations

Table 3 (Continued)

Harris Nuclear Plant

Radiological Environmental Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Thermoluminescent Dosimetry (TL or TLD)	1 -- 2.6 miles N 2 -- 1.4 miles NNE 3 -- 1.9 miles ENE 4 -- 3.1 miles NNE 5 -- >12 miles WNW -- Pittsboro* 6 -- 0.8 mile ENE 7 -- 0.7 mile E 8 -- 0.6 mile ESE 9 -- 2.2 miles SE 10 -- 2.2 miles SSE 11 -- 0.6 mile S 12 -- 0.9 mile SSW 13 -- 0.7 mile WSW 14 -- 1.5 miles W 15 -- 2.0 miles W 19 -- 5.0 miles NNE 20 -- 4.5 miles NE 21 -- 4.8 miles ENE 22 -- 4.3 miles E 23 -- 4.8 miles ESE 24 -- 4.0 miles SE 25 -- 4.7 miles SSE 26 -- 4.7 miles S 27 -- 4.8 miles SSW 28 -- 4.8 miles SW 29 -- 5.7 miles WSW 30 -- 5.6 miles W 31 -- 4.7 miles WNW 32 -- 6.4 miles NNW 33 -- 4.5 miles NNW 34 -- 8.7 miles NE -- Apex 35 -- 6.9 miles E -- Holly Springs 36 -- 10.9 miles E 37 -- 9.2 miles ESE -- Fuquay-Varina 48 -- 4.5 miles N 49 -- 2.5 miles NE 50 -- 2.6 miles ESE 53 -- 5.8 miles NW 56 -- 3.0 miles WSW 63 -- 0.6 mile SW 67 -- 1.2 miles ENE 93 -- 2.2 miles WNW 94 -- 2.0 miles NW 95 -- 2.0 miles NNW	Quarterly	Not Applicable	TLD Reading

* Control Stations

SUMMARY OF RADIOLOGICAL MONITORING PROGRAM

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2011 for the Harris Nuclear Plant and fulfills the reporting requirements of Technical Specifications 6.9.1.3 and ODCM E.3. The program was conducted in accordance with Operational Requirement 3.12.1 in the Off-Site Dose Calculation Manual (ODCM), and applicable procedures.

Approximately 1491 total samples of 14 different media types from approximately 1290 indicator samples were compared to approximately 201 control samples. Control stations are locations that are unaffected by plant operations. In approximately 99 percent of the indicator samples there was no difference from the activities observed in the corresponding control samples.

Radioactivity in environmental samples attributed to plant operations in 2011 for which there is a potential dose pathway to the public is as follows:

Environmental Media	Radionuclide	Location of w/Highest Annual Mean	Activity and Occurrence	Maximum Individual Dose (mrem/yr)
Surface Water	H-3	Harris Lake	4,360 pCi/L (12/12)	No ingestion pathway. No dose calculated.
Fish	H-3	Harris Lake	See above. Assumes H-3 equilibrium between lake water and fish tissue.	0.010 Total Body

The radiological environmental data indicates that HNP operations in 2011 had no significant impact on the environment or public health and safety.

A statistical summary of all the data for 2011 has been compiled and summarized in Table 4.

The plant-derived activity detected within the scope of the Radiological Environmental Monitoring Program can be seen in the Data Summary Table 4 for 2011. No detectable tritium activity was observed at Lillington, N.C., located 17 miles downstream on the Cape Fear River, which is the first public drinking water (ingestion pathway) location below the Harris Lake discharge spillway. No plant-related gamma activity has been detected in fish collected from Harris Lake or in the water samples from Lillington, N.C. However, non-plant-related activity was detected in air cartridges, air particulates, milk, and drinking and surface water during the Fukushima Dai-ichi nuclear power plant situation caused by the March 11, 2011, earthquake and tsunami.

The Harris Lake Bottom Sediment (SD) and the Aquatic Vegetation (AV) pose no radiological dose to the general public via this pathway due to the fact that the SD is not easily accessible and the AV is not an ingestion pathway. These samples are for long-term trends.

Table 4
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Air Cartridge (pCi/m ³)	I-131 ⁽⁸⁾ 468	6.38E-2	1.29E-1 (22/416) 3.25E-2 – 1.92E-1	From Site 3.4 miles SSW	1.66E-1 (2/52) 1.41E-1 – 1.92E-1	1.08E-1 (3/52) 3.30E-2 – 1.76E-1
Air Particulate (pCi/m ³)	Gross Beta 468	5.8E-3	2.31E-2 (416/416) 6.78E-3 – 4.11E-2	From Site 2.6 miles N	2.40E-2 (52/52) 1.03E-2 – 3.79E-2	2.10E-2 (52/52) 7.82E-3 – 3.67E-2
	Gamma ⁽⁸⁾ 64 I-131	4.72E-2	3.02E-2 (14/57) 1.82E-2 – 4.09E-2	From Site 3.4 miles SSW	3.52E-2 (2/7) 2.94E-2 – 4.09E-2	3.35E-2 (2/7) 2.57E-2 – 4.13E-2
Drinking Water ⁽⁴⁾ (pCi/l)	I-131 ⁽⁸⁾ 78	8.6E-1	8.23E-1 (5/52) 6.18E-1 – 1.45E+0	Lillington Cape Fear River 17.2 miles SSE	8.23E-1 (5/26) 6.18E-1 – 1.45E+0	8.15E-1 (10/26) 4.74E-1 – 1.65E+0
	Gross Beta 36	1.2E+0	4.46E+0 (24/24) 2.42E+0 – 7.27E+0	Lillington Cape Fear River 17.2 miles SSE	5.58E+0 (12/12) 3.76E+0 – 7.27E+0	6.22E+0 (12/12) 4.14E+0 – 7.98E+0
	Gamma 36	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
	Tritium 36	2.50E+2 ⁽⁶⁾	2.65E+3 (12/24) 1.51E+3 – 4.07E+3	Water Treatment Building on Site	2.65E+3 (12/12) 1.51E+3 – 4.07E+3	All less than LLD

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Fish Bottom-Feeders (pCi/g, wet)	Gamma 4	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Fish Free-Swimmers (pCi/g, wet)	Gamma 8	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Food Crop (pCi/g, wet)	Gamma 9 ⁽³⁾	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma 44 ⁽³⁾	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Aquatic Vegetation (pCi/g, wet)	Gamma 3	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Shoreline Sediments (pCi/g, dry)	Gamma 4	Refer to Table 5	All less than LLD	N/A	N/A	No Control

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Ground Water (pCi/l)	Gamma 76	Refer to Table 5	All less than LLD	N/A	N/A	No control
	Tritium 77	2.50E+2 ⁽⁶⁾	7.33E+2 (27/77) 3.78E+2 – 1.59E+4	GW 83 On Site (BD-MW16) along Cooling Tower Blowdown line 1.6 miles SSW	1.24E+4 (5/5) 8.43E+3 – 1.59E+4	No control
Milk (pCi/l)	I-131 ⁽⁸⁾ 33	8.18E-1	All less than LLD	N/A	N/A	1.48E+0 (1/23) Single value
	Gamma 33	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
Bottom Sediment (pCi/g, dry)	Gamma 2	7.08E-2	7.30E-1 (2/2)	Harris Lake Cooling Tower Mixing Zone 3.8 miles S	7.30E-1 (2/2)	No Control
	Co-60		6.42E-1 – 8.17E-1		6.42E-1 – 8.17E-1	
	Cs-137	1.12E-1	2.43E-1 (2/2) 2.42E-1 – 2.45E-1	Harris Lake Cooling Tower Mixing Zone 3.8 miles S	2.43E-1 (2/2) 2.42E-1 – 2.45E-1	No Control

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Surface Water ⁽⁴⁾ (pCi/l)	I-131 ⁽⁸⁾ 57	8.6E-1	8.23E-1 (5/31) 6.18E-1 – 1.45E+0	Lillington Cape Fear River 17.2 miles SSE	8.23E-1 (5/26) 6.18E-1 – 1.45E+0	8.15E-1 (10/26) 4.74E-1 – 1.65E+0
	Gross Beta 36	1.2 E+0	5.67E+0 (24/24) 3.76E+0 - 8.29E+0	Harris Lake Spillway 4.7 miles S	5.76E+0 (12/12) 4.24E+0 - 8.29E+0	6.22E+0 (12/12) 4.14E+0 – 7.98E+0
	Gamma 36	Refer to Table 5	All less than LLD	N/A	N/A	All less than LLD
	Tritium 36	2.50E+2 ⁽⁶⁾	4.36E+3 (12/24) 3.68E+3 – 5.61E+3	Harris Lake Spillway 4.7 miles S	4.36E+3 (12/12) 3.68E+3 – 5.61E+3	All less than LLD
Direct Radiation (mR/qtr) ⁽⁵⁾	TLD 176		1.18E+1 (172/172) 9.00E+0 – 1.54E+1	Apex at Population Center 8.7 miles NE	1.49E+1 (4/4) 1.45E+1 – 1.52E+1	1.46E+1 (4/4) 1.40E+1 – 1.55E+1

FOOTNOTES TO TABLE 4

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. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
3. Missing samples are discussed in Missed Surveillances.
4. Although quarterly composite samples are required, monthly composite samples are used to provide more frequent and sensitive analyses.
5. TLD exposure is reported in milliroentgen (mR) per 90-day period (quarter) beginning in 1995. This is the exposure standard used to compare data to the Nuclear Regulatory Commission (NRC).
6. Tritium Lower Limit of Detection (LLD) is approximately $2.50E+2$ pCi/L for samples that typically demonstrate activity less than the LLD. The LLD was lowered at the request of Carolina Power & Light Company doing business as Progress Energy Carolinas, Inc. in order to maintain comparable LLD and result values with the NC Division of Radiation Protection (NCDRP) laboratory. Other samples that typically exhibit activity greater than the LLD have a tritium Lower Limit of Detection (LLD) of $1.0E+3$ pCi/L.
7. Drinking Water 51 (DW-51) has been included, as of 2009, in the Data Summary even though it does not meet the EPA (Environmental Protection Agency) definition of a public drinking water supply.
8. During 2011, REMP samples obtained from air monitoring (air cartridge and air particulate), cow milk, drinking water, and surface water locations identified the presence

of low levels of radioactive iodine-131. The detectable concentrations were not a result of HNP operations given the following facts:

- The quantity of radioactive iodine in HNP's radiological effluents during 2011 did not increase significantly compared to 2010.
- The REMP sample results detected the presence of Iodine-131 in the specific environmental media samples from March 14, 2011, to April 25, 2011.
- The concentrations detected at the indicator samples were also identified at HNP control samples and throughout the region.

As such, the atypical detection of these radionuclides in both indicator and control samples is credibly attributed to the trans-Pacific transport of airborne releases from the Fukushima Dai-ichi nuclear power plant following the March 11, 2011, Tohoku earthquake and tsunami and is not related to the operation of HNP.

INTERPRETATIONS AND CONCLUSIONS

Air Monitoring

The majority (>94%) of the 468 air cartridge (AC) samples from indicator and control stations had I-131 concentrations less than the typical LLD of $6.38\text{E-}2$ pCi/m³. The air samplers operated for a total of 99.7% availability for the 2011 year. I-131 was detected in air samples for a three week period following the Fukushima Dai-ichi nuclear power plant incident after the March 11, 2011, earthquake and tsunami (CR # 456564) and a six-week period following the Chernobyl incident in April 1986. With these exceptions, no I-131 has been detected in air samples collected from 1987 through 2011, which is the entire operating history of the plant.

For the period of January 1, 2011, to December 31, 2011, the gross beta activity was detectable in all airborne particulate (AP) samples, with acceptable runtime, from the eight indicator locations. The 416 indicator samples had an average concentration of $2.31\text{E-}2$ pCi/m³, a value slightly higher than the preoperational data of $2.00\text{E-}2$ pCi/m³. Similar gross beta activities were observed at the control location in Pittsboro, which had an average concentration of $2.10\text{E-}2$ pCi/m³ in 52 control samples. Figures 4 through 11 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location for the year 2011. AP samples that exhibit an elevated gross beta activity typically have a gamma isotopic analysis done and the results indicate all natural gamma activity. No plant-related gamma activity was observed for any air particulates during 2011, except for the I-131 activity that was detected in 14 weekly indicator AP samples and two control samples (CR # 456564). The natural gamma concentrations are typical of the natural environment and are not attributed to plant operations and the I-131 activity was not attributed to the plant operations, but to the Fukushima Dai-ichi nuclear power plant incident of March 11, 2011. Refer to the Missed Surveillance Section on the AC and AP Missed Surveillances in the 2011 collection year (CR # 460716, 461752, 474250, 482678, 493451, 503002, and 508757).

No plant-related gamma activity was detected in quarterly composite filter samples from either the indicator or control locations. Typical LLDs for air particulates are contained in Table 5.

Drinking Water

Twenty-one drinking water samples collected at the Lillington Municipal water supply, the 26 water treatment building samples at the Harris Plant, and the 16 control samples collected from the Cape Fear River above the Buckhorn Dam contained less than detectable I-131 activity ($< 1.0E+0$ pCi/L) during 2011. Ten control (DW/SW-38) samples and five indicators (DW/SW-40) showed presence of I-131 (see chart). As indicated in the chart, the control composite water sample taken from the Cape Fear River, at the Cape Fear Plant, indicated small concentrations of I-131 ranging from $4.74E-1$ pCi/Liter to $1.65E+0$ pCi/Liter for the stated sample dates. This control location is upstream of the discharge of Harris Lake. For the sample period of the five DW/SW-40 samples indicating I-131 activity, a similar sample was taken from downstream at the Harris Lake Spillway discharge (SW-26) with no detectable I-131 (see chart). Except from April 4, 2011, to April 18, 2011, (CR #461822) water was not going over the spillway at the Harris Lake Dam. This indicates that the I-131 detected at the control location is from a source other than the plant's effluents as discussed in a previous investigation (CR # 189683) and not attributed to plant operations. It has typically been the experience for all the I-131 drinking water samples to contain less than detectable activity ($< 1.0E+0$ pCi/L) for the preoperational and operational period with the exception of 1986 when the fallout from Chernobyl was detected; however, due to the March 11, 2011, earthquake and tsunami in Japan and the Fukushima Dai-ichi nuclear power plant situation, detectable levels of I-131 activity were detected (CR # 458495 and 461822). Note that data from sample collection period December 28, 2010, to January 10, 2011, was reported and discussed in the HNP 2010 Radiological Environmental Operating Report (REOR) (CR # 441977). The water samplers operated for a total of 99.3% availability for the 2011 year (CR # 509827). Refer to the Missed Surveillance Section on the missed drinking/surface water samples (CR # 460716 and 503291) in 2011 collection year.

Composite Period (Sample Date)	DW/SW-38 (Control) I-131 Activity Detected (pCi/Liter)	CR #	DW-SW-40 (Downstream of HNP) I-131 Activity Detected (pCi/Liter)	SW-26 (Harris Lake) (pCi/Liter)
*12/28/10 – 1/10/11 (1/3/11)	5.61E-1	441977	< LLD	N/A
1/24/11 – 2/7/11 (1/31/11)	4.74E-1	446861	< LLD	N/A
2/21/11 – 3/7/11 (2/28/11)	9.78E-1	452339	< LLD	N/A
3/7/11 – 3/21/11 (3/14/11)	< LLD	455366	6.18E-1	< LLD
3/21/11 – 4/4/11 (3/28/11)	1.65E+0	458495	1.45E+0	< LLD
4/4/11 – 4/18/11 (4/11/11)	8.27E-1	461822	6.18E-1	< LLD
4/18/11 – 5/2/11 (4/25/11)	9.84E-1	N/A	< LLD	N/A
5/30/11 – 6/13/11 (6/6/11)	5.59E-1	471854	< LLD	N/A
6/13/11 – 6/27/11 (6/20/11)	5.70E-1	474195	< LLD	N/A
10/31/11 – 11/14/11 (11/7/11)	8.66E-1	499933	< LLD	N/A
11/14/11 – 11/28/11 (11/21/11)	6.85E-1	501781	< LLD	N/A
11/28/11 – 12/12/11 (12/5/11)	< LLD	505270	6.63E-1	< LLD
12/12/11 – 12/27/11 (12/19/11)	< LLD	506652	7.68E-1	< LLD

*Note that data from sample collection period December 28, 2010, to January 10, 2011, was reported and discussed in the HNP 2010 REOR.

The average annual gross beta concentrations at the indicator and control locations were 4.46E+0 pCi/L and 6.22E+0 pCi/L, respectively. The preoperational average was 4.00E+0 pCi/L. These concentrations are attributed to the natural environment and are not attributed to plant operations. Figure 12 provides graphic representation of the drinking water gross beta activity during 2011 for Location 40 (Lillington) and Location 38 (control at Cape Fear).

Analyses for gamma-emitting radionuclides from plant operations indicated all concentrations were less than the lower limit of detection for drinking water. Table 5 contains typical LLD values for gamma-emitting radionuclides in drinking water.

Tritium concentrations in the Lillington Municipal Water Supply samples (DW/SW-40) were less than the lower limit of detection (approximately 2.50E+2 pCi/L) (see Footnotes to Table 4, Footnote 6). The annual average tritium concentration for the Water Treatment Building sample

on site (DW-51) was 2.65E+3 pCi/L with a minimum and maximum value of 1.51E+3 pCi/L and 4.07E+3 pCi/L, respectively.

Fish

Analyses for gamma-emitting radionuclides in four samples of bottom-feeding species (catfish) and in eight samples of free-swimming species (sunfish and largemouth bass) from the indicator and control locations revealed no detectable activity for 2011, other than naturally occurring nuclides. This is consistent with the data for 1989-2010. During the Chernobyl period, Cs-134 and Cs-137 were detected in both control and indicator samples.

Fish are assumed to be in equilibrium with the tritium concentration in the lake. The total body/organ dose to the maximum exposed individual due to tritium was calculated using Regulatory Guide 1.109, Rev.1, October 1977, Equation A-1, to be 0.010 mrem/year.

Equation A-1
 $R_{a_{ipj}} = C_{ip} U_{ap} D_{a_{ipj}}$

where as:

- $R_{a_{ipj}}$ = total body dose in mrem/yr of H-3
- C_{ip} = concentration of nuclide (H-3) in pCi/kg = pCi/L
- U_{ap} = maximum exposed individual's consumption (Reg. Guide 1.109 Table E-5)
- $D_{a_{ipj}}$ = ingestion dose factor for total body/organ of individual in U_{ap} in mrem/pCi (Reg. Guide 1.109 Table E-11, E-12, or E-13)

The Total Body/Organ dose is as follows:

	Child	Teenager	Adult
Consumption of fish kg/yr	6.9	16	21
Dose (Total Body/Organ) mrem/yr	0.006	0.007	0.010

The total body dose and organ dose, due to tritium in the fish, (ingestion dose factor - Reg. Guide 1.109 Table E-11, E-12, and E-13) for the maximum exposed individuals consuming 6.9 kg fish/yr. for a child, 16 kg fish/yr. for a teenager, and 21 kg fish/yr. for an adult are 0.006, 0.007, and 0.010 mrem/year respectively.

Milk/Broadleaf Vegetation

During 2011, I-131 activity ($1.48\text{E}+0$ pCi/Liter) was detected in one semi-monthly control (MK-5) milk sample collected from the Manco Dairy on April 4, 2011. Gamma analysis of the milk sample only detected natural occurring nuclides. The identification of the I-131 activity is indicative of the Fukushima Dai-ichi nuclear power plant situation caused by the March 11, 2011, earthquake and tsunami (CR #458543). This control milk location is located greater than 12 miles WNW from the plant, thus in an area to be out of the influence of the plant. I-131 was not identified in any other control or indicator milk samples in 2011 nor in all past years with the exception of the Chernobyl period. Gamma analyses revealed no detectable radioactivity from plant operations. Natural gamma activity is consistently identified in each control milk sample. Potassium-40, is a natural occurring nuclide in any organic material. The K-40 concentrations in the milk control samples range from $1.55\text{E}+3$ pCi/L to $2.12\text{E}+3$ pCi/L. Other natural occurring nuclides are identified in some of the control milk samples. In mid-September of 2010, the Humbug Farm (Goat milk indicator MK-96 – located in the ESE sector) was added to the HNP Environmental Monitoring Program. This is a small local goat farm which provides samples of goat milk during the spring and summer months. The dairy's Nubian and Saanen goats only produce milk about six months per year – from March to September. Goat milk samples (MK-96) were collected May through September of 2011 (CR # 492919). The K-40 concentrations in the goat milk indicator samples range from $1.43\text{E}+3$ pCi/Liter to $2.26\text{E}+3$ pCi/Liter. Other natural occurring nuclides are identified in the goat milk.

In May of 1997, the Maple Knoll Dairy (indicator MK-42 - located in the SSE sector) ceased operations. In lieu of the monthly milk samples, per HNP ODCM Table 3.12-1, broadleaf vegetation samples were collected in both the South (S) and SSW sectors.

Broadleaf sampling is conducted since only one milk animal location is available within a radius of approximately five miles of the plant and is used to simulate dose to an individual via the milk pathway for compliance purposes. Broadleaf vegetation sampling is accomplished by collecting

monthly, three different species of samples, when available, at two locations at the site boundary (two indicator locations of the highest predicted annual average ground level D/Q) and at the control location (BL-5 in the NNW sector at greater than 12 miles). The gamma analyses on the broadleaf vegetation did not detect any plant-related radioactivity in any of the broadleaf vegetation (Fig Leaf, Maple, Persimmons, Sweetgum, and Wax Myrtle) in 2011. Refer to the Missed Surveillance Section for the missed (unavailable) surveillances (NCR # 442978, 449239, 453561, 495377, 500915, and 504482).

Surface Water

Surface water samples were collected (weekly) and analyzed (bi-weekly) for I-131. Water samples collected contained less than detectable I-131 activity ($< 1.0E+0$ pCi/L) during 2011, except for ten control (DW/SW-38) samples (see chart in Drinking Water Section). As indicated in the chart, the control composite water sample taken from the Cape Fear River, at the Cape Fear Plant, indicated small concentrations of I-131 ranging from $4.74E-1$ pCi/Liter to $1.65E+0$ pCi/Liter for the stated sample dates. This control location is upstream of the discharge of Harris Lake. For the sample period of the five DW/SW-40 samples indicating I-131 activity, a similar sample was taken from downstream at the Harris Lake Spillway discharge (SW-26) with no detectable I-131 (see chart). Except from April 4, 2011, to April 18, 2011, (CR #461822) water was not going over the spillway at the Harris Lake Dam. This indicates that the I-131 detected at the control location is from a source other than the plant's effluents as discussed in a previous investigation (CR # 189683) and not attributed to plant operations. It has typically been the experience for all the I-131 surface water samples to contain less than detectable activity ($< 1.0E+0$ pCi/L) for the preoperational and operational period with the exception of 1986 when the fallout from Chernobyl was detected; however, due to the March 11, 2011, earthquake and tsunami in Japan and the Fukushima Dai-ichi nuclear power plant situation, detectable levels of I-131 activity were detected (CR # 458495 and 461822). Note that data from sample collection period December 28, 2010, to January 10, 2011, was reported and discussed in the HNP 2010 Radiological Environmental Operating Report (REOR) (CR # 441977). The water samplers operated for a total of 99.3% availability for the 2011 year (CR # 509827). Refer to the Missed Surveillance Section on the missed drinking/surface water samples (CR # 460716 and 503291) in 2011 collection year.

Average gross beta concentrations at the indicator and control locations were 5.67E+0 pCi/L and 6.22E+0 pCi/L, respectively, in 2011, indicating no adverse influence from plant operations (See Figure 13).

Surface water samples were analyzed for gamma and tritium radioactivity. All concentrations of man-made gamma-emitters were less than their respective lower limits of detection (see Table 5).

The annual average tritium concentration in Harris Lake at the Spillway was 4.36E+3 pCi/L with minimum and maximum values of 3.68E+3 pCi/L and 5.61E+3 pCi/L, respectively (see Figure 14). The average Harris Lake Spillway tritium concentration showed an increase in tritium compared to the annual average of 3.83E+3 pCi/L in 2010. This concentration remains well below regulatory limits. The tritium liquid release program is optimized by releasing liquid effluents during periods of high rainfall to minimize the impact of the tritium concentration in the lake. The increase in average tritium concentration from 2010 to 2011 is due to the tritium release program and the low rainfall in 2011.

Ground Water

Ground water samples are collected on site at HNP for gamma and tritium analysis. The measured concentrations of the gamma analyses indicated concentrations below their required Lower Limits of Detection (LLD) as specified in the Harris Plant ODCM (docket No. STN-50-400) in Table 4.12-1 titled "Detection Capabilities For Environmental Sample Analysis Lower Limit of Detection (LLD)" for the year 2011.

The measured ground water tritium concentrations were below the required HNP ODCM Table 4.12-1 LLD for environmental samples, except for GW-83. The tritium limits are 2000 picocuries per Liter (pCi/L) for a drinking water pathway and 3000 pCi/L if no drinking water pathway exists. HNP administratively established a ground water tritium analysis LLD of approximately 250 pCi/L, which is well below the requirements specified in the HNP ODCM.

The ground water tritium analysis shows the presence of tritium, ranging from 378 pCi/Liter to 1.59E+4 pCi/Liter in 2011; however, the results are well below the EPA reportable drinking water limit (20,000 pCi/Liter) and non-drinking water limit (30,000 pCi/Liter). The ground

water wells, located on site at HNP, are all abandoned wells and are not a water supply for drinking or irrigation. Therefore, there is no radiological dose via this pathway.

Shoreline Sediment

Shoreline sediment samples were collected semiannually in 2011 from (1) opposite the discharge structure and (2) near the main dam. Gamma analyses of the shoreline sediments detected all natural activity in the samples collected during 2011. No long-term trends are readily observed in these samples.

Bottom Sediment

The 2011 data shows Cobalt (Co)-60 (6.42E-1 pCi/gm dry to 8.17E-1 pCi/gm dry) and Cesium (Cs)-137 (2.42E-1 pCi/gm dry to 2.45E-1 pCi/gm dry) activity in the indicator sample, which is sampled semiannually. The bottom sediment sample from Harris Lake poses no radiological dose to the general public via this pathway due to the fact that it is not easily accessible (i.e. bottom sediment is approximately forty to sixty feet under water). These samples are for long-term trends for liquid effluents.

Food Crops

Food crops are no longer required to be collected as of July 27, 2006, Revision 18 of the HNP ODCM; therefore, any food crops collected is above and beyond requirements, but will appear in the current year's data report (CR # 141151). Sampling of gardens goes above and beyond regulatory guidance since none of the gardens identified during the annual Land-Use Census are irrigated by water in which liquid plant wastes have been discharged. Therefore, the absence of food crops from these locations does not constitute a failure to monitor a pathway.

In addition to milk sampling (or broadleaf vegetation sampling), a food product sampling program was maintained. Various crops were collected during the growing season(s), which continued year round. The species selected were primarily broad-leaf vegetables which are most sensitive to direct fallout of airborne radioactive particulates. Crops sampled in 2011 included

collards, cucumbers, mustard greens, squash, and tomatoes. Gamma analyses of the food crops detected no plant-related activity in five (5) samples from indicator locations and four (4) samples from control locations collected in 2011.

Aquatic Vegetation

The 2011 data shows that there were two aquatic vegetation indicator samples and one control sample collected from Harris Lake, which are sampled annually. The aquatic vegetation samples from Harris Lake pose no radiological dose to the general public by the ingestion pathway. Gamma analyses of the aquatic vegetation detected no plant-related activity in the two indicator samples or the control sample collected during 2011. No long-term trends are readily observed in these samples.

External Radiation Exposure

Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. The average quarterly exposure at the indicator and control locations was 11.8 mR/std. qtr. and 14.6 mR/std. qtr. respectively. The highest indicator location was 8.7 miles NE of the plant (Apex at Population Center) and its average was 14.9 mR/std. qtr. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations. There were no missing TLDs during the HNP 2011 collection period.

Comparison of the quarterly TLD exposure within approximately 2 miles (inner ring) of the plant with that at approximately 5 miles (outer ring) is presented in Figure 15. These data illustrate that the quarterly inner ring TLD exposures for first and fourth quarters of 2011 are slightly less than the quarterly outer ring TLD exposures (differences range from 0.18 mR/std. qtr. to 0.25 mR/std. qtr.). The data illustrated in Figure 15 shows that the quarterly inner ring TLD exposures for second and third quarters of 2011 are slightly more than the quarterly outer ring TLD exposures (differences range from 0.02 mR/std. qtr. to 0.24 mR/std. qtr.).

MISSED SURVEILLANCES

Air Cartridge and Air Particulates

Any REMP weekly air samples (Air Cartridge – AC or Air Particulate – AP) that exceed 30 hours of down time in a surveillance period will be reported as a “missed surveillance”. However, this sample will still be counted and the data reported; whereas a “missed sample” will have no data reported. There were no missed samples in 2011 from the established air samplers. The air samplers operated for a total of 99.7% availability in 2011.

Missed Samples:

- None in 2011 from established air samplers

Missed Surveillances:

- APAC-26; April 16, 2011 – Down time of 71 hours due to tornado damage in the HNP REMP sampling area (CR # 460716).
- APAC-4; April 23, 2011 – Down time of 38.5 hours due to a tripped GFCI. Circuit was reset and air sampler was returned to service (CR # 461752).
- APAC-63; June 28, 2011 – Down time of 40 hours due to severe weather. A fuse was replaced by Line and Service Personnel and air sampler was returned to service (CR # 474250).

Other down times were identified that did not meet the definition of “missed surveillances”. Additional information of these events can be found in the corrective action program (CR # 460716, 482678, 493451, 503002, and 508757).

Food Crops

Food crops are no longer required to be collected as of July 27, 2006, Revision 18 of the HNP ODCM; therefore, any food crops collected is above and beyond requirements, but will appear in the current year’s data report (CR # 141151). Sampling of gardens goes above and beyond regulatory guidance since none of the gardens identified during the annual Land-Use Census are

irrigated by water in which liquid plant wastes have been discharged. Therefore, the absence of food crops from these locations does not constitute a failure to monitor a pathway.

The farmers and individuals at each garden location sampled during 2011 did not plant or produce three (3) different kinds of food crops in 2011. This was mostly due to seasonal unavailability, lack of sufficient quantity planted or lack of a variety of crops planted, and crops being too small to harvest at the time of collection.

Drinking / Surface Water

SW-26 (April 16 – April 19, 2011) had 71 hours of missed surveillances due to tornado damage in the HNP REMP sampling area (CR # 460716).

DW/SW-40 (November 28 – December 5, 2011) had 106 hours of missed surveillances due to the sampler malfunction and premature sampler shutdown. This was caused by excessive run off upstream into the Cape Fear River. Sampler was reprogrammed and verified to be working properly (CR # 503291).

Milk / Broadleaf Vegetation

If milk sampling cannot be performed, then three (3) different kinds of broadleaf vegetation nearest each of two different offsite locations of highest predicted annual average ground level D/Q shall be sampled. The new indicator milk sample that was introduced to the HNP Environmental Monitoring Program in mid-September of 2010 (Humbug Farm – goat milk) was not available from January through April of 2011 and October through December of 2011 (CR # 492919). Broadleaf vegetation samples were not available for sampling due to seasonal unavailability during January, February, March, October, November, and December of 2011 (CR # 442978, 449239, 453561, 495377, 500915, and 504482). During May of 2011; one broadleaf vegetation location only had two different kinds of vegetation collected.

ANALYTICAL PROCEDURES

Gross Beta

Gross beta radioactivity measurements are made utilizing a Tennelec Low-Background Alpha/Beta Counting System. The LLD for air particulates is approximately $5.8E-3$ pCi/m³ for HNP samples. Air particulate samples are mounted in 2-inch stainless steel planchets and counted directly.

Gross beta activity in drinking and surface waters is determined by evaporating 1 liter of the sample and counting a planchet on a Tennelec Low-Background Alpha/Beta Counting System for 50 minutes. Typical LLD for gross beta is $1.2E+0$ pCi/L.

Tritium

Liquid samples requiring tritium analysis are treated with a small amount of sodium hydroxide, potassium permanganate crystals, and then distilled. Five milliliters of the distillate are mixed with thirteen milliliters of liquid scintillation cocktail and counted in a liquid scintillation counter. Samples are counted for 315 minutes with a LLD of approximately $2.50E+2$ pCi/L.

Iodine-131

Iodine-131 airborne concentrations are analyzed by the intrinsic germanium (Ge) spectrometry systems. The cartridges are placed on the detector, and each charcoal cartridge is counted individually with a worst case LLD of $6.38E-2$ pCi/m³.

Iodine-131 in milk and drinking water is determined by an instrumental method. Analysis involves passing 4 liters of sample over an anion exchange resin and direct gamma analysis of the resin with an intrinsic Ge detector. The LLD using the Ge detector is approximately $1.0E+0$ pCi/L using 25,000-second and 40,000-second count times respectively. Refer to Table 4 or Table 5 for Typical/Worst Case LLDs.

Gamma Spectrometry

Gamma samples are analyzed by the intrinsic germanium detectors with thin aluminum windows housed in steel and lead shields. The analyzer system is the Canberra APEX Gamma Spectroscopy System. Table 5 summarizes LLD values derived from using the instrument with the worst sensitivity, typical sample volumes, typical count times, typical worst background count, and worst case on decay (from collection to counting).

Air particulate filter quarterly composites are placed in a Petri dish and analyzed directly for 1,500 seconds.

Liquid samples, milk and water are transferred to Marinelli beakers and analyzed by gamma counting. One-liter ground water samples are gamma scanned directly in a 1-liter Marinelli beaker for 16,000 seconds and the SW/DW samples for 73,000 seconds. One-liter milk samples are analyzed in a 1-liter Marinelli beaker for 12,600 seconds.

Shoreline and bottom sediments are dried, weighed, and then analyzed in a 1-liter Marinelli beaker for 840 seconds (> 1000 grams, dry) or 1,380 seconds (≤ 1000 grams, dry).

Aquatic vegetation and broadleaf vegetation samples are weighed as sampled and analyzed in a Marinelli beaker for 7,500 seconds. If any food crop samples are collected they will be handled like the aquatic and broadleaf vegetation samples.

Fish samples are prepared by stuffing small raw, edible portions of the fish in a 1-liter Marinelli beaker for gamma analysis using a count time of 1,500 seconds.

Thermoluminescent Dosimetry

Each area monitoring station includes a TLD packet which is a polyethylene bag containing three calcium sulfate phosphors contained in a Panasonic UD-814 badge. The TLD is light tight and the bag is weather-resistant.

Dosimeters are machine annealed before field placement. Following exposure in the field, each dosimeter is read utilizing a Panasonic TLD reader. This instrument integrates the light photons emitted from traps as the dosimeter is heated. Calibration is calculated using dosimeters

irradiated to known doses for each set of dosimeters measured. Prior to the measurement of each dosimeter, the instrument is checked through use of an internal constant light source as a secondary standard.

The exposure reported is corrected for exposure received in transit and during storage through the use of control dosimeters.

Interlaboratory Comparison Program

The Radiochemistry Laboratory at the Harris Energy & Environmental Center in New Hill, North Carolina, provides radioanalytical services for Carolina Power & Light Company's, doing business as Progress Energy Carolinas, Inc., nuclear plant radiological environmental surveillance programs. In fulfillment of ODCM Operational Requirements, the laboratory is a participant in the Eckert & Ziegler Analytics Environmental Cross-Check Program and uses its performance in this program as a major determinant of the accuracy and precision of its analytical results.

During 2011, 82 results were reported for the year on 17 samples representing seven major environmental media (i.e., water, milk, air filters, air filters composite, soil, air cartridges, and simulated vegetation). Data on the known activities, the uncertainties, and the ratios to the known for the 82 results have been received from Eckert & Ziegler Analytics. The results were compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental monitoring (see below results).

All of the 82 results were within the acceptance criteria. During 2011, there were 401 individual measurements of which 398 (99.3%) were passing. 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 (CR # 485925). Complete documentation of any evaluation will be available and provided to the NRC upon request.

Also during 2011, HNP participated in the Eckert & Ziegler Analytics Cross-Check Program and reported one tritium result that was within acceptable limits. This is being noted since HNP analyzed a few environmental tritium samples in 2011.

Environmental Cross Check Performance Summary for 2011

Sample	Nuclide	Quarter	Units	HEEC Value	EZA Value	HEEC/EZA Ratio	Evaluation
Gross beta water 1 st Qtr E7457-668 3 rd Qtr E8110-668 4 th Qtr E8237-668	Gross beta	1 st	pCi/L	260	247	1.05	Agreement
		3 rd	pCi/L	257	249	1.03	Agreement
		4 th	pCi/L	259	252	1.03	Agreement
Gross beta filter 2 nd Qtr E7850-668 4 th Qtr E8236-668	Gross beta	2 nd	pCi	80.8	74.6	1.08	Agreement
		4 th	pCi	66.2	65.5	1.01	Agreement
Tritium in water 1 st Qtr E7456-668 4 th Qtr E8235-668	H-3	1 st	pCi/L	4250	4530	0.94	Agreement
		4 th	pCi/L	10600	10900	0.97	Agreement
Iodine Cartridge 2 nd Qtr E7849-668 4 th Qtr E8238-668	I-131	2 nd	pCi	86.0	85.9	1.00	Agreement
		4 th	pCi	91.8	89.6	1.03	Agreement
Gamma Milk E7458-668	I-131	1 st	pCi/L	97.0	96.9	1.00	Agreement
	Cr-51	1 st	pCi/L	309	298	1.04	Agreement
	Cs-134	1 st	pCi/L	124	130	0.95	Agreement
	Cs-137	1 st	pCi/L	224	205	1.09	Agreement
	Co-58	1 st	pCi/L	116	113	1.02	Agreement
	Mn-54	1 st	pCi/L	286	266	1.07	Agreement
	Fe-59	1 st	pCi/L	193	175	1.11	Agreement
	Zn-65	1 st	pCi/L	281	261	1.08	Agreement
	Co-60	1 st	pCi/L	179	172	1.04	Agreement
Gamma Soil E7459-668	Cr-51	1 st	pCi/g	0.526	0.489	1.08	Agreement
	Cs-134	1 st	pCi/g	0.223	0.214	1.04	Agreement
	Cs-137	1 st	pCi/g	0.480	0.425	1.13	Agreement
	Co-58	1 st	pCi/g	0.192	0.186	1.03	Agreement
	Mn-54	1 st	pCi/g	0.475	0.436	1.09	Agreement
	Fe-59	1 st	pCi/g	0.325	0.286	1.14	Agreement
	Zn-65	1 st	pCi/g	0.472	0.428	1.10	Agreement
	Co-60	1 st	pCi/g	0.298	0.281	1.06	Agreement
Gamma Vegetation E8111-668	Ce-141	3 rd	pCi/g	0.156	0.169	0.92	Agreement
	Cr-51	3 rd	pCi/g	0.546	0.573	0.95	Agreement
	Cs-134	3 rd	pCi/g	0.289	0.325	0.89	Agreement
	Cs-137	3 rd	pCi/g	0.280	0.288	0.97	Agreement
	Co-58	3 rd	pCi/g	0.236	0.247	0.96	Agreement
	Mn-54	3 rd	pCi/g	0.378	0.382	0.99	Agreement
	Fe-59	3 rd	pCi/g	0.145	0.139	1.04	Agreement
	Zn-65	3 rd	pCi/g	0.456	0.457	1.00	Agreement
Co-60	3 rd	pCi/g	0.383	0.397	0.96	Agreement	

Environmental Cross Check Performance Summary for 2011

Sample	Nuclide	Quarter	Units	HEEC Value	EZA Value	HEEC/EZA Ratio	Evaluation
Gamma Filter 2 nd Qtr E7847-668 3 rd Qtr E8112-668	Ce-141	2 nd	pCi	52.0	52.3	0.99	Agreement
		3 rd	pCi	66.0	69.0	0.96	Agreement
	Cr-51	2 nd	pCi	137	135	1.02	Agreement
		3 rd	pCi	226	234	0.96	Agreement
	Cs-134	2 nd	pCi	132	124	1.06	Agreement
		3 rd	pCi	136	133	1.02	Agreement
	Cs-137	2 nd	pCi	99.0	90.2	1.10	Agreement
		3 rd	pCi	118	118	1.00	Agreement
	Co-58	2 nd	pCi	101	99.1	1.02	Agreement
		3 rd	pCi	97.0	101	0.96	Agreement
	Mn-54	2 nd	pCi	98.0	90.1	1.09	Agreement
		3 rd	pCi	165	156	1.06	Agreement
	Fe-59	2 nd	pCi	98.0	80.6	1.22	Agreement
		3 rd	pCi	67.0	56.8	1.18	Agreement
	Zn-65	2 nd	pCi	203	170	1.19	Agreement
		3 rd	pCi	209	187	1.12	Agreement
Co-60	2 nd	pCi	135	127	1.06	Agreement	
	3 rd	pCi	158	163	0.97	Agreement	
Gamma 13 Filter Composite E7848-668	Ce-141	2 nd	pCi	62.0	64.7	0.96	Agreement
	Cr-51	2 nd	pCi	166	167	1.00	Agreement
	Cs-134	2 nd	pCi	159	154	1.04	Agreement
	Cs-137	2 nd	pCi	117	112	1.05	Agreement
	Co-58	2 nd	pCi	122	123	0.99	Agreement
	Mn-54	2 nd	pCi	115	112	1.03	Agreement
	Fe-59	2 nd	pCi	113	99.8	1.13	Agreement
	Zn-65	2 nd	pCi	237	211	1.12	Agreement
Co-60	2 nd	pCi	161	157	1.02	Agreement	

Environmental Cross Check Performance Summary for 2011

Sample	Nuclide	Quarter	Units	HEEC Value	EZA Value	HEEC/EZA Ratio	Evaluation
Gamma Water 2 nd Qtr E7846-668 3 rd Qtr E8109-668	I-131	2 nd	pCi/L	102	101	1.01	Agreement
		3 rd	pCi/L	82.0	80.1	1.02	Agreement
	Ce-141	2 nd	pCi/L	94	93.5	1.01	Agreement
		3 rd	pCi/L	93.0	91.5	1.02	Agreement
	Cr-51	2 nd	pCi/L	251	241	1.04	Agreement
		3 rd	pCi/L	329	310	1.06	Agreement
	Cs-134	2 nd	pCi/L	210	222	0.95	Agreement
		3 rd	pCi/L	166	176	0.94	Agreement
	Cs-137	2 nd	pCi/L	174	161	1.08	Agreement
		3 rd	pCi/L	166	156	1.06	Agreement
	Co-58	2 nd	pCi/L	179	177	1.01	Agreement
		3 rd	pCi/L	140	134	1.05	Agreement
	Mn-54	2 nd	pCi/L	169	161	1.05	Agreement
		3 rd	pCi/L	220	207	1.06	Agreement
	Fe-59	2 nd	pCi/L	159	144	1.10	Agreement
		3 rd	pCi/L	87.0	75.2	1.16	Agreement
	Zn-65	2 nd	pCi/L	334	305	1.10	Agreement
		3 rd	pCi/L	270	247	1.09	Agreement
Co-60	2 nd	pCi/L	239	228	1.05	Agreement	
	3 rd	pCi/L	218	215	1.01	Agreement	

HNP Cross Check Program 2011 Tritium Results

Sample	Nuclide	Quarter	Units	HNP Value	EZA Value	HNP/EZA Ratio	Evaluation
Tritium in water 1 st Qtr A25594-72	H-3	1 st	μCi	1.01E-3	9.89E-4	1.02	Agreement

Lower Limits of Detection

All samples analyzed met the LLD required by the ODCM.

