Progress Energy

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

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. DPR-71 and DPR-62
Docket Nos. 50-325 and 50-324
Radiological Environmental Operating Report for 2011

Ladies and Gentlemen:

In accordance with Technical Specification (TS) 5.6.2 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., is submitting the enclosed Radiological Environmental Operating Report for 2011.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Lee Grzeck, Acting Supervisor - Licensing/Regulatory Programs, at (910) 457-2487.

Sincerely,

Annette H. Pope

Annette H. Pope
Manager - Support Services
Brunswick Steam Electric Plant

MAT/mat

Enclosure:

Radiological Environmental Operating Report for 2011

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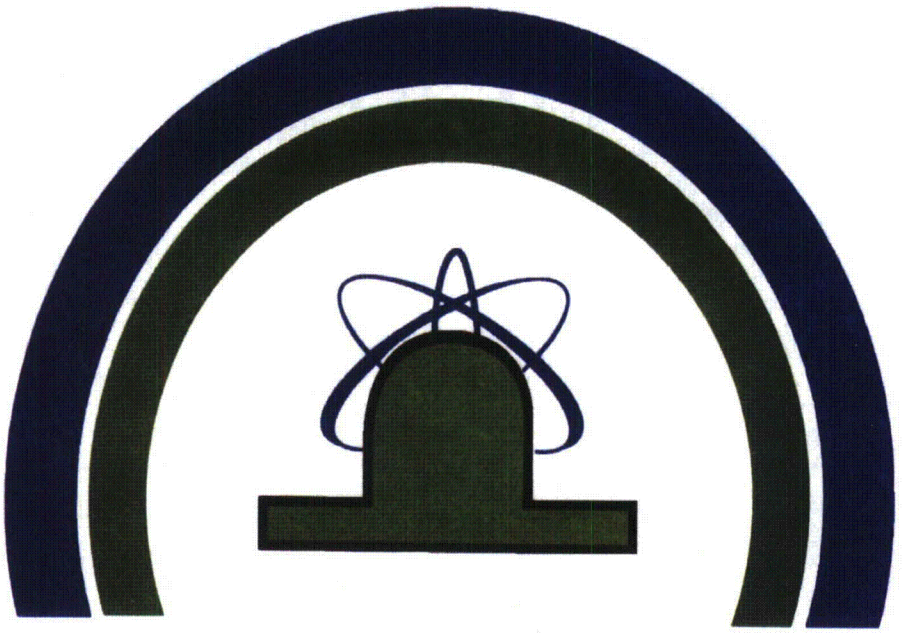
Radiological Environmental Operating Report for 2011

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT 2011



BRUNSWICK STEAM ELECTRIC PLANT

CAROLINA POWER & LIGHT COMPANY

Now Doing Business as

PROGRESS ENERGY CAROLINAS, INC.

SHEARON HARRIS ENERGY & ENVIRONMENTAL CENTER
CAROLINA POWER & LIGHT COMPANY
NOW DOING BUSINESS AS
PROGRESS ENERGY CAROLINAS, INC.
NEW HILL, NORTH CAROLINA

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
FOR
BRUNSWICK STEAM ELECTRIC PLANT
JANUARY 1 THROUGH DECEMBER 31, 2011

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EXECUTIVE SUMMARY

The Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, is operated by Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., under licenses granted by the Nuclear Regulatory Commission (NRC). BSEP Technical Specification 5.6.2 and the BSEP Offsite Dose Calculation Manual (ODCM) establish the requirements of the Radiological Environmental Monitoring Program (REMP). This report provides the results of the REMP from January 1, 2011 through December 31, 2011.

The REMP was established in 1973. Radiation and radioactivity in various environmental media have been monitored for more than 35 years, including monitoring in excess of a year prior to commencing operation. Monitoring is also provided for control locations which would not be impacted by operations of BSEP. Using the data from the control locations and the historical data collected prior to operation, analyses of data from locations which could potentially be impacted by the operations of BSEP were performed. Radiation levels show no measurable 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), and broadleaf vegetation locations identified the presence of low levels of radioactive iodine-131, Cs-134, and Cs-137. The detectable concentrations were not a result of BSEP operations given the following facts:

    - The quantity of radioactive iodine in BSEP'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 BSEP 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 BSEP.

- Air-monitoring results are similar or less 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 was unavailable due to no milk (milch) animals (goat or cow) currently identified within the environs of the plant; therefore, no exposure pathway exists.

- Terrestrial vegetation includes broadleaf vegetation from indicator and control locations.

Results indicate that Cesium (Cs)-134, Cesium (Cs)-137, and Iodine (I)-131 activity was detected in both indicator and control samples following the Fukushima Dai-ichi nuclear power plant incident. No other gamma activity was detected in any sample except for K-40 (potassium-40) and other naturally occurring gamma activity.

- Aquatic organism monitoring includes fish (free swimmers and bottom feeders), invertebrates (shellfish (SH)), and Benthic organisms (organisms that live on the bottom of the ocean (BO)). Results indicated no detectable plant - related activity.

- Surface water results indicate no by-product/plant-related gamma activity; however, some surface water samples detect the presence of tritium, which is attributed to plant operations. The tritium activity attributed to plant operations is well below the EPA reportable non-drinking water limit (30,000 pCi/Liter or 3.00E+4 pCi/Liter). Refer to the Interpretations and Conclusions Section / Surface Water and Figure 22.

- Shoreline Sediment results indicate that a shoreline sediment indicator sample detected the presence of Cs-137 activity. No other gamma activity was detected in any sample except for K-40 (potassium-40) and other naturally occurring gamma activity. Therefore, results indicated no detectable plant-related activity.

- External radiation dose showed no measurable change from pre-operational data.

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

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

PURPOSE AND REQUIREMENTS FOR THE RADIOLOGICAL MONITORING PROGRAM

Although the operation of a nuclear generating station results in the raising of background radiation only a small amount, it is important to measure these emissions of radioactivity and radiation to assess their impact on the surrounding populations. The purpose of the REMP is to measure accumulation of radioactivity in the environments, to determine whether this radioactivity is the result of operations of BSEP 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 containment and radiological controls of nuclear generating stations.

The REMP was established in 1973 and continues to collect samples and evaluate them.

Requirements are established for the radiological monitoring program as follows:

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

Additional guidance regarding the radiological monitoring program may be found in the following:

- NRC Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I"
- NRC Regulatory Guide 4.13, "Performance, Testing, and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications"
- NRC Regulatory Guide 4.15 revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment"

General Site Description

BSEP consists of two boiling water reactors with a design rating of 2923 megawatts thermal. Commercial production was initiated by Unit 2 on November 3, 1975 and by Unit 1 on March 18, 1977. BSEP is located in Brunswick County, North Carolina. The site is along state route 87 approximately two and a half miles north of Southport and is displayed on the map of southeastern North Carolina (Figure 1). The community of Boiling Spring Lakes is about three miles northwest of the site. The towns of Caswell Beach and Oak Island are on a barrier island south of the plant. The site is also approximately 16 miles south of Wilmington, North Carolina.

Figure 1: Location of Brunswick Steam Electric Plant

The Cape Fear River is east of the plant, and cooling water is drawn from the river through a canal. The cooling water is discharged to the Atlantic Ocean through a canal, pumping station, and piping. The discharge point is south of the town of Caswell Beach.

The plant site varies in elevation from sea level to 30 feet above mean sea level (MSL). It is surrounded by extensive marshes. The lower Cape Fear River is an important nursery area for shellfish, and other marine species.

The local economy supports significant recreational, industrial, agricultural, and government contributions. There is well-developed recreational use of the barrier islands south and east of the site. Fishing and boating are popular activities. Commercial fishing is also an important industry in the community. Agriculture utilizes some of the land within 50 miles of the site; such as small truck farms, cattle, poultry, and row crops including corn, soybeans and tobacco. Industrial activity includes the Archer-Daniels-Midland Chemical (ADM) Company, a manufacturer of citric acid, located one and a half miles southeast of the plant. In conjunction with the citric acid plant is a small electrical generating station operated by Primary Energy. This coal-fired station is composed of two units rated at 55 MWe each.

Transportation is a significant industry in the local economy, with the Port of Wilmington north of the site. The shipping channel is just east of the site in the Cape Fear River. Also, the Sunny Point Military Ocean Terminal (MOT) is located approximately three miles north of the plant site on the Cape Fear River.

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 NRC Regulatory Guide (R.G.) 4.15 revision 1, "Quality Assurance for Radiological Monitoring Programs." According to R.G. 4.15 revision 1, 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." 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,
- BSEP participates in the Eckert & Ziegler Analytics Radiochemistry Cross-Check Program,
- GEL Laboratories, LLC (GEL) participates in an Inter-laboratory, an Intra-laboratory, and a Third Party Cross Check sample program.
  - Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP),
  - US Environmental Protection Agency Discharge Monitoring Report, Quality Assurance Program (DMR-QA),
  - ERA's InterLaB RadCheM Proficiency Testing Program,
  - Environmental Cross Check Program administered by Eckert & Ziegler Analytics, Inc. of Atlanta, and
- 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, now 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 potential 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. Table 1 provides a list of the media used to assess each of these pathways.

Table 1

Media Used to Assess Exposure Pathways to Man

Pathway of Exposure to Man	Media Sampled
External Dose	Thermoluminescent Dosimetry (TLD) Shoreline Sediment
Ingestion	Broadleaf Vegetation Fish and Invertebrates Surface Water
Inhalation	Air Samples (Particulate and 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 very unlikely to be affected by operation of the plant. Sample locations may be seen in Figures 2 through 15. A description of each sample location may be found in Table 2.

Figure 2: Radiological Sampling Locations (Distant from Plant)

Radiological Sampling Locations

Stations not illustrated:

204 (Sutton Plant in Wilmington) and 206 (Brunswick County Complex) - (Control Air Stations)

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

802 (Location not specified) (Control Vegetation)

Radiological Sampling Locations

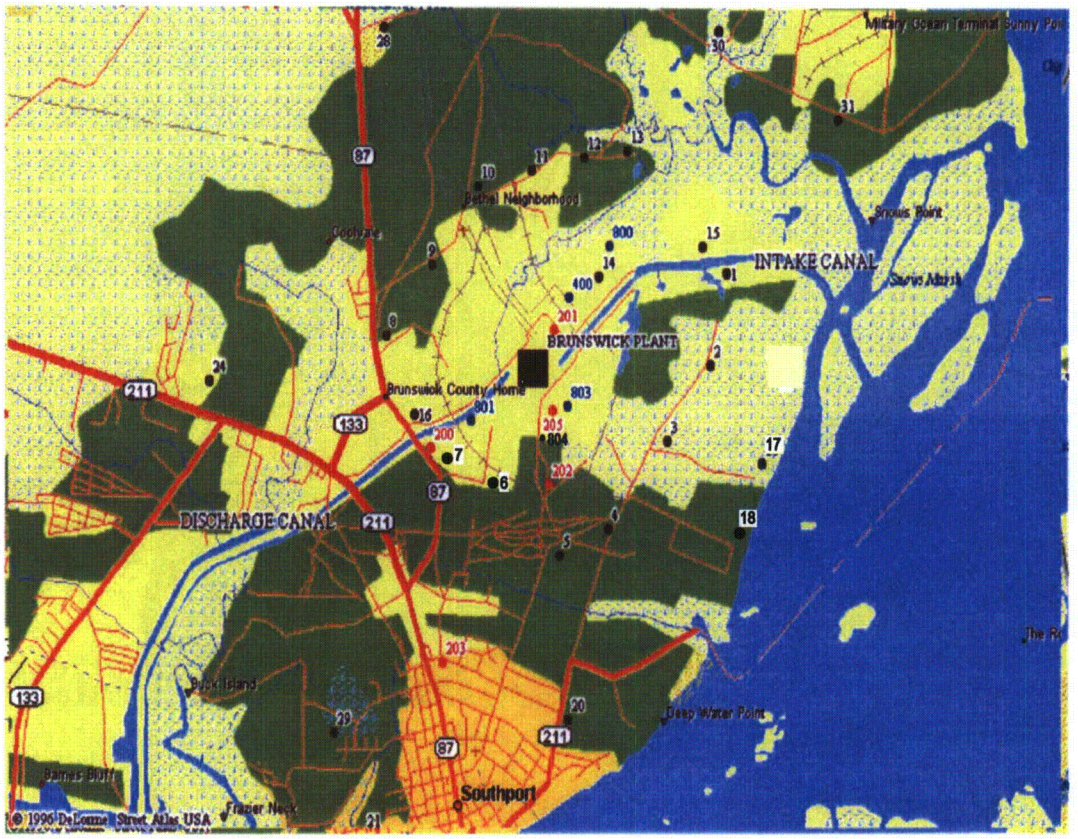


Figure 3 (Nearest Plant) is an expanded view of the previous figure (Figure 2).

Figure 4 BSEP Environmental Sampling Locations
Independent Spent Fuel Storage Installation (ISFSI) TLDs

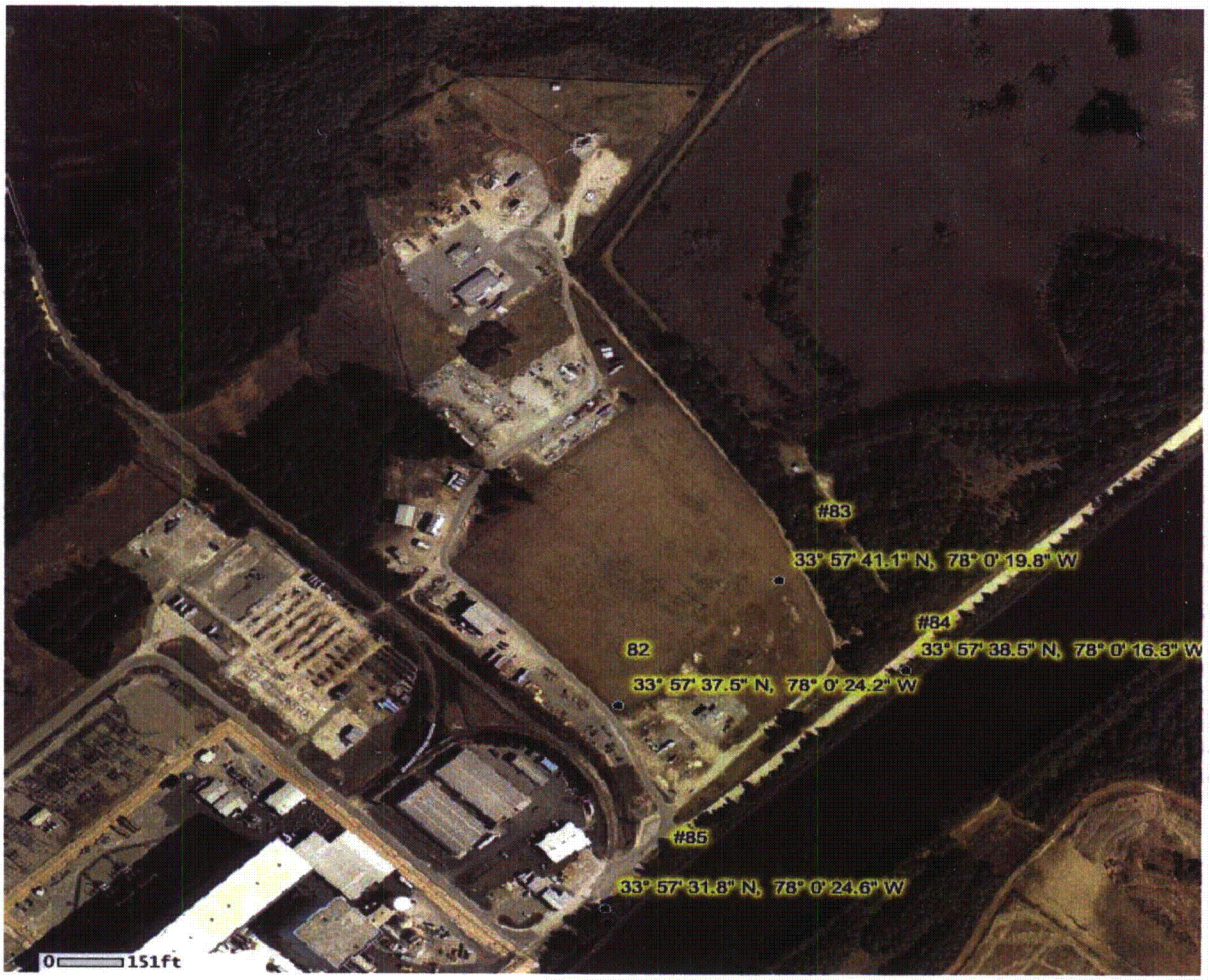
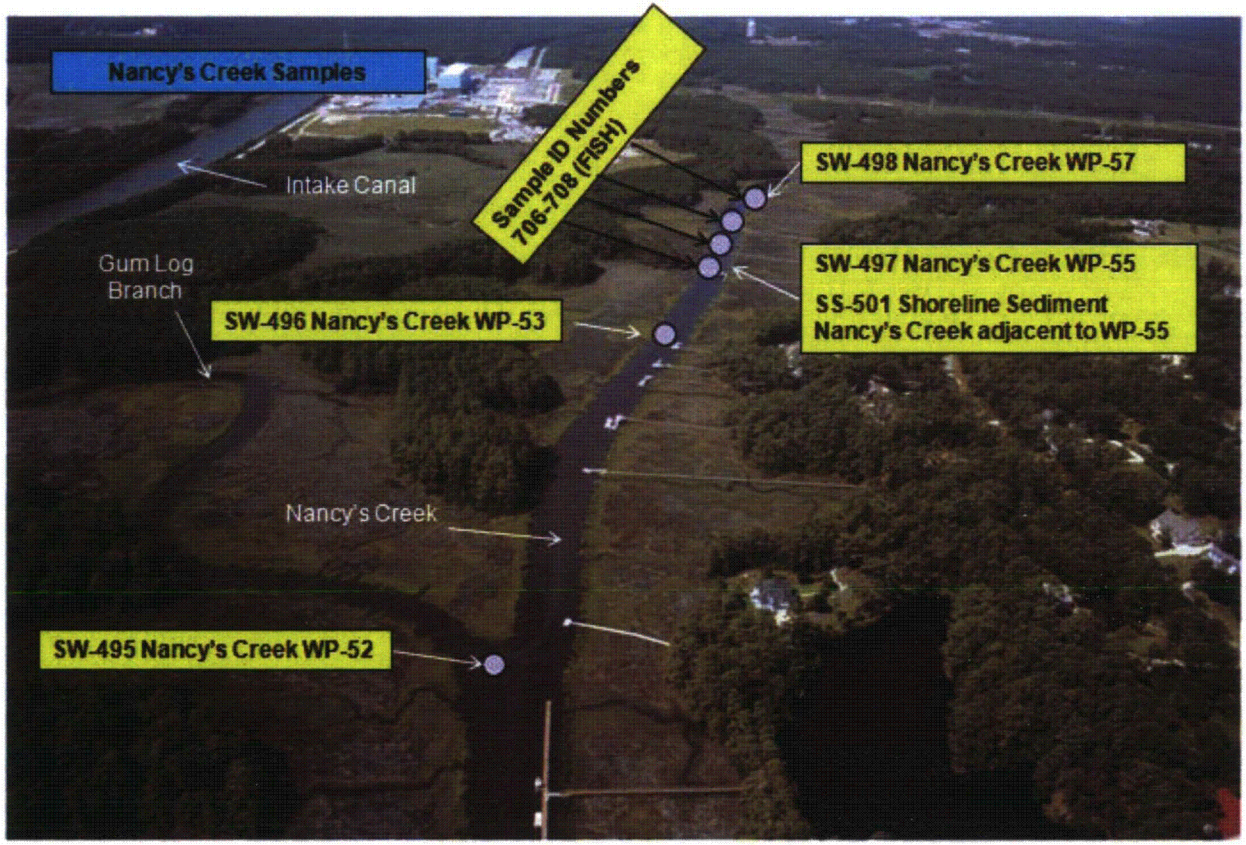


Figure 5 BSEP Environmental Sampling Locations



BSEP Environmental Sample Locations

Figure 6 BSEP Environmental Sampling Locations (Continued)

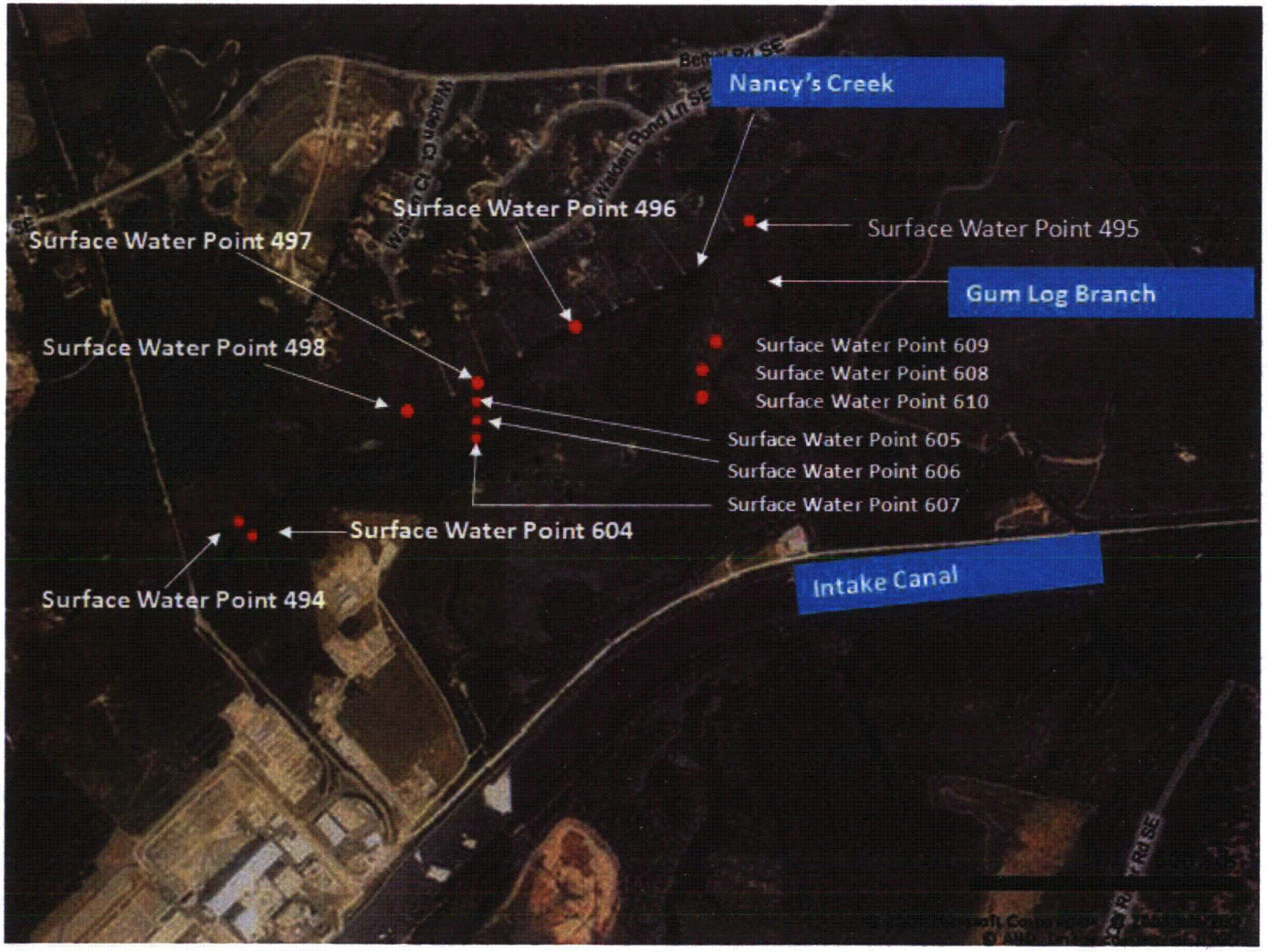


Figure 7 BSEP Environmental Sampling Locations (Continued)

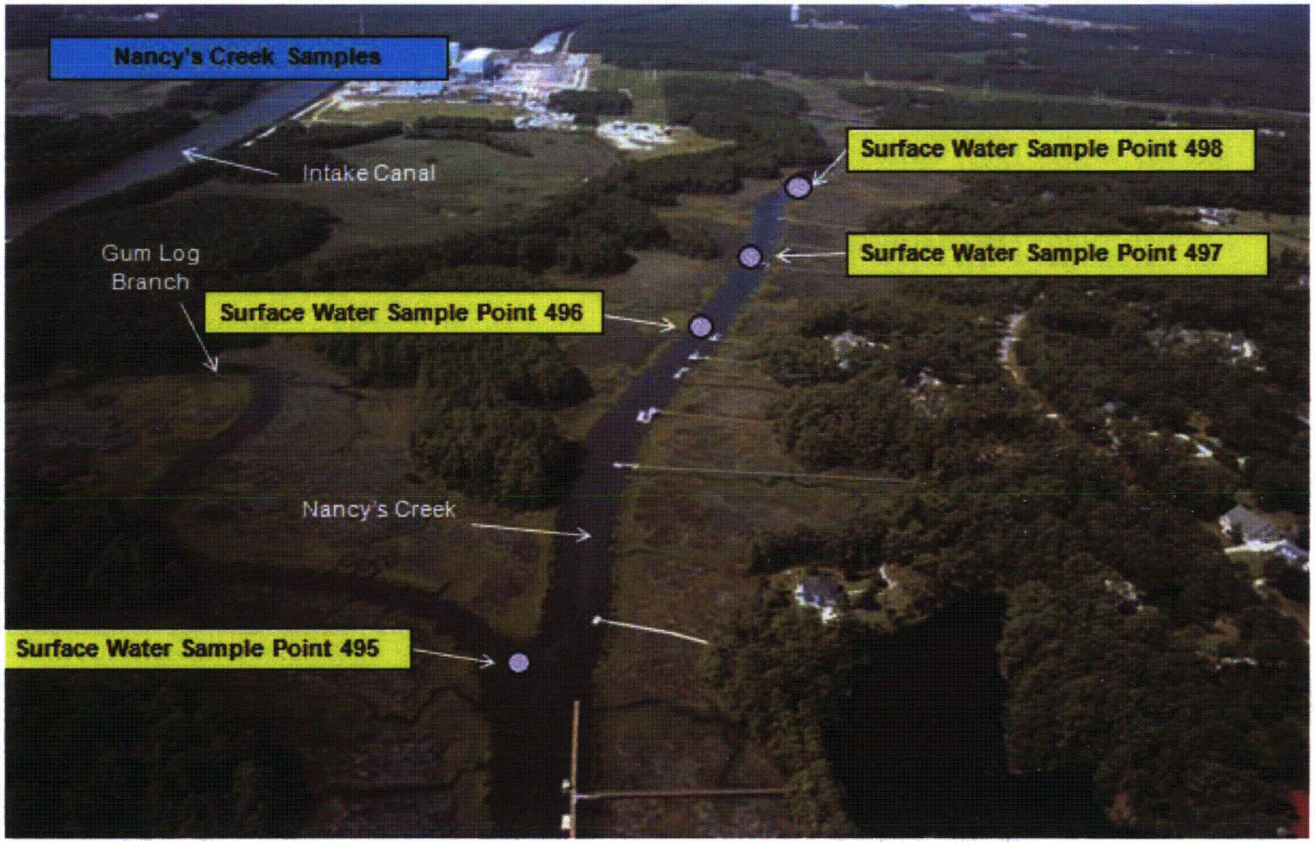


Figure 8 BSEP Environmental Sampling Locations (Continued)

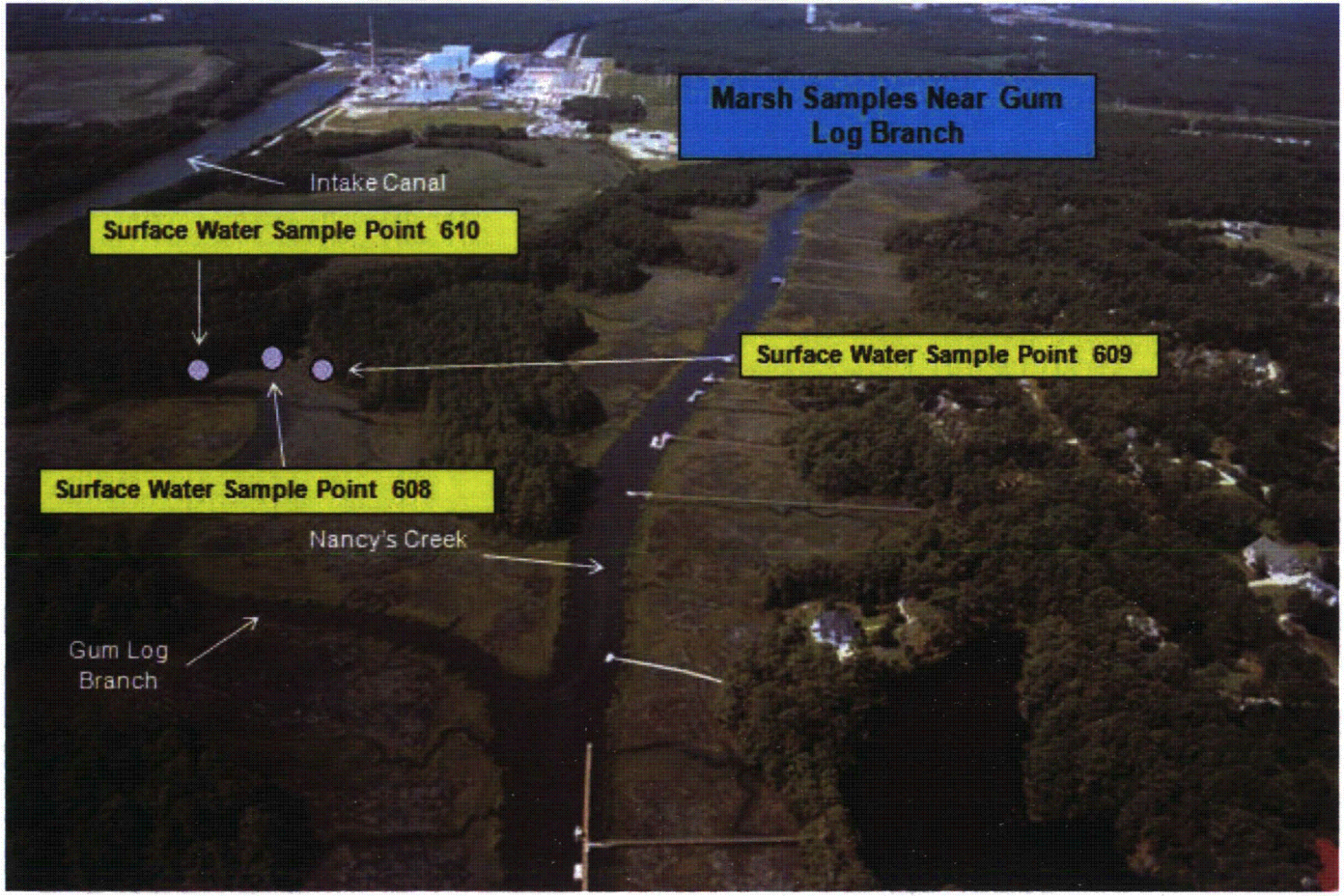


Figure 9 BSEP Environmental Sampling Locations (Continued)

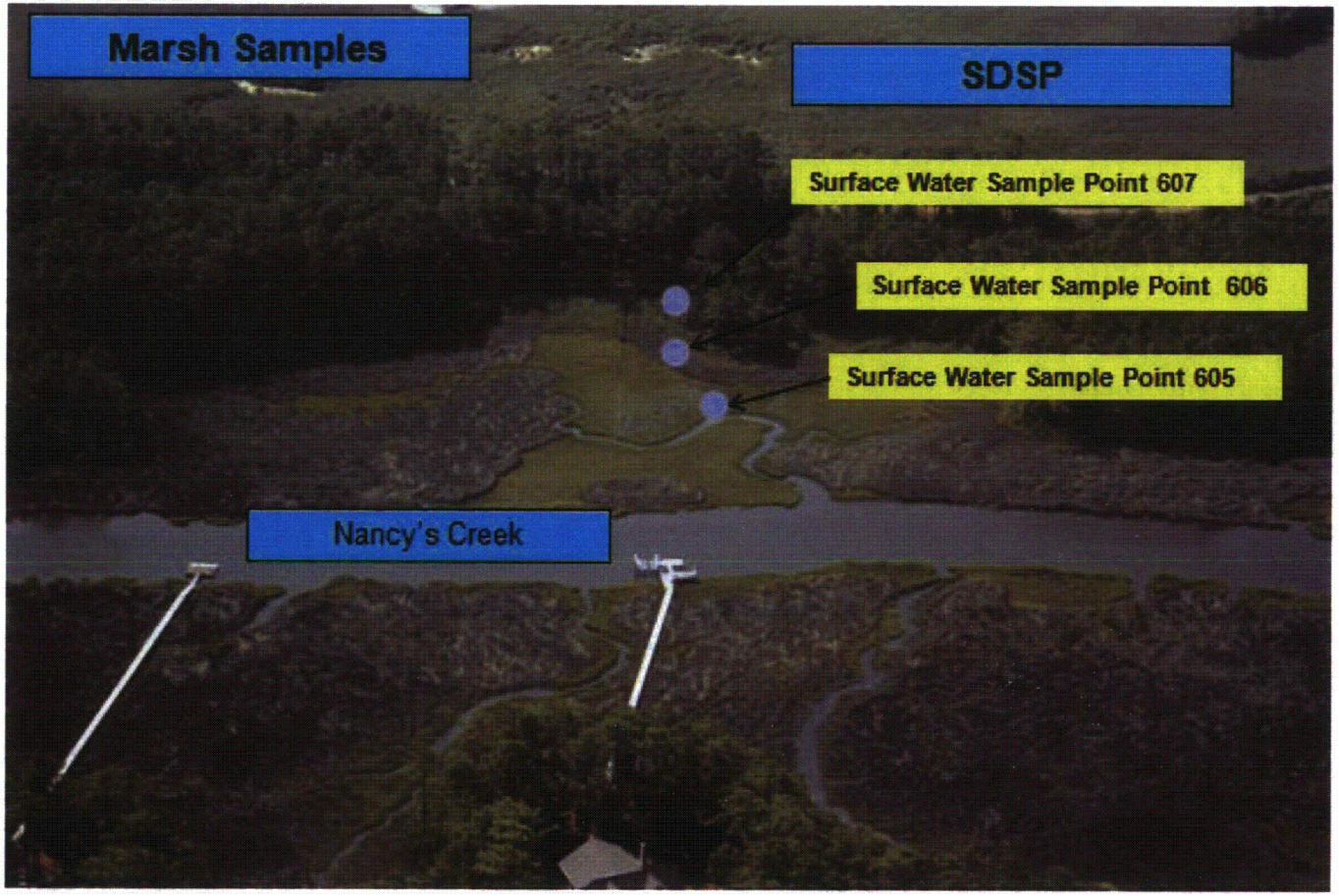


Figure 10 BSEP Environmental Sampling Locations (Continued)

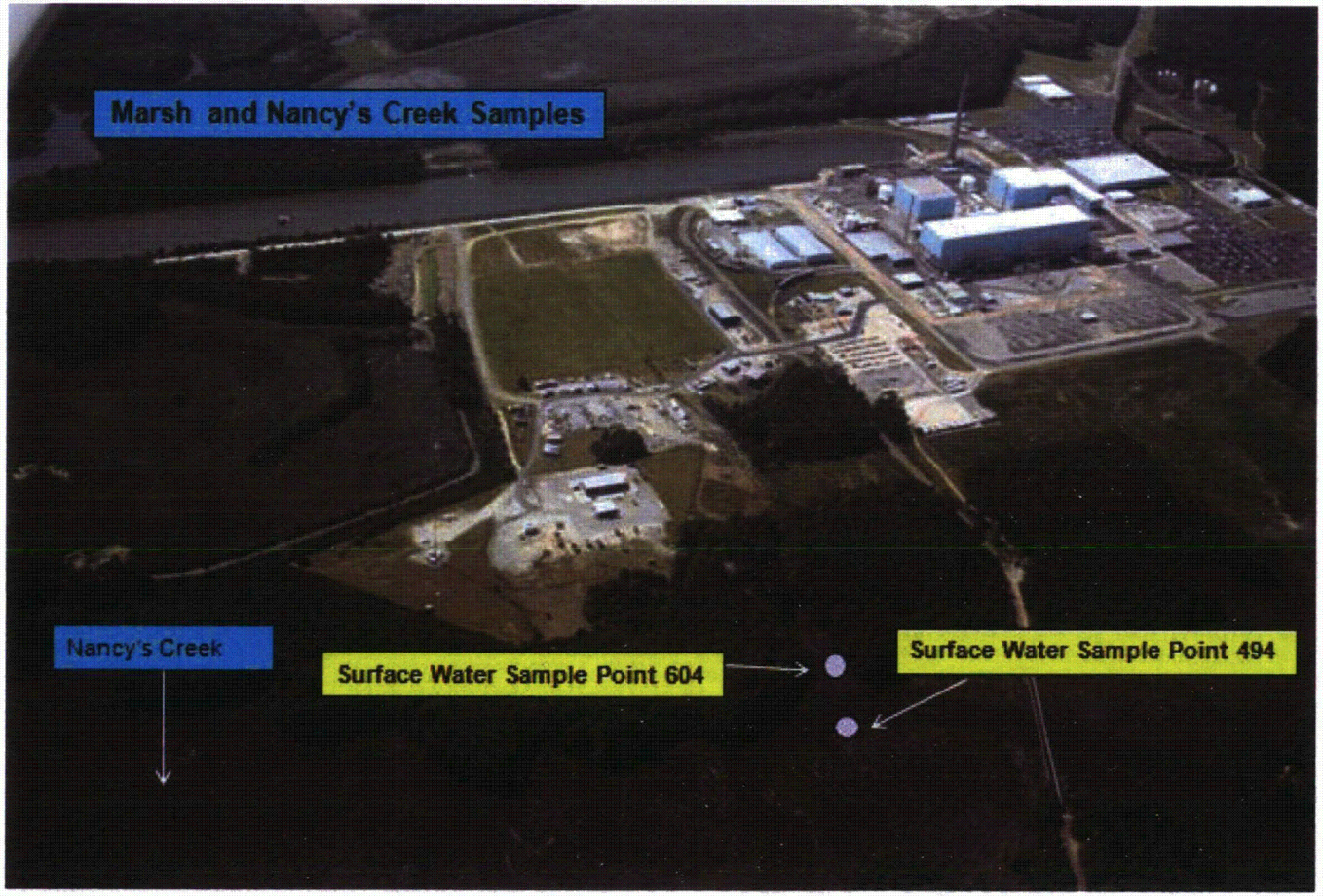


Figure 11 BSEP Environmental Sampling Locations (Continued)

SDSP: Storm Drain Stabilization Pond

Figure 12 BSEP Environmental Sampling Locations – Wells

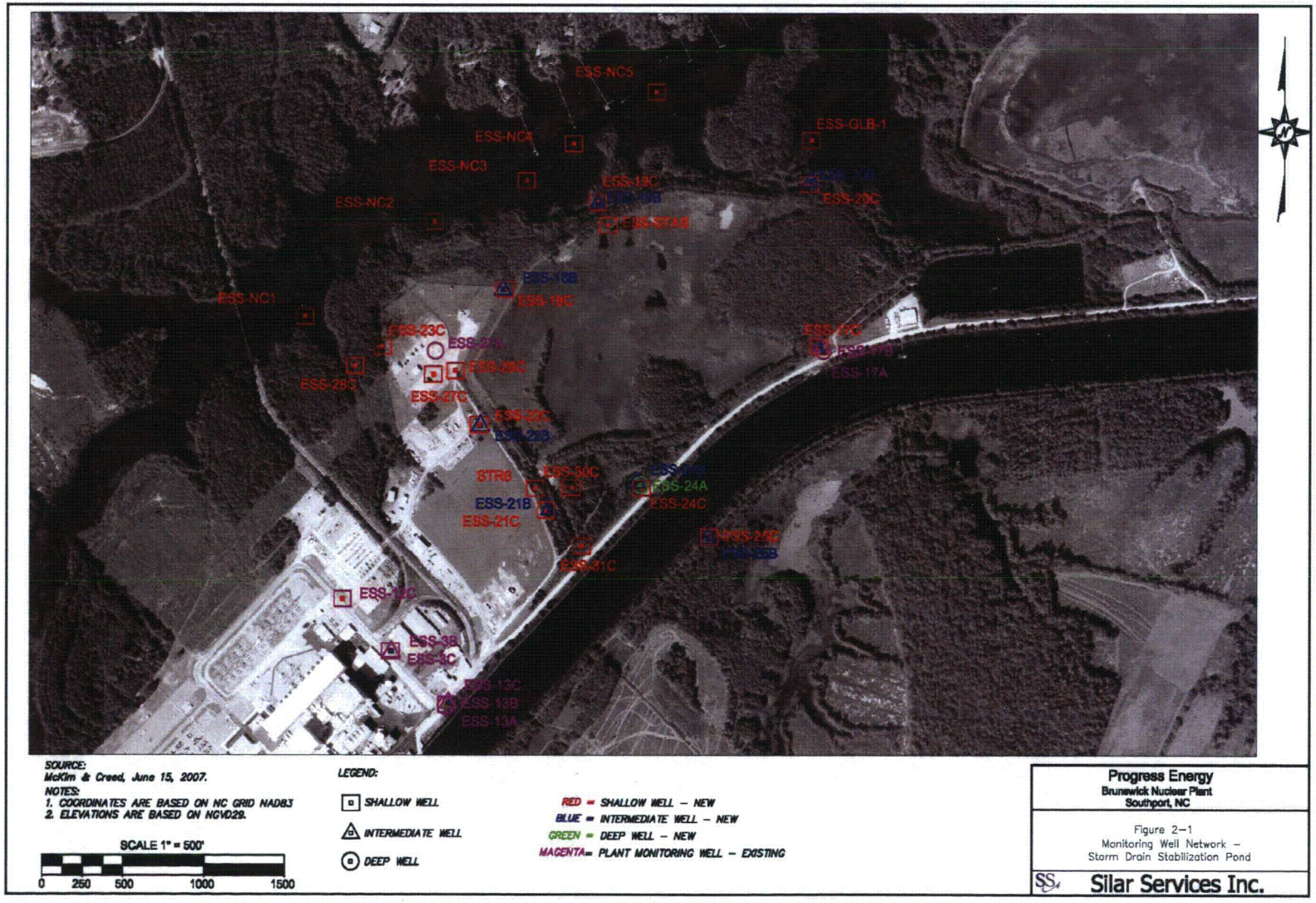
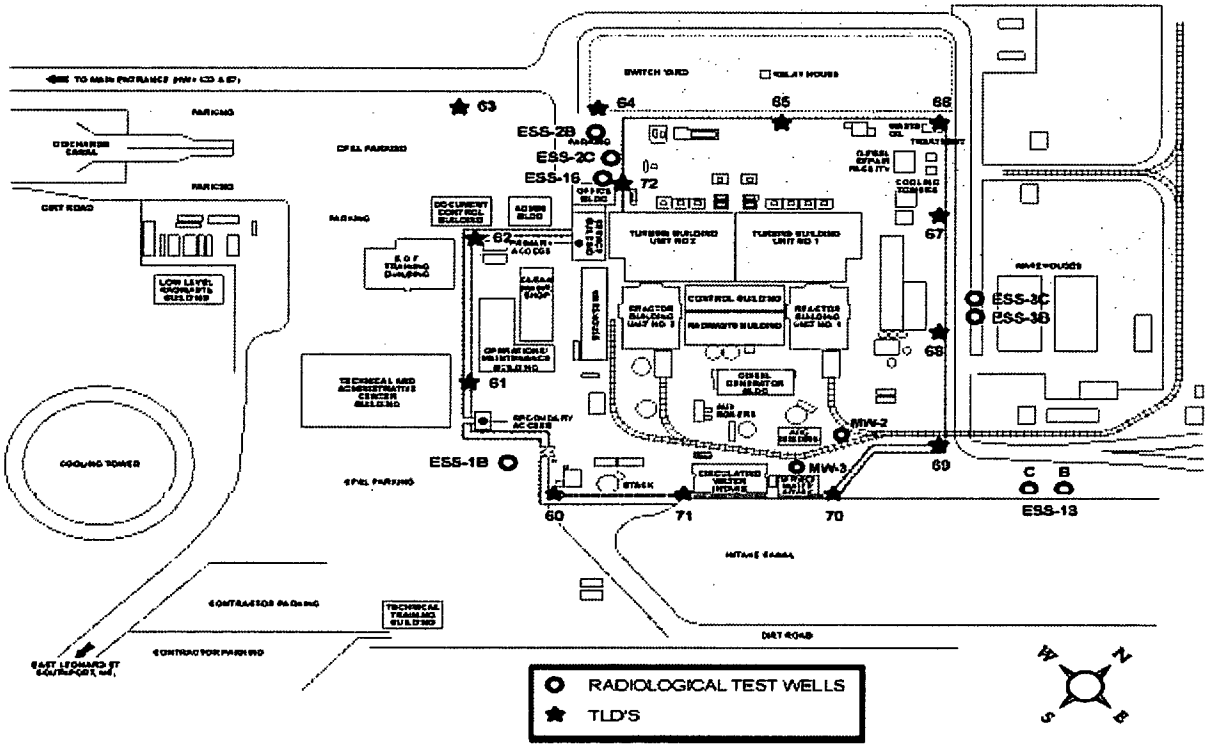


Figure 13 BSEP Environmental Sampling Locations – Wells (Continued)

Figure 14 BSEP Environmental Sampling Locations – Wells (Continued)



NOTE: Well ESS-17 is located near the Biology Lab.

