



Progress Energy

MAY 13 2008

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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
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62
Radiological Environmental Operating Report for 2007

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 2007.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Gene Atkinson, Supervisor - Licensing/Regulatory Programs (Acting), at (910) 457-2056.

Sincerely,

A handwritten signature in cursive ink that appears to read "Randy C. Ivey".

Randy C. Ivey
Manager - Support Services
Brunswick Steam Electric Plant

MAT/mat

Enclosure:

Radiological Environmental Operating Report for 2007

Progress Energy Carolinas, Inc.
Brunswick Nuclear Plant
PO Box 10429
Southport, NC 28461

*IE25
NER*

cc (with enclosure):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Victor M. McCree, Regional Administrator (Acting)
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission
ATTN: Mr. Joseph D. Austin, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

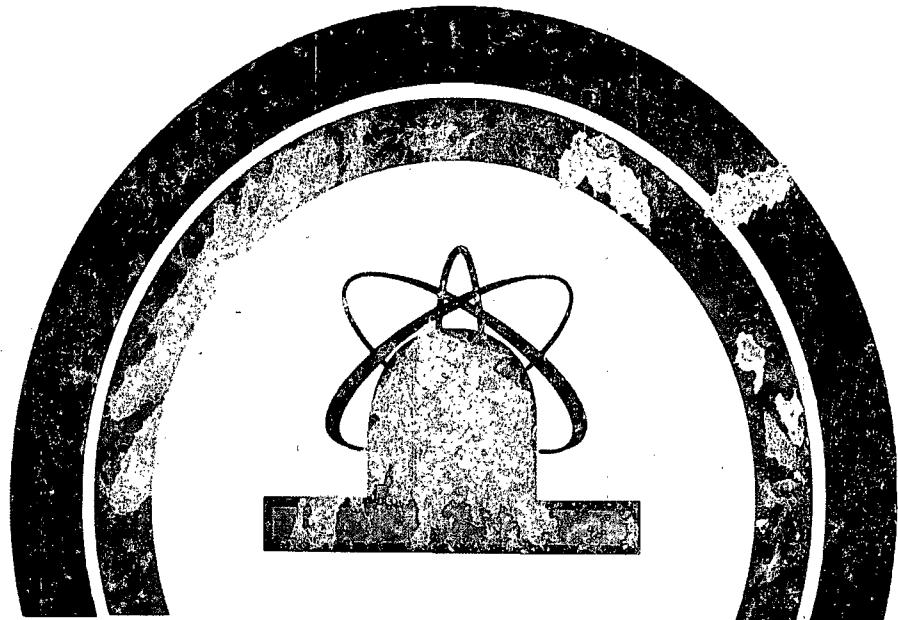
U. S. Nuclear Regulatory Commission (**Electronic Copy Only**)
ATTN: Mrs. Farideh E. Saba (Mail Stop OWFN 8G9A)
11555 Rockville Pike
Rockville, MD 20852-2738

Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510

Enclosure
BSEP 08-0061

Radiological Environmental Operating Report for 2007

**RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT
2007**



**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, 2007**

TABLE OF CONTENTS

<u>Title</u>	<u>Page</u>
Table of Contents	i
List of Figures	ii
List of Tables	iii
Executive Summary	1
Radiological Environmental Monitoring Program	2
Purpose and Requirements for the Radiological Monitoring Program	2
General Site Description	3
Radiological Monitoring Program Quality Assurance	4
Radiological Monitoring Program General Description	5
Summary of Radiological Monitoring Program	10
Interpretations and Conclusions	13
Missed Surveillances	17
Analytical Procedures	18
Land Use Census	22
Purpose of the Land Use Census	22
Methodology	23
2007 Land Use Census Results	23
Data Reports	

LIST OF FIGURES

Figure		Page
1	Location of Brunswick Steam Electric Plant	3
2	Radiological Sampling Locations (Distant from Plant)	6
3	Radiological Sampling Locations (Nearest Plant)	7
4	Plot of Air Particulate Gross Beta Activity (Locations 200 and 204)	26
5	Plot of Air Particulate Gross Beta Activity (Locations 201 and 204)	27
6	Plot of Air Particulate Gross Beta Activity (Locations 202 and 204)	28
7	Plot of Air Particulate Gross Beta Activity (Locations 203 and 204)	29
8	Plot of Air Particulate Gross Beta Activity (Locations 204 and 205)	30
9	Plot of Surface Water Tritium Activity (Locations 400 and 401)	31
10	Plot of TLD Averages for Inner and Outer Rings	32

LIST OF TABLES

Table		Page
1	Media Used to Assess Exposure Pathways to Man	5
2	Radiological Monitoring Sampling Locations	8
3	Radiological Environmental Monitoring Program Data Summary	11
4	Gross Beta Air Particulate Activity Averages	15
5	Historical TLD Results (1972-2007)	16
6	Typical Lower Limits of Detection (a priori) Gamma Spectrometry	21
7	Land Use Census Comparisons (2006-2007) Nearest Pathway (miles)	24
8	Garden Census (2007)	25

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 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, 2007 through December 31, 2007.

The REMP was established in 1973. Radiation and radioactivity in various environmental media have been monitored for more than 30 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:

- 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.
- 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 no gamma activity was detected in any sample (indicator or control) 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 the presence of tritium in two out of twelve indicator samples. Refer to the Interpretations and Conclusions Section / Surface Water and Figure 9.
- 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, "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.

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.

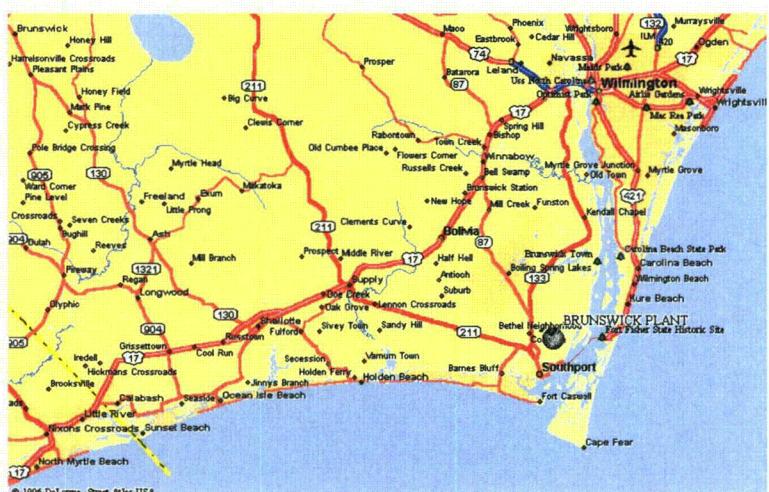


Figure 1: Location of Brunswick Steam Electric Plant

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, "Quality Assurance for Radiological Monitoring Programs." According to R.G. 4.15, 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, 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 and 3. A description of each sample location may be found in Table 2.

Radiological Sampling Locations

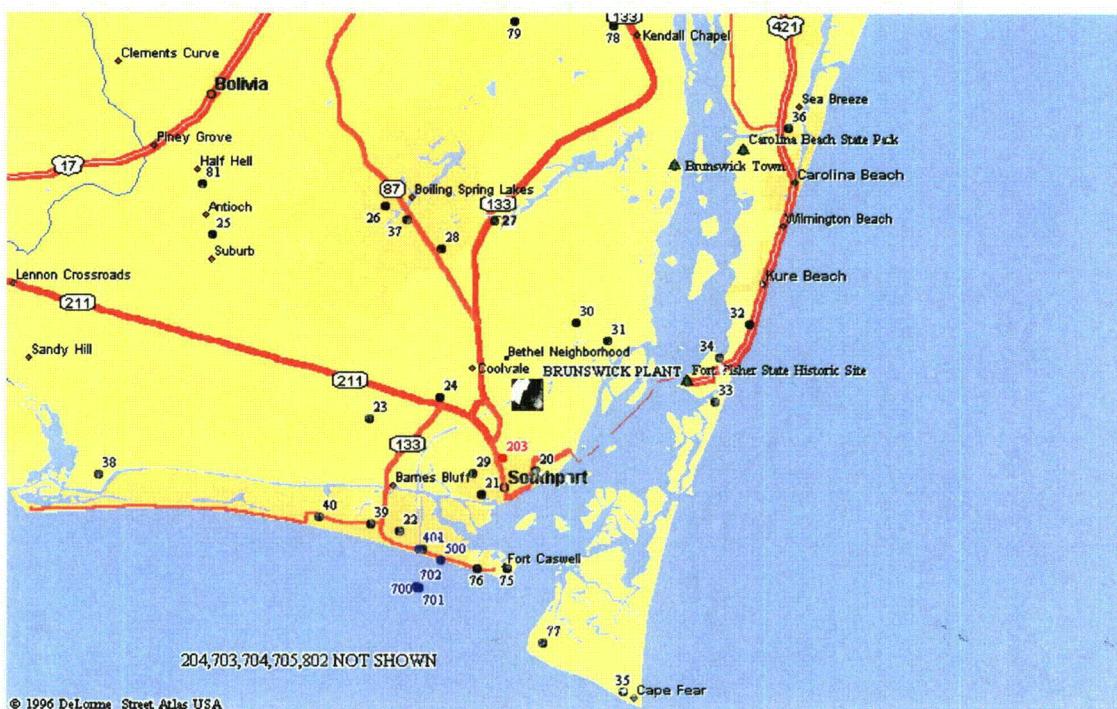


Figure 2: Radiological Sampling Locations (Distant from Plant)

Stations not illustrated:

204 (Sutton Plant in Wilmington) (Control Air Station)

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

802 (Location not specified) (Control Vegetation)

Radiological Sampling Locations

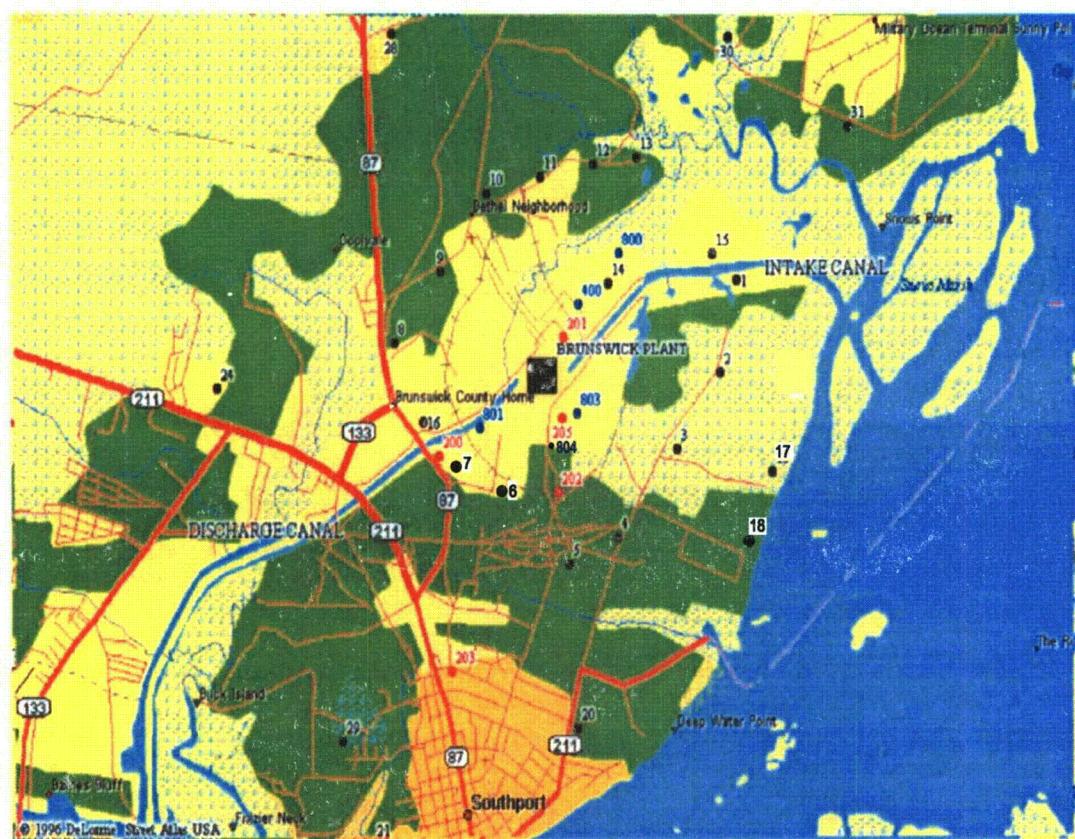


Figure 3 (nearest Plant) is an expanded view of the previous figure (Figure 2 page 6).

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 PMAC 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant* 205--0.6 miles SSE Spoil Pond	Weekly (Continuous Sampling)	(270 m ³)	Iodine-131
Air Particulate (AP)	200--1.0 miles WSW Visitors Center 201--0.5 miles NE PMAC 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant* 205--0.6 miles SSE Spoil Pond	Weekly (Continuous Sampling) Quarterly	(270 m ³)	Gross Beta (Weekly) Composite Gamma (Quarterly)
Fish (FI) and Invertebrates	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)	Semiannual (In Season)	500 grams (wet)	Gamma (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	Semiannual	575 grams	Gamma
Surface Water (SW)	400--0.6 miles NE Intake Canal* 401--4.9 miles SSW discharge canal @ OD pumps	Monthly Composite	4 liters	Gamma Tritium (Quarterly)

* Control Stations

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 1.1 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*	Quarterly	Not Applicable	TLD Reading (Gamma Dose)

*Control Station

SUMMARY OF RADIOLOGICAL MONITORING PROGRAM

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2007 for BSEP. The program was conducted in accordance with the ODCM, and applicable procedures.

The 2007 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 960 sample measurements were performed on 936 collected samples from indicator and control locations from six environmental media types during the year. No detectable radioactivity (or radioactivity that differed significantly from the corresponding control) was observed in any of the 804 measurements performed on the 792 indicator location samples in 2007, except for two anomalous tritium results on surface water samples. No gamma activity was detected in any 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 2007 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.

A statistical summary of all the data gathered in 2007 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 2007.

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

Brussels Steam Electric Plant
 Brussels County, North Carolina

Docket Numbers - 50-324 and 325
 Calendar Year 2007

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	Mean Range ⁽²⁾	Control Locations Mean Range ⁽²⁾
Air Cartridge (pCi/m ³)	I-131 318	6.3E-2	All less than LLD	All less than LLD	All less than LLD	All less than LLD
Air Particulate (pCi/m ³)	Gross Beta 318	4.1E-3	1.95E-2 (265/265) ⁽⁷⁾ 7.38E-3 – 3.66E-2	Southport Substation 2.0 miles SSW	2.01E-2 (53/53) ⁽⁷⁾ 7.38E-3 – 3.66E-2	2.13E-2 (53/53) ⁽⁷⁾ 9.36E-3 – 4.27E-2
	Gamma ⁽⁴⁾ 24	See Table 6	All less than LLD	All less than LLD	All less than LLD	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma ⁽⁴⁾ 60 ⁽³⁾	See Table 6	All less than LLD	All less than LLD	All less than LLD	All less than LLD
Fish and Invertebrates (pCi/g, wet)	Gamma ⁽⁴⁾ 12	See Table 6	All less than LLD	All less than LLD	All less than LLD	All less than LLD
Sediments--Shoreline (pCi/g, dry)	Gamma ⁽⁴⁾ 2	See Table 6	All less than LLD	All less than LLD	No control	
Surface Water (pCi/l)	Gamma ⁽⁴⁾ 24	See Table 6	All less than LLD	All less than LLD	All less than LLD	All less than LLD
	Tritium 24	3.50E+2 ⁽⁶⁾	6.30E+2 (2/12) ⁽⁷⁾ 4.52E+2 – 8.07E+2	Discharge Canal @ OD Pumps 4.9 miles SSW	6.30E+2 (2/12) ⁽⁷⁾ 4.52E+2 – 8.07E+2	All less than LLD
TLD (mR per quarter) ⁽⁵⁾	TLD Readout 178 ⁽³⁾		9.77E+0 (174/176) ⁽⁷⁾ 7.10E+0 - 1.33E+1	1.1 miles SSW	1.25E+1 (4/4) ⁽⁷⁾ 1.15E+1 - 1.33E+1	1.06E+1 (4/4) ⁽⁷⁾ 9.50E+0 - 1.17E+1

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.
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 Surveillances.
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.
6. The tritium LLD was lowered to 3.50E+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 6.30E+2 (2/12) 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.

INTERPRETATIONS AND CONCLUSIONS

Air Monitoring

The average gross beta concentration measured in 265 air particulate (AP) samples collected at indicator stations during 2007 was 1.95E-2 picocuries per cubic meter (pCi/m^3) and the average gross beta concentration measured in 53 AP samples collected at control stations during 2007 was 2.13E-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 (2002-2006) was 1.70E-2 pCi/m^3 (Table 4). The airborne concentrations of gross beta activity in 2007 are indicative of natural background and do not indicate any abnormal activities originating from the nuclear operations at BSEP. Figures 4 through 8 depict the monthly variations of these values. The air samplers operated for a total of 100% availability for the 2007 year.

Gamma analyses of the composite air particulate filters indicated that all of the radionuclides indicative of plant effluents were at concentrations less than their respective LLDs. All radionuclides positively identified by the radionuclide analyses were typical of naturally occurring materials.

Analyses of 265 indicator and 53 control air cartridges (AC) for the collection of radioiodines indicated that concentrations of those radionuclides, and particularly I-131, were less than the LLD. No I-131 activity was identified in any indicator or control samples in 2007.

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 2007, 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 12 samples from the control location. No detectable activities relating to plant effluents were detected in this sampling media in 2007. No 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. In all 12 samples (indicator and control), no detectable activities relating to plant effluents were detected in 2007. All radionuclides positively identified by the radionuclide analyses were naturally occurring nuclides.

Shoreline Sediments

Two shoreline sediments in 2007 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.

Surface Water

Surface water is sampled monthly from the intake and discharge canal. These samples are analyzed for gamma-emitting radionuclides and for tritium. The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in the 12 indicator and 12 control samples. None of these samples (indicator or control) indicated any detectable concentrations of tritium, except for two indicator (SW-401 discharge canal) samples for March and April of 2007. Typically, neither sample has any detectable tritium activity, but in March and April 2007 the discharge canal composite sample (SW-401) analysis indicated 807 pCi/L and 452 pCi/L of tritium activity (NCR # 229054). The tritium activity was expected due to plant operations at the time, which was due to a Unit 2 refueling outage and the Unit 2 circulating water system being shut down for maintenance; therefore, the typical plant cooling water discharge volume was low compared to normal discharge volumes. The reporting limit for tritium in environmental samples is 30,000 pCi/L; therefore, the detected values are well below the reportable limit. Figure 9 depicts the observed tritium concentrations for 2007.

External Radiation Exposure

The environmental data on external radiation exposure for 2007 was essentially unchanged from 1989-2006 with an average exposure for all of 2007 indicator locations of 9.8 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 1.1 miles SSW. The exposure was 12.5 mR per quarter. Figure 10 depicts average inner and outer ring TLD data for each quarter of 2007. 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.