Table 5
Typical/Worst Case Lower Limits of Detection (A Priori)
Gamma Spectrometry

Drinking Water/Surface Water Samples	
Isotope	LLD (pCi/L)
Mn-54	3
Co-58	3
Fe-59	6
Co-60	3
Zn-65	6
Zr-Nb-95	6 / 4
I-131	14
Cs-134	3
Cs-137	3
Ba-La-140	24 / 8
*I-131 (Separation Procedure)	*0.86
Air Particulates (Quarterly Composite)	
Isotope	LLD (pCi/m³)
Cs-134	5.69E-3
Cs-137	3.90E-3
I-131	5.10E-2
Milk	
Isotope	LLD (pCi/L)
Cs-134	8
Cs-137	7
Ba-La-140	26 / 9
*I-131 (Separation Procedure)	*0.82
Sediment	
Isotope	LLD (pCi/kg dry)
Cs-134	112
Cs-137	112
Fish	
Isotope	LLD (pCi/kg wet)
Mn-54	42
Co-58	52
Fe-59	108
Co-60	55
Zn-65	98
Cs-134	54
Cs-137	45

* Instrumental analysis of resin concentrates of samples.

Table 5 (Cont.)
Typical/Worst Case Lower Limits of Detection (A Priori)
Gamma Spectrometry

Broadleaf Vegetation and Food Products	
Isotope	LLD (pCi/kg wet)
I-131	39
Cs-134	32
Cs-137	28
Aquatic Vegetation	
Isotope	LLD (pCi/kg wet)
I-131	33
Cs-134	20
Cs-137	19
Ground Water	
Isotope	LLD (pCi/L)
Mn-54	7
Co-58	8
Fe-59	15
Co-60	8
Zn-65	16
Zr-Nb-95	13 / 14
I-131	14.8
Cs-134	9
Cs-137	7
Ba-La-140	38 / 15
Air Cartridge	
Isotope	LLD (pCi/m³)
I-131	6.38E-2

LAND-USE CENSUS

PURPOSE OF THE LAND-USE CENSUS

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

The pathways evaluated are:

- Ingestion Pathway - Results from eating food crops that may have radioactive materials deposited on them, incorporated radioactive materials from the soil or atmosphere. Another pathway is through drinking milk or eating goat cheese from local cows or goats, if these are present and if not then broadleaf vegetation is collected in lieu of milk. The grass used to feed these animals may have incorporated or had deposited on it radioactive materials that can be transferred to the milk.
- Direct Radiation Exposure Pathway- Results from deposition of radioactive materials on the ground or from passage of these radioactive materials in the air.
- Inhalation Pathway- Results from breathing radioactive materials transported in the air.

Methodology

The following must be identified within the five (5) mile radius of the plant for each of the sixteen meteorological sectors (compass direction the winds may blow, for example NNE [North North East]):

- The nearest resident
- The nearest garden of greater than 500 square feet, producing broadleaf vegetables
- The nearest milk animal

The primary methods are visual inspection from the roadside within the five (5) mile radius and personal contact with the individuals.

2011 Land-Use Census Results

The 2010 and 2011 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 6.

The nearest resident in each sector remained the same from 2010 to 2011. No gardens were located within 5 miles of the plant for the NNE, NE, ENE, E, SE, SSE, S, SW, W, WNW, and NW sectors. The gardens located in 2011 were the same as the gardens located in 2010, except for where the 2011 survey did not locate any gardens in the NNE, E, SW, and W sectors and the garden located in the SSW sector at 3.8 miles in 2010 no longer is available; therefore, another garden was located at 4.3 miles in the SSW sector during the 2011 survey. All meat animals located in 2011 were the same as 2010. No meat animals were found in the NNE, NE, E, SSE, S, SSW, W, and WNW sectors in 2011. Milk goats were found in the ESE sector and have been incorporated into the HNP environmental monitoring sample program as of September 20, 2010. Harris Lake County Park was included in the 2011 survey, even though there are not yet permanent residents on site. There are plans in the future for rangers and a campground. Although technically just outside the 5-mile radius, the resident in the S sector has again been included in the data because of the historical prevailing winds.

Table 6

**Land-Use Census Comparison (2010-2011)
Nearest Pathway (Miles)**

SECTOR	RESIDENT		GARDEN		MEAT ANIMAL		MILK ANIMAL	
	2011	2010	2011	2010	2011	2010	2011	2010
N	2.2	2.2	2.2	2.2	2.2	2.2	---	---
NNE	1.9	1.9	---*	1.9	---	---	---	---
NE	2.3	2.3	---	---	---	---	---	---
ENE	1.6	1.6	---	---	1.8	1.8	---	---
E	1.7	1.7	---*	1.7	---	---	---	---
ESE	2.6	2.6	4.6	4.6	4.6	4.6	4.7	4.7
SE	2.6	2.6	---	---	2.6	2.6	---	---
SSE	4.2	4.2	---	---	---	---	---	---
S	5.3	5.3	---	---	---	---	---	---
SSW	3.8	3.8	4.3*	3.8	---	---	---	---
SW	2.9	2.9	---*	2.9	2.9	2.9	---	---
WSW	4.5	4.5	4.5	4.5	4.5	4.5	---	---
W	3.0	3.0	---*	3.0	---	---	---	---
WNW	2.5	2.5	---	---	---	---	---	---
NW	2.4	2.4	---	---	2.4	2.4	---	---
NNW	1.6	1.6	2.0	2.0	2.0	2.0	---	---

* Represents a change from the previous year.

Sector and distance determined by Global Positioning System.

Figure 4 HNP from 1/1/2011 To 12/31/2011
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

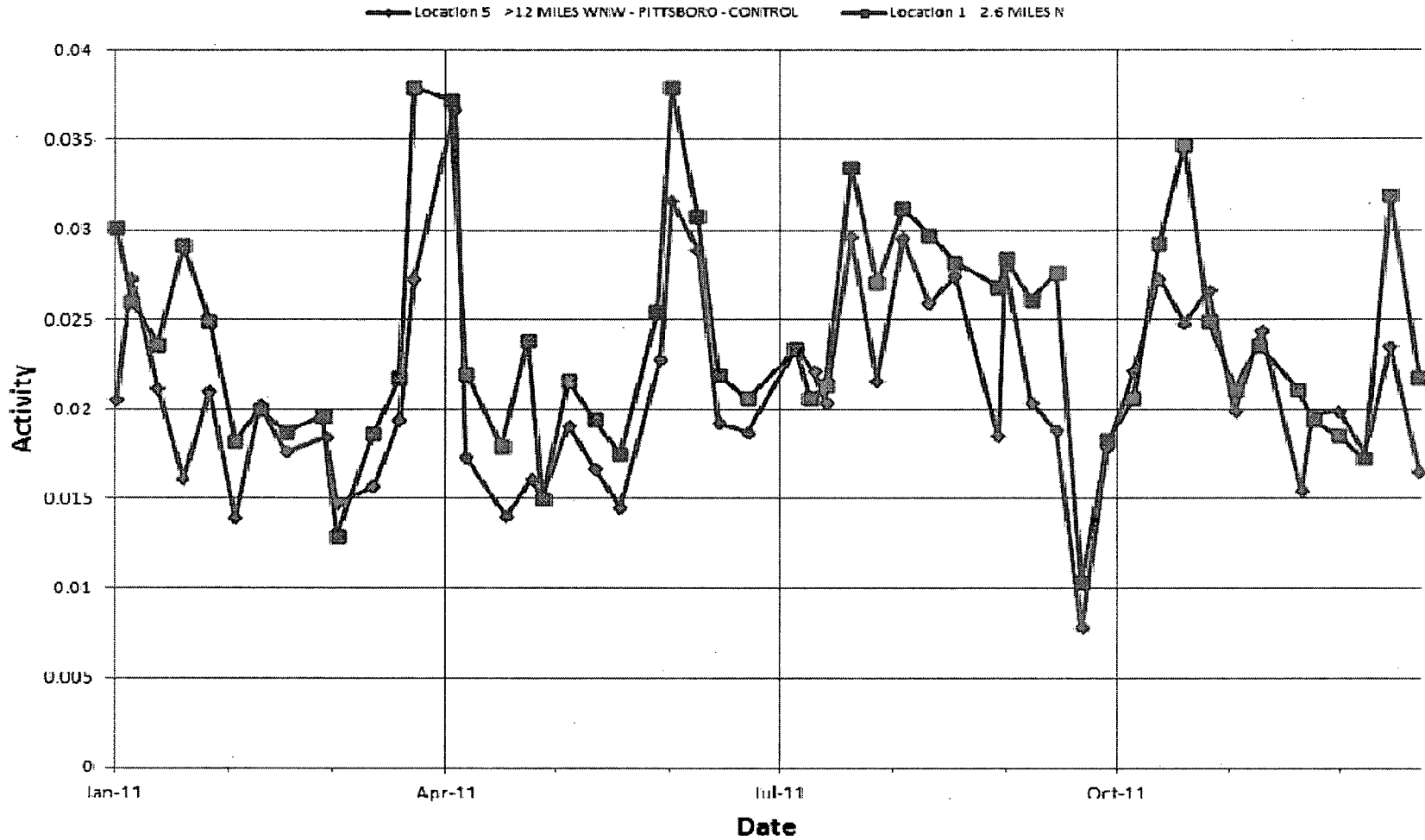


Figure 5 HNP from 1/1/2011 To 12/31/2011

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

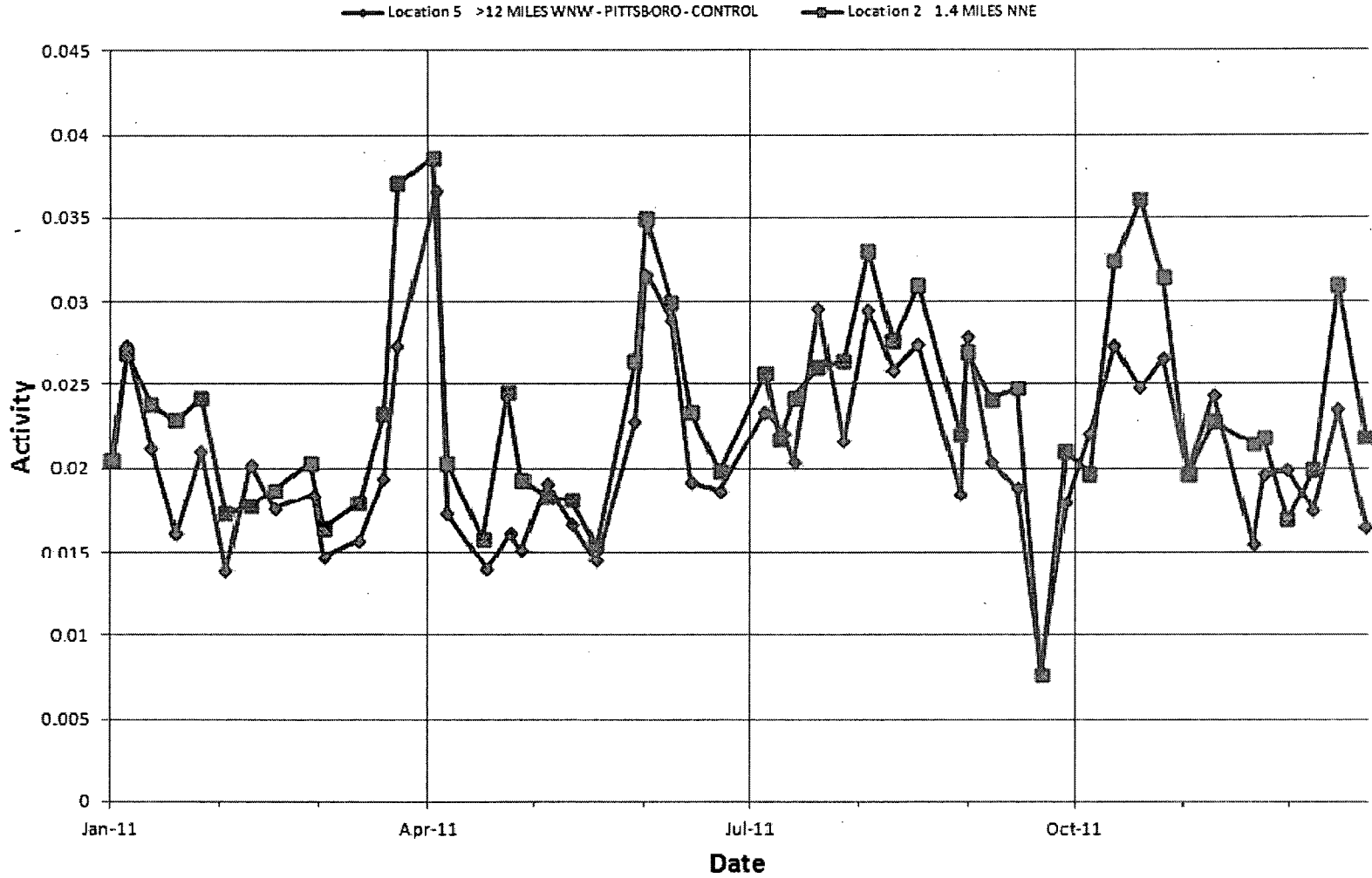


Figure 7 HNP from 1/1/2011 To 12/31/2011

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

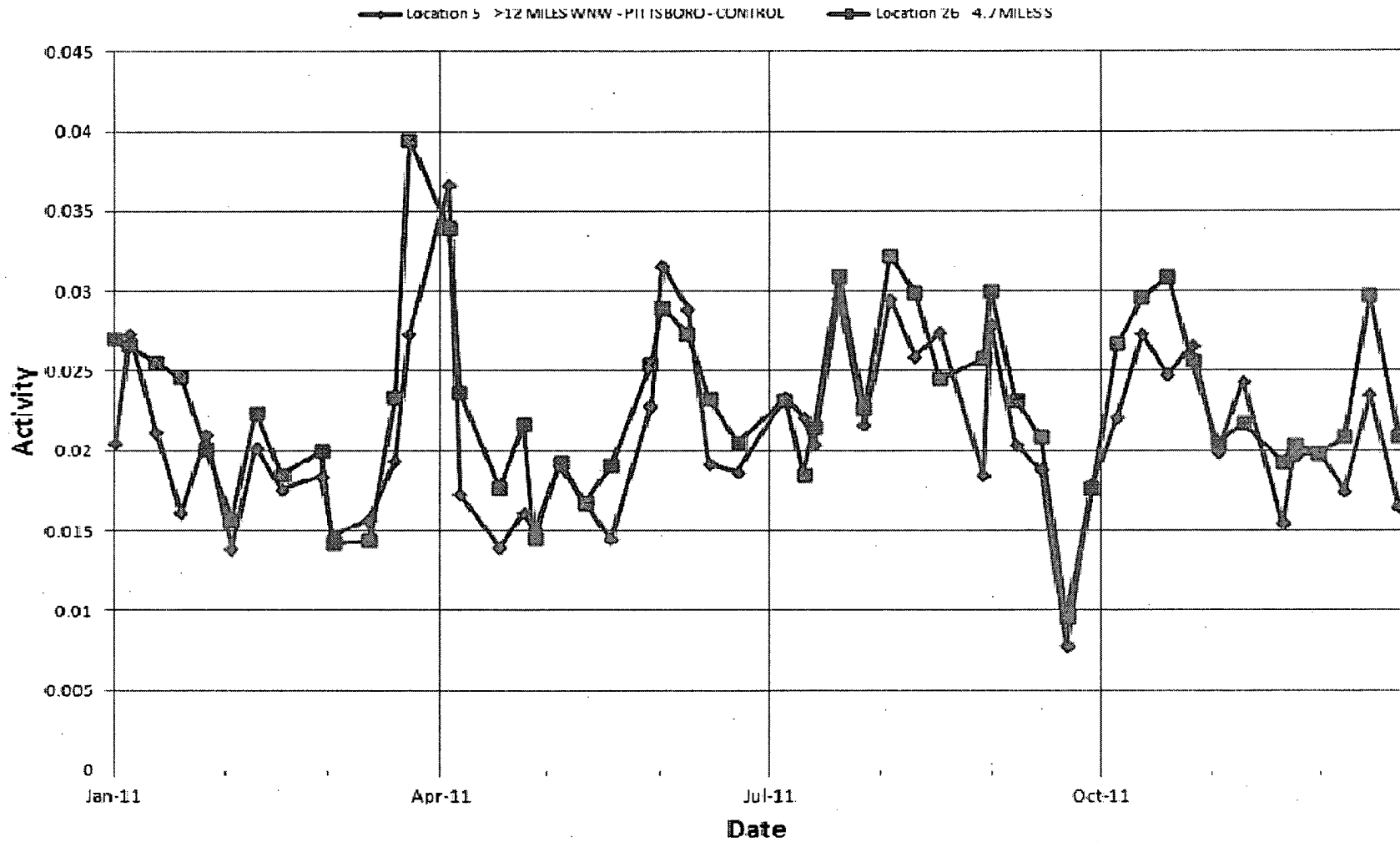


Figure 8 HNP from 1/1/2011 To 12/31/2011

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

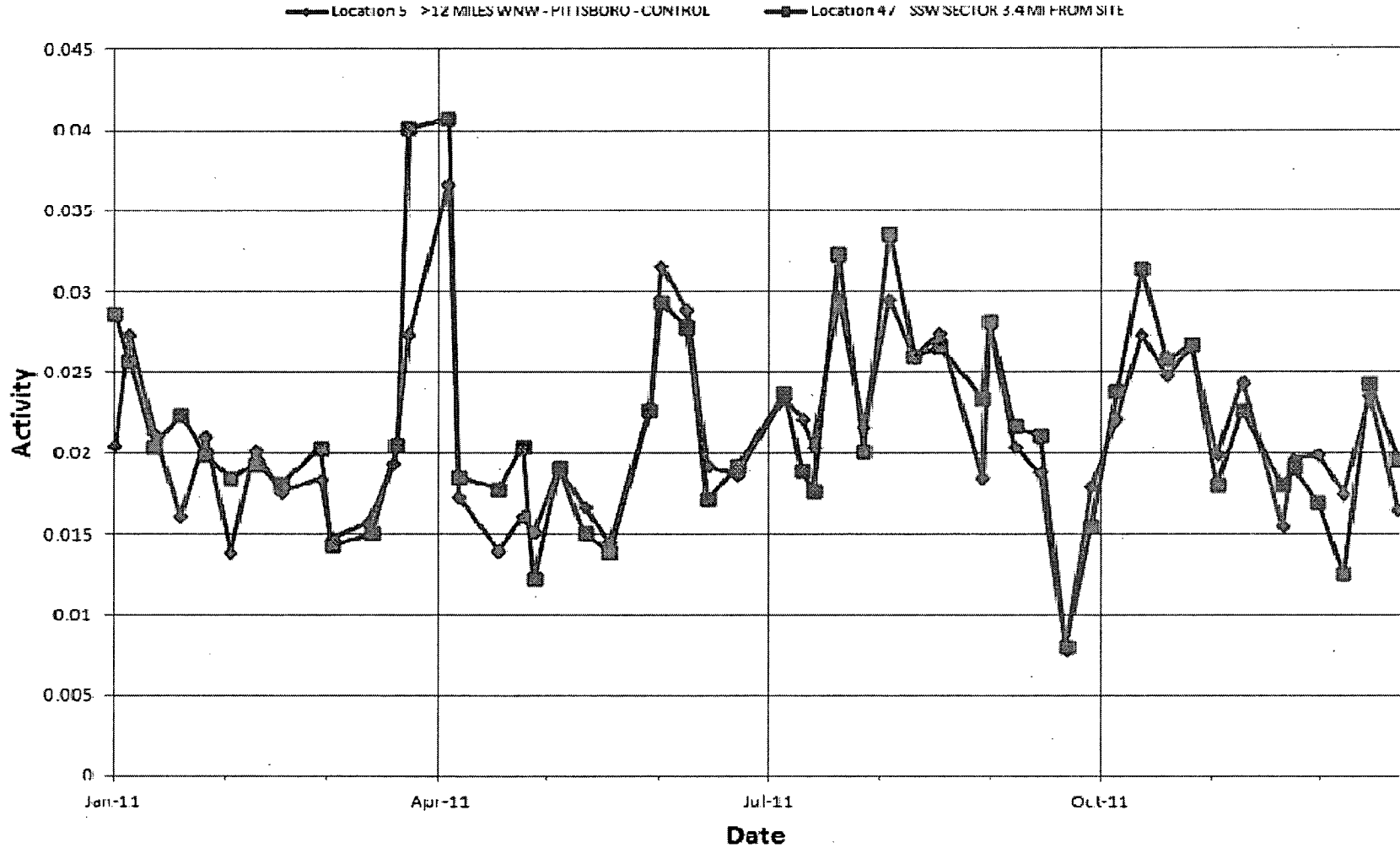


Figure 10 HNP from 1/1/2011 To 12/31/2011

AIRPARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

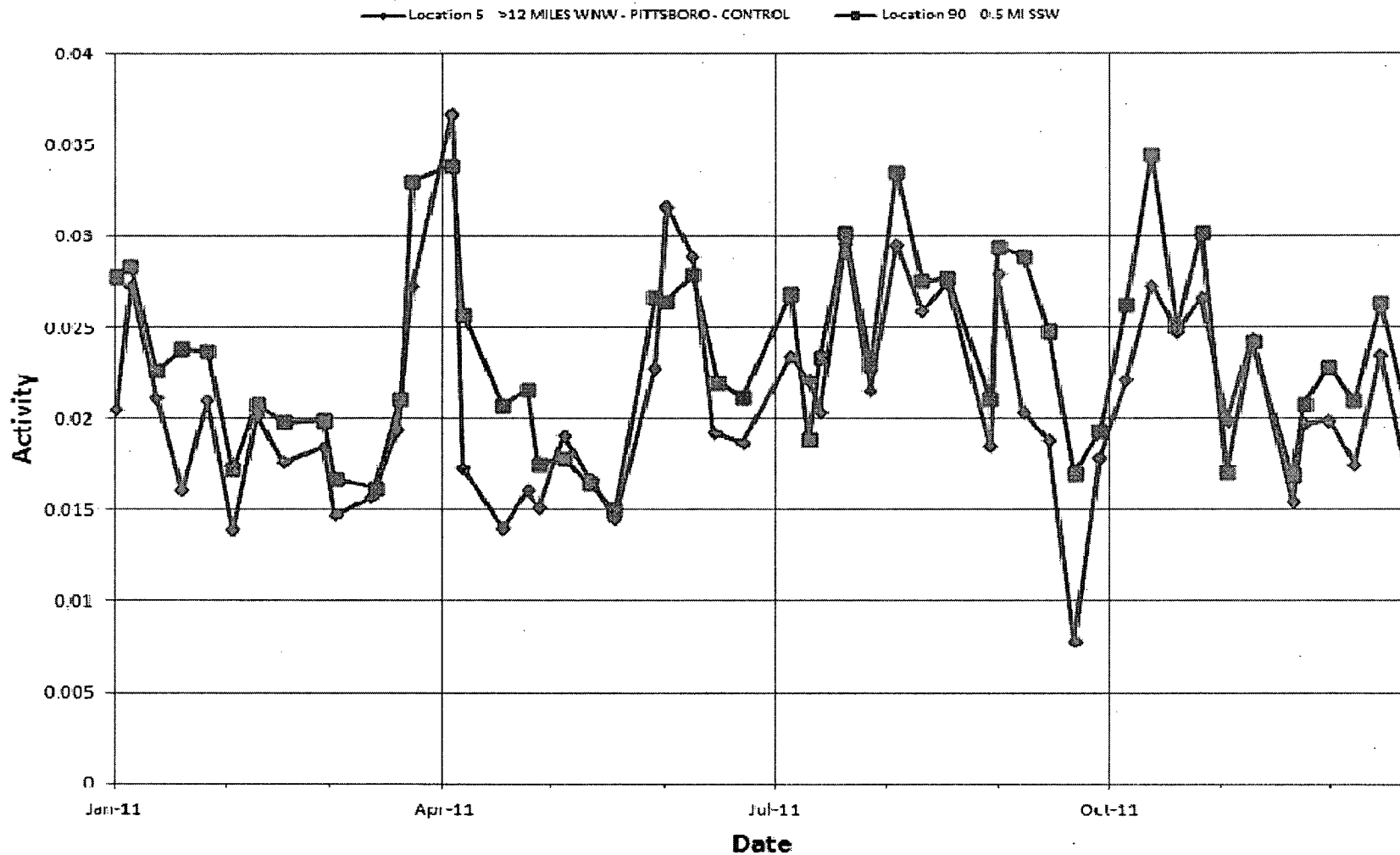


Figure 11 HNP from 1/1/2011 To 12/31/2011

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

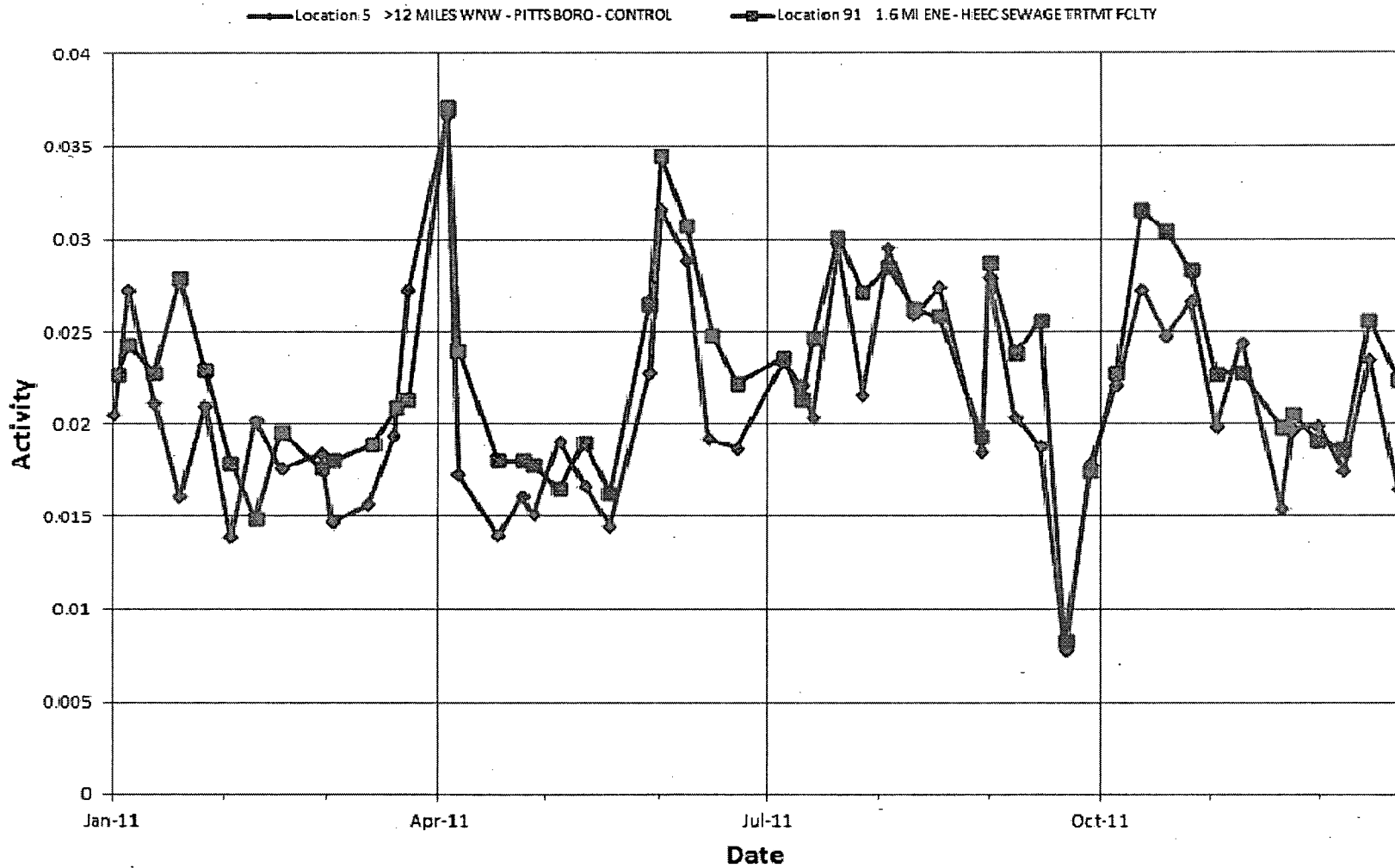


Figure 12 HNP from 1/1/2011 To 12/31/2011
DRINKING WATER for GROSS BETA - Activity (pCi/Liter)

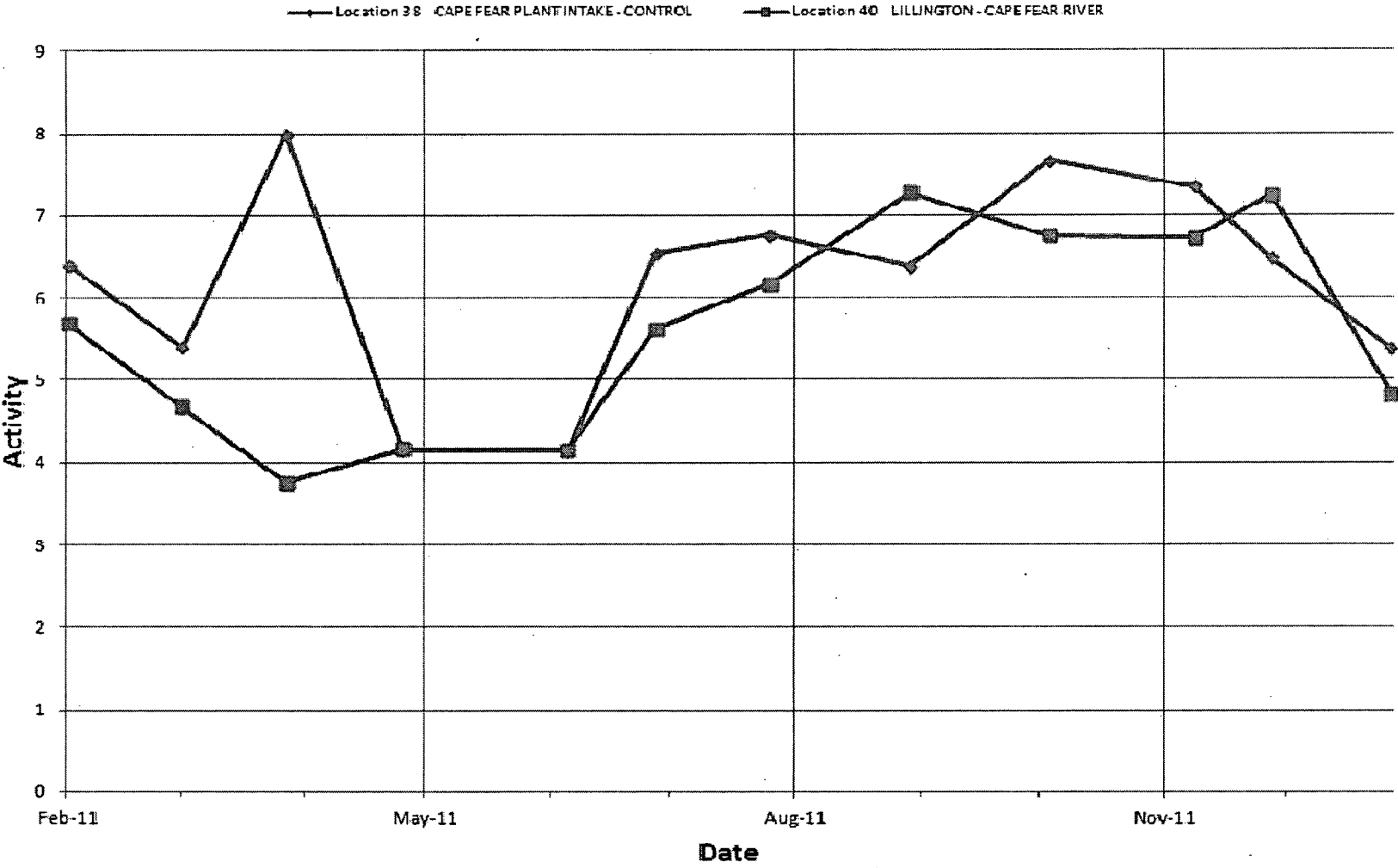


Figure 13 HNP from 1/1/2011 To 12/31/2011

SURFACE WATER for GROSS BETA - Activity ($\mu\text{Ci/Liter}$)

—◆— Location 38 CAPE FEAR PLANT INTAKE - CONTROL —■— Location 26 4.7 MILES S

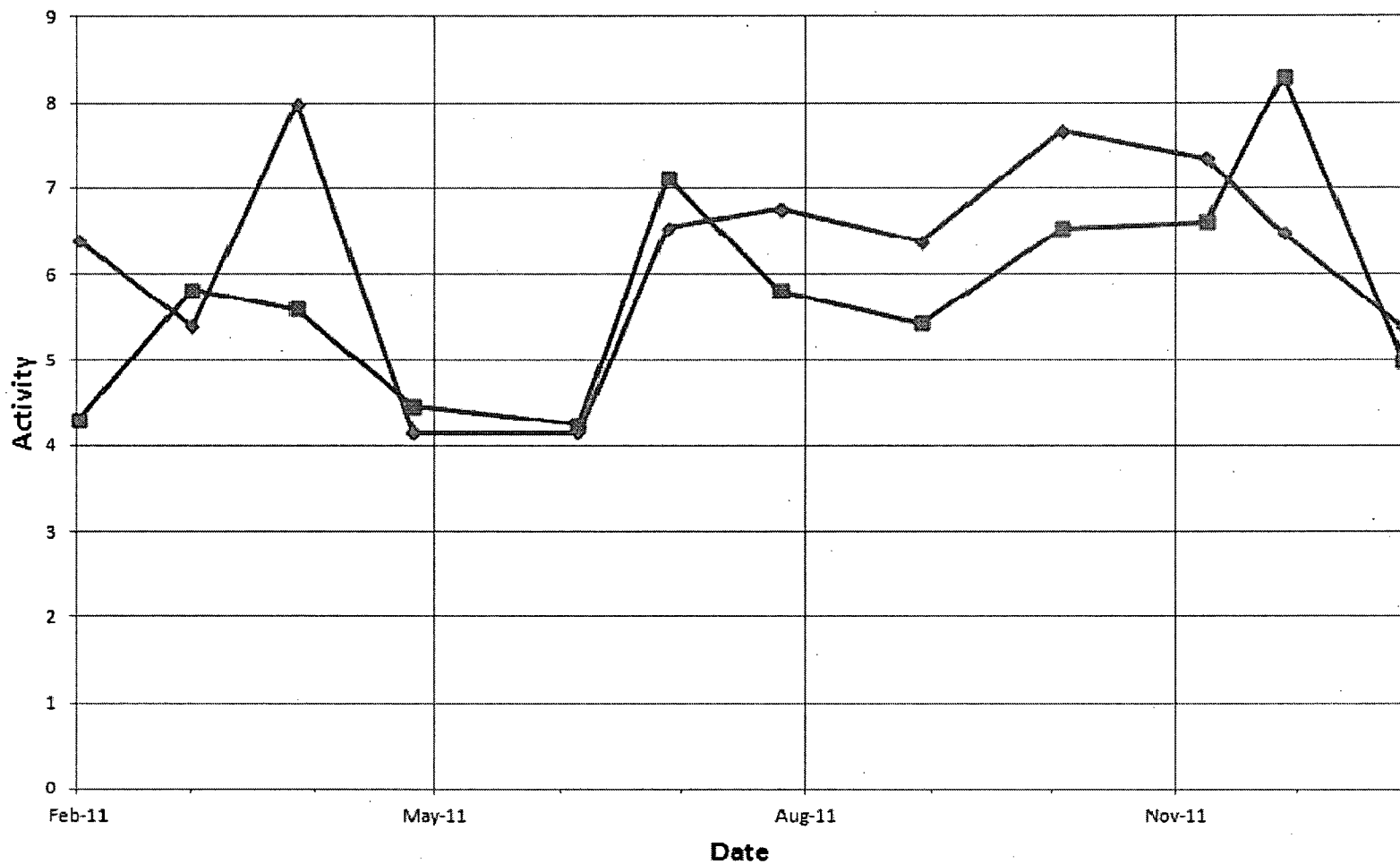


Figure 14 HNP 2011 Surface Water Tritium Activity

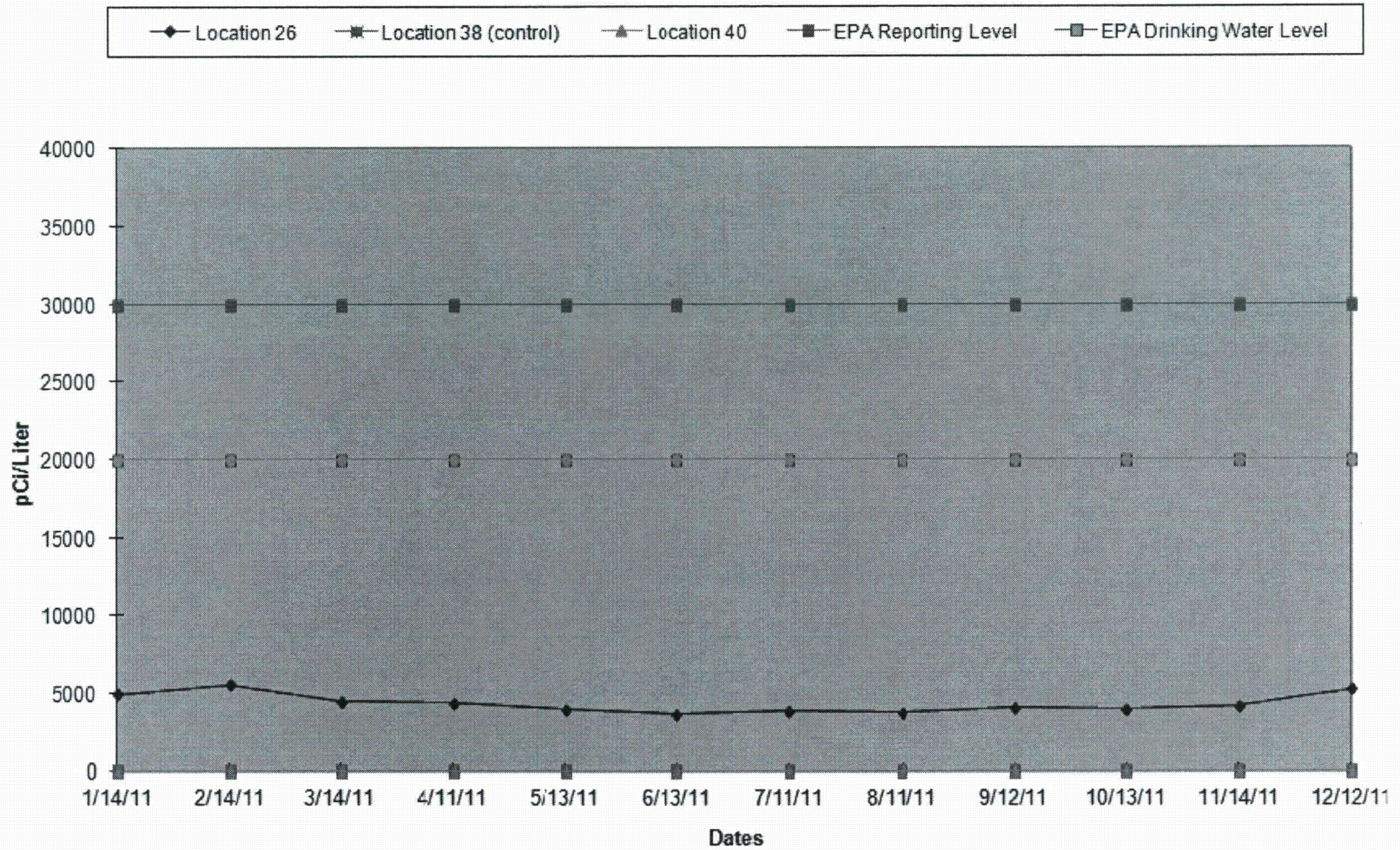
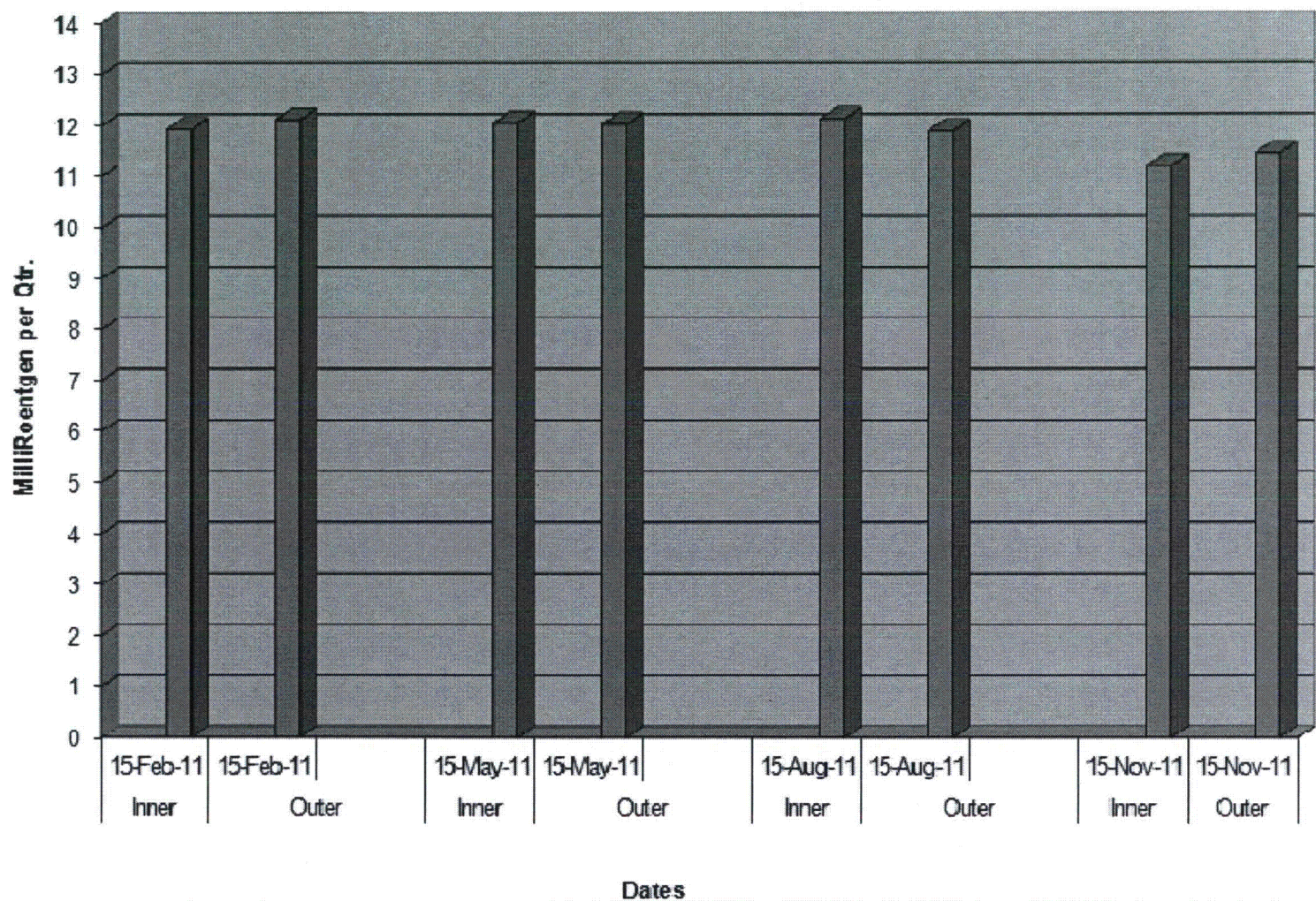