Figure 15 BSEP Environmental Sampling Locations – Wells (Continued)

Table 2

Brunswick Steam Electric Plant

Radiological Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Air Cartridge (AC)	200--1.0 miles WSW Visitors Center 201--0.5 miles NE Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC) 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant (Historical Control)* 205--0.6 miles SSE Spoil Pond 206--11.3 miles NW Brunswick County Complex*	Weekly (Continuous Sampling)	(270 m^3)	Iodine-131
Air Particulate (AP)	200--1.0 miles WSW Visitors Center 201--0.5 miles NE Bio Lab Rd. – Projected Maximum Annual Concentration (PMAC) 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant (Historical Control)* 205--0.6 miles SSE Spoil Pond 206--11.3 miles NW Brunswick County Complex*	Weekly (Continuous Sampling) Quarterly	(270 m^3)	Gross Beta (Weekly) Composite Gamma (Quarterly)
Fish (FI) and Invertebrates (shrimp)	700--5.5 miles SSW Atlantic Ocean @ discharge (free swimmers) 701--5.5 miles SSW Atlantic Ocean @ discharge (bottom feeders) 702--5.5 miles SSW Atlantic Ocean @ discharge (invertebrates) 703--Atlantic Ocean; location not specified* (free swimmers) 704--Atlantic Ocean; location not specified* (bottom feeders) 705--Atlantic Ocean; location not specified* (invertebrates) 706--Nancy's Creek; location not specified (free swimmers) 707--Nancy's Creek; location not specified (bottom feeders) 708--Nancy's Creek; location not specified (invertebrates)	Semiannual (In Season) Annual	500 grams (wet)	Gamma (Edible portions) Gamma Tritium (Edible portions)
Broadleaf Vegetation (BL)	800--0.7 miles NE Intake Canal 801--0.8 miles SW Discharge Canal 802--10.1 miles; location not specified* 803--0.6 miles SSE Spoil Pond 804--0.7 miles S Leonard Street plant exit adjacent to RR tracks	Monthly (As available)	360 grams (wet)	Gamma Iodine-131
Shoreline Sediment (SS)	500--5.0 miles SSW Discharge; Beach near OD pumps 501--Nancy's Creek, Adjacent to WP-55, Near Storm Drain Stabilization Pond	Semiannual Annual	575 grams	Gamma

* Control Stations [A]Added per Revision 35 of BSEP ODCM

[D]Deleted per Revision 35 of BSEP ODCM.

Table 2 (Continued)

Brunswick Steam Electric Plant

Radiological Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Surface Water (SW)	400--0.6 miles NE Intake Canal* 401--4.9 miles SSW Discharge Canal @ OD Pumps	Composite Monthly	4 liters	Gamma (Monthly) Tritium (Quarterly)
	494--Nancy's Creek – WP-106 495--Nancy's Creek – WP-52 496--Nancy's Creek – WP-53 497--Nancy's Creek – WP-55 498--Nancy Creek – WP-57 499--Cape Fear River – WP-61*	Grab Sample, Weekly Monthly	N/A	Tritium (Weekly) Gamma (Monthly)
	604--Nancy's Creek Marsh Area – WP-92[A] 605--Nancy's Creek Marsh Area – WP-72[A] 606--Nancy's Creek Marsh Area – WP-74[A] 607--Nancy's Creek Marsh Area – WP-76[A] 608--Nancy's Creek Marsh Area – WP-82[A] 609--Nancy's Creek Marsh Area – WP-84[A] 610--Nancy's Creek Marsh Area – WP-88[A]	Grab Sample, Weekly[A]	N/A	Tritium, Gamma (Weekly)[A]
Groundwater (GW)	402--Monitoring Well ESS-2C, 0.17 miles W[D] 403--Monitoring Well ESS-16, 0.16 miles W[D] 404--Monitoring Well ESS-1B, 0.16 miles SW 405--Monitoring Well ESS-2B, 0.17 miles W[D] 406--Monitoring Well ESS-3B, 0.08 miles N[D] 407--Monitoring Well ESS-13B, 0.06 miles ENE 408--Monitoring Well ESS-13C, 0.06 miles ENE[D] 409--Monitoring Well ESS-17A, 0.65 miles NE 410--Monitoring Well ESS-17B, 0.65 miles NE 411--Monitoring Well ESS-17C, 0.65 miles NE[D] 412--Monitoring Well ESS-18B, Near SDSP[D] 413--Monitoring Well ESS-18C, Near SDSP[D] 414--Monitoring Well ESS-19B, Near SDSP[D] 415--Monitoring Well ESS-19C, Near SDSP[D] 416--Monitoring Well ESS-20B, Near SDSP[D] 417--Monitoring Well ESS-20C, Near SDSP[D] 418--Monitoring Well ESS-21B, Near SDSP 419--Monitoring Well ESS-21C, Near SDSP[D] 420--Monitoring Well ESS-22B, Near SDSP[D] 421--Monitoring Well ESS-22C, Near SDSP[D] 422--Monitoring Well ESS-23C, Near SDSP[D] 423--Monitoring Well ESS-24A, Near SDSP 424--Monitoring Well ESS-24B, Near SDSP 425--Monitoring Well ESS-24C, Near SDSP[D] 426--Monitoring Well ESS-25B, Near SDSP 427--Monitoring Well ESS-25C, Near SDSP[D] 428--Monitoring Well ESS-26C, Near SDSP[D] 429--Monitoring Well ESS-27A, Near SDSP 430--Monitoring Well ESS-27C, Near SDSP[D] 431--Monitoring Well ESS-30C, Near SDSP[D] 432--Monitoring Well ESS-31C, Near SDSP[D] 433-Monitoring Well MW-2, 0.02 miles S[D] 434--Monitoring Well MW-3, 0.03 miles S[D] 435--Monitoring Well ESS-Nancy Creek-1 (NC-1)[D] 436--Monitoring Well ESS-Nancy Creek-2 (NC-2)[D]	Grab Sample, Quarterly, Semiannual	N/A	Tritium (Quarterly) Gamma (Semiannual)

* Control Stations [A]Added per Revision 35 of BSEP ODCM

[D]Deleted per Revision 35 of BSEP ODCM.

Table 2 (Continued)

Brunswick Steam Electric Plant

Radiological Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Groundwater (GW)	437--Monitoring Well ESS-Nancy Creek-3 (NC-3) [D] 438--Monitoring Well ESS-Nancy Creek-4 (NC-4) [D] 439--Monitoring Well ESS-Nancy Creek-5 (NC-5) [D] 440--Monitoring Well ESS-Gum Log Branch-1, (GLB-1) [D] 447--Monitoring Well ESS-28C, Near SDSP [D] 612—Monitoring Well ESS MWPA-118B, Near Intake Canal & Plant Stack [A]	Grab Sample, Quarterly, Semiannual	N/A	Tritium (Quarterly) Gamma (Semiannual)

* Control Stations [A]Added per Revision 35 of BSEP ODCM

[D]Deleted per Revision 35 of BSEP ODCM.

Table 2 (Continued)

Brunswick Steam Electric Plant

Radiological Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Sz	Analysis
Thermoluminescent Dosimetry (TLD) (Direct Radiation)	1 1.1 miles E 2 0.9 miles ESE 3 0.9 miles SE 4 1.1 miles SSE 5 1.1 miles S 6 1.6 miles SSW 7 1.1 miles SW 8 1.2 miles W 9 1.0 miles WNW 10 0.8 miles NW 11 0.9 miles NNW 12 1.1 miles N 13 1.2 miles NNE 14 0.5 miles NE 15 0.9 miles ENE 16 1.0 miles WSW 17 1.4 miles ESE 18 1.7 miles SE ** 20 2.1 miles S 21 2.9 miles SSW 22 5.3 miles SW 23 4.6 miles WSW 24 3.0 miles W 25 8.6 miles WNW 26 5.9 miles NW 27 5.1 miles NNW 28 4.2 miles NW 29 2.6 miles SSW 30 2.0 miles NE 31 2.5 miles ENE 32 5.8 miles ENE 33 4.1 miles E 34 5.4 miles E 35 7.3 miles SSE 36 8.9 miles NE 37 5.5 miles NW 38 11.0 miles W 39 5.3 miles SW 40 6.9 miles WSW ** 75 4.7 miles S 76 4.8 miles SSW 77 5.4 miles S 78 9.9 miles NNE 79 9.5 miles N ** 81 9.9 miles WNW* 82 0.17 miles NNE @ SW corner of ISFSI 83 0.27 miles NE @ NW corner of ISFSI 84 0.27 miles NE @ NE corner of ISFSI 85 0.09 miles ENE @ SE corner of ISFSI	Quarterly	Not Applicable	TLD Reading (Gamma Dose)

*Control Station

**TLD sample points 19 and 80 have been retired, while points 41 thru 74 are not ODCM TLD sample points and are not listed.

SUMMARY OF RADIOLOGICAL MONITORING PROGRAM

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2011 for BSEP. The program was conducted in accordance with the ODCM, and applicable procedures.

The 2011 Annual Radiological Environmental Operating Report (REOR) has been prepared and submitted in accordance with Technical Specification 5.6.2 and ODCM 7.4.1. The report applies to both BSEP Unit Nos. 1 and 2 (License Nos. DPR-71 and DPR-62, respectively).

A total of 1968 sample measurements were performed on 1817 collected samples from indicator and control locations from eight environmental media types during 2011. No detectable radioactivity (or radioactivity that differed significantly from the corresponding control) was observed in any of the 1640 measurements performed on the 1513 indicator location samples in 2011, except for Cs-137 in broadleaf vegetation, shoreline sediment, and air particulate composite samples; tritium in ground water and surface water samples; Cs-134 in broadleaf vegetation samples; and Iodine-131 (I-131) in air cartridge, air particulate, and broadleaf vegetation samples. No gamma activity was detected in any of the ground water or surface water samples, except for K-40 and other naturally occurring gamma activity. All samples analyzed met the Lower Limit of Detection (LLD) requirements as established by ODCM Table 7.3.15-3.

The radiological environmental data indicates that BSEP operations in 2011 had no significant impact on the environment or public health and safety. No measurable radiation exposure is attributed to any off-site member of the public due to the operations of BSEP. However, non-plant related activity was detected in air cartridges, air particulate filters, and broadleaf vegetation samples during the Fukushima Dai-ichi nuclear power plant situation caused by the March 11, 2011, earthquake and tsunami.

A statistical summary of all the data gathered in 2011 has been compiled in Table 3.

Comparison of the current data with preoperational (1973, 1974) information (Tables 4 and 5) indicates that air particulate filter gross beta activity and ambient gamma radiation levels were lower for gross beta and about the same for gamma in 2011.

Comparison of current ISFSI TLD data after loaded fuel with preoperational data (2008 – 3rd Quarter 2010) indicates that the average TLD dose levels were about the same as the average for the 2011 ISFSI TLD data.

TABLE 3
BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
Brunswick County, North Carolina

Docket Numbers - 50-324 and 325
Calendar Year 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD)[1]	All Indicator Locations[2] Mean Range	Location w/Highest Annual Mean: Name, Distance, and Direction	Location w/Highest Annual Mean: Mean Range[2]	Control Locations Mean Range[2]
Air Cartridge (pCi/m^3)	I-131[3][10] 362	5.0E-2	1.07E-1 (16/260)[7] 1.90E-2 – 2.02E-1	Spoil Pond 0.6 miles SSE	1.31E-1 (3/52)[7] 3.76E-2 – 2.02E-1	1.00E-1 (6/102)[7] 3.32E-2 – 1.64E-1
Air Particulate (pCi/m^3)	Gross Beta[3][10] 362	4.4E-3	2.01E-2 (260/260)[7] 4.23E-3 – 4.65E-2	Substation on Construction Rd. 1.0 mile S	2.08E-2 (52/52)[7] 6.19E-3 – 4.65E-2	2.10E-2 (102/102)[7] 7.22E-3 – 3.92E-2
	Gamma[4][10] 50 I-131	4.3E-2	2.40E-2 (5/36)[7] 1.27E-2 – 3.16E-2	PMAC Bio Lab Rd. 0.5 miles NE	3.16E-2 (1/7)[7] Single value	2.53E-2 (3/14)[7] 2.38E-2 – 2.93E-2
	Cs-137	4.3E-3	1.26E-3 (1/36)[7] Single value	PMAC Bio Lab Rd. 0.5 miles NE	1.26E-3 (1/7)[7] Single value	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma[3][4][10] 60[3] I-131	4.9E-2	1.83E-1 (4/48)[7] 1.39E-1 – 2.20E-1	Discharge Canal 0.8 miles SW	2.20E-1 (1/12)[7] Single value	1.48E-1 (2/12)[7] 9.16E-3 – 2.87E-1
	Cs-134	2.5E-2	2.01E-2 (2/48)[7] 1.42E-2 – 2.60E-2	Spoil Pond 0.6 miles SSE	2.60E-2 (1/12)[7] Single value	1.64E-2 (1/12)[7] Single value
	Cs-137	2.8E-2	1.76E-2 (3/48)[7] 1.19E-2 – 2.48E-2	Spoil Pond 0.6 miles SSE	2.48E-2 (1/12)[7] Single value	2.68E-2 (5/12)[7] 1.26E-2 – 3.62E-2
Fish and Invertebrates (pCi/g, wet)	Tritium 3	6.0E+0[8]	All less than LLD	-----	-----	No control
	Gamma[4] 15	See Table 6	All less than LLD	-----	-----	All less than LLD

TABLE 3 (cont.)
BRUNSWICK STEAM ELECTRIC PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
Brunswick County, North Carolina

Docket Numbers - 50-324 and 325
Calendar Year 2011

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD)[1]	All Indicator Locations[2] Mean Range	Location w/Highest Annual Mean: Name, Distance, and Direction	Location w/Highest Annual Mean: Mean Range[2]	Control Locations Mean Range[2]
Sediments--Shoreline (pCi/g, dry)	Gamma[4] 3 Cs-137	8.9E-2	1.77E-1 (1/3)[7] Single value	Nancy's Creek adjacent to WP-55 near SDSP	1.77E-1 (1/1)[7] Single value	No control[9]
	Hard-to-detects (Fe-55, Sr-89/90) 1	See Table 6	All less than LLD	-----	-----	No control
Surface Water (pCi/l)	Tritium 700	2.50E+2[6]	5.11E+2 (154/636)[7] 2.39E+2 - 1.22E+4	Nancy's Creek Marsh Area WP-74	9.28E+2 (15/52)[7] 2.46E+2 – 7.95E+3	All less than LLD
	Gamma[4] 148	See Table 6	All less than LLD	-----	-----	All less than LLD
Ground Water (pCi/l)	Tritium[3] 45	2.50E+2[6]	2.72E+2 (2/45)[7] 2.34E+2 - 3.10E+2	Well ESS-MWPA-118B Near Intake Canal & Plant Stack	3.10E+2 (1/11)[7] Single value	No control
	Gamma[3][4] 21	See Table 6	All less than LLD	-----	-----	No control
TLD (mR per quarter)[5]	TLD Readout 180	-----	9.94E+0 (176/176)[7] 7.30E+0 - 1.30E+1	5.3 miles SW	1.22E+1 (4/4)[7] 1.14E+1 - 1.30E+1	1.08E+1 (4/4)[7] 9.10E+0 - 1.18E+1
TLD ISFSI (mR per quarter)[5]	TLD Readout 16	-----	2.99E+1 (16/16)[7] 1.67E+1 - 5.38E+1	SE Corner of ISFSI 0.09 miles ENE	5.06E+1 (4/4)[7] 4.81E+1 - 5.38E+1	No control

FOOTNOTES TO TABLE 3

1. LLD is calculated based on 4.66 standard deviations above background using typical sample sizes and counting times. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. See Table 6 for typical/worst case LLDs.

2. Mean and range are based on detectable measurements only. The fractions of detectable measurements at specific locations are indicated in parentheses.

3. Missing samples are discussed in Missed Surveillance Section.

4. Summary of gamma analysis results in this report does not include the following naturally occurring isotopes since most environmental samples contained some or all of these: Be-7, K-40, Tl-208, Pb-212, Bi-214, Pb-214, and Ra-226.

5. TLD dose is reported in milliroentgen (mR) per 90-day period (quarter) beginning in 1995. This is the exposure standard used to compare data to the NRC. This does not include the ISFSI data.

6. The tritium LLD was approximately 2.50E+2 pCi/L. The LLD was lowered at the request of Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc. in order to maintain comparable LLD values with the North Carolina Division of Radiation Protection (NCDRP) laboratory.

7. The numbers in parentheses [e.g., Surface Water Tritium 3.23E+2 (39/268) for Indicator Location Mean (Average)] indicate how many samples that specific value and column apply to in relation to the total number of samples for that column heading.

8. The tritium reporting limit for Fish per General Engineering Laboratories (GEL) is 6.0 pCi/gram,

9. A Shoreline Sediment background sample was collected in 2011, but it is not an ODCM sample; therefore, it is not recorded in the database.

10. During 2011, REMP samples obtained from air monitoring (air cartridge and air particulate), and broadleaf vegetation locations identified the presence of low levels of radioactive I-131, Cs-134, and Cs-137. The detectable concentrations were not a result of BSEP operations given the following facts:

    - The quantity of radioactive iodine in BSEP's radiological effluents during 2011 did not increase significantly compared to 2010.
    - The REMP sample results detected the presence of Iodine-131, Cs-134, and Cs-137 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 BSEP 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 BSEP.

INTERPRETATIONS AND CONCLUSIONS

Air Monitoring

The average gross beta concentration measured in 260 air particulate (AP) samples collected at indicator stations during 2011 was 2.01E-2 picocuries per cubic meter (pCi/m^3) and the average gross beta concentration measured in 102 AP samples collected at control stations during 2011 was 2.10E-2 pCi/m^3. The preoperational (1973-1974) average concentration was 8.2E-2 pCi/m^3, while the average activity in the recent past (2006-2010) was 1.93E-2 pCi/m^3 (Table 4). The airborne concentrations of gross beta activity in 2011 are indicative of natural background and do not indicate any abnormal activities originating from the nuclear operations at BSEP. Figures 16 through 21 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location for the year 2011. AP weekly samples that exhibit an elevated gross beta activity typically have a gamma isotopic analysis performed and the results indicate all natural gamma activity. No plant-related gamma activity was observed for any weekly air particulates during 2011, except for the I-131 activity that was detected in six (6) weekly indicator AP samples and two control samples (CR # 456593). 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 # 456549, 472226, and 482335). The air samplers operated for a total of greater than 98.6% availability for 2011.

No plant-related gamma activity was detected in quarterly composite air particulate filter samples from either the indicator or control locations, except for Cs-137 that was identified in one indicator composite for 2nd Quarter 2011 (CR#479197). Typical/Worst Case LLDs for air particulates are contained in Table 6.

The majority (>93%) of the 362 air cartridge (AC) samples from indicator and control stations had I-131 concentrations less than the typical/worst case LLD of 5.0E-2 pCi/m^3. 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 # 456593).

Milk

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

Vegetation

Food crops were not grown in the vicinity of the plant in 2011 and this media was represented by indigenous vegetation samples consisting primarily of wax myrtle leaves. Forty-eight (48) samples were collected from indicator locations and twelve (12) samples from the control location. No detectable activities relating to plant effluents were detected in this sampling media

in 2011; however, Iodine (I)-131, Cesium (Cs)-134, and Cesium (Cs)-137 activity was detected in both indicator and control samples following the Fukushima Dai-ichi nuclear power plant incident (CR # 459329). Refer to Table 3 for the activity ranges of the nuclides. No other gamma activity was detected in any sample, except for K-40 (potassium-40) and other naturally occurring gamma activity.

Fish and Invertebrates

Fish (free swimmers and bottom feeders), invertebrate (SH), and benthic organism (BO) samples are collected semiannually from two locations: (1) near the Atlantic Ocean discharge pipe at Caswell Beach and (2) a control location in the Atlantic Ocean not influenced by plant operations and annually from three locations on Nancy's Creek (Figure 5). In all fifteen (15) samples (indicator and control), no detectable activities relating to plant effluents were detected in 2011. All radionuclides positively identified by the radionuclide analyses were naturally occurring nuclides. The fish locations on Nancy's Creek sampled in 2011 were also analyzed for tritium, with all the tritium results being less than LLD.

Groundwater

Groundwater (GW) is sampled quarterly and semiannually from 10 indicator sample sites. These samples are analyzed for gamma-emitting radionuclides (at least semiannually) and for tritium (at least quarterly). The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the indicator samples. Analyses indicated detectable concentrations of tritium in two out of 45 samples analyzed in 2011. Thirty-one (31) groundwater samples were deleted from the BSEP environmental sampling program per Revision 35 of the BSEP ODCM. These data points and results for 2011 are reported in the BSEP 2011 Effluent Report. Two GW well (GW-423 [Well ESS-24A] and GW-424 [Well ESS-24B]) were not collected fourth quarter 2011 due to the well being unaccessable during construction of the new Storm Drain Stabilization Pond.

Shoreline Sediments

Three shoreline sediments in 2011 were drawn from the beach area near the pumping station location at Caswell Beach. In both samples, all of the radionuclides indicative of plant effluents were determined to be less than the respective LLDs for gamma-emitting radionuclides. One shoreline sediment in 2011 was drawn from Nancy's Creek adjacent to WP-55 near the Storm Drain Stabilization Pond (SDSP), where the indicator sample contained Cesium (Cs)-137 activity (1.77E-1 pCi/gm dry). The sample was analyzed for Iron (Fe)-55, Strontium (Sr)-89, and Strontium (Sr)-90 by General Engineering Laboratories (GEL), all were less than the respective LLDs. Per BSEP ODCM revision 35, the frequency of sampling for the shoreline sediment sample from Nancy's Creek will increase to semi-annually for the next sampling year. A shoreline sediment background sample, non-ODCM, was collected and analyzed in 2011, with no detectable activity relating to plant effluents being identified. The only nuclides identified were naturally occurring nuclides.

Surface Water

Surface water (SW) is sampled monthly from the intake and discharge canal and Nancy's Creek is sampled weekly. These samples are analyzed for gamma-emitting radionuclides and for tritium. Tritium analysis is performed weekly on the Nancy Creek samples. Sampling and compositing for gamma emitters is weekly and the gamma analysis is performed monthly on the samples composited weekly. The current BSEP ODCM (Revision 35) effective date of November 15, 2011, states gamma analyses are to be performed weekly on the composite samples. The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the indicator and control samples. None of the control samples indicated the presence of tritium. However, 154 out of 636 indicator samples indicated the presence of tritium in 2011. The predominate location(s) indicating tritium were at Nancy's Creek and the discharge canal indicator locations. Five (5) of the twelve samples from the historical discharge canal indicated the presence of tritium, while 149 out of 624 samples from Nancy's Creek indicated the presence of tritium. The tritium activity detected in SW-401 (the discharge canal composite sample) had an average tritium concentration of 3.34E+2 pCi/L, which was expected due to plant operations at the time of sampling. The indicator samples from Nancy's Creek had a maximum concentration of 1.22E+4 pCi/L of tritium activity. The reporting limit for tritium in environmental samples is 3.00E+4 pCi/L (30,000 pCi/L); therefore, the detected values are well below the reportable limit. Figure 22 depicts the observed tritium concentrations for SW-400 (control) and SW-401 (indicator) in 2011. See Missed Surveillance Section/ Surface Water for SW-401 (Caswell Beach) downtime (CR # 453316).

External Radiation Exposure

The environmental data on external radiation exposure for 2011 was essentially unchanged from 1989-2010 with an average exposure for all of 2011 indicator locations of 9.94 mR per quarter. The average exposure observed over the preoperational period was 1.02 mR per week observed from the fourth quarter of 1972 through the second quarter of 1975. Table 5 provides a comparison of recent data with the preoperational and historical data.

The highest average exposure occurred at one TLD location at 5.3 miles SW. The exposure was 12.2 mR per quarter. Figure 23 depicts average inner and outer ring TLD data for each quarter of 2010. This depiction does not indicate a significant higher exposure rate for the inner versus the outer ring. This is interpreted as demonstrating that no discernible off-site exposure has occurred from plant operations.

TLD averages per Table 3 do include a separate line for the four (4) ISFSI TLDs that were added to the program as of 3rd Quarter 2010. These TLDs are not indicative of the plant's environmental monitoring program's TLDs, so they will be handled separately. The ISFSI TLD data is included with the environmental data results as a separate section. Comparison of the 2011 ISFSI TLD data after loaded fuel with preoperational data (2008 – 3rd Quarter 2010) indicates that the average pre-op TLD dose levels were about the same as the average after Fuel was loaded. See chart below. Dry fuel storage radiation measurements have been monitored since 2008 and additional information can be found in the BSEP 2011 Annual Release Report.

ISFSI TLD Dose (mR/std. qtr.)

	TLD # 82	TLD # 83	TLD # 84	TLD # 85
Average Pre-Op (1^{st} Qtr. 2008 to 3^{rd} Qtr. 2010)	30.1 ± 3.1	22.4 ± 2.1	16.7 ± 1.6	53.2 ± 7.6
Average after Fuel Loaded (4^{th} Qtr. 2010 to 4^{th} Qtr. 2011)	26.8 ± 2.6	23.9 ± 2.5	17.6 ± 3.3	52.1 ± 6.1

TABLE 4

Brunswick Steam Electric Plant

GROSS BETA AIR PARTICULATE ACTIVITY AVERAGES

	Gross Beta Activity (pCi/m^3)							
	Preoperational		Recent Operational					
Location	1973	1974	2006	2007	2008	2009	2010	2011
AP-200	2.2E-2	1.4E-1	1.9E-2	1.9E-2	1.9E-2	1.9E-2	2.0E-2	2.0E-2
AP-201	3.1E-2	1.4E-1	1.9E-2	2.0E-2	1.8E-2	1.9E-2	2.1E-2	2.0E-2
AP-202	3.4E-2	1.4E-1	1.8E-2	1.9E-2	1.9E-2	1.9E-2	2.1E-2	2.1E-2
AP-203	2.4E-2	1.3E-1	1.8E-2	2.0E-2	1.9E-2	1.9E-2	2.1E-2	2.0E-2
AP-204*	2.5E-2	1.3E-1	1.9E-2	2.1E-2	1.8E-2	1.8E-2	2.1E-2	2.1E-2
AP-205	**	**	1.8E-2	1.9E-2	1.9E-2	1.9E-2	2.0E-2	2.0E-2
AP-206*	**	**	**	**	**	2.0E-2	2.2E-2	2.1E-2

* Control location

** This sample point added post-operational.

TABLE 5

Brunswick Steam Electric Plant

HISTORICAL TLD RESULTS (1972-2011)

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

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

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. The air samplers operated for a total of 98.6% availability in 2011.

Missed Samples:

- APAC-204; June 20, 2011 – Air sampler was found not running due to a blown fuse. The fuse was replaced and the sampler returned to service. Due to the amount of down time, valid samples were not collected (CR # 472226).

- APAC-204; August 8, 2011 – When exchanging APAC-204, it was discovered that the sampler head was not completely engaged between the attachment fittings which allowed the sample stream to bypass the filter. The sampler head had not been completely seated and locked in place from the previous week's filter exchange. The air sampler system indications were normal, but the results were not valid (CR 482335).

Missed Surveillances:

- APAC-203: March 21, 2011 – This is to document the torn appearance of the air particulate filter, which indicates some air was bypassing the particulate filter media. The air samples (air particulate and air cartridge) were counted and reported (CR # 456549).

Food Crops / Vegetation

No food crops were grown in the vicinity of the plant in 2011; therefore, none were collected. The media were represented by indigenous vegetation samples (broadleaf vegetation) consisting of wax myrtle leaves.

Groundwater

Groundwater well samples, GW-423 (Well ESS-24A) and GW-424 (Well ESS-24B), were not collected fourth quarter 2011 due to the wells being inaccessible during construction of the new Storm Drain Stabilization Pond.

Surface Water

The water sampler at Caswell Beach (SW-401) was found not working on March 10, 2011, through March 15, 2011, (CR # 453316). This is to note the missed surveillances; however, there was enough sample volume for the requested analysis

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 4.4E-3 pCi/m^3 for BSEP samples. Air particulate samples are mounted in two-inch stainless steel planchets and are typically counted directly for 50 minutes.

Tritium

Liquid samples requiring tritium analysis are treated with a small amount of sodium hydroxide, potassium permanganate crystals, and then distilled. The distillate is mixed with a liquid scintillation cocktail and counted for the appropriate time to reach the desired LLD in a liquid scintillation analyzer. The desired LLD was approximately 2.50E+2 pCi/L. This lower LLD was established to compare BSEP tritium LLDs and North Carolina Department of Radiation Protection's reportable concentrations, in the Split Sample Program's Annual Report. The fish samples requiring tritium analysis are analyzed by a vendor laboratory. The ground water samples and most of the surface water samples requiring tritium analysis are analyzed by the BSEP laboratory.

Iodine-131

Iodine-131 airborne concentrations are analyzed by the intrinsic germanium (Ge) gamma spectrometry systems. The cartridges are placed on the detector and each charcoal cartridge is counted individually for 2,500 seconds with a worst case LLD of 5.0E-2 pCi/m^3.

Gamma Spectrometry

Gamma spectrum analysis utilizes intrinsic germanium detectors with thin aluminum windows housed in steel and lead shields. The analyzer system is the Canberra APEX Gamma Spectroscopy System. Table 6 summarizes worst case 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 a typical count time of 1,500 seconds.

Liquid samples are transferred to Marinelli beakers and analyzed by gamma counting. One-liter Surface Water samples are gamma scanned directly in a 1-Liter Marinelli beaker for 73,000 seconds, while the Caswell Beach Ocean Discharge samples are directly counted for 40,000 seconds.

Shoreline sediments are dried, ground, weighed, and then analyzed in a 1-Liter Marinelli beaker

for 480 seconds (>1000 grams, dry) or 720 seconds (≤1000 grams, dry).

Broadleaf vegetation is weighed as sampled and analyzed in a Marinelli beaker for a typical count time of 7,500 seconds.

Fish samples are prepared by placing small raw, edible portions of the fish in a 1 Liter Marinelli beaker and edible portions of invertebrate organisms are cleaned and placed in a 1 Liter Marinelli beaker for analysis for a typical 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.

The Interlaboratory Comparison Program entails measurements on each instrument that is used to determine concentrations of radioactive material in the various media that are analyzed as part of the REMP. 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, included at the end of the report in the Appendix is a partial summary of General Engineering Laboratories' (GEL's) Interlaboratory Comparison Program results for 2011. The summary provides an overall discussion on the 2011 results. The entire 2011 GEL Interlaboratory Comparison Program results will be provided upon request to provide individual analysis results which contain the Sample Number or Study ID; Analysis quarter and year; sample media; specific radionuclide; its unit; its result; the known values supplied by the providers; GEL's ratio to the known value or acceptance criteria provided by the provider; and evaluation criteria. BSEP's Interlaboratory Comparison Program results are also listed below. Other BSEP Interlaboratory Cross Check Program Results from 2011 will be supplied upon request.

Environmental Cross Check Performance Summary for 2011

Sample	Nuclide	Quarter	Units	HEEC Value	EZA Value	HEEC/EZA Ratio	Evaluation
Gross beta water 1st Qtr E7457-668 3rd Qtr E8110-668 4th Qtr E8237-668	Gross beta	1st	pCi/L	260	247	1.05	Agreement
		3rd	pCi/L	257	249	1.03	Agreement
		4th	pCi/L	259	252	1.03	Agreement
Gross beta filter 2nd Qtr E7850-668 4th Qtr E8236-668	Gross beta	2nd	pCi	80.8	74.6	1.08	Agreement
		4th	pCi	66.2	65.5	1.01	Agreement
Tritium in water 1st Qtr E7456-668 4th Qtr E8235-668	H-3	1st	pCi/L	4250	4530	0.94	Agreement
		4th	pCi/L	10600	10900	0.97	Agreement
Iodine Cartridge 2nd Qtr E7849-668 4th Qtr E8238-668	I-131	2nd	pCi	86.0	85.9	1.00	Agreement
		4th	pCi	91.8	89.6	1.03	Agreement
Gamma Milk E7458-668	I-131	1st	pCi/L	97.0	96.9	1.00	Agreement
	Cr-51	1st	pCi/L	309	298	1.04	Agreement
	Cs-134	1st	pCi/L	124	130	0.95	Agreement
	Cs-137	1st	pCi/L	224	205	1.09	Agreement
	Co-58	1st	pCi/L	116	113	1.02	Agreement
	Mn-54	1st	pCi/L	286	266	1.07	Agreement
	Fe-59	1st	pCi/L	193	175	1.11	Agreement
	Zn-65	1st	pCi/L	281	261	1.08	Agreement
	Co-60	1st	pCi/L	179	172	1.04	Agreement
Gamma Soil E7459-668	Cr-51	1st	pCi/g	0.526	0.489	1.08	Agreement
	Cs-134	1st	pCi/g	0.223	0.214	1.04	Agreement
	Cs-137	1st	pCi/g	0.480	0.425	1.13	Agreement
	Co-58	1st	pCi/g	0.192	0.186	1.03	Agreement
	Mn-54	1st	pCi/g	0.475	0.436	1.09	Agreement
	Fe-59	1st	pCi/g	0.325	0.286	1.14	Agreement
	Zn-65	1st	pCi/g	0.472	0.428	1.10	Agreement
	Co-60	1st	pCi/g	0.298	0.281	1.06	Agreement
Gamma Vegetation E8111-668	Ce-141	3rd	pCi/g	0.156	0.169	0.92	Agreement
	Cr-51	3rd	pCi/g	0.546	0.573	0.95	Agreement
	Cs-134	3rd	pCi/g	0.289	0.325	0.89	Agreement
	Cs-137	3rd	pCi/g	0.280	0.288	0.97	Agreement
	Co-58	3rd	pCi/g	0.236	0.247	0.96	Agreement
	Mn-54	3rd	pCi/g	0.378	0.382	0.99	Agreement
	Fe-59	3rd	pCi/g	0.145	0.139	1.04	Agreement
	Zn-65	3rd	pCi/g	0.456	0.457	1.00	Agreement
	Co-60	3rd	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 2nd Qtr E7847-668 3rd Qtr E8112-668	Ce-141	2nd	pCi	52.0	52.3	0.99	Agreement
		3rd	pCi	66.0	69.0	0.96	Agreement
	Cr-51	2nd	pCi	137	135	1.02	Agreement
		3rd	pCi	226	234	0.96	Agreement
	Cs-134	2nd	pCi	132	124	1.06	Agreement
		3rd	pCi	136	133	1.02	Agreement
	Cs-137	2nd	pCi	99.0	90.2	1.10	Agreement
		3rd	pCi	118	118	1.00	Agreement
	Co-58	2nd	pCi	101	99.1	1.02	Agreement
		3rd	pCi	97.0	101	0.96	Agreement
	Mn-54	2nd	pCi	98.0	90.1	1.09	Agreement
		3rd	pCi	165	156	1.06	Agreement
	Fe-59	2nd	pCi	98.0	80.6	1.22	Agreement
		3rd	pCi	67.0	56.8	1.18	Agreement
	Zn-65	2nd	pCi	203	170	1.19	Agreement
		3rd	pCi	209	187	1.12	Agreement
	Co-60	2nd	pCi	135	127	1.06	Agreement
		3rd	pCi	158	163	0.97	Agreement
Gamma 13 Filter Composite E7848-668	Ce-141	2nd	pCi	62.0	64.7	0.96	Agreement
	Cr-51	2nd	pCi	166	167	1.00	Agreement
	Cs-134	2nd	pCi	159	154	1.04	Agreement
	Cs-137	2nd	pCi	117	112	1.05	Agreement
	Co-58	2nd	pCi	122	123	0.99	Agreement
	Mn-54	2nd	pCi	115	112	1.03	Agreement
	Fe-59	2nd	pCi	113	99.8	1.13	Agreement
	Zn-65	2nd	pCi	237	211	1.12	Agreement
	Co-60	2nd	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 2nd Qtr E7846-668 3rd Qtr E8109-668	I-131	2nd	pCi/L	102	101	1.01	Agreement
		3rd	pCi/L	82.0	80.1	1.02	Agreement
	Ce-141	2nd	pCi/L	94	93.5	1.01	Agreement
		3rd	pCi/L	93.0	91.5	1.02	Agreement
	Cr-51	2nd	pCi/L	251	241	1.04	Agreement
		3rd	pCi/L	329	310	1.06	Agreement
	Cs-134	2nd	pCi/L	210	222	0.95	Agreement
		3rd	pCi/L	166	176	0.94	Agreement
	Cs-137	2nd	pCi/L	174	161	1.08	Agreement
		3rd	pCi/L	166	156	1.06	Agreement
	Co-58	2nd	pCi/L	179	177	1.01	Agreement
		3rd	pCi/L	140	134	1.05	Agreement
	Mn-54	2nd	pCi/L	169	161	1.05	Agreement
		3rd	pCi/L	220	207	1.06	Agreement
	Fe-59	2nd	pCi/L	159	144	1.10	Agreement
		3rd	pCi/L	87.0	75.2	1.16	Agreement
	Zn-65	2nd	pCi/L	334	305	1.10	Agreement
		3rd	pCi/L	270	247	1.09	Agreement
	Co-60	2nd	pCi/L	239	228	1.05	Agreement
		3rd	pCi/L	218	215	1.01	Agreement

BSEP 2011 Interlaboratory Cross Check Performance Summary for Environmental Sample Media Types Analyzed

Sample	Nuclide	Quarter	Units	BSEP Value	EZA Value	BSEP/EZA Ratio	Evaluation
Tritium in Water A25706-10 1Q	H-3	1st	µCi/cc	9.24E-4	9.89E-4	0.93	Agreement
A26138-10 3Q		3rd	µCi/cc	2.07E-3	2.09E-3	0.99	Agreement
Solid	Ce-141	3rd	µCi	2.00E-2	2.11E-2	0.95	Agreement
A26137-10 3Q	Cr-51	3rd	µCi	8.23E-2	8.11E-2	1.02	Agreement
A26475-10 (4L) 4Q		4th	µCi	2.15E-1	2.01E-1	1.07	Agreement
A26476-10 4Q		4th	µCi	6.37E-2	6.25E-2	1.02	Agreement
	Cs-134	3rd	µCi	1.95E-2	2.02E-2	0.96	Agreement
		4th	µCi	3.34E-2	3.18E-2	1.05	Agreement
		4th	µCi	9.10E-3	9.86E-3	0.92	Agreement
	Cs-137	3rd	µCi	1.77E-2	1.74E-2	1.02	Agreement
		4th	µCi	4.33E-2	3.81E-2	1.14	Agreement
		4th	µCi	1.16E-2	1.18E-2	0.98	Agreement
	Co-58	3rd	µCi	2.08E-2	2.08E-2	1.00	Agreement
		4th	µCi	5.35E-2	5.21E-2	1.03	Agreement
		4th	µCi	1.59E-2	1.61E-2	0.98	Agreement
	Mn-54	3rd	µCi	2.67E-2	2.49E-2	1.07	Agreement
		4th	µCi	5.01E-2	4.63E-2	1.08	Agreement
		4th	µCi	1.40E-2	1.44E-2	0.97	Agreement
	Fe-59	3rd	µCi	1.53E-2	1.42E-2	1.08	Agreement
		4th	µCi	5.48E-2	5.06E-2	1.08	Agreement
		4th	µCi	1.57E-2	1.57E-2	1.00	Agreement
	Zn-65	3rd	µCi	3.27E-2	3.04E-2	1.07	Agreement
		4th	µCi	6.08E-2	5.71E-2	1.06	Agreement
		4th	µCi	1.85E-2	1.77E-2	1.04	Agreement
	Co-60	3rd	µCi	2.44E-2	2.43E-2	1.01	Agreement
		4th	µCi	5.27E-2	4.96E-2	1.06	Agreement
		4th	µCi	1.52E-2	1.54E-2	0.99	Agreement

Other BSEP Interlaboratory Cross Check Program Results from 2011 will be supplied upon request.