TABLE 4
Brunswick Steam Electric Plant
GROSS BETA AIR PARTICULATE ACTIVITY AVERAGES

Gross Beta Activity (pCi/m³)								
Location	Preoperational		Recent Operational					
	1973	1974	2002	2003	2004	2005	2006	2007
AP-200	2.2E-2	1.4E-1	1.5E-2	1.4E-2	1.7E-2	1.8E-2	1.9E-2	1.9E-2
AP-201	3.1E-2	1.4E-1	1.6E-2	1.5E-2	1.8E-2	1.9E-2	1.9E-2	2.0E-2
AP-202	3.4E-2	1.4E-1	1.6E-2	1.5E-2	1.7E-2	1.7E-2	1.8E-2	1.9E-2
AP-203	2.4E-2	1.3E-1	1.6E-2	1.6E-2	1.8E-2	1.8E-2	1.8E-2	2.0E-2
AP-204*	2.5E-2	1.3E-1	1.7E-2	1.6E-2	1.8E-2	1.9E-2	1.9E-2	2.1E-2
AP-205	**	**	1.4E-2	1.4E-2	1.8E-2	1.8E-2	1.8E-2	1.9E-2

* Control location

** This sample point added post-operational.

TABLE 5
Brunswick Steam Electric Plant
HISTORICAL TLD RESULTS (1972-2007)

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)

*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.

All AP and AC samples were available for counting in 2007.

Missed Surveillances:

- None Reported

Food Crops / Vegetation

No food crops were grown in the vicinity of the plant in 2007; therefore, none were collected. The media were represented by indigenous vegetation samples (broadleaf vegetation) consisting primarily of wax myrtle leaves.

Thermoluminescent Dosimeters (TLDs)

Two out of a possible 180 TLD samples were missing during 2007. The missing TLDs occurred:

Fourth Quarter	TLD # 39 was missing in the field due to the power pole it was stationed on being replaced with underground utilities, which resulted in the loss of the TLD. A new TLD and holder were installed adjacent to the location (NCR # 261652).
Fourth Quarter	TLD # 40 was missing in the field due to the power pole it was stationed on being replaced with underground utilities, which resulted in the loss of the TLD. A new TLD and holder were installed adjacent to the location (NCR # 261652).

Note: TLD points 41 thru 74 are not ODCM TLD sample points and are not listed. TLD sample points 19 and 80 have been retired.

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 4.1E-3 pCi/m³.

AP 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. Five milliliters of the distillate are mixed with 13 milliliters of liquid scintillation cocktail and counted in a liquid scintillation counter typically for 200 minutes. The LLD for this count time was approximately 3.50E+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.

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 typically counted individually for 2,500 seconds with an approximate LLD of 6.3E-2 pCi/m³.

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 Nuclear 9900 Gamma Spectroscopy System. Table 6 summarizes LLD values derived from using the instrument with the worst sensitivity, typical sample volumes, typical count times, typical worst background count, and worst case on decay (from collection to counting).

AP filter quarterly composites are placed in a Petri dish and analyzed directly for a typical count time of 7,000 seconds.

Liquid samples are boiled down to reduce the volume, transferred to a 1000-milliliter Marinelli beaker, and analyzed for a typical count time of 80,000 seconds.

Shoreline sediments are dried, ground, weighed, and then analyzed in a Marinelli beaker for a typical count time of 1,500 seconds.

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

Fish samples are prepared by stuffing small raw, edible portions of the fish in a one liter Marinelli beaker and edible portions of invertebrate organisms are cleaned and placed in a one liter Marinelli beaker for analysis for a typical count time of 1,800 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 Progress Energy Carolinas, Inc.'s 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 2007, 66 average analyses were completed on 16 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 66 average analyses 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.

All of the 66 average analyses were within the acceptance criteria, except for one Gross Beta Filter for Cs-137 result which fell outside the acceptable criteria (NCR # 267497). During 2007, each individual measurement (691 analyses) was evaluated; with all but twenty-five (25) of the individual measurements falling within the acceptable criteria (NCR # 273324). Any results that lie outside the ratio criteria have had an evaluation performed to identify any recommended

remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

Lower Limits of Detection

All samples analyzed met the LLD required by ODCM Table 7.3.15-3. Typical "a priori" LLD values for the samples analyzed are listed in Table 6.

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

Surface Water Samples (Saline Water)	
Isotope	LLD (pCi/l)
Mn-54	4
Co-58	5
Fe-59	12
Co-60	6
Zn-65	10
Zr-Nb-95	8 / 6
I-131	14
Cs-134	5
Cs-137	4
Ba-La-140	33 / 9
Air Particulates (Quarterly Composite)	
Isotope	LLD (pCi/m³)
Cs-134	0.002
Cs-137	0.002
Shoreline Sediment	
Isotope	LLD (pCi/kg, dry)
Cs-134	135
Cs-137	109
Fish	
Isotope	LLD (pCi/kg, wet)
Mn-54	86
Co-58	90
Fe-59	207
Co-60	111
Zn-65	222
Cs-134	113
Cs-137	100
Food Products and Vegetation	
Isotope	LLD (pCi/kg, wet)
I-131	54
Cs-134	42
Cs-137	47

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

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 vegetables
- The nearest milk animal

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.

2007 Land Use Census Results

The 2006 and 2007 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 and July of 2007 did identify changes in the identity of the nearest resident from plant center from 2006 in the SE and SSE sectors. The garden portion of the census identified changes in the distances, locations, and existence of the nearest garden in eight sectors. The census did identify some changes in the distance of 0.1 mile due to the GPS readings, not actual changes.

The nearest garden location changed in the North (N) sector from no garden to one at 1.0 mile, the South (S) sector from 1.9 miles to 1.7 miles, the South Southwest (SSW) sector from 1.7 miles to 1.9 miles, the Southwest (SW) sector from 3.0 miles to 2.5 miles, the West Southwest (WSW) sector from 1.5 miles to 1.2 miles, the West (W) sector from 0.9 miles to 1.0 mile, the Northwest (NW) sector from 1.0 mile to 4.9 miles, and the North Northwest (NNW) from 4.5 miles to 0.9 miles. No milk animals were located within 5 miles of the plant in 2007.

The 2007 Garden Census was conducted within 5 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 2007 Land Use and Garden Census indicate stable use of land, confirming that current control locations are appropriate, and no changes are needed for dose assessment and environmental monitoring.

TABLE 7
Brunswick Steam Electric Plant
LAND USE CENSUS COMPARISONS (2006- 2007)
NEAREST PATHWAY (MILES)

SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2006	2007	2006	2007	2006	2007
N	0.8	0.8	None	1.0*	None	None
NNE	0.7	0.8	None	None	None	None
NE	None	None	None	None	None	None
ENE	None	None	None	None	None	None
E	None	None	None	None	None	None
ESE	1.4	1.4	None	None	None	None
SE	0.9	None*	None	None	None	None
SSE	0.9	2.1*	None	None	None	None
S	1.1	1.1	1.9	1.7*	None	None
SSW	1.2	1.2	1.7	1.9*	None	None
SW	1.1	1.1	3.0	2.5*	None	None
WSW	1.2	1.2	1.5	1.2*	None	None
W	0.9	0.9	0.9	1.0*	None	None
WNW	0.9	0.9	None	None	None	None
NW	0.9	0.9	1.0	4.9*	None	None
NNW	0.8	0.8	4.5	0.9*	None	None

* Represents a change from the previous year.

TABLE 8
Brunswick Steam Electric Plant
GARDEN CENSUS (2007)

SECTOR	DISTANCE (miles)		SECTOR	DISTANCE (miles)
N	1.0		W	1.4
NNE	None		W	2.4
NE	None		W	2.6
ENE	None		W	2.6
E	None		WNW	None
ESE	None		NW	4.9
SE	None		NNW	0.9
SSE	None		NNW	1.0
S	1.7		NNW	4.5
S	1.9		NNW	4.8
S	2.3		NNW	4.8
S	2.3			
SSW	1.9			
SSW	2.0			
SSW	2.1			
SSW	2.1			
SSW	2.3			
SSW	2.7			
SSW	2.8			
SSW	2.8			
SW	2.5			
SW	3.0			
WSW	1.2			
WSW	1.6			
WSW	2.8			
W	1.0			

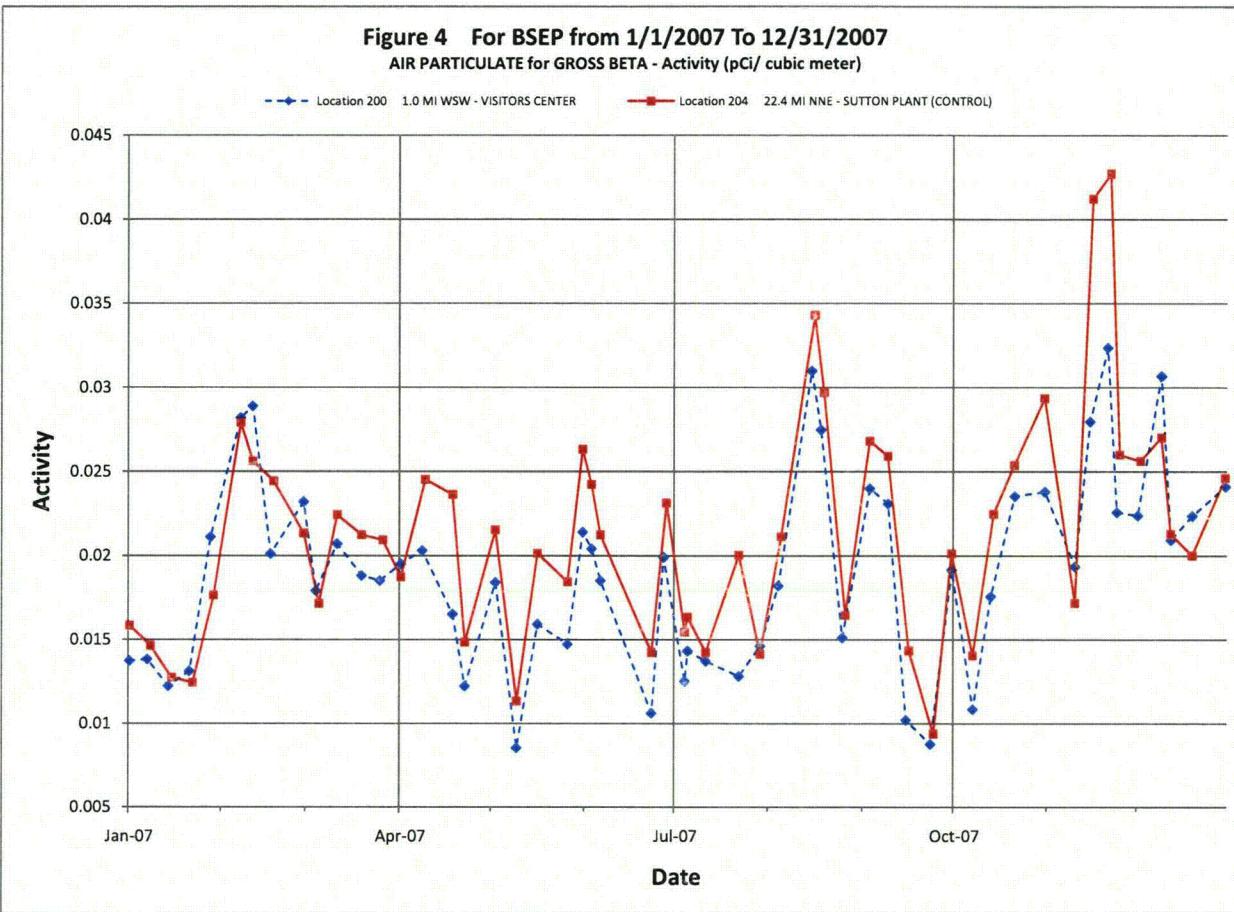


Figure 5 For BSEP from 1/1/2007 To 12/31/2007

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

--♦-- Location 201 0.5 MI NE - PMAC -■-- Location 204 22.4 MI NNE - SUTTON PLANT (CONTROL)

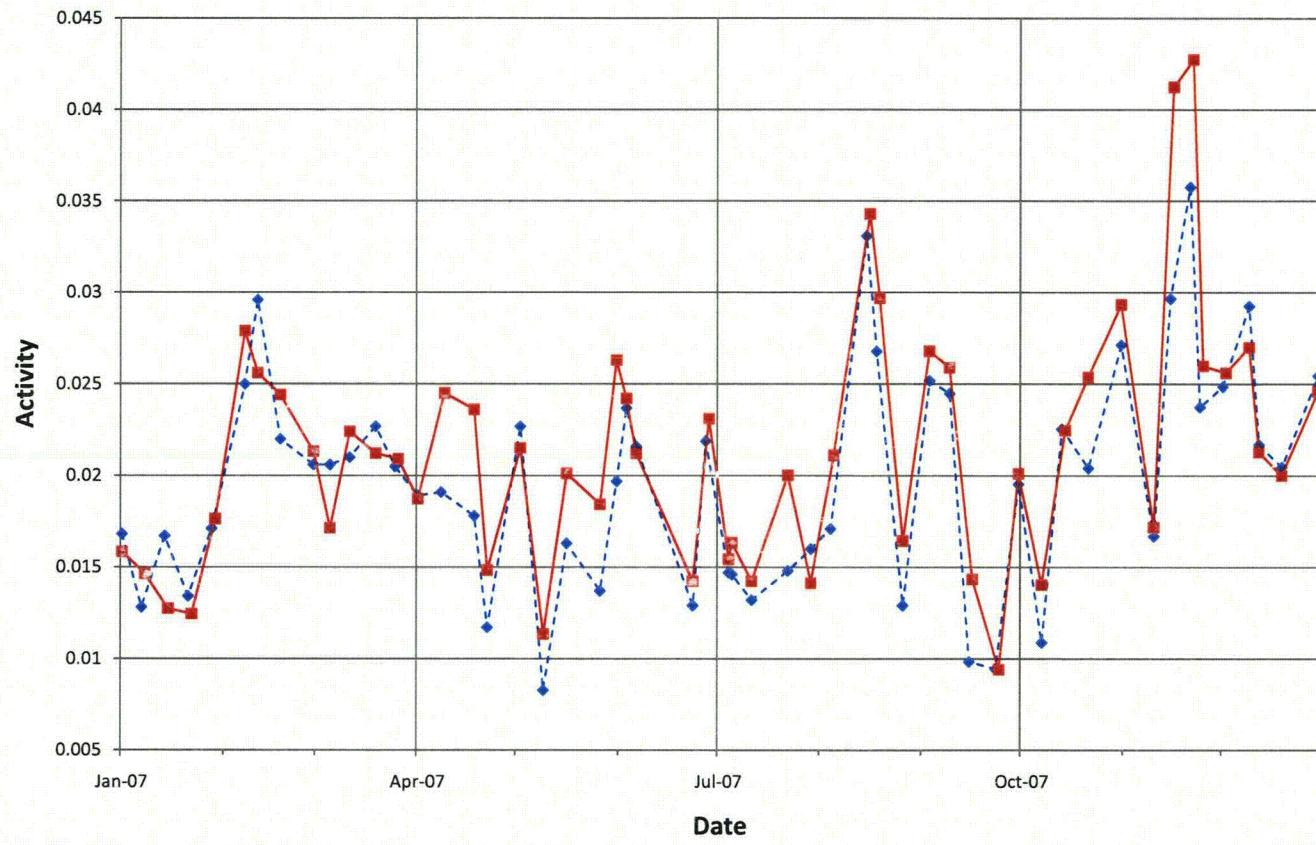


Figure 6 For BSEP from 1/1/2007 To 12/31/2007
AIR PARTICULATE for GROSS BETA - Activity (pCi/ cubic meter)

—●— Location 202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD —■— Location 204 22.4 MI NNE - SUTTON PLANT (CONTROL)

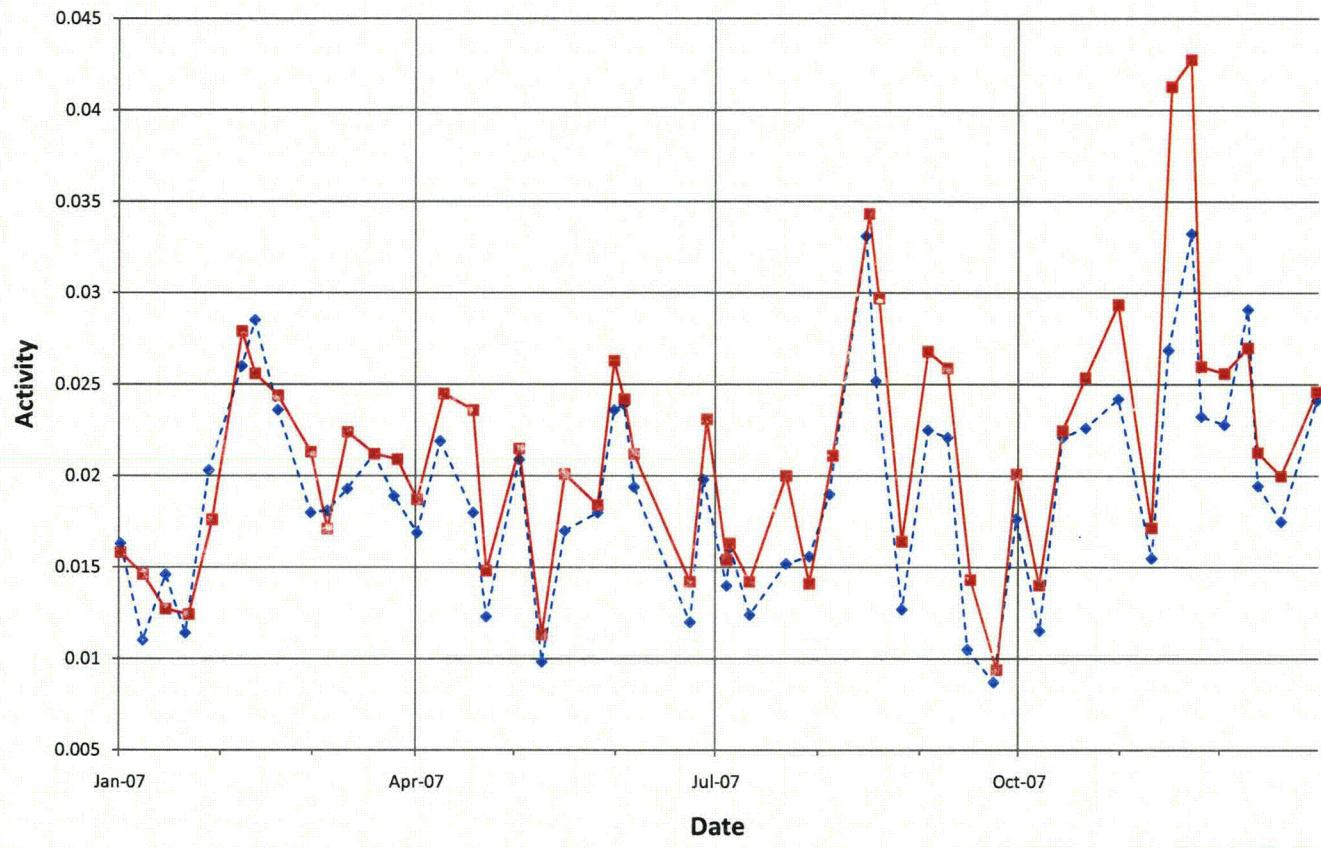


Figure 7 For BSEP from 1/1/2007 To 12/31/2007

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

—♦— Location 203 2.0 MI SSW - SOUTHPORT SUBSTATION —■— Location 204 22.4 MI NNE - SUTTON PLANT (CONTROL)