Figure 15 HNP 2011 TLD Averages for Inner and Outer Ring Locations



2011 HNP Radiological Environmental Monitoring TLD Report

Comments

- All HNP Environmental TLDS were present in 2011:

HNP Radiological Environmental Monitoring TLD Report

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
1	2.6 MILES N	2/15/2011	12.7	0.7
1	2.6 MILES N	5/15/2011	13.3	1
1	2.6 MILES N	8/15/2011	13	0.7
1	2.6 MILES N	11/15/2011	12.1	1.5
2	1.4 MILES NNE	2/15/2011	14.1	0.8
2	1.4 MILES NNE	5/15/2011	13.6	1.4
2	1.4 MILES NNE	8/15/2011	13.8	2.2
2	1.4 MILES NNE	11/15/2011	12.9	2.2
3	1.9 MILES ENE - HE&EC	2/15/2011	12.3	2.6
3	1.9 MILES ENE - HE&EC	5/15/2011	11.6	1.2
3	1.9 MILES ENE - HE&EC	8/15/2011	12.3	1.2
3	1.9 MILES ENE - HE&EC	11/15/2011	10.9	1.3
4	3.1 MILES NNE	2/15/2011	11.3	0.8
4	3.1 MILES NNE	5/15/2011	10.5	0.6
4	3.1 MILES NNE	8/15/2011	11.9	1.6
4	3.1 MILES NNE	11/15/2011	10.5	1.8
5	>12 MILES WNW - PITTSBORO - CONTROL	2/15/2011	15.5	0.5
5	>12 MILES WNW - PITTSBORO - CONTROL	5/15/2011	14.4	2.5
5	>12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	14.7	0.9
5	>12 MILES WNW - PITTSBORO - CONTROL	11/15/2011	14	1.6
6	0.8 MILES ENE	2/15/2011	12.2	1.3

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
6	0.8 MILES ENE	5/15/2011	11.5	0.9
6	0.8 MILES ENE	8/15/2011	12.6	1
6	0.8 MILES ENE	11/15/2011	11.2	1.4
7	0.7 MILES E	2/15/2011	12.5	0.8
7	0.7 MILES E	5/15/2011	12.3	1.4
7	0.7 MILES E	8/15/2011	13	1.7
7	0.7 MILES E	11/15/2011	11.6	1.1
8	0.6 MILES ESE	2/15/2011	11.4	0.6
8	0.6 MILES ESE	5/15/2011	11.7	0.6
8	0.6 MILES ESE	8/15/2011	11.7	1.7
8	0.6 MILES ESE	11/15/2011	11.7	0.7
9	2.2 MILES SE	2/15/2011	9.8	0.9
9	2.2 MILES SE	5/15/2011	10	1.5
9	2.2 MILES SE	8/15/2011	10	1.2
9	2.2 MILES SE	11/15/2011	9.2	0.8
10	2.2 MILES SSE	2/15/2011	11.2	2.1
10	2.2 MILES SSE	5/15/2011	10.8	1.7
10	2.2 MILES SSE	8/15/2011	11.2	0.9
10	2.2 MILES SSE	11/15/2011	9.8	1.6
11	0.6 MILES S	2/15/2011	10.7	0.6
11	0.6 MILES S	5/15/2011	10.6	0.6
11	0.6 MILES S	8/15/2011	11.1	1
11	0.6 MILES S	11/15/2011	10.3	2.3
12	0.9 MILES SSW	2/15/2011	10.1	0.5

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
12	0.9 MILES SSW	5/15/2011	11	1
12	0.9 MILES SSW	8/15/2011	9.9	1.2
12	0.9 MILES SSW	11/15/2011	9.9	1.4
13	0.7 MILES WSW	2/15/2011	10.8	0.9
13	0.7 MILES WSW	5/15/2011	10.4	0.8
13	0.7 MILES WSW	8/15/2011	11.3	1
13	0.7 MILES WSW	11/15/2011	9.8	1.9
14	1.5 MILES W	2/15/2011	13.5	1.5
14	1.5 MILES W	5/15/2011	15.4	2
14	1.5 MILES W	8/15/2011	13.6	1.2
14	1.5 MILES W	11/15/2011	14.3	1.4
15	2.0 MILES W	2/15/2011	10.1	0.9
15	2.0 MILES W	5/15/2011	10.5	1.2
15	2.0 MILES W	8/15/2011	10.5	1
15	2.0 MILES W	11/15/2011	9	1.9
19	5.0 MILES NNE	2/15/2011	10.9	0.7
19	5.0 MILES NNE	5/15/2011	11.2	1.6
19	5.0 MILES NNE	8/15/2011	10.3	1.3
19	5.0 MILES NNE	11/15/2011	10.1	1.1
20	4.5 MILES NE	2/15/2011	13.9	1.5
20	4.5 MILES NE	5/15/2011	13.5	1.4
20	4.5 MILES NE	8/15/2011	13.3	1.6
20	4.5 MILES NE	11/15/2011	12.4	1.5
21	4.8 MILES ENE	2/15/2011	13	2.5

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
21	4.8 MILES ENE	5/15/2011	10.9	2
21	4.8 MILES ENE	8/15/2011	13.1	1.6
21	4.8 MILES ENE	11/15/2011	10.3	2.2
22	4.3 MILES E	2/15/2011	10.3	1.1
22	4.3 MILES E	5/15/2011	10.5	1.4
22	4.3 MILES E	8/15/2011	10.2	1.2
22	4.3 MILES E	11/15/2011	9.9	0.8
23	4.8 MILES ESE	2/15/2011	13	1.4
23	4.8 MILES ESE	5/15/2011	13.2	1.6
23	4.8 MILES ESE	8/15/2011	12.9	1.1
23	4.8 MILES ESE	11/15/2011	12.9	2.1
24	4.0 MILES SE	2/15/2011	11.4	1.5
24	4.0 MILES SE	5/15/2011	11.3	1.9
24	4.0 MILES SE	8/15/2011	11.1	1.6
24	4.0 MILES SE	11/15/2011	10.4	0.9
25	4.7 MILES SSE	2/15/2011	14.7	1.9
25	4.7 MILES SSE	5/15/2011	12.2	0.9
25	4.7 MILES SSE	8/15/2011	14	1
25	4.7 MILES SSE	11/15/2011	11.8	0.9
26	4.7 MILES S	2/15/2011	12	0.9
26	4.7 MILES S	5/15/2011	12.4	1.1
26	4.7 MILES S	8/15/2011	12	1.2
26	4.7 MILES S	11/15/2011	12.1	1.4
27	4.8 MILES SW	2/15/2011	9.5	1.3

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
27	4.8 MILES SW	5/15/2011	10.3	1.6
27	4.8 MILES SW	8/15/2011	9.2	0.9
27	4.8 MILES SW	11/15/2011	9.5	0.8
28	4.8 MILES SSW	2/15/2011	10.6	0.9
28	4.8 MILES SSW	5/15/2011	10.7	1.7
28	4.8 MILES SSW	8/15/2011	10.8	0.8
28	4.8 MILES SSW	11/15/2011	9.3	1.3
29	5.7 MILES WSW	2/15/2011	13.8	1.3
29	5.7 MILES WSW	5/15/2011	14.2	0.8
29	5.7 MILES WSW	8/15/2011	13.2	1.2
29	5.7 MILES WSW	11/15/2011	13.5	1.6
30	5.6 MILES W	2/15/2011	9.8	1.1
30	5.6 MILES W	5/15/2011	9.8	2.2
30	5.6 MILES W	8/15/2011	9.8	1
30	5.6 MILES W	11/15/2011	9.4	1.5
31	4.7 MILES WNW	2/15/2011	9.8	1.4
31	4.7 MILES WNW	5/15/2011	9.5	1.8
31	4.7 MILES WNW	8/15/2011	9	1.4
31	4.7 MILES WNW	11/15/2011	9.2	0.8
32	6.4 MILES NNW	2/15/2011	12	1.9
32	6.4 MILES NNW	5/15/2011	12.6	0.7
32	6.4 MILES NNW	8/15/2011	12	1.1
32	6.4 MILES NNW	11/15/2011	12.4	0.9
33	4.5 MILES NNW	2/15/2011	9.8	2.9

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
33	4.5 MILES NNW	5/15/2011	10.5	1.2
33	4.5 MILES NNW	8/15/2011	9.9	1
33	4.5 MILES NNW	11/15/2011	10.1	1.3
34	8.7 MILES NE - APEX (POP. CENTER)	2/15/2011	15.1	2.1
34	8.7 MILES NE - APEX (POP. CENTER)	5/15/2011	15.2	2.2
34	8.7 MILES NE - APEX (POP. CENTER)	8/15/2011	14.8	1.4
34	8.7 MILES NE - APEX (POP. CENTER)	11/15/2011	14.5	1.1
35	6.9 MILES E - HOLLY SPRINGS (POP. CENTER)	2/15/2011	13.4	1.8
35	6.9 MILES E - HOLLY SPRINGS (POP. CENTER)	5/15/2011	12.4	1
35	6.9 MILES E - HOLLY SPRINGS (POP. CENTER)	8/15/2011	13.3	1.6
35	6.9 MILES E - HOLLY SPRINGS (POP. CENTER)	11/15/2011	12.4	1.2
36	10.9 MILES E	2/15/2011	10.1	1.5
36	10.9 MILES E	5/15/2011	10.6	1.9
36	10.9 MILES E	8/15/2011	9.6	1.6
36	10.9 MILES E	11/15/2011	9.8	1.6
37	9.2 MILES ESE - FV AT OLD CP&L OFFICE	2/15/2011	14.8	1.3
37	9.2 MILES ESE - FV AT OLD CP&L OFFICE	5/15/2011	14.8	1.8
37	9.2 MILES ESE - FV AT OLD CP&L OFFICE	8/15/2011	15	2.2
37	9.2 MILES ESE - FV AT OLD CP&L OFFICE	11/15/2011	14.3	0.8
48	4.5 MILES N	2/15/2011	12.7	2.4
48	4.5 MILES N	5/15/2011	13.1	2.8
48	4.5 MILES N	8/15/2011	13	3.2
48	4.5 MILES N	11/15/2011	13.3	2.5
49	2.5 MILES NE	2/15/2011	14.4	0.9

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
49	2.5 MILES NE	5/15/2011	14.6	1.7
49	2.5 MILES NE	8/15/2011	14.7	2
49	2.5 MILES NE	11/15/2011	13.7	1.9
50	2.6 MILES ESE - HOLLEMANS CROSSROADS	2/15/2011	11.8	1.3
50	2.6 MILES ESE - HOLLEMANS CROSSROADS	5/15/2011	10.9	1.4
50	2.6 MILES ESE - HOLLEMANS CROSSROADS	8/15/2011	11.7	0.8
50	2.6 MILES ESE - HOLLEMANS CROSSROADS	11/15/2011	10.3	1.7
53	5.8 MILES NW	2/15/2011	10.4	1.4
53	5.8 MILES NW	5/15/2011	11.3	1.2
53	5.8 MILES NW	8/15/2011	10.5	2.4
53	5.8 MILES NW	11/15/2011	10.4	1.8
56	3.0 MILES WSW	2/15/2011	12.9	1.2
56	3.0 MILES WSW	5/15/2011	12	1.2
56	3.0 MILES WSW	8/15/2011	12.6	1.5
56	3.0 MILES WSW	11/15/2011	10.5	1.6
63	0.6 MI SW	2/15/2011	12.9	1.2
63	0.6 MI SW	5/15/2011	13.6	2.8
63	0.6 MI SW	8/15/2011	12.8	1.7
63	0.6 MI SW	11/15/2011	11.5	1.7
67	1.2 MI ENE - HEEC SEWAGE TREATMENT FACILITY	2/15/2011	11	0.9
67	1.2 MI ENE - HEEC SEWAGE TREATMENT FACILITY	5/15/2011	11.7	1.5
67	1.2 MI ENE - HEEC SEWAGE TREATMENT FACILITY	8/15/2011	11.4	1.5
67	1.2 MI ENE - HEEC SEWAGE TREATMENT FACILITY	11/15/2011	11	1.1
93	2.2 MI WNW - SR 1911	2/15/2011	11.9	1.4

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
93	2.2 MI WNW - SR 1911	5/15/2011	12.5	0.8
93	2.2 MI WNW - SR 1911	8/15/2011	12.5	0.9
93	2.2 MI WNW - SR 1911	11/15/2011	11.6	1.6
94	2.0 MI NW - OFF OLD US HWY 1	2/15/2011	13.3	1.3
94	2.0 MI NW - OFF OLD US HWY 1	5/15/2011	13.8	1.6
94	2.0 MI NW - OFF OLD US HWY 1	8/15/2011	13.6	1.6
94	2.0 MI NW - OFF OLD US HWY 1	11/15/2011	12.8	0.7
95	2.0 MI NNW - BONSAL RD.	2/15/2011	11.6	1.1
95	2.0 MI NNW - BONSAL RD.	5/15/2011	12.9	2.2
95	2.0 MI NNW - BONSAL RD.	8/15/2011	11.7	1
95	2.0 MI NNW - BONSAL RD.	11/15/2011	12	1.1