Lower Limits of Detection

All samples analyzed met the LLD required by the ODCM. Typical/Worst Case "a priori" LLD values for the samples analyzed are listed in Table 6.

TABLE 6
TYPICAL/WORST CASE LOWER LIMITS OF DETECTION (A PRIORI)
GAMMA SPECTROMETRY

Surface Water Samples (Saline Water)	
Isotope	**LLD (pCi/l)**
Mn-54	3
Co-58	4
Fe-59	8
Co-60	4
Zn-65	7
Zr-Nb-95	6 / 4
I-131	14
Cs-134	4
Cs-137	4
Ba-La-140	24 / 7
Air Particulates (Quarterly Composite)	
Isotope	**LLD (pCi/m^3)**
Cs-134	5.6E-3
Cs-137	4.3E-3
I-131	4.3E-2
Shoreline Sediment	
Isotope	**LLD (pCi/kg, dry)**
Cs-134	129
Cs-137	89
Fe-55 (Hard-to-detect [HTD])	20,000
Sr-89/90 {HTD]	2000 / 2000
Fish	
Isotope	**LLD (pCi/kg, wet)**
Mn-54	46
Co-58	54
Fe-59	131
Co-60	48
Zn-65	102
Cs-134	53
Cs-137	45
Food Products and Vegetation	
Isotope	**LLD (pCi/kg, wet)**
I-131	49
Cs-134	25
Cs-137	28
Air Cartridge	
Isotope	**LLD (pCi/m^3)**
I-131	5.0E-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 both to ensure the monitoring program is current as well as to provide data for the calculation of estimated radiation exposure.

The pathways that are evaluated are:

- Ingestion Pathway - Results from eating food crops that may have radioactive materials deposited on them from the atmosphere or contain radioactive materials from the soil. Another pathway is through drinking milk from local cows or goats if these are present. The grass used to feed these animals may have incorporated or had deposited on it radioactive materials that can be transferred to the milk.

- Direct Radiation Exposure Pathway - Results from deposition of radioactive materials on the ground or from passage of these radioactive materials in the air.

- Inhalation Pathway - Results from breathing radioactive materials transported in the air.

Methodology

The following must be identified within the five-mile radius of the plant for each of the 16 meteorological sectors (compass direction from which the winds may blow, for example NNE [North North East]):

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

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

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

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

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 7.

The resident portion of the census conducted in June of 2011 identified one (1) change in the number address of the nearest resident in the WNW sector from plant center from 2010, but the physical location of the resident did not change. The garden portion of the census identified changes in the distances, locations, and existence (or non-existence) of the nearest garden in nine sectors during the 2011 census.

The nearest garden location changed in the North (N) sector from 0.9 miles to 0.8 miles, the address changed for the garden in the North Northeast (NNE) sector, the East Southeast (ESE) sector changed to no garden, the South (S) sector from 1.6 miles to 1.1 miles, the South Southwest (SSW) sector from 1.7 miles to 1.8 miles, the Southwest (SW) sector from 1.6 miles to 1.9 miles, the West (W) sector from 1.0 mile to 0.9 miles, the West Northwest (WNW) sector from no garden to a garden at 1.0 mile, and the Northwest (NW) sector from 1.0 mile to 4.9 miles. No milk animals were located within 5 miles of the plant in 2011.

The 2011 Garden Census was conducted within three (3) miles of BSEP and identifies all gardens of greater than 500 square feet that were found in the survey area. Results of the garden census are located in Table 8.

Results of the 2011 Land Use and Garden Census indicate stable use of land, confirming that current control locations are appropriate, and no changes are needed for dose assessment and environmental motoring.

TABLE 7

Brunswick Steam Electric Plant
LAND USE CENSUS COMPARISONS (2010- 2011)
NEAREST PATHWAY (MILES)

SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2010	2011	2010	2011	2010	2011
N	0.7	0.7	0.9	0.8*	None	None
NNE	0.8	0.8	0.9	0.9*	None	None
NE	None	None	None	None	None	None
ENE	None	None	None	None	None	None
E	None	None	None	None	None	None
ESE	1.4	1.4	1.4	None*	None	None
SE	None	None	None	None	None	None
SSE	2.1	2.1	None	None	None	None
S	1.1	1.1	1.6	1.1*	None	None
SSW	1.2	1.2	1.7	1.8*	None	None
SW	1.1	1.1	1.6	1.9*	None	None
WSW	1.2	1.2	1.2	1.2	None	None
W	0.9	0.9	1.0	0.9*	None	None
WNW	0.9	0.9*	None	1.0*	None	None
NW	0.9	0.9	1.0	4.9*	None	None
NNW	0.8	0.8	0.9	0.9	None	None

* Represents a change from the previous year.

TABLE 8

Brunswick Steam Electric Plant

GARDEN CENSUS (2011)

SECTOR	DISTANCE (miles)		SECTOR	DISTANCE (miles)
N	0.8		SW	2.9
N	1		SW	3.0
NNE	0.9		WSW	1.2
NNE	1		WSW	1.3
NE	None		WSW	1.6
ENE	None		WSW	1.9
E	None		WSW	2.1
ESE	None		WSW	2.1
SE	None		WSW	2.2
SSE	None		WSW	3.0
S	1.1		W	0.9
S	1.8		W	0.9
S	2.0		W	1.2
S	2.0		W	1.2
S	2.3		W	2.6
S	2.3		W	2.6
S	2.3		W	2.6
S	2.3		W	2.7
S	2.4		W	2.7
S	2.4		W	2.7
SSW	1.8		W	2.7
SSW	1.9		W	2.7
SSW	2.0		WNW	1.0
SSW	2.0		WNW	1.4
SSW	2.1		NW	4.9
SSW	2.1		NNW	0.9
SSW	2.2		NNW	0.9
SSW	2.2		NNW	4.3
SSW	2.2		NNW	4.3
SSW	2.3		NNW	4.4
SSW	2.3		NNW	4.6
SSW	2.3		NNW	4.6
SSW	2.4		NNW	4.6
SSW	2.6		NNW	4.6
SSW	2.7		NNW	4.6
SSW	2.7		NNW	4.7
SSW	2.8		NNW	4.7
SSW	2.8		NNW	4.8
SW	1.9		NNW	4.8
SW	2.2		NNW	4.9
SW	2.5		N/A	N/A

Figure 16 For BNP from 1/1/2011 To 12/31/2011

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

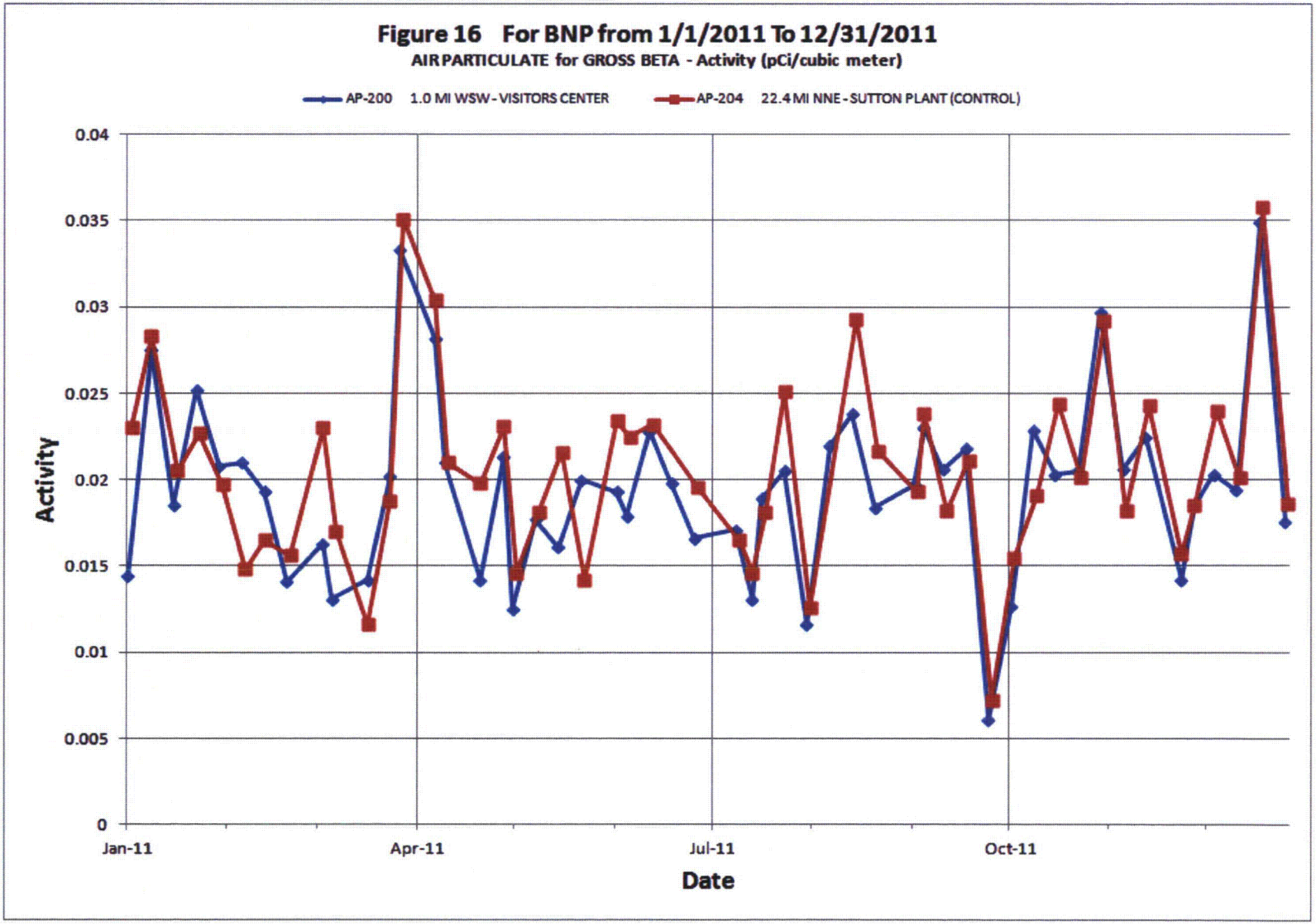
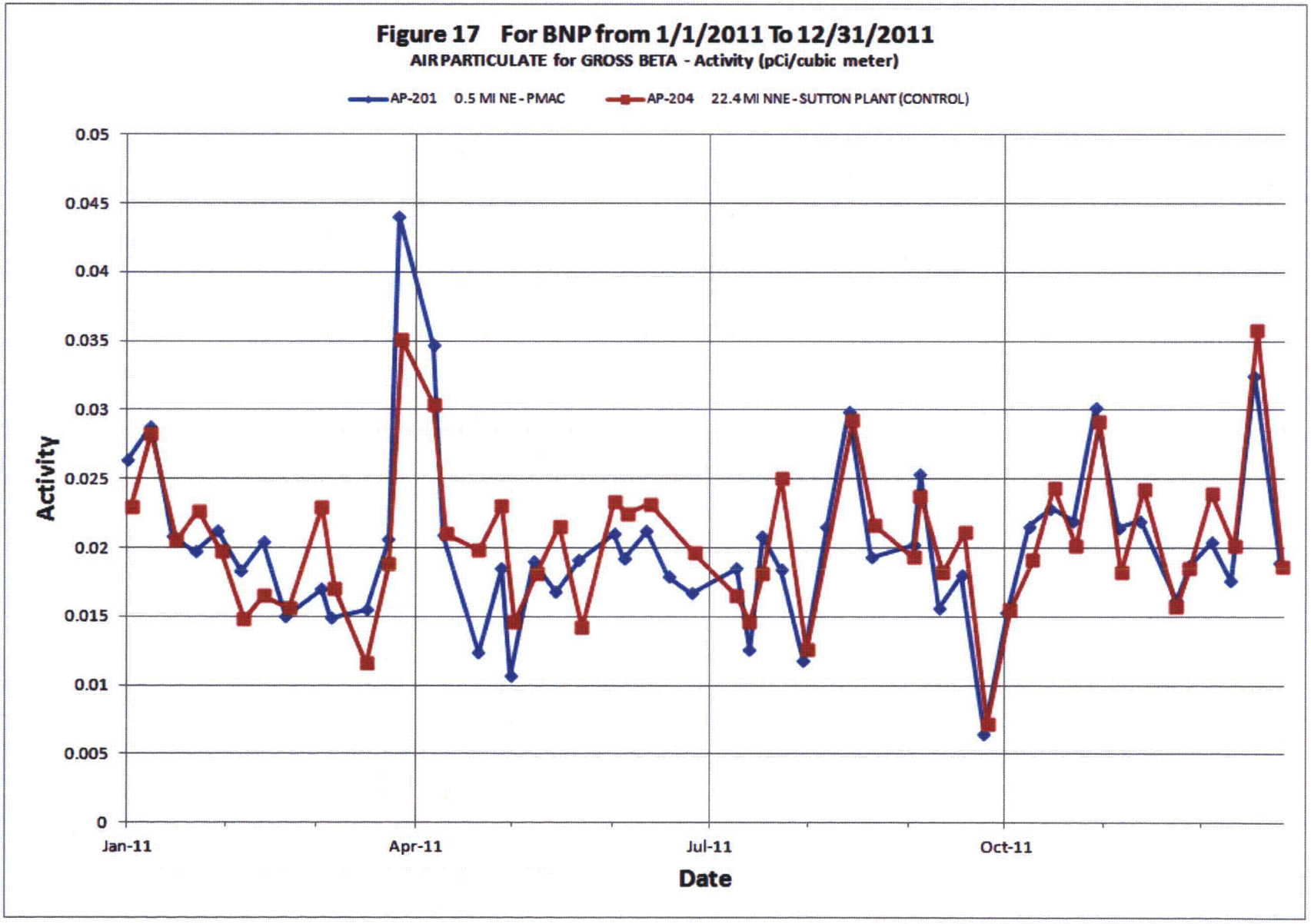


Figure 17 For BNP from 1/1/2011 To 12/31/2011

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



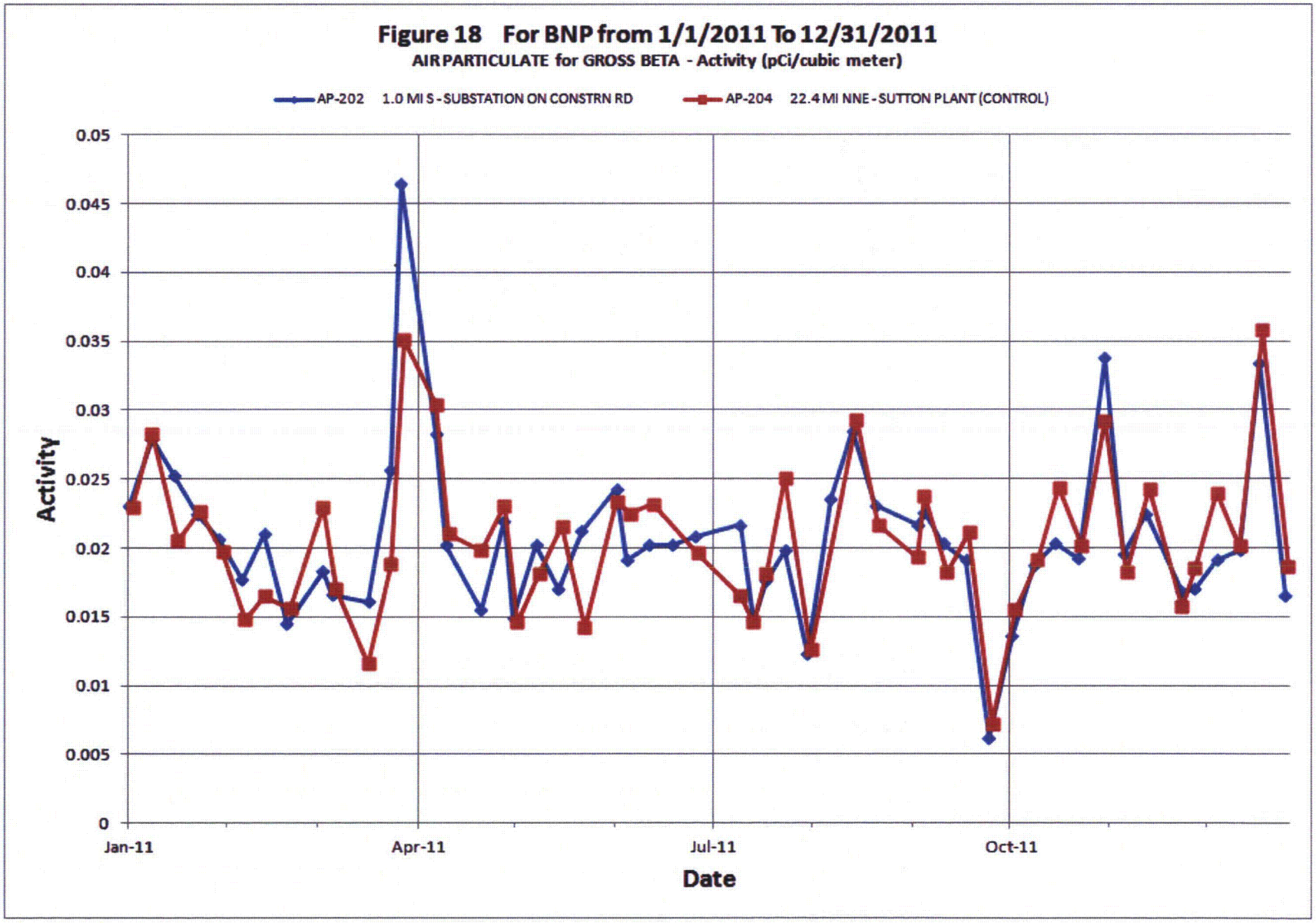


Figure 18 For BNP from 1/1/2011 To 12/31/2011
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
AP-202 1.0 MI S - SUBSTATION ON CONSTRN RD
AP-204 22.4 MI NNE - SUTTON PLANT (CONTROL)
Activity
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Jan-11
Apr-11
Jul-11
Oct-11
Date

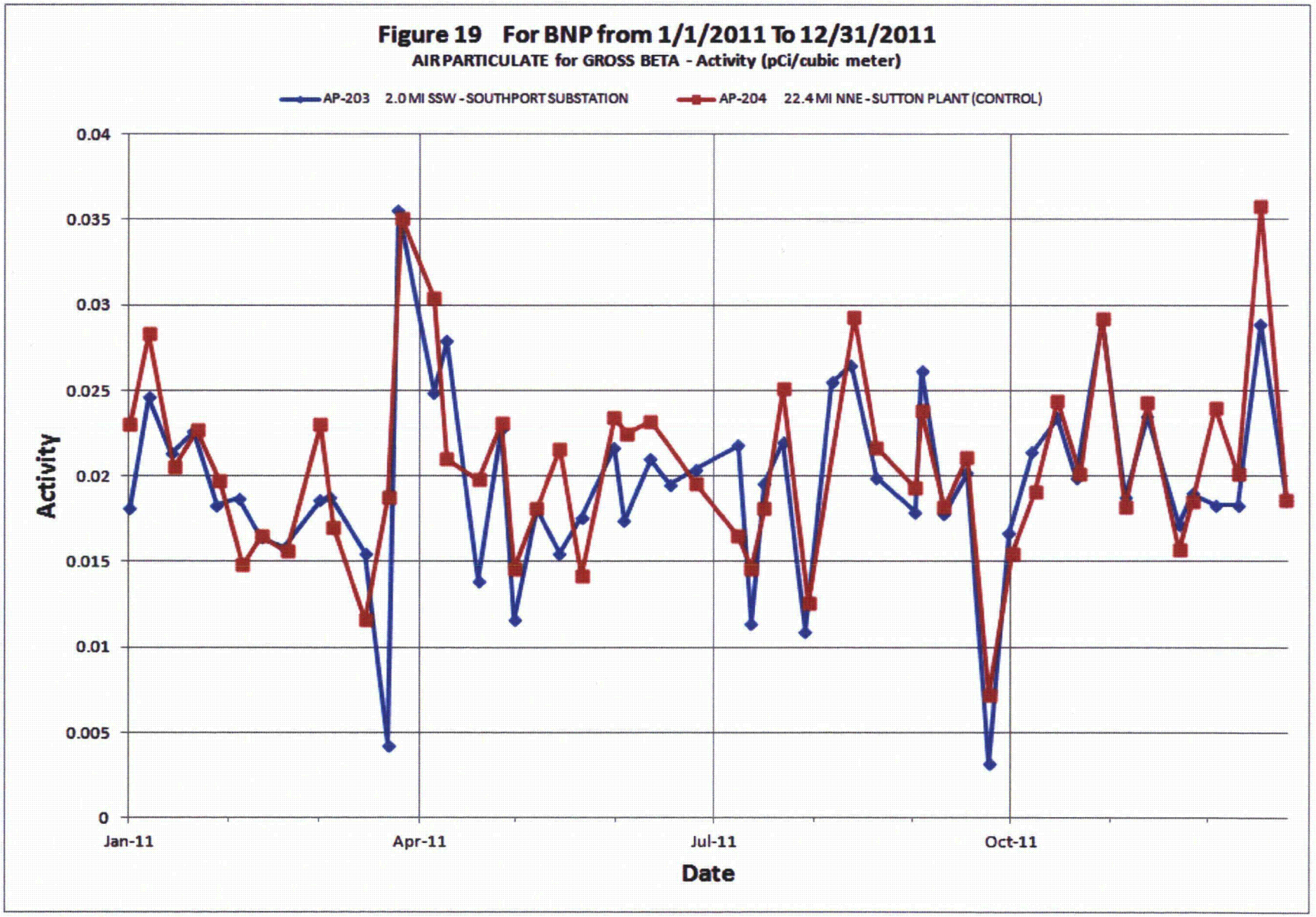
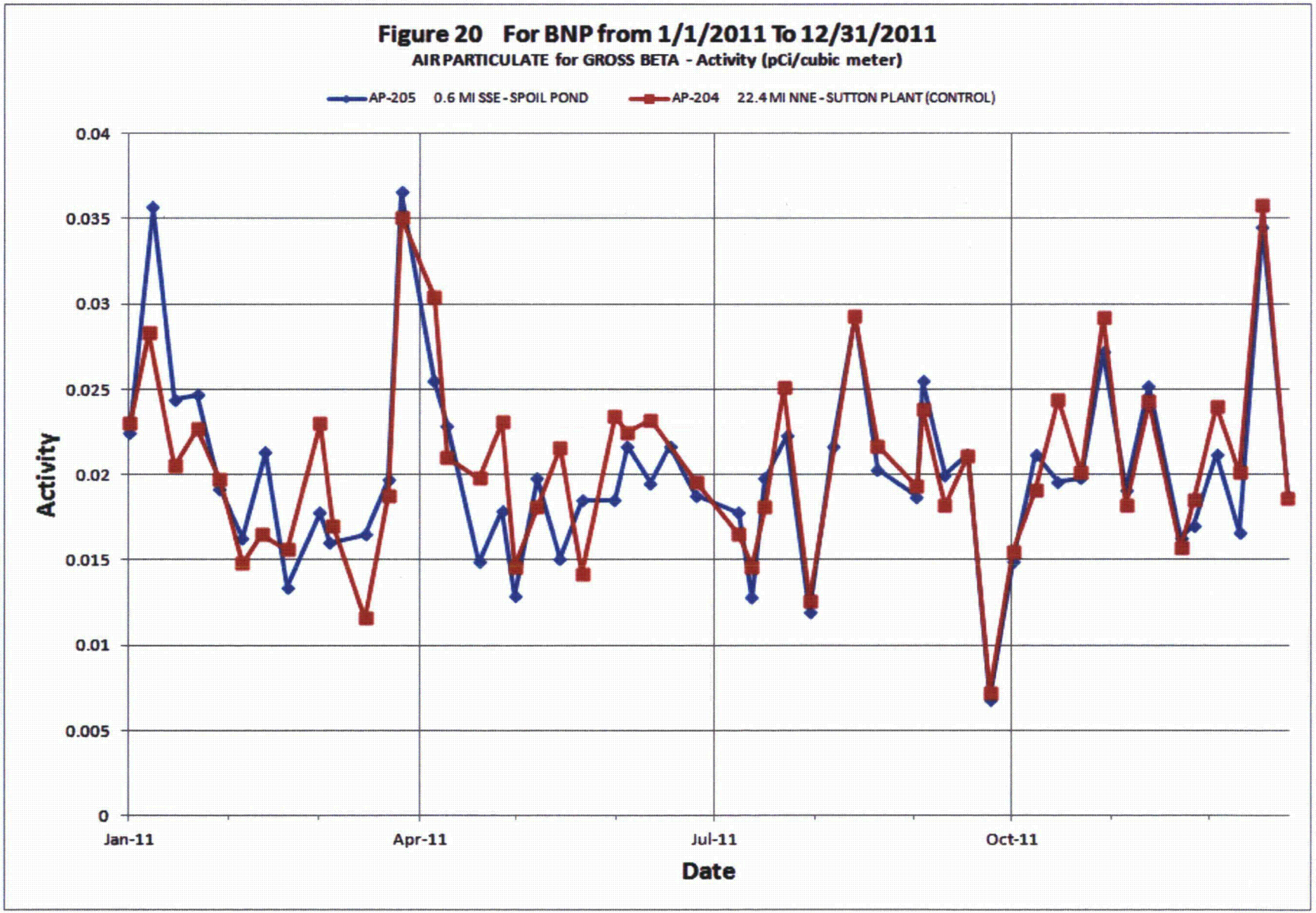


Figure 19 For BNP from 1/1/2011 To 12/31/2011
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
AP-203 2.0 MI SSW - SOUTHPORT SUBSTATION
AP-204 22.4 MI NNE - SUTTON PLANT (CONTROL)
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Activity
Jan-11
Apr-11
Jul-11
Oct-11
Date

Figure 20 For BNP from 1/1/2011 To 12/31/2011

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



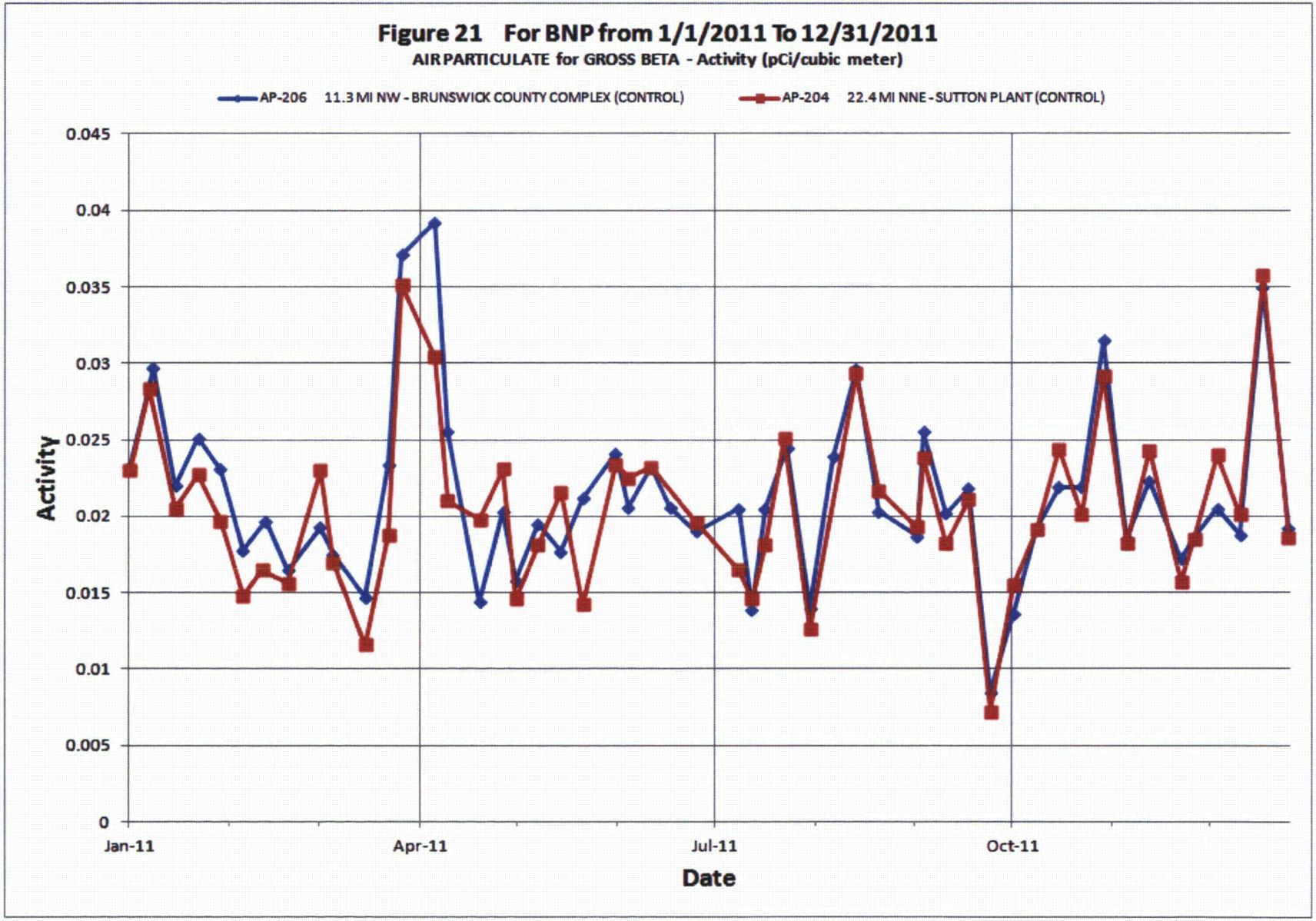


Figure 21 For BNP from 1/1/2011 To 12/31/2011
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
AP-206 11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)
AP-204 22.4 MI NNE - SUTTON PLANT (CONTROL)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Activity
Jan-11
Apr-11
Jul-11
Oct-11
Date

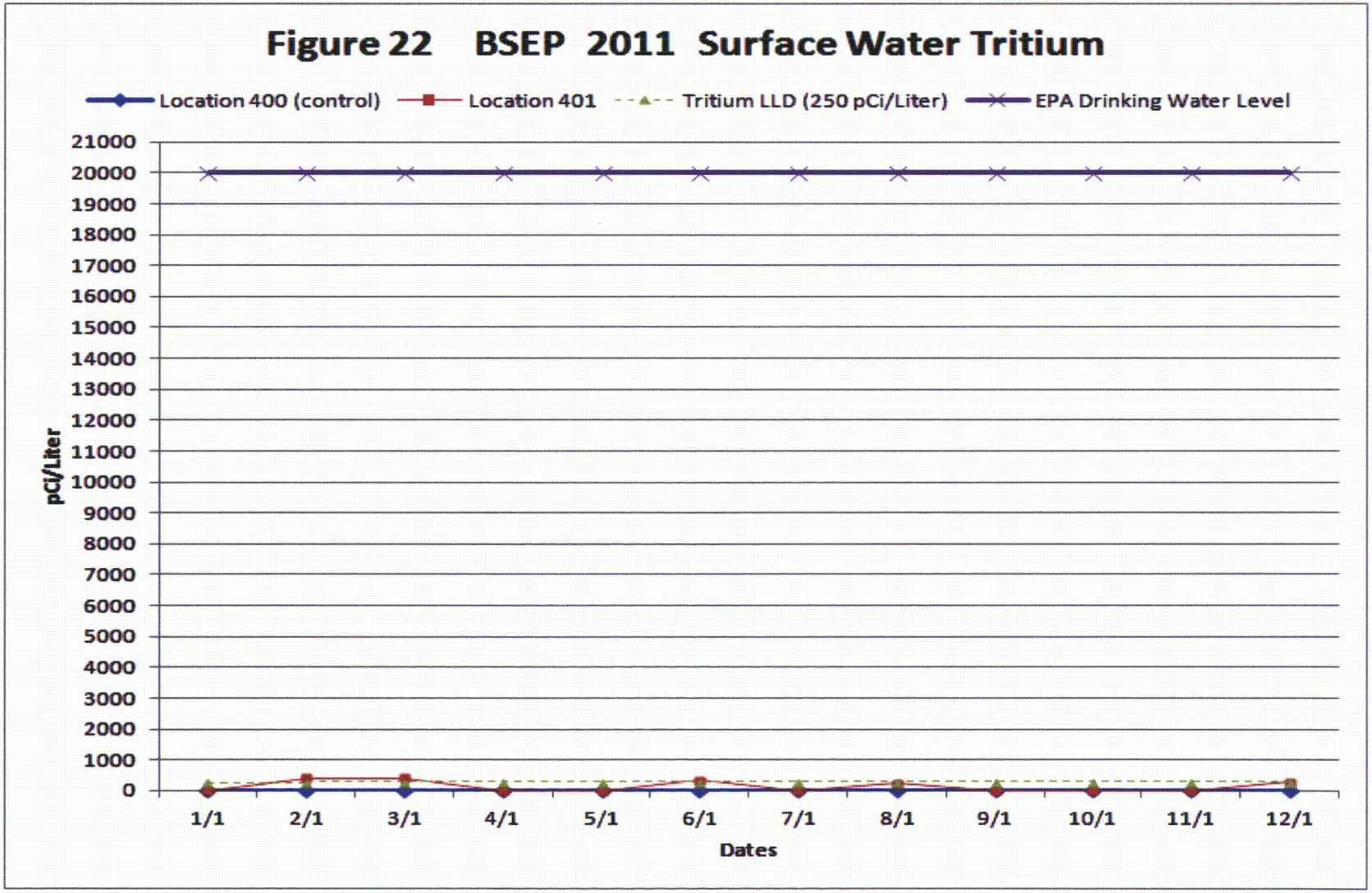
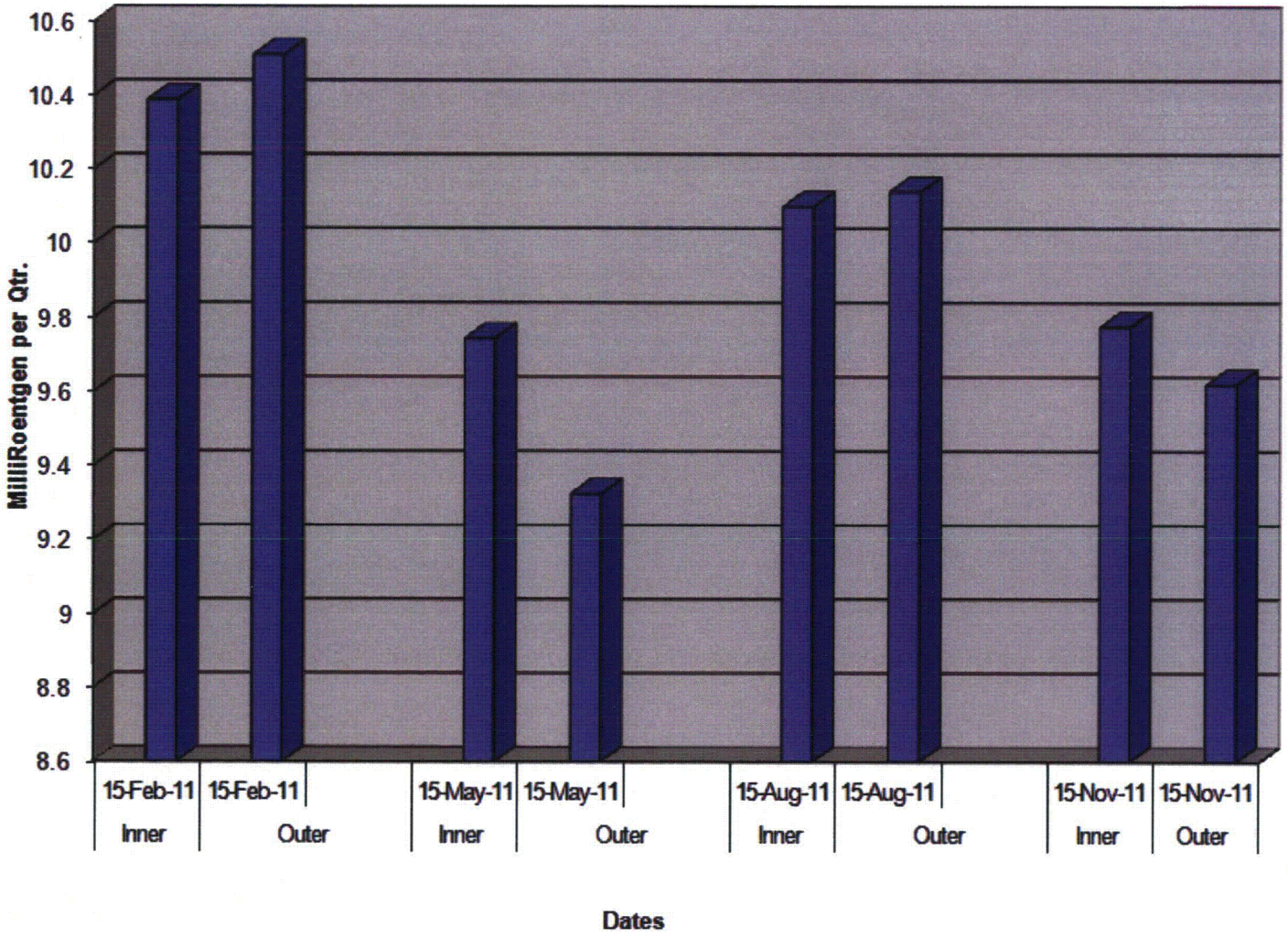


Figure 22 BSEP 2011 Surface Water Tritium
Location 400 (control)
Location 401
Tritium LLD (250 pCi/Liter)
EPA Drinking Water Level
21000
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
pCi/Liter
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1
10/1
11/1
12/1
Dates

Figure 23 BSEP 2011 TLD Averages for Inner and Outer Ring Locations



APPENDIX

The attached information contains excerpts from the 2011 Interlaboratory Comparison Program Report supplied by GEL Laboratories LLC. Any additional information pertaining to the report will be supplied upon request.