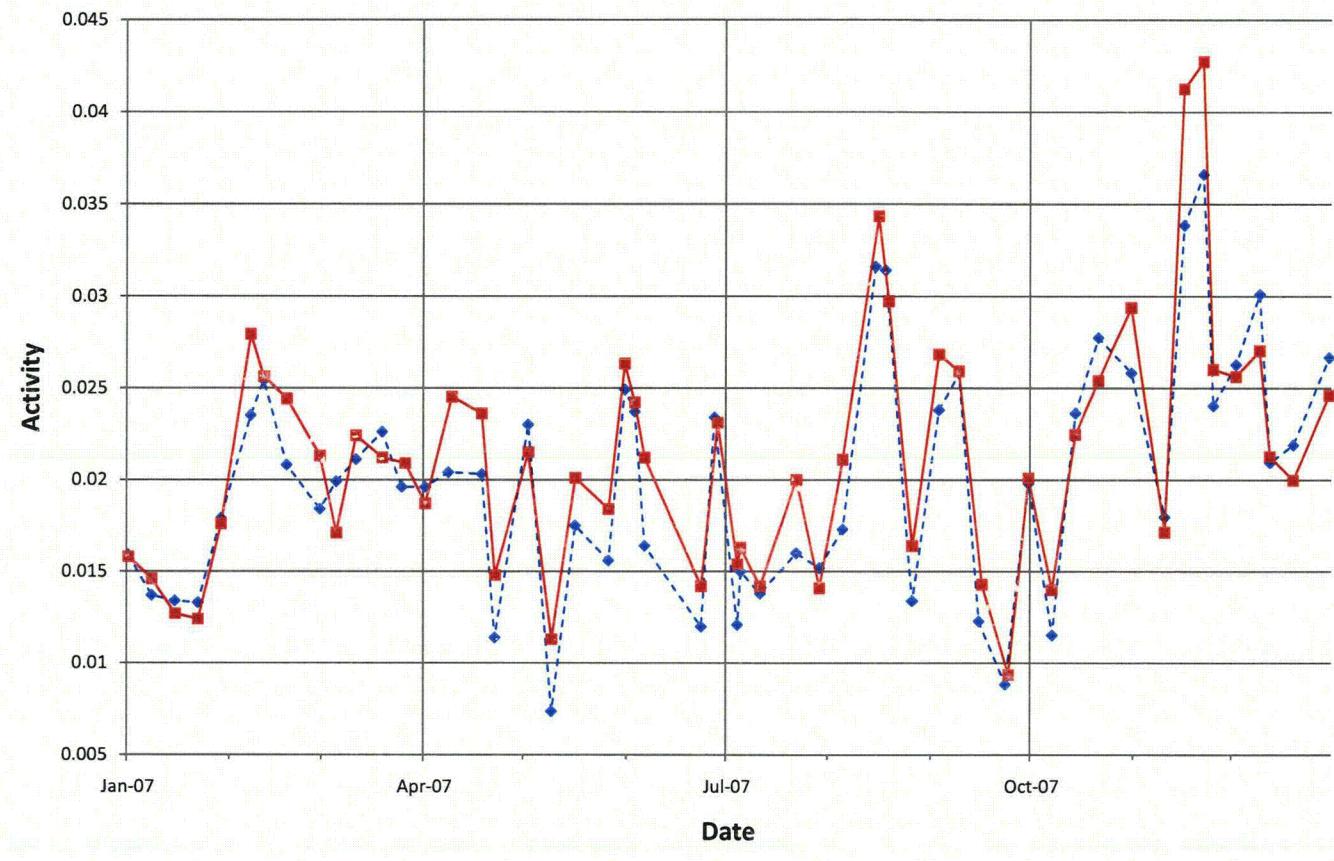


Figure 8 For BSEP from 1/1/2007 To 12/31/2007

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

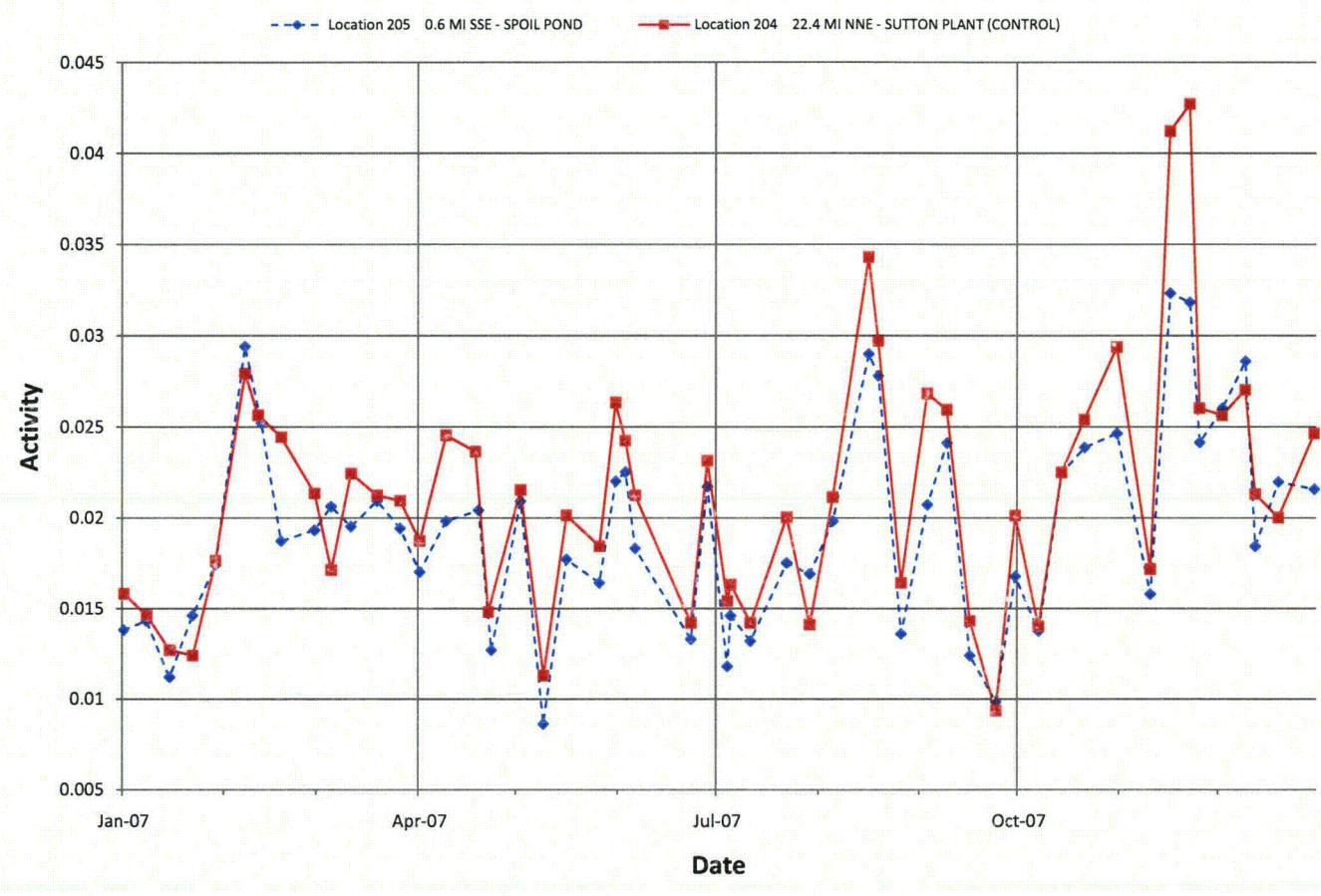


Figure 9 BSEP 2007 Surface Water Tritium

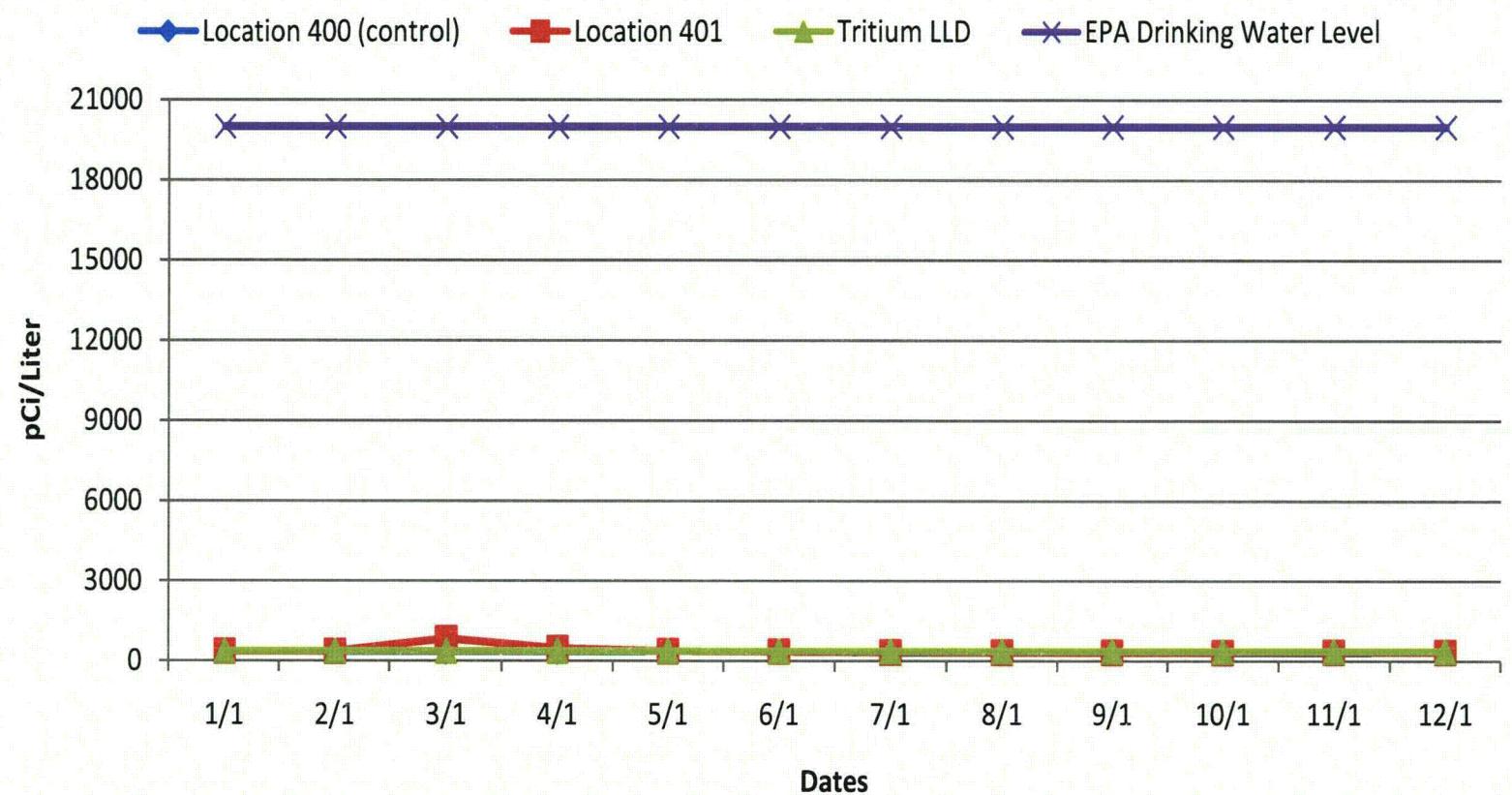
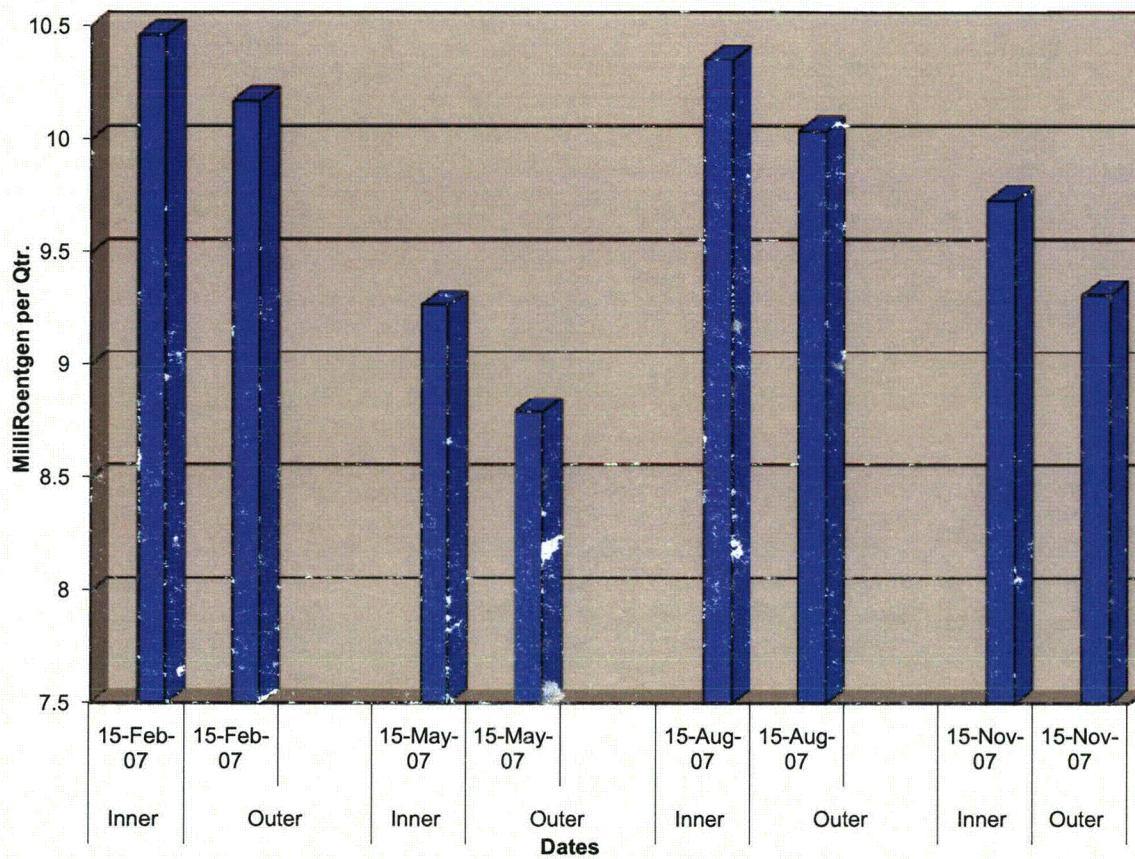


Figure 10 BSEP 2007 TLD Averages for Inner and Outer Ring Locations



2007 BSEP

Radiological Environmental Monitoring

TLD Report

Comments

- 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.
- All BSEP Environmental TLDs were present in 2007, except for the following TLDs:
 - TLD # 39 Fourth Quarter of 2007
 - TLD # 40 Fourth Quarter of 2007

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	2/15/2007	10	2
1	1.1 MI E	5/15/2007	8.7	0.7
1	1.1 MI E	8/15/2007	9.9	2.3
1	1.1 MI E	11/15/2007	9.7	0.9
2	0.9 MI ESE	2/15/2007	10	1
2	0.9 MI ESE	5/15/2007	9.6	0.9
2	0.9 MI ESE	8/15/2007	9.8	1.7
2	0.9 MI ESE	11/15/2007	10	1.2
3	0.9 MI SE	2/15/2007	9.6	1.3
3	0.9 MI SE	5/15/2007	10.5	0.8
3	0.9 MI SE	8/15/2007	9.4	0.8
3	0.9 MI SE	11/15/2007	10.2	1
4	1.1 MI SSE	2/15/2007	10.4	1.2
4	1.1 MI SSE	5/15/2007	9.9	0.7
4	1.1 MI SSE	8/15/2007	10.5	0.6
4	1.1 MI SSE	11/15/2007	9.7	0.7
5	1.1 MI S	2/15/2007	10.3	1.8
5	1.1 MI S	5/15/2007	9.6	1.2
5	1.1 MI S	8/15/2007	10.2	1.3
5	1.1 MI S	11/15/2007	10	1.4
6	1.1 MI SSW	2/15/2007	13.3	1
6	1.1 MI SSW	5/15/2007	11.5	1.7

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
6	1.1 MI SSW	8/15/2007	13	1.2
6	1.1 MI SSW	11/15/2007	12.1	1.6
7	1.1 MI SW	2/15/2007	10.4	2.3
7	1.1 MI SW	5/15/2007	9.9	0.9
7	1.1 MI SW	8/15/2007	9.8	1.7
7	1.1 MI SW	11/15/2007	10.4	0.8
8	1.2 MI W	2/15/2007	9.9	1.2
8	1.2 MI W	5/15/2007	9.5	0.9
8	1.2 MI W	8/15/2007	10.6	1
8	1.2 MI W	11/15/2007	9.4	1.2
9	1.0 MI WNW	2/15/2007	8.9	1.3
9	1.0 MI WNW	5/15/2007	8.8	1.1
9	1.0 MI WNW	8/15/2007	8.7	1
9	1.0 MI WNW	11/15/2007	9.2	0.7
10	0.8 MI NW	2/15/2007	9	1
10	0.8 MI NW	5/15/2007	7.9	1
10	0.8 MI NW	8/15/2007	9	1.3
10	0.8 MI NW	11/15/2007	8.2	0.7
11	0.9 MI NNW	2/15/2007	11.6	2.2
11	0.9 MI NNW	5/15/2007	9.1	1.1
11	0.9 MI NNW	8/15/2007	11.6	2.9
11	0.9 MI NNW	11/15/2007	9.8	0.7
12	1.1 MI N	2/15/2007	10.2	1.7
12	1.1 MI N	5/15/2007	8.9	0.7