2011 HNP Radiological Environmental Monitoring Analysis Report

Comments

- The Less than LLD (<LLD) and blank data fields represent that no detectable radioactivity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
1	2.6 MILES N	1/4/2011	284.2	3.01E-02	3.70E-03	2.97E-03
1	2.6 MILES N	1/10/2011	245	2.60E-02	3.97E-03	3.80E-03
1	2.6 MILES N	1/17/2011	288.8	2.36E-02	3.48E-03	3.32E-03
1	2.6 MILES N	1/24/2011	287.8	2.91E-02	3.65E-03	3.04E-03
1	2.6 MILES N	1/31/2011	284.4	2.49E-02	3.52E-03	3.20E-03
1	2.6 MILES N	2/7/2011	287.3	1.82E-02	3.21E-03	3.34E-03
1	2.6 MILES N	2/14/2011	285.4	2.00E-02	3.30E-03	3.29E-03
1	2.6 MILES N	2/21/2011	283.1	1.87E-02	3.20E-03	3.19E-03
1	2.6 MILES N	2/28/2011	283.4	1.96E-02	3.05E-03	2.59E-03
1	2.6 MILES N	3/7/2011	284.4	1.29E-02	2.76E-03	2.94E-03
1	2.6 MILES N	3/14/2011	282.8	1.86E-02	3.28E-03	3.42E-03
1	2.6 MILES N	3/21/2011	282.2	2.17E-02	3.23E-03	2.79E-03
1	2.6 MILES N	3/28/2011	282.3	3.79E-02	4.10E-03	3.12E-03
1	2.6 MILES N	4/4/2011	283.7	3.72E-02	4.04E-03	3.03E-03
1	2.6 MILES N	4/11/2011	281.5	2.20E-02	3.34E-03	3.05E-03
1	2.6 MILES N	4/18/2011	280.8	1.79E-02	3.21E-03	3.32E-03
1	2.6 MILES N	4/25/2011	280.6	2.38E-02	3.45E-03	3.11E-03
1	2.6 MILES N	5/2/2011	273.4	1.50E-02	3.05E-03	3.25E-03
1	2.6 MILES N	5/9/2011	274.6	2.16E-02	3.43E-03	3.32E-03
1	2.6 MILES N	5/16/2011	274	1.94E-02	3.34E-03	3.38E-03
1	2.6 MILES N	5/23/2011	273.9	1.75E-02	3.21E-03	3.30E-03
1	2.6 MILES N	5/31/2011	311.7	2.54E-02	3.39E-03	3.08E-03
1	2.6 MILES N	6/6/2011	233.2	3.79E-02	4.62E-03	3.81E-03
1	2.6 MILES N	6/13/2011	272.1	3.07E-02	3.88E-03	3.27E-03
1	2.6 MILES N	6/20/2011	269.5	2.19E-02	3.31E-03	2.82E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
1	2.6 MILES N	6/27/2011	272.8	2.06E-02	3.35E-03	3.20E-03
1	2.6 MILES N	7/5/2011	291.3	2.33E-02	3.37E-03	3.08E-03
1	2.6 MILES N	7/11/2011	233	2.06E-02	3.84E-03	4.06E-03
1	2.6 MILES N	7/18/2011	263.4	2.13E-02	3.63E-03	3.77E-03
1	2.6 MILES N	7/25/2011	265.4	3.35E-02	3.97E-03	3.00E-03
1	2.6 MILES N	8/1/2011	266.2	2.70E-02	3.84E-03	3.61E-03
1	2.6 MILES N	8/8/2011	266.9	3.12E-02	3.93E-03	3.27E-03
1	2.6 MILES N	8/15/2011	267.2	2.97E-02	3.87E-03	3.33E-03
1	2.6 MILES N	8/22/2011	261.7	2.82E-02	3.93E-03	3.62E-03
1	2.6 MILES N	8/29/2011	246.5	2.68E-02	3.83E-03	3.29E-03
1	2.6 MILES N	9/6/2011	282.7	2.84E-02	3.64E-03	3.01E-03
1	2.6 MILES N	9/12/2011	212.2	2.61E-02	4.43E-03	4.52E-03
1	2.6 MILES N	9/19/2011	250	2.76E-02	4.07E-03	3.95E-03
1	2.6 MILES N	9/26/2011	247.3	1.03E-02	3.06E-03	3.80E-03
1	2.6 MILES N	10/3/2011	250.6	1.83E-02	3.53E-03	3.78E-03
1	2.6 MILES N	10/10/2011	250.3	2.06E-02	3.76E-03	4.05E-03
1	2.6 MILES N	10/17/2011	250.1	2.92E-02	4.11E-03	3.81E-03
1	2.6 MILES N	10/25/2011	287.5	3.47E-02	3.86E-03	2.85E-03
1	2.6 MILES N	10/31/2011	217.3	2.49E-02	4.05E-03	3.73E-03
1	2.6 MILES N	11/7/2011	271.5	2.11E-02	3.37E-03	3.16E-03
1	2.6 MILES N	11/14/2011	269.1	2.36E-02	3.56E-03	3.30E-03
1	2.6 MILES N	11/21/2011	269.1	2.11E-02	3.43E-03	3.30E-03
1	2.6 MILES N	11/28/2011	268.8	1.94E-02	3.38E-03	3.41E-03
1	2.6 MILES N	12/5/2011	276.5	1.85E-02	3.23E-03	3.24E-03
1	2.6 MILES N	12/12/2011	276.6	1.72E-02	3.13E-03	3.16E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
1	2.6 MILES N	12/19/2011	274	3.19E-02	3.85E-03	3.02E-03
1	2.6 MILES N	12/27/2011	316.7	2.17E-02	3.10E-03	2.78E-03
2	1.4 MILES NNE	1/4/2011	264	2.05E-02	3.38E-03	3.19E-03
2	1.4 MILES NNE	1/10/2011	228.1	2.69E-02	4.21E-03	4.09E-03
2	1.4 MILES NNE	1/17/2011	268	2.38E-02	3.67E-03	3.58E-03
2	1.4 MILES NNE	1/24/2011	266.3	2.29E-02	3.53E-03	3.28E-03
2	1.4 MILES NNE	1/31/2011	263.4	2.42E-02	3.67E-03	3.46E-03
2	1.4 MILES NNE	2/7/2011	264.9	1.73E-02	3.36E-03	3.62E-03
2	1.4 MILES NNE	2/14/2011	263.5	1.78E-02	3.37E-03	3.56E-03
2	1.4 MILES NNE	2/21/2011	261.6	1.87E-02	3.38E-03	3.45E-03
2	1.4 MILES NNE	2/28/2011	261.2	2.03E-02	3.25E-03	2.81E-03
2	1.4 MILES NNE	3/7/2011	261.3	1.64E-02	3.15E-03	3.20E-03
2	1.4 MILES NNE	3/14/2011	260.7	1.79E-02	3.44E-03	3.71E-03
2	1.4 MILES NNE	3/21/2011	260.3	2.33E-02	3.49E-03	3.02E-03
2	1.4 MILES NNE	3/28/2011	260.4	3.71E-02	4.27E-03	3.38E-03
2	1.4 MILES NNE	4/4/2011	261.8	3.86E-02	4.30E-03	3.28E-03
2	1.4 MILES NNE	4/11/2011	259.4	2.03E-02	3.43E-03	3.31E-03
2	1.4 MILES NNE	4/18/2011	257.9	1.58E-02	3.30E-03	3.61E-03
2	1.4 MILES NNE	4/25/2011	258	2.45E-02	3.69E-03	3.39E-03
2	1.4 MILES NNE	5/2/2011	274.9	1.93E-02	3.28E-03	3.23E-03
2	1.4 MILES NNE	5/9/2011	276.8	1.83E-02	3.24E-03	3.29E-03
2	1.4 MILES NNE	5/16/2011	275.4	1.81E-02	3.26E-03	3.36E-03
2	1.4 MILES NNE	5/23/2011	275.8	1.54E-02	3.08E-03	3.28E-03
2	1.4 MILES NNE	5/31/2011	314.6	2.64E-02	3.42E-03	3.05E-03
2	1.4 MILES NNE	6/6/2011	235.5	3.49E-02	4.45E-03	3.77E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
2	1.4 MILES NNE	6/13/2011	274.5	3.00E-02	3.82E-03	3.24E-03
2	1.4 MILES NNE	6/20/2011	273.7	2.34E-02	3.36E-03	2.78E-03
2	1.4 MILES NNE	6/27/2011	275.1	1.98E-02	3.29E-03	3.18E-03
2	1.4 MILES NNE	7/5/2011	313.6	2.57E-02	3.33E-03	2.86E-03
2	1.4 MILES NNE	7/11/2011	240.3	2.17E-02	3.82E-03	3.94E-03
2	1.4 MILES NNE	7/18/2011	271.1	2.42E-02	3.71E-03	3.67E-03
2	1.4 MILES NNE	7/25/2011	272.9	2.61E-02	3.54E-03	2.91E-03
2	1.4 MILES NNE	8/1/2011	273.3	2.64E-02	3.75E-03	3.51E-03
2	1.4 MILES NNE	8/8/2011	273.4	3.30E-02	3.96E-03	3.20E-03
2	1.4 MILES NNE	8/15/2011	273.5	2.76E-02	3.72E-03	3.25E-03
2	1.4 MILES NNE	8/22/2011	273.2	3.10E-02	3.95E-03	3.46E-03
2	1.4 MILES NNE	8/29/2011	275.9	2.20E-02	3.32E-03	2.94E-03
2	1.4 MILES NNE	9/6/2011	314.9	2.70E-02	3.34E-03	2.70E-03
2	1.4 MILES NNE	9/12/2011	235.4	2.41E-02	4.02E-03	4.08E-03
2	1.4 MILES NNE	9/19/2011	275.8	2.48E-02	3.68E-03	3.58E-03
2	1.4 MILES NNE	9/26/2011	273.4	7.65E-03	2.66E-03	3.44E-03
2	1.4 MILES NNE	10/3/2011	276.8	2.10E-02	3.43E-03	3.42E-03
2	1.4 MILES NNE	10/10/2011	275.9	1.97E-02	3.46E-03	3.67E-03
2	1.4 MILES NNE	10/17/2011	275.8	3.24E-02	4.00E-03	3.46E-03
2	1.4 MILES NNE	10/25/2011	316.7	3.61E-02	3.70E-03	2.59E-03
2	1.4 MILES NNE	10/31/2011	239.3	3.14E-02	4.14E-03	3.39E-03
2	1.4 MILES NNE	11/7/2011	277.4	1.97E-02	3.24E-03	3.10E-03
2	1.4 MILES NNE	11/14/2011	276.9	2.28E-02	3.45E-03	3.21E-03
2	1.4 MILES NNE	11/21/2011	277.7	2.15E-02	3.37E-03	3.20E-03
2	1.4 MILES NNE	11/28/2011	278.9	2.18E-02	3.42E-03	3.29E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
2	1.4 MILES NNE	12/5/2011	284.1	1.69E-02	3.09E-03	3.15E-03
2	1.4 MILES NNE	12/12/2011	281	1.99E-02	3.24E-03	3.11E-03
2	1.4 MILES NNE	12/19/2011	278.8	3.10E-02	3.77E-03	2.97E-03
2	1.4 MILES NNE	12/27/2011	322.5	2.18E-02	3.06E-03	2.73E-03
4	3.1 MILES NNE	1/4/2011	273.3	2.49E-02	3.53E-03	3.09E-03
4	3.1 MILES NNE	1/10/2011	235.7	2.72E-02	4.14E-03	3.95E-03
4	3.1 MILES NNE	1/17/2011	277.3	2.39E-02	3.59E-03	3.46E-03
4	3.1 MILES NNE	1/24/2011	276	2.21E-02	3.40E-03	3.17E-03
4	3.1 MILES NNE	1/31/2011	274.8	2.09E-02	3.39E-03	3.31E-03
4	3.1 MILES NNE	2/7/2011	273.9	1.65E-02	3.24E-03	3.50E-03
4	3.1 MILES NNE	2/14/2011	274.6	1.74E-02	3.25E-03	3.42E-03
4	3.1 MILES NNE	2/21/2011	272.5	1.65E-02	3.17E-03	3.32E-03
4	3.1 MILES NNE	2/28/2011	272.6	1.81E-02	3.04E-03	2.70E-03
4	3.1 MILES NNE	3/7/2011	273.2	1.34E-02	2.88E-03	3.06E-03
4	3.1 MILES NNE	3/14/2011	271.7	1.59E-02	3.23E-03	3.56E-03
4	3.1 MILES NNE	3/21/2011	271.5	1.94E-02	3.18E-03	2.90E-03
4	3.1 MILES NNE	3/28/2011	271.3	3.51E-02	4.08E-03	3.25E-03
4	3.1 MILES NNE	4/4/2011	273.2	4.11E-02	4.29E-03	3.14E-03
4	3.1 MILES NNE	4/11/2011	270.9	2.10E-02	3.37E-03	3.17E-03
4	3.1 MILES NNE	4/18/2011	270.5	1.99E-02	3.41E-03	3.45E-03
4	3.1 MILES NNE	4/25/2011	197.5	1.97E-02	4.13E-03	4.43E-03
4	3.1 MILES NNE	5/2/2011	273.2	1.73E-02	3.18E-03	3.25E-03
4	3.1 MILES NNE	5/9/2011	275.4	1.82E-02	3.25E-03	3.31E-03
4	3.1 MILES NNE	5/16/2011	274.1	1.72E-02	3.22E-03	3.37E-03
4	3.1 MILES NNE	5/23/2011	274.8	1.68E-02	3.16E-03	3.29E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
4	3.1 MILES NNE	5/31/2011	312.4	2.61E-02	3.42E-03	3.07E-03
4	3.1 MILES NNE	6/6/2011	234.2	3.10E-02	4.28E-03	3.79E-03
4	3.1 MILES NNE	6/13/2011	273.1	3.01E-02	3.84E-03	3.25E-03
4	3.1 MILES NNE	6/20/2011	272.7	1.87E-02	3.10E-03	2.79E-03
4	3.1 MILES NNE	6/27/2011	273.9	1.97E-02	3.29E-03	3.19E-03
4	3.1 MILES NNE	7/5/2011	312.3	2.40E-02	3.26E-03	2.87E-03
4	3.1 MILES NNE	7/11/2011	238.7	2.12E-02	3.81E-03	3.96E-03
4	3.1 MILES NNE	7/18/2011	269.8	1.89E-02	3.45E-03	3.68E-03
4	3.1 MILES NNE	7/25/2011	271.8	3.32E-02	3.90E-03	2.92E-03
4	3.1 MILES NNE	8/1/2011	272.7	2.32E-02	3.60E-03	3.52E-03
4	3.1 MILES NNE	8/8/2011	272.3	3.19E-02	3.92E-03	3.21E-03
4	3.1 MILES NNE	8/15/2011	272.7	2.59E-02	3.64E-03	3.26E-03
4	3.1 MILES NNE	8/22/2011	270	2.92E-02	3.89E-03	3.50E-03
4	3.1 MILES NNE	8/29/2011	274.1	2.29E-02	3.38E-03	2.96E-03
4	3.1 MILES NNE	9/6/2011	312.8	2.76E-02	3.38E-03	2.72E-03
4	3.1 MILES NNE	9/12/2011	234	2.30E-02	3.99E-03	4.10E-03
4	3.1 MILES NNE	9/19/2011	274.8	2.40E-02	3.65E-03	3.59E-03
4	3.1 MILES NNE	9/26/2011	272.4	6.78E-03	2.61E-03	3.45E-03
4	3.1 MILES NNE	10/3/2011	276.1	1.52E-02	3.12E-03	3.43E-03
4	3.1 MILES NNE	10/10/2011	275.8	2.25E-02	3.61E-03	3.67E-03
4	3.1 MILES NNE	10/17/2011	275	2.97E-02	3.88E-03	3.47E-03
4	3.1 MILES NNE	10/25/2011	226.1	4.10E-02	4.77E-03	3.62E-03
4	3.1 MILES NNE	10/31/2011	328.6	1.74E-02	2.73E-03	2.47E-03
4	3.1 MILES NNE	11/7/2011	259.8	2.46E-02	3.65E-03	3.30E-03
4	3.1 MILES NNE	11/14/2011	258	2.24E-02	3.60E-03	3.44E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
4	3.1 MILES NNE	11/21/2011	257.9	2.04E-02	3.49E-03	3.45E-03
4	3.1 MILES NNE	11/28/2011	257.9	2.30E-02	3.67E-03	3.56E-03
4	3.1 MILES NNE	12/5/2011	270.8	1.87E-02	3.29E-03	3.31E-03
4	3.1 MILES NNE	12/12/2011	271.3	1.97E-02	3.31E-03	3.22E-03
4	3.1 MILES NNE	12/19/2011	268.6	2.98E-02	3.80E-03	3.08E-03
4	3.1 MILES NNE	12/27/2011	310.3	2.17E-02	3.14E-03	2.84E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	1/4/2011	270.4	2.05E-02	3.32E-03	3.12E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	232.9	2.73E-02	4.17E-03	4.00E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	1/17/2011	272.9	2.12E-02	3.49E-03	3.52E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	269.9	1.61E-02	3.12E-03	3.24E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	1/31/2011	265.5	2.10E-02	3.48E-03	3.43E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	268.6	1.39E-02	3.13E-03	3.57E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	2/14/2011	265	2.02E-02	3.49E-03	3.54E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	264	1.76E-02	3.30E-03	3.42E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	2/28/2011	263.2	1.84E-02	3.12E-03	2.79E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	263.7	1.47E-02	3.03E-03	3.17E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	3/14/2011	260.1	1.57E-02	3.32E-03	3.72E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	260.8	1.94E-02	3.27E-03	3.02E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	3/28/2011	260.9	2.73E-02	3.81E-03	3.38E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	3.67E-02	4.22E-03	3.28E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	1.73E-02	3.25E-03	3.30E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	257.5	1.40E-02	3.19E-03	3.62E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	4/25/2011	257.5	1.61E-02	3.22E-03	3.39E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	270.4	1.51E-02	3.08E-03	3.29E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	5/9/2011	271.8	1.91E-02	3.32E-03	3.35E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
5	>12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	270.8	1.67E-02	3.22E-03	3.42E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	5/23/2011	270.7	1.45E-02	3.06E-03	3.34E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	308.1	2.28E-02	3.30E-03	3.12E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	6/6/2011	230.9	3.16E-02	4.35E-03	3.85E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	269.6	2.89E-02	3.82E-03	3.30E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	6/20/2011	269	1.92E-02	3.16E-03	2.83E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	269.3	1.87E-02	3.28E-03	3.24E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	307.5	2.34E-02	3.26E-03	2.92E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	7/11/2011	235.8	2.21E-02	3.89E-03	4.01E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	264.4	2.04E-02	3.58E-03	3.76E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	7/25/2011	267.3	2.96E-02	3.76E-03	2.97E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	8/1/2011	266.1	2.16E-02	3.57E-03	3.61E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	8/8/2011	266.6	2.95E-02	3.85E-03	3.28E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	266	2.59E-02	3.70E-03	3.34E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	8/22/2011	265.8	2.74E-02	3.85E-03	3.56E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	8/29/2011	266.9	1.85E-02	3.20E-03	3.04E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	9/6/2011	303.1	2.79E-02	3.46E-03	2.81E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	227.6	2.04E-02	3.92E-03	4.22E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	267.3	1.88E-02	3.46E-03	3.69E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	264.3	7.82E-03	2.75E-03	3.55E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	10/3/2011	265.2	1.79E-02	3.37E-03	3.57E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	264.7	2.21E-02	3.69E-03	3.83E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	10/17/2011	265.3	2.73E-02	3.86E-03	3.59E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	10/25/2011	302.9	2.48E-02	3.28E-03	2.70E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	10/31/2011	231.4	2.66E-02	3.98E-03	3.51E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
5	>12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	259.8	1.99E-02	3.40E-03	3.30E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	260.4	2.44E-02	3.68E-03	3.41E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	11/21/2011	258.8	1.55E-02	3.20E-03	3.43E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	11/28/2011	259.1	1.97E-02	3.48E-03	3.54E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	284.5	1.99E-02	3.25E-03	3.15E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	12/12/2011	283.3	1.75E-02	3.09E-03	3.08E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	12/19/2011	280.1	2.35E-02	3.39E-03	2.95E-03
5	>12 MILES WNW - PITTSBORO - CONTROL	12/27/2011	325.8	1.65E-02	2.77E-03	2.70E-03
26	4.7 MILES S	1/4/2011	268.8	2.71E-02	3.68E-03	3.14E-03
26	4.7 MILES S	1/10/2011	231.3	2.66E-02	4.16E-03	4.03E-03
26	4.7 MILES S	1/17/2011	273.7	2.55E-02	3.70E-03	3.51E-03
26	4.7 MILES S	1/24/2011	271.3	2.46E-02	3.57E-03	3.22E-03
26	4.7 MILES S	1/31/2011	269.3	2.01E-02	3.40E-03	3.38E-03
26	4.7 MILES S	2/7/2011	269.7	1.57E-02	3.22E-03	3.56E-03
26	4.7 MILES S	2/14/2011	267.8	2.24E-02	3.57E-03	3.51E-03
26	4.7 MILES S	2/21/2011	266.5	1.85E-02	3.33E-03	3.39E-03
26	4.7 MILES S	2/28/2011	265.5	2.00E-02	3.20E-03	2.77E-03
26	4.7 MILES S	3/7/2011	267.1	1.42E-02	2.97E-03	3.13E-03
26	4.7 MILES S	3/14/2011	265.6	1.44E-02	3.19E-03	3.64E-03
26	4.7 MILES S	3/21/2011	265	2.34E-02	3.46E-03	2.97E-03
26	4.7 MILES S	3/28/2011	269.7	3.95E-02	4.28E-03	3.27E-03
26	4.7 MILES S	4/4/2011	260	3.39E-02	4.10E-03	3.30E-03
26	4.7 MILES S	4/11/2011	263.4	2.36E-02	3.57E-03	3.26E-03
26	4.7 MILES S	4/18/2011	189	1.77E-02	4.26E-03	4.93E-03
26	4.7 MILES S	4/25/2011	220.7	2.16E-02	3.93E-03	3.96E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
26	4.7 MILES S	5/2/2011	270.8	1.45E-02	3.04E-03	3.28E-03
26	4.7 MILES S	5/9/2011	269.8	1.93E-02	3.35E-03	3.38E-03
26	4.7 MILES S	5/16/2011	271.2	1.68E-02	3.22E-03	3.41E-03
26	4.7 MILES S	5/23/2011	266.2	1.91E-02	3.36E-03	3.39E-03
26	4.7 MILES S	5/31/2011	306.4	2.54E-02	3.43E-03	3.13E-03
26	4.7 MILES S	6/6/2011	226.7	2.90E-02	4.27E-03	3.92E-03
26	4.7 MILES S	6/13/2011	267.7	2.73E-02	3.76E-03	3.32E-03
26	4.7 MILES S	6/20/2011	265.8	2.33E-02	3.42E-03	2.86E-03
26	4.7 MILES S	6/27/2011	267.4	2.05E-02	3.39E-03	3.27E-03
26	4.7 MILES S	7/5/2011	299.8	2.32E-02	3.30E-03	2.99E-03
26	4.7 MILES S	7/11/2011	229.8	1.85E-02	3.77E-03	4.12E-03
26	4.7 MILES S	7/18/2011	262.2	2.15E-02	3.66E-03	3.79E-03
26	4.7 MILES S	7/25/2011	262.8	3.10E-02	3.87E-03	3.02E-03
26	4.7 MILES S	8/1/2011	262.2	2.26E-02	3.66E-03	3.66E-03
26	4.7 MILES S	8/8/2011	262.3	3.22E-02	4.02E-03	3.33E-03
26	4.7 MILES S	8/15/2011	265.1	2.99E-02	3.90E-03	3.35E-03
26	4.7 MILES S	8/22/2011	260.8	2.45E-02	3.76E-03	3.63E-03
26	4.7 MILES S	8/29/2011	263.7	2.58E-02	3.62E-03	3.08E-03
26	4.7 MILES S	9/6/2011	300.4	3.01E-02	3.58E-03	2.83E-03
26	4.7 MILES S	9/12/2011	225.1	2.32E-02	4.10E-03	4.26E-03
26	4.7 MILES S	9/19/2011	267	2.09E-02	3.57E-03	3.70E-03
26	4.7 MILES S	9/26/2011	258.5	9.62E-03	2.92E-03	3.63E-03
26	4.7 MILES S	10/3/2011	264.9	1.77E-02	3.36E-03	3.57E-03
26	4.7 MILES S	10/10/2011	264.7	2.67E-02	3.91E-03	3.83E-03
26	4.7 MILES S	10/17/2011	265.5	2.96E-02	3.96E-03	3.59E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
26	4.7 MILES S	10/25/2011	304	3.09E-02	3.56E-03	2.70E-03
26	4.7 MILES S	10/31/2011	230.4	2.56E-02	3.94E-03	3.52E-03
26	4.7 MILES S	11/7/2011	266.8	2.05E-02	3.37E-03	3.22E-03
26	4.7 MILES S	11/14/2011	267.4	2.17E-02	3.47E-03	3.32E-03
26	4.7 MILES S	11/21/2011	265.3	1.93E-02	3.36E-03	3.35E-03
26	4.7 MILES S	11/28/2011	266.1	2.04E-02	3.46E-03	3.45E-03
26	4.7 MILES S	12/5/2011	276.8	1.98E-02	3.30E-03	3.24E-03
26	4.7 MILES S	12/12/2011	277.6	2.09E-02	3.33E-03	3.15E-03
26	4.7 MILES S	12/19/2011	270.8	2.97E-02	3.77E-03	3.06E-03
26	4.7 MILES S	12/27/2011	317.4	2.09E-02	3.05E-03	2.78E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/4/2011	278.4	2.86E-02	3.67E-03	3.03E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/10/2011	239.1	2.57E-02	4.02E-03	3.90E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/17/2011	283.6	2.04E-02	3.36E-03	3.38E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/24/2011	282.4	2.24E-02	3.37E-03	3.09E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/31/2011	280.7	1.99E-02	3.30E-03	3.24E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/7/2011	281.2	1.84E-02	3.28E-03	3.41E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/14/2011	277.7	1.93E-02	3.33E-03	3.38E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/21/2011	278.4	1.81E-02	3.21E-03	3.25E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/28/2011	277.6	2.03E-02	3.13E-03	2.65E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/7/2011	280	1.43E-02	2.88E-03	2.98E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/14/2011	280.1	1.50E-02	3.11E-03	3.45E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/21/2011	280.8	2.05E-02	3.18E-03	2.80E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/28/2011	286.8	4.01E-02	4.15E-03	3.07E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	4.07E-02	4.24E-03	3.10E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/11/2011	281.6	1.85E-02	3.15E-03	3.05E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
47	SSW SECTOR 3.4 MI FROM SITE	4/18/2011	264.8	1.78E-02	3.35E-03	3.52E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/25/2011	273.3	2.04E-02	3.33E-03	3.20E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/2/2011	271.7	1.22E-02	2.89E-03	3.27E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/9/2011	270.9	1.91E-02	3.33E-03	3.36E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/16/2011	273.2	1.50E-02	3.11E-03	3.39E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/23/2011	268.2	1.39E-02	3.04E-03	3.37E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/31/2011	309.1	2.26E-02	3.28E-03	3.11E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/6/2011	229.1	2.93E-02	4.26E-03	3.88E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/13/2011	270.5	2.78E-02	3.76E-03	3.29E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/20/2011	268.8	1.71E-02	3.04E-03	2.83E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/27/2011	270.5	1.92E-02	3.29E-03	3.23E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/5/2011	295.4	2.37E-02	3.36E-03	3.03E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/11/2011	192.7	1.89E-02	4.31E-03	4.91E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/18/2011	263.4	1.77E-02	3.44E-03	3.77E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/25/2011	265.1	3.23E-02	3.91E-03	3.00E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/1/2011	265.1	2.01E-02	3.50E-03	3.62E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/8/2011	265.9	3.36E-02	4.05E-03	3.29E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/15/2011	269.1	2.60E-02	3.68E-03	3.30E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/22/2011	264.7	2.66E-02	3.82E-03	3.57E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/29/2011	267.7	2.34E-02	3.46E-03	3.03E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/6/2011	306.3	2.82E-02	3.45E-03	2.78E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/12/2011	229.9	2.16E-02	3.96E-03	4.18E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/19/2011	271.7	2.11E-02	3.54E-03	3.63E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/26/2011	264.3	8.01E-03	2.76E-03	3.55E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/3/2011	270.2	1.55E-02	3.19E-03	3.50E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
47	SSW SECTOR 3.4 MI FROM SITE	10/10/2011	269.4	2.38E-02	3.73E-03	3.76E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/17/2011	270.8	3.14E-02	4.00E-03	3.52E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/25/2011	309.5	2.58E-02	3.28E-03	2.65E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/31/2011	234	2.67E-02	3.96E-03	3.47E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/7/2011	277	1.80E-02	3.15E-03	3.10E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/14/2011	278.1	2.26E-02	3.43E-03	3.20E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/21/2011	276.1	1.80E-02	3.20E-03	3.22E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/28/2011	277.8	1.91E-02	3.29E-03	3.30E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/5/2011	293.4	1.69E-02	3.02E-03	3.05E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/12/2011	288.1	1.25E-02	2.77E-03	3.03E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/19/2011	284.9	2.43E-02	3.39E-03	2.90E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/27/2011	331.6	1.96E-02	2.90E-03	2.66E-03
63	0.6 MI SW	1/4/2011	278	2.36E-02	3.42E-03	3.03E-03
63	0.6 MI SW	1/10/2011	241	2.52E-02	3.98E-03	3.87E-03
63	0.6 MI SW	1/17/2011	286	2.56E-02	3.60E-03	3.36E-03
63	0.6 MI SW	1/24/2011	282.5	1.64E-02	3.04E-03	3.09E-03
63	0.6 MI SW	1/31/2011	276.5	2.39E-02	3.53E-03	3.29E-03
63	0.6 MI SW	2/7/2011	280.5	1.81E-02	3.26E-03	3.42E-03
63	0.6 MI SW	2/14/2011	280.1	1.79E-02	3.23E-03	3.35E-03
63	0.6 MI SW	2/21/2011	275.4	1.29E-02	2.93E-03	3.28E-03
63	0.6 MI SW	2/28/2011	276	2.08E-02	3.17E-03	2.66E-03
63	0.6 MI SW	3/7/2011	277.7	1.76E-02	3.09E-03	3.01E-03
63	0.6 MI SW	3/14/2011	276.5	1.76E-02	3.28E-03	3.50E-03
63	0.6 MI SW	3/21/2011	275.8	1.87E-02	3.11E-03	2.85E-03
63	0.6 MI SW	3/28/2011	277.4	2.98E-02	3.78E-03	3.18E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
63	0.6 MI SW	4/4/2011	279.2	3.68E-02	4.06E-03	3.08E-03
63	0.6 MI SW	4/11/2011	276.7	2.05E-02	3.30E-03	3.10E-03
63	0.6 MI SW	4/18/2011	274.1	1.91E-02	3.34E-03	3.40E-03
63	0.6 MI SW	4/25/2011	275.3	2.50E-02	3.56E-03	3.17E-03
63	0.6 MI SW	5/2/2011	260.6	1.83E-02	3.35E-03	3.41E-03
63	0.6 MI SW	5/9/2011	263.7	2.16E-02	3.53E-03	3.45E-03
63	0.6 MI SW	5/16/2011	263.2	1.54E-02	3.21E-03	3.51E-03
63	0.6 MI SW	5/23/2011	264.9	1.96E-02	3.40E-03	3.41E-03
63	0.6 MI SW	5/31/2011	305.4	2.97E-02	3.64E-03	3.14E-03
63	0.6 MI SW	6/6/2011	230.8	3.43E-02	4.48E-03	3.85E-03
63	0.6 MI SW	6/13/2011	271.3	3.24E-02	3.96E-03	3.28E-03
63	0.6 MI SW	6/20/2011	273.2	2.20E-02	3.28E-03	2.79E-03
63	0.6 MI SW	6/27/2011	273.7	2.09E-02	3.36E-03	3.19E-03
63	0.6 MI SW	7/5/2011	236.3	2.64E-02	4.03E-03	3.79E-03
63	0.6 MI SW	7/11/2011	224.5	2.11E-02	3.97E-03	4.22E-03
63	0.6 MI SW	7/18/2011	256.6	2.38E-02	3.83E-03	3.87E-03
63	0.6 MI SW	7/25/2011	261.6	3.37E-02	4.01E-03	3.04E-03
63	0.6 MI SW	8/1/2011	266.5	2.60E-02	3.79E-03	3.60E-03
63	0.6 MI SW	8/8/2011	267.6	3.15E-02	3.94E-03	3.27E-03
63	0.6 MI SW	8/15/2011	269.3	2.89E-02	3.82E-03	3.30E-03
63	0.6 MI SW	8/22/2011	270.1	3.14E-02	4.00E-03	3.50E-03
63	0.6 MI SW	8/29/2011	272.3	2.10E-02	3.29E-03	2.98E-03
63	0.6 MI SW	9/6/2011	290.8	2.93E-02	3.62E-03	2.93E-03
63	0.6 MI SW	9/12/2011	220.4	2.79E-02	4.41E-03	4.36E-03
63	0.6 MI SW	9/19/2011	259.9	2.67E-02	3.93E-03	3.80E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
63	0.6 MI SW	9/26/2011	258.7	1.66E-02	3.34E-03	3.63E-03
63	0.6 MI SW	10/3/2011	264.2	1.74E-02	3.35E-03	3.58E-03
63	0.6 MI SW	10/10/2011	262.3	2.62E-02	3.91E-03	3.86E-03
63	0.6 MI SW	10/17/2011	261.5	3.26E-02	4.14E-03	3.64E-03
63	0.6 MI SW	10/25/2011	300.7	2.56E-02	3.34E-03	2.72E-03
63	0.6 MI SW	10/31/2011	228.9	2.96E-02	4.16E-03	3.54E-03
63	0.6 MI SW	11/7/2011	262.2	2.21E-02	3.50E-03	3.27E-03
63	0.6 MI SW	11/14/2011	260	2.05E-02	3.48E-03	3.42E-03
63	0.6 MI SW	11/21/2011	259.8	1.65E-02	3.25E-03	3.42E-03
63	0.6 MI SW	11/28/2011	260.2	1.91E-02	3.44E-03	3.53E-03
63	0.6 MI SW	12/5/2011	277.5	1.68E-02	3.13E-03	3.23E-03
63	0.6 MI SW	12/12/2011	278.6	1.99E-02	3.26E-03	3.14E-03
63	0.6 MI SW	12/19/2011	274.1	2.01E-02	3.25E-03	3.02E-03
63	0.6 MI SW	12/27/2011	317.1	1.99E-02	3.01E-03	2.78E-03
90	0.5 MI SSW	1/4/2011	277	2.78E-02	3.65E-03	3.04E-03
90	0.5 MI SSW	1/10/2011	239.8	2.83E-02	4.15E-03	3.89E-03
90	0.5 MI SSW	1/17/2011	286.1	2.26E-02	3.45E-03	3.36E-03
90	0.5 MI SSW	1/24/2011	284.4	2.38E-02	3.42E-03	3.07E-03
90	0.5 MI SSW	1/31/2011	281.1	2.37E-02	3.49E-03	3.24E-03
90	0.5 MI SSW	2/7/2011	285.8	1.72E-02	3.18E-03	3.36E-03
90	0.5 MI SSW	2/14/2011	283.9	2.08E-02	3.35E-03	3.31E-03
90	0.5 MI SSW	2/21/2011	277.9	1.98E-02	3.30E-03	3.25E-03
90	0.5 MI SSW	2/28/2011	282.1	1.99E-02	3.07E-03	2.60E-03
90	0.5 MI SSW	3/7/2011	284.8	1.67E-02	2.99E-03	2.93E-03
90	0.5 MI SSW	3/14/2011	286.2	1.62E-02	3.12E-03	3.38E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
90	0.5 MI SSW	3/21/2011	287.2	2.11E-02	3.16E-03	2.74E-03
90	0.5 MI SSW	3/28/2011	292	3.30E-02	3.81E-03	3.02E-03
90	0.5 MI SSW	4/4/2011	301.4	3.39E-02	3.75E-03	2.85E-03
90	0.5 MI SSW	4/11/2011	295.2	2.57E-02	3.42E-03	2.91E-03
90	0.5 MI SSW	4/18/2011	296.3	2.07E-02	3.24E-03	3.15E-03
90	0.5 MI SSW	4/25/2011	296.6	2.16E-02	3.22E-03	2.95E-03
90	0.5 MI SSW	5/2/2011	270.8	1.75E-02	3.21E-03	3.28E-03
90	0.5 MI SSW	5/9/2011	272.9	1.78E-02	3.24E-03	3.34E-03
90	0.5 MI SSW	5/16/2011	272	1.64E-02	3.19E-03	3.40E-03
90	0.5 MI SSW	5/23/2011	272.4	1.50E-02	3.08E-03	3.32E-03
90	0.5 MI SSW	5/31/2011	311.1	2.66E-02	3.45E-03	3.09E-03
90	0.5 MI SSW	6/6/2011	233.2	2.64E-02	4.06E-03	3.81E-03
90	0.5 MI SSW	6/13/2011	272.5	2.79E-02	3.74E-03	3.26E-03
90	0.5 MI SSW	6/20/2011	272.9	2.20E-02	3.29E-03	2.79E-03
90	0.5 MI SSW	6/27/2011	272.8	2.12E-02	3.38E-03	3.20E-03
90	0.5 MI SSW	7/5/2011	311.9	2.68E-02	3.39E-03	2.87E-03
90	0.5 MI SSW	7/11/2011	238.1	1.88E-02	3.69E-03	3.97E-03
90	0.5 MI SSW	7/18/2011	269.7	2.33E-02	3.67E-03	3.68E-03
90	0.5 MI SSW	7/25/2011	271.3	3.02E-02	3.76E-03	2.93E-03
90	0.5 MI SSW	8/1/2011	272.7	2.29E-02	3.58E-03	3.52E-03
90	0.5 MI SSW	8/8/2011	272	3.35E-02	3.99E-03	3.21E-03
90	0.5 MI SSW	8/15/2011	272.5	2.75E-02	3.72E-03	3.26E-03
90	0.5 MI SSW	8/22/2011	271.1	2.77E-02	3.81E-03	3.49E-03
90	0.5 MI SSW	8/29/2011	273.5	2.11E-02	3.29E-03	2.97E-03
90	0.5 MI SSW	9/6/2011	284.1	2.94E-02	3.67E-03	2.99E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
90	0.5 MI SSW	9/12/2011	214.5	2.89E-02	4.54E-03	4.48E-03
90	0.5 MI SSW	9/19/2011	251.6	2.48E-02	3.92E-03	3.92E-03
90	0.5 MI SSW	9/26/2011	248.9	1.70E-02	3.46E-03	3.77E-03
90	0.5 MI SSW	10/3/2011	254.1	1.93E-02	3.55E-03	3.72E-03
90	0.5 MI SSW	10/10/2011	252.2	2.62E-02	4.02E-03	4.02E-03
90	0.5 MI SSW	10/17/2011	251.5	3.44E-02	4.33E-03	3.79E-03
90	0.5 MI SSW	10/25/2011	288.5	2.50E-02	3.39E-03	2.84E-03
90	0.5 MI SSW	10/31/2011	219	3.02E-02	4.32E-03	3.70E-03
90	0.5 MI SSW	11/7/2011	238.9	1.71E-02	3.44E-03	3.59E-03
90	0.5 MI SSW	11/14/2011	240.9	2.42E-02	3.86E-03	3.69E-03
90	0.5 MI SSW	11/21/2011	240	1.69E-02	3.46E-03	3.70E-03
90	0.5 MI SSW	11/28/2011	242.7	2.08E-02	3.70E-03	3.78E-03
90	0.5 MI SSW	12/5/2011	261.7	2.28E-02	3.59E-03	3.42E-03
90	0.5 MI SSW	12/12/2011	264.3	2.10E-02	3.44E-03	3.31E-03
90	0.5 MI SSW	12/19/2011	261.7	2.63E-02	3.69E-03	3.16E-03
90	0.5 MI SSW	12/27/2011	304.6	2.00E-02	3.09E-03	2.89E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/4/2011	272.6	2.27E-02	3.42E-03	3.09E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/10/2011	233.9	2.43E-02	4.01E-03	3.99E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/17/2011	275.3	2.28E-02	3.55E-03	3.49E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/24/2011	274	2.79E-02	3.71E-03	3.19E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/31/2011	271	2.29E-02	3.53E-03	3.36E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/7/2011	273.6	1.79E-02	3.31E-03	3.51E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/14/2011	272.2	1.49E-02	3.13E-03	3.45E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/21/2011	271.2	1.96E-02	3.35E-03	3.33E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/28/2011	270.9	1.76E-02	3.02E-03	2.71E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/7/2011	270.8	1.80E-02	3.17E-03	3.08E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/14/2011	269.5	1.89E-02	3.41E-03	3.59E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/21/2011	270.1	2.09E-02	3.28E-03	2.91E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/28/2011	268.5	2.13E-02	3.43E-03	3.28E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	3.71E-02	4.17E-03	3.20E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.6	2.40E-02	3.55E-03	3.21E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/18/2011	267.3	1.80E-02	3.33E-03	3.49E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/25/2011	267.4	1.80E-02	3.25E-03	3.27E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/2/2011	279.4	1.78E-02	3.16E-03	3.18E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/9/2011	261.8	1.65E-02	3.26E-03	3.48E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	260	1.90E-02	3.44E-03	3.56E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/23/2011	261.9	1.63E-02	3.24E-03	3.45E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/31/2011	297.3	2.65E-02	3.55E-03	3.23E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/6/2011	225.5	3.45E-02	4.56E-03	3.94E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/13/2011	266.5	3.07E-02	3.93E-03	3.33E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/20/2011	266.6	2.48E-02	3.49E-03	2.85E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/27/2011	263.3	2.22E-02	3.52E-03	3.32E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/5/2011	299	2.36E-02	3.33E-03	3.00E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/11/2011	233	2.13E-02	3.88E-03	4.06E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/18/2011	267.7	2.46E-02	3.76E-03	3.71E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/25/2011	272.3	3.01E-02	3.74E-03	2.92E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/1/2011	281.3	2.71E-02	3.71E-03	3.41E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/8/2011	286.8	2.85E-02	3.63E-03	3.05E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/15/2011	279.8	2.62E-02	3.60E-03	3.18E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/22/2011	292	2.58E-02	3.54E-03	3.24E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/29/2011	290.8	1.93E-02	3.07E-03	2.79E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/6/2011	291.3	2.87E-02	3.59E-03	2.92E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/12/2011	220.3	2.38E-02	4.20E-03	4.36E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/19/2011	261.7	2.56E-02	3.86E-03	3.77E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/26/2011	260.5	8.32E-03	2.82E-03	3.61E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/3/2011	264.1	1.75E-02	3.36E-03	3.58E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/10/2011	265.5	2.28E-02	3.72E-03	3.82E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/17/2011	265.1	3.15E-02	4.06E-03	3.60E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/25/2011	304.6	3.04E-02	3.53E-03	2.69E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/31/2011	230.4	2.83E-02	4.08E-03	3.52E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/7/2011	273.8	2.27E-02	3.43E-03	3.14E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	271.3	2.28E-02	3.50E-03	3.28E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/21/2011	270.5	1.98E-02	3.35E-03	3.29E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/28/2011	270.4	2.05E-02	3.42E-03	3.39E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/5/2011	270.6	1.91E-02	3.31E-03	3.31E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/12/2011	270.8	1.86E-02	3.26E-03	3.23E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/19/2011	268.8	2.56E-02	3.59E-03	3.08E-03
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/27/2011	310.4	2.24E-02	3.18E-03	2.84E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.00	6.40E+00	1.15E+00	1.01E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.00	5.39E+00	1.01E+00	9.10E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.00	7.98E+00	1.16E+00	9.71E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.00	4.14E+00	8.78E-01	8.57E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.00	4.14E+00	9.23E-01	9.43E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.00	6.54E+00	1.07E+00	8.80E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.00	6.76E+00	1.15E+00	1.03E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.00	6.38E+00	1.14E+00	1.01E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.00	7.66E+00	1.12E+00	7.40E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.00	7.34E+00	1.09E+00	8.05E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.00	6.48E+00	1.05E+00	8.45E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.00	5.38E+00	9.21E-01	7.40E-01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.00	5.68E+00	1.07E+00	9.66E-01
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.00	4.67E+00	9.44E-01	8.81E-01
40	LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.00	3.76E+00	8.91E-01	9.55E-01
40	LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.00	4.16E+00	9.04E-01	8.93E-01
40	LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.00	4.15E+00	9.06E-01	9.17E-01
40	LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.00	5.61E+00	9.89E-01	8.49E-01
40	LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.00	6.16E+00	1.14E+00	1.08E+00
40	LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.00	7.27E+00	1.17E+00	9.73E-01
40	LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.00	6.75E+00	1.04E+00	7.10E-01
40	LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.00	6.72E+00	1.06E+00	8.19E-01
40	LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.00	7.25E+00	1.10E+00	8.60E-01
40	LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.00	4.82E+00	8.82E-01	7.38E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.00	3.73E+00	8.46E-01	8.42E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.00	4.26E+00	8.74E-01	8.21E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.00	3.95E+00	8.96E-01	9.42E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
51	WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.00	3.01E+00	7.78E-01	8.29E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.00	2.42E+00	7.05E-01	8.02E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.00	3.26E+00	7.45E-01	7.33E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.00	2.70E+00	7.48E-01	8.40E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.00	3.59E+00	8.11E-01	8.10E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.00	3.63E+00	7.32E-01	5.96E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.00	2.56E+00	6.62E-01	6.69E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.00	3.27E+00	7.48E-01	7.31E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.00	3.56E+00	7.59E-01	6.92E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
26	4.7 MILES S	1/14/2011	1.00	4.29E+00	8.77E-01	8.28E-01
26	4.7 MILES S	2/14/2011	1.00	5.82E+00	9.74E-01	8.19E-01
26	4.7 MILES S	3/14/2011	1.00	5.59E+00	1.00E+00	9.45E-01
26	4.7 MILES S	4/11/2011	1.00	4.46E+00	9.06E-01	8.66E-01
26	4.7 MILES S	5/13/2011	1.00	4.24E+00	8.85E-01	8.78E-01
26	4.7 MILES S	6/13/2011	1.00	7.12E+00	1.06E+00	8.18E-01
26	4.7 MILES S	7/11/2011	1.00	5.81E+00	1.03E+00	9.48E-01
26	4.7 MILES S	8/11/2011	1.00	5.42E+00	9.67E-01	8.57E-01
26	4.7 MILES S	9/12/2011	1.00	6.53E+00	9.85E-01	6.61E-01
26	4.7 MILES S	10/13/2011	1.00	6.60E+00	1.01E+00	7.64E-01
26	4.7 MILES S	11/14/2011	1.00	8.29E+00	1.13E+00	8.22E-01
26	4.7 MILES S	12/12/2011	1.00	4.98E+00	9.04E-01	7.53E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.00	6.40E+00	1.15E+00	1.01E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.00	5.39E+00	1.01E+00	9.10E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.00	7.98E+00	1.16E+00	9.71E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.00	4.14E+00	8.78E-01	8.57E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.00	4.14E+00	9.23E-01	9.43E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.00	6.54E+00	1.07E+00	8.80E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.00	6.76E+00	1.15E+00	1.03E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.00	6.38E+00	1.14E+00	1.01E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.00	7.66E+00	1.12E+00	7.40E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.00	7.34E+00	1.09E+00	8.05E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.00	6.48E+00	1.05E+00	8.45E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.00	5.38E+00	9.21E-01	7.40E-01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.00	5.68E+00	1.07E+00	9.66E-01
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.00	4.67E+00	9.44E-01	8.81E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
40	LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.00	3.76E+00	8.91E-01	9.55E-01
40	LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.00	4.16E+00	9.04E-01	8.93E-01
40	LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.00	4.15E+00	9.06E-01	9.17E-01
40	LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.00	5.61E+00	9.89E-01	8.49E-01
40	LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.00	6.16E+00	1.14E+00	1.08E+00
40	LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.00	7.27E+00	1.17E+00	9.73E-01
40	LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.00	6.75E+00	1.04E+00	7.10E-01
40	LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.00	6.72E+00	1.06E+00	8.19E-01
40	LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.00	7.25E+00	1.10E+00	8.60E-01
40	LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.00	4.82E+00	8.82E-01	7.38E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
1	2.6 MILES N	1/4/2011	284.20		2.15E-02
1	2.6 MILES N	1/10/2011	245.00		1.78E-02
1	2.6 MILES N	1/17/2011	288.80		1.83E-02
1	2.6 MILES N	1/24/2011	287.80		2.12E-02
1	2.6 MILES N	1/31/2011	284.40		2.31E-02
1	2.6 MILES N	2/7/2011	287.30		1.97E-02
1	2.6 MILES N	2/14/2011	285.40		2.52E-02
1	2.6 MILES N	2/21/2011	283.10		2.26E-02
1	2.6 MILES N	2/28/2011	283.40		2.46E-02
1	2.6 MILES N	3/7/2011	284.40		1.95E-02
1	2.6 MILES N	3/14/2011	282.80		2.27E-02
1	2.6 MILES N	3/21/2011	282.20		2.64E-02
1	2.6 MILES N	3/28/2011	282.30	1.50E-01	0.0308
1	2.6 MILES N	4/4/2011	283.70	1.85E-01	0.0264
1	2.6 MILES N	4/11/2011	281.50	3.26E-02	0.0209
1	2.6 MILES N	4/18/2011	280.80		2.57E-02
1	2.6 MILES N	4/25/2011	280.60		2.32E-02
1	2.6 MILES N	5/2/2011	273.40		1.96E-02
1	2.6 MILES N	5/9/2011	274.60		1.75E-02
1	2.6 MILES N	5/16/2011	274.00		2.14E-02
1	2.6 MILES N	5/23/2011	273.90		2.22E-02
1	2.6 MILES N	5/31/2011	311.70		2.07E-02
1	2.6 MILES N	6/6/2011	233.20		2.38E-02
1	2.6 MILES N	6/13/2011	272.10		1.63E-02
1	2.6 MILES N	6/20/2011	269.50		2.22E-02
1	2.6 MILES N	6/27/2011	272.80		2.29E-02
1	2.6 MILES N	7/5/2011	291.30		2.04E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
1	2.6 MILES N	7/11/2011	233.00		1.97E-02
1	2.6 MILES N	7/18/2011	263.40		2.26E-02
1	2.6 MILES N	7/25/2011	265.40		2.19E-02
1	2.6 MILES N	8/1/2011	266.20		2.21E-02
1	2.6 MILES N	8/8/2011	266.90		2.58E-02
1	2.6 MILES N	8/15/2011	267.20		2.12E-02
1	2.6 MILES N	8/22/2011	261.70		1.95E-02
1	2.6 MILES N	8/29/2011	246.50		2.40E-02
1	2.6 MILES N	9/6/2011	282.70		2.24E-02
1	2.6 MILES N	9/12/2011	212.20		3.21E-02
1	2.6 MILES N	9/19/2011	250.00		2.62E-02
1	2.6 MILES N	9/26/2011	247.30		2.60E-02
1	2.6 MILES N	10/3/2011	250.60		3.18E-02
1	2.6 MILES N	10/10/2011	250.30		2.87E-02
1	2.6 MILES N	10/17/2011	250.10		2.68E-02
1	2.6 MILES N	10/25/2011	287.50		2.30E-02
1	2.6 MILES N	10/31/2011	217.30		3.23E-02
1	2.6 MILES N	11/7/2011	271.50		2.15E-02
1	2.6 MILES N	11/14/2011	269.10		2.42E-02
1	2.6 MILES N	11/21/2011	269.10		1.96E-02
1	2.6 MILES N	11/28/2011	268.80		2.16E-02
1	2.6 MILES N	12/5/2011	276.50		2.08E-02
1	2.6 MILES N	12/12/2011	276.60		1.66E-02
1	2.6 MILES N	12/19/2011	274.00		2.33E-02
1	2.6 MILES N	12/27/2011	316.70		1.99E-02
2	1.4 MILES NNE	1/4/2011	264.00		2.24E-02
2	1.4 MILES NNE	1/10/2011	228.10		1.78E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
2	1.4 MILES NNE	1/17/2011	268.00		2.56E-02
2	1.4 MILES NNE	1/24/2011	266.30		1.91E-02
2	1.4 MILES NNE	1/31/2011	263.40		2.00E-02
2	1.4 MILES NNE	2/7/2011	264.90		2.30E-02
2	1.4 MILES NNE	2/14/2011	263.50		1.96E-02
2	1.4 MILES NNE	2/21/2011	261.60		2.14E-02
2	1.4 MILES NNE	2/28/2011	261.20		2.39E-02
2	1.4 MILES NNE	3/7/2011	261.30		2.02E-02
2	1.4 MILES NNE	3/14/2011	260.70		1.89E-02
2	1.4 MILES NNE	3/21/2011	260.30		2.40E-02
2	1.4 MILES NNE	3/28/2011	260.40	1.45E-01	0.0294
2	1.4 MILES NNE	4/4/2011	261.80	1.64E-01	0.0333
2	1.4 MILES NNE	4/11/2011	259.40	4.42E-02	0.0226
2	1.4 MILES NNE	4/18/2011	257.90		2.32E-02
2	1.4 MILES NNE	4/25/2011	258.00		2.20E-02
2	1.4 MILES NNE	5/2/2011	274.90		2.54E-02
2	1.4 MILES NNE	5/9/2011	276.80		2.00E-02
2	1.4 MILES NNE	5/16/2011	275.40		1.96E-02
2	1.4 MILES NNE	5/23/2011	275.80		1.60E-02
2	1.4 MILES NNE	5/31/2011	314.60		1.66E-02
2	1.4 MILES NNE	6/6/2011	235.50		2.61E-02
2	1.4 MILES NNE	6/13/2011	274.50		2.61E-02
2	1.4 MILES NNE	6/20/2011	273.70		1.96E-02
2	1.4 MILES NNE	6/27/2011	275.10		2.01E-02
2	1.4 MILES NNE	7/5/2011	313.60		1.83E-02
2	1.4 MILES NNE	7/11/2011	240.30		2.35E-02
2	1.4 MILES NNE	7/18/2011	271.10		1.89E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
2	1.4 MILES NNE	7/25/2011	272.90		2.09E-02
2	1.4 MILES NNE	8/1/2011	273.30		2.31E-02
2	1.4 MILES NNE	8/8/2011	273.40		1.57E-02
2	1.4 MILES NNE	8/15/2011	273.50		2.03E-02
2	1.4 MILES NNE	8/22/2011	273.20		2.16E-02
2	1.4 MILES NNE	8/29/2011	275.90		2.46E-02
2	1.4 MILES NNE	9/6/2011	314.90		1.65E-02
2	1.4 MILES NNE	9/12/2011	235.40		2.41E-02
2	1.4 MILES NNE	9/19/2011	275.80		1.75E-02
2	1.4 MILES NNE	9/26/2011	273.40		1.79E-02
2	1.4 MILES NNE	10/3/2011	276.80		1.90E-02
2	1.4 MILES NNE	10/10/2011	275.90		1.70E-02
2	1.4 MILES NNE	10/17/2011	275.80		2.06E-02
2	1.4 MILES NNE	10/25/2011	316.70		1.78E-02
2	1.4 MILES NNE	10/31/2011	239.30		2.17E-02
2	1.4 MILES NNE	11/7/2011	277.40		1.87E-02
2	1.4 MILES NNE	11/14/2011	276.90		1.74E-02
2	1.4 MILES NNE	11/21/2011	277.70		1.64E-02
2	1.4 MILES NNE	11/28/2011	278.90		1.96E-02
2	1.4 MILES NNE	12/5/2011	284.10		2.09E-02
2	1.4 MILES NNE	12/12/2011	281.00		2.48E-02
2	1.4 MILES NNE	12/19/2011	278.80		2.39E-02
2	1.4 MILES NNE	12/27/2011	322.50		2.29E-02
4	3.1 MILES NNE	1/4/2011	273.30		1.73E-02
4	3.1 MILES NNE	1/10/2011	235.70		1.03E-02
4	3.1 MILES NNE	1/17/2011	277.30		2.47E-02
4	3.1 MILES NNE	1/24/2011	276.00		1.76E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
4	3.1 MILES NNE	1/31/2011	274.80		2.32E-02
4	3.1 MILES NNE	2/7/2011	273.90		1.85E-02
4	3.1 MILES NNE	2/14/2011	274.60		2.03E-02
4	3.1 MILES NNE	2/21/2011	272.50		2.05E-02
4	3.1 MILES NNE	2/28/2011	272.60		1.68E-02
4	3.1 MILES NNE	3/7/2011	273.20		2.31E-02
4	3.1 MILES NNE	3/14/2011	271.70		2.17E-02
4	3.1 MILES NNE	3/21/2011	271.50		2.48E-02
4	3.1 MILES NNE	3/28/2011	271.30	1.54E-01	0.0304
4	3.1 MILES NNE	4/4/2011	273.20	1.58E-01	0.0286
4	3.1 MILES NNE	4/11/2011	270.90		3.24E-02
4	3.1 MILES NNE	4/18/2011	270.50		2.16E-02
4	3.1 MILES NNE	4/25/2011	197.50		2.70E-02
4	3.1 MILES NNE	5/2/2011	273.20		2.11E-02
4	3.1 MILES NNE	5/9/2011	275.40		1.98E-02
4	3.1 MILES NNE	5/16/2011	274.10		2.71E-02
4	3.1 MILES NNE	5/23/2011	274.80		1.75E-02
4	3.1 MILES NNE	5/31/2011	312.40		2.12E-02
4	3.1 MILES NNE	6/6/2011	234.20		2.51E-02
4	3.1 MILES NNE	6/13/2011	273.10		2.20E-02
4	3.1 MILES NNE	6/20/2011	272.70		2.07E-02
4	3.1 MILES NNE	6/27/2011	273.90		2.09E-02
4	3.1 MILES NNE	7/5/2011	312.30		1.81E-02
4	3.1 MILES NNE	7/11/2011	238.70		2.37E-02
4	3.1 MILES NNE	7/18/2011	269.80		1.92E-02
4	3.1 MILES NNE	7/25/2011	271.80		2.23E-02
4	3.1 MILES NNE	8/1/2011	272.70		2.28E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
4	3.1 MILES NNE	8/8/2011	272.30		1.95E-02
4	3.1 MILES NNE	8/15/2011	272.70		2.06E-02
4	3.1 MILES NNE	8/22/2011	270.00		1.70E-02
4	3.1 MILES NNE	8/29/2011	274.10		2.34E-02
4	3.1 MILES NNE	9/6/2011	312.80		2.12E-02
4	3.1 MILES NNE	9/12/2011	234.00		2.46E-02
4	3.1 MILES NNE	9/19/2011	274.80		2.23E-02
4	3.1 MILES NNE	9/26/2011	272.40		2.00E-02
4	3.1 MILES NNE	10/3/2011	276.10		2.22E-02
4	3.1 MILES NNE	10/10/2011	275.80		2.18E-02
4	3.1 MILES NNE	10/17/2011	275.00		2.18E-02
4	3.1 MILES NNE	10/25/2011	226.10		2.58E-02
4	3.1 MILES NNE	10/31/2011	328.60		1.61E-02
4	3.1 MILES NNE	11/7/2011	259.80		2.06E-02
4	3.1 MILES NNE	11/14/2011	258.00		1.89E-02
4	3.1 MILES NNE	11/21/2011	257.90		2.00E-02
4	3.1 MILES NNE	11/28/2011	257.90		2.15E-02
4	3.1 MILES NNE	12/5/2011	270.80		2.13E-02
4	3.1 MILES NNE	12/12/2011	271.30		2.02E-02
4	3.1 MILES NNE	12/19/2011	268.60		2.33E-02
4	3.1 MILES NNE	12/27/2011	310.30		1.84E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	1/4/2011	270.40		2.22E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	232.90		2.50E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	1/17/2011	272.90		1.89E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	269.90		2.63E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	1/31/2011	265.50		2.10E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	268.60		2.03E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
5	>12 MILES WNW - PITTSBORO - CONTROL	2/14/2011	265.00		2.66E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	264.00		2.26E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	2/28/2011	263.20		2.75E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	263.70		1.90E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	3/14/2011	260.10		2.33E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	260.80		2.77E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	3/28/2011	260.90	1.16E-01	0.0266
5	>12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.90	1.76E-01	0.0276
5	>12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.40	3.30E-02	0.0177
5	>12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	257.50		2.81E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	4/25/2011	257.50		2.48E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	270.40		2.05E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	5/9/2011	271.80		2.28E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	270.80		1.97E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	5/23/2011	270.70		2.07E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	308.10		1.77E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	6/6/2011	230.90		2.66E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	269.60		1.59E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	6/20/2011	269.00		2.10E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	269.30		2.06E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	307.50		2.42E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	7/11/2011	235.80		2.13E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	264.40		2.07E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	7/25/2011	267.30		2.57E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	8/1/2011	266.10		2.20E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	8/8/2011	266.60		2.23E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	266.00		2.26E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
5	>12 MILES WNW - PITTSBORO - CONTROL	8/22/2011	265.80		2.17E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	8/29/2011	266.90		2.13E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	9/6/2011	303.10		1.90E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	227.60		2.65E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	267.30		2.55E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	264.30		1.71E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	10/3/2011	265.20		2.25E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	264.70		2.60E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	10/17/2011	265.30		2.07E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	10/25/2011	302.90		1.94E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	10/31/2011	231.40		2.68E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	259.80		2.00E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	260.40		2.06E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	11/21/2011	258.80		2.18E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	11/28/2011	259.10		2.34E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	284.50		1.96E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	12/12/2011	283.30		1.57E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	12/19/2011	280.10		2.04E-02
5	>12 MILES WNW - PITTSBORO - CONTROL	12/27/2011	325.80		1.60E-02
26	4.7 MILES S	1/4/2011	268.80		1.91E-02
26	4.7 MILES S	1/10/2011	231.30		1.96E-02
26	4.7 MILES S	1/17/2011	273.70		2.26E-02
26	4.7 MILES S	1/24/2011	271.30		1.93E-02
26	4.7 MILES S	1/31/2011	269.30		2.18E-02
26	4.7 MILES S	2/7/2011	269.70		2.09E-02
26	4.7 MILES S	2/14/2011	267.80		2.00E-02
26	4.7 MILES S	2/21/2011	266.50		2.30E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
26	4.7 MILES S	2/28/2011	265.50		2.29E-02
26	4.7 MILES S	3/7/2011	267.10		2.42E-02
26	4.7 MILES S	3/14/2011	265.60		2.35E-02
26	4.7 MILES S	3/21/2011	265.00		2.63E-02
26	4.7 MILES S	3/28/2011	269.70	1.26E-01	0.0281
26	4.7 MILES S	4/4/2011	260.00	1.66E-01	0.0309
26	4.7 MILES S	4/11/2011	263.40	3.25E-02	0.0169
26	4.7 MILES S	4/18/2011	189.00		3.85E-02
26	4.7 MILES S	4/25/2011	220.70		2.42E-02
26	4.7 MILES S	5/2/2011	270.80		2.07E-02
26	4.7 MILES S	5/9/2011	269.80		2.09E-02
26	4.7 MILES S	5/16/2011	271.20		2.25E-02
26	4.7 MILES S	5/23/2011	266.20		2.52E-02
26	4.7 MILES S	5/31/2011	306.40		2.02E-02
26	4.7 MILES S	6/6/2011	226.70		2.98E-02
26	4.7 MILES S	6/13/2011	267.70		1.78E-02
26	4.7 MILES S	6/20/2011	265.80		2.35E-02
26	4.7 MILES S	6/27/2011	267.40		2.39E-02
26	4.7 MILES S	7/5/2011	299.80		2.07E-02
26	4.7 MILES S	7/11/2011	229.80		2.43E-02
26	4.7 MILES S	7/18/2011	262.20		2.36E-02
26	4.7 MILES S	7/25/2011	262.80		2.41E-02
26	4.7 MILES S	8/1/2011	262.20		2.34E-02
26	4.7 MILES S	8/8/2011	262.30		2.14E-02
26	4.7 MILES S	8/15/2011	265.10		1.91E-02
26	4.7 MILES S	8/22/2011	260.80		1.89E-02
26	4.7 MILES S	8/29/2011	263.70		2.71E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
26	4.7 MILES S	9/6/2011	300.40		2.34E-02
26	4.7 MILES S	9/12/2011	225.10		2.03E-02
26	4.7 MILES S	9/19/2011	267.00		2.25E-02
26	4.7 MILES S	9/26/2011	258.50		2.42E-02
26	4.7 MILES S	10/3/2011	264.90		2.24E-02
26	4.7 MILES S	10/10/2011	264.70		1.75E-02
26	4.7 MILES S	10/17/2011	265.50		2.26E-02
26	4.7 MILES S	10/25/2011	304.00		2.45E-02
26	4.7 MILES S	10/31/2011	230.40		2.75E-02
26	4.7 MILES S	11/7/2011	266.80		2.05E-02
26	4.7 MILES S	11/14/2011	267.40		1.81E-02
26	4.7 MILES S	11/21/2011	265.30		1.87E-02
26	4.7 MILES S	11/28/2011	266.10		2.01E-02
26	4.7 MILES S	12/5/2011	276.80		1.89E-02
26	4.7 MILES S	12/12/2011	277.60		2.37E-02
26	4.7 MILES S	12/19/2011	270.80		2.21E-02
26	4.7 MILES S	12/27/2011	317.40		1.72E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/4/2011	278.40		2.15E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/10/2011	239.10		1.86E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/17/2011	283.60		2.22E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/24/2011	282.40		1.74E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/31/2011	280.70		1.86E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/7/2011	281.20		2.12E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/14/2011	277.70		1.80E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/21/2011	278.40		1.91E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/28/2011	277.60		1.98E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/7/2011	280.00		2.48E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
47	SSW SECTOR 3.4 MI FROM SITE	3/14/2011	280.10		1.61E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/21/2011	280.80		2.54E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/28/2011	286.80	1.41E-01	0.0284
47	SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.40	1.92E-01	0.0329
47	SSW SECTOR 3.4 MI FROM SITE	4/11/2011	281.60		3.16E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/18/2011	264.80		2.60E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/25/2011	273.30		2.06E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/2/2011	271.70		2.06E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/9/2011	270.90		2.11E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/16/2011	273.20		2.72E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/23/2011	268.20		2.09E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/31/2011	309.10		1.67E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/6/2011	229.10		2.25E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/13/2011	270.50		1.69E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/20/2011	268.80		2.12E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/27/2011	270.50		2.07E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/5/2011	295.40		2.58E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/11/2011	192.70		2.84E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/18/2011	263.40		1.92E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/25/2011	265.10		2.19E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/1/2011	265.10		2.02E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/8/2011	265.90		2.02E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/15/2011	269.10		1.54E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/22/2011	264.70		2.25E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/29/2011	267.70		2.53E-02
47	SSW SECTOR 3.4 MI FROM SITE	9/6/2011	306.30		1.50E-02
47	SSW SECTOR 3.4 MI FROM SITE	9/12/2011	229.90		2.02E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
47	SSW SECTOR 3.4 MI FROM SITE	9/19/2011	271.70		2.10E-02
47	SSW SECTOR 3.4 MI FROM SITE	9/26/2011	264.30		1.92E-02
47	SSW SECTOR 3.4 MI FROM SITE	10/3/2011	270.20		2.05E-02
47	SSW SECTOR 3.4 MI FROM SITE	10/10/2011	269.40		2.24E-02
47	SSW SECTOR 3.4 MI FROM SITE	10/17/2011	270.80		1.79E-02
47	SSW SECTOR 3.4 MI FROM SITE	10/25/2011	309.50		1.97E-02
47	SSW SECTOR 3.4 MI FROM SITE	10/31/2011	234.00		2.76E-02
47	SSW SECTOR 3.4 MI FROM SITE	11/7/2011	277.00		1.89E-02
47	SSW SECTOR 3.4 MI FROM SITE	11/14/2011	278.10		2.12E-02
47	SSW SECTOR 3.4 MI FROM SITE	11/21/2011	276.10		2.08E-02
47	SSW SECTOR 3.4 MI FROM SITE	11/28/2011	277.80		2.02E-02
47	SSW SECTOR 3.4 MI FROM SITE	12/5/2011	293.40		2.20E-02
47	SSW SECTOR 3.4 MI FROM SITE	12/12/2011	288.10		1.71E-02
47	SSW SECTOR 3.4 MI FROM SITE	12/19/2011	284.90		2.06E-02
47	SSW SECTOR 3.4 MI FROM SITE	12/27/2011	331.60		2.27E-02
63	0.6 MI SW	1/4/2011	278.00		2.17E-02
63	0.6 MI SW	1/10/2011	241.00		2.40E-02
63	0.6 MI SW	1/17/2011	286.00		1.89E-02
63	0.6 MI SW	1/24/2011	282.50		2.25E-02
63	0.6 MI SW	1/31/2011	276.50		2.30E-02
63	0.6 MI SW	2/7/2011	280.50		2.08E-02
63	0.6 MI SW	2/14/2011	280.10		2.29E-02
63	0.6 MI SW	2/21/2011	275.40		2.10E-02
63	0.6 MI SW	2/28/2011	276.00		2.53E-02
63	0.6 MI SW	3/7/2011	277.70		1.98E-02
63	0.6 MI SW	3/14/2011	276.50		1.97E-02
63	0.6 MI SW	3/21/2011	275.80		1.45E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
63 0.6 MI SW	3/28/2011	277.40	1.11E-01	0.0332	
63 0.6 MI SW	4/4/2011	279.20	1.84E-01	0.0331	
63 0.6 MI SW	4/11/2011	276.70	3.76E-02	0.0199	
63 0.6 MI SW	4/18/2011	274.10			1.86E-02
63 0.6 MI SW	4/25/2011	275.30			2.06E-02
63 0.6 MI SW	5/2/2011	260.60			2.10E-02
63 0.6 MI SW	5/9/2011	263.70			2.20E-02
63 0.6 MI SW	5/16/2011	263.20			1.18E-02
63 0.6 MI SW	5/23/2011	264.90			2.18E-02
63 0.6 MI SW	5/31/2011	305.40			1.87E-02
63 0.6 MI SW	6/6/2011	230.80			2.22E-02
63 0.6 MI SW	6/13/2011	271.30			1.86E-02
63 0.6 MI SW	6/20/2011	273.20			1.67E-02
63 0.6 MI SW	6/27/2011	273.70			2.20E-02
63 0.6 MI SW	7/5/2011	236.30			3.02E-02
63 0.6 MI SW	7/11/2011	224.50			2.87E-02
63 0.6 MI SW	7/18/2011	256.60			2.20E-02
63 0.6 MI SW	7/25/2011	261.60			2.42E-02
63 0.6 MI SW	8/1/2011	266.50			2.06E-02
63 0.6 MI SW	8/8/2011	267.60			2.11E-02
63 0.6 MI SW	8/15/2011	269.30			1.91E-02
63 0.6 MI SW	8/22/2011	270.10			2.12E-02
63 0.6 MI SW	8/29/2011	272.30			2.33E-02
63 0.6 MI SW	9/6/2011	290.80			1.81E-02
63 0.6 MI SW	9/12/2011	220.40			2.80E-02
63 0.6 MI SW	9/19/2011	259.90			1.64E-02
63 0.6 MI SW	9/26/2011	258.70			2.06E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
63	0.6 MI SW	10/3/2011	264.20		2.15E-02
63	0.6 MI SW	10/10/2011	262.30		1.87E-02
63	0.6 MI SW	10/17/2011	261.50		2.12E-02
63	0.6 MI SW	10/25/2011	300.70		2.13E-02
63	0.6 MI SW	10/31/2011	228.90		2.69E-02
63	0.6 MI SW	11/7/2011	262.20		2.19E-02
63	0.6 MI SW	11/14/2011	260.00		1.94E-02
63	0.6 MI SW	11/21/2011	259.80		1.41E-02
63	0.6 MI SW	11/28/2011	260.20		1.89E-02
63	0.6 MI SW	12/5/2011	277.50		1.95E-02
63	0.6 MI SW	12/12/2011	278.60		2.39E-02
63	0.6 MI SW	12/19/2011	274.10		1.98E-02
63	0.6 MI SW	12/27/2011	317.10		1.80E-02
90	0.5 MI SSW	1/4/2011	277.00		1.71E-02
90	0.5 MI SSW	1/10/2011	239.80		2.36E-02
90	0.5 MI SSW	1/17/2011	286.10		1.62E-02
90	0.5 MI SSW	1/24/2011	284.40		1.70E-02
90	0.5 MI SSW	1/31/2011	281.10		1.88E-02
90	0.5 MI SSW	2/7/2011	285.80		1.83E-02
90	0.5 MI SSW	2/14/2011	283.90		2.26E-02
90	0.5 MI SSW	2/21/2011	277.90		1.99E-02
90	0.5 MI SSW	2/28/2011	282.10		2.22E-02
90	0.5 MI SSW	3/7/2011	284.80		2.33E-02
90	0.5 MI SSW	3/14/2011	286.20		2.09E-02
90	0.5 MI SSW	3/21/2011	287.20		2.27E-02
90	0.5 MI SSW	3/28/2011	292.00	1.64E-01	0.0281
90	0.5 MI SSW	4/4/2011	301.40	1.84E-01	0.0324