2011 ANNUAL QUALITY ASSURANCE REPORT

FOR THE

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)

GEL LABORATORIES, LLC
P.O. Box 30712, Charleston, SC 29417
843.556.8171

2011 ANNUAL QUALITY ASSURANCE REPORT

FOR THE

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)

Prepared By: _____ March 1, 2012
Martha J. Harrison Date
Quality Assurance Officer

Approved By: _____ March 1, 2012
Robert L. Pullano Date
Director, Quality Systems

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1. Introduction

GEL Laboratories, LLC (GEL) is a privately owned environmental laboratory dedicated to providing personalized client services of the highest quality. GEL was established as an analytical testing laboratory in 1981. Now a full service lab, our analytical divisions use state of the art equipment and methods to provide a comprehensive array of organic, inorganic, and radiochemical analyses to meet the needs of our clients.

At GEL, quality is emphasized at every level of personnel throughout the company. Management's ongoing commitment to good professional practice and to the quality of our testing services to our customers is demonstrated by their dedication of personnel and resources to develop, implement, assess, and improve our technical and management operations.

The purpose of GEL's quality assurance program is to establish policies, procedures, and processes to meet or exceed the expectations of our clients. To achieve this, all personnel that support these services to our clients are introduced to the program and policies during their initial orientation, and annually thereafter during company-wide training sessions.

GEL's primary goals are to ensure that all measurement data generated are scientifically and legally defensible, of known and acceptable quality per the data quality objectives (DQOs), and thoroughly documented to provide sound support for environmental decisions. In addition, GEL continues to ensure compliance with all contractual requirements, environmental standards, and regulations established by local, state and federal authorities.

GEL administers the QA program in accordance with the Quality Assurance Plan, GL-QS-B-001. Our Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work we perform. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of our organization.

This report entails the quality assurance program for the proficiency testing and environmental monitoring aspects of GEL for 2011. GEL's QA Program is designed to monitor the quality of analytical processing associated with environmental, radiobioassay, effluent (10 CFR Part 50), and waste (10 CFR Part 61) sample analysis.

This report covers the category of Radiological Environmental Monitoring Program (REMP) and includes:

- Intra-laboratory QC results analyzed during 2011.
- Inter-laboratory QC results analyzed during 2011 where known values were available.

2. Quality Assurance Programs for Inter-laboratory, Intra-laboratory and Third Party Cross-Check

In addition to internal and client audits, our laboratory participates in annual performance evaluation studies conducted by independent providers. We routinely participate in the following types of performance audits:

- Proficiency testing and other inter-laboratory comparisons
- Performance requirements necessary to retain Certifications
- Evaluation of recoveries of certified reference and in-house secondary reference materials using statistical process control data.
- Evaluation of relative percent difference between measurements through SPC data.

We also participate in a number of proficiency testing programs for federal and state agencies and as required by contracts. It is our policy that no proficiency evaluation samples be analyzed in any special manner. Our annual performance evaluation participation generally includes a combination of studies that support the following:

- US Environmental Protection Agency Discharge Monitoring Report, Quality Assurance Program (DMR-QA). Annual national program sponsored by EPA for laboratories engaged in the analysis of samples associated with the NPDES monitoring program. Participation is mandatory for all holders of NPDES permits. The permit holder must analyze for all of the parameters listed on the discharge permit. Parameters include general chemistry, metals, BOD/COD, oil and grease, ammonia, nitrates, etc.

- Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP). A semiannual program developed by DOE in support of DOE contractors performing waste analyses. Participation is required for all laboratories that perform environmental analytical measurements in support of environmental management activities. This program includes radioactive isotopes in water, soil, vegetation and air filters.

- ERA's MRAD-Multimedia Radiochemistry Proficiency test program. This program is for labs seeking certification for radionuclides in wastewater and solid waste. The program is conducted in strict compliance with USEPA National Standards for Water Proficiency study.

- ERA's InterLaB RadCheM Proficiency Testing Program for radiological analyses. This program completes the process of replacing the USEPA EMSL-LV Nuclear Radiation Assessment Division program discontinued in 1998. Laboratories seeking certification for radionuclide analysis in drinking water also use the study. This program is conducted in strict compliance with the USEPA National Standards for Water Proficiency Testing Studies. This program encompasses Uranium by EPA method 200.8 (for drinking water certification in Florida/Primary NELAP), gamma emitters, Gross Alpha/Beta, Iodine-131, naturally occurring radioactive isotopes, Strontium-89/90, and Tritium.

- ERA's Water Pollution (WP) biannual program for waste methodologies includes parameters for both organic and inorganic analytes.

- ERA's Water Supply (WS) biannual program for drinking water methodologies includes parameters for organic and inorganic analytes.

- Environmental Cross-Check Program administered by Eckert & Ziegler Analytics, Inc. This program encompasses radionuclides in water, soil, milk, naturally occurring radioactive isotopes in soil and air filters.

GEL procures single-blind performance evaluation samples from Eckert & Ziegler Analytics to verify the analysis of sample matrices processed at GEL. Samples are received on a quarterly basis. GEL's Third-Party Cross-Check Program provides environmental matrices encountered in a typical nuclear utility REMP. The Third-Party Cross-Check Program is intended to meet or exceed the inter-laboratory comparison program requirements discussed in NRC Regulatory Guide 4.15, revision 1. Once performance evaluation samples have been prepared in accordance with the instructions provided by the PT provider, samples are managed and analyzed in the same manner as environmental samples from GEL's clients.

3. Quality Assurance Program for Internal and External Audits

During each annual reporting period, at least one internal assessment is conducted in accordance with the pre-established schedule from Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E001. The annual internal audit plan is reviewed for adequacy and includes the scheduled frequency and scope of quality control actions necessary to GEL's QA program. Internal audits are conducted at least annually in accordance with a schedule approved by the Quality Systems Director. Supplier audits are contingent upon the categorization of the supplier, and may or may not be conducted prior to the use of a supplier or subcontractor. Type I suppliers and subcontractors, regardless of how they were initially qualified, are re-evaluated at least once every three years.

In addition, prospective customers audit GEL during pre-contract audits. GEL hosts several external audits each year for both our clients and other programs. These programs include environmental monitoring, waste characterization, and radiobioassay. The following list of programs may audit GEL at least annually or up to every three years depending on the program.

- NELAC, National Environmental Laboratory Accreditation Program
- DOECAP, U.S. Department of Energy Consolidated Audit Program
- DOELAP, U.S. Department of Energy Laboratory Accreditation Program
- DOE QSAS, U.S. Department of Energy, Quality Systems for Analytical Services
- ISO/IEC 17025
- A2LA, American Association for Laboratory Accreditation
- DOD ELAP, US Department of Defense Environmental Accreditation Program
- NUPIC, Nuclear Procurement Issues Committee
- South Carolina Department of Heath and Environmental Control (SC DHEC)

The annual radiochemistry laboratory internal audit (11-RAD-001) was conducted in March 2011. Two (2) findings, three (3) observations, and four (4) recommendations resulted from this assessment. In April 2011, each finding was closed and appropriate laboratory staff addressed each observation and recommendation.

The Nuclear Procurement Issues Committee (NUPIC) audit was conducted on November 14, 2011 through November 18, 2011. This Duke Energy/NUPIC QA audit was performed for the activities and/or documentation/records associated with GEL Laboratories supplying general chemistry, radiochemistry and bioassay analytical services. This audit found that the GEL Laboratories quality system is well documented and/or implemented, and is acceptable.

With the exception of the six (6) audit findings, all of the requirements of GEL Laboratories Quality Assurance Plan audited were found to be satisfactorily implemented, and therefore, "Continued approval of GEL Laboratories as an Appendix B supplier of general chemistry, radiochemistry and bioassay analytical services is recommended."

All responses to the six findings have been adequately addressed by GEL. The Audit Report # 22837-A for Supplier Number 5644 has been posted on the NUPIC website.

4. Performance Evaluation Acceptance Criteria for Environmental Sample Analysis

GEL utilized an acceptance protocol based upon two performance models. For those inter-laboratory programs that already have established performance criteria for bias (i.e., MAPEP, and ERA/ELAP), GEL will utilize the criteria for the specific program. For intra-laboratory or third party quality control programs that do not have a specific acceptance criteria (i.e. the Eckert-Ziegler Analytics Environmental Cross-check Program), results will be evaluated in accordance with GEL's internal acceptance criteria.

5. Performance Evaluation Samples

Performance Evaluation (PE) results and internal quality control sample results are evaluated in accordance with GEL acceptance criteria. The first criterion concerns bias, which is defined as the deviation of any one result from the known value. The second criterion concerns precision, which deals with the ability of the measurement to be replicated by comparison of an individual result with the mean of all results for a given sample set.

At GEL, we also evaluate our analytical performance on a regular basis through statistical process control (SPC) acceptance criteria. Where feasible, this criterion is applied to both measures of precision and accuracy and is specific to sample matrix. We establish environmental process control limits at least annually.

For Radiochemistry analysis, quality control evaluation is based on static limits rather than those that are statistically derived. Our current process control limits are maintained in GEL's AlphaLIMS. We also measure precision with matrix duplicates and/or matrix spike duplicates. The upper and lower control limits (UCL and LCL respectively) for precision are plus or minus three times the standard deviation from the mean of a series of relative percent differences. The static precision criteria for radiochemical analyses are 0 - 20%, for activity levels exceeding the contract required detection limit (CRDL).

6. Quality Control Program for Environmental Sample Analysis

GEL's internal QA Program is designed to include QC functions such as instrumentation calibration checks (to insure proper instrument response), blank samples, instrumentation backgrounds, duplicates, as well as overall staff qualification analyses and statistical process controls. Both quality control and qualification analyses samples are used to be as similar as

the matrix type of those samples submitted for analysis by the various laboratory clients. These performance test samples (or performance evaluation samples) are either actual sample submitted in duplicate in order to evaluate the precision of laboratory measurements, or fortified blank samples, which have been given a known quantity of a radioisotope that is in the interest to GEL's clients.

Accuracy (or Bias) is measured through laboratory control samples and/or matrix spikes, as well as surrogates and internal standards. The UCLs and LCLs for accuracy are plus or minus three times the standard deviation from the mean of a series of recoveries. The static limit for radiochemical analyses is 75 - 125%. Specific instructions for out-of-control situations are provided in the applicable analytical SOP.

GEL's Laboratory Control Standard (LCS) is an aliquot of reagent water or other blank matrix to which known quantities of the method analytes are added in the laboratory. The LCS is analyzed exactly like a sample, and its purpose is to determine whether the methodology is in control, and whether the laboratory is capable of making accurate and precise measurements. Some methods may refer to these samples as Laboratory Fortified Blanks (LFB). The requirement for recovery is between 75 and 125% for radiological analyses excluding drinking water matrix.

$$\text{Bias (\%)} = \frac{\text{(observed concentration)}}{\text{(known concentration)}} * 100\ \%$$

Precision is a data quality indicator of the agreement between measurements of the same property, obtained under similar conditions, and how well they conform to themselves. Precision is usually expressed as standard deviation, variance or range in either absolute or relative (percentage) terms.

GEL's laboratory duplicate (DUP or LCSD) is an aliquot of a sample taken from the same container and processed in the same manner under identical laboratory conditions. The aliquot is analyzed independently from the parent sample and the results are compared to measure precision and accuracy.

If a sample duplicate is analyzed, it will be reported as Relative Percent Difference (RPD). The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

$$\text{Difference (\%)} = \frac{\text{(high duplicate result – low duplicate result)}}{\text{(average of results)}} * 100\ \%$$

7. Summary of Data Results

During 2011, forty-three radioisotopes associated with seven matrix types were analyzed under GEL's Performance Evaluation program in participation with ERA, MAPEP, and Eckert &

Ziegler Analytics. Matrix types were representative of client analyses performed during 2011. The list below contains the type of matrix evaluated by GEL.

- Air Filter
- Cartridge
- Water
- Milk
- Soil
- Liquid
- Vegetation

Graphs are provided in Figures 1-9 of this report to allow for the evaluation of trends or biases. These graphs include radioisotopes Cobalt-60, Cesium-137, Tritium, Strontium-90, Gross Alpha, Gross Beta, Iodine-131, Americium-241, and Plutonium-238.

8. Summary of Participation in the Eckert & Ziegler Analytics Environmental Cross-Check Program

Eckert & Ziegler Analytics provided samples for 89 individual environmental analyses. The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. is measured by the ratio of GEL's result to the known value. Of the 89 analyses, 98% (87 out of 89) of all results fell within GEL's acceptance criteria. Two analytical failures occurred with the analysis of Chromium-51 in water and Strontium-90 in milk.

For the corrective actions associated with these failures, refer to CARR110912-626 and CARR111129-644 (Table 6).

9. Summary of Participation in the MAPEP Monitoring Program

MAPEP Series 23, 24 and 25 were analyzed by the laboratory. Of the 167 analyses, 94% (157 out of 167) of all results fell within the PT provider's acceptance criteria. Ten analytical failures occurred: Plutonium-238 in soil, Plutonium-239/240 in soil, Plutonium-238 in water, Gross Alpha in filter, Iron-55 in soil, Iron-55 in water, Gross Alpha in filter, Gross Beta in filter, Plutonium-239/240 in filter, and Uranium-238 in filter.

For the corrective actions associated with MAPEP Series 23, 24 and 25, refer to CARR101122-526, CARR110107-533, CARR110705-12, CARR110809-618, CARR111219-653, and CARR120118-659 (Table 6).

10. Summary of Participation in the ERA MRaD PT Program

The ERA MRad program provided samples (MRAD-14 and MRAD-15) for 176 individual environmental analyses. Of the 176 analyses, 97% (170 out of 176) of all results fell within the PT provider's acceptance criteria. Six analytical failures occurred: Cesium-134 in soil, Americium-241 in soil, Gross Alpha in filter, Gross Beta in filter, Iron-55 in water, and Lead-214 in soil.

For the corrective actions associated with MRAD 14 and MRAD-15, refer to corrective actions CARR110603-600 and CARR111129-645 (Table 6).

11. Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-84, RAD-86, RAD-87 and RAD-800) for 69 individual environmental analyses. Of the 69 analyses, 96% (66 out of 69) of all results fell within the PT provider's acceptance criteria. Three analytical failures occurred: Barium-133 in water, Zinc-65 in soil, and I-131 in water.

For the corrective actions associated with RAD-84 and RAD-86, refer to corrective actions CARR110307-548, CARR110812-621, and CARR110912-628 (Table 6).

12. Corrective Action Request and Report (CARR)

There are two categories of corrective action at GEL. One is corrective action implemented at the analytical and data review level in accordance with the analytical SOP. The other is formal corrective action documented by the Quality Systems Team in accordance with GL-QS-E-002. A formal corrective action is initiated when a nonconformance reoccurs or is so significant that permanent elimination or prevention of the problem is required.

GEL includes quality requirements in most analytical standard operating procedures to ensure that data are reported only if the quality control criteria are met or the quality control measures that did not meet the acceptance criteria are documented. A formal corrective action is implemented according to GL-QS-E-002 for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement. Recording and documentation is performed following guidelines stated in GL-QS-E-012 for Client NCR Database Operation.

Any employee at GEL can identify and report a nonconformance and request that corrective action be taken. Any GEL employee can participate on a corrective action team as requested by the QS team or Group Leaders. The steps for conducting corrective action are detailed in GL-QS-E-002. In the event that correctness or validity of the laboratory's test results in doubt, the laboratory will take corrective action. If investigations show that the results have been impacted, affected clients will be informed of the issue in writing within five (5) calendar days of the discovery.

Table 6 provides the status of CARRs for radiological performance testing during 2011.

13. References

1. GEL Quality Assurance Plan, GL-QS-B-001
2. GEL Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001
3. GEL Standard Operating Procedure for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement, GL-QS-E-002
4. GEL Standard Operating Procedure for AlphaLIMS Documentation of Nonconformance Reporting and Dispositioning and Control of Nonconforming Items, GL-QS-E-004
5. GEL Standard Operating Procedure for Handling Proficiency Evaluation Samples, GL-QS-E-013
6. GEL Standard Operating Procedure for Quality Assurance Measurement Calculations and Processes, GL-QS-E-014
7. 40 CFR Part 136 Guidelines Establishing Test Procedures for the Analysis of Pollutants
8. ISO/IEC 17025-2005, General Requirements for the Competence of Testing and Calibration Laboratories
9. ANSI/ASQC E4-1994, Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, American National Standard
10. 2003 NELAC Standard, National Environmental Laboratory Accreditation Program
11. MARLAP, Multi-Agency Radiological Laboratory Analytical Protocols
12. 10 CFR Part 21, Reporting of Defects and Noncompliance
13. 10 CFR Part 50 Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants
14. 10 CFR Part 61, Licensing Requirements for Land Disposal and Radioactive Waste
15. NRC REG Guide 4.15 and NRC REG Guide 4.8

2011 BSEP
Radiological Environmental Monitoring
TLD Report

Comments

- All BSEP Environmental TLDs were present in 2011.
- TLD points 41 thru 74 are not ODCM TLD sample points and are not listed.
- TLD sample points 19 and 80 have been retired and are not used.
- TLD sample points 82 thru 85 for Independent Spent Fuel Storage Installation (ISFSI) are listed in a separate report.
  - The ISFSI TLDs are not included in the Environmental TLD statistical calculations.
  - The ISFSI TLDs have their own statistical calculations.

BNP Radiological Environmental Monitoring TLD Report

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
1	1.1 MI E	2/15/2011	10.2	0.9
1	1.1 MI E	5/15/2011	10.1	0.9
1	1.1 MI E	8/15/2011	9.8	1.5
1	1.1 MI E	11/15/2011	10	1.5
2	0.9 MI ESE	2/15/2011	9.7	1.2
2	0.9 MI ESE	5/15/2011	10.6	1.7
2	0.9 MI ESE	8/15/2011	9.2	0.8
2	0.9 MI ESE	11/15/2011	9.9	1.3
3	0.9 MI SE	2/15/2011	10.8	4.7
3	0.9 MI SE	5/15/2011	10.1	1.7
3	0.9 MI SE	8/15/2011	9.1	1.2
3	0.9 MI SE	11/15/2011	9.2	3.4
4	1.1 MI SSE	2/15/2011	10.6	0.8
4	1.1 MI SSE	5/15/2011	10.5	1
4	1.1 MI SSE	8/15/2011	10	1.8
4	1.1 MI SSE	11/15/2011	10.4	1.7
5	1.1 MI S	2/15/2011	9.8	1.5
5	1.1 MI S	5/15/2011	10.7	1.8
5	1.1 MI S	8/15/2011	9.7	2.6
5	1.1 MI S	11/15/2011	9.9	1.9
6	1.1 MI SSW	2/15/2011	9.4	1.2
6	1.1 MI SSW	5/15/2011	9.2	1

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
6	1.1 MI SSW	8/15/2011	9.4	1.1
6	1.1 MI SSW	11/15/2011	8.7	1.5
7	1.1 MI SW	2/15/2011	9.9	1
7	1.1 MI SW	5/15/2011	10.3	1.3
7	1.1 MI SW	8/15/2011	10.2	2.5
7	1.1 MI SW	11/15/2011	10.5	1.3
8	1.2 MI W	2/15/2011	10	1.2
8	1.2 MI W	5/15/2011	8.7	0.9
8	1.2 MI W	8/15/2011	10.4	0.9
8	1.2 MI W	11/15/2011	8.4	1.4
9	1.0 MI WNW	2/15/2011	8.7	1.3
9	1.0 MI WNW	5/15/2011	8.9	0.8
9	1.0 MI WNW	8/15/2011	9.1	1.3
9	1.0 MI WNW	11/15/2011	9	1.1
10	0.8 MI NW	2/15/2011	9.9	0.8
10	0.8 MI NW	5/15/2011	8.6	0.9
10	0.8 MI NW	8/15/2011	9.5	1.2
10	0.8 MI NW	11/15/2011	8.8	1.3
11	0.9 MI NNW	2/15/2011	9.8	1.1
11	0.9 MI NNW	5/15/2011	10.3	2
11	0.9 MI NNW	8/15/2011	9.6	1.2
11	0.9 MI NNW	11/15/2011	10.2	1.4
12	1.1 MI N	2/15/2011	10.2	0.9
12	1.1 MI N	5/15/2011	9.4	1

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
12	1.1 MI N	8/15/2011	9.9	2.7
12	1.1 MI N	11/15/2011	8.8	1.4
13	1.2 MI NNE	2/15/2011	9.4	1.5
13	1.2 MI NNE	5/15/2011	8.2	0.9
13	1.2 MI NNE	8/15/2011	9.3	2
13	1.2 MI NNE	11/15/2011	8.4	1.2
14	0.5 MI NE	2/15/2011	10.9	0.8
14	0.5 MI NE	5/15/2011	10.9	0.8
14	0.5 MI NE	8/15/2011	10.1	0.9
14	0.5 MI NE	11/15/2011	11.3	1.2
15	0.9 MI ENE	2/15/2011	10.8	1.8
15	0.9 MI ENE	5/15/2011	10.4	1.8
15	0.9 MI ENE	8/15/2011	10.1	0.8
15	0.9 MI ENE	11/15/2011	10.1	1.2
16	1.0 MI WSW	2/15/2011	8.7	1.3
16	1.0 MI WSW	5/15/2011	8.8	1.4
16	1.0 MI WSW	8/15/2011	9.1	2
16	1.0 MI WSW	11/15/2011	8.7	2
17	1.4 MI ESE	2/15/2011	12.5	4
17	1.4 MI ESE	5/15/2011	9.6	3.1
17	1.4 MI ESE	8/15/2011	10.4	3.3
17	1.4 MI ESE	11/15/2011	11.5	1.9
18	1.7 MI SE	2/15/2011	11.4	1.2
18	1.7 MI SE	5/15/2011	10	1

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
18	1.7 MI SE	8/15/2011	12.1	0.9
18	1.7 MI SE	11/15/2011	9.8	2
20	2.1 MI S	2/15/2011	11.6	1.5
20	2.1 MI S	5/15/2011	9.4	1.4
20	2.1 MI S	8/15/2011	10.8	1
20	2.1 MI S	11/15/2011	9.1	1.1
21	2.9 MI SSW	2/15/2011	12.1	1.1
21	2.9 MI SSW	5/15/2011	11.6	2.3
21	2.9 MI SSW	8/15/2011	12.7	1.3
21	2.9 MI SSW	11/15/2011	11.8	1.3
22	5.3 MI SW	2/15/2011	9.4	1.1
22	5.3 MI SW	5/15/2011	9.3	2.1
22	5.3 MI SW	8/15/2011	9.8	1.4
22	5.3 MI SW	11/15/2011	9.6	1.1
23	4.6 MI WSW	2/15/2011	7.7	2
23	4.6 MI WSW	5/15/2011	7.9	1.5
23	4.6 MI WSW	8/15/2011	7.3	2.2
23	4.6 MI WSW	11/15/2011	8.6	1.3
24	3.0 MI W	2/15/2011	10.4	1.8
24	3.0 MI W	5/15/2011	10	1.6
24	3.0 MI W	8/15/2011	10.4	1.8
24	3.0 MI W	11/15/2011	10.3	1.4
25	8.6 MI WNW	2/15/2011	10.3	0.9
25	8.6 MI WNW	5/15/2011	9	1.2

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
25	8.6 MI WNW	8/15/2011	11.1	0.8
25	8.6 MI WNW	11/15/2011	9.1	1.1
26	5.9 MI NW	2/15/2011	12.7	1.4
26	5.9 MI NW	5/15/2011	10.8	1.3
26	5.9 MI NW	8/15/2011	12.2	2.3
26	5.9 MI NW	11/15/2011	11.2	1.4
27	5.1 MI NNW	2/15/2011	9.8	1.7
27	5.1 MI NNW	5/15/2011	8.1	0.8
27	5.1 MI NNW	8/15/2011	9.6	1.1
27	5.1 MI NNW	11/15/2011	8.2	1.5
28	4.2 MI NW	2/15/2011	10.4	1.3
28	4.2 MI NW	5/15/2011	9	1.6
28	4.2 MI NW	8/15/2011	10.9	1.2
28	4.2 MI NW	11/15/2011	9.7	1.2
29	2.6 MI SSW	2/15/2011	9.4	1.6
29	2.6 MI SSW	5/15/2011	8.5	1
29	2.6 MI SSW	8/15/2011	9.3	2.1
29	2.6 MI SSW	11/15/2011	9.1	1.6
30	2.0 MI NE	2/15/2011	12.8	0.8
30	2.0 MI NE	5/15/2011	9.9	1.3
30	2.0 MI NE	8/15/2011	11.5	1.7
30	2.0 MI NE	11/15/2011	10.2	1.4
31	2.5 MI ENE	2/15/2011	10.3	1.2
31	2.5 MI ENE	5/15/2011	9.9	1.9

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
31	2.5 MI ENE	8/15/2011	9.9	0.8
31	2.5 MI ENE	11/15/2011	10.6	2
32	5.8 MI ENE	2/15/2011	12.1	1.2
32	5.8 MI ENE	5/15/2011	11.1	1.4
32	5.8 MI ENE	8/15/2011	11.8	1.1
32	5.8 MI ENE	11/15/2011	10.9	2.2
33	4.1 MI E	2/15/2011	9.8	1.2
33	4.1 MI E	5/15/2011	8.4	1.4
33	4.1 MI E	8/15/2011	8.9	1.5
33	4.1 MI E	11/15/2011	8	1.1
34	5.4 MI E	2/15/2011	9.4	1.2
34	5.4 MI E	5/15/2011	8.8	1.7
34	5.4 MI E	8/15/2011	9.6	2
34	5.4 MI E	11/15/2011	9	1.2
35	7.3 MI SSE	2/15/2011	8.4	1.3
35	7.3 MI SSE	5/15/2011	8.1	1.2
35	7.3 MI SSE	8/15/2011	7.8	1.8
35	7.3 MI SSE	11/15/2011	8.2	2
36	8.9 MI NE	2/15/2011	10.3	1.3
36	8.9 MI NE	5/15/2011	9.1	0.9
36	8.9 MI NE	8/15/2011	9.8	1.7
36	8.9 MI NE	11/15/2011	9.7	2.4
37	5.5 MI NW	2/15/2011	8.9	0.9
37	5.5 MI NW	5/15/2011	7.5	0.8

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
37	5.5 MI NW	8/15/2011	8	1.1
37	5.5 MI NW	11/15/2011	7.7	1.5
38	11.0 MI W	2/15/2011	10.8	0.8
38	11.0 MI W	5/15/2011	9.3	0.8
38	11.0 MI W	8/15/2011	9	0.8
38	11.0 MI W	11/15/2011	9	1.2
39	5.3 MI SW	2/15/2011	11.9	1.3
39	5.3 MI SW	5/15/2011	13	2.5
39	5.3 MI SW	8/15/2011	11.4	1
39	5.3 MI SW	11/15/2011	12.5	1.7
40	6.9 MI WSW	2/15/2011	11.6	0.9
40	6.9 MI WSW	5/15/2011	11.6	1.1
40	6.9 MI WSW	8/15/2011	11	1.5
40	6.9 MI WSW	11/15/2011	11.9	1.4
75	4.7 MI S	2/15/2011	10.7	1.2
75	4.7 MI S	5/15/2011	9.3	1.7
75	4.7 MI S	8/15/2011	10.7	0.9
75	4.7 MI S	11/15/2011	9.6	2.4
76	4.8 MI SSW	2/15/2011	13	1
76	4.8 MI SSW	5/15/2011	10.5	0.9
76	4.8 MI SSW	8/15/2011	12.8	1.6
76	4.8 MI SSW	11/15/2011	11	1.9
77	5.4 MI S	2/15/2011	10.2	0.9
77	5.4 MI S	5/15/2011	7.5	1.2

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
77	5.4 MI S	8/15/2011	9.4	1.1
77	5.4 MI S	11/15/2011	7.7	1.4
78	9.9 MI NNE	2/15/2011	9.3	1.4
78	9.9 MI NNE	5/15/2011	8.6	0.9
78	9.9 MI NNE	8/15/2011	9.4	1.7
78	9.9 MI NNE	11/15/2011	9.8	1.2
79	9.5 MI N	2/15/2011	12.3	1.3
79	9.5 MI N	5/15/2011	9.5	1.7
79	9.5 MI N	8/15/2011	11.4	1
79	9.5 MI N	11/15/2011	10	1.7
81	9.9 MI WNW - CONTROL	2/15/2011	11.6	1.7
81	9.9 MI WNW - CONTROL	5/15/2011	9.1	1
81	9.9 MI WNW - CONTROL	8/15/2011	11.8	1.9
81	9.9 MI WNW - CONTROL	11/15/2011	10.7	2.6

BNP Radiological ISFSI TLD Report

Dose: mR/std. qtr.

TLD	*TLD Location Description*	*Sample Date*	*Dose*	*2 Sigma Error*
82	0.17 MI NNE - @ SW CORNER OF ISFSI	2/15/2011	27.1	0.9
82	0.17 MI NNE - @ SW CORNER OF ISFSI	5/15/2011	24.9	2.5
82	0.17 MI NNE - @ SW CORNER OF ISFSI	8/15/2011	31.4	4
82	0.17 MI NNE - @ SW CORNER OF ISFSI	11/15/2011	25.8	2.8
83	0.27 MI NE - @ NW CORNER OF ISFSI	2/15/2011	22.8	3.1
83	0.27 MI NE - @ NW CORNER OF ISFSI	5/15/2011	23.6	0.9
83	0.27 MI NE - @ NW CORNER OF ISFSI	8/15/2011	24.6	1.9
83	0.27 MI NE - @ NW CORNER OF ISFSI	11/15/2011	24.7	3.1
84	0.27 MI NE - @ NE CORNER OF ISFSI	2/15/2011	16.7	2.6
84	0.27 MI NE - @ NE CORNER OF ISFSI	5/15/2011	17.8	4.1
84	0.27 MI NE - @ NE CORNER OF ISFSI	8/15/2011	18.5	3.3
84	0.27 MI NE - @ NE CORNER OF ISFSI	11/15/2011	18	2
85	0.09 MI ENE - @ SE CORNER OF ISFSI	2/15/2011	48.1	2.6
85	0.09 MI ENE - @ SE CORNER OF ISFSI	5/15/2011	48.9	7.6
85	0.09 MI ENE - @ SE CORNER OF ISFSI	8/15/2011	53.8	12.1
85	0.09 MI ENE - @ SE CORNER OF ISFSI	11/15/2011	51.7	1.2

2011 BSEP
Radiological Environmental Monitoring Analysis Report

Comments

- Efficiency values are not included for AC samples requiring radioiodine analysis (I-131), because gamma software does not report these values.
- The Less than LLD (<LLD) represents that no activity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.
- Tritium samples that exhibit activity will not indicate LLD values for the following samples:
  - Groundwater samples
  - Surface Water samples (494 – 499 and 604 - 610)