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
12	1.1 MI N	8/15/2007	9.7	1.1
12	1.1 MI N	11/15/2007	9.4	0.8
13	1.2 MI NNE	2/15/2007	9.3	1.2
13	1.2 MI NNE	5/15/2007	8.1	0.6
13	1.2 MI NNE	8/15/2007	8.9	0.9
13	1.2 MI NNE	11/15/2007	8.7	1.5
14	0.5 MI NE	2/15/2007	11.3	1.8
14	0.5 MI NE	5/15/2007	10.1	0.8
14	0.5 MI NE	8/15/2007	11.2	1.5
14	0.5 MI NE	11/15/2007	11.1	0.8
15	0.9 MI ENE	2/15/2007	11.2	1.4
15	0.9 MI ENE	5/15/2007	10.3	0.8
15	0.9 MI ENE	8/15/2007	10.9	1.1
15	0.9 MI ENE	11/15/2007	11.2	1
16	1.0 MI WSW	2/15/2007	9.7	1.6
16	1.0 MI WSW	5/15/2007	8.7	0.9
16	1.0 MI WSW	8/15/2007	9.4	0.7
16	1.0 MI WSW	11/15/2007	9.2	1.6
17	1.4 MI ESE	2/15/2007	12.3	2.3
17	1.4 MI ESE	5/15/2007	9.6	1.3
17	1.4 MI ESE	8/15/2007	12.8	1.1
17	1.4 MI ESE	11/15/2007	10.5	2.3
18	1.7 MI SE	2/15/2007	11.3	1
18	1.7 MI SE	5/15/2007	8.5	0.8

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
18	1.7 MI SE	8/15/2007	11.1	0.7
18	1.7 MI SE	11/15/2007	9.1	0.8
20	2.1 MI S	2/15/2007	10.1	1.5
20	2.1 MI S	5/15/2007	7.4	1.3
20	2.1 MI S	8/15/2007	10.1	0.9
20	2.1 MI S	11/15/2007	8.1	0.8
21	2.9 MI SSW	2/15/2007	9.8	1.6
21	2.9 MI SSW	5/15/2007	8.8	0.6
21	2.9 MI SSW	8/15/2007	9.8	0.8
21	2.9 MI SSW	11/15/2007	9	1.2
22	5.3 MI SW	2/15/2007	9.4	1.6
22	5.3 MI SW	5/15/2007	9.4	1.6
22	5.3 MI SW	8/15/2007	9.1	0.5
22	5.3 MI SW	11/15/2007	9.3	1.7
23	4.6 MI WSW	2/15/2007	9.8	1
23	4.6 MI WSW	5/15/2007	7.2	0.8
23	4.6 MI WSW	8/15/2007	9.9	0.5
23	4.6 MI WSW	11/15/2007	7.7	1
24	3.0 MI W	2/15/2007	10.4	1.3
24	3.0 MI W	5/15/2007	9.5	1.2
24	3.0 MI W	8/15/2007	10.6	0.4
24	3.0 MI W	11/15/2007	10.4	1.7
25	8.6 MI WNW	2/15/2007	9.7	1
25	8.6 MI WNW	5/15/2007	9.4	0.7

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
25	8.6 MI WNW	8/15/2007	10.1	0.7
25	8.6 MI WNW	11/15/2007	10.3	1.6
26	5.9 MI NW	2/15/2007	12.3	1.4
26	5.9 MI NW	5/15/2007	10.1	0.8
26	5.9 MI NW	8/15/2007	13.3	1.1
26	5.9 MI NW	11/15/2007	10.5	0.7
27	5.1 MI NNW	2/15/2007	10.3	1.4
27	5.1 MI NNW	5/15/2007	7.8	0.9
27	5.1 MI NNW	8/15/2007	9.8	0.5
27	5.1 MI NNW	11/15/2007	8.6	0.7
28	4.2 MI NW	2/15/2007	10.3	1.2
28	4.2 MI NW	5/15/2007	8.7	1.1
28	4.2 MI NW	8/15/2007	10.9	0.9
28	4.2 MI NW	11/15/2007	9.5	0.7
29	2.6 MI SSW	2/15/2007	9.5	1.1
29	2.6 MI SSW	5/15/2007	8.7	1
29	2.6 MI SSW	8/15/2007	9.3	0.6
29	2.6 MI SSW	11/15/2007	8.1	0.9
30	2.0 MI NE	2/15/2007	12.6	1
30	2.0 MI NE	5/15/2007	9.5	1.6
30	2.0 MI NE	8/15/2007	12.1	1.1
30	2.0 MI NE	11/15/2007	9.9	1
31	2.5 MI ENE	2/15/2007	10.2	1.1
31	2.5 MI ENE	5/15/2007	9.9	0.7

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
31	2.5 MI ENE	8/15/2007	9.6	1
31	2.5 MI ENE	11/15/2007	10.5	1.9
32	5.8 MI ENE	2/15/2007	11.4	1.2
32	5.8 MI ENE	5/15/2007	10.9	0.7
32	5.8 MI ENE	8/15/2007	11.7	1.4
32	5.8 MI ENE	11/15/2007	11	1
33	4.1 MI E	2/15/2007	9.3	1.5
33	4.1 MI E	5/15/2007	8.1	1.4
33	4.1 MI E	8/15/2007	9	0.8
33	4.1 MI E	11/15/2007	8.8	1.2
34	5.4 MI E	2/15/2007	9.4	1.6
34	5.4 MI E	5/15/2007	8.6	0.9
34	5.4 MI E	8/15/2007	9	0.9
34	5.4 MI E	11/15/2007	9.2	0.8
35	7.3 MI SSE	2/15/2007	8.1	1.1
35	7.3 MI SSE	5/15/2007	7.7	1.5
35	7.3 MI SSE	8/15/2007	7.7	0.6
35	7.3 MI SSE	11/15/2007	8.4	0.9
36	8.9 MI NE	2/15/2007	10.4	1.6
36	8.9 MI NE	5/15/2007	9.5	0.9
36	8.9 MI NE	8/15/2007	10.1	1.9
36	8.9 MI NE	11/15/2007	9.8	0.8
37	5.5 MI NW	2/15/2007	9.1	1.5
37	5.5 MI NW	5/15/2007	7.6	0.8

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
37	5.5 MI NW	8/15/2007	8.6	0.5
37	5.5 MI NW	11/15/2007	8.3	0.9
38	11.0 MI W	2/15/2007	9.4	1
38	11.0 MI W	5/15/2007	8	1
38	11.0 MI W	8/15/2007	9.5	1
38	11.0 MI W	11/15/2007	8.7	1.6
39	5.3 MI SW	2/15/2007	9.1	1.1
39	5.3 MI SW	5/15/2007	9	1.5
39	5.3 MI SW	8/15/2007	9.1	0.7
40	6.9 MI WSW	2/15/2007	9.1	1.5
40	6.9 MI WSW	5/15/2007	8.6	0.7
40	6.9 MI WSW	8/15/2007	9.1	0.7
75	4.7 MI S	2/15/2007	11	1.2
75	4.7 MI S	5/15/2007	9.4	0.8
75	4.7 MI S	8/15/2007	10.1	1.1
75	4.7 MI S	11/15/2007	10.3	0.8
76	4.8 MI SSW	2/15/2007	13.2	1.4
76	4.8 MI SSW	5/15/2007	10.2	0.7
76	4.8 MI SSW	8/15/2007	12.6	1.2
76	4.8 MI SSW	11/15/2007	10.6	1.8
77	5.4 MI S	2/15/2007	9.8	1
77	5.4 MI S	5/15/2007	7.1	0.9
77	5.4 MI S	8/15/2007	9.3	0.8
77	5.4 MI S	11/15/2007	7.2	0.7

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
78	9.9 MI NNE	2/15/2007	9.3	1.6
78	9.9 MI NNE	5/15/2007	8.5	0.9
78	9.9 MI NNE	8/15/2007	9	1.3
78	9.9 MI NNE	11/15/2007	9.6	0.9
79	9.5 MI N	2/15/2007	11.7	1.4
79	9.5 MI N	5/15/2007	9.3	1
79	9.5 MI N	8/15/2007	12.2	0.4
79	9.5 MI N	11/15/2007	9.8	0.9
81	9.9 MI WNW - CONTROL	2/15/2007	11.7	1.7
81	9.9 MI WNW - CONTROL	5/15/2007	9.5	1.6
81	9.9 MI WNW - CONTROL	8/15/2007	11.6	1.3
81	9.9 MI WNW - CONTROL	11/15/2007	9.6	0.9

2007 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.