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
90 0.5 MI SSW	4/11/2011	295.20	4.85E-02	0.0173	
90 0.5 MI SSW	4/18/2011	296.30			2.04E-02
90 0.5 MI SSW	4/25/2011	296.60			1.98E-02
90 0.5 MI SSW	5/2/2011	270.80			2.14E-02
90 0.5 MI SSW	5/9/2011	272.90			2.50E-02
90 0.5 MI SSW	5/16/2011	272.00			1.98E-02
90 0.5 MI SSW	5/23/2011	272.40			1.94E-02
90 0.5 MI SSW	5/31/2011	311.10			1.68E-02
90 0.5 MI SSW	6/6/2011	233.20			2.26E-02
90 0.5 MI SSW	6/13/2011	272.50			2.09E-02
90 0.5 MI SSW	6/20/2011	272.90			2.28E-02
90 0.5 MI SSW	6/27/2011	272.80			2.09E-02
90 0.5 MI SSW	7/5/2011	311.90			2.10E-02
90 0.5 MI SSW	7/11/2011	238.10			2.47E-02
90 0.5 MI SSW	7/18/2011	269.70			2.09E-02
90 0.5 MI SSW	7/25/2011	271.30			2.07E-02
90 0.5 MI SSW	8/1/2011	272.70			2.17E-02
90 0.5 MI SSW	8/8/2011	272.00			2.39E-02
90 0.5 MI SSW	8/15/2011	272.50			2.34E-02
90 0.5 MI SSW	8/22/2011	271.10			2.15E-02
90 0.5 MI SSW	8/29/2011	273.50			1.75E-02
90 0.5 MI SSW	9/6/2011	284.10			1.79E-02
90 0.5 MI SSW	9/12/2011	214.50			3.18E-02
90 0.5 MI SSW	9/19/2011	251.60			2.20E-02
90 0.5 MI SSW	9/26/2011	248.90			2.59E-02
90 0.5 MI SSW	10/3/2011	254.10			2.08E-02
90 0.5 MI SSW	10/10/2011	252.20			2.26E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
90	0.5 MI SSW	10/17/2011	251.50		2.47E-02
90	0.5 MI SSW	10/25/2011	288.50		2.09E-02
90	0.5 MI SSW	10/31/2011	219.00		2.57E-02
90	0.5 MI SSW	11/7/2011	238.90		2.50E-02
90	0.5 MI SSW	11/14/2011	240.90		2.29E-02
90	0.5 MI SSW	11/21/2011	240.00		2.26E-02
90	0.5 MI SSW	11/28/2011	242.70		2.13E-02
90	0.5 MI SSW	12/5/2011	261.70		2.24E-02
90	0.5 MI SSW	12/12/2011	264.30		1.79E-02
90	0.5 MI SSW	12/19/2011	261.70		2.19E-02
90	0.5 MI SSW	12/27/2011	304.60		2.26E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/4/2011	272.60		2.35E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/10/2011	233.90		2.02E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/17/2011	275.30		2.47E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/24/2011	274.00		2.10E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	1/31/2011	271.00		1.73E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/7/2011	273.60		2.46E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/14/2011	272.20		2.41E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/21/2011	271.20		2.53E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/28/2011	270.90		2.40E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/7/2011	270.80		2.68E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/14/2011	269.50		2.28E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/21/2011	270.10		2.02E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/28/2011	268.50	1.30E-01	0.0303
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.70	1.84E-01	0.0294
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.60	4.28E-02	0.021
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/18/2011	267.30		2.72E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/25/2011	267.40		2.78E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/2/2011	279.40		2.32E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/9/2011	261.80		2.35E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	260.00		2.53E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/23/2011	261.90		2.66E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/31/2011	297.30		1.94E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/6/2011	225.50		2.97E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/13/2011	266.50		2.35E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/20/2011	266.60		2.54E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	6/27/2011	263.30		2.21E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/5/2011	299.00		2.44E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/11/2011	233.00		2.59E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/18/2011	267.70		2.48E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	7/25/2011	272.30		2.06E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/1/2011	281.30		1.94E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/8/2011	286.80		1.88E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/15/2011	279.80		1.98E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/22/2011	292.00		2.06E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/29/2011	290.80		2.41E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/6/2011	291.30		1.68E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/12/2011	220.30		2.82E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/19/2011	261.70		2.11E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	9/26/2011	260.50		2.28E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/3/2011	264.10		2.64E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/10/2011	265.50		2.51E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/17/2011	265.10		2.47E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/25/2011	304.60		2.19E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	10/31/2011	230.40		3.01E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/7/2011	273.80		1.56E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	271.30		2.30E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/21/2011	270.50		2.51E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/28/2011	270.40		2.12E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/5/2011	270.60		2.40E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/12/2011	270.80		2.66E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/19/2011	268.80		2.26E-02
91	1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	12/27/2011	310.40		1.96E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	1/3/2011	4.00	5.61E-01	3.31E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	1/17/2011	4.00			5.06E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/31/2011	4.00	4.74E-01	3.24E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	4.00			5.87E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/28/2011	4.00	9.78E-01	5.41E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	4.00			6.13E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/28/2011	4.00	1.65E+00	5.72E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	4.00	8.27E-01	5.11E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	4/25/2011	4.00	9.84E-01	3.98E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	5/9/2011	4.00			5.78E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/23/2011	4.00			5.12E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/6/2011	4.00	5.59E-01	3.64E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	6/20/2011	4.00	5.70E-01	3.56E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	7/4/2011	4.00			6.64E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/18/2011	4.00			5.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/1/2011	4.00			5.45E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/15/2011	4.00			5.57E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/29/2011	4.00			7.21E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	4.00			5.58E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	9/26/2011	4.00			5.63E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/10/2011	4.00			5.75E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/24/2011	4.00			4.63E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/7/2011	4.00	8.66E-01	4.14E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	11/21/2011	4.00	6.85E-01	3.99E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	12/5/2011	4.00			6.30E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/19/2011	4.00			5.53E-01
40 LILLINGTON - CAPE FEAR RIVER	1/3/2011	4.00			5.27E-01
40 LILLINGTON - CAPE FEAR RIVER	1/17/2011	4.00			5.18E-01
40 LILLINGTON - CAPE FEAR RIVER	1/31/2011	4.00			4.74E-01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	4.00			4.97E-01
40 LILLINGTON - CAPE FEAR RIVER	2/28/2011	4.00			4.69E-01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	4.00	6.18E-01	4.65E-01	
40 LILLINGTON - CAPE FEAR RIVER	3/28/2011	4.00	1.45E+00	4.75E-01	
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	4.00	6.18E-01	4.38E-01	
40 LILLINGTON - CAPE FEAR RIVER	4/25/2011	4.00			6.10E-01
40 LILLINGTON - CAPE FEAR RIVER	5/9/2011	4.00			5.12E-01
40 LILLINGTON - CAPE FEAR RIVER	5/23/2011	4.00			6.42E-01
40 LILLINGTON - CAPE FEAR RIVER	6/6/2011	4.00			5.57E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	6/20/2011	4.00			5.38E-01
40 LILLINGTON - CAPE FEAR RIVER	7/4/2011	4.00			5.99E-01
40 LILLINGTON - CAPE FEAR RIVER	7/18/2011	4.00			4.74E-01
40 LILLINGTON - CAPE FEAR RIVER	8/1/2011	4.00			4.60E-01
40 LILLINGTON - CAPE FEAR RIVER	8/15/2011	4.00			4.61E-01
40 LILLINGTON - CAPE FEAR RIVER	8/29/2011	4.00			7.72E-01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	4.00			4.66E-01
40 LILLINGTON - CAPE FEAR RIVER	9/26/2011	4.00			4.80E-01
40 LILLINGTON - CAPE FEAR RIVER	10/10/2011	4.00			4.95E-01
40 LILLINGTON - CAPE FEAR RIVER	10/24/2011	4.00			4.86E-01
40 LILLINGTON - CAPE FEAR RIVER	11/7/2011	4.00			5.59E-01
40 LILLINGTON - CAPE FEAR RIVER	11/21/2011	4.00			5.93E-01
40 LILLINGTON - CAPE FEAR RIVER	12/5/2011	4.00	6.63E-01	3.75E-01	
40 LILLINGTON - CAPE FEAR RIVER	12/19/2011	4.00	7.68E-01	4.69E-01	
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/3/2011	4.00			5.11E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/17/2011	4.00			5.20E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/31/2011	4.00			4.72E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	4.00			5.02E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/28/2011	4.00			4.75E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	4.00			5.20E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/28/2011	4.00			5.05E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	4.00			5.73E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/25/2011	4.00			5.43E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/9/2011	4.00			4.89E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/23/2011	4.00			7.49E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/6/2011	4.00			5.57E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/20/2011	4.00			4.74E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/4/2011	4.00			5.18E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/18/2011	4.00			5.73E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/1/2011	4.00			4.76E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/15/2011	4.00			4.91E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/29/2011	4.00			6.53E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	4.00			4.77E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/26/2011	4.00			6.81E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/10/2011	4.00			4.81E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/24/2011	4.00			5.14E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/7/2011	4.00			5.18E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/21/2011	4.00			4.74E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/5/2011	4.00			5.34E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/19/2011	4.00			5.53E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
5 >12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	4.00	<LLD		3.60E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	4.00	<LLD		3.64E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	4.00	<LLD		4.02E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	4.00	<LLD		3.37E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	4.00	<LLD		3.46E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	4.00	<LLD		3.56E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	4.00	1.48E+00	3.94E-01	
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	4.00	<LLD		3.39E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	4.00	<LLD		3.51E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	4.00	<LLD		5.13E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	4.00	<LLD		3.44E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	4.00	<LLD		3.36E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	4.00	<LLD		4.62E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	4.00	<LLD		3.94E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	4.00	<LLD		3.18E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/1/2011	4.00	<LLD		3.33E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	4.00	<LLD		4.61E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/31/2011	4.00	<LLD		3.97E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	4.00	<LLD		3.92E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	4.00	<LLD		3.71E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	4.00	<LLD		3.46E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	4.00	<LLD		3.50E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	3.60	<LLD		4.00E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	4.00	<LLD		5.13E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	4.00	<LLD		3.46E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	4.00	<LLD		3.59E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	4.00	<LLD		3.93E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/5/2011	4.00	<LLD		4.89E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/18/2011	4.00	<LLD		3.41E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	4.00	<LLD		3.75E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	4.00	<LLD		4.76E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/12/2011	4.00	<LLD		3.32E-01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	4.00	<LLD		3.06E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
26 4.7 MILES S	3/14/2011	4.00			5.15E-01
26 4.7 MILES S	3/28/2011	4.00			8.43E-01
26 4.7 MILES S	4/11/2011	4.00			4.92E-01
26 4.7 MILES S	12/5/2011	4.00			5.76E-01
26 4.7 MILES S	12/19/2011	4.00			5.37E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/3/2011	4.00	5.61E-01	3.31E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	1/17/2011	4.00			5.06E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/31/2011	4.00	4.74E-01	3.24E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	4.00			5.87E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/28/2011	4.00	9.78E-01	5.41E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	4.00			6.13E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/28/2011	4.00	1.65E+00	5.72E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	4.00	8.27E-01	5.11E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	4/25/2011	4.00	9.84E-01	3.98E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	5/9/2011	4.00			5.78E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/23/2011	4.00			5.12E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/6/2011	4.00	5.59E-01	3.64E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	6/20/2011	4.00	5.70E-01	3.56E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	7/4/2011	4.00			6.64E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/18/2011	4.00			5.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/1/2011	4.00			5.45E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/15/2011	4.00			5.57E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	8/29/2011	4.00			7.21E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	4.00			5.58E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/26/2011	4.00			5.63E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/10/2011	4.00			5.75E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/24/2011	4.00			4.63E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/7/2011	4.00	8.66E-01	4.14E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	11/21/2011	4.00	6.85E-01	3.99E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	12/5/2011	4.00			6.30E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/19/2011	4.00			5.53E-01
40 LILLINGTON - CAPE FEAR RIVER	1/3/2011	4.00			5.27E-01
40 LILLINGTON - CAPE FEAR RIVER	1/17/2011	4.00			5.18E-01
40 LILLINGTON - CAPE FEAR RIVER	1/31/2011	4.00			4.74E-01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	4.00			4.97E-01
40 LILLINGTON - CAPE FEAR RIVER	2/28/2011	4.00			4.69E-01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	4.00	6.18E-01	4.65E-01	
40 LILLINGTON - CAPE FEAR RIVER	3/28/2011	4.00	1.45E+00	4.75E-01	
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	4.00	6.18E-01	4.38E-01	
40 LILLINGTON - CAPE FEAR RIVER	4/25/2011	4.00			6.10E-01
40 LILLINGTON - CAPE FEAR RIVER	5/9/2011	4.00			5.12E-01
40 LILLINGTON - CAPE FEAR RIVER	5/23/2011	4.00			6.42E-01
40 LILLINGTON - CAPE FEAR RIVER	6/6/2011	4.00			5.57E-01
40 LILLINGTON - CAPE FEAR RIVER	6/20/2011	4.00			5.38E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	7/4/2011	4.00			5.99E-01
40 LILLINGTON - CAPE FEAR RIVER	7/18/2011	4.00			4.74E-01
40 LILLINGTON - CAPE FEAR RIVER	8/1/2011	4.00			4.60E-01
40 LILLINGTON - CAPE FEAR RIVER	8/15/2011	4.00			4.61E-01
40 LILLINGTON - CAPE FEAR RIVER	8/29/2011	4.00			7.72E-01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	4.00			4.66E-01
40 LILLINGTON - CAPE FEAR RIVER	9/26/2011	4.00			4.80E-01
40 LILLINGTON - CAPE FEAR RIVER	10/10/2011	4.00			4.95E-01
40 LILLINGTON - CAPE FEAR RIVER	10/24/2011	4.00			4.86E-01
40 LILLINGTON - CAPE FEAR RIVER	11/7/2011	4.00			5.59E-01
40 LILLINGTON - CAPE FEAR RIVER	11/21/2011	4.00			5.93E-01
40 LILLINGTON - CAPE FEAR RIVER	12/5/2011	4.00	6.63E-01	3.75E-01	
40 LILLINGTON - CAPE FEAR RIVER	12/19/2011	4.00	7.68E-01	4.69E-01	

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	0.005	<LLD		2.28E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	0.005	<LLD		2.25E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	0.005	<LLD		2.29E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	0.005	<LLD		2.23E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	0.005	<LLD		2.24E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	0.005	<LLD		2.26E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	0.005	<LLD		2.27E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	0.005	<LLD		2.24E+02
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	0.005	<LLD		2.25E+02
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	0.005	<LLD		2.26E+02
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	0.005	<LLD		2.29E+02
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	0.005	<LLD		2.30E+02
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	0.005	<LLD		2.26E+02
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	0.005	<LLD		2.29E+02
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	0.005	<LLD		2.30E+02
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	0.005	<LLD		2.28E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	0.005	3.76E+03	1.72E+02	2.28E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	0.005	4.07E+03	1.73E+02	2.25E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Analysis: Tritium

Quantity: Liters

Concentration (Activity): pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	0.005	4.00E+03	1.73E+02	2.28E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	0.005	2.55E+03	1.60E+02	2.25E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	0.005	1.61E+03	1.53E+02	2.26E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	0.005	1.85E+03	1.57E+02	2.29E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	0.005	2.19E+03	1.60E+02	2.30E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	0.005	2.69E+03	1.62E+02	2.25E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	0.005	2.22E+03	1.61E+02	2.30E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	0.005	1.51E+03	1.53E+02	2.29E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	0.005	2.16E+03	1.59E+02	2.28E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	0.005	3.18E+03	1.67E+02	2.27E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
57 0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	2/23/2011	0.005	<LLD		2.27E+02
57 0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	0.005	<LLD		2.24E+02
57 0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	0.005	<LLD		2.24E+02
57 0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	0.005	<LLD		2.26E+02
59 0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	0.005	<LLD		2.28E+02
59 0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	0.005	<LLD		2.24E+02
59 0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	0.005	<LLD		2.22E+02
59 0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	0.005	<LLD		2.27E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	0.005	<LLD		2.29E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	0.005	<LLD		2.24E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	0.005	<LLD		2.23E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	0.005	<LLD		2.28E+02
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	0.005	<LLD		2.28E+02
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	0.005	<LLD		2.29E+02
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	0.005	<LLD		2.24E+02
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	0.005	<LLD		2.28E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	0.005	<LLD		2.28E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	0.005	<LLD		2.25E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	0.005	<LLD		2.23E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	0.005	<LLD		2.28E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	0.005	<LLD		2.29E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	0.005	<LLD		2.27E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	0.005	<LLD		2.22E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	0.005	<LLD		2.28E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
71	0.3 MI SE (S OF SWITCH YARD)	2/22/2011	0.005	<LLD	2.29E+02	
71	0.3 MI SE (S OF SWITCH YARD)	5/12/2011	0.005	<LLD	2.24E+02	
71	0.3 MI SE (S OF SWITCH YARD)	8/18/2011	0.005	<LLD	2.22E+02	
71	0.3 MI SE (S OF SWITCH YARD)	11/2/2011	0.005	<LLD	2.27E+02	
72	0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	0.005	<LLD	2.29E+02	
72	0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	0.005	<LLD	2.24E+02	
72	0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	0.005	<LLD	2.23E+02	
72	0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	0.005	<LLD	2.26E+02	
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCTURE)	2/23/2011	0.005	<LLD	2.28E+02	
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCTURE)	5/12/2011	0.005	<LLD	2.24E+02	
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCTURE)	8/18/2011	0.005	<LLD	2.24E+02	
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCTURE)	11/3/2011	0.005	<LLD	2.28E+02	
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	2/22/2011	0.005	<LLD	2.29E+02	
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	0.005	<LLD	2.25E+02	
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	0.005	<LLD	2.23E+02	
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	0.005	<LLD	2.28E+02	
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	0.005	<LLD	2.29E+02	
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	0.005	<LLD	2.24E+02	
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	0.005	<LLD	2.22E+02	
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	11/2/2011	0.005	<LLD	2.28E+02	
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	0.005	<LLD	2.28E+02	
76	0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	0.005	<LLD	2.24E+02	
76	0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	0.005	6.28E+02	1.41E+02	2.22E+02
76	0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	0.005	6.69E+02	1.44E+02	2.26E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
77 0.4 MI S - BD-MW 1	2/21/2011	0.005	7.81E+02	1.46E+02	2.29E+02
77 0.4 MI S - BD-MW 1	5/19/2011	0.005	5.50E+02	1.44E+02	2.29E+02
77 0.4 MI S - BD-MW 1	8/17/2011	0.005	6.15E+02	1.44E+02	2.27E+02
77 0.4 MI S - BD-MW 1	11/2/2011	0.005	6.22E+02	1.43E+02	2.26E+02
78 0.5 MI S - BD-MW 2	2/21/2011	0.005	5.91E+02	1.45E+02	2.29E+02
78 0.5 MI S - BD-MW 2	5/19/2011	0.005	6.23E+02	1.45E+02	2.29E+02
78 0.5 MI S - BD-MW 2	8/17/2011	0.005	3.78E+02	1.42E+02	2.28E+02
78 0.5 MI S - BD-MW 2	11/2/2011	0.005	5.99E+02	1.43E+02	2.26E+02
79 0.5 MI S - BD-MW 3	2/21/2011	0.005	6.73E+02	1.45E+02	2.29E+02
79 0.5 MI S - BD-MW 3	5/19/2011	0.005	7.06E+02	1.46E+02	2.29E+02
79 0.5 MI S - BD-MW 3	8/17/2011	0.005	7.73E+02	1.46E+02	2.28E+02
79 0.5 MI S - BD-MW 3	11/2/2011	0.005	6.23E+02	1.43E+02	2.26E+02
80 0.6 MI S - BD-MW 5	2/21/2011	0.005	7.51E+02	1.46E+02	2.29E+02
80 0.6 MI S - BD-MW 5	5/19/2011	0.005	7.70E+02	1.46E+02	2.28E+02
80 0.6 MI S - BD-MW 5	8/17/2011	0.005	7.06E+02	1.44E+02	2.26E+02
80 0.6 MI S - BD-MW 5	11/2/2011	0.005	8.96E+02	1.46E+02	2.25E+02
81 0.6 MI S - BD-MW 7	2/21/2011	0.005	6.13E+02	1.45E+02	2.29E+02
81 0.6 MI S - BD-MW 7	5/19/2011	0.005	5.36E+02	1.43E+02	2.28E+02
81 0.6 MI S - BD-MW 7	8/17/2011	0.005	6.76E+02	1.45E+02	2.28E+02
81 0.6 MI S - BD-MW 7	11/2/2011	0.005	4.96E+02	1.42E+02	2.25E+02
82 0.6 MI S - BD-MW 8	2/21/2011	0.005	<LLD		2.29E+02
82 0.6 MI S - BD-MW 8	5/19/2011	0.005	<LLD		2.28E+02
82 0.6 MI S - BD-MW 8	8/17/2011	0.005	<LLD		2.26E+02
82 0.6 MI S - BD-MW 8	11/2/2011	0.005	<LLD		2.28E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
83 1.6 MI SSW - BD-MW 16	2/21/2011	0.005	1.20E+04	2.29E+02	2.29E+02
83 1.6 MI SSW - BD-MW 16	5/19/2011	0.003	8.43E+03	1.39E+03	1.66E+03
83 1.6 MI SSW - BD-MW 16	8/17/2011	0.005	1.17E+04	2.26E+02	2.25E+02
83 1.6 MI SSW - BD-MW 16	11/2/2011	0.003	1.59E+04	1.69E+03	1.67E+03
83 1.6 MI SSW - BD-MW 16	12/15/2011	0.003	1.41E+04	1.62E+03	1.66E+03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
26 4.7 MILES S	1/14/2011	0.005	4.98E+03	1.81E+02	2.28E+02
26 4.7 MILES S	2/14/2011	0.005	5.61E+03	1.85E+02	2.25E+02
26 4.7 MILES S	3/14/2011	0.005	4.53E+03	1.78E+02	2.28E+02
26 4.7 MILES S	4/11/2011	0.005	4.39E+03	1.76E+02	2.25E+02
26 4.7 MILES S	5/13/2011	0.005	3.99E+03	1.74E+02	2.28E+02
26 4.7 MILES S	6/13/2011	0.005	3.68E+03	1.72E+02	2.30E+02
26 4.7 MILES S	7/11/2011	0.005	3.85E+03	1.73E+02	2.29E+02
26 4.7 MILES S	8/11/2011	0.005	3.78E+03	1.71E+02	2.25E+02
26 4.7 MILES S	9/12/2011	0.005	4.09E+03	1.75E+02	2.29E+02
26 4.7 MILES S	10/13/2011	0.005	3.96E+03	1.74E+02	2.29E+02
26 4.7 MILES S	11/14/2011	0.005	4.16E+03	1.75E+02	2.28E+02
26 4.7 MILES S	12/12/2011	0.005	5.27E+03	1.84E+02	2.28E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	0.005	<LLD		2.28E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	0.005	<LLD		2.25E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	0.005	<LLD		2.29E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	0.005	<LLD		2.23E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	0.005	<LLD		2.24E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	0.005	<LLD		2.26E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	0.005	<LLD		2.30E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	0.005	<LLD		2.27E+02
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	0.005	<LLD		2.28E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	0.005	<LLD		2.24E+02
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	0.005	<LLD		2.25E+02
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	0.005	<LLD		2.26E+02
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	0.005	<LLD		2.29E+02
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	0.005	<LLD		2.30E+02
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	0.005	<LLD		2.26E+02
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	0.005	<LLD		2.29E+02
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	0.005	<LLD		2.30E+02
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	0.005	<LLD		2.28E+02
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	0.005	<LLD		2.28E+02

2011 HNP
Radiological Environmental Monitoring Gamma Isotopic Report

Comments

- None

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
1 2.6 MILES N	2/14/2011	3661.1	PB-214	7.95E-03	2.89E-03
1 2.6 MILES N	2/14/2011	3661.1	BI-214	7.54E-03	4.02E-03
1 2.6 MILES N	2/14/2011	3661.1	TL-208	1.39E-03	1.09E-03
1 2.6 MILES N	2/14/2011	3661.1	BE-7	1.24E-01	2.60E-02
1 2.6 MILES N	3/24/2011	282.3	RA-226	2.47E-01	1.82E-01
1 2.6 MILES N	3/24/2011	282.3	BE-7	1.91E-01	1.13E-01
1 2.6 MILES N	3/24/2011	282.3	K-40	5.28E-01	2.49E-01
1 2.6 MILES N	3/24/2011	282.3	I-131	3.20E-02	1.61E-02
1 2.6 MILES N	4/4/2011	283.7	BE-7	1.86E-01	9.16E-02
1 2.6 MILES N	4/4/2011	283.7	TH-234	3.13E-01	1.85E-01
1 2.6 MILES N	4/4/2011	283.7	RA-226	1.93E-01	1.49E-01
1 2.6 MILES N	4/4/2011	283.7	BI-214	4.27E-02	2.08E-02
1 2.6 MILES N	4/4/2011	283.7	I-131	1.82E-02	1.66E-02
1 2.6 MILES N	4/4/2011	283.7	K-40	4.13E-01	1.44E-01
1 2.6 MILES N	4/4/2011	283.7	PB-212	4.89E-02	2.08E-02
1 2.6 MILES N	4/11/2011	281.5	K-40	7.29E-01	3.05E-01
1 2.6 MILES N	4/11/2011	281.5	PB-212	2.78E-02	1.53E-02
1 2.6 MILES N	4/11/2011	281.5	PB-214	3.31E-02	2.85E-02
1 2.6 MILES N	5/16/2011	3581.8	BE-7	1.14E-01	2.87E-02
1 2.6 MILES N	5/16/2011	3581.8	K-40	3.68E-02	1.93E-02
1 2.6 MILES N	5/16/2011	3581.8	PB-214	1.02E-02	2.96E-03
1 2.6 MILES N	5/16/2011	3581.8	BI-214	3.34E-03	3.10E-03
1 2.6 MILES N	8/15/2011	3353.8	BE-7	1.57E-01	3.36E-02
1 2.6 MILES N	8/15/2011	3353.8	PB-214	1.51E-02	3.82E-03

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
1 2.6 MILES N	8/15/2011	3353.8	BI-214	1.36E-02	4.30E-03
1 2.6 MILES N	8/15/2011	3353.8	PB-212	3.05E-03	2.19E-03
1 2.6 MILES N	8/15/2011	3353.8	K-40	9.06E-02	3.05E-02
1 2.6 MILES N	11/14/2011	3478.1	K-40	4.85E-02	1.93E-02
1 2.6 MILES N	11/14/2011	3478.1	BE-7	1.17E-01	3.26E-02
2 1.4 MILES NNE	2/14/2011	3383.7	BI-214	1.77E-02	4.49E-03
2 1.4 MILES NNE	2/14/2011	3383.7	BE-7	1.05E-01	3.03E-02
2 1.4 MILES NNE	2/14/2011	3383.7	K-40	5.69E-02	2.11E-02
2 1.4 MILES NNE	2/14/2011	3383.7	PB-214	1.81E-02	4.42E-03
2 1.4 MILES NNE	3/24/2011	260.4	PB-214	5.24E-01	7.55E-02
2 1.4 MILES NNE	3/24/2011	260.4	BI-214	3.03E-01	6.48E-02
2 1.4 MILES NNE	3/24/2011	260.4	K-40	4.93E-01	1.85E-01
2 1.4 MILES NNE	3/24/2011	260.4	PB-212	3.55E-02	1.81E-02
2 1.4 MILES NNE	3/24/2011	260.4	I-131	2.97E-02	1.95E-02
2 1.4 MILES NNE	4/4/2011	261.8	PB-212	2.34E-02	2.61E-02
2 1.4 MILES NNE	4/4/2011	261.8	BI-214	7.27E-02	2.94E-02
2 1.4 MILES NNE	4/4/2011	261.8	TL-208	1.98E-02	1.22E-02
2 1.4 MILES NNE	4/4/2011	261.8	TH-234	4.71E-01	2.85E-01
2 1.4 MILES NNE	4/4/2011	261.8	I-131	3.22E-02	1.83E-02
2 1.4 MILES NNE	4/4/2011	261.8	K-40	3.43E-01	1.53E-01
2 1.4 MILES NNE	4/4/2011	261.8	BE-7	1.54E-01	7.15E-02
2 1.4 MILES NNE	4/4/2011	261.8	PB-214	7.67E-02	2.61E-02
2 1.4 MILES NNE	4/11/2011	259.4	PB-214	6.73E-02	2.47E-02
2 1.4 MILES NNE	4/11/2011	259.4	BE-7	1.56E-01	1.33E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
2 1.4 MILES NNE	4/11/2011	259.4	BI-214	4.92E-02	1.95E-02
2 1.4 MILES NNE	4/11/2011	259.4	TH-234	2.92E-01	2.22E-01
2 1.4 MILES NNE	4/11/2011	259.4	K-40	3.55E-01	2.21E-01
2 1.4 MILES NNE	5/16/2011	3513.4	BE-7	1.30E-01	3.62E-02
2 1.4 MILES NNE	8/15/2011	3566.7	BI-214	5.33E-03	2.29E-03
2 1.4 MILES NNE	8/15/2011	3566.7	PB-214	6.60E-03	2.93E-03
2 1.4 MILES NNE	8/15/2011	3566.7	PB-212	1.44E-03	1.34E-03
2 1.4 MILES NNE	8/15/2011	3566.7	BE-7	1.22E-01	2.90E-02
2 1.4 MILES NNE	8/15/2011	3566.7	TH-234	2.33E-02	1.60E-02
2 1.4 MILES NNE	11/14/2011	3661.8	BE-7	1.25E-01	3.07E-02
2 1.4 MILES NNE	11/14/2011	3661.8	K-40	4.61E-02	2.25E-02
4 3.1 MILES NNE	2/14/2011	3518.4	K-40	8.60E-02	2.29E-02
4 3.1 MILES NNE	2/14/2011	3518.4	BI-214	3.31E-03	2.32E-03
4 3.1 MILES NNE	2/14/2011	3518.4	BE-7	1.07E-01	2.80E-02
4 3.1 MILES NNE	3/24/2011	271.3	K-40	5.09E-01	1.83E-01
4 3.1 MILES NNE	3/24/2011	271.3	I-131	3.26E-02	2.16E-02
4 3.1 MILES NNE	3/24/2011	271.3	PB-212	3.44E-02	2.25E-02
4 3.1 MILES NNE	3/24/2011	271.3	PB-214	5.62E-01	7.17E-02
4 3.1 MILES NNE	3/24/2011	271.3	BI-214	4.42E-01	7.04E-02
4 3.1 MILES NNE	4/4/2011	273.2	TH-234	2.53E-01	2.14E-01
4 3.1 MILES NNE	4/4/2011	273.2	BE-7	2.36E-01	9.99E-02
4 3.1 MILES NNE	4/4/2011	273.2	TL-208	1.41E-02	1.28E-02
4 3.1 MILES NNE	4/4/2011	273.2	K-40	4.90E-01	1.79E-01
4 3.1 MILES NNE	4/4/2011	273.2	BI-214	4.04E-02	2.26E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
4 3.1 MILES NNE	4/11/2011	270.9	PB-212	3.74E-02	1.62E-02
4 3.1 MILES NNE	4/11/2011	270.9	TL-208	1.69E-02	1.02E-02
4 3.1 MILES NNE	4/11/2011	270.9	K-40	5.30E-01	2.21E-01
4 3.1 MILES NNE	4/11/2011	270.9	RA-226	3.72E-01	1.75E-01
4 3.1 MILES NNE	4/11/2011	270.9	PB-214	8.07E-02	2.21E-02
4 3.1 MILES NNE	4/11/2011	270.9	BI-214	7.53E-02	3.18E-02
4 3.1 MILES NNE	5/16/2011	3475.9	BE-7	1.53E-01	3.16E-02
4 3.1 MILES NNE	5/16/2011	3475.9	K-40	4.65E-02	2.29E-02
4 3.1 MILES NNE	8/15/2011	3548.4	BE-7	1.19E-01	2.97E-02
4 3.1 MILES NNE	8/15/2011	3548.4	TH-234	4.16E-02	2.02E-02
4 3.1 MILES NNE	8/15/2011	3548.4	RA-226	4.41E-02	3.05E-03
4 3.1 MILES NNE	8/15/2011	3548.4	PB-214	7.35E-03	2.43E-03
4 3.1 MILES NNE	8/15/2011	3548.4	BI-214	5.59E-03	3.01E-03
4 3.1 MILES NNE	11/14/2011	3536.2	RA-226	2.26E-02	1.58E-02
4 3.1 MILES NNE	11/14/2011	3536.2	BE-7	1.32E-01	3.06E-02
4 3.1 MILES NNE	11/14/2011	3536.2	PB-214	5.73E-03	2.96E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	2/14/2011	3417.9	BE-7	8.82E-02	2.45E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/14/2011	3417.9	PB-214	4.77E-03	1.80E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	K-40	5.41E-01	1.94E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	I-131	2.57E-02	1.64E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	BE-7	1.67E-01	1.19E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	TL-208	2.21E-02	1.47E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	PB-212	7.11E-02	2.16E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	BI-214	3.94E-01	7.38E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	3/24/2011	260.9	PB-214	4.29E-01	6.59E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	PB-212	2.65E-02	1.84E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	PB-214	6.15E-02	2.76E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	K-40	3.94E-01	1.95E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	I-131	4.13E-02	1.97E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	BI-214	5.50E-02	2.49E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	261.9	BE-7	1.34E-01	8.51E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	BI-214	6.88E-02	2.77E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	TH-234	5.56E-01	2.76E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	BE-7	1.44E-01	9.03E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	PB-214	7.57E-02	3.28E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	PB-212	3.06E-02	1.82E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/11/2011	260.4	K-40	6.46E-01	2.12E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	3467.9	K-40	7.95E-02	2.54E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	3467.9	BE-7	1.03E-01	3.89E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	3468.7	BE-7	1.09E-01	2.74E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	3468.7	BI-214	3.31E-03	2.78E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	3468.7	K-40	6.82E-02	2.34E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	3541.3	K-40	8.02E-02	2.52E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	3541.3	BI-214	4.37E-03	2.91E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	3541.3	PB-212	1.82E-03	1.72E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	11/14/2011	3541.3	BE-7	1.18E-01	3.03E-02
26 4.7 MILES S	2/14/2011	3451.3	RA-226	3.94E-02	1.62E-02
26 4.7 MILES S	2/14/2011	3451.3	PB-214	3.87E-03	2.31E-03