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
200	1.0 MI WSW - VISITORS CENTER	1/3/2011	273.6	1.44E-02	2.91E-03	2.99E-03
200	1.0 MI WSW - VISITORS CENTER	1/10/2011	260.2	2.75E-02	3.89E-03	3.58E-03
200	1.0 MI WSW - VISITORS CENTER	1/17/2011	260.1	1.85E-02	3.46E-03	3.69E-03
200	1.0 MI WSW - VISITORS CENTER	1/24/2011	266.1	2.52E-02	3.64E-03	3.28E-03
200	1.0 MI WSW - VISITORS CENTER	1/31/2011	262.7	2.08E-02	3.50E-03	3.47E-03
200	1.0 MI WSW - VISITORS CENTER	2/7/2011	263.2	2.10E-02	3.57E-03	3.65E-03
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	260.4	1.93E-02	3.48E-03	3.61E-03
200	1.0 MI WSW - VISITORS CENTER	2/21/2011	263.9	1.41E-02	3.09E-03	3.42E-03
200	1.0 MI WSW - VISITORS CENTER	2/28/2011	265	1.63E-02	2.98E-03	2.77E-03
200	1.0 MI WSW - VISITORS CENTER	3/7/2011	262.7	1.31E-02	2.94E-03	3.18E-03
200	1.0 MI WSW - VISITORS CENTER	3/14/2011	260.1	1.42E-02	3.23E-03	3.72E-03
200	1.0 MI WSW - VISITORS CENTER	3/21/2011	260.3	2.02E-02	3.32E-03	3.02E-03
200	1.0 MI WSW - VISITORS CENTER	3/28/2011	263.4	3.33E-02	4.07E-03	3.35E-03
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	2.82E-02	3.84E-03	3.32E-03
200	1.0 MI WSW - VISITORS CENTER	4/11/2011	260.6	2.10E-02	3.45E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	4/18/2011	261.9	1.42E-02	3.16E-03	3.56E-03
200	1.0 MI WSW - VISITORS CENTER	4/25/2011	282.9	2.13E-02	3.31E-03	3.09E-03
200	1.0 MI WSW - VISITORS CENTER	5/2/2011	284.5	1.25E-02	2.81E-03	3.12E-03
200	1.0 MI WSW - VISITORS CENTER	5/9/2011	282.1	1.77E-02	3.17E-03	3.23E-03
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	282.5	1.61E-02	3.09E-03	3.27E-03
200	1.0 MI WSW - VISITORS CENTER	5/23/2011	282.3	2.00E-02	3.28E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	5/30/2011	285.5	1.93E-02	3.29E-03	3.36E-03
200	1.0 MI WSW - VISITORS CENTER	6/6/2011	286.8	1.79E-02	3.11E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	6/13/2011	287.1	2.28E-02	3.37E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	6/20/2011	283.7	1.98E-02	3.08E-03	2.68E-03
200	1.0 MI WSW - VISITORS CENTER	6/27/2011	286.3	1.66E-02	3.02E-03	3.05E-03
200	1.0 MI WSW - VISITORS CENTER	7/4/2011	288.3	1.71E-02	3.06E-03	3.11E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
200	1.0 MI WSW - VISITORS CENTER	7/11/2011	284.3	1.31E-02	2.93E-03	3.33E-03
200	1.0 MI WSW - VISITORS CENTER	7/18/2011	285.2	1.89E-02	3.32E-03	3.48E-03
200	1.0 MI WSW - VISITORS CENTER	7/25/2011	285.5	2.05E-02	3.15E-03	2.78E-03
200	1.0 MI WSW - VISITORS CENTER	8/1/2011	287.5	1.16E-02	2.84E-03	3.34E-03
200	1.0 MI WSW - VISITORS CENTER	8/8/2011	290.3	2.20E-02	3.29E-03	3.01E-03
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	288.4	2.38E-02	3.41E-03	3.08E-03
200	1.0 MI WSW - VISITORS CENTER	8/22/2011	288.7	1.84E-02	3.20E-03	3.28E-03
200	1.0 MI WSW - VISITORS CENTER	8/29/2011	288.1	1.97E-02	3.11E-03	2.82E-03
200	1.0 MI WSW - VISITORS CENTER	9/5/2011	287.4	2.30E-02	3.33E-03	2.96E-03
200	1.0 MI WSW - VISITORS CENTER	9/12/2011	289.5	2.06E-02	3.32E-03	3.32E-03
200	1.0 MI WSW - VISITORS CENTER	9/19/2011	286.2	2.18E-02	3.45E-03	3.45E-03
200	1.0 MI WSW - VISITORS CENTER	9/26/2011	286.9	6.09E-03	2.46E-03	3.27E-03
200	1.0 MI WSW - VISITORS CENTER	10/3/2011	285.1	1.27E-02	2.90E-03	3.32E-03
200	1.0 MI WSW - VISITORS CENTER	10/10/2011	281.5	2.29E-02	3.58E-03	3.60E-03
200	1.0 MI WSW - VISITORS CENTER	10/17/2011	280.5	2.03E-02	3.37E-03	3.40E-03
200	1.0 MI WSW - VISITORS CENTER	10/24/2011	280	2.05E-02	3.22E-03	2.93E-03
200	1.0 MI WSW - VISITORS CENTER	10/31/2011	279	2.97E-02	3.69E-03	2.91E-03
200	1.0 MI WSW - VISITORS CENTER	11/7/2011	279.4	2.06E-02	3.28E-03	3.07E-03
200	1.0 MI WSW - VISITORS CENTER	11/14/2011	279.1	2.25E-02	3.42E-03	3.18E-03
200	1.0 MI WSW - VISITORS CENTER	11/21/2011	277.7	1.42E-02	2.97E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	11/28/2011	278.7	1.85E-02	3.25E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	12/5/2011	275.6	2.03E-02	3.34E-03	3.25E-03
200	1.0 MI WSW - VISITORS CENTER	12/12/2011	276.6	1.94E-02	3.25E-03	3.16E-03
200	1.0 MI WSW - VISITORS CENTER	12/19/2011	276.1	3.49E-02	3.97E-03	3.00E-03
200	1.0 MI WSW - VISITORS CENTER	12/27/2011	316	1.76E-02	2.89E-03	2.79E-03
201	0.5 MI NE - PMAC	1/3/2011	249.7	2.64E-02	3.79E-03	3.28E-03
201	0.5 MI NE - PMAC	1/10/2011	285.3	2.88E-02	3.72E-03	3.27E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
201	0.5 MI NE - PMAC	1/17/2011	272.1	2.08E-02	3.48E-03	3.53E-03
201	0.5 MI NE - PMAC	1/24/2011	278.9	1.97E-02	3.25E-03	3.13E-03
201	0.5 MI NE - PMAC	1/31/2011	275.1	2.12E-02	3.41E-03	3.31E-03
201	0.5 MI NE - PMAC	2/7/2011	276.3	1.83E-02	3.31E-03	3.47E-03
201	0.5 MI NE - PMAC	2/14/2011	277.3	2.04E-02	3.39E-03	3.39E-03
201	0.5 MI NE - PMAC	2/21/2011	279.8	1.50E-02	3.02E-03	3.23E-03
201	0.5 MI NE - PMAC	2/28/2011	281.7	1.70E-02	2.90E-03	2.61E-03
201	0.5 MI NE - PMAC	3/7/2011	279.8	1.49E-02	2.92E-03	2.99E-03
201	0.5 MI NE - PMAC	3/14/2011	278.5	1.55E-02	3.15E-03	3.47E-03
201	0.5 MI NE - PMAC	3/21/2011	280.9	2.06E-02	3.18E-03	2.80E-03
201	0.5 MI NE - PMAC	3/28/2011	285	4.40E-02	4.33E-03	3.09E-03
201	0.5 MI NE - PMAC	4/4/2011	279.9	3.47E-02	3.96E-03	3.07E-03
201	0.5 MI NE - PMAC	4/11/2011	281.9	2.09E-02	3.27E-03	3.05E-03
201	0.5 MI NE - PMAC	4/18/2011	283	1.24E-02	2.88E-03	3.29E-03
201	0.5 MI NE - PMAC	4/25/2011	286.1	1.85E-02	3.13E-03	3.05E-03
201	0.5 MI NE - PMAC	5/2/2011	288.6	1.07E-02	2.68E-03	3.08E-03
201	0.5 MI NE - PMAC	5/9/2011	285.7	1.90E-02	3.21E-03	3.19E-03
201	0.5 MI NE - PMAC	5/16/2011	286	1.68E-02	3.10E-03	3.23E-03
201	0.5 MI NE - PMAC	5/23/2011	285.8	1.91E-02	3.20E-03	3.16E-03
201	0.5 MI NE - PMAC	5/30/2011	289.9	2.10E-02	3.34E-03	3.31E-03
201	0.5 MI NE - PMAC	6/6/2011	290.3	1.92E-02	3.16E-03	3.06E-03
201	0.5 MI NE - PMAC	6/13/2011	290.1	2.12E-02	3.26E-03	3.06E-03
201	0.5 MI NE - PMAC	6/20/2011	289.2	1.79E-02	2.94E-03	2.63E-03
201	0.5 MI NE - PMAC	6/27/2011	291	1.67E-02	2.99E-03	3.00E-03
201	0.5 MI NE - PMAC	7/4/2011	293.9	1.85E-02	3.10E-03	3.05E-03
201	0.5 MI NE - PMAC	7/11/2011	287.3	1.26E-02	2.88E-03	3.29E-03
201	0.5 MI NE - PMAC	7/18/2011	289.5	2.08E-02	3.38E-03	3.43E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
201	0.5 MI NE - PMAC	7/25/2011	290.4	1.84E-02	3.00E-03	2.74E-03
201	0.5 MI NE - PMAC	8/1/2011	285.8	1.18E-02	2.87E-03	3.36E-03
201	0.5 MI NE - PMAC	8/8/2011	294.8	2.16E-02	3.23E-03	2.96E-03
201	0.5 MI NE - PMAC	8/15/2011	304.1	2.99E-02	3.58E-03	2.92E-03
201	0.5 MI NE - PMAC	8/22/2011	282.1	1.93E-02	3.30E-03	3.35E-03
201	0.5 MI NE - PMAC	8/29/2011	290.8	2.02E-02	3.12E-03	2.79E-03
201	0.5 MI NE - PMAC	9/5/2011	294.2	2.54E-02	3.40E-03	2.89E-03
201	0.5 MI NE - PMAC	9/12/2011	299.2	1.56E-02	2.99E-03	3.21E-03
201	0.5 MI NE - PMAC	9/19/2011	298.9	1.80E-02	3.15E-03	3.30E-03
201	0.5 MI NE - PMAC	9/26/2011	299.5	6.49E-03	2.40E-03	3.14E-03
201	0.5 MI NE - PMAC	10/3/2011	297.3	1.53E-02	2.97E-03	3.18E-03
201	0.5 MI NE - PMAC	10/10/2011	296	2.16E-02	3.39E-03	3.42E-03
201	0.5 MI NE - PMAC	10/17/2011	297.9	2.29E-02	3.37E-03	3.20E-03
201	0.5 MI NE - PMAC	10/24/2011	293.1	2.20E-02	3.20E-03	2.80E-03
201	0.5 MI NE - PMAC	10/31/2011	292.8	3.02E-02	3.60E-03	2.77E-03
201	0.5 MI NE - PMAC	11/7/2011	293.2	2.15E-02	3.22E-03	2.93E-03
201	0.5 MI NE - PMAC	11/14/2011	292.5	2.20E-02	3.29E-03	3.04E-03
201	0.5 MI NE - PMAC	11/21/2011	290.5	1.62E-02	2.99E-03	3.06E-03
201	0.5 MI NE - PMAC	11/28/2011	291.1	1.87E-02	3.16E-03	3.15E-03
201	0.5 MI NE - PMAC	12/5/2011	287.6	2.04E-02	3.25E-03	3.12E-03
201	0.5 MI NE - PMAC	12/12/2011	289	1.76E-02	3.06E-03	3.02E-03
201	0.5 MI NE - PMAC	12/19/2011	288	3.25E-02	3.76E-03	2.87E-03
201	0.5 MI NE - PMAC	12/27/2011	326.4	1.89E-02	2.89E-03	2.70E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/3/2011	276.5	2.31E-02	3.39E-03	2.96E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/10/2011	269.8	2.79E-02	3.82E-03	3.45E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/17/2011	269.2	2.53E-02	3.73E-03	3.57E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/24/2011	273.3	2.25E-02	3.45E-03	3.20E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/31/2011	270.7	2.06E-02	3.42E-03	3.36E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/7/2011	273.7	1.77E-02	3.30E-03	3.51E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/14/2011	270.7	2.10E-02	3.47E-03	3.47E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/21/2011	273.4	1.45E-02	3.04E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/28/2011	276.3	1.83E-02	3.02E-03	2.66E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/7/2011	272.9	1.66E-02	3.07E-03	3.06E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/14/2011	272.3	1.61E-02	3.23E-03	3.55E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/21/2011	272.9	2.57E-02	3.51E-03	2.88E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/28/2011	277.2	4.65E-02	4.50E-03	3.18E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	2.83E-02	3.73E-03	3.15E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/11/2011	274.8	2.02E-02	3.29E-03	3.12E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	1.55E-02	3.12E-03	3.38E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/25/2011	277.9	2.20E-02	3.38E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/2/2011	278.9	1.49E-02	3.00E-03	3.19E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/9/2011	277	2.02E-02	3.34E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/16/2011	277.1	1.70E-02	3.18E-03	3.34E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/23/2011	276.6	2.12E-02	3.39E-03	3.27E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/30/2011	280	2.43E-02	3.59E-03	3.43E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/6/2011	280.5	1.91E-02	3.23E-03	3.17E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/13/2011	276	2.02E-02	3.32E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/20/2011	277.7	2.02E-02	3.15E-03	2.74E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/27/2011	281.2	2.08E-02	3.29E-03	3.11E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/4/2011	280.5	2.17E-02	3.37E-03	3.20E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/11/2011	280.4	1.47E-02	3.06E-03	3.37E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/18/2011	279.5	1.76E-02	3.30E-03	3.55E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/25/2011	279.9	1.98E-02	3.15E-03	2.84E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/1/2011	281	1.23E-02	2.93E-03	3.42E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/8/2011	291.8	2.36E-02	3.36E-03	2.99E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	292.1	2.85E-02	3.61E-03	3.04E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/22/2011	291.4	2.31E-02	3.42E-03	3.25E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/29/2011	291	2.17E-02	3.19E-03	2.79E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/5/2011	289.3	2.26E-02	3.30E-03	2.94E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/12/2011	292.1	2.03E-02	3.29E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/19/2011	289.3	1.91E-02	3.29E-03	3.41E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/26/2011	290.5	6.19E-03	2.44E-03	3.23E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/3/2011	287.7	1.36E-02	2.94E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/10/2011	285	1.87E-02	3.33E-03	3.56E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/17/2011	287.5	2.03E-02	3.32E-03	3.31E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/24/2011	285	1.92E-02	3.11E-03	2.87E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/31/2011	284.6	3.38E-02	3.83E-03	2.85E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/7/2011	285.6	1.95E-02	3.17E-03	3.01E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/14/2011	284	2.25E-02	3.38E-03	3.13E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/21/2011	283.4	1.68E-02	3.07E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/28/2011	284	1.70E-02	3.12E-03	3.23E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/5/2011	281.5	1.91E-02	3.23E-03	3.18E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/12/2011	282.5	1.98E-02	3.23E-03	3.09E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/19/2011	281.9	3.34E-02	3.85E-03	2.93E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/27/2011	322.5	1.65E-02	2.79E-03	2.73E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/3/2011	276.4	1.81E-02	3.11E-03	2.96E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/10/2011	269.7	2.46E-02	3.66E-03	3.46E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/17/2011	268.2	2.13E-02	3.54E-03	3.58E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/24/2011	275.6	2.26E-02	3.43E-03	3.17E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/31/2011	272.2	1.83E-02	3.28E-03	3.35E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/7/2011	272.2	1.87E-02	3.37E-03	3.53E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2011	270.4	1.64E-02	3.23E-03	3.47E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/21/2011	274.4	1.58E-02	3.11E-03	3.29E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/28/2011	274.6	1.86E-02	3.05E-03	2.68E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/7/2011	251.2	1.88E-02	3.38E-03	3.32E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/14/2011	270.5	1.55E-02	3.21E-03	3.57E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/21/2011	285	4.23E-03	2.07E-03	2.76E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/28/2011	287.1	3.56E-02	3.96E-03	3.07E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	2.49E-02	3.47E-03	3.04E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	2.79E-02	3.61E-03	3.02E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/18/2011	287.2	1.39E-02	2.94E-03	3.25E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/25/2011	290.8	2.28E-02	3.32E-03	3.01E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/2/2011	293.5	1.16E-02	2.69E-03	3.03E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/9/2011	290.6	1.81E-02	3.12E-03	3.13E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	289.7	1.55E-02	3.00E-03	3.19E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/23/2011	290.4	1.76E-02	3.09E-03	3.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/30/2011	293.9	2.17E-02	3.35E-03	3.27E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/6/2011	295.6	1.74E-02	3.02E-03	3.01E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/13/2011	296	2.10E-02	3.21E-03	3.00E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/20/2011	292.5	1.95E-02	3.01E-03	2.60E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/27/2011	295	2.04E-02	3.17E-03	2.96E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/4/2011	294.4	2.18E-02	3.27E-03	3.04E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/11/2011	294.7	1.14E-02	2.76E-03	3.21E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/18/2011	293.3	1.96E-02	3.28E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/25/2011	293.7	2.20E-02	3.17E-03	2.71E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/1/2011	294	1.09E-02	2.75E-03	3.26E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/8/2011	294.5	2.55E-02	3.43E-03	2.97E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	291.4	2.65E-02	3.52E-03	3.05E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/22/2011	292.9	1.99E-02	3.25E-03	3.23E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/29/2011	292	1.79E-02	2.98E-03	2.78E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/5/2011	292.1	2.62E-02	3.46E-03	2.91E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/12/2011	292.6	1.78E-02	3.16E-03	3.28E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/19/2011	292.4	2.02E-02	3.32E-03	3.38E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/26/2011	289.7	3.14E-03	2.22E-03	3.24E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/3/2011	289.2	1.67E-02	3.10E-03	3.27E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/10/2011	286.2	2.14E-02	3.46E-03	3.54E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/17/2011	288.7	2.34E-02	3.46E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/24/2011	285.5	1.99E-02	3.15E-03	2.87E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/31/2011	285.5	2.92E-02	3.61E-03	2.84E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/7/2011	285.6	1.88E-02	3.13E-03	3.01E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2011	286.1	2.35E-02	3.41E-03	3.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/21/2011	283.4	1.72E-02	3.10E-03	3.14E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/28/2011	284.7	1.90E-02	3.23E-03	3.22E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/5/2011	281.8	1.83E-02	3.18E-03	3.18E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/12/2011	283.2	1.83E-02	3.14E-03	3.09E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/19/2011	282.5	2.89E-02	3.64E-03	2.93E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/27/2011	323.6	1.86E-02	2.90E-03	2.72E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/3/2011	262	2.30E-02	3.50E-03	3.13E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/10/2011	260.9	2.83E-02	3.92E-03	3.57E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/17/2011	258.6	2.05E-02	3.59E-03	3.71E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/24/2011	260.7	2.27E-02	3.56E-03	3.35E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/31/2011	258.3	1.97E-02	3.48E-03	3.53E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/7/2011	259.3	1.48E-02	3.27E-03	3.70E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	255.4	1.65E-02	3.37E-03	3.68E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/21/2011	317	1.56E-02	2.80E-03	2.85E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/28/2011	263	2.30E-02	3.39E-03	2.79E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/7/2011	273.3	1.70E-02	3.09E-03	3.06E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/14/2011	267.3	1.16E-02	3.02E-03	3.62E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/21/2011	271	1.88E-02	3.15E-03	2.90E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/28/2011	271.3	3.51E-02	4.08E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2011	264.5	3.04E-02	3.90E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	2.10E-02	3.39E-03	3.20E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/18/2011	269.1	1.98E-02	3.41E-03	3.46E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/25/2011	270.4	2.31E-02	3.50E-03	3.23E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/2/2011	271.1	1.46E-02	3.04E-03	3.28E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/9/2011	269.4	1.81E-02	3.29E-03	3.38E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2011	270.8	2.16E-02	3.49E-03	3.42E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/23/2011	269.1	1.42E-02	3.06E-03	3.36E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/30/2011	274.2	2.34E-02	3.60E-03	3.50E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/6/2011	271.2	2.25E-02	3.48E-03	3.28E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/13/2011	273.2	2.32E-02	3.50E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/27/2011	270.3	1.96E-02	3.31E-03	3.23E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/4/2011	275.8	1.65E-02	3.13E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/11/2011	271.9	1.46E-02	3.12E-03	3.48E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/18/2011	273.8	1.81E-02	3.37E-03	3.63E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/25/2011	274.5	2.51E-02	3.48E-03	2.90E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/1/2011	274.5	1.26E-02	3.01E-03	3.50E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	286.4	2.93E-02	3.69E-03	3.10E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/22/2011	286.1	2.17E-02	3.39E-03	3.31E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/29/2011	283.3	1.93E-02	3.12E-03	2.86E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/5/2011	284.4	2.38E-02	3.40E-03	2.99E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/12/2011	283.3	1.82E-02	3.25E-03	3.39E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/19/2011	283.7	2.11E-02	3.43E-03	3.48E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/26/2011	282.9	7.22E-03	2.56E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/3/2011	280.7	1.55E-02	3.10E-03	3.37E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/10/2011	279	1.91E-02	3.40E-03	3.63E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/17/2011	281	2.44E-02	3.58E-03	3.39E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/24/2011	279.9	2.01E-02	3.20E-03	2.93E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/31/2011	277.8	2.92E-02	3.67E-03	2.92E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/7/2011	277.6	1.82E-02	3.16E-03	3.09E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2011	277.1	2.43E-02	3.53E-03	3.21E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/21/2011	277.4	1.57E-02	3.06E-03	3.20E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/28/2011	278.7	1.85E-02	3.24E-03	3.29E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/5/2011	275.2	2.40E-02	3.53E-03	3.26E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/12/2011	276	2.01E-02	3.29E-03	3.17E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/19/2011	274.6	3.58E-02	4.02E-03	3.01E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/27/2011	315.8	1.86E-02	2.95E-03	2.79E-03
205	0.6 MI SSE - SPOIL POND	1/3/2011	276.5	2.25E-02	3.35E-03	2.96E-03
205	0.6 MI SSE - SPOIL POND	1/10/2011	268.2	3.57E-02	4.19E-03	3.48E-03
205	0.6 MI SSE - SPOIL POND	1/17/2011	266.6	2.44E-02	3.71E-03	3.60E-03
205	0.6 MI SSE - SPOIL POND	1/24/2011	273.7	2.47E-02	3.56E-03	3.19E-03
205	0.6 MI SSE - SPOIL POND	1/31/2011	272.8	1.92E-02	3.32E-03	3.34E-03
205	0.6 MI SSE - SPOIL POND	2/7/2011	274.3	1.63E-02	3.22E-03	3.50E-03
205	0.6 MI SSE - SPOIL POND	2/14/2011	270.5	2.13E-02	3.49E-03	3.47E-03
205	0.6 MI SSE - SPOIL POND	2/21/2011	275.4	1.34E-02	2.96E-03	3.28E-03
205	0.6 MI SSE - SPOIL POND	2/28/2011	277.4	1.78E-02	2.99E-03	2.65E-03
205	0.6 MI SSE - SPOIL POND	3/7/2011	272.9	1.60E-02	3.03E-03	3.06E-03
205	0.6 MI SSE - SPOIL POND	3/14/2011	273.1	1.65E-02	3.25E-03	3.54E-03
205	0.6 MI SSE - SPOIL POND	3/21/2011	274.5	1.97E-02	3.18E-03	2.87E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
205	0.6 MI SSE - SPOIL POND	3/28/2011	278.4	3.66E-02	4.08E-03	3.17E-03
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	2.55E-02	3.58E-03	3.15E-03
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	2.29E-02	3.42E-03	3.10E-03
205	0.6 MI SSE - SPOIL POND	4/18/2011	277.5	1.49E-02	3.07E-03	3.36E-03
205	0.6 MI SSE - SPOIL POND	4/25/2011	280	1.79E-02	3.15E-03	3.12E-03
205	0.6 MI SSE - SPOIL POND	5/2/2011	280.4	1.29E-02	2.87E-03	3.17E-03
205	0.6 MI SSE - SPOIL POND	5/9/2011	279.1	1.98E-02	3.30E-03	3.26E-03
205	0.6 MI SSE - SPOIL POND	5/16/2011	278.9	1.51E-02	3.06E-03	3.32E-03
205	0.6 MI SSE - SPOIL POND	5/23/2011	278.7	1.85E-02	3.22E-03	3.24E-03
205	0.6 MI SSE - SPOIL POND	5/30/2011	282.1	1.85E-02	3.27E-03	3.40E-03
205	0.6 MI SSE - SPOIL POND	6/6/2011	282.4	2.17E-02	3.35E-03	3.15E-03
205	0.6 MI SSE - SPOIL POND	6/13/2011	283.7	1.95E-02	3.22E-03	3.13E-03
205	0.6 MI SSE - SPOIL POND	6/20/2011	279.7	2.17E-02	3.22E-03	2.72E-03
205	0.6 MI SSE - SPOIL POND	6/27/2011	282.6	1.88E-02	3.17E-03	3.09E-03
205	0.6 MI SSE - SPOIL POND	7/4/2011	282.3	1.78E-02	3.15E-03	3.18E-03
205	0.6 MI SSE - SPOIL POND	7/11/2011	281.8	1.28E-02	2.93E-03	3.36E-03
205	0.6 MI SSE - SPOIL POND	7/18/2011	280.4	1.98E-02	3.40E-03	3.54E-03
205	0.6 MI SSE - SPOIL POND	7/25/2011	281.3	2.23E-02	3.28E-03	2.83E-03
205	0.6 MI SSE - SPOIL POND	8/1/2011	282.8	1.19E-02	2.90E-03	3.39E-03
205	0.6 MI SSE - SPOIL POND	8/8/2011	294.5	2.17E-02	3.24E-03	2.97E-03
205	0.6 MI SSE - SPOIL POND	8/15/2011	286.6	2.93E-02	3.69E-03	3.10E-03
205	0.6 MI SSE - SPOIL POND	8/22/2011	286.7	2.03E-02	3.31E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	8/29/2011	286.3	1.87E-02	3.07E-03	2.83E-03
205	0.6 MI SSE - SPOIL POND	9/5/2011	284	2.55E-02	3.48E-03	3.00E-03
205	0.6 MI SSE - SPOIL POND	9/12/2011	287.4	2.00E-02	3.31E-03	3.34E-03
205	0.6 MI SSE - SPOIL POND	9/19/2011	282.8	2.12E-02	3.45E-03	3.49E-03
205	0.6 MI SSE - SPOIL POND	9/26/2011	285.3	6.82E-03	2.52E-03	3.29E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Activity	2 Sigma Error	LLD
205	0.6 MI SSE - SPOIL POND	10/3/2011	283.3	1.49E-02	3.05E-03	3.34E-03
205	0.6 MI SSE - SPOIL POND	10/10/2011	279.3	2.12E-02	3.51E-03	3.63E-03
205	0.6 MI SSE - SPOIL POND	10/17/2011	282.5	1.96E-02	3.32E-03	3.37E-03
205	0.6 MI SSE - SPOIL POND	10/24/2011	280.1	1.98E-02	3.18E-03	2.93E-03
205	0.6 MI SSE - SPOIL POND	10/31/2011	277.5	2.72E-02	3.58E-03	2.92E-03
205	0.6 MI SSE - SPOIL POND	11/7/2011	275.2	1.91E-02	3.23E-02	3.12E-03
205	0.6 MI SSE - SPOIL POND	11/14/2011	274	2.52E-02	3.60E-03	3.24E-03
205	0.6 MI SSE - SPOIL POND	11/21/2011	276.2	1.63E-02	3.10E-03	3.22E-03
205	0.6 MI SSE - SPOIL POND	11/28/2011	275.8	1.70E-02	3.18E-03	3.33E-03
205	0.6 MI SSE - SPOIL POND	12/5/2011	271	2.12E-02	3.42E-03	3.13E-03
205	0.6 MI SSE - SPOIL POND	12/12/2011	273	1.66E-02	3.12E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	12/19/2011	272.5	3.45E-02	3.98E-03	3.04E-03
205	0.6 MI SSE - SPOIL POND	12/27/2011	313.4	1.88E-02	2.97E-03	2.81E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	1/3/2011	276.2	2.32E-02	3.39E-03	2.97E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	1/10/2011	277.7	2.97E-02	3.83E-03	3.36E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	1/17/2011	272.7	2.20E-02	3.54E-03	3.52E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	1/24/2011	277.1	2.51E-02	3.55E-03	3.15E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	1/31/2011	271.2	2.31E-02	3.54E-03	3.36E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	2/7/2011	281.2	1.78E-02	3.24E-03	3.41E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	2/14/2011	277.6	1.97E-02	3.35E-03	3.38E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	2/21/2011	283	1.65E-02	3.08E-03	3.19E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	2/28/2011	282.4	1.93E-02	3.03E-03	2.60E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	3/7/2011	282.8	1.75E-02	3.05E-03	2.95E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	3/14/2011	279.8	1.47E-02	3.09E-03	3.46E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	3/21/2011	284.5	2.34E-02	3.31E-03	2.77E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	3/28/2011	283.4	3.71E-02	4.06E-03	3.11E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	4/4/2011	280.1	3.92E-02	4.15E-03	3.07E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	4/11/2011	285.3	2.55E-02	3.49E-03	3.01E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	4/18/2011	285.1	1.44E-02	2.99E-03	3.27E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	4/25/2011	288	2.03E-02	3.22E-03	3.03E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	5/2/2011	288.5	1.58E-02	2.98E-03	3.08E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	5/9/2011	286.9	1.95E-02	3.22E-03	3.17E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	5/16/2011	288.4	1.77E-02	3.13E-03	3.21E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	5/23/2011	288	2.12E-02	3.30E-03	3.14E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	5/30/2011	290.5	2.41E-02	3.49E-03	3.31E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	6/6/2011	286.1	2.06E-02	3.26E-03	3.11E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	6/13/2011	289.3	2.32E-02	3.37E-03	3.07E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	6/20/2011	289.6	2.06E-02	3.09E-03	2.63E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	6/27/2011	279.7	1.90E-02	3.21E-03	3.12E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	7/4/2011	281.4	2.05E-02	3.30E-03	3.19E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	7/11/2011	278.3	1.39E-02	3.03E-03	3.40E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	7/18/2011	280.9	2.05E-02	3.43E-03	3.54E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	7/25/2011	282.5	2.45E-02	3.38E-03	2.81E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	8/1/2011	280.3	1.40E-02	3.04E-03	3.42E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	8/8/2011	277.5	2.39E-02	3.49E-03	3.15E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	8/15/2011	278.1	2.96E-02	3.77E-03	3.20E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	8/22/2011	278.1	2.03E-02	3.38E-03	3.40E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	8/29/2011	273.1	1.87E-02	3.16E-03	2.97E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	9/5/2011	273.9	2.55E-02	3.57E-03	3.11E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	9/12/2011	272.1	2.02E-02	3.45E-03	3.53E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	9/19/2011	271.2	2.18E-02	3.58E-03	3.64E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	9/26/2011	270.2	8.47E-03	2.75E-03	3.48E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	10/3/2011	268.7	1.36E-02	3.09E-03	3.52E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	10/10/2011	265.4	1.92E-02	3.53E-03	3.82E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Beta

Sample Point		*Sample Date*	*Quantity*	*Activity*	*2 Sigma Error*	*LLD*
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	10/17/2011	268.1	2.19E-02	3.57E-03	3.55E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	10/24/2011	266.6	2.19E-02	3.40E-03	3.07E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	10/31/2011	265.1	3.15E-02	3.89E-03	3.06E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	11/7/2011	265.7	1.85E-02	3.27E-03	3.23E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	11/14/2011	264.5	2.23E-02	3.53E-03	3.36E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	11/21/2011	266.4	1.72E-02	3.23E-03	3.34E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	11/28/2011	266.2	1.86E-02	3.35E-03	3.45E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	12/5/2011	262.6	2.05E-02	3.46E-03	3.41E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	12/12/2011	264	1.88E-02	3.33E-03	3.31E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	12/19/2011	262.9	3.49E-02	4.09E-03	3.15E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (	12/27/2011	303.5	1.92E-02	3.06E-03	2.90E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
200	1.0 MI WSW - VISITORS CENTER	1/3/2011	273.6	<LLD	1.73E-02
200	1.0 MI WSW - VISITORS CENTER	1/10/2011	260.2	<LLD	2.96E-02
200	1.0 MI WSW - VISITORS CENTER	1/17/2011	260.1	<LLD	2.27E-02
200	1.0 MI WSW - VISITORS CENTER	1/24/2011	266.1	<LLD	2.13E-02
200	1.0 MI WSW - VISITORS CENTER	1/31/2011	262.7	<LLD	1.85E-02
200	1.0 MI WSW - VISITORS CENTER	2/7/2011	263.2	<LLD	2.09E-02
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	260.4	<LLD	2.44E-02
200	1.0 MI WSW - VISITORS CENTER	2/21/2011	263.9	<LLD	2.81E-02
200	1.0 MI WSW - VISITORS CENTER	2/28/2011	265.0	<LLD	2.26E-02
200	1.0 MI WSW - VISITORS CENTER	3/7/2011	262.7	<LLD	2.96E-02
200	1.0 MI WSW - VISITORS CENTER	3/14/2011	260.1	<LLD	2.36E-02
200	1.0 MI WSW - VISITORS CENTER	3/21/2011	260.3	<LLD	2.71E-02
200	1.0 MI WSW - VISITORS CENTER	3/28/2011	263.4	1.61E-01	
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259.0	1.26E-01	
200	1.0 MI WSW - VISITORS CENTER	4/11/2011	260.6	3.84E-02	
200	1.0 MI WSW - VISITORS CENTER	4/18/2011	261.9	<LLD	2.34E-02
200	1.0 MI WSW - VISITORS CENTER	4/25/2011	282.9	<LLD	2.28E-02
200	1.0 MI WSW - VISITORS CENTER	5/2/2011	284.5	<LLD	2.04E-02
200	1.0 MI WSW - VISITORS CENTER	5/9/2011	282.1	<LLD	1.80E-02
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	282.5	<LLD	2.62E-02
200	1.0 MI WSW - VISITORS CENTER	5/23/2011	282.3	<LLD	2.35E-02
200	1.0 MI WSW - VISITORS CENTER	5/30/2011	285.5	<LLD	1.96E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
200	1.0 MI WSW - VISITORS CENTER	6/6/2011	286.8	<LLD	1.90E-02
200	1.0 MI WSW - VISITORS CENTER	6/13/2011	287.1	<LLD	2.17E-02
200	1.0 MI WSW - VISITORS CENTER	6/20/2011	283.7	<LLD	1.87E-02
200	1.0 MI WSW - VISITORS CENTER	6/27/2011	286.3	<LLD	1.64E-02
200	1.0 MI WSW - VISITORS CENTER	7/4/2011	288.3	<LLD	2.72E-02
200	1.0 MI WSW - VISITORS CENTER	7/11/2011	284.3	<LLD	2.09E-02
200	1.0 MI WSW - VISITORS CENTER	7/18/2011	285.2	<LLD	2.17E-02
200	1.0 MI WSW - VISITORS CENTER	7/25/2011	285.5	<LLD	2.22E-02
200	1.0 MI WSW - VISITORS CENTER	8/1/2011	287.5	<LLD	2.45E-02
200	1.0 MI WSW - VISITORS CENTER	8/8/2011	290.3	<LLD	2.19E-02
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	288.4	<LLD	2.09E-02
200	1.0 MI WSW - VISITORS CENTER	8/22/2011	288.7	<LLD	2.34E-02
200	1.0 MI WSW - VISITORS CENTER	8/29/2011	288.1	<LLD	2.00E-02
200	1.0 MI WSW - VISITORS CENTER	9/5/2011	287.4	<LLD	2.03E-02
200	1.0 MI WSW - VISITORS CENTER	9/12/2011	289.5	<LLD	2.11E-02
200	1.0 MI WSW - VISITORS CENTER	9/19/2011	286.2	<LLD	2.11E-02
200	1.0 MI WSW - VISITORS CENTER	9/26/2011	286.9	<LLD	1.90E-02
200	1.0 MI WSW - VISITORS CENTER	10/3/2011	285.1	<LLD	2.14E-02
200	1.0 MI WSW - VISITORS CENTER	10/10/2011	281.5	<LLD	2.10E-02
200	1.0 MI WSW - VISITORS CENTER	10/17/2011	280.5	<LLD	2.06E-02
200	1.0 MI WSW - VISITORS CENTER	10/24/2011	280.0	<LLD	1.81E-02
200	1.0 MI WSW - VISITORS CENTER	10/31/2011	279.0	<LLD	2.11E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
200	1.0 MI WSW - VISITORS CENTER	11/7/2011	279.4	<LLD	1.99E-02
200	1.0 MI WSW - VISITORS CENTER	11/14/2011	279.1	<LLD	2.24E-02
200	1.0 MI WSW - VISITORS CENTER	11/21/2011	277.7	<LLD	2.25E-02
200	1.0 MI WSW - VISITORS CENTER	11/28/2011	278.7	<LLD	2.85E-02
200	1.0 MI WSW - VISITORS CENTER	12/5/2011	275.6	<LLD	1.93E-02
200	1.0 MI WSW - VISITORS CENTER	12/12/2011	276.6	<LLD	1.73E-02
200	1.0 MI WSW - VISITORS CENTER	12/19/2011	276.1	<LLD	1.72E-02
200	1.0 MI WSW - VISITORS CENTER	12/27/2011	316.0	<LLD	1.44E-02
201	0.5 MI NE - PMAC	1/3/2011	249.7	<LLD	2.14E-02
201	0.5 MI NE - PMAC	1/10/2011	285.3	<LLD	1.80E-02
201	0.5 MI NE - PMAC	1/17/2011	272.1	<LLD	2.51E-02
201	0.5 MI NE - PMAC	1/24/2011	278.9	<LLD	1.86E-02
201	0.5 MI NE - PMAC	1/31/2011	275.1	<LLD	2.42E-02
201	0.5 MI NE - PMAC	2/7/2011	276.3	<LLD	1.89E-02
201	0.5 MI NE - PMAC	2/14/2011	277.3	<LLD	1.91E-02
201	0.5 MI NE - PMAC	2/21/2011	279.8	<LLD	1.93E-02
201	0.5 MI NE - PMAC	2/28/2011	281.7	<LLD	1.59E-02
201	0.5 MI NE - PMAC	3/7/2011	279.8	<LLD	1.60E-02
201	0.5 MI NE - PMAC	3/14/2011	278.5	<LLD	2.02E-02
201	0.5 MI NE - PMAC	3/21/2011	280.9	<LLD	2.15E-02
201	0.5 MI NE - PMAC	3/28/2011	285.0	1.39E-01	
201	0.5 MI NE - PMAC	4/4/2011	279.9	1.05E-01	

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
201	0.5 MI NE - PMAC	4/11/2011	281.9	4.17E-02	
201	0.5 MI NE - PMAC	4/18/2011	283.0	<LLD	2.32E-02
201	0.5 MI NE - PMAC	4/25/2011	286.1	<LLD	1.81E-02
201	0.5 MI NE - PMAC	5/2/2011	288.6	<LLD	1.55E-02
201	0.5 MI NE - PMAC	5/9/2011	285.7	<LLD	1.98E-02
201	0.5 MI NE - PMAC	5/16/2011	286.0	<LLD	1.68E-02
201	0.5 MI NE - PMAC	5/23/2011	285.8	<LLD	2.00E-02
201	0.5 MI NE - PMAC	5/30/2011	289.9	<LLD	2.01E-02
201	0.5 MI NE - PMAC	6/6/2011	290.3	<LLD	1.83E-02
201	0.5 MI NE - PMAC	6/13/2011	290.1	<LLD	1.90E-02
201	0.5 MI NE - PMAC	6/20/2011	289.2	<LLD	1.75E-02
201	0.5 MI NE - PMAC	6/27/2011	291.0	<LLD	1.99E-02
201	0.5 MI NE - PMAC	7/4/2011	293.9	<LLD	2.41E-02
201	0.5 MI NE - PMAC	7/11/2011	287.3	<LLD	2.40E-02
201	0.5 MI NE - PMAC	7/18/2011	289.5	<LLD	2.19E-02
201	0.5 MI NE - PMAC	7/25/2011	290.4	<LLD	1.98E-02
201	0.5 MI NE - PMAC	8/1/2011	285.8	<LLD	1.85E-02
201	0.5 MI NE - PMAC	8/8/2011	294.8	<LLD	1.83E-02
201	0.5 MI NE - PMAC	8/15/2011	304.1	<LLD	2.16E-02
201	0.5 MI NE - PMAC	8/22/2011	282.1	<LLD	2.22E-02
201	0.5 MI NE - PMAC	8/29/2011	290.8	<LLD	2.02E-02
201	0.5 MI NE - PMAC	9/5/2011	294.2	<LLD	2.34E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
201	0.5 MI NE - PMAC	9/12/2011	299.2	<LLD	1.79E-02
201	0.5 MI NE - PMAC	9/19/2011	298.9	<LLD	1.88E-02
201	0.5 MI NE - PMAC	9/26/2011	299.5	<LLD	2.25E-02
201	0.5 MI NE - PMAC	10/3/2011	297.3	<LLD	2.33E-02
201	0.5 MI NE - PMAC	10/10/2011	296.0	<LLD	1.63E-02
201	0.5 MI NE - PMAC	10/17/2011	297.9	<LLD	1.74E-02
201	0.5 MI NE - PMAC	10/24/2011	293.1	<LLD	1.85E-02
201	0.5 MI NE - PMAC	10/31/2011	292.8	<LLD	2.33E-02
201	0.5 MI NE - PMAC	11/7/2011	293.2	<LLD	2.39E-02
201	0.5 MI NE - PMAC	11/14/2011	292.5	<LLD	2.38E-02
201	0.5 MI NE - PMAC	11/21/2011	290.5	<LLD	1.90E-02
201	0.5 MI NE - PMAC	11/28/2011	291.1	<LLD	1.32E-02
201	0.5 MI NE - PMAC	12/5/2011	287.6	<LLD	2.21E-02
201	0.5 MI NE - PMAC	12/12/2011	289.0	<LLD	1.99E-02
201	0.5 MI NE - PMAC	12/19/2011	288.0	<LLD	2.40E-02
201	0.5 MI NE - PMAC	12/27/2011	326.4	<LLD	2.46E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/3/2011	276.5	<LLD	2.08E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/10/2011	269.8	<LLD	2.10E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/17/2011	269.2	<LLD	2.55E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/24/2011	273.3	<LLD	2.13E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	1/31/2011	270.7	<LLD	1.81E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/7/2011	273.7	<LLD	2.24E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/14/2011	270.7	<LLD	2.23E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/21/2011	273.4	<LLD	1.82E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/28/2011	276.3	<LLD	2.45E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/7/2011	272.9	<LLD	2.10E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/14/2011	272.3	<LLD	2.22E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/21/2011	272.9	<LLD	2.25E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/28/2011	277.2	1.86E-01	
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	1.46E-01	
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/11/2011	274.8	2.83E-02	
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	1.90E-02	
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/25/2011	277.9	<LLD	1.71E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/2/2011	278.9	<LLD	1.65E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/9/2011	277.0	<LLD	1.93E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/16/2011	277.1	<LLD	2.36E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/23/2011	276.6	<LLD	2.06E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/30/2011	280.0	<LLD	2.22E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/6/2011	280.5	<LLD	1.82E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/13/2011	276.0	<LLD	2.02E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/20/2011	277.7	<LLD	2.17E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	6/27/2011	281.2	<LLD	1.75E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/4/2011	280.5	<LLD	2.21E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/11/2011	280.4	<LLD	1.89E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/18/2011	279.5	<LLD	2.23E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	7/25/2011	279.9	<LLD	1.66E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/1/2011	281.0	<LLD	2.03E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/8/2011	291.8	<LLD	1.92E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	292.1	<LLD	1.84E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/22/2011	291.4	<LLD	1.97E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/29/2011	291.0	<LLD	2.02E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/5/2011	289.3	<LLD	1.98E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/12/2011	292.1	<LLD	2.02E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/19/2011	289.3	<LLD	1.86E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	9/26/2011	290.5	<LLD	2.06E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/3/2011	287.7	<LLD	2.17E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/10/2011	285.0	<LLD	2.01E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/17/2011	287.5	<LLD	1.82E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/24/2011	285.0	<LLD	1.66E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	10/31/2011	284.6	<LLD	2.14E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/7/2011	285.6	<LLD	1.61E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/14/2011	284.0	<LLD	2.01E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/21/2011	283.4	<LLD	1.98E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/28/2011	284.0	<LLD	2.41E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/5/2011	281.5	<LLD	2.30E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/12/2011	282.5	<LLD	2.21E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/19/2011	281.9	<LLD	2.00E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	12/27/2011	322.5	<LLD	1.69E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/3/2011	276.4	<LLD	2.19E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/10/2011	269.7	<LLD	3.01E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/17/2011	268.2	<LLD	1.71E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/24/2011	275.6	<LLD	2.15E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/31/2011	272.2	<LLD	2.41E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/7/2011	272.2	<LLD	2.37E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2011	270.4	<LLD	2.19E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/21/2011	274.4	<LLD	2.31E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/28/2011	274.6	<LLD	2.43E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/7/2011	251.2	<LLD	2.45E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/14/2011	270.5	<LLD	2.14E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/21/2011	285.0	<LLD	1.61E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/28/2011	287.1	1.81E-01	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	9.39E-02	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	3.94E-02	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/18/2011	287.2	<LLD	2.65E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/25/2011	290.8	<LLD	2.25E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/2/2011	293.5	<LLD	1.57E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/9/2011	290.6	<LLD	2.26E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	289.7	<LLD	2.17E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/23/2011	290.4	<LLD	1.87E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/30/2011	293.9	<LLD	1.89E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/6/2011	295.6	<LLD	2.04E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/13/2011	296.0	<LLD	1.96E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/20/2011	292.5	<LLD	2.24E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/27/2011	295.0	<LLD	2.25E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/4/2011	294.4	<LLD	1.95E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/11/2011	294.7	<LLD	1.73E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/18/2011	293.3	<LLD	2.44E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/25/2011	293.7	<LLD	2.09E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/1/2011	294.0	<LLD	1.85E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/8/2011	294.5	<LLD	1.67E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	291.4	<LLD	2.00E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/22/2011	292.9	<LLD	1.95E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/29/2011	292.0	<LLD	2.06E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/5/2011	292.1	<LLD	2.63E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/12/2011	292.6	<LLD	2.17E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/19/2011	292.4	<LLD	1.82E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/26/2011	289.7	<LLD	2.26E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/3/2011	289.2	<LLD	2.03E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/10/2011	286.2	<LLD	1.86E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/17/2011	288.7	<LLD	1.88E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/24/2011	285.5	<LLD	2.08E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/31/2011	285.5	<LLD	2.58E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/7/2011	285.6	<LLD	2.16E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2011	286.1	<LLD	2.43E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/21/2011	283.4	<LLD	2.05E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/28/2011	284.7	<LLD	1.93E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/5/2011	281.8	<LLD	2.02E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/12/2011	283.2	<LLD	1.95E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/19/2011	282.5	<LLD	1.81E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/27/2011	323.6	<LLD	2.21E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/3/2011	262.0	<LLD	2.16E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/10/2011	260.9	<LLD	2.13E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/17/2011	258.6	<LLD	2.46E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/24/2011	260.7	<LLD	2.63E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/31/2011	258.3	<LLD	2.58E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/7/2011	259.3	<LLD	2.28E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	255.4	<LLD	2.77E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/21/2011	317.0	<LLD	1.93E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/28/2011	263.0	<LLD	2.46E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/7/2011	273.3	<LLD	1.70E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/14/2011	267.3	<LLD	2.61E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/21/2011	271.0	<LLD	2.74E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/28/2011	271.3	1.64E-01	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2011	264.5	1.58E-01	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	4.61E-02	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/18/2011	269.1	<LLD	2.52E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/25/2011	270.4	<LLD	2.35E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/2/2011	271.1	<LLD	1.97E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/9/2011	269.4	<LLD	2.20E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2011	270.8	<LLD	3.00E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/23/2011	269.1	<LLD	2.48E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/30/2011	274.2	<LLD	2.75E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/6/2011	271.2	<LLD	2.10E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/13/2011	273.2	<LLD	2.36E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/27/2011	270.3	<LLD	2.09E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/4/2011	275.8	<LLD	2.99E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/11/2011	271.9	<LLD	1.87E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/18/2011	273.8	<LLD	2.54E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/25/2011	274.5	<LLD	2.39E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/1/2011	274.5	<LLD	1.82E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	286.4	<LLD	2.30E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/22/2011	286.1	<LLD	2.01E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/29/2011	283.3	<LLD	1.92E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/5/2011	284.4	<LLD	2.63E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/12/2011	283.3	<LLD	2.25E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/19/2011	283.7	<LLD	2.60E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/26/2011	282.9	<LLD	1.82E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/3/2011	280.7	<LLD	1.95E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/10/2011	279.0	<LLD	2.12E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/17/2011	281.0	<LLD	2.07E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/24/2011	279.9	<LLD	2.60E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/31/2011	277.8	<LLD	2.29E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/7/2011	277.6	<LLD	1.67E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2011	277.1	<LLD	2.65E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/21/2011	277.4	<LLD	2.55E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/28/2011	278.7	<LLD	2.53E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/5/2011	275.2	<LLD	2.00E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/12/2011	276.0	<LLD	2.18E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/19/2011	274.6	<LLD	1.91E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/27/2011	315.8	<LLD	1.93E-02
205	0.6 MI SSE - SPOIL POND	1/3/2011	276.5	<LLD	1.74E-02
205	0.6 MI SSE - SPOIL POND	1/10/2011	268.2	<LLD	2.46E-02
205	0.6 MI SSE - SPOIL POND	1/17/2011	266.6	<LLD	2.62E-02
205	0.6 MI SSE - SPOIL POND	1/24/2011	273.7	<LLD	1.72E-02
205	0.6 MI SSE - SPOIL POND	1/31/2011	272.8	<LLD	2.52E-02
205	0.6 MI SSE - SPOIL POND	2/7/2011	274.3	<LLD	2.04E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
205	0.6 MI SSE - SPOIL POND	2/14/2011	270.5	<LLD	1.79E-02
205	0.6 MI SSE - SPOIL POND	2/21/2011	275.4	<LLD	1.76E-02
205	0.6 MI SSE - SPOIL POND	2/28/2011	277.4	<LLD	2.17E-02
205	0.6 MI SSE - SPOIL POND	3/7/2011	272.9	<LLD	1.91E-02
205	0.6 MI SSE - SPOIL POND	3/14/2011	273.1	<LLD	1.86E-02
205	0.6 MI SSE - SPOIL POND	3/21/2011	274.5	<LLD	2.17E-02
205	0.6 MI SSE - SPOIL POND	3/28/2011	278.4	2.02E-01	
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	1.53E-01	
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	3.76E-02	
205	0.6 MI SSE - SPOIL POND	4/18/2011	277.5	<LLD	2.14E-02
205	0.6 MI SSE - SPOIL POND	4/25/2011	280.0	<LLD	2.08E-02
205	0.6 MI SSE - SPOIL POND	5/2/2011	280.4	<LLD	2.03E-02
205	0.6 MI SSE - SPOIL POND	5/9/2011	279.1	<LLD	1.97E-02
205	0.6 MI SSE - SPOIL POND	5/16/2011	278.9	<LLD	2.01E-02
205	0.6 MI SSE - SPOIL POND	5/23/2011	278.7	<LLD	2.06E-02
205	0.6 MI SSE - SPOIL POND	5/30/2011	282.1	<LLD	2.27E-02
205	0.6 MI SSE - SPOIL POND	6/6/2011	282.4	<LLD	1.68E-02
205	0.6 MI SSE - SPOIL POND	6/13/2011	283.7	<LLD	1.98E-02
205	0.6 MI SSE - SPOIL POND	6/20/2011	279.7	<LLD	2.03E-02
205	0.6 MI SSE - SPOIL POND	6/27/2011	282.6	<LLD	1.82E-02
205	0.6 MI SSE - SPOIL POND	7/4/2011	282.3	<LLD	2.35E-02
205	0.6 MI SSE - SPOIL POND	7/11/2011	281.8	<LLD	2.27E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
205	0.6 MI SSE - SPOIL POND	7/18/2011	280.4	<LLD	2.07E-02
205	0.6 MI SSE - SPOIL POND	7/25/2011	281.3	<LLD	2.18E-02
205	0.6 MI SSE - SPOIL POND	8/1/2011	282.8	<LLD	2.18E-02
205	0.6 MI SSE - SPOIL POND	8/8/2011	294.5	<LLD	1.57E-02
205	0.6 MI SSE - SPOIL POND	8/15/2011	286.6	<LLD	1.75E-02
205	0.6 MI SSE - SPOIL POND	8/22/2011	286.7	<LLD	2.04E-02
205	0.6 MI SSE - SPOIL POND	8/29/2011	286.3	<LLD	2.22E-02
205	0.6 MI SSE - SPOIL POND	9/5/2011	284.0	<LLD	2.39E-02
205	0.6 MI SSE - SPOIL POND	9/12/2011	287.4	<LLD	2.18E-02
205	0.6 MI SSE - SPOIL POND	9/19/2011	282.8	<LLD	1.76E-02
205	0.6 MI SSE - SPOIL POND	9/26/2011	285.3	<LLD	2.30E-02
205	0.6 MI SSE - SPOIL POND	10/3/2011	283.3	<LLD	1.99E-02
205	0.6 MI SSE - SPOIL POND	10/10/2011	279.3	<LLD	1.60E-02
205	0.6 MI SSE - SPOIL POND	10/17/2011	282.5	<LLD	1.96E-02
205	0.6 MI SSE - SPOIL POND	10/24/2011	280.1	<LLD	1.78E-02
205	0.6 MI SSE - SPOIL POND	10/31/2011	277.5	<LLD	2.12E-02
205	0.6 MI SSE - SPOIL POND	11/7/2011	275.2	<LLD	2.62E-02
205	0.6 MI SSE - SPOIL POND	11/14/2011	274.0	<LLD	1.86E-02
205	0.6 MI SSE - SPOIL POND	11/21/2011	276.2	<LLD	2.29E-02
205	0.6 MI SSE - SPOIL POND	11/28/2011	275.8	<LLD	1.73E-02
205	0.6 MI SSE - SPOIL POND	12/5/2011	271.0	<LLD	2.21E-02
205	0.6 MI SSE - SPOIL POND	12/12/2011	273.0	<LLD	2.59E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
205	0.6 MI SSE - SPOIL POND	12/19/2011	272.5	<LLD	1.80E-02
205	0.6 MI SSE - SPOIL POND	12/27/2011	313.4	<LLD	2.39E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	1/3/2011	276.2	<LLD	1.89E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	1/10/2011	277.7	<LLD	2.47E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	1/17/2011	272.7	<LLD	1.95E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	1/24/2011	277.1	<LLD	2.18E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	1/31/2011	271.2	<LLD	2.30E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/7/2011	281.2	<LLD	2.15E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	277.6	<LLD	2.22E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/21/2011	283.0	<LLD	1.66E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/28/2011	282.4	<LLD	2.29E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/7/2011	282.8	<LLD	1.57E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/14/2011	279.8	<LLD	1.74E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/21/2011	284.5	<LLD	2.04E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/28/2011	283.4	1.01E-01	
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	9.72E-02	
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/11/2011	285.3	3.32E-02	
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/18/2011	285.1	<LLD	2.38E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/25/2011	288.0	<LLD	2.25E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/2/2011	288.5	<LLD	1.97E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/9/2011	286.9	<LLD	1.99E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/16/2011	288.4	<LLD	2.31E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/23/2011	288.0	<LLD	1.64E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/30/2011	290.5	<LLD	2.29E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	6/6/2011	286.1	<LLD	1.70E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	6/13/2011	289.3	<LLD	1.77E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	6/20/2011	289.6	<LLD	2.31E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	6/27/2011	279.7	<LLD	1.86E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	7/4/2011	281.4	<LLD	2.53E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	7/11/2011	278.3	<LLD	2.30E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	7/18/2011	280.9	<LLD	2.18E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	7/25/2011	282.5	<LLD	1.92E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/1/2011	280.3	<LLD	2.08E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/8/2011	277.5	<LLD	2.15E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/15/2011	278.1	<LLD	2.19E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/22/2011	278.1	<LLD	2.23E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/29/2011	273.1	<LLD	2.40E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	9/5/2011	273.9	<LLD	2.10E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	9/12/2011	272.1	<LLD	2.60E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	9/19/2011	271.2	<LLD	1.85E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	9/26/2011	270.2	<LLD	2.13E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	10/3/2011	268.7	<LLD	2.43E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	10/10/2011	265.4	<LLD	1.93E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	10/17/2011	268.1	<LLD	1.86E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge
Quantity: cubic meters
Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	10/24/2011	266.6	<LLD	2.07E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	10/31/2011	265.1	<LLD	2.45E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/7/2011	265.7	<LLD	2.49E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/14/2011	264.5	<LLD	2.33E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/21/2011	266.4	<LLD	2.51E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/28/2011	266.2	<LLD	2.50E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	12/5/2011	262.6	<LLD	2.81E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	12/12/2011	264.0	<LLD	2.00E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	12/19/2011	262.9	<LLD	2.53E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	12/27/2011	303.5	<LLD	2.32E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Fish and Invertebrate
Quantity: Grams
Concentration (Activity): pCi/Gram