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
200	1.0 MI WSW - VISITORS CENTER	1/1/2007	277.7	3.88E-01	1.37E-02	2.87E-03	3.14E-03
200	1.0 MI WSW - VISITORS CENTER	1/8/2007	282.2	3.88E-01	1.38E-02	2.87E-03	3.16E-03
200	1.0 MI WSW - VISITORS CENTER	1/15/2007	280.7	3.88E-01	1.22E-02	2.73E-03	3.04E-03
200	1.0 MI WSW - VISITORS CENTER	1/22/2007	283.9	3.88E-01	1.31E-02	2.86E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	1/29/2007	271.1	3.88E-01	2.11E-02	3.45E-03	3.57E-03
200	1.0 MI WSW - VISITORS CENTER	2/5/2007	282.4	3.88E-01	2.82E-02	3.71E-03	3.49E-03
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	273.4	3.88E-01	2.89E-02	3.71E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	2/19/2007	277.9	3.88E-01	2.01E-02	3.28E-03	3.30E-03
200	1.0 MI WSW - VISITORS CENTER	2/26/2007	278.5	3.88E-01	2.32E-02	3.36E-03	3.11E-03
200	1.0 MI WSW - VISITORS CENTER	3/5/2007	281	3.88E-01	1.79E-02	3.15E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	3/12/2007	280.8	3.88E-01	2.07E-02	3.26E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	3/19/2007	283.2	3.88E-01	1.88E-02	3.18E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	3/26/2007	288.9	3.88E-01	1.85E-02	3.13E-03	3.24E-03
200	1.0 MI WSW - VISITORS CENTER	4/2/2007	289.1	3.88E-01	1.95E-02	3.09E-03	2.99E-03
200	1.0 MI WSW - VISITORS CENTER	4/9/2007	287.8	3.88E-01	2.03E-02	3.17E-03	3.08E-03
200	1.0 MI WSW - VISITORS CENTER	4/16/2007	284	3.88E-01	1.65E-02	2.99E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	4/23/2007	284.4	3.88E-01	1.22E-02	2.85E-03	3.36E-03
200	1.0 MI WSW - VISITORS CENTER	4/30/2007	294.2	3.70E-01	1.47E-02	2.93E-03	3.18E-03
200	1.0 MI WSW - VISITORS CENTER	5/7/2007	287.5	3.70E-01	1.84E-02	3.10E-03	3.03E-03
200	1.0 MI WSW - VISITORS CENTER	5/14/2007	288.7	3.70E-01	8.52E-03	2.56E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	5/21/2007	286.6	3.70E-01	1.59E-02	3.03E-03	3.22E-03
200	1.0 MI WSW - VISITORS CENTER	5/28/2007	289.5	3.70E-01	2.14E-02	3.39E-03	3.42E-03
200	1.0 MI WSW - VISITORS CENTER	6/4/2007	294.8	3.70E-01	2.04E-02	3.13E-03	2.88E-03
200	1.0 MI WSW - VISITORS CENTER	6/11/2007	291.8	3.70E-01	1.85E-02	3.19E-03	3.30E-03
200	1.0 MI WSW - VISITORS CENTER	6/18/2007	283.6	3.70E-01	1.06E-02	2.75E-03	3.25E-03
200	1.0 MI WSW - VISITORS CENTER	6/25/2007	281	3.70E-01	1.99E-02	3.26E-03	3.18E-03
200	1.0 MI WSW - VISITORS CENTER	7/2/2007	297.2	3.70E-01	1.43E-02	2.95E-03	3.31E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
200	1.0 MI WSW - VISITORS CENTER	7/9/2007	286.5	3.70E-01	1.25E-02	2.83E-03	3.19E-03
200	1.0 MI WSW - VISITORS CENTER	7/16/2007	288.7	3.70E-01	1.37E-02	3.16E-03	3.81E-03
200	1.0 MI WSW - VISITORS CENTER	7/23/2007	284.9	3.70E-01	1.28E-02	2.63E-03	2.61E-03
200	1.0 MI WSW - VISITORS CENTER	7/30/2007	280.4	3.70E-01	1.46E-02	2.93E-03	3.08E-03
200	1.0 MI WSW - VISITORS CENTER	8/6/2007	281.1	3.70E-01	1.82E-02	3.14E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	8/13/2007	282.2	3.70E-01	3.10E-02	3.71E-03	2.87E-03
200	1.0 MI WSW - VISITORS CENTER	8/20/2007	281.5	3.70E-01	2.75E-02	3.71E-03	3.40E-03
200	1.0 MI WSW - VISITORS CENTER	8/27/2007	282.3	3.70E-01	1.51E-02	2.83E-03	2.76E-03
200	1.0 MI WSW - VISITORS CENTER	9/3/2007	279.5	3.70E-01	2.40E-02	3.47E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	9/10/2007	282.8	3.70E-01	2.31E-02	3.44E-03	3.23E-03
200	1.0 MI WSW - VISITORS CENTER	9/17/2007	285.2	3.70E-01	1.02E-02	2.77E-03	3.38E-03
200	1.0 MI WSW - VISITORS CENTER	9/24/2007	272.7	3.70E-01	8.75E-03	2.70E-03	3.35E-03
200	1.0 MI WSW - VISITORS CENTER	10/1/2007	288.7	3.70E-01	1.91E-02	3.22E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	10/8/2007	278.6	3.70E-01	1.08E-02	2.77E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	10/15/2007	280.1	3.70E-01	1.76E-02	3.05E-03	2.95E-03
200	1.0 MI WSW - VISITORS CENTER	10/22/2007	283.4	3.70E-01	2.35E-02	3.38E-03	3.02E-03
200	1.0 MI WSW - VISITORS CENTER	10/29/2007	275.6	3.70E-01	1.93E-02	3.20E-03	3.03E-03
200	1.0 MI WSW - VISITORS CENTER	11/5/2007	274.1	3.70E-01	2.38E-02	3.36E-03	2.78E-03
200	1.0 MI WSW - VISITORS CENTER	11/12/2007	272.3	3.70E-01	2.80E-02	3.86E-03	3.63E-03
200	1.0 MI WSW - VISITORS CENTER	11/19/2007	270	3.70E-01	3.24E-02	3.91E-03	3.14E-03
200	1.0 MI WSW - VISITORS CENTER	11/26/2007	272.7	3.70E-01	2.26E-02	3.43E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	12/3/2007	275.1	3.70E-01	2.24E-02	3.42E-03	3.19E-03
200	1.0 MI WSW - VISITORS CENTER	12/10/2007	271.3	3.70E-01	3.07E-02	3.91E-03	3.40E-03
200	1.0 MI WSW - VISITORS CENTER	12/17/2007	272.1	3.70E-01	2.09E-02	3.38E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	12/24/2007	258	3.70E-01	2.24E-02	3.66E-03	3.65E-03
200	1.0 MI WSW - VISITORS CENTER	12/31/2007	271.6	3.70E-01	2.41E-02	3.52E-03	3.18E-03
201	0.5 MI NE - PMAC	1/1/2007	267.6	3.88E-01	1.68E-02	3.12E-03	3.26E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
201	0.5 MI NE - PMAC	1/8/2007	271.2	3.88E-01	1.28E-02	2.89E-03	3.29E-03
201	0.5 MI NE - PMAC	1/15/2007	270.1	3.88E-01	1.67E-02	3.53E-03	3.86E-03
201	0.5 MI NE - PMAC	1/22/2007	269.4	3.88E-01	1.34E-02	3.00E-03	3.43E-03
201	0.5 MI NE - PMAC	1/29/2007	252.6	3.88E-01	1.71E-02	3.42E-03	3.83E-03
201	0.5 MI NE - PMAC	2/5/2007	299.9	3.88E-01	2.50E-02	3.42E-03	3.29E-03
201	0.5 MI NE - PMAC	2/12/2007	293.7	3.88E-01	2.96E-02	3.57E-03	3.04E-03
201	0.5 MI NE - PMAC	2/19/2007	297	3.88E-01	2.20E-02	3.22E-03	3.09E-03
201	0.5 MI NE - PMAC	2/26/2007	300.8	3.88E-01	2.06E-02	3.07E-03	2.88E-03
201	0.5 MI NE - PMAC	3/5/2007	305.7	3.88E-01	2.06E-02	3.10E-03	3.02E-03
201	0.5 MI NE - PMAC	3/12/2007	295.9	3.88E-01	2.10E-02	3.16E-03	3.04E-03
201	0.5 MI NE - PMAC	3/19/2007	307.5	3.88E-01	2.27E-02	3.20E-03	3.03E-03
201	0.5 MI NE - PMAC	3/26/2007	282.4	3.88E-01	2.05E-02	3.28E-03	3.32E-03
201	0.5 MI NE - PMAC	4/2/2007	277.1	3.88E-01	1.89E-02	3.15E-03	3.12E-03
201	0.5 MI NE - PMAC	4/9/2007	284.6	3.88E-01	1.91E-02	3.13E-03	3.11E-03
201	0.5 MI NE - PMAC	4/16/2007	280	3.88E-01	1.78E-02	3.09E-03	3.14E-03
201	0.5 MI NE - PMAC	4/23/2007	278.8	3.88E-01	1.17E-02	2.87E-03	3.43E-03
201	0.5 MI NE - PMAC	4/30/2007	287.2	3.70E-01	1.37E-02	2.93E-03	3.26E-03
201	0.5 MI NE - PMAC	5/7/2007	277.1	3.70E-01	2.27E-02	3.41E-03	3.15E-03
201	0.5 MI NE - PMAC	5/14/2007	283.3	3.70E-01	8.25E-03	2.58E-03	3.23E-03
201	0.5 MI NE - PMAC	5/21/2007	283.5	3.70E-01	1.63E-02	3.08E-03	3.25E-03
201	0.5 MI NE - PMAC	5/28/2007	280	3.70E-01	1.97E-02	3.38E-03	3.53E-03
201	0.5 MI NE - PMAC	6/4/2007	285.9	3.70E-01	2.37E-02	3.36E-03	2.97E-03
201	0.5 MI NE - PMAC	6/11/2007	281.7	3.70E-01	2.16E-02	3.43E-03	3.42E-03
201	0.5 MI NE - PMAC	6/18/2007	281.1	3.70E-01	1.29E-02	2.90E-03	3.28E-03
201	0.5 MI NE - PMAC	6/25/2007	284	3.70E-01	2.19E-02	3.34E-03	3.15E-03
201	0.5 MI NE - PMAC	7/2/2007	290.3	3.70E-01	1.46E-02	3.02E-03	3.38E-03
201	0.5 MI NE - PMAC	7/9/2007	282.8	3.70E-01	1.47E-02	2.99E-03	3.23E-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	Efficiency	Activity	2 Sigma Error	LLD
201	0.5 MI NE - PMAC	7/16/2007	282.8	3.70E-01	1.32E-02	3.18E-03	3.89E-03
201	0.5 MI NE - PMAC	7/23/2007	289.1	3.70E-01	1.48E-02	2.73E-03	2.57E-03
201	0.5 MI NE - PMAC	7/30/2007	281.2	3.70E-01	1.60E-02	3.00E-03	3.07E-03
201	0.5 MI NE - PMAC	8/6/2007	287.6	3.70E-01	1.71E-02	3.03E-03	3.03E-03
201	0.5 MI NE - PMAC	8/13/2007	287.4	3.70E-01	3.31E-02	3.76E-03	2.82E-03
201	0.5 MI NE - PMAC	8/20/2007	286.7	3.70E-01	2.68E-02	3.64E-03	3.33E-03
201	0.5 MI NE - PMAC	8/27/2007	287.9	3.70E-01	1.29E-02	2.66E-03	2.70E-03
201	0.5 MI NE - PMAC	9/3/2007	283.6	3.70E-01	2.52E-02	3.50E-03	3.12E-03
201	0.5 MI NE - PMAC	9/10/2007	286.8	3.70E-01	2.45E-02	3.48E-03	3.19E-03
201	0.5 MI NE - PMAC	9/17/2007	290.2	3.70E-01	9.82E-03	2.71E-03	3.32E-03
201	0.5 MI NE - PMAC	9/24/2007	281.9	3.70E-01	9.41E-03	2.67E-03	3.25E-03
201	0.5 MI NE - PMAC	10/1/2007	286.6	3.70E-01	1.95E-02	3.26E-03	3.29E-03
201	0.5 MI NE - PMAC	10/8/2007	284.5	3.70E-01	1.09E-02	2.73E-03	3.19E-03
201	0.5 MI NE - PMAC	10/15/2007	279.6	3.70E-01	2.26E-02	3.33E-03	2.95E-03
201	0.5 MI NE - PMAC	10/22/2007	286.2	3.70E-01	2.04E-02	3.20E-03	2.99E-03
201	0.5 MI NE - PMAC	10/29/2007	280.1	3.70E-01	1.67E-02	3.01E-03	2.98E-03
201	0.5 MI NE - PMAC	11/5/2007	280.8	3.70E-01	2.71E-02	3.48E-03	2.71E-03
201	0.5 MI NE - PMAC	11/12/2007	274.1	3.70E-01	2.97E-02	3.92E-03	3.61E-03
201	0.5 MI NE - PMAC	11/19/2007	274.4	3.70E-01	3.58E-02	4.03E-03	3.09E-03
201	0.5 MI NE - PMAC	11/26/2007	280.9	3.70E-01	2.38E-02	3.42E-03	3.08E-03
201	0.5 MI NE - PMAC	12/3/2007	276.1	3.70E-01	2.49E-02	3.54E-03	3.18E-03
201	0.5 MI NE - PMAC	12/10/2007	273.7	3.70E-01	2.93E-02	3.82E-03	3.37E-03
201	0.5 MI NE - PMAC	12/17/2007	278.3	3.70E-01	2.17E-02	3.37E-03	3.18E-03
201	0.5 MI NE - PMAC	12/24/2007	265.2	3.70E-01	2.05E-02	3.49E-03	3.55E-03
201	0.5 MI NE - PMAC	12/31/2007	275.4	3.70E-01	2.55E-02	3.55E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/1/2007	275.5	3.88E-01	1.63E-02	3.03E-03	3.17E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/8/2007	279.6	3.88E-01	1.10E-02	2.72E-03	3.19E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/15/2007	276	3.88E-01	1.46E-02	2.90E-03	3.09E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/22/2007	280	3.88E-01	1.14E-02	2.79E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/29/2007	267.3	3.88E-01	2.03E-02	3.45E-03	3.62E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/5/2007	275.7	3.88E-01	2.60E-02	3.67E-03	3.58E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/12/2007	271.2	3.88E-01	2.85E-02	3.71E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/19/2007	271.1	3.88E-01	2.36E-02	3.51E-03	3.39E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/26/2007	273.7	3.88E-01	1.80E-02	3.03E-03	3.02E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/5/2007	273.7	3.88E-01	1.81E-02	3.21E-03	3.38E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/12/2007	273.7	3.88E-01	1.93E-02	3.25E-03	3.28E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/19/2007	276.6	3.88E-01	2.12E-02	3.36E-03	3.37E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/26/2007	285.7	3.88E-01	1.89E-02	3.18E-03	3.28E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/2/2007	285.9	3.88E-01	1.69E-02	2.98E-03	3.03E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/9/2007	285.8	3.88E-01	2.19E-02	3.27E-03	3.10E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/16/2007	287	3.88E-01	1.80E-02	3.04E-03	3.06E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/23/2007	282.9	3.88E-01	1.23E-02	2.87E-03	3.38E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/30/2007	292.3	3.70E-01	1.80E-02	3.13E-03	3.20E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/7/2007	285.4	3.70E-01	2.09E-02	3.25E-03	3.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/14/2007	289.7	3.70E-01	9.83E-03	2.64E-03	3.16E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/21/2007	286.1	3.70E-01	1.70E-02	3.10E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/28/2007	287.3	3.70E-01	2.36E-02	3.52E-03	3.44E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/4/2007	297	3.70E-01	2.39E-02	3.30E-03	2.86E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/11/2007	293.7	3.70E-01	1.94E-02	3.22E-03	3.28E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/18/2007	286.7	3.70E-01	1.20E-02	2.81E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/25/2007	286	3.70E-01	1.98E-02	3.22E-03	3.12E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/2/2007	300.4	3.70E-01	1.61E-02	3.03E-03	3.27E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/9/2007	288.9	3.70E-01	1.40E-02	2.90E-03	3.17E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/16/2007	291.5	3.70E-01	1.24E-02	3.07E-03	3.77E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/23/2007	293	3.70E-01	1.52E-02	2.73E-03	2.54E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/30/2007	292.5	3.70E-01	1.56E-02	2.90E-03	2.95E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/6/2007	293.3	3.70E-01	1.90E-02	3.09E-03	2.97E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/13/2007	293.1	3.70E-01	3.31E-02	3.72E-03	2.76E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/20/2007	292	3.70E-01	2.52E-02	3.51E-03	3.27E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/27/2007	292.7	3.70E-01	1.27E-02	2.61E-03	2.66E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/3/2007	290.5	3.70E-01	2.25E-02	3.31E-03	3.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/10/2007	292.5	3.70E-01	2.21E-02	3.31E-03	3.13E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/17/2007	295.2	3.70E-01	1.05E-02	2.72E-03	3.26E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/24/2007	285.1	3.70E-01	8.71E-03	2.60E-03	3.21E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/1/2007	295	3.70E-01	1.77E-02	3.10E-03	3.19E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/8/2007	287.3	3.70E-01	1.15E-02	2.75E-03	3.16E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/15/2007	288.5	3.70E-01	2.21E-02	3.24E-03	2.86E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/22/2007	296.1	3.70E-01	2.26E-02	3.24E-03	2.89E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/29/2007	284.4	3.70E-01	1.55E-02	2.91E-03	2.93E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/5/2007	284.7	3.70E-01	2.42E-02	3.30E-03	2.67E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/12/2007	283.6	3.70E-01	2.69E-02	3.70E-03	3.49E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/19/2007	280.6	3.70E-01	3.32E-02	3.86E-03	3.03E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/26/2007	283.9	3.70E-01	2.32E-02	3.37E-03	3.04E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/3/2007	285.2	3.70E-01	2.28E-02	3.36E-03	3.08E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/10/2007	282.1	3.70E-01	2.91E-02	3.74E-03	3.27E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/17/2007	282.8	3.70E-01	1.95E-02	3.21E-03	3.13E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/24/2007	273.9	3.70E-01	1.75E-02	3.25E-03	3.44E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/31/2007	284.6	3.70E-01	2.41E-02	3.41E-03	3.04E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/1/2007	271.5	3.88E-01	1.59E-02	3.04E-03	3.21E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/8/2007	275.3	3.88E-01	1.37E-02	2.92E-03	3.24E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/15/2007	272.5	3.88E-01	1.34E-02	2.86E-03	3.13E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/22/2007	276	3.88E-01	1.33E-02	2.93E-03	3.35E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/29/2007	263.4	3.88E-01	1.79E-02	3.36E-03	3.67E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/5/2007	274.5	3.88E-01	2.35E-02	3.56E-03	3.59E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/12/2007	270.6	3.88E-01	2.54E-02	3.57E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/19/2007	272	3.88E-01	2.08E-02	3.36E-03	3.38E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/26/2007	272.9	3.88E-01	1.84E-02	3.16E-03	3.17E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/5/2007	273	3.88E-01	1.99E-02	3.32E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/12/2007	272	3.88E-01	2.11E-02	3.35E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/19/2007	274.8	3.88E-01	2.26E-02	3.45E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/26/2007	282.6	3.88E-01	1.96E-02	3.24E-03	3.32E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/2/2007	285.3	3.88E-01	1.96E-02	3.13E-03	3.03E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/9/2007	284.9	3.88E-01	2.04E-02	3.19E-03	3.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/16/2007	284.7	3.88E-01	2.03E-02	3.18E-03	3.09E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/23/2007	280.5	3.88E-01	1.14E-02	2.84E-03	3.41E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/30/2007	290.8	3.70E-01	1.56E-02	3.00E-03	3.22E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/7/2007	283.8	3.70E-01	2.30E-02	3.37E-03	3.07E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/14/2007	287	3.70E-01	7.38E-03	2.50E-03	3.19E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/21/2007	285	3.70E-01	1.75E-02	3.14E-03	3.23E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/28/2007	285.1	3.70E-01	2.49E-02	3.60E-03	3.47E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/4/2007	293.4	3.70E-01	2.37E-02	3.31E-03	2.89E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/11/2007	293.1	3.70E-01	1.64E-02	3.07E-03	3.28E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/18/2007	284.6	3.70E-01	1.20E-02	2.82E-03	3.24E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/25/2007	284.5	3.70E-01	2.34E-02	3.41E-03	3.14E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/2/2007	291.3	3.70E-01	1.50E-02	3.04E-03	3.37E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/9/2007	279	3.70E-01	1.21E-02	2.86E-03	3.28E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/16/2007	283	3.70E-01	1.38E-02	3.21E-03	3.89E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/23/2007	284.1	3.70E-01	1.60E-02	2.83E-03	2.62E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/30/2007	281.3	3.70E-01	1.52E-02	2.96E-03	3.07E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/6/2007	282.4	3.70E-01	1.73E-02	3.08E-03	3.09E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/13/2007	283.9	3.70E-01	3.16E-02	3.72E-03	2.85E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/20/2007	282.7	3.70E-01	3.14E-02	3.87E-03	3.38E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/27/2007	283	3.70E-01	1.34E-02	2.72E-03	2.75E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/3/2007	279.3	3.70E-01	2.38E-02	3.47E-03	3.17E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/10/2007	281.3	3.70E-01	2.58E-02	3.58E-03	3.25E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/17/2007	284	3.70E-01	1.23E-02	2.90E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/24/2007	269.5	3.70E-01	8.85E-03	2.73E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/1/2007	285.3	3.70E-01	1.98E-02	3.28E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/8/2007	274.3	3.70E-01	1.15E-02	2.85E-03	3.31E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/15/2007	275.1	3.70E-01	2.36E-02	3.42E-03	3.00E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/22/2007	279.2	3.70E-01	2.77E-02	3.63E-03	3.07E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/29/2007	272.4	3.70E-01	1.80E-02	3.14E-03	3.06E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/5/2007	270.7	3.70E-01	2.58E-02	3.49E-03	2.81E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/12/2007	269.1	3.70E-01	3.38E-02	4.15E-03	3.68E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/19/2007	266.7	3.70E-01	3.66E-02	4.14E-03	3.18E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/26/2007	271.6	3.70E-01	2.40E-02	3.51E-03	3.18E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/3/2007	270.7	3.70E-01	2.63E-02	3.65E-03	3.25E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/10/2007	267.9	3.70E-01	3.01E-02	3.91E-03	3.44E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/17/2007	267.5	3.70E-01	2.09E-02	3.42E-03	3.31E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/24/2007	259.1	3.70E-01	2.19E-02	3.62E-03	3.64E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/31/2007	268.6	3.70E-01	2.67E-02	3.67E-03	3.22E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/1/2007	272.8	3.88E-01	1.58E-02	3.03E-03	3.20E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/8/2007	275.8	3.88E-01	1.46E-02	2.96E-03	3.24E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/15/2007	273	3.88E-01	1.27E-02	2.81E-03	3.12E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/22/2007	270.6	3.88E-01	1.24E-02	2.93E-03	3.42E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/29/2007	270.1	3.88E-01	1.76E-02	3.28E-03	3.58E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/5/2007	268.6	3.88E-01	2.79E-02	3.82E-03	3.67E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	268.6	3.88E-01	2.56E-02	3.59E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/19/2007	268.8	3.88E-01	2.44E-02	3.57E-03	3.42E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/26/2007	271.9	3.88E-01	2.13E-02	3.32E-03	3.18E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/5/2007	273.1	3.88E-01	1.71E-02	3.17E-03	3.39E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/12/2007	270.7	3.88E-01	2.24E-02	3.43E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/19/2007	273.9	3.88E-01	2.12E-02	3.38E-03	3.40E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/26/2007	277.4	3.88E-01	2.09E-02	3.35E-03	3.38E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/2/2007	275	3.88E-01	1.87E-02	3.15E-03	3.15E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/9/2007	264.4	3.88E-01	2.45E-02	3.57E-03	3.35E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/16/2007	255.5	3.88E-01	2.36E-02	3.60E-03	3.44E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/23/2007	272.8	3.88E-01	1.48E-02	3.09E-03	3.50E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/30/2007	288.3	3.70E-01	1.84E-02	3.18E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/7/2007	289.8	3.70E-01	2.15E-02	3.25E-03	3.01E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	288.7	3.70E-01	1.13E-02	2.74E-03	3.17E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/21/2007	286.6	3.70E-01	2.01E-02	3.26E-03	3.22E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/28/2007	292.3	3.70E-01	2.63E-02	3.60E-03	3.38E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/4/2007	295.5	3.70E-01	2.42E-02	3.32E-03	2.87E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/11/2007	295.9	3.70E-01	2.12E-02	3.30E-03	3.25E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/18/2007	295.9	3.70E-01	1.42E-02	2.87E-03	3.12E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/25/2007	290.9	3.70E-01	2.31E-02	3.35E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/2/2007	293	3.70E-01	1.63E-02	3.09E-03	3.35E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/9/2007	289.6	3.70E-01	1.54E-02	2.97E-03	3.16E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/16/2007	290.5	3.70E-01	1.42E-02	3.17E-03	3.79E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/23/2007	289.1	3.70E-01	2.00E-02	3.03E-03	2.57E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/30/2007	288.5	3.70E-01	1.41E-02	2.84E-03	3.00E-03

RSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/6/2007	289.1	3.70E-01	2.11E-02	3.23E-03	3.01E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/13/2007	291.3	3.70E-01	3.43E-02	3.78E-03	2.78E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/20/2007	290.6	3.70E-01	2.97E-02	3.73E-03	3.29E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/27/2007	289.8	3.70E-01	1.64E-02	2.86E-03	2.68E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/3/2007	288.9	3.70E-01	2.68E-02	3.54E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/10/2007	286.8	3.70E-01	2.59E-02	3.54E-03	3.19E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/17/2007	288.4	3.70E-01	1.43E-02	2.99E-03	3.34E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/24/2007	281	3.70E-01	9.36E-03	2.67E-03	3.26E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/1/2007	286	3.70E-01	2.01E-02	3.29E-03	3.30E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/8/2007	283.4	3.70E-01	1.40E-02	2.93E-03	3.20E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/15/2007	279.7	3.70E-01	2.25E-02	3.32E-03	2.95E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/22/2007	279.3	3.70E-01	2.54E-02	3.51E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/29/2007	275.5	3.70E-01	1.71E-02	3.07E-03	3.03E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/5/2007	265.5	3.70E-01	2.93E-02	3.71E-03	2.87E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/12/2007	231.5	3.70E-01	4.12E-02	4.91E-03	4.27E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/19/2007	232	3.70E-01	4.27E-02	4.78E-03	3.66E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/26/2007	296.1	3.70E-01	2.60E-02	3.42E-03	2.92E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/3/2007	280.5	3.70E-01	2.56E-02	3.54E-03	3.13E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/10/2007	277.7	3.70E-01	2.70E-02	3.68E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/17/2007	279.3	3.70E-01	2.13E-02	3.34E-03	3.17E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/24/2007	276.6	3.70E-01	2.00E-02	3.36E-03	3.41E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/31/2007	281.2	3.70E-01	2.46E-02	3.46E-03	3.07E-03
205	0.6 MI SSE - SPOIL POND	1/1/2007	283.3	3.88E-01	1.38E-02	2.83E-03	3.08E-03
205	0.6 MI SSE - SPOIL POND	1/8/2007	286.7	3.88E-01	1.43E-02	2.87E-03	3.11E-03
205	0.6 MI SSE - SPOIL POND	1/15/2007	285.4	3.88E-01	1.12E-02	2.63E-03	2.99E-03
205	0.6 MI SSE - SPOIL POND	1/22/2007	288.8	3.88E-01	1.46E-02	2.91E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	1/29/2007	276.1	3.88E-01	1.74E-02	3.22E-03	3.51E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
205	0.6 MI SSE - SPOIL POND	2/5/2007	287.1	3.88E-01	2.94E-02	3.72E-03	3.43E-03
205	0.6 MI SSE - SPOIL POND	2/12/2007	281.5	3.88E-01	2.52E-02	3.47E-03	3.17E-03
205	0.6 MI SSE - SPOIL POND	2/19/2007	282.1	3.88E-01	1.87E-02	3.17E-03	3.25E-03
205	0.6 MI SSE - SPOIL POND	2/26/2007	283.4	3.88E-01	1.93E-02	3.12E-03	3.05E-03
205	0.6 MI SSE - SPOIL POND	3/5/2007	282.7	3.88E-01	2.06E-02	3.27E-03	3.27E-03
205	0.6 MI SSE - SPOIL POND	3/12/2007	283	3.88E-01	1.95E-02	3.18E-03	3.18E-03
205	0.6 MI SSE - SPOIL POND	3/19/2007	285.4	3.88E-01	2.09E-02	3.27E-03	3.26E-03
205	0.6 MI SSE - SPOIL POND	3/26/2007	285.4	3.88E-01	1.94E-02	3.21E-03	3.28E-03
205	0.6 MI SSE - SPOIL POND	4/2/2007	284.9	3.88E-01	1.70E-02	2.99E-03	3.04E-03
205	0.6 MI SSE - SPOIL POND	4/9/2007	282	3.88E-01	1.98E-02	3.19E-03	3.14E-03
205	0.6 MI SSE - SPOIL POND	4/16/2007	282.5	3.88E-01	2.04E-02	3.20E-03	3.11E-03
205	0.6 MI SSE - SPOIL POND	4/23/2007	274.8	3.88E-01	1.27E-02	2.96E-03	3.48E-03
205	0.6 MI SSE - SPOIL POND	4/30/2007	291.1	3.70E-01	1.64E-02	3.05E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	5/7/2007	282	3.46E-01	2.09E-02	3.58E-03	3.73E-03
205	0.6 MI SSE - SPOIL POND	5/14/2007	284.8	3.70E-01	8.63E-03	2.60E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	5/21/2007	282.9	3.70E-01	1.77E-02	3.16E-03	3.26E-03
205	0.6 MI SSE - SPOIL POND	5/28/2007	284.5	3.70E-01	2.20E-02	3.46E-03	3.48E-03
205	0.6 MI SSE - SPOIL POND	6/4/2007	294.1	3.70E-01	2.25E-02	3.24E-03	2.89E-03
205	0.6 MI SSE - SPOIL POND	6/11/2007	291.5	3.70E-01	1.83E-02	3.18E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	6/18/2007	283.7	3.70E-01	1.33E-02	2.91E-03	3.25E-03
205	0.6 MI SSE - SPOIL POND	6/25/2007	284.1	3.70E-01	2.17E-02	3.33E-03	3.14E-03
205	0.6 MI SSE - SPOIL POND	7/2/2007	298.1	3.70E-01	1.46E-02	2.96E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	7/9/2007	284.8	3.70E-01	1.18E-02	2.80E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	7/16/2007	289.1	3.70E-01	1.32E-02	3.13E-03	3.81E-03
205	0.6 MI SSE - SPOIL POND	7/23/2007	289.8	3.70E-01	1.75E-02	2.88E-03	2.57E-03
205	0.6 MI SSE - SPOIL POND	7/30/2007	288.6	3.70E-01	1.69E-02	3.00E-03	2.99E-03
205	0.6 MI SSE - SPOIL POND	8/6/2007	289.7	3.70E-01	1.98E-02	3.16E-03	3.01E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point		Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
205	0.6 MI SSE - SPOIL POND	8/13/2007	289.8	3.70E-01	2.90E-02	3.55E-03	2.80E-03
205	0.6 MI SSE - SPOIL POND	8/20/2007	289.3	3.70E-01	2.78E-02	3.66E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	8/27/2007	289.7	3.70E-01	1.36E-02	2.69E-03	2.69E-03
205	0.6 MI SSE - SPOIL POND	9/3/2007	287.5	3.70E-01	2.07E-02	3.24E-03	3.08E-03
205	0.6 MI SSE - SPOIL POND	9/10/2007	287.9	3.70E-01	2.41E-02	3.45E-03	3.18E-03
205	0.6 MI SSE - SPOIL POND	9/17/2007	291.8	3.70E-01	1.24E-02	2.86E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	9/24/2007	279.4	3.70E-01	9.85E-03	2.72E-03	3.27E-03
205	0.6 MI SSE - SPOIL POND	10/1/2007	290.6	3.70E-01	1.68E-02	3.08E-03	3.24E-03
205	0.6 MI SSE - SPOIL POND	10/8/2007	281.5	3.70E-01	1.38E-02	2.93E-03	3.22E-03
205	0.6 MI SSE - SPOIL POND	10/15/2007	285.4	3.70E-01	2.24E-02	3.28E-03	2.89E-03
205	0.6 MI SSE - SPOIL POND	10/22/2007	288.9	3.70E-01	2.39E-02	3.36E-03	2.97E-03
205	0.6 MI SSE - SPOIL POND	10/29/2007	282.2	3.70E-01	1.58E-02	2.94E-03	2.95E-03
205	0.6 MI SSE - SPOIL POND	11/5/2007	275.8	3.70E-01	2.46E-02	3.39E-03	2.76E-03
205	0.6 MI SSE - SPOIL POND	11/12/2007	259	3.70E-01	3.23E-02	4.19E-03	3.82E-03
205	0.6 MI SSE - SPOIL POND	11/19/2007	296	3.70E-01	3.18E-02	3.68E-03	2.87E-03
205	0.6 MI SSE - SPOIL POND	11/26/2007	306.7	3.70E-01	2.41E-02	3.25E-03	2.82E-03
205	0.6 MI SSE - SPOIL POND	12/3/2007	304.2	3.70E-01	2.60E-02	3.38E-03	2.89E-03
205	0.6 MI SSE - SPOIL POND	12/10/2007	282.6	3.70E-01	2.86E-02	3.71E-03	3.26E-03
205	0.6 MI SSE - SPOIL POND	12/17/2007	305.4	3.70E-01	1.84E-02	3.00E-03	2.90E-03
205	0.6 MI SSE - SPOIL POND	12/24/2007	258.4	3.70E-01	2.20E-02	3.63E-03	3.65E-03
205	0.6 MI SSE - SPOIL POND	12/31/2007	299.3	3.70E-01	2.16E-02	3.18E-03	2.89E-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	1/1/2007	277.7	<LLD	2.82E-02
200	1.0 MI WSW - VISITORS CENTER	1/8/2007	282.2	<LLD	2.37E-02
200	1.0 MI WSW - VISITORS CENTER	1/15/2007	280.7	<LLD	2.69E-02
200	1.0 MI WSW - VISITORS CENTER	1/22/2007	283.9	<LLD	2.38E-02
200	1.0 MI WSW - VISITORS CENTER	1/29/2007	271.1	<LLD	2.48E-02
200	1.0 MI WSW - VISITORS CENTER	2/5/2007	282.4	<LLD	1.99E-02
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	273.4	<LLD	2.76E-02
200	1.0 MI WSW - VISITORS CENTER	2/19/2007	277.9	<LLD	1.54E-02
200	1.0 MI WSW - VISITORS CENTER	2/26/2007	278.5	<LLD	2.29E-02
200	1.0 MI WSW - VISITORS CENTER	3/5/2007	281.0	<LLD	1.98E-02
200	1.0 MI WSW - VISITORS CENTER	3/12/2007	280.8	<LLD	2.59E-02
200	1.0 MI WSW - VISITORS CENTER	3/19/2007	283.2	<LLD	1.71E-02
200	1.0 MI WSW - VISITORS CENTER	3/26/2007	288.9	<LLD	2.31E-02
200	1.0 MI WSW - VISITORS CENTER	4/2/2007	289.1	<LLD	1.87E-02
200	1.0 MI WSW - VISITORS CENTER	4/9/2007	287.8	<LLD	2.36E-02
200	1.0 MI WSW - VISITORS CENTER	4/16/2007	284.0	<LLD	2.48E-02
200	1.0 MI WSW - VISITORS CENTER	4/23/2007	284.4	<LLD	2.62E-02
200	1.0 MI WSW - VISITORS CENTER	4/30/2007	294.2	<LLD	2.57E-02
200	1.0 MI WSW - VISITORS CENTER	5/7/2007	287.5	<LLD	2.20E-02
200	1.0 MI WSW - VISITORS CENTER	5/14/2007	288.7	<LLD	1.93E-02
200	1.0 MI WSW - VISITORS CENTER	5/21/2007	286.6	<LLD	2.01E-02
200	1.0 MI WSW - VISITORS CENTER	5/28/2007	289.5	<LLD	2.24E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<u>Sample Point</u>		<u>Sample Date</u>	<u>Quantity</u>	<u>Activity</u>	<u>LLD</u>
200	1.0 MI WSW - VISITORS CENTER	6/4/2007	294.8	<LLD	2.41E-02
200	1.0 MI WSW - VISITORS CENTER	6/11/2007	291.8	<LLD	2.13E-02
200	1.0 MI WSW - VISITORS CENTER	6/18/2007	283.6	<LLD	2.88E-02
200	1.0 MI WSW - VISITORS CENTER	6/25/2007	281.0	<LLD	2.21E-02
200	1.0 MI WSW - VISITORS CENTER	7/2/2007	297.2	<LLD	2.02E-02
200	1.0 MI WSW - VISITORS CENTER	7/9/2007	286.5	<LLD	1.74E-02
200	1.0 MI WSW - VISITORS CENTER	7/16/2007	288.7	<LLD	1.65E-02
200	1.0 MI WSW - VISITORS CENTER	7/23/2007	284.9	<LLD	1.91E-02
200	1.0 MI WSW - VISITORS CENTER	7/30/2007	280.4	<LLD	1.97E-02
200	1.0 MI WSW - VISITORS CENTER	8/6/2007	281.1	<LLD	1.38E-02
200	1.0 MI WSW - VISITORS CENTER	8/13/2007	282.2	<LLD	2.66E-02
200	1.0 MI WSW - VISITORS CENTER	8/20/2007	281.5	<LLD	1.72E-02
200	1.0 MI WSW - VISITORS CENTER	8/27/2007	282.3	<LLD	2.68E-02
200	1.0 MI WSW - VISITORS CENTER	9/3/2007	279.5	<LLD	1.78E-02
200	1.0 MI WSW - VISITORS CENTER	9/10/2007	282.8	<LLD	2.68E-02
200	1.0 MI WSW - VISITORS CENTER	9/17/2007	285.2	<LLD	2.09E-02
200	1.0 MI WSW - VISITORS CENTER	9/24/2007	272.7	<LLD	2.45E-02
200	1.0 MI WSW - VISITORS CENTER	10/1/2007	288.7	<LLD	2.26E-02
200	1.0 MI WSW - VISITORS CENTER	10/8/2007	278.6	<LLD	2.63E-02
200	1.0 MI WSW - VISITORS CENTER	10/15/2007	280.1	<LLD	2.66E-02
200	1.0 MI WSW - VISITORS CENTER	10/22/2007	283.4	<LLD	2.13E-02
200	1.0 MI WSW - VISITORS CENTER	10/29/2007	275.6	<LLD	1.87E-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	11/5/2007	274.1	<LLD	1.72E-02
200	1.0 MI WSW - VISITORS CENTER	11/12/2007	272.3	<LLD	1.99E-02
200	1.0 MI WSW - VISITORS CENTER	11/19/2007	270.0	<LLD	2.30E-02
200	1.0 MI WSW - VISITORS CENTER	11/26/2007	272.7	<LLD	2.12E-02
200	1.0 MI WSW - VISITORS CENTER	12/3/2007	275.1	<LLD	2.53E-02
200	1.0 MI WSW - VISITORS CENTER	12/10/2007	271.3	<LLD	2.09E-02
200	1.0 MI WSW - VISITORS CENTER	12/17/2007	272.1	<LLD	2.07E-02
200	1.0 MI WSW - VISITORS CENTER	12/24/2007	258.0	<LLD	2.25E-02
200	1.0 MI WSW - VISITORS CENTER	12/31/2007	271.6	<LLD	3.89E-02
201	0.5 MI NE - PMAC	1/1/2007	267.6	<LLD	2.37E-02
201	0.5 MI NE - PMAC	1/8/2007	271.2	<LLD	3.46E-02
201	0.5 MI NE - PMAC	1/15/2007	270.1	<LLD	1.67E-02
201	0.5 MI NE - PMAC	1/22/2007	269.4	<LLD	2.46E-02
201	0.5 MI NE - PMAC	1/29/2007	252.6	<LLD	2.10E-02
201	0.5 MI NE - PMAC	2/5/2007	299.9	<LLD	3.89E-02
201	0.5 MI NE - PMAC	2/12/2007	293.7	<LLD	2.09E-02
201	0.5 MI NE - PMAC	2/19/2007	297.0	<LLD	3.33E-02
201	0.5 MI NE - PMAC	2/26/2007	300.8	<LLD	2.12E-02
201	0.5 MI NE - PMAC	3/5/2007	305.7	<LLD	2.66E-02
201	0.5 MI NE - PMAC	3/12/2007	295.9	<LLD	1.71E-02
201	0.5 MI NE - PMAC	3/19/2007	307.5	<LLD	2.44E-02
201	0.5 MI NE - PMAC	3/26/2007	282.4	<LLD	2.35E-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	4/2/2007	277.1	<LLD	2.84E-02
201	0.5 MI NE - PMAC	4/9/2007	284.6	<LLD	2.10E-02
201	0.5 MI NE - PMAC	4/16/2007	280.0	<LLD	1.91E-02
201	0.5 MI NE - PMAC	4/23/2007	278.8	<LLD	1.52E-02
201	0.5 MI NE - PMAC	4/30/2007	287.2	<LLD	1.75E-02
201	0.5 MI NE - PMAC	5/7/2007	277.1	<LLD	2.13E-02
201	0.5 MI NE - PMAC	5/14/2007	283.3	<LLD	2.76E-02
201	0.5 MI NE - PMAC	5/21/2007	283.5	<LLD	3.14E-02
201	0.5 MI NE - PMAC	5/28/2007	280.0	<LLD	2.65E-02
201	0.5 MI NE - PMAC	6/4/2007	285.9	<LLD	2.10E-02
201	0.5 MI NE - PMAC	6/11/2007	281.7	<LLD	2.12E-02
201	0.5 MI NE - PMAC	6/18/2007	281.1	<LLD	2.13E-02
201	0.5 MI NE - PMAC	6/25/2007	284.0	<LLD	1.99E-02
201	0.5 MI NE - PMAC	7/2/2007	290.3	<LLD	1.48E-02
201	0.5 MI NE - PMAC	7/9/2007	282.8	<LLD	2.88E-02
201	0.5 MI NE - PMAC	7/16/2007	282.8	<LLD	2.60E-02
201	0.5 MI NE - PMAC	7/23/2007	289.1	<LLD	2.26E-02
201	0.5 MI NE - PMAC	7/30/2007	281.2	<LLD	1.53E-02
201	0.5 MI NE - PMAC	8/6/2007	287.6	<LLD	2.15E-02
201	0.5 MI NE - PMAC	8/13/2007	287.4	<LLD	2.22E-02
201	0.5 MI NE - PMAC	8/20/2007	286.7	<LLD	2.22E-02
201	0.5 MI NE - PMAC	8/27/2007	287.9	<LLD	1.75E-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	9/3/2007	283.6	<LLD	3.16E-02
201	0.5 MI NE - PMAC	9/10/2007	286.8	<LLD	1.40E-02
201	0.5 MI NE - PMAC	9/17/2007	290.2	<LLD	1.94E-02
201	0.5 MI NE - PMAC	9/24/2007	281.9	<LLD	2.02E-02
201	0.5 MI NE - PMAC	10/1/2007	286.6	<LLD	1.85E-02
201	0.5 MI NE - PMAC	10/8/2007	284.5	<LLD	2.05E-02
201	0.5 MI NE - PMAC	10/15/2007	279.6	<LLD	1.61E-02
201	0.5 MI NE - PMAC	10/22/2007	286.2	<LLD	1.54E-02
201	0.5 MI NE - PMAC	10/29/2007	280.1	<LLD	3.31E-02
201	0.5 MI NE - PMAC	11/5/2007	280.8	<LLD	3.14E-02
201	0.5 MI NE - PMAC	11/12/2007	274.1	<LLD	1.93E-02
201	0.5 MI NE - PMAC	11/19/2007	274.4	<LLD	1.78E-02
201	0.5 MI NE - PMAC	11/26/2007	280.9	<LLD	2.70E-02
201	0.5 MI NE - PMAC	12/3/2007	276.1	<LLD	1.80E-02
201	0.5 MI NE - PMAC	12/10/2007	273.7	<LLD	3.21E-02
201	0.5 MI NE - PMAC	12/17/2007	278.3	<LLD	2.28E-02
201	0.5 MI NE - PMAC	12/24/2007	265.2	<LLD	3.13E-02
201	0.5 MI NE - PMAC	12/31/2007	275.4	<LLD	3.24E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/1/2007	275.5	<LLD	2.13E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/8/2007	279.6	<LLD	2.19E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/15/2007	276.0	<LLD	2.53E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/22/2007	280.0	<LLD	1.76E-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 CONSTRUCTION RD	1/29/2007	267.3	<LLD	1.93E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/5/2007	275.7	<LLD	2.42E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/12/2007	271.2	<LLD	2.51E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/19/2007	271.1	<LLD	2.70E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/26/2007	273.7	<LLD	2.60E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/5/2007	273.7	<LLD	1.65E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/12/2007	273.7	<LLD	2.56E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/19/2007	276.6	<LLD	3.07E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/26/2007	285.7	<LLD	1.83E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/2/2007	285.9	<LLD	1.71E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/9/2007	258.8	<LLD	1.53E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/16/2007	287.0	<LLD	2.28E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/23/2007	282.9	<LLD	2.04E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/30/2007	292.3	<LLD	1.56E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/7/2007	285.4	<LLD	1.93E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/14/2007	289.7	<LLD	2.39E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/21/2007	286.1	<LLD	2.15E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/28/2007	287.3	<LLD	3.24E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/4/2007	297.0	<LLD	2.01E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/11/2007	293.7	<LLD	1.26E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/18/2007	286.7	<LLD	2.71E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/25/2007	286.0	<LLD	1.87E-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 CONSTRUCTION RD	7/2/2007	300.4	<LLD	1.64E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/9/2007	288.9	<LLD	2.16E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/16/2007	291.5	<LLD	1.77E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/23/2007	293.0	<LLD	1.77E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/30/2007	292.5	<LLD	3.14E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/6/2007	293.3	<LLD	2.90E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/13/2007	293.1	<LLD	2.77E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/20/2007	292.0	<LLD	1.84E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/27/2007	292.7	<LLD	1.76E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/3/2007	290.5	<LLD	2.21E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/10/2007	292.5	<LLD	1.51E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/17/2007	295.2	<LLD	1.68E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/24/2007	285.1	<LLD	1.48E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/1/2007	295.0	<LLD	2.56E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/8/2007	287.3	<LLD	1.90E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/15/2007	288.5	<LLD	1.72E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/22/2007	296.1	<LLD	1.88E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/29/2007	284.4	<LLD	2.18E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/5/2007	284.7	<LLD	2.02E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/12/2007	283.6	<LLD	1.62E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/19/2007	280.6	<LLD	3.13E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/26/2007	283.9	<LLD	1.50E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<u>Sample Point</u>		<u>Sample Date</u>	<u>Quantity</u>	<u>Activity</u>	<u>LLD</u>
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/3/2007	285.2	<LLD	1.99E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/10/2007	282.1	<LLD	2.06E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/17/2007	282.8	<LLD	1.68E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/24/2007	273.9	<LLD	2.48E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/31/2007	284.6	<LLD	3.07E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/1/2007	271.5	<LLD	3.98E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/8/2007	275.3	<LLD	1.82E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/15/2007	272.5	<LLD	2.53E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/22/2007	276.0	<LLD	2.79E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/29/2007	263.4	<LLD	2.79E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/5/2007	274.5	<LLD	1.97E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/12/2007	270.6	<LLD	2.99E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/19/2007	272.0	<LLD	1.87E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/26/2007	272.9	<LLD	3.74E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/5/2007	273.0	<LLD	3.47E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/12/2007	272.0	<LLD	2.62E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/19/2007	274.8	<LLD	2.31E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/26/2007	282.6	<LLD	2.92E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/2/2007	285.3	<LLD	2.94E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/9/2007	284.9	<LLD	3.22E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/16/2007	284.7	<LLD	1.65E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/23/2007	280.5	<LLD	2.93E-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	4/30/2007	290.8	<LLD	2.84E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/7/2007	283.8	<LLD	2.78E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/14/2007	287.0	<LLD	2.60E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/21/2007	285.0	<LLD	2.18E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/28/2007	285.1	<LLD	3.34E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/4/2007	293.4	<LLD	3.11E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/11/2007	293.1	<LLD	2.72E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/18/2007	284.6	<LLD	1.49E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/25/2007	284.5	<LLD	2.64E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/2/2007	291.3	<LLD	3.25E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/9/2007	279.0	<LLD	1.48E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/16/2007	283.0	<LLD	3.46E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/23/2007	284.1	<LLD	1.85E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/30/2007	281.3	<LLD	2.45E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/6/2007	282.4	<LLD	2.35E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/13/2007	283.9	<LLD	3.03E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/20/2007	282.7	<LLD	1.72E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/27/2007	283.0	<LLD	3.54E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/3/2007	279.3	<LLD	2.18E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/10/2007	281.3	<LLD	3.30E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/17/2007	284.0	<LLD	3.15E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/24/2007	269.5	<LLD	3.43E-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	10/1/2007	285.3	<LLD	2.28E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/8/2007	274.3	<LLD	4.10E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/15/2007	275.1	<LLD	2.99E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/22/2007	279.2	<LLD	3.24E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/29/2007	272.4	<LLD	2.10E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/5/2007	270.7	<LLD	3.50E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/12/2007	269.1	<LLD	3.97E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/19/2007	266.7	<LLD	1.54E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/26/2007	271.6	<LLD	3.62E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/3/2007	270.7	<LLD	3.19E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/10/2007	267.9	<LLD	1.67E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/17/2007	267.5	<LLD	1.76E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/24/2007	259.1	<LLD	4.34E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/31/2007	268.6	<LLD	3.32E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/1/2007	272.8	<LLD	2.94E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/8/2007	275.8	<LLD	1.67E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/15/2007	273.0	<LLD	1.76E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/22/2007	270.6	<LLD	2.75E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/29/2007	270.1	<LLD	2.11E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/5/2007	268.6	<LLD	3.49E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	268.6	<LLD	2.84E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/19/2007	268.8	<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
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/26/2007	271.9	<LLD	3.03E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/5/2007	273.1	<LLD	2.09E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/12/2007	270.7	<LLD	3.18E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/19/2007	273.9	<LLD	2.06E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/26/2007	277.4	<LLD	2.17E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/2/2007	275.0	<LLD	1.46E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/9/2007	264.4	<LLD	2.56E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/16/2007	255.5	<LLD	2.06E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/23/2007	272.8	<LLD	2.67E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/30/2007	288.3	<LLD	1.86E-02
204	22.4 Mi NNE - SUTTON PLANT (CONTROL)	5/7/2007	289.8	<LLD	2.20E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	288.7	<LLD	1.18E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/21/2007	286.6	<LLD	1.60E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/28/2007	292.3	<LLD	2.97E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/4/2007	295.5	<LLD	2.47E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/11/2007	295.9	<LLD	1.90E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/18/2007	295.9	<LLD	2.98E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/25/2007	290.9	<LLD	1.88E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/2/2007	293.0	<LLD	2.51E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/9/2007	289.6	<LLD	1.65E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/16/2007	290.5	<LLD	2.01E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/23/2007	289.1	<LLD	1.71E-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)	7/30/2007	288.5	<LLD	1.05E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/6/2007	289.1	<LLD	3.33E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/13/2007	291.3	<LLD	2.67E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/20/2007	290.6	<LLD	2.99E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/27/2007	289.8	<LLD	2.87E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/3/2007	288.9	<LLD	1.40E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/10/2007	286.8	<LLD	2.59E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/17/2007	288.4	<LLD	2.45E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/24/2007	281.0	<LLD	2.13E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/1/2007	286.0	<LLD	1.58E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/8/2007	283.4	<LLD	2.29E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/15/2007	279.7	<LLD	2.52E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/22/2007	279.3	<LLD	2.39E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/29/2007	275.5	<LLD	2.08E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/5/2007	265.5	<LLD	1.55E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/12/2007	231.5	<LLD	2.75E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/19/2007	232.0	<LLD	2.18E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/26/2007	296.1	<LLD	1.86E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/3/2007	280.5	<LLD	2.12E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/10/2007	277.7	<LLD	1.96E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/17/2007	279.3	<LLD	2.37E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/24/2007	276.6	<LLD	2.54E-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)	12/31/2007	281.2	<LLD	2.85E-02
205	0.6 MI SSE - SPOIL POND	1/1/2007	283.3	<LLD	2.52E-02
205	0.6 MI SSE - SPOIL POND	1/8/2007	286.7	<LLD	3.40E-02
205	0.6 MI SSE - SPOIL POND	1/15/2007	285.4	<LLD	2.70E-02
205	0.6 MI SSE - SPOIL POND	1/22/2007	288.8	<LLD	1.83E-02
205	0.6 MI SSE - SPOIL POND	1/29/2007	276.1	<LLD	1.89E-02
205	0.6 MI SSE - SPOIL POND	2/5/2007	287.1	<LLD	1.64E-02
205	0.6 MI SSE - SPOIL POND	2/12/2007	281.5	<LLD	2.19E-02
205	0.6 MI SSE - SPOIL POND	2/19/2007	282.1	<LLD	1.98E-02
205	0.6 MI SSE - SPOIL POND	2/26/2007	283.4	<LLD	2.62E-02
205	0.6 MI SSE - SPOIL POND	3/5/2007	282.7	<LLD	2.78E-02
205	0.6 MI SSE - SPOIL POND	3/12/2007	283.0	<LLD	2.32E-02
205	0.6 MI SSE - SPOIL POND	3/19/2007	285.4	<LLD	3.22E-02
205	0.6 MI SSE - SPOIL POND	3/26/2007	285.4	<LLD	1.91E-02
205	0.6 MI SSE - SPOIL POND	4/2/2007	284.9	<LLD	2.46E-02
205	0.6 MI SSE - SPOIL POND	4/9/2007	282.0	<LLD	1.94E-02
205	0.6 MI SSE - SPOIL POND	4/16/2007	282.5	<LLD	2.44E-02
205	0.6 MI SSE - SPOIL POND	4/23/2007	274.8	<LLD	1.97E-02
205	0.6 MI SSE - SPOIL POND	4/30/2007	291.1	<LLD	2.08E-02
205	0.6 MI SSE - SPOIL POND	5/7/2007	282.0	<LLD	2.25E-02
205	0.6 MI SSE - SPOIL POND	5/14/2007	284.8	<LLD	3.28E-02
205	0.6 MI SSE - SPOIL POND	5/21/2007	282.9	<LLD	3.30E-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	5/28/2007	284.5	<LLD	2.19E-02
205	0.6 MI SSE - SPOIL POND	6/4/2007	294.1	<LLD	2.00E-02
205	0.6 MI SSE - SPOIL POND	6/11/2007	291.5	<LLD	1.90E-02
205	0.6 MI SSE - SPOIL POND	6/18/2007	283.7	<LLD	1.54E-02
205	0.6 MI SSE - SPOIL POND	6/25/2007	284.1	<LLD	1.76E-02
205	0.6 MI SSE - SPOIL POND	7/2/2007	298.1	<LLD	2.00E-02
205	0.6 MI SSE - SPOIL POND	7/9/2007	284.8	<LLD	3.13E-02
205	0.6 MI SSE - SPOIL POND	7/16/2007	289.1	<LLD	2.23E-02
205	0.6 MI SSE - SPOIL POND	7/23/2007	289.8	<LLD	3.41E-02
205	0.6 MI SSE - SPOIL POND	7/30/2007	288.6	<LLD	3.00E-02
205	0.6 MI SSE - SPOIL POND	8/6/2007	289.7	<LLD	1.34E-02
205	0.6 MI SSE - SPOIL POND	8/13/2007	289.8	<LLD	1.99E-02
205	0.6 MI SSE - SPOIL POND	8/20/2007	289.3	<LLD	2.41E-02
205	0.6 MI SSE - SPOIL POND	8/27/2007	289.7	<LLD	2.00E-02
205	0.6 MI SSE - SPOIL POND	9/3/2007	287.5	<LLD	3.83E-02
205	0.6 MI SSE - SPOIL POND	9/10/2007	287.9	<LLD	1.79E-02
205	0.6 MI SSE - SPOIL POND	9/17/2007	291.8	<LLD	1.48E-02
205	0.6 MI SSE - SPOIL POND	9/24/2007	279.4	<LLD	2.20E-02
205	0.6 MI SSE - SPOIL POND	10/1/2007	290.6	<LLD	3.04E-02
205	0.6 MI SSE - SPOIL POND	10/8/2007	281.5	<LLD	1.53E-02
205	0.6 MI SSE - SPOIL POND	10/15/2007	285.4	<LLD	2.20E-02
205	0.6 MI SSE - SPOIL POND	10/22/2007	288.9	<LLD	2.00E-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	10/29/2007	282.2	<LLD	2.71E-02
205	0.6 MI SSE - SPOIL POND	11/5/2007	275.8	<LLD	3.78E-02
205	0.6 MI SSE - SPOIL POND	11/12/2007	259.0	<LLD	2.14E-02
205	0.6 MI SSE - SPOIL POND	11/19/2007	296.0	<LLD	3.38E-02
205	0.6 MI SSE - SPOIL POND	11/26/2007	306.7	<LLD	2.73E-02
205	0.6 MI SSE - SPOIL POND	12/3/2007	304.2	<LLD	1.98E-02
205	0.6 MI SSE - SPOIL POND	12/10/2007	282.6	<LLD	3.06E-02
205	0.6 MI SSE - SPOIL POND	12/17/2007	305.4	<LLD	1.52E-02
205	0.6 MI SSE - SPOIL POND	12/24/2007	258.4	<LLD	3.59E-02
205	0.6 MI SSE - SPOIL POND	12/31/2007	299.3	<LLD	2.11E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point		Sample Date	Quantity	Efficiency	Activity	LLD
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2007	0.005	4.01E-01	<LLD	3.34E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2007	0.005	4.02E-01	<LLD	3.32E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/17/2007	0.005	4.02E-01	<LLD	3.31E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2007	0.005	3.98E-01	<LLD	3.31E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/16/2007	0.005	3.91E-01	<LLD	3.38E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2007	0.005	3.93E-01	<LLD	3.38E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/17/2007	0.005	3.93E-01	<LLD	3.05E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/17/2007	0.005	3.93E-01	<LLD	3.05E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2007	0.005	3.91E-01	<LLD	3.07E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2007	0.005	3.90E-01	<LLD	2.98E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2007	0.005	3.91E-01	<LLD	3.07E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2007	0.005	3.90E-01	<LLD	3.11E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2007	0.005	4.01E-01	<LLD	3.34E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2007	0.005	4.01E-01	<LLD	3.33E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/17/2007	0.005	4.01E-01	8.07E+02	3.28E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2007	0.005	3.97E-01	4.52E+02	3.32E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/16/2007	0.005	3.89E-01	<LLD	3.40E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2007	0.005	3.94E-01	<LLD	3.37E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/17/2007	0.005	3.94E-01	<LLD	3.04E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/17/2007	0.005	3.94E-01	<LLD	3.04E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2007	0.005	3.91E-01	<LLD	3.07E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2007	0.005	3.91E-01	<LLD	2.97E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2007	0.005	3.90E-01	<LLD	3.09E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2007	0.005	3.91E-01	<LLD	3.11E+02