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
26 4.7 MILES S	2/14/2011	3451.3	K-40	4.09E-02	1.76E-02
26 4.7 MILES S	2/14/2011	3451.3	BE-7	6.35E-02	3.32E-02
26 4.7 MILES S	2/14/2011	3451.3	BI-214	8.74E-02	3.27E-02
26 4.7 MILES S	2/14/2011	3451.3	PB-212	3.68E-03	1.75E-03
26 4.7 MILES S	3/25/2011	269.7	K-40	3.88E-01	1.58E-01
26 4.7 MILES S	3/25/2011	269.7	RA-226	2.74E-01	1.88E-01
26 4.7 MILES S	3/25/2011	269.7	I-131	2.71E-02	1.57E-02
26 4.7 MILES S	3/25/2011	269.7	PB-214	2.58E-01	4.62E-02
26 4.7 MILES S	3/25/2011	269.7	PB-212	4.24E-02	1.92E-02
26 4.7 MILES S	3/25/2011	269.7	BI-214	2.47E-01	5.36E-02
26 4.7 MILES S	4/4/2011	260	K-40	6.49E-01	2.38E-01
26 4.7 MILES S	4/4/2011	260	I-131	2.78E-02	2.05E-02
26 4.7 MILES S	4/4/2011	260	BI-214	4.20E-02	2.39E-02
26 4.7 MILES S	4/11/2011	263.4	PB-214	6.45E-02	2.81E-02
26 4.7 MILES S	4/11/2011	263.4	BI-214	6.46E-02	3.06E-02
26 4.7 MILES S	4/11/2011	263.4	PB-212	3.36E-02	1.56E-02
26 4.7 MILES S	4/11/2011	263.4	BE-7	1.89E-01	1.20E-01
26 4.7 MILES S	4/11/2011	263.4	K-40	7.65E-01	2.52E-01
26 4.7 MILES S	5/16/2011	3345.1	PB-214	5.91E-02	7.75E-03
26 4.7 MILES S	5/16/2011	3345.1	BE-7	1.76E-01	4.58E-02
26 4.7 MILES S	5/16/2011	3345.1	PB-212	2.69E-03	1.84E-03
26 4.7 MILES S	5/16/2011	3345.1	BI-214	5.36E-02	7.67E-03
26 4.7 MILES S	8/15/2011	3419.7	BI-214	4.68E-03	3.32E-03
26 4.7 MILES S	8/15/2011	3419.7	K-40	6.78E-02	2.95E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26 4.7 MILES S	8/15/2011	3419.7	BE-7	1.42E-01	3.15E-02
26 4.7 MILES S	11/14/2011	3537.7	BE-7	1.16E-01	2.95E-02
26 4.7 MILES S	11/14/2011	3537.7	K-40	3.03E-02	2.05E-02
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	BI-214	7.49E-03	3.31E-03
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	PB-214	9.02E-03	3.27E-03
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	PB-212	3.17E-03	1.80E-03
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	TL-208	1.51E-03	8.82E-04
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	BE-7	1.20E-01	2.69E-02
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2011	3606.8	K-40	5.05E-02	2.30E-02
47 SSW SECTOR 3.4 MI FROM SITE	3/25/2011	286.8	I-131	4.09E-02	1.99E-02
47 SSW SECTOR 3.4 MI FROM SITE	3/25/2011	286.8	PB-212	3.25E-02	1.85E-02
47 SSW SECTOR 3.4 MI FROM SITE	3/25/2011	286.8	BE-7	1.95E-01	1.31E-01
47 SSW SECTOR 3.4 MI FROM SITE	3/25/2011	286.8	PB-214	1.39E-01	3.69E-02
47 SSW SECTOR 3.4 MI FROM SITE	3/25/2011	286.8	BI-214	8.32E-02	3.15E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	I-131	2.94E-02	1.73E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	TH-234	2.14E-01	1.72E-01
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	PB-214	3.89E-02	2.57E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	K-40	3.36E-01	2.21E-01
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	PB-212	2.33E-02	1.20E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/4/2011	277.4	BI-214	5.22E-02	2.15E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/11/2011	281.6	PB-212	1.90E-02	1.59E-02
47 SSW SECTOR 3.4 MI FROM SITE	4/11/2011	281.6	K-40	4.31E-01	1.64E-01
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2011	3529.1	BI-214	5.98E-03	3.14E-03
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2011	3529.1	K-40	6.86E-02	2.33E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2011	3529.1	BE-7	1.31E-01	3.08E-02
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	BE-7	1.42E-01	3.34E-02
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	PB-214	9.33E-03	2.57E-03
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	K-40	6.07E-02	2.18E-02
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	TL-208	1.27E-03	1.07E-03
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	BI-214	7.61E-03	3.43E-03
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2011	3421.3	PB-212	3.35E-03	1.67E-03
47 SSW SECTOR 3.4 MI FROM SITE	11/14/2011	3660.9	BE-7	9.20E-02	3.77E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/14/2011	3660.9	K-40	6.80E-02	2.45E-02
63 0.6 MI SW	2/14/2011	3583.4	PB-212	2.06E-03	1.57E-03
63 0.6 MI SW	2/14/2011	3583.4	BE-7	9.98E-02	2.66E-02
63 0.6 MI SW	2/14/2011	3583.4	K-40	4.81E-02	1.68E-02
63 0.6 MI SW	2/14/2011	3583.4	BI-214	8.68E-03	2.80E-03
63 0.6 MI SW	2/14/2011	3583.4	TH-234	2.36E-02	2.06E-02
63 0.6 MI SW	3/21/2011	275.8	K-40	3.20E-01	2.06E-01
63 0.6 MI SW	3/21/2011	275.8	BI-214	4.94E-02	2.66E-02
63 0.6 MI SW	3/21/2011	275.8	PB-212	2.53E-02	2.17E-02
63 0.6 MI SW	3/21/2011	275.8	BE-7	1.76E-01	7.25E-02
63 0.6 MI SW	3/21/2011	275.8	PB-214	8.25E-02	3.42E-02
63 0.6 MI SW	3/24/2011	277.4	PB-214	8.29E-02	2.58E-02
63 0.6 MI SW	3/24/2011	277.4	TL-208	1.43E-02	9.05E-03
63 0.6 MI SW	3/24/2011	277.4	RA-226	3.88E-01	2.39E-01
63 0.6 MI SW	3/24/2011	277.4	PB-212	4.03E-02	1.75E-02
63 0.6 MI SW	3/24/2011	277.4	I-131	2.78E-02	1.81E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63	0.6 MI SW	3/24/2011	277.4	BI-214	8.10E-02	3.15E-02
63	0.6 MI SW	3/24/2011	277.4	BE-7	1.56E-01	9.39E-02
63	0.6 MI SW	4/4/2011	279.2	TH-234	2.67E-01	2.10E-01
63	0.6 MI SW	4/4/2011	279.2	BI-214	5.88E-02	2.26E-02
63	0.6 MI SW	4/4/2011	279.2	I-131	3.31E-02	1.59E-02
63	0.6 MI SW	4/4/2011	279.2	K-40	5.21E-01	1.84E-01
63	0.6 MI SW	4/4/2011	279.2	BE-7	2.13E-01	8.50E-02
63	0.6 MI SW	4/11/2011	276.7	TH-234	3.69E-01	2.02E-01
63	0.6 MI SW	4/11/2011	276.7	K-40	4.16E-01	1.88E-01
63	0.6 MI SW	4/11/2011	276.7	TL-208	1.42E-02	1.04E-02
63	0.6 MI SW	4/11/2011	276.7	BI-214	2.87E-02	2.35E-02
63	0.6 MI SW	4/11/2011	276.7	PB-212	3.06E-02	1.64E-02
63	0.6 MI SW	4/11/2011	276.7	BE-7	1.99E-01	1.01E-01
63	0.6 MI SW	5/16/2011	3512.1	BE-7	1.57E-01	3.89E-02
63	0.6 MI SW	5/16/2011	3512.1	PB-214	5.40E-03	2.01E-03
63	0.6 MI SW	8/15/2011	3354.6	PB-214	5.72E-03	2.36E-03
63	0.6 MI SW	8/15/2011	3354.6	BI-214	5.40E-03	3.20E-03
63	0.6 MI SW	8/15/2011	3354.6	RA-226	3.28E-02	2.24E-02
63	0.6 MI SW	8/15/2011	3354.6	K-40	4.21E-02	1.81E-02
63	0.6 MI SW	8/15/2011	3354.6	BE-7	1.29E-01	2.80E-02
63	0.6 MI SW	11/14/2011	3507.1	BE-7	9.37E-02	3.71E-02
63	0.6 MI SW	11/14/2011	3507.1	BI-214	3.19E-03	1.90E-03
90	0.5 MI SSW	2/14/2011	3648.3	TH-234	2.82E-02	2.32E-02
90	0.5 MI SSW	2/14/2011	3648.3	RA-226	2.24E-02	1.26E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
90 0.5 MI SSW	2/14/2011	3648.3	BE-7	1.06E-01	3.06E-02
90 0.5 MI SSW	2/14/2011	3648.3	PB-214	5.53E-03	2.57E-03
90 0.5 MI SSW	2/14/2011	3648.3	BI-214	5.18E-03	2.53E-03
90 0.5 MI SSW	2/14/2011	3648.3	K-40	4.22E-02	1.74E-02
90 0.5 MI SSW	3/24/2011	292	BE-7	1.34E-01	8.28E-02
90 0.5 MI SSW	3/24/2011	292	BI-214	6.76E-02	1.96E-02
90 0.5 MI SSW	3/24/2011	292	PB-212	3.53E-02	1.45E-02
90 0.5 MI SSW	3/24/2011	292	K-40	4.73E-01	1.69E-01
90 0.5 MI SSW	3/24/2011	292	I-131	2.78E-02	1.41E-02
90 0.5 MI SSW	3/24/2011	292	RA-226	3.28E-01	1.83E-01
90 0.5 MI SSW	4/4/2011	301.4	BE-7	2.52E-01	9.42E-02
90 0.5 MI SSW	4/4/2011	301.4	K-40	6.58E-01	2.00E-01
90 0.5 MI SSW	4/11/2011	295.2	K-40	5.74E-01	2.07E-01
90 0.5 MI SSW	5/16/2011	3640.1	BE-7	1.44E-01	3.82E-02
90 0.5 MI SSW	5/16/2011	3640.1	K-40	5.72E-02	2.09E-02
90 0.5 MI SSW	8/15/2011	3451.9	K-40	4.80E-02	2.73E-02
90 0.5 MI SSW	8/15/2011	3451.9	BE-7	1.38E-01	3.78E-02
90 0.5 MI SSW	11/14/2011	3320.1	K-40	7.74E-02	2.55E-02
90 0.5 MI SSW	11/14/2011	3320.1	BI-214	6.34E-03	2.87E-03
90 0.5 MI SSW	11/14/2011	3320.1	BE-7	1.26E-01	3.37E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/14/2011	3493.6	K-40	4.33E-02	2.22E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	2/14/2011	3493.6	BE-7	1.02E-01	2.67E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	TL-208	1.43E-02	1.23E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	PB-212	4.81E-02	2.68E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	I-131	2.59E-02	1.62E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	K-40	6.11E-01	2.31E-01
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	PB-214	3.92E-02	2.18E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	3/24/2011	268.5	BI-214	6.90E-02	2.72E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	BE-7	1.41E-01	9.45E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	I-131	3.83E-02	1.44E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	TL-208	1.64E-02	9.03E-03
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	PB-212	2.19E-02	1.85E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	BI-214	3.23E-02	2.35E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	RA-226	2.41E-01	1.38E-01
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/4/2011	268.7	K-40	9.37E-01	1.95E-01
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.6	TH-234	1.46E-01	1.15E-01
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.6	BE-7	1.48E-01	7.69E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.6	PB-212	2.13E-02	1.27E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	4/11/2011	267.6	RA-226	2.16E-01	1.78E-01
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	3453.3	BE-7	1.38E-01	3.76E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	3453.3	PB-214	1.05E-02	2.47E-03
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	3453.3	TL-208	1.35E-03	8.80E-04
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	3453.3	K-40	6.61E-02	2.61E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	5/16/2011	3453.3	BI-214	4.26E-03	1.77E-03
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/15/2011	3536.5	K-40	6.10E-02	2.41E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/15/2011	3536.5	BI-214	5.73E-03	2.57E-03
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	8/15/2011	3536.5	BE-7	1.34E-01	2.94E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	3536.3	BI-214	2.60E-03	2.32E-03

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	3536.3	BE-7	1.40E-01	3.41E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	3536.3	K-40	5.32E-02	2.00E-02
91 1.6 MI ENE - HEEC SEWAGE TRTMT FCLTY	11/14/2011	3536.3	RA-226	3.50E-02	1.83E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Aquatic Vegetation

Quantity: Grams (wet)

Concentration (Activity): pCi/gm wet

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26 4.7 MILES S	11/2/2011	799.3	K-40	3.68E+00	3.90E-01
26 4.7 MILES S	11/2/2011	799.3	TL-208	1.97E-02	8.20E-03
26 4.7 MILES S	11/2/2011	799.3	PB-212	3.65E-02	1.60E-02
26 4.7 MILES S	11/2/2011	799.3	BI-214	6.93E-02	2.21E-02
26 4.7 MILES S	11/2/2011	799.3	PB-214	5.48E-02	1.71E-02
26 4.7 MILES S	11/2/2011	799.3	RA-226	4.31E-01	1.75E-01
26 4.7 MILES S	11/2/2011	799.3	TH-234	3.70E-01	2.16E-01
26 4.7 MILES S	11/2/2011	799.3	BE-7	3.53E-01	9.07E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	BI-214	7.89E-02	2.18E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	BE-7	6.09E-01	1.14E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	K-40	3.68E+00	3.95E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	PB-212	3.86E-02	1.58E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	PB-214	6.75E-02	2.59E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	RA-226	2.66E-01	2.08E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	AC-228	8.32E-02	3.60E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/2/2011	778	TL-208	2.07E-02	1.26E-02
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	TH-234	3.11E-01	2.62E-01
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	BE-7	5.02E-01	1.02E-01
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	K-40	3.31E+00	3.77E-01
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	PB-212	1.96E-02	1.33E-02
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	BI-214	6.82E-02	2.17E-02
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	PB-214	4.64E-02	2.22E-02
61 2.5 MI E - HARRIS LK E NH-HOLLEMAN RD (CONTROL)	11/2/2011	762.4	RA-226	4.34E-01	1.92E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: FIG LEAF

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	K-40	4.89E+00	5.77E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	BI-214	4.62E-02	3.00E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	RA-226	6.11E-01	3.42E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	AC-228	7.93E-02	6.14E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	BE-7	7.66E-01	1.74E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	PB-212	7.09E-02	3.04E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	428	TL-208	4.01E-02	1.83E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	RA-226	7.89E-01	3.07E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	AC-228	1.85E-01	6.26E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	PB-214	1.41E-01	3.67E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	BI-214	8.85E-02	4.24E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	PB-212	1.67E-01	3.04E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	TL-208	6.16E-02	2.34E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	K-40	5.33E+00	6.30E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	BE-7	7.03E-01	1.86E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	402.7	TH-234	6.13E-01	3.99E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	AC-228	2.42E-01	6.41E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	RA-226	5.95E-01	3.07E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	BE-7	1.73E+00	2.55E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: FIG LEAF

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	BI-214	1.16E-01	4.03E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	PB-212	6.18E-01	7.15E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	BI-212	5.11E-01	1.58E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	TL-208	2.25E-01	3.48E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	K-40	6.42E+00	6.91E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	430.7	PB-214	7.30E-02	3.56E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	AC-228	2.44E-01	7.99E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	RA-226	9.77E-01	3.97E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	PB-214	1.51E-01	4.56E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	BI-214	1.92E-01	4.96E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	BI-212	3.78E-01	1.23E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	BE-7	2.49E+00	3.45E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	TH-234	6.92E-01	5.33E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	PB-212	3.34E-01	4.49E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	K-40	6.44E+00	7.18E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	387.7	TL-208	1.48E-01	2.63E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	BE-7	3.29E+00	3.86E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	K-40	5.57E+00	6.48E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	TL-208	6.69E-02	2.37E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
Quantity: GRAMS (wet)
Concentration (Activity): pCi/gm wet

Media: FIG LEAF

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	PB-212	1.72E-01	3.64E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	BI-214	1.82E-01	4.02E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	PB-214	1.91E-01	4.17E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	RA-226	8.43E-01	4.65E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	415.6	AC-228	3.61E-01	8.99E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	396.2	PB-212	3.36E-01	5.14E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	396.2	BI-212	2.98E-01	1.49E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	396.2	TL-208	1.09E-01	2.87E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	396.2	K-40	5.26E+00	6.10E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	396.2	BE-7	8.26E-01	2.00E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	K-40	4.96E+00	6.01E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	BE-7	1.17E+00	2.69E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	TL-208	1.78E-01	3.49E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	BI-212	3.84E-01	1.34E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	PB-212	5.14E-01	6.52E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	AC-228	1.35E-01	7.30E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	PB-214	8.49E-02	3.98E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	RA-226	9.03E-01	4.66E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	BI-214	1.19E-01	4.13E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	382.9	TH-234	1.20E+00	6.23E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	K-40	5.05E+00	5.97E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	TL-208	7.56E-02	2.32E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	AC-228	2.55E-01	7.19E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	BI-212	2.93E-01	1.53E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	BE-7	1.53E+00	2.50E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	TH-234	7.44E-01	4.74E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	RA-226	4.43E-01	4.10E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	394.9	PB-212	1.50E-01	4.01E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	K-40	4.86E+00	5.81E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	TL-208	8.03E-02	2.40E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	BI-212	2.86E-01	1.69E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	PB-212	1.97E-01	4.15E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	BI-214	1.05E-01	3.46E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	PB-214	7.40E-02	4.34E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	AC-228	2.67E-01	8.60E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	413.6	BE-7	1.89E+00	2.58E-01
12 0.9 MILES SSW	5/18/2011	387.4	PB-214	8.92E-02	4.19E-02
12 0.9 MILES SSW	5/18/2011	387.4	TH-234	8.56E-01	6.35E-01
12 0.9 MILES SSW	5/18/2011	387.4	BI-214	1.44E-01	4.87E-02
12 0.9 MILES SSW	5/18/2011	387.4	PB-212	2.13E-01	4.25E-02
12 0.9 MILES SSW	5/18/2011	387.4	BI-212	2.50E-01	1.90E-01
12 0.9 MILES SSW	5/18/2011	387.4	TL-208	8.85E-02	2.34E-02
12 0.9 MILES SSW	5/18/2011	387.4	K-40	4.27E+00	5.38E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
12 0.9 MILES SSW	5/18/2011	387.4	BE-7	9.63E-01	2.21E-01
12 0.9 MILES SSW	6/14/2011	362.3	RA-226	5.50E-01	3.15E-01
12 0.9 MILES SSW	6/14/2011	362.3	K-40	3.09E+00	4.52E-01
12 0.9 MILES SSW	6/14/2011	362.3	BI-214	1.48E-01	3.51E-02
12 0.9 MILES SSW	6/14/2011	362.3	BE-7	9.85E-01	1.74E-01
12 0.9 MILES SSW	6/14/2011	362.3	TL-208	5.24E-02	2.33E-02
12 0.9 MILES SSW	6/14/2011	362.3	PB-212	1.67E-01	3.22E-02
12 0.9 MILES SSW	6/14/2011	362.3	PB-214	1.65E-01	4.93E-02
12 0.9 MILES SSW	7/19/2011	290.1	RA-226	5.39E-01	3.83E-01
12 0.9 MILES SSW	7/19/2011	290.1	PB-214	1.37E-01	4.46E-02
12 0.9 MILES SSW	7/19/2011	290.1	TL-208	6.95E-02	2.81E-02
12 0.9 MILES SSW	7/19/2011	290.1	K-40	3.06E+00	4.98E-01
12 0.9 MILES SSW	7/19/2011	290.1	BE-7	9.01E-01	2.56E-01
12 0.9 MILES SSW	7/19/2011	290.1	TH-234	6.91E-01	6.44E-01
12 0.9 MILES SSW	7/19/2011	290.1	PB-212	1.48E-01	3.88E-02
12 0.9 MILES SSW	7/19/2011	290.1	BI-214	1.62E-01	4.71E-02
12 0.9 MILES SSW	9/20/2011	526.2	BE-7	9.72E-01	1.57E-01
12 0.9 MILES SSW	9/20/2011	526.2	BI-212	1.31E-01	8.91E-02
12 0.9 MILES SSW	9/20/2011	526.2	K-40	3.62E+00	4.30E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
12	0.9 MILES SSW	9/20/2011	526.2	PB-212	1.11E-01	3.33E-02
12	0.9 MILES SSW	9/20/2011	526.2	BI-214	6.84E-02	2.59E-02
12	0.9 MILES SSW	9/20/2011	526.2	PB-214	5.90E-02	2.24E-02
12	0.9 MILES SSW	9/20/2011	526.2	TL-208	5.77E-02	1.72E-02
63	0.6 MI SW	5/18/2011	392.3	RA-226	8.14E-01	3.77E-01
63	0.6 MI SW	5/18/2011	392.3	TH-234	7.27E-01	4.64E-01
63	0.6 MI SW	5/18/2011	392.3	PB-214	9.81E-02	4.09E-02
63	0.6 MI SW	5/18/2011	392.3	TL-208	8.87E-02	2.01E-02
63	0.6 MI SW	5/18/2011	392.3	BE-7	6.32E-01	1.51E-01
63	0.6 MI SW	5/18/2011	392.3	BI-214	1.77E-01	4.10E-02
63	0.6 MI SW	5/18/2011	392.3	PB-212	1.99E-01	4.01E-02
63	0.6 MI SW	5/18/2011	392.3	K-40	4.13E+00	5.12E-01
63	0.6 MI SW	6/14/2011	351.8	BI-212	2.40E-01	1.80E-01
63	0.6 MI SW	6/14/2011	351.8	PB-214	1.13E-01	4.72E-02
63	0.6 MI SW	6/14/2011	351.8	BE-7	6.28E-01	1.67E-01
63	0.6 MI SW	6/14/2011	351.8	TL-208	4.19E-02	2.52E-02
63	0.6 MI SW	6/14/2011	351.8	PB-212	1.09E-01	3.43E-02
63	0.6 MI SW	6/14/2011	351.8	BI-214	9.79E-02	4.85E-02
63	0.6 MI SW	6/14/2011	351.8	RA-226	7.77E-01	3.91E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63 0.6 MI SW	6/14/2011	351.8	K-40	3.12E+00	4.74E-01
63 0.6 MI SW	7/19/2011	351.2	RA-226	7.04E-01	5.00E-01
63 0.6 MI SW	7/19/2011	351.2	BE-7	1.00E+00	2.26E-01
63 0.6 MI SW	7/19/2011	351.2	K-40	4.46E+00	5.87E-01
63 0.6 MI SW	7/19/2011	351.2	TL-208	6.76E-02	2.30E-02
63 0.6 MI SW	7/19/2011	351.2	PB-212	1.07E-01	3.26E-02
63 0.6 MI SW	7/19/2011	351.2	PB-214	7.81E-02	4.63E-02
63 0.6 MI SW	7/19/2011	351.2	BI-214	1.09E-01	4.27E-02
63 0.6 MI SW	8/16/2011	380.8	BI-212	1.76E-01	1.69E-01
63 0.6 MI SW	8/16/2011	380.8	TL-208	1.17E-01	2.65E-02
63 0.6 MI SW	8/16/2011	380.8	RA-226	4.81E-01	4.13E-01
63 0.6 MI SW	8/16/2011	380.8	PB-214	8.26E-02	3.83E-02
63 0.6 MI SW	8/16/2011	380.8	K-40	3.47E+00	4.76E-01
63 0.6 MI SW	8/16/2011	380.8	PB-212	3.45E-01	5.01E-02
63 0.6 MI SW	8/16/2011	380.8	BE-7	2.26E+00	3.16E-01
63 0.6 MI SW	8/16/2011	380.8	BI-214	1.33E-01	3.81E-02
63 0.6 MI SW	9/20/2011	408.9	K-40	4.20E+00	5.11E-01
63 0.6 MI SW	9/20/2011	408.9	PB-214	9.75E-02	3.64E-02
63 0.6 MI SW	9/20/2011	408.9	BI-214	9.09E-02	2.96E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: MAPLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63 0.6 MI SW	9/20/2011	408.9	BE-7	2.19E+00	2.83E-01
63 0.6 MI SW	9/20/2011	408.9	PB-212	2.62E-01	4.41E-02
63 0.6 MI SW	9/20/2011	408.9	BI-212	2.26E-01	1.31E-01
63 0.6 MI SW	9/20/2011	408.9	TL-208	1.09E-01	2.31E-02
63 0.6 MI SW	9/20/2011	408.9	TH-234	1.11E+00	5.68E-01
63 0.6 MI SW	9/20/2011	408.9	RA-226	5.05E-01	3.54E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: PERSIMMONS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
12 0.9 MILES SSW	8/16/2011	510.6	K-40	4.42E+00	5.09E-01
12 0.9 MILES SSW	8/16/2011	510.6	PB-214	3.30E-02	2.23E-02
12 0.9 MILES SSW	8/16/2011	510.6	TL-208	6.85E-02	1.66E-02
12 0.9 MILES SSW	8/16/2011	510.6	PB-212	1.70E-01	3.59E-02
12 0.9 MILES SSW	8/16/2011	510.6	BI-214	2.84E-02	2.73E-02
12 0.9 MILES SSW	8/16/2011	510.6	BE-7	1.85E+00	2.45E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	TL-208	3.32E-02	1.70E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	BE-7	6.55E-01	1.80E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	K-40	3.78E+00	4.92E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	PB-214	7.36E-02	4.45E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	AC-228	1.44E-01	6.46E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	BI-214	8.49E-02	4.80E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	414	PB-212	1.06E-01	3.09E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	BI-212	1.64E-01	7.69E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	TL-208	8.01E-02	2.17E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	K-40	3.84E+00	4.63E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	PB-212	1.95E-01	2.92E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	BI-214	8.90E-02	2.69E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	AC-228	2.08E-01	6.25E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	PB-214	4.02E-02	2.71E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	534.2	BE-7	5.06E-01	1.62E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	K-40	2.66E+00	3.84E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	AC-228	1.93E-01	6.53E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	RA-226	6.15E-01	3.03E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	PB-214	8.54E-02	3.86E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	BI-214	6.45E-02	3.53E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	PB-212	2.23E-01	3.14E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	BI-212	1.86E-01	1.30E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	BE-7	5.11E-01	1.39E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	451.4	TL-208	8.23E-02	2.14E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	RA-226	6.84E-01	3.43E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	AC-228	2.98E-01	6.59E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	PB-214	1.15E-01	3.82E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	BI-214	1.36E-01	4.45E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	PB-212	2.08E-01	3.20E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	TH-234	9.19E-01	4.57E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	BE-7	1.02E+00	2.01E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	K-40	3.27E+00	4.30E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	423.5	TL-208	8.57E-02	2.17E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	PB-214	1.01E-01	3.41E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	BI-214	7.93E-02	2.85E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	RA-226	8.62E-01	2.90E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	BE-7	1.74E+00	2.49E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	PB-212	1.45E-01	2.63E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	TL-208	4.66E-02	2.01E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	AC-228	3.44E-01	8.45E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	TH-234	6.80E-01	4.86E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/19/2011	401.9	K-40	3.85E+00	5.00E-01
12 0.9 MILES SSW	5/18/2011	418.9	K-40	2.91E+00	4.07E-01
12 0.9 MILES SSW	5/18/2011	418.9	BI-214	1.20E-01	3.40E-02
12 0.9 MILES SSW	5/18/2011	418.9	PB-214	1.30E-01	4.02E-02
12 0.9 MILES SSW	5/18/2011	418.9	RA-226	6.47E-01	3.26E-01
12 0.9 MILES SSW	5/18/2011	418.9	TH-234	9.56E-01	5.39E-01
12 0.9 MILES SSW	5/18/2011	418.9	PB-212	1.55E-01	2.82E-02
12 0.9 MILES SSW	5/18/2011	418.9	TL-208	4.88E-02	2.19E-02
12 0.9 MILES SSW	5/18/2011	418.9	BE-7	4.74E-01	1.77E-01
12 0.9 MILES SSW	6/14/2011	481.7	PB-212	1.08E-01	3.02E-02
12 0.9 MILES SSW	6/14/2011	481.7	PB-214	8.65E-02	3.03E-02
12 0.9 MILES SSW	6/14/2011	481.7	BE-7	8.19E-01	1.57E-01
12 0.9 MILES SSW	6/14/2011	481.7	RA-226	4.84E-01	3.19E-01
12 0.9 MILES SSW	6/14/2011	481.7	BI-212	9.26E-02	7.95E-02
12 0.9 MILES SSW	6/14/2011	481.7	TL-208	6.09E-02	1.65E-02
12 0.9 MILES SSW	6/14/2011	481.7	K-40	2.84E+00	4.00E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
12	0.9 MILES SSW	6/14/2011	481.7	BI-214	7.79E-02	2.99E-02
12	0.9 MILES SSW	7/19/2011	453.2	TL-208	4.15E-02	1.42E-02
12	0.9 MILES SSW	7/19/2011	453.2	RA-226	5.97E-01	3.40E-01
12	0.9 MILES SSW	7/19/2011	453.2	PB-214	1.36E-01	3.53E-02
12	0.9 MILES SSW	7/19/2011	453.2	BI-214	1.39E-01	3.48E-02
12	0.9 MILES SSW	7/19/2011	453.2	PB-212	1.01E-01	2.41E-02
12	0.9 MILES SSW	7/19/2011	453.2	BE-7	1.57E+00	2.12E-01
12	0.9 MILES SSW	7/19/2011	453.2	K-40	2.44E+00	3.36E-01
12	0.9 MILES SSW	8/16/2011	545.9	BI-212	2.16E-01	1.19E-01
12	0.9 MILES SSW	8/16/2011	545.9	PB-212	2.39E-01	3.43E-02
12	0.9 MILES SSW	8/16/2011	545.9	BE-7	1.91E+00	2.29E-01
12	0.9 MILES SSW	8/16/2011	545.9	K-40	2.25E+00	2.99E-01
12	0.9 MILES SSW	8/16/2011	545.9	BI-214	5.63E-02	2.87E-02
12	0.9 MILES SSW	8/16/2011	545.9	TL-208	7.65E-02	1.90E-02
12	0.9 MILES SSW	8/16/2011	545.9	RA-226	5.88E-01	2.88E-01
12	0.9 MILES SSW	8/16/2011	545.9	TH-234	5.38E-01	3.55E-01
12	0.9 MILES SSW	8/16/2011	545.9	PB-214	4.88E-02	2.61E-02
12	0.9 MILES SSW	9/20/2011	415	PB-214	1.03E-01	4.07E-02
12	0.9 MILES SSW	9/20/2011	415	TH-234	5.86E-01	3.56E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
12	0.9 MILES SSW	9/20/2011	415	RA-226	6.30E-01	3.43E-01
12	0.9 MILES SSW	9/20/2011	415	BI-214	1.29E-01	3.77E-02
12	0.9 MILES SSW	9/20/2011	415	PB-212	1.36E-01	3.74E-02
12	0.9 MILES SSW	9/20/2011	415	TL-208	6.48E-02	2.12E-02
12	0.9 MILES SSW	9/20/2011	415	BE-7	2.05E+00	2.79E-01
12	0.9 MILES SSW	9/20/2011	415	K-40	2.23E+00	3.71E-01
63	0.6 MI SW	5/18/2011	474.9	BE-7	5.19E-01	1.30E-01
63	0.6 MI SW	5/18/2011	474.9	K-40	3.09E+00	4.19E-01
63	0.6 MI SW	5/18/2011	474.9	PB-212	1.21E-01	3.40E-02
63	0.6 MI SW	5/18/2011	474.9	RA-226	4.50E-01	3.12E-01
63	0.6 MI SW	5/18/2011	474.9	TL-208	3.83E-02	1.59E-02
63	0.6 MI SW	6/14/2011	358.6	BE-7	6.75E-01	1.78E-01
63	0.6 MI SW	6/14/2011	358.6	K-40	3.26E+00	4.46E-01
63	0.6 MI SW	6/14/2011	358.6	TL-208	4.77E-02	2.51E-02
63	0.6 MI SW	6/14/2011	358.6	PB-212	1.30E-01	3.50E-02
63	0.6 MI SW	6/14/2011	358.6	BI-214	1.42E-01	4.22E-02
63	0.6 MI SW	6/14/2011	358.6	PB-214	1.05E-01	4.20E-02
63	0.6 MI SW	6/14/2011	358.6	RA-226	6.28E-01	3.43E-01
63	0.6 MI SW	7/19/2011	355.7	PB-212	1.09E-01	3.30E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
63	0.6 MI SW	7/19/2011	355.7	TL-208	5.15E-02	2.17E-02
63	0.6 MI SW	7/19/2011	355.7	RA-226	7.88E-01	3.79E-01
63	0.6 MI SW	7/19/2011	355.7	BI-214	1.02E-01	5.80E-02
63	0.6 MI SW	7/19/2011	355.7	TH-234	6.08E-01	4.58E-01
63	0.6 MI SW	7/19/2011	355.7	BE-7	8.66E-01	1.94E-01
63	0.6 MI SW	7/19/2011	355.7	K-40	2.81E+00	4.40E-01
63	0.6 MI SW	7/19/2011	355.7	PB-214	1.09E-01	4.42E-02
63	0.6 MI SW	8/16/2011	402.4	BI-212	2.10E-01	1.64E-01
63	0.6 MI SW	8/16/2011	402.4	BE-7	1.34E+00	2.29E-01
63	0.6 MI SW	8/16/2011	402.4	K-40	2.85E+00	3.90E-01
63	0.6 MI SW	8/16/2011	402.4	RA-226	4.79E-01	3.60E-01
63	0.6 MI SW	8/16/2011	402.4	TH-234	7.12E-01	5.04E-01
63	0.6 MI SW	8/16/2011	402.4	PB-212	3.21E-01	4.46E-02
63	0.6 MI SW	8/16/2011	402.4	BI-214	1.07E-01	3.33E-02
63	0.6 MI SW	8/16/2011	402.4	TL-208	1.14E-01	2.50E-02
63	0.6 MI SW	8/16/2011	402.4	PB-214	8.37E-02	3.06E-02
63	0.6 MI SW	9/20/2011	455.7	BE-7	2.18E+00	2.96E-01
63	0.6 MI SW	9/20/2011	455.7	TL-208	7.01E-02	2.04E-02
63	0.6 MI SW	9/20/2011	455.7	BI-212	1.05E-01	9.78E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SWEETGUM