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Efficiency*	*Activity*	*LLD*
706	NANCY'S CREEK - FREE SWIMMERS	9/28/2011	1000		<LLD	2.96E-01
707	NANCY'S CREEK - BOTTOM FEEDERS	9/28/2011	1000		<LLD	3.23E-01
708	NANCY'S CREEK - SH/BO*	9/28/2011	1000		<LLD	3.67E-01

* ***Shellfish/Benthic Organisms***

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
404	WELL ESS-1B, 0.16 MILES SW	1/18/2011	1	<LLD	2.30E+02
404	WELL ESS-1B, 0.16 MILES SW	4/4/2011	1	<LLD	2.34E+02
404	WELL ESS-1B, 0.16 MILES SW	7/19/2011	1	<LLD	2.49E+02
404	WELL ESS-1B, 0.16 MILES SW	10/3/2011	1	<LLD	2.50E+02
407	WELL ESS-13B, 0.06 MILES ENE	1/20/2011	1	<LLD	2.29E+02
407	WELL ESS-13B, 0.06 MILES ENE	4/14/2011	1	<LLD	2.29E+02
407	WELL ESS-13B, 0.06 MILES ENE	7/11/2011	1	<LLD	2.45E+02
407	WELL ESS-13B, 0.06 MILES ENE	10/24/2011	1	<LLD	2.45E+02
409	WELL ESS-17A, 0.65 MILES NE	3/1/2011	1	<LLD	2.39E+02
409	WELL ESS-17A, 0.65 MILES NE	5/31/2011	1	<LLD	2.36E+02
409	WELL ESS-17A, 0.65 MILES NE	9/6/2011	1	<LLD	2.49E+02
409	WELL ESS-17A, 0.65 MILES NE	11/28/2011	1	<LLD	2.47E+02
410	WELL ESS-17B, 0.65 MILES NE	3/1/2011	1	<LLD	2.39E+02
410	WELL ESS-17B, 0.65 MILES NE	5/31/2011	1	<LLD	2.35E+02
410	WELL ESS-17B, 0.65 MILES NE	9/6/2011	1	<LLD	2.48E+02
410	WELL ESS-17B, 0.65 MILES NE	11/28/2011	1	<LLD	2.49E+02
418	WELL ESS-21B, NEAR SDSP	1/11/2011	1	<LLD	2.36E+02
418	WELL ESS-21B, NEAR SDSP	4/5/2011	1	2.34E+02	
418	WELL ESS-21B, NEAR SDSP	7/7/2011	1	<LLD	2.45E+02
418	WELL ESS-21B, NEAR SDSP	10/3/2011	1	<LLD	2.50E+02
423	WELL ESS-24A, NEAR SDSP	1/5/2011	1	<LLD	2.34E+02
423	WELL ESS-24A, NEAR SDSP	4/5/2011	1	<LLD	2.34E+02
423	WELL ESS-24A, NEAR SDSP	7/7/2011	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	1/5/2011	1	<LLD	2.34E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
424	WELL ESS-24B, NEAR SDSP	4/5/2011	1	<LLD	2.36E+02
424	WELL ESS-24B, NEAR SDSP	7/7/2011	1	<LLD	2.45E+02
426	WELL ESS-25B, NEAR SDSP	3/2/2011	1	<LLD	2.45E+02
426	WELL ESS-25B, NEAR SDSP	6/13/2011	1	<LLD	2.41E+02
426	WELL ESS-25B, NEAR SDSP	9/14/2011	1	<LLD	2.49E+02
426	WELL ESS-25B, NEAR SDSP	12/7/2011	1	<LLD	2.50E+02
429	WELL ESS-27A, NEAR SDSP	3/1/2011	1	<LLD	2.40E+02
429	WELL ESS-27A, NEAR SDSP	6/1/2011	1	<LLD	2.43E+02
429	WELL ESS-27A, NEAR SDSP	9/6/2011	1	<LLD	2.50E+02
429	WELL ESS-27A, NEAR SDSP	11/29/2011	1	<LLD	2.48E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	2/9/2011	1	<LLD	2.34E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	5/18/2011	1	<LLD	2.41E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	6/15/2011	1	<LLD	2.45E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	7/14/2011	1	<LLD	2.41E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	8/4/2011	1	3.10E+02	
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	8/15/2011	1	<LLD	2.26E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	9/7/2011	1	<LLD	2.50E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	10/4/2011	1	<LLD	2.45E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	11/17/2011	1	<LLD	2.56E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	12/8/2011	1	<LLD	2.49E+02
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	12/13/2011	1	<LLD	2.40E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	0.005	<LLD	2.27E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	0.005	<LLD	2.27E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	0.005	<LLD	2.27E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	0.005	<LLD	2.26E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	0.005	<LLD	2.26E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	0.005	<LLD	2.23E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	0.005	<LLD	2.30E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	0.005	<LLD	2.28E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	0.005	<LLD	2.31E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	0.005	<LLD	2.28E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	0.005	<LLD	2.29E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	0.005	<LLD	2.29E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	0.005	<LLD	2.28E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	0.005	4.17E+02	2.26E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	0.005	4.01E+02	2.26E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	0.005	<LLD	2.26E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	0.005	<LLD	2.24E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	0.005	3.27E+02	2.25E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	0.005	<LLD	2.29E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	0.005	2.39E+02	2.28E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	0.005	<LLD	2.31E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	0.005	<LLD	2.29E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	0.005	<LLD	2.29E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	0.005	2.87E+02	2.30E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
494	NANCY'S CREEK - WP-106	1/4/2011	1	2.84E+02	
494	NANCY'S CREEK - WP-106	1/13/2011	1	4.00E+02	
494	NANCY'S CREEK - WP-106	1/18/2011	1	<LLD	2.45E+02
494	NANCY'S CREEK - WP-106	1/24/2011	1	3.01E+02	
494	NANCY'S CREEK - WP-106	2/1/2011	1	2.48E+02	
494	NANCY'S CREEK - WP-106	2/8/2011	1	4.57E+02	
494	NANCY'S CREEK - WP-106	2/16/2011	1	<LLD	2.37E+02
494	NANCY'S CREEK - WP-106	2/23/2011	1	<LLD	2.46E+02
494	NANCY'S CREEK - WP-106	3/2/2011	1	<LLD	2.40E+02
494	NANCY'S CREEK - WP-106	3/9/2011	1	<LLD	2.41E+02
494	NANCY'S CREEK - WP-106	3/14/2011	1	<LLD	2.37E+02
494	NANCY'S CREEK - WP-106	3/21/2011	1	<LLD	2.39E+02
494	NANCY'S CREEK - WP-106	3/30/2011	1	<LLD	2.49E+02
494	NANCY'S CREEK - WP-106	4/6/2011	1	<LLD	2.41E+02
494	NANCY'S CREEK - WP-106	4/11/2011	1	<LLD	2.36E+02
494	NANCY'S CREEK - WP-106	4/18/2011	1	<LLD	2.31E+02
494	NANCY'S CREEK - WP-106	4/25/2011	1	<LLD	2.35E+02
494	NANCY'S CREEK - WP-106	5/3/2011	1	<LLD	2.31E+02
494	NANCY'S CREEK - WP-106	5/9/2011	1	<LLD	2.30E+02
494	NANCY'S CREEK - WP-106	5/16/2011	1	<LLD	2.35E+02
494	NANCY'S CREEK - WP-106	5/23/2011	1	<LLD	2.38E+02
494	NANCY'S CREEK - WP-106	5/31/2011	1	<LLD	2.39E+02
494	NANCY'S CREEK - WP-106	6/6/2011	1	2.47E+02	
494	NANCY'S CREEK - WP-106	6/14/2011	1	<LLD	2.38E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
494	NANCY'S CREEK - WP-106	6/21/2011	1	<LLD	2.34E+02
494	NANCY'S CREEK - WP-106	6/29/2011	1	<LLD	2.46E+02
494	NANCY'S CREEK - WP-106	7/5/2011	1	<LLD	2.42E+02
494	NANCY'S CREEK - WP-106	7/12/2011	1	<LLD	2.42E+02
494	NANCY'S CREEK - WP-106	7/18/2011	1	<LLD	2.54E+02
494	NANCY'S CREEK - WP-106	7/26/2011	1	<LLD	2.40E+02
494	NANCY'S CREEK - WP-106	8/2/2011	1	<LLD	2.56E+02
494	NANCY'S CREEK - WP-106	8/10/2011	1	<LLD	2.49E+02
494	NANCY'S CREEK - WP-106	8/15/2011	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	8/22/2011	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	8/30/2011	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	9/6/2011	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	9/13/2011	1	<LLD	2.52E+02
494	NANCY'S CREEK - WP-106	9/20/2011	1	<LLD	2.49E+02
494	NANCY'S CREEK - WP-106	9/28/2011	1	<LLD	2.52E+02
494	NANCY'S CREEK - WP-106	10/4/2011	1	<LLD	2.51E+02
494	NANCY'S CREEK - WP-106	10/10/2011	1	<LLD	2.43E+02
494	NANCY'S CREEK - WP-106	10/17/2011	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	10/24/2011	1	<LLD	2.52E+02
494	NANCY'S CREEK - WP-106	11/1/2011	1	<LLD	2.53E+02
494	NANCY'S CREEK - WP-106	11/8/2011	1	<LLD	2.46E+02
494	NANCY'S CREEK - WP-106	11/15/2011	1	<LLD	2.53E+02
494	NANCY'S CREEK - WP-106	11/22/2011	1	<LLD	2.50E+02
494	NANCY'S CREEK - WP-106	11/29/2011	1	<LLD	2.45E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
494	NANCY'S CREEK - WP-106	12/6/2011	1	<LLD	2.46E+02
494	NANCY'S CREEK - WP-106	12/14/2011	1	<LLD	2.56E+02
494	NANCY'S CREEK - WP-106	12/19/2011	1	3.41E+02	
494	NANCY'S CREEK - WP-106	12/27/2011	1	<LLD	2.39E+02
495	NANCY'S CREEK - WP-52	1/4/2011	1	<LLD	2.40E+02
495	NANCY'S CREEK - WP-52	1/13/2011	1	4.31E+02	
495	NANCY'S CREEK - WP-52	1/18/2011	1	<LLD	2.31E+02
495	NANCY'S CREEK - WP-52	1/24/2011	1	<LLD	2.47E+02
495	NANCY'S CREEK - WP-52	2/1/2011	1	<LLD	2.29E+02
495	NANCY'S CREEK - WP-52	2/8/2011	1	<LLD	2.35E+02
495	NANCY'S CREEK - WP-52	2/16/2011	1	<LLD	2.32E+02
495	NANCY'S CREEK - WP-52	2/23/2011	1	<LLD	2.33E+02
495	NANCY'S CREEK - WP-52	3/2/2011	1	<LLD	2.31E+02
495	NANCY'S CREEK - WP-52	3/9/2011	1	<LLD	2.35E+02
495	NANCY'S CREEK - WP-52	3/14/2011	1	<LLD	2.49E+02
495	NANCY'S CREEK - WP-52	3/21/2011	1	<LLD	2.30E+02
495	NANCY'S CREEK - WP-52	3/30/2011	1	<LLD	2.38E+02
495	NANCY'S CREEK - WP-52	4/6/2011	1	<LLD	2.33E+02
495	NANCY'S CREEK - WP-52	4/11/2011	1	<LLD	2.33E+02
495	NANCY'S CREEK - WP-52	4/18/2011	1	<LLD	2.42E+02
495	NANCY'S CREEK - WP-52	4/25/2011	1	<LLD	2.30E+02
495	NANCY'S CREEK - WP-52	5/3/2011	1	<LLD	2.27E+02
495	NANCY'S CREEK - WP-52	5/9/2011	1	<LLD	2.27E+02
495	NANCY'S CREEK - WP-52	5/16/2011	1	<LLD	2.33E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
495	NANCY'S CREEK - WP-52	5/23/2011	1	<LLD	2.38E+02
495	NANCY'S CREEK - WP-52	5/31/2011	1	<LLD	2.35E+02
495	NANCY'S CREEK - WP-52	6/6/2011	1	<LLD	2.36E+02
495	NANCY'S CREEK - WP-52	6/14/2011	1	<LLD	2.39E+02
495	NANCY'S CREEK - WP-52	6/21/2011	1	<LLD	2.39E+02
495	NANCY'S CREEK - WP-52	6/29/2011	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	7/5/2011	1	<LLD	2.47E+02
495	NANCY'S CREEK - WP-52	7/12/2011	1	<LLD	2.43E+02
495	NANCY'S CREEK - WP-52	7/18/2011	1	<LLD	2.40E+02
495	NANCY'S CREEK - WP-52	7/26/2011	1	3.52E+02	
495	NANCY'S CREEK - WP-52	8/2/2011	1	<LLD	2.48E+02
495	NANCY'S CREEK - WP-52	8/10/2011	1	<LLD	2.41E+02
495	NANCY'S CREEK - WP-52	8/15/2011	1	<LLD	2.47E+02
495	NANCY'S CREEK - WP-52	8/22/2011	1	<LLD	2.52E+02
495	NANCY'S CREEK - WP-52	8/30/2011	1	<LLD	2.48E+02
495	NANCY'S CREEK - WP-52	9/6/2011	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	9/13/2011	1	<LLD	2.49E+02
495	NANCY'S CREEK - WP-52	9/20/2011	1	<LLD	2.51E+02
495	NANCY'S CREEK - WP-52	9/28/2011	1	<LLD	2.45E+02
495	NANCY'S CREEK - WP-52	10/4/2011	1	<LLD	2.42E+02
495	NANCY'S CREEK - WP-52	10/10/2011	1	<LLD	2.50E+02
495	NANCY'S CREEK - WP-52	10/17/2011	1	<LLD	2.60E+02
495	NANCY'S CREEK - WP-52	10/24/2011	1	<LLD	2.46E+02
495	NANCY'S CREEK - WP-52	11/1/2011	1	<LLD	2.55E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
495	NANCY'S CREEK - WP-52	11/8/2011	1	<LLD	2.49E+02
495	NANCY'S CREEK - WP-52	11/15/2011	1	<LLD	2.49E+02
495	NANCY'S CREEK - WP-52	11/22/2011	1	<LLD	2.61E+02
495	NANCY'S CREEK - WP-52	11/29/2011	1	<LLD	2.50E+02
495	NANCY'S CREEK - WP-52	12/6/2011	1	<LLD	2.45E+02
495	NANCY'S CREEK - WP-52	12/14/2011	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	12/19/2011	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	12/27/2011	1	<LLD	2.27E+02
496	NANCY'S CREEK - WP-53	1/4/2011	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	1/13/2011	1	4.34E+02	
496	NANCY'S CREEK - WP-53	1/18/2011	1	2.43E+02	
496	NANCY'S CREEK - WP-53	1/24/2011	1	<LLD	2.48E+02
496	NANCY'S CREEK - WP-53	2/1/2011	1	<LLD	2.30E+02
496	NANCY'S CREEK - WP-53	2/8/2011	1	3.86E+02	
496	NANCY'S CREEK - WP-53	2/16/2011	1	<LLD	2.32E+02
496	NANCY'S CREEK - WP-53	2/23/2011	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	3/2/2011	1	<LLD	2.30E+02
496	NANCY'S CREEK - WP-53	3/9/2011	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	3/14/2011	1	<LLD	2.36E+02
496	NANCY'S CREEK - WP-53	3/21/2011	1	<LLD	2.45E+02
496	NANCY'S CREEK - WP-53	3/30/2011	1	<LLD	2.33E+02
496	NANCY'S CREEK - WP-53	4/6/2011	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	4/11/2011	1	<LLD	2.36E+02
496	NANCY'S CREEK - WP-53	4/18/2011	1	<LLD	2.41E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
496	NANCY'S CREEK - WP-53	4/25/2011	1	<LLD	2.30E+02
496	NANCY'S CREEK - WP-53	5/3/2011	1	<LLD	2.28E+02
496	NANCY'S CREEK - WP-53	5/9/2011	1	<LLD	2.27E+02
496	NANCY'S CREEK - WP-53	5/16/2011	1	<LLD	2.32E+02
496	NANCY'S CREEK - WP-53	5/23/2011	1	<LLD	2.39E+02
496	NANCY'S CREEK - WP-53	5/31/2011	1	<LLD	2.43E+02
496	NANCY'S CREEK - WP-53	6/6/2011	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	6/14/2011	1	<LLD	2.41E+02
496	NANCY'S CREEK - WP-53	6/21/2011	1	<LLD	2.40E+02
496	NANCY'S CREEK - WP-53	6/29/2011	1	<LLD	2.55E+02
496	NANCY'S CREEK - WP-53	7/5/2011	1	<LLD	2.44E+02
496	NANCY'S CREEK - WP-53	7/12/2011	1	<LLD	2.43E+02
496	NANCY'S CREEK - WP-53	7/18/2011	1	<LLD	2.40E+02
496	NANCY'S CREEK - WP-53	7/26/2011	1	1.18E+03	
496	NANCY'S CREEK - WP-53	8/2/2011	1	<LLD	2.47E+02
496	NANCY'S CREEK - WP-53	8/10/2011	1	<LLD	2.43E+02
496	NANCY'S CREEK - WP-53	8/15/2011	1	<LLD	2.48E+02
496	NANCY'S CREEK - WP-53	8/22/2011	1	<LLD	2.51E+02
496	NANCY'S CREEK - WP-53	8/30/2011	1	<LLD	2.39E+02
496	NANCY'S CREEK - WP-53	9/6/2011	1	<LLD	2.56E+02
496	NANCY'S CREEK - WP-53	9/13/2011	1	<LLD	2.49E+02
496	NANCY'S CREEK - WP-53	9/20/2011	1	<LLD	2.50E+02
496	NANCY'S CREEK - WP-53	9/28/2011	1	<LLD	2.47E+02
496	NANCY'S CREEK - WP-53	10/4/2011	1	<LLD	2.42E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
496	NANCY'S CREEK - WP-53	10/10/2011	1	<LLD	2.50E+02
496	NANCY'S CREEK - WP-53	10/17/2011	1	<LLD	2.48E+02
496	NANCY'S CREEK - WP-53	10/24/2011	1	<LLD	2.46E+02
496	NANCY'S CREEK - WP-53	11/1/2011	1	<LLD	2.60E+02
496	NANCY'S CREEK - WP-53	11/8/2011	1	<LLD	2.48E+02
496	NANCY'S CREEK - WP-53	11/15/2011	1	<LLD	2.49E+02
496	NANCY'S CREEK - WP-53	11/22/2011	1	<LLD	2.61E+02
496	NANCY'S CREEK - WP-53	11/29/2011	1	<LLD	2.50E+02
496	NANCY'S CREEK - WP-53	12/6/2011	1	<LLD	2.44E+02
496	NANCY'S CREEK - WP-53	12/14/2011	1	<LLD	2.56E+02
496	NANCY'S CREEK - WP-53	12/19/2011	1	<LLD	2.56E+02
496	NANCY'S CREEK - WP-53	12/27/2011	1	<LLD	2.26E+02
497	NANCY'S CREEK - WP-55	1/4/2011	1	<LLD	2.39E+02
497	NANCY'S CREEK - WP-55	1/13/2011	1	4.32E+02	
497	NANCY'S CREEK - WP-55	1/18/2011	1	<LLD	2.30E+02
497	NANCY'S CREEK - WP-55	1/24/2011	1	<LLD	2.44E+02
497	NANCY'S CREEK - WP-55	2/1/2011	1	<LLD	2.30E+02
497	NANCY'S CREEK - WP-55	2/8/2011	1	4.57E+02	
497	NANCY'S CREEK - WP-55	2/16/2011	1	<LLD	2.32E+02
497	NANCY'S CREEK - WP-55	2/23/2011	1	<LLD	2.32E+02
497	NANCY'S CREEK - WP-55	3/2/2011	1	<LLD	2.31E+02
497	NANCY'S CREEK - WP-55	3/9/2011	1	<LLD	2.42E+02
497	NANCY'S CREEK - WP-55	3/14/2011	1	2.48E+02	
497	NANCY'S CREEK - WP-55	3/21/2011	1	<LLD	2.36E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters *Analysis: Tritium*
Concentration (Activity): pCi/Liter

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
497	NANCY'S CREEK - WP-55	3/30/2011	1	<LLD	2.32E+02
497	NANCY'S CREEK - WP-55	4/6/2011	1	<LLD	2.34E+02
497	NANCY'S CREEK - WP-55	4/11/2011	1	2.47E+02	
497	NANCY'S CREEK - WP-55	4/18/2011	1	<LLD	2.38E+02
497	NANCY'S CREEK - WP-55	4/25/2011	1	2.62E+02	
497	NANCY'S CREEK - WP-55	5/3/2011	1	<LLD	2.29E+02
497	NANCY'S CREEK - WP-55	5/9/2011	1	<LLD	2.27E+02
497	NANCY'S CREEK - WP-55	5/16/2011	1	<LLD	2.33E+02
497	NANCY'S CREEK - WP-55	5/23/2011	1	<LLD	2.40E+02
497	NANCY'S CREEK - WP-55	5/31/2011	1	<LLD	2.32E+02
497	NANCY'S CREEK - WP-55	6/6/2011	1	<LLD	2.36E+02
497	NANCY'S CREEK - WP-55	6/14/2011	1	<LLD	2.45E+02
497	NANCY'S CREEK - WP-55	6/21/2011	1	<LLD	2.41E+02
497	NANCY'S CREEK - WP-55	6/29/2011	1	<LLD	2.56E+02
497	NANCY'S CREEK - WP-55	7/5/2011	1	<LLD	2.44E+02
497	NANCY'S CREEK - WP-55	7/12/2011	1	<LLD	2.60E+02
497	NANCY'S CREEK - WP-55	7/18/2011	1	<LLD	2.44E+02
497	NANCY'S CREEK - WP-55	7/26/2011	1	2.99E+02	
497	NANCY'S CREEK - WP-55	8/2/2011	1	<LLD	2.48E+02
497	NANCY'S CREEK - WP-55	8/10/2011	1	<LLD	2.48E+02
497	NANCY'S CREEK - WP-55	8/15/2011	1	<LLD	2.49E+02
497	NANCY'S CREEK - WP-55	8/22/2011	1	<LLD	2.51E+02
497	NANCY'S CREEK - WP-55	8/30/2011	1	<LLD	2.40E+02
497	NANCY'S CREEK - WP-55	9/6/2011	1	<LLD	2.59E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
497	NANCY'S CREEK - WP-55	9/13/2011	1	<LLD	2.49E+02
497	NANCY'S CREEK - WP-55	9/20/2011	1	<LLD	2.46E+02
497	NANCY'S CREEK - WP-55	9/28/2011	1	<LLD	2.47E+02
497	NANCY'S CREEK - WP-55	10/4/2011	1	<LLD	2.44E+02
497	NANCY'S CREEK - WP-55	10/10/2011	1	<LLD	2.51E+02
497	NANCY'S CREEK - WP-55	10/17/2011	1	<LLD	2.47E+02
497	NANCY'S CREEK - WP-55	10/24/2011	1	<LLD	2.46E+02
497	NANCY'S CREEK - WP-55	11/1/2011	1	<LLD	2.54E+02
497	NANCY'S CREEK - WP-55	11/8/2011	1	<LLD	2.49E+02
497	NANCY'S CREEK - WP-55	11/15/2011	1	<LLD	2.48E+02
497	NANCY'S CREEK - WP-55	11/22/2011	1	<LLD	2.59E+02
497	NANCY'S CREEK - WP-55	11/29/2011	1	<LLD	2.50E+02
497	NANCY'S CREEK - WP-55	12/6/2011	1	3.58E+02	
497	NANCY'S CREEK - WP-55	12/14/2011	1	<LLD	2.53E+02
497	NANCY'S CREEK - WP-55	12/19/2011	1	2.52E+02	
497	NANCY'S CREEK - WP-55	12/27/2011	1	<LLD	2.27E+02
498	NANCY'S CREEK - WP-57	1/4/2011	1	<LLD	2.38E+02
498	NANCY'S CREEK - WP-57	1/13/2011	1	3.64E+02	
498	NANCY'S CREEK - WP-57	1/18/2011	1	<LLD	2.30E+02
498	NANCY'S CREEK - WP-57	1/24/2011	1	<LLD	2.46E+02
498	NANCY'S CREEK - WP-57	2/1/2011	1	<LLD	2.45E+02
498	NANCY'S CREEK - WP-57	2/8/2011	1	4.57E+02	
498	NANCY'S CREEK - WP-57	2/16/2011	1	<LLD	2.31E+02
498	NANCY'S CREEK - WP-57	2/23/2011	1	<LLD	2.33E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
498	NANCY'S CREEK - WP-57	3/2/2011	1	<LLD	2.30E+02
498	NANCY'S CREEK - WP-57	3/9/2011	1	<LLD	2.34E+02
498	NANCY'S CREEK - WP-57	3/14/2011	1	3.91E+02	
498	NANCY'S CREEK - WP-57	3/21/2011	1	<LLD	2.36E+02
498	NANCY'S CREEK - WP-57	3/30/2011	1	<LLD	2.34E+02
498	NANCY'S CREEK - WP-57	4/6/2011	1	<LLD	2.34E+02
498	NANCY'S CREEK - WP-57	4/11/2011	1	3.17E+02	
498	NANCY'S CREEK - WP-57	4/18/2011	1	<LLD	2.36E+02
498	NANCY'S CREEK - WP-57	4/25/2011	1	<LLD	2.31E+02
498	NANCY'S CREEK - WP-57	5/3/2011	1	<LLD	2.28E+02
498	NANCY'S CREEK - WP-57	5/9/2011	1	<LLD	2.27E+02
498	NANCY'S CREEK - WP-57	5/16/2011	1	<LLD	2.39E+02
498	NANCY'S CREEK - WP-57	5/23/2011	1	<LLD	2.38E+02
498	NANCY'S CREEK - WP-57	5/31/2011	1	<LLD	2.31E+02
498	NANCY'S CREEK - WP-57	6/6/2011	1	<LLD	2.34E+02
498	NANCY'S CREEK - WP-57	6/14/2011	1	<LLD	2.46E+02
498	NANCY'S CREEK - WP-57	6/21/2011	1	<LLD	2.39E+02
498	NANCY'S CREEK - WP-57	6/29/2011	1	<LLD	2.55E+02
498	NANCY'S CREEK - WP-57	7/5/2011	1	<LLD	2.44E+02
498	NANCY'S CREEK - WP-57	7/12/2011	1	<LLD	2.53E+02
498	NANCY'S CREEK - WP-57	7/18/2011	1	<LLD	2.45E+02
498	NANCY'S CREEK - WP-57	7/26/2011	1	2.99E+02	
498	NANCY'S CREEK - WP-57	8/2/2011	1	<LLD	2.47E+02
498	NANCY'S CREEK - WP-57	8/10/2011	1	<LLD	2.48E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
498	NANCY'S CREEK - WP-57	8/15/2011	1	<LLD	2.49E+02
498	NANCY'S CREEK - WP-57	8/22/2011	1	<LLD	2.53E+02
498	NANCY'S CREEK - WP-57	8/30/2011	1	<LLD	2.41E+02
498	NANCY'S CREEK - WP-57	9/6/2011	1	<LLD	2.59E+02
498	NANCY'S CREEK - WP-57	9/13/2011	1	<LLD	2.50E+02
498	NANCY'S CREEK - WP-57	9/20/2011	1	<LLD	2.46E+02
498	NANCY'S CREEK - WP-57	9/28/2011	1	<LLD	2.47E+02
498	NANCY'S CREEK - WP-57	10/4/2011	1	<LLD	2.43E+02
498	NANCY'S CREEK - WP-57	10/10/2011	1	2.50E+02	
498	NANCY'S CREEK - WP-57	10/17/2011	1	2.66E+02	
498	NANCY'S CREEK - WP-57	10/24/2011	1	<LLD	2.47E+02
498	NANCY'S CREEK - WP-57	11/1/2011	1	<LLD	2.54E+02
498	NANCY'S CREEK - WP-57	11/8/2011	1	<LLD	2.58E+02
498	NANCY'S CREEK - WP-57	11/15/2011	1	<LLD	2.46E+02
498	NANCY'S CREEK - WP-57	11/22/2011	1	<LLD	2.60E+02
498	NANCY'S CREEK - WP-57	11/29/2011	1	<LLD	2.50E+02
498	NANCY'S CREEK - WP-57	12/6/2011	1	2.85E+02	
498	NANCY'S CREEK - WP-57	12/14/2011	1	<LLD	2.53E+02
498	NANCY'S CREEK - WP-57	12/19/2011	1	<LLD	2.55E+02
498	NANCY'S CREEK - WP-57	12/27/2011	1	<LLD	2.26E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/4/2011	1	<LLD	2.36E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/13/2011	1	<LLD	2.32E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/18/2011	1	<LLD	2.33E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/24/2011	1	<LLD	2.37E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/1/2011	1	<LLD	2.36E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/8/2011	1	<LLD	2.37E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/16/2011	1	<LLD	2.31E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/23/2011	1	<LLD	2.33E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/2/2011	1	<LLD	2.31E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/9/2011	1	<LLD	2.33E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/14/2011	1	<LLD	2.36E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/21/2011	1	<LLD	2.37E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	<LLD	2.40E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/6/2011	1	<LLD	2.36E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/11/2011	1	<LLD	2.35E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/18/2011	1	<LLD	2.30E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/25/2011	1	<LLD	2.30E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	5/3/2011	1	<LLD	2.33E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	5/9/2011	1	<LLD	2.30E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	5/16/2011	1	<LLD	2.40E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	5/23/2011	1	<LLD	2.40E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	5/31/2011	1	<LLD	2.31E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/6/2011	1	<LLD	2.32E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/14/2011	1	<LLD	2.44E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/21/2011	1	<LLD	2.40E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	<LLD	2.63E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/5/2011	1	<LLD	2.43E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/12/2011	1	<LLD	2.52E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/18/2011	1	<LLD	2.45E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/26/2011	1	<LLD	2.36E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/2/2011	1	<LLD	2.47E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/10/2011	1	<LLD	2.48E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/15/2011	1	<LLD	2.49E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/22/2011	1	<LLD	2.53E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/30/2011	1	<LLD	2.50E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/6/2011	1	<LLD	2.59E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/13/2011	1	<LLD	2.50E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/20/2011	1	<LLD	2.46E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	<LLD	2.51E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/4/2011	1	<LLD	2.42E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/10/2011	1	<LLD	2.43E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/17/2011	1	<LLD	2.47E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/24/2011	1	<LLD	2.55E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/1/2011	1	<LLD	2.54E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/8/2011	1	<LLD	2.55E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/15/2011	1	<LLD	2.47E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/22/2011	1	<LLD	2.54E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/29/2011	1	<LLD	2.46E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/6/2011	1	<LLD	2.45E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/14/2011	1	<LLD	2.50E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/19/2011	1	<LLD	2.51E+02
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/27/2011	1	<LLD	2.27E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
604	NANCY'S CREEK MARSH AREA --WP-92	1/4/2011	1	2.97E+03	
604	NANCY'S CREEK MARSH AREA --WP-92	1/13/2011	1	1.22E+04	
604	NANCY'S CREEK MARSH AREA --WP-92	1/18/2011	1	4.61E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	1/24/2011	1	5.12E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	2/1/2011	1	6.34E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	2/8/2011	1	7.03E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	2/16/2011	1	3.52E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	2/23/2011	1	7.46E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	3/2/2011	1	7.60E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	3/9/2011	1	7.98E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	3/14/2011	1	1.17E+03	
604	NANCY'S CREEK MARSH AREA --WP-92	3/21/2011	1	5.10E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	3/30/2011	1	2.93E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	4/6/2011	1	<LLD	2.42E+02
604	NANCY'S CREEK MARSH AREA --WP-92	4/11/2011	1	7.41E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	4/18/2011	1	<LLD	2.31E+02
604	NANCY'S CREEK MARSH AREA --WP-92	4/25/2011	1	2.82E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	5/3/2011	1	2.63E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	5/9/2011	1	2.45E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	5/16/2011	1	2.78E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	5/23/2011	1	2.63E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	5/31/2011	1	4.04E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	6/6/2011	1	5.34E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	6/14/2011	1	<LLD	2.40E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
604	NANCY'S CREEK MARSH AREA --WP-92	6/21/2011	1	5.58E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	6/29/2011	1	<LLD	2.46E+02
604	NANCY'S CREEK MARSH AREA --WP-92	7/5/2011	1	3.31E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	7/12/2011	1	3.00E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	7/18/2011	1	<LLD	2.48E+02
604	NANCY'S CREEK MARSH AREA --WP-92	7/26/2011	1	6.42E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	8/2/2011	1	<LLD	2.60E+02
604	NANCY'S CREEK MARSH AREA --WP-92	8/10/2011	1	2.54E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	8/15/2011	1	3.46E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	8/22/2011	1	6.86E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	8/30/2011	1	3.46E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	9/6/2011	1	6.50E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	9/13/2011	1	3.76E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	9/20/2011	1	<LLD	2.49E+02
604	NANCY'S CREEK MARSH AREA --WP-92	9/28/2011	1	4.15E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	10/4/2011	1	3.24E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	10/10/2011	1	4.66E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	10/17/2011	1	2.70E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	10/24/2011	1	<LLD	2.53E+02
604	NANCY'S CREEK MARSH AREA --WP-92	11/1/2011	1	<LLD	2.70E+02
604	NANCY'S CREEK MARSH AREA --WP-92	11/8/2011	1	<LLD	2.53E+02
604	NANCY'S CREEK MARSH AREA --WP-92	11/15/2011	1	1.23E+03	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	5.75E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	11/29/2011	1	6.25E+02	