2007 BSEP

Radiological Environmental Monitoring

Gamma Isotopic Report

Comments

- All AC and AP samples were available.
- 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	2/12/2007	3641.7	BE-7	1.31E-01	1.92E-02
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	3641.7	K-40	3.96E-02	9.97E-03
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	3641.7	PB-212	1.66E-03	7.10E-04
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	3641.7	BI-214	2.81E-03	1.77E-03
200	1.0 MI WSW - VISITORS CENTER	2/12/2007	3641.7	PB-214	3.17E-03	1.30E-03
200	1.0 MI WSW - VISITORS CENTER	5/14/2007	3743	K-40	2.33E-02	1.27E-02
200	1.0 MI WSW - VISITORS CENTER	5/14/2007	3743	BE-7	1.32E-01	1.49E-02
200	1.0 MI WSW - VISITORS CENTER	5/14/2007	3743	PB-212	7.28E-04	6.83E-04
200	1.0 MI WSW - VISITORS CENTER	8/13/2007	3681.4	BE-7	1.23E-01	1.66E-02
200	1.0 MI WSW - VISITORS CENTER	8/13/2007	3681.4	PB-214	1.64E-03	1.38E-03
200	1.0 MI WSW - VISITORS CENTER	11/15/2007	3843.6	PB-214	6.23E-03	1.45E-03
200	1.0 MI WSW - VISITORS CENTER	11/15/2007	3843.6	BE-7	1.15E-01	1.62E-02
200	1.0 MI WSW - VISITORS CENTER	11/15/2007	3843.6	BI-214	4.00E-03	1.40E-03
200	1.0 MI WSW - VISITORS CENTER	11/15/2007	3843.6	PB-212	1.95E-03	7.29E-04
201	0.5 MI NE - PMAC	2/12/2007	3713.8	BE-7	1.38E-01	1.66E-02
201	0.5 MI NE - PMAC	2/12/2007	3713.8	TL-208	6.19E-04	5.66E-04
201	0.5 MI NE - PMAC	2/12/2007	3713.8	BI-214	2.45E-03	1.20E-03
201	0.5 MI NE - PMAC	2/12/2007	3713.8	PB-214	2.64E-03	1.49E-03
201	0.5 MI NE - PMAC	2/12/2007	3713.8	PB-212	1.05E-03	6.31E-04
201	0.5 MI NE - PMAC	5/14/2007	3664.3	BE-7	1.54E-01	2.35E-02
201	0.5 MI NE - PMAC	8/13/2007	3720.4	BE-7	1.26E-01	1.62E-02
201	0.5 MI NE - PMAC	8/13/2007	3720.4	K-40	1.57E-02	9.43E-03
201	0.5 MI NE - PMAC	8/13/2007	3720.4	TL-208	7.53E-04	4.76E-04
201	0.5 MI NE - PMAC	8/13/2007	3720.4	PB-214	1.87E-03	1.20E-03

BSEP Kcdiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<u>Sample Point</u>		<u>Sample Date</u>	<u>Quantity</u>	<u>Isotope</u>	<u>Activity</u>	<u>2 Sigma Error</u>
201	0.5 MI NE - PMAC	11/15/2007	3895.9	BE-7	1.24E-01	2.17E-02
201	0.5 MI NE - PMAC	11/15/2007	3895.9	PB-212	1.10E-03	8.94E-04
201	0.5 MI NE - PMAC	11/15/2007	3895.9	BI-214	3.12E-03	1.75E-03
201	0.5 MI NE - PMAC	11/15/2007	3895.9	PB-214	2.40E-03	1.64E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/12/2007	3579.8	BE-7	1.42E-01	2.21E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/12/2007	3579.8	BI-214	3.10E-03	1.77E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/14/2007	3718.8	PB-214	1.79E-03	1.18E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/14/2007	3718.8	BE-7	1.54E-01	1.69E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/14/2007	3718.8	BI-214	1.62E-03	1.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/14/2007	3718.8	PB-212	1.44E-03	9.92E-04
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/13/2007	3795.7	BE-7	1.25E-01	1.76E-02
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/13/2007	3795.7	BI-214	3.54E-03	1.41E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/13/2007	3795.7	PB-214	2.24E-03	1.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/15/2007	3992.7	PB-214	4.70E-03	1.62E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/15/2007	3992.7	BI-214	6.82E-03	1.74E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/15/2007	3992.7	PB-212	1.38E-03	9.42E-04
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/15/2007	3992.7	BE-7	1.21E-01	1.64E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/12/2007	3551.1	BI-214	4.72E-03	2.34E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/12/2007	3551.1	BE-7	1.13E-01	2.36E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/12/2007	3551.1	PB-212	1.02E-03	1.01E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/14/2007	3722.7	BE-7	1.56E-01	2.04E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/13/2007	3678.3	BE-7	1.18E-01	2.28E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/15/2007	3798.2	PB-212	1.63E-03	6.50E-04
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/15/2007	3798.2	PB-214	6.17E-03	1.41E-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	11/15/2007	3798.2	BI-214	5.92E-03	1.82E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/15/2007	3798.2	BE-7	1.18E-01	1.53E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/15/2007	3798.2	K-40	3.10E-02	1.16E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	3535.3	BI-214	2.52E-03	1.41E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	3535.3	PB-214	3.11E-03	1.53E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	3535.3	PB-212	1.34E-03	7.45E-04
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/12/2007	3535.3	BE-7	1.47E-01	1.71E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	3691.6	PB-214	1.14E-03	1.08E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	3691.6	TL-208	4.96E-04	4.63E-04
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	3691.6	K-40	1.17E-02	1.07E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/14/2007	3691.6	BE-7	1.66E-01	1.70E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/13/2007	3783.7	BE-7	1.43E-01	1.82E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/15/2007	3824.3	PB-212	9.23E-04	6.72E-04
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/15/2007	3824.3	BI-214	1.01E-02	1.59E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/15/2007	3824.3	PB-214	8.50E-03	1.49E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/15/2007	3824.3	BE-7	1.35E-01	1.56E-02
205	0.6 MI SSE - SPOIL POND	2/12/2007	3690.9	BE-7	1.28E-01	2.44E-02
205	0.6 MI SSE - SPOIL POND	5/14/2007	3702.9	BE-7	1.50E-01	2.59E-02
205	0.6 MI SSE - SPOIL POND	8/13/2007	3739.6	K-40	1.26E-02	1.22E-02
205	0.6 MI SSE - SPOIL POND	8/13/2007	3739.6	PB-212	8.21E-04	4.73E-04
205	0.6 MI SSE - SPOIL POND	8/13/2007	3739.6	BI-214	2.08E-03	1.35E-03
205	0.6 MI SSE - SPOIL POND	8/13/2007	3739.6	PB-214	2.95E-03	1.35E-03
205	0.6 MI SSE - SPOIL POND	8/13/2007	3739.6	BE-7	1.13E-01	1.48E-02
205	0.6 MI SSE - SPOIL POND	11/15/2007	4016	PB-214	2.40E-03	1.75E-03