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63 0.6 MI SW	9/20/2011	455.7	PB-212	1.68E-01	4.05E-02
63 0.6 MI SW	9/20/2011	455.7	BI-214	7.56E-02	3.54E-02
63 0.6 MI SW	9/20/2011	455.7	PB-214	8.77E-02	3.96E-02
63 0.6 MI SW	9/20/2011	455.7	K-40	4.01E+00	4.90E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
12	0.9 MILES SSW	5/18/2011	472.6	K-40	2.98E+00	3.81E-01
12	0.9 MILES SSW	5/18/2011	472.6	BE-7	1.97E+00	2.57E-01
12	0.9 MILES SSW	5/18/2011	472.6	TL-208	5.40E-02	1.75E-02
12	0.9 MILES SSW	5/18/2011	472.6	PB-212	1.68E-01	2.57E-02
12	0.9 MILES SSW	5/18/2011	472.6	BI-214	1.27E-01	3.68E-02
12	0.9 MILES SSW	5/18/2011	472.6	PB-214	8.12E-02	3.18E-02
12	0.9 MILES SSW	5/18/2011	472.6	RA-226	5.41E-01	3.25E-02
12	0.9 MILES SSW	5/18/2011	472.6	TH-234	5.64E-01	3.68E-01
12	0.9 MILES SSW	6/14/2011	418.9	BE-7	1.86E+00	2.60E-01
12	0.9 MILES SSW	6/14/2011	418.9	PB-214	6.84E-02	3.77E-02
12	0.9 MILES SSW	6/14/2011	418.9	BI-214	7.80E-02	3.29E-02
12	0.9 MILES SSW	6/14/2011	418.9	PB-212	1.05E-01	2.84E-02
12	0.9 MILES SSW	6/14/2011	418.9	TL-208	3.56E-02	2.00E-02
12	0.9 MILES SSW	6/14/2011	418.9	K-40	4.47E+00	5.46E-01
12	0.9 MILES SSW	7/19/2011	411.7	BI-214	6.96E-02	3.14E-02
12	0.9 MILES SSW	7/19/2011	411.7	TL-208	3.93E-02	2.46E-02
12	0.9 MILES SSW	7/19/2011	411.7	RA-226	4.83E-01	3.81E-01
12	0.9 MILES SSW	7/19/2011	411.7	PB-212	1.17E-01	3.19E-02
12	0.9 MILES SSW	7/19/2011	411.7	K-40	4.02E+00	5.00E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
12	0.9 MILES SSW	7/19/2011	411.7	BE-7	2.36E+00	3.11E-01
12	0.9 MILES SSW	8/16/2011	519.7	BE-7	3.02E+00	3.38E-01
12	0.9 MILES SSW	8/16/2011	519.7	PB-214	5.67E-02	2.75E-02
12	0.9 MILES SSW	8/16/2011	519.7	BI-214	6.90E-02	3.05E-02
12	0.9 MILES SSW	8/16/2011	519.7	PB-212	2.56E-01	3.62E-02
12	0.9 MILES SSW	8/16/2011	519.7	BI-212	1.40E-01	1.15E-01
12	0.9 MILES SSW	8/16/2011	519.7	K-40	2.88E+00	3.70E-01
12	0.9 MILES SSW	8/16/2011	519.7	TL-208	8.30E-02	2.04E-02
12	0.9 MILES SSW	9/20/2011	388.4	BI-212	1.44E-01	1.25E-01
12	0.9 MILES SSW	9/20/2011	388.4	BE-7	2.67E+00	3.33E-01
12	0.9 MILES SSW	9/20/2011	388.4	PB-214	1.25E-01	4.55E-02
12	0.9 MILES SSW	9/20/2011	388.4	PB-212	1.59E-01	2.80E-02
12	0.9 MILES SSW	9/20/2011	388.4	TL-208	6.66E-02	1.86E-02
12	0.9 MILES SSW	9/20/2011	388.4	K-40	2.80E+00	4.08E-01
12	0.9 MILES SSW	9/20/2011	388.4	RA-226	7.11E-01	2.99E-01
12	0.9 MILES SSW	9/20/2011	388.4	BI-214	1.49E-01	3.90E-02
63	0.6 MI SW	5/18/2011	515.7	BI-214	6.23E-02	2.66E-02
63	0.6 MI SW	5/18/2011	515.7	PB-212	1.61E-01	3.15E-02
63	0.6 MI SW	5/18/2011	515.7	PB-214	2.98E-02	2.61E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63	0.6 MI SW	5/18/2011	515.7	TL-208	6.35E-02	1.84E-02
63	0.6 MI SW	5/18/2011	515.7	K-40	3.07E+00	4.04E-01
63	0.6 MI SW	5/18/2011	515.7	BE-7	1.07E+00	1.84E-01
63	0.6 MI SW	5/18/2011	515.7	TH-234	4.79E-01	4.08E-01
63	0.6 MI SW	5/18/2011	515.7	RA-226	6.41E-01	2.34E-01
63	0.6 MI SW	6/14/2011	403.8	RA-226	3.99E-01	3.67E-01
63	0.6 MI SW	6/14/2011	403.8	TL-208	8.46E-02	1.92E-02
63	0.6 MI SW	6/14/2011	403.8	PB-212	2.21E-01	3.85E-02
63	0.6 MI SW	6/14/2011	403.8	K-40	4.74E+00	5.51E-01
63	0.6 MI SW	6/14/2011	403.8	BE-7	1.04E+00	2.19E-01
63	0.6 MI SW	6/14/2011	403.8	BI-214	8.84E-02	3.68E-02
63	0.6 MI SW	7/19/2011	395.2	PB-214	9.52E-02	4.38E-02
63	0.6 MI SW	7/19/2011	395.2	BI-214	1.08E-01	3.88E-02
63	0.6 MI SW	7/19/2011	395.2	PB-212	1.51E-01	4.61E-02
63	0.6 MI SW	7/19/2011	395.2	BI-212	1.99E-01	1.50E-01
63	0.6 MI SW	7/19/2011	395.2	TL-208	7.26E-02	1.97E-02
63	0.6 MI SW	7/19/2011	395.2	K-40	4.11E+00	5.07E-01
63	0.6 MI SW	7/19/2011	395.2	BE-7	1.06E+00	1.91E-01
63	0.6 MI SW	7/19/2011	395.2	RA-226	4.60E-01	3.28E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation
 Quantity: GRAMS (wet)
 Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
63 0.6 MI SW	8/16/2011	444.8	PB-214	1.17E-01	3.47E-02
63 0.6 MI SW	8/16/2011	444.8	BI-214	1.27E-01	3.73E-02
63 0.6 MI SW	8/16/2011	444.8	PB-212	4.10E-01	5.63E-02
63 0.6 MI SW	8/16/2011	444.8	BI-212	3.49E-01	1.56E-01
63 0.6 MI SW	8/16/2011	444.8	TL-208	1.62E-01	2.62E-02
63 0.6 MI SW	8/16/2011	444.8	BE-7	1.94E+00	2.56E-01
63 0.6 MI SW	8/16/2011	444.8	K-40	3.37E+00	4.52E-01
63 0.6 MI SW	9/20/2011	470.6	TL-208	9.85E-02	2.25E-02
63 0.6 MI SW	9/20/2011	470.6	PB-212	2.03E-01	3.52E-02
63 0.6 MI SW	9/20/2011	470.6	BI-214	9.57E-02	3.41E-02
63 0.6 MI SW	9/20/2011	470.6	PB-214	9.27E-02	2.59E-02
63 0.6 MI SW	9/20/2011	470.6	RA-226	4.49E-01	2.63E-01
63 0.6 MI SW	9/20/2011	470.6	TH-234	7.41E-01	4.81E-01
63 0.6 MI SW	9/20/2011	470.6	K-40	2.44E+00	3.52E-01
63 0.6 MI SW	9/20/2011	470.6	BE-7	1.70E+00	2.62E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	TH-234	1.85E+02	5.07E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	RA-226	1.65E+02	3.77E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	PB-212	6.47E+00	2.43E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	TL-208	7.06E+00	2.42E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	K-40	2.47E+02	2.69E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	BI-214	2.05E+01	4.22E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1.0	PB-214	1.87E+01	4.02E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	K-40	2.49E+02	3.00E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	RA-226	1.97E+02	4.47E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	BI-214	2.43E+01	4.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	TH-234	1.85E+02	6.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	PB-212	8.97E+00	2.56E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	TL-208	4.64E+00	2.30E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1.0	PB-214	1.83E+01	3.77E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	TL-208	3.34E+00	1.71E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	BI-214	1.29E+01	4.48E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	PB-212	6.95E+00	3.59E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	K-40	5.46E+02	4.95E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	TH-234	1.02E+02	5.92E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	RA-226	9.41E+01	4.14E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1.0	PB-214	1.04E+01	4.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	K-40	5.19E+02	4.55E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	TL-208	5.89E+00	2.52E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	BI-214	7.93E+00	3.56E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	RA-226	1.39E+02	4.76E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	AC-228	1.15E+01	6.46E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	TH-234	1.36E+02	5.77E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	PB-212	5.52E+00	2.92E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1.0	PB-214	7.22E+00	3.50E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	AC-228	1.29E+01	6.50E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	PB-214	1.69E+01	3.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	TL-208	3.19E+00	1.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	BI-212	1.21E+01	1.11E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	RA-226	1.73E+02	3.73E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	TH-234	2.33E+02	6.13E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	K-40	2.34E+02	3.09E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	PB-212	1.15E+01	3.00E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1.0	BI-214	1.77E+01	3.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	BI-214	1.70E+01	3.77E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	PB-214	1.18E+01	3.88E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	TH-234	9.89E+01	6.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	TL-208	3.70E+00	1.62E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	RA-226	9.53E+01	3.97E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	K-40	4.84E+02	4.37E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1.0	PB-212	4.65E+00	2.63E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	PB-212	1.15E+01	2.78E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	BI-214	2.07E+01	4.26E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	PB-214	1.58E+01	4.14E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	RA-226	2.17E+02	4.49E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	TH-234	2.23E+02	6.60E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	K-40	2.32E+02	3.12E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1.0	TL-208	5.67E+00	1.80E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	BI-214	1.70E+01	4.33E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	PB-212	6.64E+00	1.90E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	AC-228	9.71E+00	5.22E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	PB-214	1.55E+01	4.01E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	K-40	2.15E+02	3.06E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	RA-226	1.91E+02	4.26E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1.0	TH-234	2.76E+02	6.96E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	PB-214	8.48E+00	3.43E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	BI-214	8.66E+00	3.46E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	TH-234	2.20E+02	5.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	RA-226	2.06E+02	4.72E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	K-40	2.81E+02	2.76E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	TL-208	2.93E+00	2.32E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1.0	PB-212	7.33E+00	2.63E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	PB-212	8.50E+00	3.15E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	K-40	5.08E+02	4.57E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	TL-208	4.08E+00	1.70E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	TH-234	1.41E+02	7.01E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	RA-226	1.24E+02	4.35E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	BI-214	1.09E+01	3.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1.0	PB-214	5.71E+00	3.18E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	K-40	2.31E+02	2.98E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	AC-228	1.14E+01	6.37E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	RA-226	2.06E+02	3.47E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	TH-234	2.27E+02	5.61E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	PB-212	8.94E+00	2.99E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	PB-214	1.14E+01	4.25E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	BI-214	1.68E+01	4.41E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1.0	TL-208	4.07E+00	1.74E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	TH-234	1.62E+02	7.73E+01
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	AC-228	1.54E+01	6.71E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	RA-226	1.19E+02	4.81E+01
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	BI-214	7.96E+00	3.56E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	K-40	4.98E+02	4.48E+01
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	PB-214	9.18E+00	3.52E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	PB-212	7.80E+00	3.14E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1.0	TL-208	3.54E+00	1.96E+00
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	PB-214	1.88E+01	4.15E+00
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	TH-234	1.96E+02	5.57E+01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	BI-214	1.67E+01	3.88E+00
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	PB-212	1.31E+01	3.06E+00
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	RA-226	1.86E+02	3.74E+01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	K-40	2.36E+02	3.06E+01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2011	1.0	TL-208	7.00E+00	2.08E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	TH-234	2.35E+02	5.58E+01
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	BI-214	1.69E+01	3.34E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	PB-214	1.40E+01	3.85E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	BI-212	1.95E+01	1.14E+01
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	TL-208	5.88E+00	1.65E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	K-40	2.21E+02	2.99E+01
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	PB-212	1.33E+01	2.27E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2011	1.0	RA-226	1.93E+02	3.95E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	BI-214	1.83E+01	4.04E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	TH-234	2.05E+02	5.63E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	RA-226	1.98E+02	3.95E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	PB-212	1.14E+01	2.80E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	PB-214	1.65E+01	4.19E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	K-40	2.38E+02	3.02E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1.0	TL-208	4.83E+00	1.77E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	PB-214	9.84E+00	3.95E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	TH-234	2.04E+02	5.10E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	AC-228	8.85E+00	5.62E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	RA-226	1.80E+02	4.02E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	BI-214	1.39E+01	4.37E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	TL-208	4.41E+00	2.33E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	K-40	2.51E+02	3.10E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1.0	PB-212	7.62E+00	2.53E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	RA-226	1.87E+02	4.11E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	PB-214	1.60E+01	3.62E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	K-40	4.18E+02	3.81E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	PB-212	1.43E+01	2.78E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	TL-208	5.82E+00	1.95E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	TH-234	2.27E+02	5.49E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	AC-228	1.60E+01	6.23E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1.0	BI-214	2.02E+01	4.34E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	RA-226	1.62E+02	3.60E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	PB-214	1.43E+01	4.27E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	PB-212	9.48E+00	2.73E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	K-40	2.18E+02	2.92E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	TL-208	3.91E+00	1.74E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	BI-214	1.61E+01	3.97E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	TH-234	2.17E+02	5.91E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1.0	AC-228	5.22E+00	4.67E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	AC-228	1.61E+01	4.39E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	RA-226	2.20E+02	4.43E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	BI-214	1.84E+01	4.18E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	TH-234	2.58E+02	6.52E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	BI-212	1.55E+01	1.24E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	TL-208	5.11E+00	1.88E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	K-40	3.96E+02	3.67E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	PB-214	1.63E+01	4.00E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1.0	PB-212	1.27E+01	2.48E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	PB-214	1.60E+01	4.39E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	TH-234	2.77E+02	6.07E+01
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	RA-226	2.00E+02	4.32E+01
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	BI-214	1.46E+01	3.09E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	PB-212	1.29E+01	3.00E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	TL-208	4.52E+00	2.23E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	K-40	3.85E+02	3.65E+01
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1.0	AC-228	2.08E+01	7.04E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	TL-208	4.52E+00	1.83E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	AC-228	7.75E+00	4.04E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	RA-226	1.79E+02	3.72E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	PB-212	1.10E+01	2.56E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	TH-234	2.68E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	PB-214	1.49E+01	4.12E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	BI-214	1.33E+01	3.37E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1.0	K-40	2.32E+02	2.98E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	BI-214	1.96E+01	4.20E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	AC-228	1.19E+01	5.66E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	RA-226	1.79E+02	3.69E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	PB-214	2.01E+01	4.01E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	TH-234	2.05E+02	5.45E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	PB-212	9.83E+00	2.48E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	K-40	2.37E+02	3.03E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1.0	TL-208	3.94E+00	2.33E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	PB-214	1.16E+01	3.01E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	PB-212	8.59E+00	2.47E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	TL-208	4.39E+00	1.64E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	K-40	2.26E+02	3.11E+01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	BI-214	1.70E+01	3.82E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	TH-234	2.36E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1.0	RA-226	1.94E+02	3.99E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	K-40	2.22E+02	2.78E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	TH-234	2.58E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	RA-226	1.97E+02	3.69E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	PB-214	1.18E+01	3.90E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	BI-214	1.27E+01	3.63E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	PB-212	8.87E+00	2.91E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1.0	TL-208	3.67E+00	1.51E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	K-40	4.12E+02	3.85E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	RA-226	2.09E+02	4.34E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	TL-208	6.03E+00	1.96E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	BI-212	1.38E+01	1.32E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	TH-234	2.21E+02	6.13E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	PB-214	1.39E+01	3.97E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	BI-214	2.03E+01	4.07E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	AC-228	1.89E+01	6.27E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2011	1.0	PB-212	1.20E+01	3.81E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	RA-226	1.71E+02	3.77E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	TH-234	2.04E+02	6.10E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	K-40	4.30E+02	3.67E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	BI-214	2.20E+01	4.25E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	PB-212	1.33E+01	2.78E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	AC-228	1.47E+01	5.79E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	PB-214	1.81E+01	4.76E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2011	1.0	TL-208	6.14E+00	1.83E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	RA-226	1.82E+02	4.06E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	BI-214	1.54E+01	3.59E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	TH-234	2.25E+02	6.10E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	AC-228	1.42E+01	6.08E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	K-40	3.93E+02	3.63E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	PB-214	1.38E+01	3.60E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	PB-212	1.34E+01	2.74E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	TL-208	5.43E+00	2.08E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2011	1.0	BI-212	1.63E+01	1.28E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	K-40	2.18E+02	2.91E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	TL-208	4.70E+00	1.68E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	PB-212	1.18E+01	2.84E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	TH-234	1.94E+02	5.99E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	RA-226	2.10E+02	4.05E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	PB-214	1.27E+01	3.43E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2011	1.0	BI-214	1.32E+01	3.33E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	BI-214	2.30E+01	3.98E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	PB-214	1.80E+01	3.70E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	RA-226	2.25E+02	4.34E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	PB-212	1.27E+01	2.40E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	TL-208	2.89E+00	1.54E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	K-40	2.19E+02	2.81E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2011	1.0	TH-234	2.37E+02	6.06E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	TH-234	2.24E+02	5.54E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	TL-208	5.43E+00	1.52E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	PB-212	1.27E+01	2.69E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	BI-214	1.98E+01	3.66E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	PB-214	1.48E+01	3.60E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	AC-228	1.02E+01	5.92E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	RA-226	2.19E+02	5.03E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2011	1.0	K-40	4.34E+02	3.91E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	BI-214	1.04E+01	4.24E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	TL-208	2.67E+00	2.07E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	PB-212	8.10E+00	3.46E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	RA-226	9.45E+01	4.52E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	AC-228	1.40E+01	6.02E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	TH-234	1.26E+02	7.80E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	PB-214	9.32E+00	3.81E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2011	1.0	K-40	5.35E+02	4.70E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	PB-212	8.09E+00	3.01E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	TL-208	4.29E+00	2.21E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	BI-214	9.00E+00	3.49E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	RA-226	1.39E+02	4.03E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	TH-234	1.00E+02	6.42E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2011	1.0	K-40	6.27E+02	5.28E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	BI-214	1.50E+01	3.90E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	K-40	4.00E+02	3.58E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	PB-212	1.38E+01	3.27E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	RA-226	1.68E+02	4.01E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	AC-228	1.98E+01	5.95E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	TH-234	1.93E+02	6.03E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	TL-208	7.48E+00	2.07E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2011	1.0	PB-214	1.43E+01	4.14E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	PB-212	1.30E+01	2.79E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	TL-208	5.70E+00	2.17E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	AC-228	1.18E+01	5.40E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	RA-226	1.88E+02	4.02E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	BI-214	1.78E+01	3.96E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	K-40	4.15E+02	3.62E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	TH-234	1.87E+02	4.99E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2011	1.0	PB-214	1.62E+01	4.40E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	BI-214	1.68E+01	4.47E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	RA-226	1.69E+02	4.04E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	PB-214	1.06E+01	3.76E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	AC-228	1.77E+01	6.00E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	PB-212	1.16E+01	2.72E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	TL-208	4.84E+00	1.69E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	TH-234	2.31E+02	7.14E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2011	1.0	K-40	4.02E+02	3.79E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	TL-208	5.37E+00	1.71E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	TH-234	2.69E+02	5.65E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	AC-228	1.45E+01	5.50E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	RA-226	2.08E+02	4.11E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	PB-214	1.36E+01	3.97E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	PB-212	1.41E+01	3.25E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	BI-214	1.38E+01	3.29E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2011	1.0	K-40	4.19E+02	3.73E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Bottom Feeder

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Catfish

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	614.3	K-40	3.56E+00	6.47E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	594.7	PB-214	8.96E-02	6.44E-02
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	594.7	BI-214	8.39E-02	3.21E-02
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	594.7	K-40	4.73E+00	7.60E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/16/2011	596.2	K-40	4.61E+00	7.69E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	717.5	RA-226	4.17E-01	2.40E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	717.5	K-40	3.54E+00	6.50E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Free Swimmer

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Largemouth Bass

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	631.7	PB-214	8.50E-02	5.10E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	631.7	BI-214	1.01E-01	3.66E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	631.7	K-40	4.06E+00	7.00E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	607.8	RA-226	5.43E-01	4.12E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	607.8	PB-214	6.27E-02	4.30E-02
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	607.8	K-40	3.92E+00	6.95E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/16/2011	842.5	PB-214	9.22E-02	3.30E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/16/2011	842.5	BI-214	2.97E-02	2.75E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/16/2011	842.5	K-40	3.27E+00	5.55E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	562.5	PB-214	1.41E-01	6.26E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	562.5	BI-214	1.21E-01	6.76E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	562.5	K-40	4.77E+00	7.99E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Free Swimmer

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Sunfish

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	RA-226	2.45E-01	1.80E-01
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	PB-214	6.11E-02	2.04E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	BI-214	5.17E-02	2.05E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	PB-212	3.18E-02	2.09E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	TL-208	1.11E-02	8.51E-03
44 SITE VARIES WITHIN HARRIS LAKE	5/16/2011	693.6	K-40	3.34E+00	3.84E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	622.2	PB-214	8.80E-02	4.97E-02
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	622.2	BI-214	7.59E-02	7.02E-02
44 SITE VARIES WITHIN HARRIS LAKE	11/1/2011	622.2	K-40	3.73E+00	6.51E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/16/2011	613.2	K-40	3.64E+00	5.71E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	683.7	BI-214	1.01E-01	4.09E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/1/2011	683.7	K-40	2.99E+00	5.51E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: COLLARDS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	BI-214	8.58E-02	3.22E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	BE-7	8.77E-02	8.16E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	RA-226	4.67E-01	2.71E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	PB-212	6.93E-02	2.88E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	TL-208	3.78E-02	1.37E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	1/17/2011	505.3	K-40	4.28E+00	4.96E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	PB-214	4.88E-02	3.16E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	BI-214	9.80E-02	2.86E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	PB-212	1.86E-01	3.11E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	BI-212	1.57E-01	1.03E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	TL-208	7.21E-02	1.82E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	2/17/2011	526.3	K-40	5.26E+00	5.66E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	PB-214	8.20E-02	3.00E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	K-40	5.00E+00	5.95E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	TL-208	6.37E-02	2.24E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	BI-212	3.40E-01	1.18E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	PB-212	2.35E-01	3.77E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	RA-226	5.74E-01	2.92E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	BI-214	8.11E-02	3.77E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: COLLARDS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
55 RD 1167 1.7 MI NNW (GOODWIN)	3/15/2011	466.4	BE-7	1.39E-01	1.11E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	BE-7	7.30E-01	1.28E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	RA-226	2.47E-01	2.00E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	BI-214	5.28E-02	3.41E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	PB-212	8.29E-02	2.23E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	K-40	4.68E+00	5.12E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	11/29/2011	579.6	TL-208	2.39E-02	1.56E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	K-40	2.98E+00	3.59E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	TL-208	1.50E-02	1.08E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	PB-212	4.66E-02	2.26E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	RA-226	3.35E-01	2.39E-01
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	PB-214	6.36E-02	2.13E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	BI-214	1.05E-01	2.93E-02
55 RD 1167 1.7 MI NNW (GOODWIN)	12/28/2011	650	BE-7	4.55E-01	1.00E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CUCUMBERS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	TH-234	5.27E-01	2.43E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	K-40	2.69E+00	3.13E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	TL-208	1.46E-02	8.35E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	PB-212	3.23E-02	1.95E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	BI-214	5.81E-02	1.67E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	RA-226	2.06E-01	1.45E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	773.5	PB-214	4.68E-02	1.93E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: MUSTARD GREENS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	TH-234	3.91E-01	3.77E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	RA-226	4.22E-01	2.66E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	K-40	5.05E+00	5.90E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	TL-208	1.62E-01	2.57E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	BI-212	3.30E-01	1.14E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	PB-212	4.33E-01	4.62E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	BI-214	5.10E-02	2.74E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	PB-214	4.81E-02	3.05E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	514.9	BE-7	2.12E-01	1.21E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SQUASH

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	888.8	K-40	2.77E+00	3.08E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	888.8	TL-208	9.07E-03	5.83E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	6/14/2011	888.8	BI-214	2.17E-02	1.23E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: TOMATOES