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
604	NANCY'S CREEK MARSH AREA --WP-92	12/6/2011	1	6.54E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	3.84E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	12/19/2011	1	3.95E+02	
604	NANCY'S CREEK MARSH AREA --WP-92	12/27/2011	1	3.77E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	1/4/2011	1	<LLD	2.32E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	1/13/2011	1	5.74E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	1/18/2011	1	3.44E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	1/24/2011	1	<LLD	2.34E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	2/1/2011	1	<LLD	2.36E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	2/8/2011	1	4.23E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	2/16/2011	1	<LLD	2.32E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	2/23/2011	1	<LLD	2.34E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	3/2/2011	1	<LLD	2.50E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	3/9/2011	1	<LLD	2.44E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	3/14/2011	1	4.26E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	3/21/2011	1	<LLD	2.36E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	3/30/2011	1	<LLD	2.40E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	4/6/2011	1	<LLD	2.35E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	4/11/2011	1	3.34E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	4/18/2011	1	<LLD	2.30E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	4/25/2011	1	<LLD	2.36E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	5/3/2011	1	<LLD	2.32E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	5/9/2011	1	<LLD	2.29E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	5/16/2011	1	<LLD	2.39E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
605	NANCY'S CREEK MARSH AREA -- WP-72	5/23/2011	1	<LLD	2.40E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	5/31/2011	1	<LLD	2.30E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	6/6/2011	1	<LLD	2.34E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	6/14/2011	1	<LLD	2.46E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	6/21/2011	1	<LLD	2.44E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	6/29/2011	1	<LLD	2.55E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	7/5/2011	1	<LLD	2.43E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	7/12/2011	1	<LLD	2.49E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	7/18/2011	1	<LLD	2.44E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	7/26/2011	1	2.70E+03	
605	NANCY'S CREEK MARSH AREA -- WP-72	8/2/2011	1	<LLD	2.48E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	8/10/2011	1	<LLD	2.48E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	8/15/2011	1	<LLD	2.49E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	8/22/2011	1	<LLD	2.50E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	8/30/2011	1	<LLD	2.51E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	9/6/2011	1	<LLD	2.58E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	9/13/2011	1	<LLD	2.49E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	9/21/2011	1	<LLD	2.45E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	9/28/2011	1	<LLD	2.46E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	10/4/2011	1	<LLD	2.43E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	10/10/2011	1	<LLD	2.41E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	10/17/2011	1	<LLD	2.48E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	10/24/2011	1	<LLD	2.55E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	11/1/2011	1	<LLD	2.52E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
605	NANCY'S CREEK MARSH AREA -- WP-72	11/8/2011	1	<LLD	2.54E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	<LLD	2.48E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	<LLD	2.53E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	11/29/2011	1	<LLD	2.43E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	12/6/2011	1	2.93E+02	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	<LLD	2.53E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	12/19/2011	1	<LLD	2.66E+02
605	NANCY'S CREEK MARSH AREA -- WP-72	12/27/2011	1	<LLD	2.48E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	1/4/2011	1	3.31E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	1/13/2011	1	5.92E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	1/18/2011	1	2.95E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	1/24/2011	1	3.01E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	2/1/2011	1	<LLD	2.35E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	2/8/2011	1	5.28E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	2/16/2011	1	<LLD	2.28E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	2/23/2011	1	2.49E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	3/2/2011	1	<LLD	2.41E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	3/9/2011	1	2.47E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	3/14/2011	1	7.64E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	3/21/2011	1	<LLD	2.42E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	3/30/2011	1	<LLD	2.40E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	4/6/2011	1	<LLD	2.33E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	4/11/2011	1	5.66E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	4/18/2011	1	<LLD	2.31E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
606	NANCY'S CREEK MARSH AREA -- WP-74	4/25/2011	1	<LLD	2.36E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	5/3/2011	1	<LLD	2.32E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	5/9/2011	1	<LLD	2.31E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	5/16/2011	1	<LLD	2.39E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	5/23/2011	1	<LLD	2.40E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	5/31/2011	1	3.15E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	6/6/2011	1	<LLD	2.35E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	6/14/2011	1	<LLD	2.43E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	6/21/2011	1	<LLD	2.38E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	6/29/2011	1	<LLD	2.57E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	7/5/2011	1	<LLD	2.45E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	7/12/2011	1	<LLD	2.47E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	7/18/2011	1	2.46E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	7/26/2011	1	1.01E+03	
606	NANCY'S CREEK MARSH AREA -- WP-74	8/2/2011	1	<LLD	2.47E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	8/10/2011	1	<LLD	2.48E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	8/15/2011	1	<LLD	2.44E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	8/22/2011	1	<LLD	2.51E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	8/30/2011	1	<LLD	2.47E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	9/6/2011	1	<LLD	2.45E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	9/13/2011	1	<LLD	2.49E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	9/20/2011	1	<LLD	2.48E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	9/28/2011	1	<LLD	2.72E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	10/4/2011	1	<LLD	2.43E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
606	NANCY'S CREEK MARSH AREA -- WP-74	10/10/2011	1	2.51E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	10/17/2011	1	7.95E+03	
606	NANCY'S CREEK MARSH AREA -- WP-74	10/24/2011	1	<LLD	2.48E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	11/1/2011	1	<LLD	2.52E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	11/8/2011	1	<LLD	2.53E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	<LLD	2.46E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	<LLD	2.52E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	11/29/2011	1	<LLD	2.44E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	12/6/2011	1	2.87E+02	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	<LLD	2.51E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	12/19/2011	1	<LLD	2.64E+02
606	NANCY'S CREEK MARSH AREA -- WP-74	12/27/2011	1	<LLD	2.37E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	1/4/2011	1	2.47E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	1/13/2011	1	4.51E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	1/18/2011	1	3.66E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	1/24/2011	1	2.49E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	2/1/2011	1	4.07E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	2/8/2011	1	4.05E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	2/16/2011	1	2.46E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	2/23/2011	1	3.54E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	3/2/2011	1	<LLD	2.41E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	3/9/2011	1	5.82E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	3/14/2011	1	1.10E+03	
607	NANCY'S CREEK MARSH AREA -- WP-76	3/21/2011	1	<LLD	2.37E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
607	NANCY'S CREEK MARSH AREA -- WP-76	3/30/2011	1	<LLD	2.40E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	4/6/2011	1	<LLD	2.34E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	4/11/2011	1	8.47E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	4/18/2011	1	3.36E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	4/25/2011	1	5.82E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	5/3/2011	1	<LLD	2.33E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	5/9/2011	1	1.52E+03	
607	NANCY'S CREEK MARSH AREA -- WP-76	5/16/2011	1	<LLD	2.39E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	5/23/2011	1	9.94E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	5/31/2011	1	5.58E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	6/6/2011	1	1.04E+03	
607	NANCY'S CREEK MARSH AREA -- WP-76	6/14/2011	1	<LLD	2.44E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	6/21/2011	1	<LLD	2.32E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	6/29/2011	1	2.48E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	7/5/2011	1	<LLD	2.43E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	7/12/2011	1	<LLD	2.48E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	7/18/2011	1	<LLD	2.45E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	7/26/2011	1	4.94E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	8/2/2011	1	<LLD	2.47E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	8/10/2011	1	<LLD	2.49E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	8/15/2011	1	<LLD	2.50E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	8/22/2011	1	6.91E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	8/30/2011	1	<LLD	2.47E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	9/6/2011	1	<LLD	2.47E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
607	NANCY'S CREEK MARSH AREA -- WP-76	9/13/2011	1	<LLD	2.51E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	9/20/2011	1	<LLD	2.47E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	9/28/2011	1	<LLD	2.47E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	10/4/2011	1	3.61E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	10/10/2011	1	<LLD	2.44E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	10/17/2011	1	<LLD	2.47E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	10/24/2011	1	<LLD	2.54E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	11/1/2011	1	<LLD	2.54E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	11/8/2011	1	<LLD	2.54E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	<LLD	2.46E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	<LLD	2.53E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	11/29/2011	1	<LLD	2.44E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	12/6/2011	1	3.77E+02	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	<LLD	2.51E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	12/19/2011	1	<LLD	2.65E+02
607	NANCY'S CREEK MARSH AREA -- WP-76	12/27/2011	1	<LLD	2.38E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	1/4/2011	1	2.49E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	1/13/2011	1	1.06E+03	
608	NANCY'S CREEK MARSH AREA -- WP-82	1/18/2011	1	2.61E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	1/24/2011	1	6.52E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	2/1/2011	1	4.05E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	2/8/2011	1	8.25E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	2/16/2011	1	<LLD	2.38E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	2/23/2011	1	<LLD	2.46E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
608	NANCY'S CREEK MARSH AREA -- WP-82	3/2/2011	1	2.47E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	3/9/2011	1	<LLD	2.41E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	3/14/2011	1	4.79E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	3/21/2011	1	<LLD	2.37E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	3/30/2011	1	<LLD	2.39E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	4/6/2011	1	<LLD	2.38E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	4/11/2011	1	4.78E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	4/18/2011	1	<LLD	2.29E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	4/25/2011	1	<LLD	2.36E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	5/3/2011	1	<LLD	2.32E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	5/9/2011	1	<LLD	2.29E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	5/16/2011	1	<LLD	2.39E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	5/23/2011	1	<LLD	2.38E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	5/31/2011	1	<LLD	2.43E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	6/6/2011	1	<LLD	2.37E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	6/14/2011	1	<LLD	2.44E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	6/21/2011	1	<LLD	2.42E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	6/29/2011	1	<LLD	2.46E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	7/5/2011	1	<LLD	2.44E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	7/12/2011	1	<LLD	2.42E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	7/18/2011	1	<LLD	2.45E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	7/26/2011	1	5.49E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	8/2/2011	1	<LLD	2.48E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	8/10/2011	1	<LLD	2.48E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
608	NANCY'S CREEK MARSH AREA -- WP-82	8/15/2011	1	<LLD	2.50E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	8/22/2011	1	<LLD	2.47E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	8/30/2011	1	<LLD	2.49E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	9/6/2011	1	<LLD	2.67E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	9/13/2011	1	<LLD	2.50E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	9/20/2011	1	<LLD	2.47E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	9/28/2011	1	<LLD	2.53E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	10/4/2011	1	<LLD	2.51E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	10/10/2011	1	<LLD	2.46E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	10/17/2011	1	<LLD	2.47E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	10/24/2011	1	<LLD	2.52E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	11/1/2011	1	<LLD	2.52E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	11/8/2011	1	<LLD	2.54E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	<LLD	2.46E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	2.49E+02	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/29/2011	1	<LLD	2.44E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	12/6/2011	1	1.95E+03	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	<LLD	2.51E+02
608	NANCY'S CREEK MARSH AREA -- WP-82	12/19/2011	1	1.51E+03	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/27/2011	1	<LLD	2.33E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	1/4/2011	1	2.65E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	1/13/2011	1	3.99E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	1/18/2011	1	2.43E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	1/24/2011	1	2.66E+02	

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
609	NANCY'S CREEK MARSH AREA -- WP-84	2/1/2011	1	2.47E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	2/8/2011	1	3.51E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	2/16/2011	1	<LLD	2.38E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	2/23/2011	1	<LLD	2.47E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	3/2/2011	1	<LLD	2.41E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	3/9/2011	1	<LLD	2.40E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	3/14/2011	1	<LLD	2.38E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	3/21/2011	1	<LLD	2.42E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	3/30/2011	1	<LLD	2.48E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	4/6/2011	1	5.26E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	4/11/2011	1	<LLD	2.37E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	4/18/2011	1	<LLD	2.30E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	4/25/2011	1	<LLD	2.36E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	5/3/2011	1	<LLD	2.32E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	5/9/2011	1	<LLD	2.30E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	5/16/2011	1	<LLD	2.38E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	5/23/2011	1	<LLD	2.37E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	5/31/2011	1	<LLD	2.41E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	6/6/2011	1	<LLD	2.38E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	6/14/2011	1	<LLD	2.42E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	6/21/2011	1	<LLD	2.33E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	6/29/2011	1	<LLD	2.46E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	7/5/2011	1	<LLD	2.44E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	7/12/2011	1	<LLD	2.43E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
609	NANCY'S CREEK MARSH AREA -- WP-84	7/18/2011	1	<LLD	2.46E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	7/26/2011	1	3.36E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	8/2/2011	1	<LLD	2.48E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	8/10/2011	1	<LLD	2.49E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	8/15/2011	1	<LLD	2.49E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	8/22/2011	1	<LLD	2.50E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	8/30/2011	1	<LLD	2.54E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	9/6/2011	1	<LLD	2.48E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	9/13/2011	1	<LLD	2.49E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	9/20/2011	1	<LLD	2.45E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	9/28/2011	1	<LLD	2.54E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	10/4/2011	1	<LLD	2.64E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	10/10/2011	1	<LLD	2.44E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	10/17/2011	1	<LLD	2.47E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	10/24/2011	1	<LLD	2.52E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	11/1/2011	1	<LLD	2.54E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	11/8/2011	1	<LLD	2.54E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	2.52E+02	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	<LLD	2.44E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	11/29/2011	1	<LLD	2.45E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	12/6/2011	1	<LLD	2.46E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	<LLD	2.53E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	12/19/2011	1	<LLD	2.54E+02
609	NANCY'S CREEK MARSH AREA -- WP-84	12/27/2011	1	<LLD	2.33E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
610	NANCY'S CREEK MARSH AREA -- WP-88	1/4/2011	1	2.81E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	1/13/2011	1	3.64E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	1/18/2011	1	<LLD	2.46E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	1/24/2011	1	2.83E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	2/1/2011	1	2.99E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	2/8/2011	1	2.65E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	2/16/2011	1	2.47E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	2/23/2011	1	<LLD	2.46E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	3/2/2011	1	<LLD	2.42E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	3/9/2011	1	<LLD	2.42E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	3/14/2011	1	<LLD	2.38E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	3/21/2011	1	<LLD	2.41E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	3/30/2011	1	<LLD	2.49E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	4/6/2011	1	<LLD	2.41E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	4/11/2011	1	<LLD	2.37E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	4/18/2011	1	<LLD	2.31E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	4/25/2011	1	<LLD	2.35E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	5/3/2011	1	<LLD	2.32E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	5/9/2011	1	<LLD	2.30E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	5/16/2011	1	<LLD	2.38E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	5/23/2011	1	<LLD	2.39E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	5/31/2011	1	<LLD	2.37E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	6/6/2011	1	<LLD	2.38E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	6/14/2011	1	<LLD	2.51E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
610	NANCY'S CREEK MARSH AREA -- WP-88	6/21/2011	1	<LLD	2.41E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	6/29/2011	1	<LLD	2.48E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	7/5/2011	1	<LLD	2.43E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	7/12/2011	1	<LLD	2.42E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	7/18/2011	1	<LLD	2.48E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	7/26/2011	1	3.36E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	8/2/2011	1	<LLD	2.48E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	8/10/2011	1	<LLD	2.49E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	8/15/2011	1	<LLD	2.49E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	8/22/2011	1	4.17E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	8/30/2011	1	<LLD	2.46E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	9/6/2011	1	<LLD	2.46E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	9/13/2011	1	<LLD	2.52E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	9/20/2011	1	<LLD	2.49E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	9/28/2011	1	<LLD	2.55E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	10/4/2011	1	<LLD	2.51E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	10/10/2011	1	3.41E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	10/17/2011	1	2.53E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	10/24/2011	1	<LLD	2.53E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	11/1/2011	1	<LLD	2.52E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	11/8/2011	1	<LLD	2.54E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	<LLD	2.48E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	3.22E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/29/2011	1	<LLD	2.45E+02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water
Quantity: Liters
Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		*Sample Date*	*Quantity*	*Activity*	*LLD*
610	NANCY'S CREEK MARSH AREA -- WP-88	12/6/2011	1	3.98E+02	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	<LLD	2.55E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	12/19/2011	1	<LLD	2.53E+02
610	NANCY'S CREEK MARSH AREA -- WP-88	12/27/2011	1	<LLD	2.52E+02

BSEP Radiological Environmental Monitoring
Hard-To-Detect Analysis Report

Media Type: Shoreline Sediment
Quantity: GRAMS
Concentration (Activity): pCi/gm

Sample Point		*Sample Date*	*Analysis*	*Activity*	*2 Sigma Error*	*LLD*
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	FE-55	<LLD		2.00E+01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	SR-90	<LLD		2.00E+00
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	SR-89	<LLD		2.00E+00

2011 BSEP
Radiological Environmental Monitoring
Gamma Isotopic Report

Comments

- Aquatic organism monitoring includes fish (free swimmers and bottom feeders), invertebrates (shellfish – (SH)), and Benthic organisms (BO). Invertebrates in the Gamma Isotopic data are represented by SH/BO*.

BSEP 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*
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	3421.7	PB-212	6.36E-03	2.24E-03
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	3421.7	BI-214	3.98E-02	7.15E-03
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	3421.7	K-40	4.71E-02	2.94E-02
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	3421.7	BE-7	1.15E-01	2.94E-02
200	1.0 MI WSW - VISITORS CENTER	2/14/2011	3421.7	PB-214	3.06E-02	5.04E-03
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	BE-7	1.18E-01	9.29E-02
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	K-40	3.28E-01	2.03E-01
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	I-131	1.27E-02	1.12E-02
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	PB-212	6.90E-02	2.14E-02
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	BI-214	9.00E-02	2.39E-02
200	1.0 MI WSW - VISITORS CENTER	3/25/2011	263.4	PB-214	1.56E-01	2.71E-02
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	BE-7	1.47E-01	1.15E-01
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	K-40	3.51E-01	1.98E-01
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	I-131	1.63E-02	1.09E-02
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	BI-214	4.52E-02	2.68E-02
200	1.0 MI WSW - VISITORS CENTER	4/4/2011	259	PB-214	6.19E-02	2.49E-02
200	1.0 MI WSW - VISITORS CENTER	4/11/2011	260.6	K-40	5.30E-01	1.91E-01
200	1.0 MI WSW - VISITORS CENTER	4/11/2011	260.6	BI-214	3.73E-02	2.69E-02
200	1.0 MI WSW - VISITORS CENTER	4/11/2011	260.6	BE-7	1.52E-01	7.83E-02
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	3625.2	PB-214	5.91E-02	7.37E-03
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	3625.2	BE-7	1.26E-01	4.19E-02
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	3625.2	K-40	5.60E-02	2.07E-02
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	3625.2	TL-208	1.11E-03	1.25E-03
200	1.0 MI WSW - VISITORS CENTER	5/16/2011	3625.2	BI-214	4.08E-02	7.64E-03

BSEP 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*
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	3736.3	BI-214	6.27E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	3736.3	K-40	4.93E-02	2.28E-02
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	3736.3	RA-226	4.30E-02	2.00E-02
200	1.0 MI WSW - VISITORS CENTER	8/15/2011	3736.3	BE-7	9.96E-02	3.24E-02
200	1.0 MI WSW - VISITORS CENTER	11/14/2011	3665.3	K-40	8.07E-02	2.49E-02
200	1.0 MI WSW - VISITORS CENTER	11/14/2011	3665.3	BE-7	1.23E-01	3.35E-02
201	0.5 MI NE - PMAC	2/14/2011	3600.4	BE-7	1.01E-01	3.16E-02
201	0.5 MI NE - PMAC	2/14/2011	3600.4	K-40	5.32E-02	2.26E-02
201	0.5 MI NE - PMAC	2/14/2011	3600.4	RA-226	2.26E-02	1.97E-02
201	0.5 MI NE - PMAC	2/14/2011	3600.4	PB-214	1.20E-02	3.30E-03
201	0.5 MI NE - PMAC	2/14/2011	3600.4	BI-214	8.74E-03	3.47E-03
201	0.5 MI NE - PMAC	3/25/2011	285	PB-214	2.98E-01	5.48E-02
201	0.5 MI NE - PMAC	3/25/2011	285	I-131	3.16E-02	1.50E-02
201	0.5 MI NE - PMAC	3/25/2011	285	BI-214	1.86E-01	4.62E-02
201	0.5 MI NE - PMAC	3/25/2011	285	RA-226	3.30E-01	1.69E-01
201	0.5 MI NE - PMAC	3/25/2011	285	BE-7	2.34E-01	1.18E-01
201	0.5 MI NE - PMAC	3/25/2011	285	K-40	3.38E-01	1.99E-01
201	0.5 MI NE - PMAC	3/25/2011	285	PB-212	3.46E-02	1.79E-02
201	0.5 MI NE - PMAC	4/4/2011	279.9	BI-214	5.37E-02	2.45E-02
201	0.5 MI NE - PMAC	4/4/2011	279.9	K-40	4.75E-01	1.93E-01
201	0.5 MI NE - PMAC	4/4/2011	279.9	BE-7	1.81E-01	1.06E-01
201	0.5 MI NE - PMAC	4/4/2011	279.9	PB-212	2.71E-02	1.54E-02
201	0.5 MI NE - PMAC	4/4/2011	279.9	PB-214	6.97E-02	2.34E-02
201	0.5 MI NE - PMAC	4/11/2011	281.9	PB-214	6.63E-02	3.43E-02

BSEP 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*
201	0.5 MI NE - PMAC	4/11/2011	281.9	K-40	5.01E-01	2.18E-01
201	0.5 MI NE - PMAC	4/11/2011	281.9	BE-7	1.77E-01	9.36E-02
201	0.5 MI NE - PMAC	5/16/2011	3727.5	BI-214	3.92E-03	2.10E-03
201	0.5 MI NE - PMAC	5/16/2011	3727.5	K-40	6.28E-02	2.55E-02
201	0.5 MI NE - PMAC	5/16/2011	3727.5	CS-137	1.26E-03	1.03E-03
201	0.5 MI NE - PMAC	5/16/2011	3727.5	BE-7	1.19E-01	3.97E-02
201	0.5 MI NE - PMAC	8/15/2011	3810.5	RA-226	2.17E-02	2.01E-02
201	0.5 MI NE - PMAC	8/15/2011	3810.5	TH-234	2.43E-02	2.16E-02
201	0.5 MI NE - PMAC	8/15/2011	3810.5	PB-214	1.84E-02	3.81E-03
201	0.5 MI NE - PMAC	8/15/2011	3810.5	PB-212	3.34E-03	1.60E-03
201	0.5 MI NE - PMAC	8/15/2011	3810.5	K-40	3.54E-02	2.10E-02
201	0.5 MI NE - PMAC	8/15/2011	3810.5	BE-7	1.17E-01	3.08E-02
201	0.5 MI NE - PMAC	8/15/2011	3810.5	BI-214	1.61E-02	4.18E-03
201	0.5 MI NE - PMAC	11/14/2011	3835.4	BE-7	1.24E-01	2.93E-02
201	0.5 MI NE - PMAC	11/14/2011	3835.4	K-40	1.76E-02	1.68E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/14/2011	3548.9	BI-214	5.19E-03	3.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/14/2011	3548.9	BE-7	1.41E-01	2.88E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	2/14/2011	3548.9	K-40	5.97E-02	1.88E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/25/2011	277.2	BE-7	1.45E-01	1.23E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/25/2011	277.2	TH-234	3.07E-01	2.15E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/25/2011	277.2	PB-214	4.53E-02	2.21E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/25/2011	277.2	K-40	7.47E-01	2.22E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	3/25/2011	277.2	BI-214	2.64E-02	2.48E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	PB-214	1.22E-01	3.03E-02

BSEP 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*
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	BI-214	1.08E-01	3.49E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	PB-212	4.19E-02	1.57E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/4/2011	272.3	K-40	6.58E-01	2.34E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/11/2011	274.8	K-40	6.49E-01	2.47E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/11/2011	274.8	BE-7	1.91E-01	1.34E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/11/2011	274.8	BI-214	6.95E-02	2.53E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	BI-214	7.63E-02	3.36E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	RA-226	3.50E-01	1.90E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	K-40	9.15E-01	2.49E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	4/18/2011	275.6	BE-7	1.33E-01	1.18E-01
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/16/2011	3605.6	K-40	5.25E-02	2.01E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/16/2011	3605.6	RA-226	2.15E-02	2.23E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	5/16/2011	3605.6	BE-7	1.70E-01	3.28E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	3728.8	PB-214	9.36E-03	3.23E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	3728.8	PB-212	2.35E-03	1.69E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	3728.8	K-40	4.35E-02	1.80E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	3728.8	RA-226	3.83E-02	1.93E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	8/15/2011	3728.8	BE-7	1.27E-01	3.25E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/14/2011	3735.2	BE-7	1.43E-01	2.94E-02
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/14/2011	3735.2	BI-214	2.83E-03	1.73E-03
202	1.0 MI S - SUBSTATION ON CONSTRN RD	11/14/2011	3735.2	K-40	3.64E-02	2.24E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2011	3547.5	BE-7	8.49E-02	2.39E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2011	3547.5	TH-234	2.26E-02	2.07E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	K-40	4.64E-01	1.93E-01

BSEP 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*
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	PB-214	9.56E-02	2.96E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	BI-214	4.37E-02	3.01E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	PB-212	3.13E-02	1.37E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	BE-7	1.83E-01	1.03E-01
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/25/2011	287.1	RA-226	2.25E-01	2.00E-01
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	PB-212	4.00E-02	1.71E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	RA-226	3.22E-01	2.18E-01
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	BE-7	2.38E-01	9.21E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	PB-214	1.00E-01	2.86E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	BI-214	8.24E-02	3.22E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	K-40	3.33E-01	1.45E-01
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2011	282.3	TL-208	1.77E-02	1.18E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	PB-214	7.71E-02	2.27E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	BI-214	5.08E-02	1.94E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	BE-7	1.76E-01	7.30E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2011	284.1	K-40	4.86E-01	1.74E-01
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	3781.6	BI-214	4.13E-03	2.20E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	3781.6	K-40	5.23E-02	2.27E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	3781.6	PB-214	4.36E-03	2.62E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2011	3781.6	BE-7	1.25E-01	3.15E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	3807.7	K-40	6.71E-02	2.22E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	3807.7	BE-7	1.16E-01	3.28E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	3807.7	BI-214	1.39E-02	4.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	3807.7	PB-212	2.31E-03	2.18E-03

BSEP 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*
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2011	3807.7	PB-214	1.06E-02	3.43E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2011	3746	K-40	3.76E-01	1.92E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2011	3746	BE-7	8.50E-02	2.81E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2011	3746	TH-234	2.76E-02	1.62E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	3478.1	PB-212	3.67E-03	1.46E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	3478.1	PB-214	1.36E-02	4.10E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	3478.1	BI-214	1.22E-02	4.14E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	3478.1	K-40	5.04E-02	1.97E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2011	3478.1	BE-7	1.13E-01	2.94E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/25/2011	271.3	PB-212	2.22E-02	1.17E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/25/2011	271.3	K-40	8.11E-01	2.34E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/25/2011	271.3	BE-7	2.24E-01	1.07E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/25/2011	271.3	BI-214	4.35E-02	1.81E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/25/2011	271.3	I-131	2.44E-02	1.65E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2011	264.5	BE-7	1.93E-01	7.71E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2011	264.5	I-131	2.93E-02	2.13E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2011	264.5	K-40	5.64E-01	2.18E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	BI-214	6.25E-02	2.45E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	PB-214	5.16E-02	2.67E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	BE-7	2.05E-01	1.11E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	RA-226	2.01E-01	1.54E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2011	267.9	K-40	4.47E-01	1.73E-01
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2011	3242.9	K-40	1.04E-01	3.01E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2011	3242.9	BE-7	1.52E-01	3.81E-02

BSEP 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*
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	3621.5	BI-214	5.34E-03	3.66E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	3621.5	K-40	3.95E-02	1.95E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	3621.5	BE-7	1.17E-01	2.94E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2011	3621.5	PB-214	6.37E-03	2.88E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2011	3650.8	K-40	8.17E-02	2.51E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2011	3650.8	PB-214	4.33E-03	3.11E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2011	3650.8	BE-7	1.46E-01	3.43E-02
205	0.6 MI SSE - SPOIL POND	2/14/2011	3554.3	BI-214	8.91E-03	3.33E-03
205	0.6 MI SSE - SPOIL POND	2/14/2011	3554.3	K-40	3.07E-02	1.50E-02
205	0.6 MI SSE - SPOIL POND	2/14/2011	3554.3	PB-214	1.09E-02	3.21E-03
205	0.6 MI SSE - SPOIL POND	2/14/2011	3554.3	BE-7	1.42E-01	3.25E-02
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	PB-212	1.45E-02	1.30E-02
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	TH-234	3.12E-01	2.10E-01
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	BI-214	1.50E-02	1.42E-02
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	BE-7	1.63E-01	9.04E-02
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	I-131	2.45E-02	1.40E-02
205	0.6 MI SSE - SPOIL POND	3/25/2011	278.4	K-40	3.61E-01	1.24E-01
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	BI-214	7.62E-02	2.30E-02
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	I-131	2.70E-02	1.25E-02
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	BE-7	1.73E-01	8.26E-02
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	K-40	5.53E-01	1.90E-01
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	PB-214	9.05E-02	3.10E-02
205	0.6 MI SSE - SPOIL POND	4/4/2011	272.7	PB-212	2.23E-02	1.19E-02
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	PB-212	2.38E-02	2.01E-02

BSEP 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*
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	BI-214	1.15E-01	3.11E-02
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	K-40	4.87E-01	2.22E-01
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	BE-7	2.05E-01	1.07E-01
205	0.6 MI SSE - SPOIL POND	4/11/2011	276.9	PB-214	1.01E-01	3.50E-02
205	0.6 MI SSE - SPOIL POND	5/16/2011	3634.7	TL-208	9.56E-04	8.92E-04
205	0.6 MI SSE - SPOIL POND	5/16/2011	3634.7	K-40	3.72E-02	2.13E-02
205	0.6 MI SSE - SPOIL POND	5/16/2011	3634.7	BE-7	1.56E-01	3.21E-02
205	0.6 MI SSE - SPOIL POND	5/16/2011	3634.7	TH-234	3.25E-02	3.00E-02
205	0.6 MI SSE - SPOIL POND	8/15/2011	3702.2	BI-214	5.01E-03	2.83E-03
205	0.6 MI SSE - SPOIL POND	8/15/2011	3702.2	PB-214	7.24E-03	2.99E-03
205	0.6 MI SSE - SPOIL POND	8/15/2011	3702.2	PB-212	2.93E-03	1.31E-03
205	0.6 MI SSE - SPOIL POND	8/15/2011	3702.2	BE-7	1.23E-01	3.29E-02
205	0.6 MI SSE - SPOIL POND	11/14/2011	3633.8	K-40	4.19E-02	2.02E-02
205	0.6 MI SSE - SPOIL POND	11/14/2011	3633.8	BE-7	1.39E-01	3.33E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	3629.6	BI-214	2.14E-03	1.62E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	3629.6	RA-226	3.62E-02	2.32E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	3629.6	PB-212	2.45E-03	1.30E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	3629.6	BE-7	1.30E-01	2.50E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	2/14/2011	3629.6	K-40	6.01E-02	1.87E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/25/2011	283.4	BE-7	1.73E-01	8.10E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/25/2011	283.4	K-40	4.83E-01	1.76E-01
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/25/2011	283.4	I-131	2.38E-02	1.48E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/25/2011	283.4	RA-226	3.17E-01	2.08E-01
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	3/25/2011	283.4	TH-234	5.06E-01	2.63E-01

BSEP 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*
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	K-40	4.85E-01	2.25E-01
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	TL-208	1.79E-02	1.58E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	BE-7	2.11E-01	9.42E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	BI-214	9.68E-02	3.16E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	PB-214	1.04E-01	3.33E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/4/2011	280.1	PB-212	3.14E-02	1.78E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/11/2011	285.3	PB-214	7.52E-02	2.59E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/11/2011	285.3	PB-212	1.65E-02	1.42E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/11/2011	285.3	BE-7	1.42E-01	1.35E-01
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	4/11/2011	285.3	BI-214	9.78E-02	2.71E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/16/2011	3725.5	K-40	5.63E-02	2.05E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/16/2011	3725.5	BE-7	1.18E-01	2.91E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	5/16/2011	3725.5	RA-226	4.46E-02	3.47E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/15/2011	3597.6	BE-7	1.01E-01	2.95E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/15/2011	3597.6	BI-214	3.69E-03	1.68E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	8/15/2011	3597.6	K-40	4.76E-02	2.26E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/14/2011	3489.7	BI-214	3.80E-03	1.74E-03
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/14/2011	3489.7	BE-7	1.32E-01	2.89E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/14/2011	3489.7	K-40	6.19E-02	2.88E-02
206	11.3 MI NW - BRUNSWICK COUNTY COMPLEX (CONTROL)	11/14/2011	3489.7	TL-208	2.50E-03	1.02E-03