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	K-40	3.08E+00	3.37E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	TL-208	7.56E-03	7.04E-03
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	BI-214	5.99E-02	1.71E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	PB-214	3.97E-02	1.82E-02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	RA-226	2.11E-01	1.42E-01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	861.3	TH-234	3.96E-01	2.35E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	2/23/2011	1	K-40	6.09E+02	7.75E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	2/23/2011	1	PB-214	1.64E+01	7.99E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	2/23/2011	1	PB-212	1.14E+01	6.60E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	2/23/2011	1	BI-214	2.02E+01	7.97E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	PB-212	2.47E+01	6.00E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	TH-234	2.91E+02	1.31E+02
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	RA-226	2.03E+02	8.81E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	BI-214	3.36E+01	7.53E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	TL-208	8.42E+00	3.41E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	K-40	2.50E+02	5.48E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	5/12/2011	1	PB-214	2.78E+01	7.62E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	BI-214	2.43E+01	7.77E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	RA-226	3.29E+02	8.94E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	TH-234	2.62E+02	1.14E+02
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	TL-208	5.92E+00	3.01E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	K-40	3.68E+02	6.34E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	8/18/2011	1	PB-212	1.03E+01	7.54E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	RA-226	2.22E+02	8.35E+01
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	BI-214	1.94E+01	7.72E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	PB-212	1.34E+01	5.38E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	PB-214	1.82E+01	7.77E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	TH-234	3.06E+02	1.35E+02
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	TL-208	8.84E+00	4.43E+00
57	0.4 MI SSW - N SIDE AUX RES INTAKE CANAL	11/3/2011	1	K-40	1.90E+02	4.94E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	1	K-40	5.99E+02	7.61E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	1	TL-208	7.56E+00	3.69E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	1	PB-212	1.56E+01	8.79E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	1	BI-214	1.12E+01	8.01E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	2/23/2011	1	RA-226	1.65E+02	9.54E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	1	BI-214	1.38E+01	1.05E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	1	RA-226	9.52E+01	7.79E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	1	PB-212	1.16E+01	5.80E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	1	K-40	4.93E+02	6.80E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	5/12/2011	1	TH-234	2.34E+02	1.50E+02
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	PB-212	1.05E+01	6.58E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	BI-214	2.33E+01	9.09E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	RA-226	1.32E+02	8.24E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	K-40	4.94E+02	7.79E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	TL-208	7.91E+00	4.11E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	8/18/2011	1	TH-234	2.46E+02	1.31E+02
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	K-40	4.31E+02	6.47E+01
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	BI-214	1.57E+01	5.70E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	TL-208	3.53E+00	2.93E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	PB-212	1.53E+01	5.21E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	PB-214	1.78E+01	7.15E+00
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	TH-234	1.89E+02	1.05E+02
59	0.5 MI NNE (N SIDE OLD CONSTRUCTION RD)	11/3/2011	1	RA-226	2.24E+02	7.37E+01
60	0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	TL-208	1.46E+01	4.55E+00
60	0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	TH-234	2.62E+02	1.23E+02
60	0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	RA-226	2.55E+02	9.81E+01
60	0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	PB-214	6.71E+01	1.15E+01
60	0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	PB-212	2.21E+01	5.46E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	K-40	4.23E+02	6.36E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	2/22/2011	1	BI-214	6.43E+01	1.11E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	PB-212	1.97E+01	5.52E+00
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	BI-214	4.27E+01	1.00E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	RA-226	2.17E+02	8.92E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	PB-214	4.35E+01	1.05E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	K-40	3.65E+02	5.78E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	TL-208	4.76E+00	3.16E+00
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	5/12/2011	1	TH-234	1.78E+02	1.42E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	RA-226	2.24E+02	9.06E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	PB-212	1.03E+01	6.08E+00
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	PB-214	5.98E+01	1.08E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	K-40	4.97E+02	6.90E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	TH-234	2.81E+02	1.97E+02
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	8/18/2011	1	BI-214	5.65E+01	1.12E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	1	PB-214	1.05E+02	1.40E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	1	K-40	5.83E+02	7.46E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	1	TL-208	9.25E+00	5.72E+00
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	1	BI-214	9.31E+01	1.24E+01
60 0.5 MI ESE (W BANK HARRIS LK SE OF CT)	11/3/2011	1	PB-212	1.47E+01	6.15E+00
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	TH-234	2.57E+02	1.25E+02
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	PB-214	1.94E+01	7.64E+00
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	TL-208	4.79E+00	3.41E+00
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	PB-212	1.41E+01	6.81E+00
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	AC-228	1.35E+01	1.33E+01
68 0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	RA-226	1.94E+02	7.79E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	K-40	4.46E+02	6.58E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	2/23/2011	1	BI-214	1.57E+01	9.66E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	K-40	2.55E+02	5.36E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	RA-226	2.24E+02	9.30E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	BI-214	1.95E+01	8.62E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	TH-234	2.04E+02	1.39E+02
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	PB-214	1.37E+01	7.47E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	5/12/2011	1	PB-212	1.01E+01	5.56E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	PB-214	2.04E+01	8.78E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	K-40	2.38E+02	4.84E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	TH-234	2.44E+02	1.11E+02
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	TL-208	5.97E+00	2.93E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	BI-214	3.03E+01	8.58E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	PB-212	2.26E+01	8.13E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	8/18/2011	1	RA-226	1.81E+02	7.45E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	1	BI-214	8.31E+00	7.64E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	1	PB-212	1.00E+01	6.68E+00
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	1	RA-226	1.88E+02	9.97E+01
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	1	TH-234	1.77E+02	1.02E+02
68	0.2 MI W (N OF OLD STEAM GEN. STORAGE BLD.)	11/3/2011	1	K-40	2.25E+02	5.16E+01
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	K-40	2.14E+02	5.64E+01
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	TL-208	9.74E+00	4.36E+00
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	PB-212	1.41E+01	5.80E+00
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	BI-214	2.18E+01	8.17E+00
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	PB-214	1.86E+01	7.52E+00
69	0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	RA-226	2.08E+02	8.10E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
69 0.2 MI NNE (S SIDE OF WRHSE 9)	2/23/2011	1	TH-234	2.56E+02	1.25E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	PB-214	2.09E+01	8.60E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	K-40	2.07E+02	5.88E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	TL-208	5.76E+00	2.70E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	PB-212	1.40E+01	5.28E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	TH-234	1.83E+02	1.15E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	BI-214	2.01E+01	7.49E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	5/12/2011	1	RA-226	2.11E+02	8.19E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	TL-208	7.52E+00	4.77E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	PB-212	9.16E+00	6.43E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	BI-214	3.14E+01	9.74E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	PB-214	2.14E+01	8.31E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	RA-226	2.00E+02	9.19E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	TH-234	2.70E+02	1.17E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	8/18/2011	1	K-40	3.65E+02	5.61E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	K-40	2.40E+02	4.91E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	TL-208	8.55E+00	4.46E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	RA-226	2.23E+02	7.72E+01
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	PB-212	1.54E+01	7.12E+00
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	TH-234	2.31E+02	1.23E+02
69 0.2 MI NNE (S SIDE OF WRHSE 9)	11/3/2011	1	BI-214	1.79E+01	8.11E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	TL-208	6.45E+00	3.85E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	PB-214	2.26E+01	8.61E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	RA-226	2.20E+02	8.15E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	BI-214	2.96E+01	7.86E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	TH-234	2.83E+02	1.28E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	PB-212	2.16E+01	6.62E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	2/22/2011	1	K-40	2.03E+02	5.17E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	1	PB-212	1.03E+01	7.39E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	1	RA-226	2.09E+02	1.07E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	1	BI-214	1.70E+01	7.04E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	1	K-40	4.86E+02	7.35E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	5/12/2011	1	PB-214	1.78E+01	8.75E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	TL-208	6.26E+00	4.26E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	K-40	2.60E+02	5.25E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	PB-212	1.40E+01	5.74E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	BI-214	2.27E+01	8.86E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	RA-226	2.10E+02	7.08E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	TH-234	2.43E+02	1.23E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	8/18/2011	1	PB-214	1.54E+01	7.19E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	K-40	5.47E+02	7.60E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	PB-212	1.53E+01	7.50E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	RA-226	2.51E+02	9.10E+01
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	BI-214	2.00E+01	7.76E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	TH-234	2.00E+02	1.19E+02
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	PB-214	1.39E+01	8.68E+00
70 0.4 MI E (N SIDE OF PLANT ENTRANCE RD)	11/3/2011	1	TL-208	7.31E+00	4.29E+00
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	TL-208	3.60E+00	2.98E+00
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	K-40	2.40E+02	5.13E+01
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	PB-212	9.64E+00	5.05E+00
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	BI-214	1.97E+01	9.35E+00
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	PB-214	1.30E+01	7.75E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	RA-226	2.19E+02	9.13E+01
71 0.3 MI SE (S OF SWITCH YARD)	2/22/2011	1	TH-234	1.74E+02	1.17E+02
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	K-40	1.72E+02	6.13E+01
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	TL-208	5.45E+00	4.04E+00
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	PB-212	1.29E+01	6.63E+00
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	BI-214	2.38E+01	8.07E+00
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	PB-214	1.62E+01	8.09E+00
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	TH-234	4.17E+02	1.71E+02
71 0.3 MI SE (S OF SWITCH YARD)	5/12/2011	1	RA-226	1.67E+02	7.27E+01
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	TH-234	2.10E+02	1.20E+02
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	TL-208	6.82E+00	4.13E+00
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	PB-212	1.15E+01	6.88E+00
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	BI-214	2.60E+01	8.18E+00
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	PB-214	3.10E+01	8.62E+00
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	RA-226	1.52E+02	9.51E+01
71 0.3 MI SE (S OF SWITCH YARD)	8/18/2011	1	K-40	4.89E+02	6.77E+01
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	TL-208	9.07E+00	4.09E+00
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	PB-212	8.34E+00	6.35E+00
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	BI-214	3.44E+01	1.00E+01
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	PB-214	3.38E+01	9.39E+00
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	TH-234	1.78E+02	1.23E+02
71 0.3 MI SE (S OF SWITCH YARD)	11/2/2011	1	K-40	5.59E+02	7.88E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	1	K-40	5.92E+02	9.73E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	1	PB-212	1.70E+01	3.91E+00
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	1	BI-214	9.63E+02	6.74E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	1	PB-214	1.03E+02	6.47E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	2/22/2011	1	RA-226	3.09E+02	1.56E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	K-40	2.47E+02	5.61E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	BI-214	4.78E+02	3.71E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	PB-212	1.67E+01	5.78E+00
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	PB-214	5.21E+02	3.50E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	TH-234	2.90E+02	2.02E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	5/12/2011	1	RA-226	2.36E+02	1.44E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	BI-214	1.24E+03	1.15E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	PB-214	1.33E+03	1.12E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	TH-234	2.80E+02	2.03E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	RA-226	3.47E+02	1.65E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	PB-212	2.23E+01	1.08E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	K-40	2.27E+02	9.34E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	8/18/2011	1	TL-208	8.66E+00	4.80E+00
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	K-40	1.78E+02	7.13E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	BI-214	8.88E+02	8.39E+01
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	TL-208	1.11E+01	3.94E+00
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	PB-212	3.08E+01	9.93E+00
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	RA-226	2.78E+02	1.56E+02
72 0.2 MI SE (N CTMAKEUP WATER INTAKE STRUCTURE)	11/2/2011	1	PB-214	9.18E+02	7.90E+01
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	BI-214	4.09E+01	9.99E+00
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	PB-212	1.17E+01	6.21E+00
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	PB-214	4.08E+01	9.86E+00
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	RA-226	2.14E+02	8.19E+01
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	TH-234	2.49E+02	1.33E+02
73 0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	2/23/2011	1	K-40	3.24E+02	5.63E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	PB-212	1.85E+01	5.72E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	PB-214	2.27E+01	8.06E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	TL-208	6.82E+00	3.64E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	K-40	4.17E+02	6.94E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	BI-214	1.96E+01	9.65E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	RA-226	2.09E+02	9.97E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	5/12/2011	1	TH-234	2.85E+02	1.27E+02
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	8/18/2011	1	BI-214	2.10E+01	9.93E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	8/18/2011	1	K-40	4.74E+02	7.07E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	8/18/2011	1	TL-208	8.09E+00	3.70E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	8/18/2011	1	PB-214	1.21E+01	7.96E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	8/18/2011	1	RA-226	1.36E+02	9.02E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	TH-234	2.06E+02	1.74E+02
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	PB-212	5.70E+00	4.76E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	K-40	4.70E+02	6.78E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	BI-214	1.31E+01	7.63E+00
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	RA-226	1.00E+02	9.28E+01
73	0.2 MI S (N OF EMERG SRV WATER SCREENING STRUCT	11/3/2011	1	PB-214	1.22E+01	9.60E+00
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	2/22/2011	1	K-40	5.12E+02	7.07E+01
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	2/22/2011	1	RA-226	3.54E+02	1.36E+02
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	2/22/2011	1	PB-212	9.48E+00	6.97E+00
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	2/22/2011	1	BI-214	2.47E+01	8.29E+00
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	K-40	4.92E+02	7.10E+01
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	TL-208	8.28E+00	4.27E+00
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	BI-214	1.02E+01	7.35E+00
74	0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	PB-212	1.40E+01	6.64E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	RA-226	1.49E+02	1.02E+02
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	5/12/2011	1	PB-214	1.24E+01	8.30E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	TL-208	6.10E+00	3.49E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	PB-214	1.48E+01	8.56E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	RA-226	1.73E+02	8.43E+01
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	TH-234	1.29E+02	1.22E+02
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	K-40	6.15E+02	7.71E+01
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	PB-212	1.21E+01	7.80E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	8/18/2011	1	BI-214	2.72E+01	9.16E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	BI-214	3.48E+01	8.30E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	RA-226	2.01E+02	9.44E+01
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	PB-212	1.44E+01	7.87E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	TL-208	7.32E+00	4.46E+00
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	K-40	5.24E+02	7.00E+01
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	TH-234	2.18E+02	1.19E+02
74 0.2 MI SSE (N HELICOPTER LANDING PAD)	11/2/2011	1	PB-214	2.23E+01	7.74E+00
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	RA-226	2.02E+02	8.69E+01
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	BI-214	2.17E+01	8.78E+00
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	TL-208	8.82E+00	4.92E+00
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	K-40	2.46E+02	5.71E+01
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	PB-212	1.70E+01	6.07E+00
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	PB-214	2.39E+01	8.00E+00
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	2/22/2011	1	TH-234	2.53E+02	1.23E+02
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	RA-226	2.22E+02	8.21E+01
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	K-40	3.20E+02	5.87E+01
75 0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	TL-208	3.42E+00	3.10E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	PB-212	1.19E+01	6.54E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	PB-214	1.85E+01	8.19E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	TH-234	1.80E+02	1.32E+02
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	5/12/2011	1	BI-214	2.20E+01	8.09E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	PB-212	2.10E+01	7.56E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	TH-234	3.13E+02	1.34E+02
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	RA-226	1.46E+02	7.32E+01
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	BI-214	1.75E+01	8.63E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	PB-214	1.43E+01	8.56E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	K-40	2.09E+02	4.82E+01
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	8/18/2011	1	TL-208	5.84E+00	4.55E+00
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	11/2/2011	1	TH-234	1.62E+02	1.39E+02
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	11/2/2011	1	RA-226	1.49E+02	8.87E+01
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	11/2/2011	1	K-40	6.39E+02	8.44E+01
75	0.1 MI ESE (W OF SECURITY BLDG ENTRANCE)	11/2/2011	1	BI-214	2.44E+01	1.02E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	K-40	4.44E+02	7.66E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	TH-234	2.17E+02	1.41E+02
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	TL-208	6.06E+00	4.08E+00
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	PB-212	2.13E+01	6.82E+00
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	BI-214	1.60E+02	1.75E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	RA-226	3.23E+02	1.01E+02
76	0.1 MI S (INSD OCA BETWN SB & WPB)	2/22/2011	1	PB-214	1.58E+02	1.52E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	K-40	2.37E+02	5.73E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	PB-214	5.34E+01	9.88E+00
76	0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	BI-214	6.26E+01	1.05E+01
76	0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	TL-208	8.55E+00	3.94E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
76 0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	TH-234	1.45E+02	1.37E+02
76 0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	RA-226	1.75E+02	7.94E+01
76 0.1 MI S (INSD OCA BETWN SB & WPB)	5/12/2011	1	PB-212	1.66E+01	5.17E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	BI-214	6.10E+01	9.88E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	PB-214	5.63E+01	9.73E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	RA-226	1.38E+02	7.97E+01
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	TL-208	5.56E+00	3.66E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	TH-234	2.81E+02	1.22E+02
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	K-40	4.56E+02	6.93E+01
76 0.1 MI S (INSD OCA BETWN SB & WPB)	8/18/2011	1	PB-212	1.29E+01	6.20E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	RA-226	2.03E+02	8.13E+01
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	PB-214	2.82E+01	8.05E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	PB-212	1.70E+01	5.78E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	BI-214	2.29E+01	8.46E+00
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	TH-234	2.82E+02	1.25E+02
76 0.1 MI S (INSD OCA BETWN SB & WPB)	11/3/2011	1	K-40	2.92E+02	5.24E+01
77 0.4 MI S - BD-MW 1	2/21/2011	1	RA-226	2.22E+02	9.23E+01
77 0.4 MI S - BD-MW 1	2/21/2011	1	PB-214	2.71E+01	1.10E+01
77 0.4 MI S - BD-MW 1	2/21/2011	1	BI-214	3.91E+01	1.10E+01
77 0.4 MI S - BD-MW 1	2/21/2011	1	TH-234	2.57E+02	1.29E+02
77 0.4 MI S - BD-MW 1	2/21/2011	1	K-40	3.60E+02	6.20E+01
77 0.4 MI S - BD-MW 1	2/21/2011	1	PB-212	1.52E+01	6.35E+00
77 0.4 MI S - BD-MW 1	2/21/2011	1	TL-208	1.01E+01	4.05E+00
77 0.4 MI S - BD-MW 1	5/19/2011	1	BI-214	3.09E+01	9.55E+00
77 0.4 MI S - BD-MW 1	5/19/2011	1	TL-208	5.92E+00	3.06E+00
77 0.4 MI S - BD-MW 1	5/19/2011	1	K-40	4.72E+02	7.13E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
77 0.4 MI S - BD-MW 1	5/19/2011	1	PB-214	2.37E+01	7.89E+00
77 0.4 MI S - BD-MW 1	8/17/2011	1	BI-214	3.79E+01	1.07E+01
77 0.4 MI S - BD-MW 1	8/17/2011	1	PB-212	1.12E+01	5.81E+00
77 0.4 MI S - BD-MW 1	8/17/2011	1	K-40	5.54E+02	7.68E+01
77 0.4 MI S - BD-MW 1	8/17/2011	1	RA-226	8.13E+01	7.56E+01
77 0.4 MI S - BD-MW 1	8/17/2011	1	PB-214	2.98E+01	9.16E+00
77 0.4 MI S - BD-MW 1	11/2/2011	1	PB-212	1.07E+01	7.55E+00
77 0.4 MI S - BD-MW 1	11/2/2011	1	RA-226	1.81E+02	7.45E+01
77 0.4 MI S - BD-MW 1	11/2/2011	1	TH-234	1.39E+02	1.20E+02
77 0.4 MI S - BD-MW 1	11/2/2011	1	K-40	2.46E+02	5.90E+01
77 0.4 MI S - BD-MW 1	11/2/2011	1	PB-212	2.83E+01	7.28E+00
77 0.4 MI S - BD-MW 1	11/2/2011	1	BI-214	2.81E+01	8.50E+00
78 0.5 MI S - BD-MW 2	2/21/2011	1	PB-212	2.35E+01	6.01E+00
78 0.5 MI S - BD-MW 2	2/21/2011	1	TH-234	3.05E+02	1.79E+02
78 0.5 MI S - BD-MW 2	2/21/2011	1	K-40	2.42E+02	6.41E+01
78 0.5 MI S - BD-MW 2	2/21/2011	1	RA-226	1.92E+02	9.28E+01
78 0.5 MI S - BD-MW 2	2/21/2011	1	PB-214	1.81E+02	2.03E+01
78 0.5 MI S - BD-MW 2	2/21/2011	1	TL-208	7.94E+00	4.24E+00
78 0.5 MI S - BD-MW 2	2/21/2011	1	BI-214	1.86E+02	2.15E+01
78 0.5 MI S - BD-MW 2	5/19/2011	1	RA-226	1.93E+02	8.17E+01
78 0.5 MI S - BD-MW 2	5/19/2011	1	TH-234	3.32E+02	1.31E+02
78 0.5 MI S - BD-MW 2	5/19/2011	1	PB-212	1.14E+01	5.22E+00
78 0.5 MI S - BD-MW 2	5/19/2011	1	BI-214	4.59E+01	9.25E+00
78 0.5 MI S - BD-MW 2	5/19/2011	1	PB-214	3.77E+01	9.85E+00
78 0.5 MI S - BD-MW 2	5/19/2011	1	K-40	2.78E+02	5.36E+01
78 0.5 MI S - BD-MW 2	8/17/2011	1	BI-214	1.88E+02	2.00E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
78 0.5 MI S - BD-MW 2	8/17/2011	1	TH-234	1.80E+02	1.37E+02
78 0.5 MI S - BD-MW 2	8/17/2011	1	PB-212	3.78E+01	7.59E+00
78 0.5 MI S - BD-MW 2	8/17/2011	1	PB-214	1.97E+02	1.81E+01
78 0.5 MI S - BD-MW 2	8/17/2011	1	AC-228	4.22E+01	1.64E+01
78 0.5 MI S - BD-MW 2	8/17/2011	1	RA-226	3.36E+02	1.01E+02
78 0.5 MI S - BD-MW 2	8/17/2011	1	K-40	6.23E+02	7.30E+01
78 0.5 MI S - BD-MW 2	8/17/2011	1	TL-208	1.05E+01	4.75E+00
78 0.5 MI S - BD-MW 2	11/2/2011	1	PB-214	1.66E+02	1.70E+01
78 0.5 MI S - BD-MW 2	11/2/2011	1	BI-214	1.44E+02	1.78E+01
78 0.5 MI S - BD-MW 2	11/2/2011	1	TL-208	5.68E+01	7.90E+00
78 0.5 MI S - BD-MW 2	11/2/2011	1	AC-228	1.46E+02	2.39E+01
78 0.5 MI S - BD-MW 2	11/2/2011	1	PB-212	1.71E+02	1.34E+01
78 0.5 MI S - BD-MW 2	11/2/2011	1	RA-226	5.60E+02	1.32E+02
78 0.5 MI S - BD-MW 2	11/2/2011	1	K-40	9.13E+02	1.06E+02
78 0.5 MI S - BD-MW 2	11/2/2011	1	BI-212	1.21E+02	4.01E+01
78 0.5 MI S - BD-MW 2	11/2/2011	1	TH-234	3.57E+02	1.73E+02
79 0.5 MI S - BD-MW 3	2/21/2011	1	TH-234	2.22E+02	1.26E+02
79 0.5 MI S - BD-MW 3	2/21/2011	1	K-40	2.67E+02	4.69E+01
79 0.5 MI S - BD-MW 3	2/21/2011	1	BI-214	2.65E+01	7.78E+00
79 0.5 MI S - BD-MW 3	2/21/2011	1	PB-212	1.55E+01	4.77E+00
79 0.5 MI S - BD-MW 3	2/21/2011	1	TL-208	5.88E+00	3.47E+00
79 0.5 MI S - BD-MW 3	2/21/2011	1	PB-214	2.52E+01	8.06E+00
79 0.5 MI S - BD-MW 3	2/21/2011	1	RA-226	1.97E+02	7.91E+01
79 0.5 MI S - BD-MW 3	5/19/2011	1	RA-226	1.74E+02	7.04E+01
79 0.5 MI S - BD-MW 3	5/19/2011	1	K-40	2.32E+02	5.24E+01
79 0.5 MI S - BD-MW 3	5/19/2011	1	TH-234	2.89E+02	1.25E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
79 0.5 MI S - BD-MW 3	5/19/2011	1	BI-214	3.55E+01	9.67E+00
79 0.5 MI S - BD-MW 3	5/19/2011	1	PB-212	1.44E+01	5.58E+00
79 0.5 MI S - BD-MW 3	5/19/2011	1	PB-214	2.73E+01	8.78E+00
79 0.5 MI S - BD-MW 3	5/19/2011	1	TL-208	5.83E+00	4.25E+00
79 0.5 MI S - BD-MW 3	8/17/2011	1	PB-214	7.54E+01	1.16E+01
79 0.5 MI S - BD-MW 3	8/17/2011	1	TH-234	2.39E+02	1.33E+02
79 0.5 MI S - BD-MW 3	8/17/2011	1	K-40	2.76E+02	5.01E+01
79 0.5 MI S - BD-MW 3	8/17/2011	1	PB-212	1.81E+01	5.75E+00
79 0.5 MI S - BD-MW 3	8/17/2011	1	BI-214	8.52E+01	1.32E+01
79 0.5 MI S - BD-MW 3	8/17/2011	1	RA-226	2.34E+02	8.04E+01
79 0.5 MI S - BD-MW 3	8/17/2011	1	TL-208	4.46E+00	4.30E+00
79 0.5 MI S - BD-MW 3	11/2/2011	1	RA-226	1.59E+02	1.11E+02
79 0.5 MI S - BD-MW 3	11/2/2011	1	PB-214	2.05E+01	8.90E+00
79 0.5 MI S - BD-MW 3	11/2/2011	1	BI-214	2.00E+01	1.01E+01
79 0.5 MI S - BD-MW 3	11/2/2011	1	K-40	5.18E+02	7.67E+01
79 0.5 MI S - BD-MW 3	11/2/2011	1	TL-208	5.83E+00	3.70E+00
79 0.5 MI S - BD-MW 3	11/2/2011	1	PB-212	8.37E+00	6.34E+00
80 0.6 MI S - BD-MW 5	2/21/2011	1	PB-214	4.32E+01	8.49E+00
80 0.6 MI S - BD-MW 5	2/21/2011	1	PB-212	2.63E+01	7.97E+00
80 0.6 MI S - BD-MW 5	2/21/2011	1	TH-234	1.61E+02	1.32E+02
80 0.6 MI S - BD-MW 5	2/21/2011	1	RA-226	2.38E+02	7.77E+01
80 0.6 MI S - BD-MW 5	2/21/2011	1	BI-214	3.95E+01	8.72E+00
80 0.6 MI S - BD-MW 5	2/21/2011	1	K-40	2.67E+02	4.94E+01
80 0.6 MI S - BD-MW 5	5/19/2011	1	TH-234	3.31E+02	1.49E+02
80 0.6 MI S - BD-MW 5	5/19/2011	1	TL-208	4.69E+00	3.57E+00
80 0.6 MI S - BD-MW 5	5/19/2011	1	K-40	1.77E+02	5.15E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
80	0.6 MI S - BD-MW 5	5/19/2011	1	RA-226	2.08E+02	8.85E+01
80	0.6 MI S - BD-MW 5	5/19/2011	1	PB-214	3.01E+01	8.54E+00
80	0.6 MI S - BD-MW 5	5/19/2011	1	BI-214	2.86E+01	8.45E+00
80	0.6 MI S - BD-MW 5	5/19/2011	1	PB-212	9.05E+00	5.25E+00
80	0.6 MI S - BD-MW 5	8/17/2011	1	RA-226	1.64E+02	8.57E+01
80	0.6 MI S - BD-MW 5	8/17/2011	1	PB-212	1.52E+01	5.88E+00
80	0.6 MI S - BD-MW 5	8/17/2011	1	BI-214	4.64E+01	9.95E+00
80	0.6 MI S - BD-MW 5	8/17/2011	1	PB-214	3.30E+01	9.64E+00
80	0.6 MI S - BD-MW 5	8/17/2011	1	K-40	4.62E+02	6.95E+01
80	0.6 MI S - BD-MW 5	8/17/2011	1	TH-234	2.17E+02	1.10E+02
80	0.6 MI S - BD-MW 5	11/2/2011	1	RA-226	1.87E+02	8.60E+01
80	0.6 MI S - BD-MW 5	11/2/2011	1	K-40	2.50E+02	4.70E+01
80	0.6 MI S - BD-MW 5	11/2/2011	1	PB-212	1.53E+01	6.31E+00
80	0.6 MI S - BD-MW 5	11/2/2011	1	BI-214	3.65E+01	8.19E+00
80	0.6 MI S - BD-MW 5	11/2/2011	1	PB-214	2.87E+01	9.51E+00
80	0.6 MI S - BD-MW 5	11/2/2011	1	TH-234	2.87E+02	1.26E+02
81	0.6 MI S - BD-MW 7	2/21/2011	1	K-40	4.75E+02	6.63E+01
81	0.6 MI S - BD-MW 7	2/21/2011	1	TH-234	2.02E+02	1.11E+02
81	0.6 MI S - BD-MW 7	2/21/2011	1	BI-214	2.95E+01	1.00E+01
81	0.6 MI S - BD-MW 7	2/21/2011	1	RA-226	2.53E+02	1.00E+02
81	0.6 MI S - BD-MW 7	2/21/2011	1	PB-212	1.65E+01	5.39E+00
81	0.6 MI S - BD-MW 7	2/21/2011	1	TL-208	9.63E+00	3.96E+00
81	0.6 MI S - BD-MW 7	2/21/2011	1	PB-214	3.99E+01	1.09E+01
81	0.6 MI S - BD-MW 7	5/19/2011	1	TH-234	2.20E+02	1.20E+02
81	0.6 MI S - BD-MW 7	5/19/2011	1	BI-214	3.20E+01	7.70E+00
81	0.6 MI S - BD-MW 7	5/19/2011	1	RA-226	2.22E+02	7.75E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
81 0.6 MI S - BD-MW 7	5/19/2011	1	K-40	2.55E+02	5.38E+01
81 0.6 MI S - BD-MW 7	5/19/2011	1	PB-214	2.90E+01	8.60E+00
81 0.6 MI S - BD-MW 7	5/19/2011	1	PB-212	1.39E+01	5.08E+00
81 0.6 MI S - BD-MW 7	8/17/2011	1	K-40	5.84E+02	7.87E+01
81 0.6 MI S - BD-MW 7	8/17/2011	1	RA-226	1.24E+02	9.49E+01
81 0.6 MI S - BD-MW 7	8/17/2011	1	BI-214	3.20E+01	9.25E+00
81 0.6 MI S - BD-MW 7	8/17/2011	1	PB-214	3.66E+01	9.52E+00
81 0.6 MI S - BD-MW 7	8/17/2011	1	TH-234	1.17E+02	1.11E+02
81 0.6 MI S - BD-MW 7	11/2/2011	1	K-40	4.68E+02	6.80E+01
81 0.6 MI S - BD-MW 7	11/2/2011	1	TH-234	2.30E+02	1.30E+02
81 0.6 MI S - BD-MW 7	11/2/2011	1	RA-226	1.56E+02	9.27E+01
81 0.6 MI S - BD-MW 7	11/2/2011	1	PB-214	1.84E+01	7.23E+00
81 0.6 MI S - BD-MW 7	11/2/2011	1	BI-214	2.02E+01	7.08E+00
81 0.6 MI S - BD-MW 7	11/2/2011	1	TL-208	1.07E+01	4.26E+00
81 0.6 MI S - BD-MW 7	11/2/2011	1	PB-212	1.26E+01	7.03E+00
82 0.6 MI S - BD-MW 8	2/21/2011	1	PB-214	1.32E+02	1.33E+01
82 0.6 MI S - BD-MW 8	2/21/2011	1	TH-234	2.55E+02	1.50E+02
82 0.6 MI S - BD-MW 8	2/21/2011	1	K-40	2.90E+02	6.90E+01
82 0.6 MI S - BD-MW 8	2/21/2011	1	TL-208	6.22E+00	5.25E+00
82 0.6 MI S - BD-MW 8	2/21/2011	1	PB-212	1.32E+01	5.45E+00
82 0.6 MI S - BD-MW 8	2/21/2011	1	BI-214	1.28E+02	1.54E+01
82 0.6 MI S - BD-MW 8	2/21/2011	1	RA-226	2.67E+02	9.74E+01
82 0.6 MI S - BD-MW 8	5/19/2011	1	PB-214	6.01E+01	1.11E+01
82 0.6 MI S - BD-MW 8	5/19/2011	1	K-40	5.31E+02	7.08E+01
82 0.6 MI S - BD-MW 8	5/19/2011	1	BI-214	5.43E+01	1.09E+01
82 0.6 MI S - BD-MW 8	8/17/2011	1	TH-234	2.99E+02	1.47E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
82 0.6 MI S - BD-MW 8	8/17/2011	1	PB-212	1.36E+01	5.25E+00
82 0.6 MI S - BD-MW 8	8/17/2011	1	RA-226	1.55E+02	9.64E+01
82 0.6 MI S - BD-MW 8	8/17/2011	1	BI-214	6.19E+01	1.10E+01
82 0.6 MI S - BD-MW 8	8/17/2011	1	K-40	2.25E+02	5.18E+01
82 0.6 MI S - BD-MW 8	8/17/2011	1	TL-208	4.35E+00	2.89E+00
82 0.6 MI S - BD-MW 8	8/17/2011	1	PB-214	6.01E+01	1.03E+01
82 0.6 MI S - BD-MW 8	11/2/2011	1	PB-212	1.19E+01	5.94E+00
82 0.6 MI S - BD-MW 8	11/2/2011	1	RA-226	1.56E+02	1.17E+02
82 0.6 MI S - BD-MW 8	11/2/2011	1	BI-214	8.48E+01	1.24E+01
82 0.6 MI S - BD-MW 8	11/2/2011	1	TH-234	1.81E+02	1.33E+02
82 0.6 MI S - BD-MW 8	11/2/2011	1	PB-214	7.31E+01	1.13E+01
82 0.6 MI S - BD-MW 8	11/2/2011	1	K-40	5.61E+02	7.65E+01
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	K-40	5.51E+02	8.20E+01
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	RA-226	1.88E+02	1.02E+02
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	BI-214	2.95E+02	2.57E+01
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	PB-212	1.30E+01	7.50E+00
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	TL-208	5.30E+00	4.89E+00
83 1.6 MI SSW - BD-MW 16	2/21/2011	1	PB-214	3.11E+02	2.45E+01
83 1.6 MI SSW - BD-MW 16	5/19/2011	1	BI-214	1.19E+02	1.48E+01
83 1.6 MI SSW - BD-MW 16	5/19/2011	1	PB-214	1.08E+02	1.32E+01
83 1.6 MI SSW - BD-MW 16	5/19/2011	1	TH-234	2.67E+02	1.58E+02
83 1.6 MI SSW - BD-MW 16	5/19/2011	1	RA-226	1.81E+02	9.40E+01
83 1.6 MI SSW - BD-MW 16	5/19/2011	1	K-40	3.95E+02	7.40E+01
83 1.6 MI SSW - BD-MW 16	8/17/2011	1	K-40	5.23E+02	7.94E+01
83 1.6 MI SSW - BD-MW 16	8/17/2011	1	BI-214	2.44E+02	2.18E+01
83 1.6 MI SSW - BD-MW 16	8/17/2011	1	PB-214	2.41E+02	2.15E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
83 1.6 MI SSW - BD-MW 16	8/17/2011	1	RA-226	1.37E+02	1.33E+02
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	BI-214	1.44E+02	1.72E+01
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	PB-214	1.55E+02	1.51E+01
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	RA-226	2.68E+02	8.79E+01
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	TH-234	2.84E+02	1.50E+02
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	PB-212	2.15E+01	5.58E+00
83 1.6 MI SSW - BD-MW 16	11/2/2011	1	K-40	2.27E+02	5.33E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	1	K-40	2.11E+03	1.86E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	1	RA-226	1.33E+02	1.14E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	1/10/2011	1	BI-214	1.48E+01	7.67E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	1	RA-226	1.61E+02	1.10E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	1	BI-214	1.50E+01	7.81E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	1/24/2011	1	K-40	2.12E+03	1.89E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	1	BI-214	2.04E+01	1.07E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	1	RA-226	2.14E+02	1.43E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/7/2011	1	K-40	2.07E+03	1.88E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	TH-234	3.58E+02	1.85E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	K-40	1.70E+03	1.84E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	TL-208	5.73E+00	4.01E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	PB-212	1.22E+01	6.88E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	BI-214	2.77E+01	8.00E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	2/21/2011	1	RA-226	2.57E+02	9.23E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	K-40	1.55E+03	1.74E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	TL-208	5.22E+00	4.45E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	PB-212	8.74E+00	6.15E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	BI-214	2.76E+01	8.79E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	PB-214	1.97E+01	1.02E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	RA-226	1.86E+02	8.70E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/7/2011	1	TH-234	2.83E+02	1.59E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	1	PB-212	1.03E+01	7.18E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	1	K-40	1.91E+03	1.76E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	1	RA-226	1.32E+02	9.81E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	1	PB-214	9.31E+00	8.29E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	3/21/2011	1	BI-214	1.29E+01	8.76E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	1	PB-212	1.10E+01	7.99E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	1	BI-214	1.16E+01	8.75E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	1	K-40	1.98E+03	1.81E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/4/2011	1	RA-226	1.45E+02	1.33E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	PB-214	1.89E+01	9.64E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	TH-234	2.59E+02	1.49E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	K-40	1.62E+03	1.52E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	RA-226	1.89E+02	9.74E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	BI-214	1.16E+01	1.10E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	4/18/2011	1	PB-212	7.55E+00	6.54E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	1	RA-226	1.97E+02	1.07E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	1	BI-214	2.22E+01	1.00E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	1	PB-214	2.01E+01	7.77E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	5/2/2011	1	K-40	2.00E+03	1.80E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	BI-214	2.66E+01	1.14E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	PB-214	2.74E+01	9.78E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	PB-212	2.09E+01	8.15E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	K-40	1.88E+03	1.63E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	TH-234	1.99E+02	1.52E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/16/2011	1	RA-226	2.76E+02	1.22E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	1	K-40	1.90E+03	1.79E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	1	TL-208	4.09E+00	4.47E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	5/31/2011	1	RA-226	1.69E+02	1.25E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	1	TH-234	1.60E+02	1.43E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	1	K-40	1.98E+03	1.84E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	1	PB-212	1.04E+01	7.05E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	1	RA-226	1.93E+02	1.05E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/13/2011	1	PB-214	1.62E+01	8.46E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	PB-214	2.13E+01	1.32E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	BI-214	1.87E+01	1.16E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	K-40	2.01E+03	1.81E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	TH-234	2.69E+02	1.66E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	RA-226	1.31E+02	1.27E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	6/27/2011	1	PB-212	1.10E+01	8.82E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	PB-214	2.22E+01	9.63E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	PB-212	9.45E+00	6.00E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	RA-226	2.02E+02	7.88E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	K-40	1.64E+03	1.60E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	BI-214	1.89E+01	9.74E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/5/2011	1	TH-234	2.12E+02	1.38E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	TH-234	2.28E+02	1.55E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	BI-214	1.72E+01	1.06E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	PB-212	6.25E+00	5.86E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	K-40	1.66E+03	1.50E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	PB-214	1.54E+01	9.54E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	7/18/2011	1	RA-226	1.84E+02	9.39E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/1/2011	1	K-40	1.93E+03	1.76E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/1/2011	1	BI-214	1.83E+01	1.13E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	1	RA-226	1.55E+02	1.09E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	1	TL-208	5.50E+00	3.55E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	1	BI-214	1.08E+01	9.89E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	8/15/2011	1	K-40	2.02E+03	1.80E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/31/2011	1	K-40	1.68E+03	1.54E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	8/31/2011	1	PB-214	2.19E+01	1.11E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/31/2011	1	RA-226	2.37E+02	9.90E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	8/31/2011	1	BI-214	2.30E+01	1.05E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	1	K-40	1.67E+03	1.57E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	1	BI-214	2.53E+01	9.76E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	1	PB-214	2.32E+01	9.20E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	1	RA-226	2.35E+02	8.89E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/12/2011	1	TH-234	2.09E+02	1.33E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	1	RA-226	2.13E+02	9.78E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	1	PB-212	1.19E+01	6.65E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	1	TH-234	3.77E+02	1.46E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	1	K-40	1.58E+03	1.71E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	9/26/2011	1	BI-214	1.08E+01	7.82E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	PB-214	1.90E+01	9.45E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	TH-234	2.82E+02	1.46E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	BI-214	2.89E+01	9.57E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	K-40	1.57E+03	1.76E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	RA-226	2.31E+02	9.48E+01
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	TL-208	7.87E+00	4.54E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	10/10/2011	1	PB-212	1.32E+01	8.37E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	RA-226	1.95E+02	1.01E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	PB-214	1.27E+01	7.91E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	K-40	1.61E+03	1.71E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	TL-208	4.39E+00	4.03E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	PB-212	1.18E+01	6.03E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	TH-234	2.25E+02	1.42E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	11/7/2011	1	BI-214	1.32E+01	8.44E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	TL-208	8.01E+00	4.10E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	K-40	1.93E+03	1.68E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	PB-214	1.42E+01	9.23E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	PB-212	1.32E+01	8.04E+00
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	TH-234	3.33E+02	1.35E+02
5 >12 MILES WNW - PITTSBORO - CONTROL	12/5/2011	1	RA-226	3.03E+02	1.19E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	K-40	1.98E+03	1.74E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	RA-226	2.12E+02	1.30E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	AC-228	3.42E+01	1.64E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	BI-214	1.41E+01	1.04E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	PB-212	1.72E+01	7.36E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	PB-214	1.51E+01	9.86E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/16/2011	1	TH-234	2.10E+02	1.32E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	1	TH-234	1.95E+02	1.43E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	1	K-40	1.95E+03	1.72E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	1	PB-212	1.24E+01	6.23E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	1	BI-214	1.78E+01	1.14E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	5/31/2011	1	RA-226	1.44E+02	7.03E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	1	PB-214	3.25E+01	1.09E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	1	K-40	1.90E+03	1.68E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	1	BI-214	3.88E+01	8.95E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	1	RA-226	2.12E+02	8.37E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/13/2011	1	PB-212	1.19E+01	5.83E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	1	PB-214	3.10E+01	1.18E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	1	RA-226	2.03E+02	9.83E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	1	K-40	2.06E+03	1.76E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	1	TH-234	2.51E+02	1.29E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	6/27/2011	1	BI-214	2.43E+01	1.24E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/5/2011	1	BI-214	1.10E+01	8.24E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/5/2011	1	K-40	2.26E+03	1.98E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/5/2011	1	PB-214	1.92E+01	9.03E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/5/2011	1	PB-212	8.84E+00	7.21E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/18/2011	1	K-40	2.24E+03	2.02E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/18/2011	1	PB-212	8.51E+00	7.25E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/18/2011	1	BI-214	1.60E+01	7.30E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	7/18/2011	1	PB-214	1.03E+01	9.72E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	PB-212	1.24E+01	5.93E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	BI-214	1.31E+01	8.94E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	RA-226	1.77E+02	9.65E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	TH-234	2.24E+02	1.71E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	K-40	2.02E+03	1.77E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/1/2011	1	PB-214	1.09E+01	9.12E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	K-40	1.97E+03	2.04E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	TL-208	5.53E+00	5.13E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	PB-212	9.07E+00	8.19E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	BI-214	2.64E+01	9.91E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	PB-214	2.38E+01	9.67E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	TH-234	3.00E+02	1.75E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	8/15/2011	1	RA-226	2.52E+02	9.30E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/12/2011	1	K-40	2.24E+03	1.98E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/12/2011	1	PB-214	2.88E+01	1.13E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/12/2011	1	BI-214	1.55E+01	1.07E+01
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/12/2011	1	RA-226	2.45E+02	1.55E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	1	BI-214	1.41E+01	8.47E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	1	RA-226	2.11E+02	1.15E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	1	K-40	1.43E+03	1.38E+02
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	1	PB-212	1.10E+01	6.56E+00
96 4.6 MI ESE HUMBUG FARM ON SR 1127	9/26/2011	1	TH-234	1.58E+02	1.31E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Bottom Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	PB-214	6.47E-01	1.19E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	AC-228	1.02E+00	2.30E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	RA-226	2.18E+00	8.51E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	BI-214	5.61E-01	1.13E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	BI-212	7.55E-01	3.35E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	TL-208	3.43E-01	6.56E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	CS-137	2.45E-01	5.76E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	CO-60	8.17E-01	1.10E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	PB-212	9.79E-01	1.14E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/27/2011	817.7	K-40	1.08E+01	1.30E+00
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	CO-60	6.42E-01	9.36E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	AC-228	9.44E-01	2.08E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	RA-226	2.73E+00	7.83E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	PB-214	7.15E-01	1.10E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	BI-214	5.88E-01	1.10E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	BI-212	5.88E-01	3.12E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	TL-208	2.75E-01	5.61E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	CS-137	2.42E-01	6.43E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	K-40	9.25E+00	1.01E+00
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/12/2011	879.8	PB-212	7.50E-01	8.30E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26	4.7 MILES S	1/27/2011	1414.7	AC-228	2.71E-01	1.18E-01
26	4.7 MILES S	1/27/2011	1414.7	PB-214	2.53E-01	7.87E-02
26	4.7 MILES S	1/27/2011	1414.7	BI-214	1.60E-01	4.59E-02
26	4.7 MILES S	1/27/2011	1414.7	TL-208	1.07E-01	3.20E-02
26	4.7 MILES S	1/27/2011	1414.7	BE-7	2.13E-01	1.69E-01
26	4.7 MILES S	1/27/2011	1414.7	K-40	1.45E+01	1.36E+00
26	4.7 MILES S	1/27/2011	1414.7	PB-212	2.87E-01	6.36E-02
26	4.7 MILES S	1/27/2011	1414.7	RA-226	1.23E+00	7.59E-01
26	4.7 MILES S	7/12/2011	1353.4	K-40	1.20E+01	1.19E+00
26	4.7 MILES S	7/12/2011	1353.4	BE-7	3.16E-01	1.98E-01
26	4.7 MILES S	7/12/2011	1353.4	TL-208	8.24E-02	3.22E-02
26	4.7 MILES S	7/12/2011	1353.4	PB-212	2.99E-01	5.11E-02
26	4.7 MILES S	7/12/2011	1353.4	PB-214	2.28E-01	5.74E-02
26	4.7 MILES S	7/12/2011	1353.4	RA-226	1.32E+00	6.36E-01
26	4.7 MILES S	7/12/2011	1353.4	AC-228	3.12E-01	1.16E-01
26	4.7 MILES S	7/12/2011	1353.4	BI-214	2.46E-01	7.41E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	K-40	1.18E+01	1.16E+00
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	RA-226	1.08E+00	5.12E-01
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	AC-228	3.52E-01	9.91E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	PB-214	2.23E-01	7.28E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	PB-212	2.41E-01	4.47E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	TL-208	5.69E-02	2.38E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/27/2011	1617.6	BI-214	2.22E-01	6.86E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	TL-208	7.90E-02	2.98E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	BE-7	2.81E-01	2.67E-01
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	AC-228	2.93E-01	9.76E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	RA-226	8.72E-01	5.39E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	PB-214	2.32E-01	7.77E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	BI-214	2.61E-01	8.19E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	PB-212	2.87E-01	4.90E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/12/2011	1611.1	K-40	1.30E+01	1.20E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
26 4.7 MILES S	1/14/2011	1	TH-234	1.02E+02	5.83E+01
26 4.7 MILES S	1/14/2011	1	RA-226	1.31E+02	4.39E+01
26 4.7 MILES S	1/14/2011	1	BI-214	1.24E+01	3.43E+00
26 4.7 MILES S	1/14/2011	1	PB-212	6.53E+00	3.81E+00
26 4.7 MILES S	1/14/2011	1	TL-208	4.86E+00	2.08E+00
26 4.7 MILES S	1/14/2011	1	K-40	5.56E+02	4.87E+01
26 4.7 MILES S	1/14/2011	1	AC-228	1.07E+01	6.56E+00
26 4.7 MILES S	2/14/2011	1	PB-212	6.67E+00	2.99E+00
26 4.7 MILES S	2/14/2011	1	AC-228	1.43E+01	7.17E+00
26 4.7 MILES S	2/14/2011	1	TH-234	1.02E+02	6.53E+01
26 4.7 MILES S	2/14/2011	1	PB-214	9.73E+00	3.85E+00
26 4.7 MILES S	2/14/2011	1	TL-208	4.46E+00	1.78E+00
26 4.7 MILES S	2/14/2011	1	RA-226	1.09E+02	4.49E+01
26 4.7 MILES S	2/14/2011	1	BI-214	1.42E+01	3.70E+00
26 4.7 MILES S	2/14/2011	1	K-40	5.34E+02	4.69E+01
26 4.7 MILES S	3/14/2011	1	TL-208	2.62E+00	1.70E+00
26 4.7 MILES S	3/14/2011	1	BI-214	1.52E+01	3.95E+00
26 4.7 MILES S	3/14/2011	1	K-40	2.43E+02	3.18E+01
26 4.7 MILES S	3/14/2011	1	TH-234	2.05E+02	7.16E+01
26 4.7 MILES S	3/14/2011	1	PB-212	1.03E+01	2.72E+00
26 4.7 MILES S	3/14/2011	1	RA-226	1.87E+02	3.46E+01
26 4.7 MILES S	3/14/2011	1	PB-214	1.81E+01	4.02E+00
26 4.7 MILES S	4/11/2011	1	TH-234	2.43E+02	6.07E+01
26 4.7 MILES S	4/11/2011	1	AC-228	1.27E+01	7.66E+00
26 4.7 MILES S	4/11/2011	1	RA-226	2.19E+02	4.67E+01
26 4.7 MILES S	4/11/2011	1	PB-214	1.19E+01	3.62E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26	4.7 MILES S	4/11/2011	1	BI-214	1.91E+01	4.50E+00
26	4.7 MILES S	4/11/2011	1	PB-212	1.31E+01	2.94E+00
26	4.7 MILES S	4/11/2011	1	TL-208	5.81E+00	1.94E+00
26	4.7 MILES S	4/11/2011	1	K-40	4.29E+02	3.77E+01
26	4.7 MILES S	5/13/2011	1	PB-212	6.80E+00	3.18E+00
26	4.7 MILES S	5/13/2011	1	BI-214	1.42E+01	4.56E+00
26	4.7 MILES S	5/13/2011	1	TH-234	1.37E+02	6.30E+01
26	4.7 MILES S	5/13/2011	1	TL-208	4.55E+00	1.90E+00
26	4.7 MILES S	5/13/2011	1	RA-226	1.21E+02	4.39E+01
26	4.7 MILES S	5/13/2011	1	AC-228	1.21E+01	6.82E+00
26	4.7 MILES S	5/13/2011	1	PB-214	9.22E+00	3.23E+00
26	4.7 MILES S	5/13/2011	1	K-40	5.66E+02	4.94E+01
26	4.7 MILES S	6/13/2011	1	TL-208	4.22E+00	1.85E+00
26	4.7 MILES S	6/13/2011	1	RA-226	1.88E+02	3.75E+01
26	4.7 MILES S	6/13/2011	1	K-40	2.53E+02	2.96E+01
26	4.7 MILES S	6/13/2011	1	TH-234	2.08E+02	6.17E+01
26	4.7 MILES S	6/13/2011	1	PB-212	7.69E+00	2.39E+00
26	4.7 MILES S	6/13/2011	1	PB-214	1.48E+01	4.28E+00
26	4.7 MILES S	6/13/2011	1	AC-228	1.03E+01	6.05E+00
26	4.7 MILES S	6/13/2011	1	BI-214	1.57E+01	3.88E+00
26	4.7 MILES S	7/11/2011	1	PB-212	9.18E+00	2.58E+00
26	4.7 MILES S	7/11/2011	1	TL-208	5.23E+00	2.06E+00
26	4.7 MILES S	7/11/2011	1	K-40	2.70E+02	3.28E+01
26	4.7 MILES S	7/11/2011	1	TH-234	2.16E+02	5.05E+01
26	4.7 MILES S	7/11/2011	1	PB-214	1.42E+01	3.74E+00
26	4.7 MILES S	7/11/2011	1	BI-214	1.16E+01	3.63E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>		<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26	4.7 MILES S	7/11/2011	1	RA-226	1.88E+02	3.18E+01
26	4.7 MILES S	8/11/2011	1	RA-226	1.87E+02	3.94E+01
26	4.7 MILES S	8/11/2011	1	PB-214	1.59E+01	4.07E+00
26	4.7 MILES S	8/11/2011	1	TH-234	1.97E+02	5.96E+01
26	4.7 MILES S	8/11/2011	1	BI-214	1.57E+01	3.13E+00
26	4.7 MILES S	8/11/2011	1	K-40	2.40E+02	2.73E+01
26	4.7 MILES S	8/11/2011	1	PB-212	1.18E+01	2.75E+00
26	4.7 MILES S	8/11/2011	1	TL-208	3.69E+00	1.75E+00
26	4.7 MILES S	9/12/2011	1	PB-212	5.94E+00	2.87E+00
26	4.7 MILES S	9/12/2011	1	TH-234	1.08E+02	6.31E+01
26	4.7 MILES S	9/12/2011	1	TL-208	3.62E+00	2.05E+00
26	4.7 MILES S	9/12/2011	1	BI-214	8.43E+00	3.37E+00
26	4.7 MILES S	9/12/2011	1	PB-214	4.55E+00	4.21E+00
26	4.7 MILES S	9/12/2011	1	RA-226	1.33E+02	5.17E+01
26	4.7 MILES S	9/12/2011	1	K-40	4.98E+02	4.65E+01
26	4.7 MILES S	10/13/2011	1	PB-214	1.80E+01	4.09E+00
26	4.7 MILES S	10/13/2011	1	TL-208	3.37E+00	1.37E+00
26	4.7 MILES S	10/13/2011	1	RA-226	1.89E+02	3.66E+01
26	4.7 MILES S	10/13/2011	1	BI-214	1.97E+01	4.45E+00
26	4.7 MILES S	10/13/2011	1	PB-212	8.15E+00	2.59E+00
26	4.7 MILES S	10/13/2011	1	TH-234	2.02E+02	6.05E+01
26	4.7 MILES S	10/13/2011	1	K-40	2.28E+02	2.71E+01
26	4.7 MILES S	11/14/2011	1	PB-214	5.65E+00	3.58E+00
26	4.7 MILES S	11/14/2011	1	BI-214	1.40E+01	4.25E+00
26	4.7 MILES S	11/14/2011	1	PB-212	6.87E+00	2.54E+00
26	4.7 MILES S	11/14/2011	1	TL-208	3.81E+00	2.13E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26 4.7 MILES S	11/14/2011	1	K-40	5.19E+02	4.70E+01
26 4.7 MILES S	11/14/2011	1	RA-226	1.44E+02	4.33E+01
26 4.7 MILES S	11/14/2011	1	TH-234	1.16E+02	7.01E+01
26 4.7 MILES S	12/12/2011	1	TL-208	4.90E+00	1.70E+00
26 4.7 MILES S	12/12/2011	1	PB-214	1.65E+01	3.89E+00
26 4.7 MILES S	12/12/2011	1	BI-214	1.84E+01	4.36E+00
26 4.7 MILES S	12/12/2011	1	RA-226	1.84E+02	3.51E+01
26 4.7 MILES S	12/12/2011	1	PB-212	9.93E+00	2.44E+00
26 4.7 MILES S	12/12/2011	1	K-40	2.37E+02	2.96E+01
26 4.7 MILES S	12/12/2011	1	TH-234	1.88E+02	6.17E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	TL-208	7.06E+00	2.42E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	PB-212	6.47E+00	2.43E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	K-40	2.47E+02	2.69E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	TH-234	1.85E+02	5.07E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	RA-226	1.65E+02	3.77E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	PB-214	1.87E+01	4.02E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2011	1	BI-214	2.05E+01	4.22E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	K-40	2.49E+02	3.00E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	TL-208	4.64E+00	2.30E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	PB-212	8.97E+00	2.56E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	BI-214	2.43E+01	4.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	TH-234	1.85E+02	6.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	RA-226	1.97E+02	4.47E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2011	1	PB-214	1.83E+01	3.77E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	PB-212	6.95E+00	3.59E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	TH-234	1.02E+02	5.92E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	TL-208	3.34E+00	1.71E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	K-40	5.46E+02	4.95E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	RA-226	9.41E+01	4.14E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	PB-214	1.04E+01	4.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2011	1	BI-214	1.29E+01	4.48E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	BI-214	7.93E+00	3.56E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	PB-214	7.22E+00	3.50E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	K-40	5.19E+02	4.55E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	TL-208	5.89E+00	2.52E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	TH-234	1.36E+02	5.77E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	RA-226	1.39E+02	4.76E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	AC-228	1.15E+01	6.46E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2011	1	PB-212	5.52E+00	2.92E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	AC-228	1.29E+01	6.50E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	RA-226	1.73E+02	3.73E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	TL-208	3.19E+00	1.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	BI-212	1.21E+01	1.11E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	BI-214	1.77E+01	3.87E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	K-40	2.34E+02	3.09E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	TH-234	2.33E+02	6.13E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	PB-214	1.69E+01	3.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2011	1	PB-212	1.15E+01	3.00E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	PB-214	1.18E+01	3.88E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	BI-214	1.70E+01	3.77E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	PB-212	4.65E+00	2.63E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	TL-208	3.70E+00	1.62E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	RA-226	9.53E+01	3.97E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	K-40	4.84E+02	4.37E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2011	1	TH-234	9.89E+01	6.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	TH-234	2.23E+02	6.60E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	RA-226	2.17E+02	4.49E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	PB-214	1.58E+01	4.14E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	BI-214	2.07E+01	4.26E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	TL-208	5.67E+00	1.80E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	K-40	2.32E+02	3.12E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2011	1	PB-212	1.15E+01	2.78E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	BI-214	1.70E+01	4.33E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	K-40	2.15E+02	3.06E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	PB-212	1.08E+01	2.52E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	PB-214	1.55E+01	4.01E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	RA-226	1.91E+02	4.26E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	AC-228	9.71E+00	5.22E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	TH-234	2.76E+02	6.96E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2011	1	TL-208	6.64E+00	1.90E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	RA-226	2.06E+02	4.72E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	TH-234	2.20E+02	5.43E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	K-40	2.81E+02	2.76E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	BI-214	8.66E+00	3.46E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	PB-212	7.33E+00	2.63E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	TL-208	2.93E+00	2.32E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2011	1	PB-214	8.48E+00	3.43E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	K-40	5.08E+02	4.57E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	TL-208	4.08E+00	1.70E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	PB-212	8.50E+00	3.15E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	BI-214	1.09E+01	3.85E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	PB-214	5.71E+00	3.18E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	TH-234	1.41E+02	7.01E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2011	1	RA-226	1.24E+02	4.35E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	RA-226	2.06E+02	3.47E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	K-40	2.31E+02	2.98E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	BI-214	1.68E+01	4.41E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	TH-234	2.27E+02	5.61E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	TL-208	4.07E+00	1.74E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	PB-212	8.94E+00	2.99E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	AC-228	1.14E+01	6.37E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2011	1	PB-214	1.14E+01	4.25E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	K-40	4.98E+02	4.48E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	RA-226	1.19E+02	4.81E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	AC-228	1.54E+01	6.71E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	PB-212	7.80E+00	3.14E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	BI-214	7.96E+00	3.56E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	TH-234	1.62E+02	7.73E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	TL-208	3.54E+00	1.96E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2011	1	PB-214	9.18E+00	3.52E+00
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	TH-234	1.96E+02	5.57E+01
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	K-40	2.36E+02	3.06E+01
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	TL-208	7.00E+00	2.08E+00
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	PB-214	1.88E+01	4.15E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	RA-226	1.86E+02	3.74E+01
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	BI-214	1.67E+01	3.88E+00
40 LILLINGTON - CAPE FEAR RIVER	1/14/2011	1	PB-212	1.31E+01	3.06E+00
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	BI-212	1.95E+01	1.14E+01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	TH-234	2.35E+02	5.58E+01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	RA-226	1.93E+02	3.95E+01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	TL-208	5.88E+00	1.65E+00
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	K-40	2.21E+02	2.99E+01
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	PB-212	1.33E+01	2.27E+00
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	PB-214	1.40E+01	3.85E+00
40 LILLINGTON - CAPE FEAR RIVER	2/14/2011	1	BI-214	1.69E+01	3.34E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	BI-214	1.83E+01	4.04E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	K-40	2.38E+02	3.02E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	PB-212	1.14E+01	2.80E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	RA-226	1.98E+02	3.95E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	TH-234	2.05E+02	5.63E+01
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	PB-214	1.65E+01	4.19E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2011	1	TL-208	4.83E+00	1.77E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	K-40	2.51E+02	3.10E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	PB-214	9.84E+00	3.95E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	TL-208	4.41E+00	2.33E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	PB-212	7.62E+00	2.53E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	BI-214	1.39E+01	4.37E+00
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	RA-226	1.80E+02	4.02E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	TH-234	2.04E+02	5.10E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2011	1	AC-228	8.85E+00	5.62E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	PB-214	1.60E+01	3.62E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	K-40	4.18E+02	3.81E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	TL-208	5.82E+00	1.95E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	PB-212	1.43E+01	2.78E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	RA-226	1.87E+02	4.11E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	AC-228	1.60E+01	6.23E+00
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	TH-234	2.27E+02	5.49E+01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2011	1	BI-214	2.02E+01	4.34E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	TL-208	3.91E+00	1.74E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	TH-234	2.17E+02	5.91E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	AC-228	5.22E+00	4.67E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	RA-226	1.62E+02	3.60E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	PB-212	9.48E+00	2.73E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	K-40	2.18E+02	2.92E+01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	PB-214	1.43E+01	4.27E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2011	1	BI-214	1.61E+01	3.97E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	TL-208	5.11E+00	1.88E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	K-40	3.96E+02	3.67E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	BI-212	1.55E+01	1.24E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	BI-214	1.84E+01	4.18E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	AC-228	1.61E+01	4.39E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	TH-234	2.58E+02	6.52E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	PB-212	1.27E+01	2.48E+00
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	RA-226	2.20E+02	4.43E+01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2011	1	PB-214	1.63E+01	4.00E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	K-40	3.85E+02	3.65E+01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	RA-226	2.00E+02	4.32E+01
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	PB-214	1.60E+01	4.39E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	AC-228	2.08E+01	7.04E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	BI-214	1.46E+01	3.09E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	PB-212	1.29E+01	3.00E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	TL-208	4.52E+00	2.23E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2011	1	TH-234	2.77E+02	6.07E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	TL-208	4.52E+00	1.83E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	RA-226	1.79E+02	3.72E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	PB-214	1.49E+01	4.12E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	K-40	2.32E+02	2.98E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	AC-228	7.75E+00	4.04E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	TH-234	2.68E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	BI-214	1.33E+01	3.37E+00
40 LILLINGTON - CAPE FEAR RIVER	9/12/2011	1	PB-212	1.10E+01	2.56E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	PB-214	2.01E+01	4.01E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	K-40	2.37E+02	3.03E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	TH-234	2.05E+02	5.45E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	RA-226	1.79E+02	3.69E+01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	BI-214	1.96E+01	4.20E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	PB-212	9.83E+00	2.48E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	TL-208	3.94E+00	2.33E+00
40 LILLINGTON - CAPE FEAR RIVER	10/13/2011	1	AC-228	1.19E+01	5.66E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	TH-234	2.36E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	K-40	2.26E+02	3.11E+01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	TL-208	4.39E+00	1.64E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

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<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	RA-226	1.94E+02	3.99E+01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	PB-212	8.59E+00	2.47E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	BI-214	1.70E+01	3.82E+00
40 LILLINGTON - CAPE FEAR RIVER	11/14/2011	1	PB-214	1.16E+01	3.01E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	TH-234	2.58E+02	6.01E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	PB-214	1.18E+01	3.90E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	K-40	2.22E+02	2.78E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	TL-208	3.67E+00	1.51E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	PB-212	8.87E+00	2.91E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	BI-214	1.27E+01	3.63E+00
40 LILLINGTON - CAPE FEAR RIVER	12/12/2011	1	RA-226	1.97E+02	3.69E+01