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	K-40	2.98E+00	4.03E-01
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	TL-208	2.77E-02	1.57E-02
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	PB-212	6.90E-02	2.74E-02
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	BI-214	1.07E-01	3.66E-02
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	PB-214	1.07E-01	3.34E-02
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	RA-226	5.50E-01	3.62E-01
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	TH-234	5.04E-01	4.95E-01
800	0.7 MI NE - INTAKE CANAL	1/3/2011	446.7	BE-7	2.40E+00	3.13E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2011	513.7	K-40	3.27E+00	4.10E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2011	513.7	BE-7	2.72E+00	3.08E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2011	513.7	TL-208	1.74E-02	1.41E-02
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	RA-226	5.77E-01	3.76E-01
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	PB-212	6.20E-02	2.76E-02
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	BI-214	9.25E-02	3.96E-02
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	PB-214	6.06E-02	3.44E-02
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	BE-7	2.81E+00	3.44E-01
800	0.7 MI NE - INTAKE CANAL	3/1/2011	436.7	K-40	3.11E+00	4.09E-01
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	BE-7	1.39E+00	2.25E-01
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	TH-234	5.01E-01	3.11E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	K-40	3.12E+00	3.88E-01
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	TL-208	2.16E-02	1.31E-02
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	I-131	1.39E-01	2.84E-02
800	0.7 MI NE - INTAKE CANAL	4/1/2011	505.6	BI-214	3.57E-02	2.44E-02
800	0.7 MI NE - INTAKE CANAL	5/2/2011	527.4	PB-212	3.79E-02	1.90E-02
800	0.7 MI NE - INTAKE CANAL	5/2/2011	527.4	K-40	3.91E+00	4.44E-01
800	0.7 MI NE - INTAKE CANAL	5/2/2011	527.4	BE-7	7.21E-01	1.46E-01
800	0.7 MI NE - INTAKE CANAL	5/2/2011	527.4	BI-214	5.75E-02	2.56E-02
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	TH-234	6.69E-01	4.88E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	PB-212	7.16E-02	2.25E-02
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	RA-226	5.60E-01	2.95E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	BI-214	9.17E-02	2.89E-02
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	TL-208	2.85E-02	1.28E-02
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	K-40	3.22E+00	3.97E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	BE-7	5.36E-01	1.22E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2011	518.5	PB-214	7.47E-02	2.92E-02
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	PB-214	4.32E-02	2.60E-02
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	TL-208	1.40E-02	1.18E-02
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	K-40	3.75E+00	4.71E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	BE-7	9.21E-01	1.78E-01
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	BI-214	7.17E-02	2.63E-02
800	0.7 MI NE - INTAKE CANAL	7/1/2011	482.6	RA-226	5.26E-01	3.38E-01
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	PB-214	3.02E-02	2.39E-02
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	PB-212	4.50E-02	1.76E-02
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	TL-208	1.53E-02	8.75E-03
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	K-40	2.39E+00	3.08E-01
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	BE-7	1.28E+00	1.75E-01
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	RA-226	4.23E-01	2.37E-01
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	BI-214	2.64E-02	2.08E-02
800	0.7 MI NE - INTAKE CANAL	8/1/2011	642.3	TH-234	2.74E-01	2.23E-01
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	BE-7	1.19E+00	1.95E-01
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	K-40	3.00E+00	3.83E-01
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	PB-212	2.63E-02	1.67E-02
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	BI-214	5.24E-02	2.27E-02
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	PB-214	5.03E-02	2.52E-02
800	0.7 MI NE - INTAKE CANAL	9/1/2011	547.3	RA-226	5.39E-01	1.78E-01
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	TH-234	4.96E-01	3.77E-01
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	BE-7	1.80E+00	2.34E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	PB-212	4.58E-02	1.79E-02
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	PB-214	5.78E-02	2.06E-02
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	RA-226	2.86E-01	2.58E-01
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	BI-214	5.59E-02	2.33E-02
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	TL-208	2.39E-02	1.33E-02
800	0.7 MI NE - INTAKE CANAL	10/3/2011	548.2	K-40	2.78E+00	3.52E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2011	501.5	K-40	3.29E+00	4.16E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2011	501.5	BE-7	1.40E+00	2.18E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2011	501.5	PB-212	3.35E-02	2.30E-02
800	0.7 MI NE - INTAKE CANAL	11/1/2011	501.5	BI-214	3.75E-02	2.79E-02
800	0.7 MI NE - INTAKE CANAL	11/1/2011	501.5	TL-208	2.43E-02	1.68E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	BI-214	9.01E-02	4.42E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	PB-214	6.19E-02	3.68E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	RA-226	9.30E-01	3.33E-01
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	K-40	3.02E+00	4.13E-01
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	BE-7	1.55E+00	2.43E-01
800	0.7 MI NE - INTAKE CANAL	12/1/2011	385.5	PB-212	5.46E-02	2.39E-02
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	K-40	2.97E+00	4.04E-01
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	PB-212	7.16E-02	3.62E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	BE-7	1.06E+00	1.96E-01
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	BI-214	1.37E-01	3.92E-02
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	PB-214	1.04E-01	3.96E-02
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	AC-228	6.88E-02	5.11E-02
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	TL-208	3.05E-02	1.43E-02
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	TH-234	8.18E-01	4.72E-01
801	0.8 MI SW - DISCHARGE CANAL	1/3/2011	425.7	RA-226	4.43E-01	2.96E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	PB-212	5.41E-02	1.99E-02
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	RA-226	4.83E-01	2.36E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	TH-234	4.78E-01	3.66E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	BI-214	9.02E-02	3.09E-02
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	TL-208	2.07E-02	1.53E-02
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	K-40	2.14E+00	2.97E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	BE-7	2.05E+00	2.58E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2011	537	PB-214	5.52E-02	3.45E-02
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	TH-234	4.59E-01	3.53E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	BE-7	1.15E+00	1.89E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	TL-208	4.13E-02	1.38E-02
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	PB-212	8.37E-02	1.88E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	BI-214	9.45E-02	2.88E-02
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	RA-226	6.39E-01	2.66E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	PB-214	6.52E-02	3.19E-02
801	0.8 MI SW - DISCHARGE CANAL	3/1/2011	495.8	K-40	2.40E+00	3.59E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	TH-234	5.50E-01	2.84E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	CS-134	1.42E-02	9.54E-03
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	RA-226	6.62E-01	2.41E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	TL-208	1.67E-02	1.21E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	PB-214	5.69E-02	2.82E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	BI-214	4.15E-02	2.38E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	PB-212	3.84E-02	1.64E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	I-131	2.20E-01	3.04E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	K-40	2.74E+00	3.28E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	CS-137	1.19E-02	9.57E-03
801	0.8 MI SW - DISCHARGE CANAL	4/1/2011	502.4	BE-7	2.10E+00	2.49E-01
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	PB-214	5.45E-02	2.48E-02
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	PB-212	7.01E-02	2.11E-02
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	TL-208	3.35E-02	1.46E-02
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	BE-7	6.55E-01	1.33E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	RA-226	4.18E-01	1.98E-01
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	K-40	3.34E+00	3.86E-01
801	0.8 MI SW - DISCHARGE CANAL	5/2/2011	563.9	BI-214	4.30E-02	2.49E-02
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	BE-7	7.51E-01	1.82E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	K-40	4.09E+00	4.82E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	TL-208	5.41E-02	1.81E-02
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	PB-212	1.05E-01	3.36E-02
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	BI-214	8.15E-02	3.22E-02
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	PB-214	4.44E-02	2.45E-02
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	RA-226	5.10E-01	3.13E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2011	462.3	TH-234	8.27E-01	4.33E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2011	520.7	BE-7	7.90E-01	1.58E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2011	520.7	RA-226	6.61E-01	3.53E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2011	520.7	PB-214	4.50E-02	2.70E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2011	520.7	BI-214	6.20E-02	2.36E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2011	520.7	K-40	4.14E+00	4.78E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	RA-226	6.89E-01	2.90E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	PB-212	3.38E-02	2.44E-02
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	K-40	2.87E+00	3.53E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	BI-214	3.59E-02	2.42E-02
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	BE-7	1.02E+00	1.61E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	TH-234	5.36E-01	2.81E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2011	616.4	TL-208	2.16E-02	1.26E-02
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	BE-7	1.26E+00	1.85E-01
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	TH-234	6.50E-01	3.14E-01
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	RA-226	4.10E-01	3.12E-01
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	PB-214	3.26E-02	2.83E-02
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	BI-214	3.84E-02	2.48E-02
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	PB-212	2.66E-02	1.77E-02
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	TL-208	1.49E-02	9.43E-03
801	0.8 MI SW - DISCHARGE CANAL	9/1/2011	521.8	K-40	2.48E+00	3.23E-01
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	TL-208	3.06E-02	1.24E-02
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	K-40	2.52E+00	3.59E-01
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	PB-212	6.78E-02	2.34E-02
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	PB-214	8.67E-02	2.81E-02
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	BI-214	7.44E-02	2.47E-02
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	TH-234	7.29E-01	3.94E-01
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	BE-7	8.71E-01	1.49E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
801	0.8 MI SW - DISCHARGE CANAL	10/3/2011	527.3	RA-226	5.00E-01	3.32E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	BE-7	1.26E+00	2.01E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	K-40	2.68E+00	3.95E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	RA-226	4.09E-01	2.49E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	TL-208	2.03E-02	1.31E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	PB-212	2.92E-02	2.64E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2011	516.7	BI-214	3.57E-02	2.74E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2011	417.4	RA-226	7.62E-01	3.62E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2011	417.4	PB-212	2.79E-02	1.97E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2011	417.4	K-40	2.92E+00	4.36E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2011	417.4	BE-7	1.01E+00	2.03E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2011	417.4	TH-234	6.68E-01	3.92E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	PB-214	1.06E-01	4.02E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	BE-7	2.68E+00	3.11E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	K-40	3.52E+00	4.36E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	TL-208	3.88E-02	1.93E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	TH-234	6.05E-01	5.03E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	PB-212	6.88E-02	3.08E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	BI-214	1.26E-01	3.54E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	RA-226	6.25E-01	3.18E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/3/2011	465.1	AC-228	1.69E-01	6.01E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	BI-214	7.63E-02	2.74E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	PB-212	7.62E-02	3.33E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	RA-226	4.43E-01	3.75E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	K-40	3.35E+00	4.10E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	BE-7	2.36E+00	2.83E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2011	516.3	AC-228	1.81E-01	4.75E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	BI-214	9.18E-02	3.60E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	PB-214	8.43E-02	3.18E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	PB-212	3.07E-02	2.41E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	TL-208	3.82E-02	1.56E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	BE-7	2.62E+00	3.23E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2011	506.4	K-40	3.10E+00	3.93E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	CS-137	3.62E-02	1.86E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	RA-226	5.74E-01	2.89E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	PB-212	3.20E-02	1.80E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	TL-208	1.71E-02	1.44E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	PB-214	9.02E-02	2.95E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	BI-214	1.09E-01	2.66E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	I-131	2.87E-01	3.78E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	BE-7	2.42E+00	2.78E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	CS-134	1.64E-02	1.40E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	K-40	2.09E+00	3.11E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2011	500.1	TH-234	4.21E-01	3.44E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	TH-234	3.77E-01	2.28E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	CS-137	2.48E-02	1.04E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	I-131	9.16E-03	8.25E-03
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	K-40	2.36E+00	2.65E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	RA-226	5.75E-01	2.19E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	PB-214	4.19E-02	1.79E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	TL-208	2.17E-02	9.28E-03
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	BI-214	3.83E-02	1.77E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	PB-212	3.38E-02	1.48E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/2/2011	769.5	BE-7	5.00E-01	9.18E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	PB-212	9.38E-02	2.60E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	TL-208	4.18E-02	1.52E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	K-40	2.69E+00	3.56E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	BI-214	5.60E-02	2.63E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	PB-214	3.79E-02	2.81E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	BE-7	6.21E-01	1.28E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2011	536.8	RA-226	4.99E-01	2.77E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	PB-214	8.87E-02	2.76E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	BI-214	1.07E-01	3.08E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	K-40	3.28E+00	4.18E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	PB-212	4.03E-02	1.79E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	RA-226	5.67E-01	2.85E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2011	512.8	BE-7	9.47E-01	1.73E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	K-40	1.90E+00	2.84E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	CS-137	3.29E-02	1.79E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	TL-208	2.29E-02	1.23E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	PB-212	4.47E-02	2.29E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	BI-214	1.71E-01	3.51E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	RA-226	7.82E-01	3.37E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	BE-7	2.46E+00	2.98E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2011	499.3	PB-214	1.51E-01	3.23E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	BE-7	3.12E+00	3.45E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	RA-226	5.78E-01	2.64E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	PB-214	9.23E-02	2.97E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	BI-214	8.40E-02	2.92E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	PB-212	3.90E-02	2.68E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	CS-137	2.76E-02	1.03E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	K-40	2.61E+00	3.56E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	AC-228	1.12E-01	4.20E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/1/2011	538.1	TH-234	5.36E-01	3.62E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	BI-214	9.73E-02	3.77E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	TH-234	5.19E-01	4.52E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	RA-226	6.13E-01	2.67E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	BE-7	1.93E+00	2.55E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	K-40	2.39E+00	3.50E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	CS-137	1.26E-02	1.02E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	PB-214	7.38E-02	2.77E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	PB-212	3.73E-02	2.36E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/3/2011	448.1	TL-208	1.56E-02	1.26E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	BI-214	7.93E-02	2.83E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	K-40	2.48E+00	3.37E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	RA-226	2.90E-01	2.33E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	BE-7	1.83E+00	2.46E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	PB-212	4.35E-02	1.98E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2011	540.5	PB-214	8.00E-02	3.11E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	TL-208	2.48E-02	1.68E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	K-40	1.96E+00	2.98E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	BE-7	1.99E+00	2.68E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	PB-212	4.73E-02	2.52E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	AC-228	1.09E-01	5.58E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	RA-226	6.04E-01	2.87E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	PB-214	7.68E-02	3.68E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2011	425.2	BI-214	7.56E-02	3.26E-02
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	K-40	2.22E+00	3.44E-01
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	RA-226	4.54E-01	3.37E-01
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	PB-214	8.59E-02	3.88E-02
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	BE-7	2.67E+00	3.35E-01
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	PB-212	3.02E-02	2.44E-02
803	0.6 MI SSE - SPOIL POND	1/3/2011	426.5	BI-214	1.14E-01	3.59E-02
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	BE-7	3.55E+00	3.79E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	TH-234	8.07E-01	3.87E-01
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	RA-226	4.52E-01	2.52E-01
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	K-40	2.73E+00	3.63E-01
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	TL-208	1.49E-02	1.07E-02
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	PB-212	5.37E-02	2.02E-02
803	0.6 MI SSE - SPOIL POND	2/1/2011	518.3	BI-214	4.89E-02	2.13E-02
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	BI-214	9.63E-02	3.04E-02
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	TH-234	5.15E-01	3.50E-01
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	PB-214	5.05E-02	2.98E-02
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	PB-212	4.73E-02	2.34E-02
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	TL-208	2.87E-02	1.41E-02
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	K-40	2.22E+00	3.43E-01
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	BE-7	3.08E+00	3.34E-01
803	0.6 MI SSE - SPOIL POND	3/1/2011	488.1	RA-226	3.85E-01	2.90E-01
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	I-131	2.05E-01	3.05E-02
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	CS-134	2.60E-02	1.80E-02
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	BE-7	3.14E+00	3.29E-01
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	K-40	2.86E+00	3.30E-01
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	CS-137	2.48E-02	1.14E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	TL-208	1.61E-02	1.17E-02
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	PB-212	2.90E-02	1.97E-02
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	TH-234	3.24E-01	3.05E-01
803	0.6 MI SSE - SPOIL POND	4/1/2011	544.7	PB-214	5.15E-02	2.14E-02
803	0.6 MI SSE - SPOIL POND	5/2/2011	575.1	PB-214	3.69E-02	2.01E-02
803	0.6 MI SSE - SPOIL POND	5/2/2011	575.1	BE-7	5.77E-01	1.24E-01
803	0.6 MI SSE - SPOIL POND	5/2/2011	575.1	PB-212	3.68E-02	2.13E-02
803	0.6 MI SSE - SPOIL POND	5/2/2011	575.1	K-40	3.65E+00	4.31E-01
803	0.6 MI SSE - SPOIL POND	5/2/2011	575.1	TH-234	5.33E-01	4.01E-01
803	0.6 MI SSE - SPOIL POND	6/1/2011	518.9	PB-212	3.69E-02	2.30E-02
803	0.6 MI SSE - SPOIL POND	6/1/2011	518.9	TL-208	1.96E-02	1.26E-02
803	0.6 MI SSE - SPOIL POND	6/1/2011	518.9	K-40	3.10E+00	3.88E-01
803	0.6 MI SSE - SPOIL POND	6/1/2011	518.9	BE-7	4.70E-01	1.47E-01
803	0.6 MI SSE - SPOIL POND	7/1/2011	508.5	BI-214	5.58E-02	2.93E-02
803	0.6 MI SSE - SPOIL POND	7/1/2011	508.5	K-40	3.40E+00	4.20E-01
803	0.6 MI SSE - SPOIL POND	7/1/2011	508.5	BE-7	8.15E-01	1.66E-01
803	0.6 MI SSE - SPOIL POND	8/1/2011	622.8	BI-214	5.88E-02	2.05E-02
803	0.6 MI SSE - SPOIL POND	8/1/2011	622.8	PB-212	2.41E-02	1.67E-02
803	0.6 MI SSE - SPOIL POND	8/1/2011	622.8	BE-7	1.49E+00	2.03E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
803	0.6 MI SSE - SPOIL POND	8/1/2011	622.8	K-40	2.52E+00	3.19E-01
803	0.6 MI SSE - SPOIL POND	8/1/2011	622.8	PB-214	6.63E-02	2.53E-02
803	0.6 MI SSE - SPOIL POND	9/1/2011	475.9	PB-214	3.72E-02	2.47E-02
803	0.6 MI SSE - SPOIL POND	9/1/2011	475.9	BE-7	1.92E+00	2.40E-01
803	0.6 MI SSE - SPOIL POND	9/1/2011	475.9	K-40	3.46E+00	4.37E-01
803	0.6 MI SSE - SPOIL POND	9/1/2011	475.9	BI-214	5.57E-02	2.92E-02
803	0.6 MI SSE - SPOIL POND	9/1/2011	475.9	TL-208	2.01E-02	1.40E-02
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	BI-214	1.08E-01	3.47E-02
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	PB-214	7.13E-02	2.67E-02
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	RA-226	6.41E-01	3.92E-01
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	TH-234	5.70E-01	3.58E-01
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	PB-212	9.15E-02	3.12E-02
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	BE-7	2.57E+00	3.25E-01
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	K-40	3.29E+00	4.37E-01
803	0.6 MI SSE - SPOIL POND	10/3/2011	423	TL-208	3.53E-02	1.56E-02
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	BI-214	6.21E-02	2.75E-02
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	TH-234	6.80E-01	5.50E-01
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	RA-226	5.99E-01	2.70E-01
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	PB-212	6.53E-02	2.96E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	TL-208	2.76E-02	1.70E-02
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	K-40	2.68E+00	4.00E-01
803	0.6 MI SSE - SPOIL POND	11/1/2011	414	BE-7	1.94E+00	2.78E-01
803	0.6 MI SSE - SPOIL POND	12/1/2011	515.5	BI-214	2.30E-02	2.14E-02
803	0.6 MI SSE - SPOIL POND	12/1/2011	515.5	K-40	2.27E+00	3.32E-01
803	0.6 MI SSE - SPOIL POND	12/1/2011	515.5	BE-7	1.89E+00	2.55E-01
803	0.6 MI SSE - SPOIL POND	12/1/2011	515.5	RA-226	4.58E-01	2.30E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	BI-214	4.98E-02	3.11E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	BE-7	2.16E+00	2.84E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	K-40	2.57E+00	3.63E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	TL-208	2.35E-02	1.79E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	RA-226	2.87E-01	2.39E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	PB-212	7.64E-02	2.56E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/3/2011	461.7	PB-214	4.67E-02	3.25E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	K-40	2.81E+00	3.82E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	BE-7	2.22E+00	2.71E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	TL-208	2.58E-02	1.57E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	PB-212	6.47E-02	2.33E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	BI-214	8.61E-02	3.35E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2011	510.1	RA-226	3.51E-01	2.58E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	BE-7	3.10E+00	3.63E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	K-40	2.62E+00	4.05E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	TL-208	2.85E-02	1.48E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	PB-212	9.22E-02	2.75E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	BI-214	9.09E-02	2.91E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	PB-214	4.63E-02	3.69E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2011	429.5	RA-226	6.99E-01	3.59E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	CS-137	1.60E-02	9.48E-03
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	BE-7	1.50E+00	1.99E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	RA-226	4.05E-01	2.10E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	PB-214	5.07E-02	2.29E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	BI-214	7.16E-02	3.29E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	TL-208	1.91E-02	1.01E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	I-131	1.69E-01	2.55E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	K-40	2.46E+00	3.10E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2011	607.1	PB-212	4.08E-02	2.17E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	TL-208	1.63E-02	1.25E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	RA-226	3.95E-01	2.02E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	BE-7	5.61E-01	1.17E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	K-40	3.02E+00	3.67E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	PB-212	6.54E-02	1.87E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	BI-214	3.47E-02	2.17E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/2/2011	586.1	PB-214	3.40E-02	2.24E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	K-40	2.85E+00	3.74E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	TH-234	7.26E-01	4.57E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	RA-226	4.43E-01	2.29E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	PB-214	5.78E-02	2.31E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	BI-214	4.84E-02	2.28E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	PB-212	7.58E-02	2.06E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	BI-212	8.07E-02	7.33E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	TL-208	3.89E-02	1.04E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2011	546.7	BE-7	3.40E-01	1.08E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	RA-226	4.99E-01	2.78E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	PB-214	5.31E-02	2.71E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	BI-214	5.13E-02	2.28E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	PB-212	2.53E-02	2.37E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	K-40	3.02E+00	3.74E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	BE-7	7.54E-01	1.74E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2011	507.3	TH-234	3.41E-01	3.04E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	PB-214	8.30E-02	2.56E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	TL-208	2.17E-02	1.32E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	K-40	1.73E+00	2.62E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	TH-234	2.71E-01	1.90E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	BE-7	1.17E+00	1.79E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	BI-214	8.45E-02	2.21E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	RA-226	3.23E-01	1.75E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2011	658.3	PB-212	3.10E-02	1.46E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	BI-214	4.54E-02	2.35E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	BE-7	1.93E+00	2.43E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	PB-212	2.08E-02	1.63E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	PB-214	4.76E-02	2.69E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	RA-226	4.37E-01	2.04E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	TH-234	2.91E-01	2.83E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2011	611.5	K-40	2.69E+00	3.54E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	TH-234	5.94E-01	4.10E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	RA-226	5.44E-01	2.55E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	PB-214	9.57E-02	3.30E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	BI-214	7.94E-02	2.69E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	PB-212	4.78E-02	2.37E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	TL-208	1.74E-02	1.19E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	BE-7	9.50E-01	1.63E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2011	471.7	K-40	2.90E+00	3.72E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	RA-226	7.69E-01	2.97E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	TH-234	6.02E-01	3.99E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	PB-214	8.40E-02	2.76E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	BI-214	7.94E-02	2.89E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	PB-212	5.59E-02	2.24E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	TL-208	2.99E-02	1.84E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	BE-7	7.03E-01	1.56E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2011	494.1	K-40	2.74E+00	3.53E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	TH-234	4.79E-01	3.23E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	BE-7	1.36E+00	2.06E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	K-40	2.53E+00	3.61E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	PB-212	2.48E-02	1.98E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	PB-214	4.18E-02	2.99E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

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

Media: WAX MYRTLE

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2011	469.9	RA-226	6.33E-01	3.08E-01

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Fish and Invertebrates
Quantity: GRAMS (wet)
Concentration (Activity): pCi/gm wet

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/19/2011	885.2	PB-214	1.15E-01	4.51E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/19/2011	885.2	K-40	4.38E+00	6.20E-01
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/19/2011	885.2	RA-226	2.65E-01	3.33E-01
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/19/2011	885.2	BI-214	6.67E-02	4.44E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/25/2011	602.2	BI-214	9.91E-02	4.71E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/25/2011	602.2	K-40	4.80E+00	8.27E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/19/2011	785.2	TL-208	1.91E-02	1.47E-02
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/19/2011	785.2	K-40	3.28E+00	5.59E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/19/2011	785.2	RA-226	3.03E-01	2.69E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/25/2011	615.3	K-40	4.31E+00	6.13E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/25/2011	615.3	PB-212	5.21E-02	3.09E-02
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/19/2011	626.9	K-40	3.19E+00	6.18E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/19/2011	626.9	PB-214	1.11E-01	6.19E-02
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/19/2011	626.9	BI-214	9.66E-02	3.37E-02
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/25/2011	555	K-40	5.03E+00	8.36E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/23/2011	709.1	TH-234	5.93E-01	5.45E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/23/2011	709.1	K-40	4.08E+00	6.65E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	11/1/2011	766.4	K-40	3.76E+00	5.93E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	11/1/2011	766.4	PB-214	3.81E-02	3.33E-02
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/23/2011	803.1	PB-214	2.76E-02	2.60E-02
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/23/2011	803.1	PB-212	2.93E-02	2.08E-02
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/23/2011	803.1	K-40	2.55E+00	4.89E-01
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	11/1/2011	625.8	K-40	4.47E+00	7.21E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/23/2011	638.7	PB-212	3.75E-02	2.18E-02
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/23/2011	638.7	BI-214	7.44E-02	5.13E-02
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/23/2011	638.7	PB-214	6.08E-02	3.83E-02

* ***Shellfish/Benthic Organisms***

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Ground Water
Quantity: Liters
Concentration (Activity): pCi/L

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
404	WELL ESS-1B, 0.16 MILES SW	1/18/2011	1	CS-137	<MDA	
404	WELL ESS-1B, 0.16 MILES SW	1/18/2011	1	CO-60	<MDA	
404	WELL ESS-1B, 0.16 MILES SW	7/19/2011	1	CO-60	<MDA	
404	WELL ESS-1B, 0.16 MILES SW	7/19/2011	1	CS-137	<MDA	
407	WELL ESS-13B, 0.06 MILES ENE	1/20/2011	1	CO-60	<MDA	
407	WELL ESS-13B, 0.06 MILES ENE	1/20/2011	1	CS-137	<MDA	
407	WELL ESS-13B, 0.06 MILES ENE	7/11/2011	1	CO-60	<MDA	
407	WELL ESS-13B, 0.06 MILES ENE	7/11/2011	1	CS-137	<MDA	
409	WELL ESS-17A, 0.65 MILES NE	5/31/2011	1	CS-137	<MDA	
409	WELL ESS-17A, 0.65 MILES NE	5/31/2011	1	CO-60	<MDA	
409	WELL ESS-17A, 0.65 MILES NE	11/28/2011	1	CO-60	<MDA	
409	WELL ESS-17A, 0.65 MILES NE	11/28/2011	1	CS-137	<MDA	
410	WELL ESS-17B, 0.65 MILES NE	5/31/2011	1	CO-60	<MDA	
410	WELL ESS-17B, 0.65 MILES NE	5/31/2011	1	CS-137	<MDA	
410	WELL ESS-17B, 0.65 MILES NE	11/28/2011	1	CO-60	<MDA	
410	WELL ESS-17B, 0.65 MILES NE	11/28/2011	1	CS-137	<MDA	
418	WELL ESS-21B, NEAR SDSP	1/11/2011	1	CO-60	<MDA	
418	WELL ESS-21B, NEAR SDSP	1/11/2011	1	CS-137	<MDA	
418	WELL ESS-21B, NEAR SDSP	7/7/2011	1	CO-60	<MDA	
418	WELL ESS-21B, NEAR SDSP	7/7/2011	1	CS-137	<MDA	
423	WELL ESS-24A, NEAR SDSP	1/5/2011	1	CS-137	<MDA	
423	WELL ESS-24A, NEAR SDSP	1/5/2011	1	CO-60	<MDA	
423	WELL ESS-24A, NEAR SDSP	7/7/2011	1	CO-60	<MDA	
423	WELL ESS-24A, NEAR SDSP	7/7/2011	1	CS-137	<MDA	
424	WELL ESS-24B, NEAR SDSP	1/5/2011	1	CO-60	<MDA	
424	WELL ESS-24B, NEAR SDSP	1/5/2011	1	CS-137	<MDA	

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Ground Water
Quantity: Liters
Concentration (Activity): pCi/L

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
424	WELL ESS-24B, NEAR SDSP	7/7/2011	1	CO-60	<MDA	
424	WELL ESS-24B, NEAR SDSP	7/7/2011	1	CS-137	<MDA	
426	WELL ESS-25B, NEAR SDSP	6/13/2011	1	CO-60	<MDA	
426	WELL ESS-25B, NEAR SDSP	6/13/2011	1	CS-137	<MDA	
426	WELL ESS-25B, NEAR SDSP	12/7/2011	1	CO-60	<MDA	
426	WELL ESS-25B, NEAR SDSP	12/7/2011	1	CS-137	<MDA	
429	WELL ESS-27A, NEAR SDSP	3/1/2011	1	CS-137	<MDA	
429	WELL ESS-27A, NEAR SDSP	3/1/2011	1	CO-60	<MDA	
429	WELL ESS-27A, NEAR SDSP	6/1/2011	1	CO-60	<MDA	
429	WELL ESS-27A, NEAR SDSP	6/1/2011	1	CS-137	<MDA	
429	WELL ESS-27A, NEAR SDSP	11/29/2011	1	CO-60	<MDA	
429	WELL ESS-27A, NEAR SDSP	11/29/2011	1	CS-137	<MDA	
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	5/18/2011	1	CO-60	<MDA	
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	5/18/2011	1	CS-137	<MDA	
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	11/17/2011	1	CS-137	<MDA	
612	WELL ESS MWPA-118B, NEAR INTAKE CANAL & PLANT S	11/17/2011	1	CO-60	<MDA	

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Fish and Invertebrates
Quantity: GRAMS (wet)
Concentration (Activity): pCi/gm wet

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/23/2011	638.7	K-40	2.57E+00	5.25E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	11/1/2011	597.1	K-40	3.12E+00	5.86E-01
706	NANCY'S CREEK - FREE SWIMMERS	9/28/2011	1000	K-40	2.45E+00	
707	NANCY'S CREEK - BOTTOM FEEDERS	9/28/2011	1000	K-40	2.74E+00	
708	NANCY'S CREEK - SH/BO*	9/28/2011	1000	K-40	2.41E+00	

* ***Shellfish/Benthic Organisms***

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment
Quantity: GRAMS (dry)
Concentration (Activity): pCi/gm dry

Sample Point		*Sample Date*	*Quantity*	*Isotope*	*Activity*	*2 Sigma Error*
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	AC-228	1.92E-01	7.11E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	BI-214	2.20E-01	4.93E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	PB-212	1.58E-01	3.71E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	TL-208	4.86E-02	2.22E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	K-40	1.60E+00	3.73E-01
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	4/25/2011	1514.8	PB-214	2.30E-01	6.06E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	11/1/2011	1553.5	K-40	2.06E+00	5.30E-01
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	11/1/2011	1553.5	PB-214	1.21E-01	4.60E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	11/1/2011	1553.5	BI-214	1.23E-01	5.95E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	11/1/2011	1553.5	PB-212	1.06E-01	5.08E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	11/1/2011	1553.5	TL-208	3.18E-02	2.25E-02
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	RA-226	2.43E+00	8.28E-01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	BI-212	6.56E-01	2.16E-01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	PB-212	4.71E-01	1.01E-01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	TH-234	2.69E+00	1.42E+00
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	BI-214	4.70E-01	9.30E-02
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	CS-137	1.77E-01	4.74E-02
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	PB-214	4.51E-01	1.07E-01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	AC-228	5.15E-01	1.49E-01
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	K-40	8.90E+00	1.13E+00
501	NANCY'S CREEK ADJACENT TO WP-55 NEAR STORM DR	12/19/2011	1032.7	TL-208	1.82E-01	4.94E-02

BSEP 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*
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	TL-208	5.82E+00	1.96E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	PB-212	1.06E+01	2.82E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	BI-214	1.70E+01	3.84E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	PB-214	1.56E+01	4.06E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	RA-226	1.76E+02	4.00E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	TH-234	2.11E+02	5.12E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/17/2011	1	K-40	4.94E+02	4.99E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	PB-212	1.33E+01	2.59E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	TH-234	2.04E+02	5.81E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	RA-226	1.85E+02	3.91E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	BI-214	1.97E+01	3.48E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	BI-212	2.41E+01	1.19E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	TL-208	4.10E+00	1.72E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	K-40	4.18E+02	4.27E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2011	1	PB-214	1.93E+01	4.09E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	RA-226	1.65E+02	3.75E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	TL-208	4.17E+00	1.81E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	PB-212	8.66E+00	2.81E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	BI-214	1.56E+01	3.64E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	TH-234	2.06E+02	6.13E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	AC-228	1.41E+01	6.84E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	PB-214	1.16E+01	3.33E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2011	1	K-40	4.71E+02	4.09E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	AC-228	8.66E+00	5.02E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	PB-212	1.20E+01	2.66E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	PB-214	1.61E+01	4.03E+00

BSEP 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*
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	BI-212	1.51E+01	1.09E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	TL-208	4.35E+00	1.70E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	K-40	4.23E+02	4.63E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	RA-226	1.75E+02	4.00E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	TH-234	2.29E+02	5.72E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2011	1	BI-214	2.16E+01	4.35E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	PB-214	9.26E+00	3.90E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	RA-226	1.08E+02	4.47E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	AC-228	1.19E+01	7.08E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	BI-212	1.69E+01	1.29E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	TL-208	3.98E+00	1.85E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	K-40	8.64E+02	6.63E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	BI-214	1.41E+01	3.66E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	TH-234	1.41E+02	7.17E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2011	1	PB-212	8.36E+00	3.29E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	TL-208	2.56E+00	1.57E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	PB-212	8.31E+00	2.19E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	BI-214	1.66E+01	4.18E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	PB-214	1.35E+01	4.00E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	RA-226	1.85E+02	4.09E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	TH-234	1.69E+02	5.12E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2011	1	K-40	5.34E+02	4.51E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	TL-208	5.28E+00	2.13E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	K-40	8.43E+02	6.51E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	PB-212	8.26E+00	3.15E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	PB-214	1.11E+01	3.86E+00

BSEP 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*
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	RA-226	1.19E+02	4.78E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	TH-234	1.57E+02	5.86E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2011	1	BI-214	1.30E+01	3.82E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	K-40	5.63E+02	5.68E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	TH-234	1.99E+02	5.42E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	RA-226	2.10E+02	3.76E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	PB-214	1.48E+01	3.67E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	BI-214	2.01E+01	4.13E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	PB-212	1.10E+01	2.79E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2011	1	TL-208	5.07E+00	1.72E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	PB-214	1.16E+01	3.94E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	K-40	7.83E+02	6.24E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	TL-208	3.39E+00	2.07E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	PB-212	7.55E+00	3.54E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	BI-214	1.19E+01	3.35E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	RA-226	1.48E+02	4.75E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2011	1	TH-234	1.55E+02	7.10E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	TL-208	4.38E+00	1.73E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	K-40	5.23E+02	5.31E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	PB-212	1.03E+01	2.69E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	BI-214	1.34E+01	3.35E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	PB-214	1.60E+01	4.03E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	RA-226	1.83E+02	3.73E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2011	1	TH-234	2.06E+02	6.45E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	BI-214	8.73E+00	3.47E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	TH-234	1.33E+02	6.38E+01

BSEP 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*
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	AC-228	1.45E+01	7.04E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	PB-214	5.94E+00	3.62E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	PB-212	7.69E+00	3.23E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	K-40	7.87E+02	6.36E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	TL-208	4.05E+00	2.12E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2011	1	RA-226	1.15E+02	4.47E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	AC-228	1.26E+01	5.91E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	TL-208	2.65E+00	1.65E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	RA-226	2.11E+02	4.41E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	PB-214	1.82E+01	3.98E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	BI-214	2.11E+01	3.90E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	PB-212	7.19E+00	2.19E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	TH-234	2.06E+02	5.67E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2011	1	K-40	5.12E+02	4.48E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	TL-208	4.41E+00	1.85E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	RA-226	1.94E+02	4.14E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	AC-228	1.76E+01	6.32E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	K-40	6.99E+02	5.37E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	PB-214	8.91E+00	3.20E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	BI-214	1.49E+01	3.70E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	BI-212	2.50E+01	1.05E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	TH-234	1.92E+02	6.23E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/17/2011	1	PB-212	8.73E+00	3.57E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	TH-234	2.38E+02	6.59E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	AC-228	1.36E+01	5.71E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	RA-226	1.86E+02	4.07E+01

BSEP 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
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	PB-214	1.38E+01	3.77E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	TL-208	5.27E+00	1.86E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	BI-214	1.76E+01	4.18E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	PB-212	1.43E+01	3.03E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2011	1	K-40	6.39E+02	4.96E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	TH-234	2.37E+02	6.20E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	K-40	6.59E+02	5.13E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	PB-212	1.18E+01	3.86E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	BI-214	1.82E+01	4.35E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	PB-214	1.50E+01	3.53E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	TL-208	6.03E+00	1.72E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	AC-228	1.38E+01	8.49E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2011	1	RA-226	2.02E+02	4.73E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	BI-214	1.55E+01	3.49E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	PB-212	1.21E+01	3.75E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	BI-212	1.57E+01	1.06E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	PB-214	1.32E+01	3.74E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	TL-208	5.11E+00	1.68E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	K-40	6.27E+02	5.00E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	TH-234	2.09E+02	6.69E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	AC-228	1.59E+01	7.06E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2011	1	RA-226	1.93E+02	4.14E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	K-40	5.37E+02	4.42E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	PB-214	1.77E+01	3.85E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	BI-214	1.79E+01	3.80E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	PB-212	8.08E+00	3.19E+00

BSEP 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
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	TL-208	3.52E+00	1.80E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	TH-234	1.90E+02	5.46E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2011	1	RA-226	2.24E+02	4.71E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	PB-214	1.26E+01	3.42E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	K-40	7.55E+02	5.73E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	PB-212	1.18E+01	3.32E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	BI-214	1.53E+01	3.39E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	RA-226	2.04E+02	4.17E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	AC-228	1.96E+01	6.70E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	TH-234	2.12E+02	6.12E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2011	1	TL-208	5.51E+00	1.88E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	BI-214	2.48E+01	4.36E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	PB-212	1.07E+01	2.55E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	RA-226	2.14E+02	4.05E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	TH-234	1.99E+02	5.62E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	TL-208	4.69E+00	2.24E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	K-40	6.12E+02	4.88E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2011	1	PB-214	2.20E+01	4.10E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	PB-214	1.68E+01	3.41E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	TH-234	2.18E+02	6.18E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	RA-226	2.34E+02	4.39E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	BI-214	2.00E+01	4.37E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	PB-212	1.27E+01	3.03E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	BI-212	1.73E+01	1.46E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	TL-208	6.00E+00	1.93E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	K-40	7.25E+02	5.60E+01

BSEP 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
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2011	1	AC-228	1.63E+01	5.93E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	PB-212	8.48E+00	2.17E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	TL-208	2.41E+00	1.69E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	K-40	5.07E+02	4.54E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	BI-214	2.53E+01	4.39E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	PB-214	2.24E+01	4.22E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	RA-226	2.00E+02	3.87E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2011	1	TH-234	2.01E+02	5.62E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	PB-214	1.39E+01	3.91E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	K-40	7.40E+02	5.64E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	TL-208	5.73E+00	1.96E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	PB-212	1.71E+01	4.02E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	TH-234	2.56E+02	6.22E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	AC-228	1.77E+01	6.61E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	RA-226	2.10E+02	4.09E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2011	1	BI-214	1.71E+01	4.26E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	TH-234	2.41E+02	6.65E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	TL-208	3.71E+00	1.70E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	K-40	5.77E+02	4.79E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	PB-212	6.18E+00	2.38E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	BI-214	1.05E+01	3.33E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	PB-214	9.14E+00	3.79E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2011	1	RA-226	2.30E+02	3.72E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	K-40	4.71E+02	4.82E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	PB-214	9.63E+00	3.19E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	PB-212	1.15E+01	2.34E+00

BSEP 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*
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	TL-208	2.50E+00	1.82E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	RA-226	2.24E+02	4.26E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	TH-234	2.58E+02	6.41E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2011	1	BI-214	1.17E+01	3.48E+00
494	NANCY'S CREEK - WP-106	1/25/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	1/25/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	2/24/2011	1	NB-95	<MDA	

BSEP 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*
494	NANCY'S CREEK - WP-106	3/30/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	3/30/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	4/28/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	ZR-95	<MDA	

BSEP 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
494	NANCY'S CREEK - WP-106	6/1/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	6/1/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	6/29/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	CO-58	<MDA	

BSEP 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*
494	NANCY'S CREEK - WP-106	7/27/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	7/27/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	8/31/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	9/28/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	BA-LA-140	<MDA	

BSEP 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*
494	NANCY'S CREEK - WP-106	10/31/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	10/31/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	11/22/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	ZN-65	<MDA	

BSEP 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
494	NANCY'S CREEK - WP-106	11/30/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	11/30/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	12/7/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	CO-60	<MDA	

BSEP 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
494	NANCY'S CREEK - WP-106	12/14/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	12/14/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	ZN-65	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	12/20/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	BA-LA-140	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	MN-54	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	FE-59	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	CO-58	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	CO-60	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	ZR-95	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	NB-95	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	I-131	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	CS-134	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	CS-137	<MDA	
494	NANCY'S CREEK - WP-106	12/28/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	CO-58	<MDA	

BSEP 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
495	NANCY'S CREEK - WP-52	1/25/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	1/25/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	2/24/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	NB-95	<MDA	

BSEP 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*
495	NANCY'S CREEK - WP-52	3/30/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	3/30/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	4/28/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	6/1/2011	1	CS-137	<MDA	

BSEP 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*
495	NANCY'S CREEK - WP-52	6/1/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	6/29/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	7/27/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	CO-58	<MDA	

BSEP 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*
495	NANCY'S CREEK - WP-52	8/31/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	8/31/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	9/28/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	CO-60	<MDA	

BSEP 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*
495	NANCY'S CREEK - WP-52	10/31/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	10/31/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	MN-54	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	11/30/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	CO-58	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	BA-LA-140	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	CO-60	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	ZN-65	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	ZR-95	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	NB-95	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	I-131	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	CS-134	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	CS-137	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	FE-59	<MDA	
495	NANCY'S CREEK - WP-52	12/28/2011	1	MN-54	<MDA	

BSEP 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*
496	NANCY'S CREEK - WP-53	1/25/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	1/25/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	2/24/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	I-131	<MDA	

BSEP 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*
496	NANCY'S CREEK - WP-53	3/30/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	3/30/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	4/28/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	CS-137	<MDA	

BSEP 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
496	NANCY'S CREEK - WP-53	6/1/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	6/1/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	6/29/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	7/27/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	CO-58	<MDA	

BSEP 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*
496	NANCY'S CREEK - WP-53	8/31/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	8/31/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	9/28/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	MN-54	<MDA	

BSEP 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*
496	NANCY'S CREEK - WP-53	10/31/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	10/31/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	BA-LA-140	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	CO-60	<MDA	
496	NANCY'S CREEK - WP-53	11/30/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	FE-59	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	CO-58	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	MN-54	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	ZN-65	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	CS-137	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	NB-95	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	I-131	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	CS-134	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	BA-LA-140	<MDA	

BSEP 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
496	NANCY'S CREEK - WP-53	12/28/2011	1	ZR-95	<MDA	
496	NANCY'S CREEK - WP-53	12/28/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	1/25/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	2/24/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	FE-59	<MDA	

BSEP 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
497	NANCY'S CREEK - WP-55	3/30/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	3/30/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	4/28/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	ZN-65	<MDA	

BSEP 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*
497	NANCY'S CREEK - WP-55	6/1/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	6/1/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	6/29/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	7/27/2011	1	CO-60	<MDA	

BSEP 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*
497	NANCY'S CREEK - WP-55	7/27/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	8/31/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	9/28/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	NB-95	<MDA	

BSEP 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
497	NANCY'S CREEK - WP-55	10/31/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	10/31/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	CO-60	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	FE-59	<MDA	
497	NANCY'S CREEK - WP-55	11/30/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	ZR-95	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	CS-137	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	CS-134	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	I-131	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	NB-95	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	ZN-65	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	CO-60	<MDA	

BSEP 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*
497	NANCY'S CREEK - WP-55	12/28/2011	1	CO-58	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	MN-54	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	BA-LA-140	<MDA	
497	NANCY'S CREEK - WP-55	12/28/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	1/25/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	2/24/2011	1	ZR-95	<MDA	

BSEP 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
498	NANCY'S CREEK - WP-57	3/30/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	3/30/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	4/28/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	CO-58	<MDA	

BSEP 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*
498	NANCY'S CREEK - WP-57	6/1/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	6/1/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	6/29/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	BA-LA-140	<MDA	

BSEP 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*
498	NANCY'S CREEK - WP-57	7/27/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	7/27/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	8/31/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	9/28/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	CS-134	<MDA	

BSEP 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
498	NANCY'S CREEK - WP-57	10/31/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	10/31/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	NB-95	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	11/30/2011	1	ZN-65	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	CO-58	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	BA-LA-140	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	CS-134	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	I-131	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	NB-95	<MDA	

BSEP 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*
498	NANCY'S CREEK - WP-57	12/28/2011	1	ZR-95	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	CO-60	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	CS-137	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	FE-59	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	MN-54	<MDA	
498	NANCY'S CREEK - WP-57	12/28/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	1/25/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	FE-59	<MDA	

BSEP 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
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	2/24/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	3/30/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	4/28/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	CS-137	<MDA	

BSEP 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*
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/1/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	6/29/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	NB-95	<MDA	

BSEP 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*
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	7/27/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	8/31/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	MN-54	<MDA	

BSEP 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
499	CAPE FEAR RIVER - WP-61 - CONTROL	9/28/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	10/31/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	CS-134	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	MN-54	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	11/30/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	BA-LA-140	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	CS-137	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	CS-134	<MDA	

BSEP 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*
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	I-131	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	NB-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	ZR-95	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	ZN-65	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	CO-60	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	CO-58	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	FE-59	<MDA	
499	CAPE FEAR RIVER - WP-61 - CONTROL	12/28/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	CO-60	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	CS-137	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/22/2011	1	CO-58	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	CO-60	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	CO-58	<MDA	

BSEP 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*
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	CS-137	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	11/30/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	CO-58	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	CO-60	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	CS-137	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/7/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	CO-58	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	CS-137	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/14/2011	1	CO-60	<MDA	

BSEP 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
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	CO-58	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	CO-60	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/20/2011	1	CS-137	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	ZR-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	MN-54	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	FE-59	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	CO-58	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	CO-60	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	ZN-65	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	BA-LA-140	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	I-131	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	NB-95	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	CS-134	<MDA	
604	NANCY'S CREEK MARSH AREA --WP-92	12/28/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	CS-137	<MDA	

BSEP 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*
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/15/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/22/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	I-131	<MDA	

BSEP 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*
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	11/30/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/7/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/14/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	CS-134	<MDA	

BSEP 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
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	ZR-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/20/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	I-131	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	CO-58	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	FE-59	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	CO-60	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	ZN-65	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	MN-54	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	NB-95	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	CS-134	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	CS-137	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	BA-LA-140	<MDA	
605	NANCY'S CREEK MARSH AREA -- WP-72	12/28/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	CO-60	<MDA	

BSEP 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
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/15/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/22/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	MN-54	<MDA	

BSEP 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*
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	11/30/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/7/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/14/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	FE-59	<MDA	

BSEP 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*
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	CS-134	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/20/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	MN-54	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	FE-59	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	CO-58	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	CO-60	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	ZN-65	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	ZR-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	NB-95	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	I-131	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	CS-137	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	BA-LA-140	<MDA	
606	NANCY'S CREEK MARSH AREA -- WP-74	12/28/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	ZR-95	<MDA	

BSEP 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*
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/15/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	ZR-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/22/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	ZR-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	CO-58	<MDA	

BSEP 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*
607	NANCY'S CREEK MARSH AREA -- WP-76	11/30/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	ZR-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/7/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	ZR-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/14/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	BA-LA-140	<MDA	

BSEP 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*
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	ZR-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/20/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	NB-95	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	CO-60	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	BA-LA-140	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	CS-137	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	CS-134	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	I-131	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	ZN-65	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	MN-54	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	CO-58	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	FE-59	<MDA	
607	NANCY'S CREEK MARSH AREA -- WP-76	12/28/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	CO-58	<MDA	

BSEP 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*
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/15/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/22/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	11/30/2011	1	CS-137	<MDA	

BSEP 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*
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/7/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/14/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	I-131	<MDA	

BSEP 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
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	ZN-65	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/20/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	CO-58	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	I-131	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	MN-54	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	BA-LA-140	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	CS-137	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	CS-134	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	NB-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	ZR-95	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	CO-60	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	FE-59	<MDA	
608	NANCY'S CREEK MARSH AREA -- WP-82	12/28/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	CO-58	<MDA	

BSEP 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
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/15/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	CO-58	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/22/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	CO-58	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	11/30/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	CO-58	<MDA	

BSEP 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*
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/7/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	CO-58	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/14/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	CO-58	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	I-131	<MDA	

BSEP 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*
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/20/2011	1	BA-LA-140	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	ZR-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	MN-54	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	FE-59	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	CO-58	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	CO-60	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	ZN-65	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	NB-95	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	I-131	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	CS-134	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	CS-137	<MDA	
609	NANCY'S CREEK MARSH AREA -- WP-84	12/28/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	CS-137	<MDA	

BSEP 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*
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/15/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	CS-137	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/22/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	CS-137	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	11/30/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	CO-60	<MDA	

BSEP 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
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	CS-137	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/7/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	CS-137	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/14/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	ZR-95	<MDA	

BSEP 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*
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	CS-137	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/20/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	CO-60	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	MN-54	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	FE-59	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	CO-58	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	BA-LA-140	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	ZN-65	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	ZR-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	NB-95	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	I-131	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	CS-134	<MDA	
610	NANCY'S CREEK MARSH AREA -- WP-88	12/28/2011	1	CS-137	<MDA	