BSEI Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<u>Sample Point</u>		<u>Sample Date</u>	<u>Quantity</u>	<u>Isotope</u>	<u>Activity</u>	<u>2 Sigma Error</u>
205	0.6 MI SSE - SPOIL POND	11/15/2007	4016	BE-7	1.22E-01	2.01E-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
800	0.7 MI NE - INTAKE CANAL	1/2/2007	487.7	K-40	1.38E+00	2.84E-01
800	0.7 MI NE - INTAKE CANAL	1/2/2007	487.7	BE-7	1.89E+00	2.33E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2007	477.7	K-40	1.62E+00	4.58E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2007	477.7	BE-7	1.85E+00	2.81E-01
800	0.7 MI NE - INTAKE CANAL	3/1/2007	442.5	K-40	2.11E+00	5.11E-01
800	0.7 MI NE - INTAKE CANAL	3/1/2007	442.5	BE-7	2.17E+00	3.01E-01
800	0.7 MI NE - INTAKE CANAL	4/2/2007	419.2	BE-7	1.80E+00	2.34E-01
800	0.7 MI NE - INTAKE CANAL	4/2/2007	419.2	K-40	2.37E+00	4.43E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2007	502	TH-234	9.04E-01	6.72E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2007	502	BE-7	5.38E-01	2.16E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2007	502	K-40	3.02E+00	5.20E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2007	502	TL-208	3.82E-02	2.13E-02
800	0.7 MI NE - INTAKE CANAL	5/1/2007	502	PB-212	5.76E-02	3.24E-02
800	0.7 MI NE - INTAKE CANAL	6/1/2007	532.2	K-40	2.80E+00	4.84E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2007	532.2	BE-7	6.21E-01	1.94E-01
800	0.7 MI NE - INTAKE CANAL	7/2/2007	563.9	K-40	2.64E+00	3.37E-01
800	0.7 MI NE - INTAKE CANAL	7/2/2007	563.9	PB-212	2.68E-02	2.22E-02
800	0.7 MI NE - INTAKE CANAL	7/2/2007	563.9	BE-7	6.00E-01	1.34E-01
800	0.7 MI NE - INTAKE CANAL	8/1/2007	525.5	K-40	2.27E+00	4.55E-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
800	0.7 MI NE - INTAKE CANAL	8/1/2007	525.5	BE-7	9.92E-01	2.22E-01
800	0.7 MI NE - INTAKE CANAL	9/3/2007	459.7	BE-7	1.43E+00	2.32E-01
800	0.7 MI NE - INTAKE CANAL	9/3/2007	459.7	K-40	1.79E+00	5.55E-01
800	0.7 MI NE - INTAKE CANAL	10/1/2007	472.5	TH-234	1.92E+00	9.65E-01
800	0.7 MI NE - INTAKE CANAL	10/1/2007	472.5	K-40	2.58E+00	5.58E-01
800	0.7 MI NE - INTAKE CANAL	10/1/2007	472.5	BE-7	1.23E+00	2.60E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2007	449.8	BE-7	1.94E+00	2.43E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2007	449.8	K-40	1.23E+00	4.02E-01
800	0.7 MI NE - INTAKE CANAL	11/1/2007	449.8	Tl-208	2.81E-02	2.69E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2007	509.3	PB-214	8.22E-02	5.18E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2007	509.3	Bi-214	1.74E-01	4.62E-02
800	0.7 MI NE - INTAKE CANAL	12/1/2007	509.3	K-40	1.48E+00	4.21E-01
800	0.7 MI NE - INTAKE CANAL	12/1/2007	509.3	BE-7	9.98E-01	2.44E-01
801	0.8 MI SW - DISCHARGE CANAL	1/2/2007	470.1	PB-214	8.57E-02	5.68E-02
801	0.8 MI SW - DISCHARGE CANAL	1/2/2007	470.1	BE-7	1.14E+00	2.04E-01
801	0.8 MI SW - DISCHARGE CANAL	1/2/2007	470.1	K-40	1.70E+00	4.68E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2007	531.8	K-40	1.35E+00	2.97E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2007	531.8	BE-7	1.22E+00	1.80E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2007	531.8	RA-226	2.80E-01	2.38E-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	2/1/2007	531.8	BI-214	5.34E-02	3.72E-02
801	0.8 MI SW - DISCHARGE CANAL	2/1/2007	531.8	PB-212	4.35E-02	3.24E-02
801	0.8 MI SW - DISCHARGE CANAL	3/1/2007	435.9	BE-7	1.52E+00	1.89E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2007	435.9	K-40	2.03E+00	3.68E-01
801	0.8 MI SW - DISCHARGE CANAL	4/2/2007	423.3	BE-7	1.24E+00	2.20E-01
801	0.8 MI SW - DISCHARGE CANAL	4/2/2007	423.3	PB-212	4.33E-02	2.70E-02
801	0.8 MI SW - DISCHARGE CANAL	4/2/2007	423.3	BI-214	7.74E-02	4.71E-02
801	0.8 MI SW - DISCHARGE CANAL	4/2/2007	423.3	K-40	2.33E+00	4.20E-01
801	0.8 MI SW - DISCHARGE CANAL	5/1/2007	457.7	BE-7	7.23E-01	1.78E-01
801	0.8 MI SW - DISCHARGE CANAL	5/1/2007	457.7	BI-214	5.57E-02	3.95E-02
801	0.8 MI SW - DISCHARGE CANAL	5/1/2007	457.7	K-40	2.06E+00	4.21E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2007	464.2	RA-226	4.47E-01	3.35E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2007	464.2	K-40	2.28E+00	3.79E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2007	464.2	BE-7	4.75E-01	1.78E-01
801	0.8 MI SW - DISCHARGE CANAL	7/2/2007	463.6	BE-7	9.69E-01	2.03E-01
801	0.8 MI SW - DISCHARGE CANAL	7/2/2007	463.6	K-40	2.39E+00	5.19E-01
801	0.8 MI SW - DISCHARGE CANAL	7/2/2007	463.6	BI-214	4.21E-02	4.04E-02
801	0.8 MI SW - DISCHARGE CANAL	8/1/2007	460.7	K-40	1.91E+00	3.99E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2007	460.7	BI-214	4.40E-02	3.31E-02

BNP Fresh Biological 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	8/1/2007	460.7	TL-208	1.60E-02	1.36E-02
801	0.8 MI SW - DISCHARGE CANAL	8/1/2007	460.7	BE-7	1.43E+00	1.85E-01
801	0.8 MI SW - DISCHARGE CANAL	9/3/2007	403.4	K-40	1.50E+00	5.57E-01
801	0.8 MI SW - DISCHARGE CANAL	9/3/2007	403.4	BE-7	1.27E+00	2.61E-01
801	0.8 MI SW - DISCHARGE CANAL	10/1/2007	413.6	BE-7	1.24E+00	2.49E-01
801	0.8 MI SW - DISCHARGE CANAL	10/1/2007	413.6	K-40	1.59E+00	3.81E-01
801	0.8 MI SW - DISCHARGE CANAL	10/1/2007	413.6	PB-214	5.96E-02	3.63E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2007	437.9	BE-7	2.87E+00	2.97E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2007	437.9	K-40	1.85E+00	5.68E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2007	503.2	BE-7	1.11E+00	2.30E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2007	503.2	K-40	2.04E+00	4.36E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2007	503.2	PB-214	7.03E-02	4.73E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2007	464.7	BI-214	4.36E-02	3.91E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2007	464.7	K-40	1.54E+00	4.29E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2007	464.7	BE-7	4.48E+00	3.60E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2007	512.7	TL-208	1.76E-02	1.48E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2007	512.7	K-40	1.34E+00	2.85E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2007	512.7	PB-212	4.32E-02	2.81E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2007	512.7	BE-7	2.98E+00	2.51E-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	3/1/2007	436.3	BE-7	3.05E+00	2.58E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2007	436.3	K-40	2.02E+00	3.26E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2007	436.3	TL-208	1.84E-02	1.58E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2007	436.3	AC-228	1.16E-01	5.38E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	K-40	1.54E+00	4.75E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	AC-228	8.76E-02	8.49E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	BI-214	1.44E-01	6.16E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	TL-208	3.22E-02	2.38E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	BE-7	2.79E+00	3.10E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/2/2007	442.2	PB-212	9.65E-02	4.42E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2007	484.5	PB-212	7.73E-02	3.20E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2007	484.5	BI-212	1.34E-01	1.14E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2007	484.5	K-40	2.41E+00	3.83E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2007	484.5	BE-7	1.12E+00	2.27E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2007	533	K-40	2.45E+00	3.94E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2007	533	BE-7	3.62E-01	1.24E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/2/2007	467.6	K-40	2.33E+00	4.85E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/2/2007	467.6	TL-208	6.95E-02	2.58E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/2/2007	467.6	PB-212	1.37E-01	3.95E-02

BNP Biological 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	7/2/2007	467.6	BE-7	7.54E-01	2.51E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2007	470.4	K-40	1.87E+00	3.34E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2007	470.4	PB-214	5.22E-02	3.36E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2007	470.4	BI-214	4.19E-02	3.76E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2007	470.4	PB-212	7.70E-02	2.54E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2007	470.4	BE-7	9.73E-01	1.65E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	BE-7	1.77E+00	2.29E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	PB-214	4.84E-02	4.37E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	BI-214	6.95E-02	5.17E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	PB-212	3.47E-02	3.00E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	K-40	2.10E+00	4.12E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/3/2007	407.1	AC-228	1.24E-01	6.66E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	TL-208	3.25E-02	2.42E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	K-40	2.30E+00	7.68E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	BE-7	1.31E+00	3.13E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	BI-214	1.25E-01	5.66E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	PB-212	7.36E-02	4.17E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	PB-214	7.73E-02	5.70E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2007	414	RA-226	7.47E-01	5.22E-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	11/1/2007	436.6	PB-214	5.09E-02	4.51E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2007	436.6	BI-214	6.82E-02	4.85E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2007	436.6	PB-212	7.49E-02	2.60E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2007	436.6	BE-7	1.72E+00	2.58E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2007	436.6	K-40	1.08E+00	3.44E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2007	436.6	BI-212	1.24E-01	1.08E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2007	507.7	K-40	1.10E+00	3.40E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2007	507.7	BE-7	6.80E-01	1.76E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2007	507.7	PB-214	3.53E-02	2.66E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2007	507.7	BI-214	6.76E-02	3.56E-02
803	0.6 MI SSE - SPOIL POND	1/2/2007	433.7	BE-7	1.47E+00	1.84E-01
803	0.6 MI SSE - SPOIL POND	1/2/2007	433.7	K-40	1.63E+00	3.79E-01
803	0.6 MI SSE - SPOIL POND	1/2/2007	433.7	BI-214	4.79E-02	4.04E-02
803	0.6 MI SSE - SPOIL POND	2/1/2007	499.2	BE-7	1.27E+00	2.20E-01
803	0.6 MI SSE - SPOIL POND	2/1/2007	499.2	K-40	1.49E+00	4.35E-01
803	0.6 MI SSE - SPOIL POND	3/1/2007	441.1	BE-7	1.39E+00	2.32E-01
803	0.6 MI SSE - SPOIL POND	3/1/2007	441.1	K-40	1.43E+00	4.67E-01
803	0.6 MI SSE - SPOIL POND	4/1/2007	409	PB-214	5.09E-02	3.32E-02
803	0.6 MI SSE - SPOIL POND	4/1/2007	409	K-40	2.86E+00	4.31E-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	4/1/2007	409	TL-208	2.45E-02	1.83E-02
803	0.6 MI SSE - SPOIL POND	4/1/2007	409	BE-7	1.62E+00	2.34E-01
803	0.6 MI SSE - SPOIL POND	4/1/2007	409	BI-214	4.10E-02	4.08E-02
803	0.6 MI SSE - SPOIL POND	5/1/2007	474.6	K-40	2.74E+00	4.95E-01
803	0.6 MI SSE - SPOIL POND	5/1/2007	474.6	BE-7	3.23E-01	1.90E-01
803	0.6 MI SSE - SPOIL POND	6/1/2007	530.4	RE-7	5.40E-01	1.56E-01
803	0.6 MI SSE - SPOIL POND	6/1/2007	530.4	K-40	2.83E+00	3.87E-01
803	0.6 MI SSE - SPOIL POND	6/1/2007	530.4	RA-226	3.04E-01	3.00E-01
803	0.6 MI SSE - SPOIL POND	7/2/2007	471.2	BE-7	6.72E-01	1.67E-01
803	0.6 MI SSE - SPOIL POND	7/2/2007	471.2	K-40	2.17E+00	3.90E-01
803	0.6 MI SSE - SPOIL POND	7/2/2007	471.2	PB-212	5.17E-02	2.59E-02
803	0.6 MI SSE - SPOIL POND	8/1/2007	415.7	K-40	2.01E+00	4.89E-01
803	0.6 MI SSE - SPOIL POND	8/1/2007	415.7	PB-212	8.01E-02	5.91E-02
803	0.6 MI SSE - SPOIL POND	8/1/2007	415.7	BI-214	6.13E-02	5.11E-02
803	0.6 MI SSE - SPOIL POND	8/1/2007	415.7	BE-7	5.38E-01	2.21E-01
803	0.6 MI SSE - SPOIL POND	9/3/2007	423.4	BI-214	4.71E-02	3.90E-02
803	0.6 MI SSE - SPOIL POND	9/3/2007	423.4	BE-7	1.08E+00	2.25E-01
803	0.6 MI SSE - SPOIL POND	9/3/2007	423.4	K-40	2.73E+00	4.44E-01
803	0.6 MI SSE - SPOIL POND	10/1/2007	412.4	K-40	2.03E+00	5.67E-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	10/1/2007	412.4	BE-7	1.78E+00	2.91E-01
803	0.6 MI SSE - SPOIL POND	10/1/2007	412.4	PB-212	4.24E-02	3.96E-02
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	PB-214	3.96E-02	3.25E-02
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	BI-214	6.29E-02	4.04E-02
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	PB-212	5.74E-02	3.53E-02
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	TL-208	4.60E-02	1.62E-02
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	K-40	1.78E+00	4.37E-01
803	0.6 MI SSE - SPOIL POND	11/1/2007	427.5	BE-7	1.54E+00	2.29E-01
803	0.6 MI SSE - SPOIL POND	12/1/2007	500.4	PB-214	3.93E-02	3.42E-02
803	0.6 MI SSE - SPOIL POND	12/1/2007	500.4	BI-214	3.74E-02	3.05E-02
803	0.6 MI SSE - SPOIL POND	12/1/2007	500.4	K-40	2.15E+00	3.80E-01
803	0.6 MI SSE - SPOIL POND	12/1/2007	500.4	BE-7	8.97E-01	1.92E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2007	464.9	PB-212	5.21E-02	3.11E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2007	464.9	BI-214	8.41E-02	4.14E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2007	464.9	BE-7	1.50E+00	2.13E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2007	464.9	K-40	1.66E+00	3.40E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2007	526.1	K-40	1.50E+00	4.25E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2007	526.1	BE-7	1.25E+00	2.04E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2007	526.1	TL-208	3.60E-02	1.86E-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	2/1/2007	526.1	PB-212	5.08E-02	3.27E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	BE-7	1.94E+00	3.09E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	TL-208	3.74E-02	2.22E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	PB-212	8.90E-02	4.58E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	PB-214	8.22E-02	4.35E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	BI-214	7.44E-02	6.31E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2007	465.7	K-40	1.74E+00	4.56E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2007	431.4	PB-214	5.42E-02	5.20E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2007	431.4	BE-7	1.85E+00	3.40E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2007	431.4	BI-214	6.62E-02	3.72E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2007	431.4	K-40	2.09E+00	4.74E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2007	431.4	TL-208	3.50E-02	2.19E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2007	424.5	BE-7	1.43E+00	2.95E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2007	424.5	K-40	2.07E+00	4.92E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2007	424.5	PB-212	8.94E-02	3.99E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2007	424.5	TL-208	3.89E-02	2.32E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2007	528.7	BE-7	3.95E-01	1.33E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2007	528.7	K-40	2.62E+00	3.72E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/2/2007	476.7	BE-7	7.28E-01	1.54E-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	7/2/2007	476.7	K-40	2.12E+00	3.55E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/2/2007	476.7	TL-208	3.48E-02	1.86E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/2/2007	476.7	PB-212	6.85E-02	3.08E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2007	465	PB-212	4.86E-02	3.46E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2007	465	K-40	2.05E+00	4.47E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2007	465	BI-214	5.29E-02	4.54E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2007	465	BE-7	3.76E-01	2.37E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/3/2007	458.2	K-40	1.45E+00	4.38E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/3/2007	458.2	PB-212	4.53E-02	3.95E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/3/2007	458.2	BE-7	9.63E-01	2.22E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	PB-212	6.35E-02	3.01E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	RA-226	3.94E-01	3.68E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	BI-214	5.21E-02	3.39E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	TL-208	2.47E-02	2.07E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	K-40	1.94E+00	3.57E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	BE-7	9.89E-01	1.88E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2007	456.1	PB-214	4.80E-02	3.87E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2007	448.6	TH-234	7.90E-01	5.99E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2007	448.6	BI-214	6.78E-02	3.84E-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	11/1/2007	448.6	K-40	1.22E+00	3.38E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2007	448.6	BE-7	1.12E+00	1.77E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2007	537.9	K-40	1.12E+00	4.18E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2007	537.9	BE-7	1.46E+00	2.11E-01

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Fish and Invertebrates

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

<u>Sample Point</u>		<u>Sample Date</u>	<u>Quantity</u>	<u>Isotope</u>	<u>Activity</u>	<u>2 Sigma Error</u>
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/24/2007	878.3	K-40	3.75E+00	7.85E-01
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/10/2007	822	PB-214	1.53E-01	6.38E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/10/2007	822	BI-214	2.20E-01	6.53E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/10/2007	822	K-40	4.16E+00	7.94E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/24/2007	589.7	K-40	2.24E+00	5.38E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/24/2007	589.7	BI-214	6.33E-02	4.23E-02
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/24/2007	589.7	PB-214	1.02E-01	4.01E-02
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/10/2007	655.6	K-40	3.34E+00	8.33E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/24/2007	711.2	K-40	1.98E+00	6.57E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/10/2007	537.7	PB-212	3.72E-02	2.54E-02
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/10/2007	537.7	BI-214	1.32E-01	4.18E-02
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/10/2007	537.7	K-40	1.69E+00	5.44E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/24/2007	1020.4	PB-214	3.03E-02	2.82E-02
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/24/2007	1020.4	K-40	1.65E+00	4.29E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/10/2007	787.1	K-40	3.11E+00	6.79E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/10/2007	787.1	BI-214	8.36E-02	5.05E-02
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/10/2007	787.1	PB-214	1.03E-01	5.31E-02
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/24/2007	586.3	K-40	1.62E+00	3.57E-01
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	10/10/2007	797.5	PB-214	7.97E-02	6.11E-02
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	10/10/2007	797.5	K-40	2.99E+00	7.04E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/24/2007	896.3	PB-214	5.80E-02	4.08E-02
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/24/2007	896.3	BI-214	5.84E-02	4.02E-02
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/24/2007	896.3	K-40	1.40E+00	5.74E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	10/10/2007	538.6	K-40	1.92E+00	6.12E-01

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	5/1/2007	1658.6	AC-228	1.21E-01	5.77E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	RA-226	6.31E-01	4.70E-01
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	PB-214	1.72E-01	3.97E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	BI-214	1.93E-01	4.46E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	PB-212	1.26E-01	3.42E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	TL-208	5.78E-02	1.91E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/1/2007	1658.6	K-40	6.88E-01	2.38E-01
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	AC-228	1.99E-01	9.90E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	RA-226	4.44E-01	4.25E-01
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	PB-214	2.92E-01	6.53E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	BI-214	3.08E-01	5.99E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	PB-212	2.32E-01	4.84E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	TL-208	1.04E-01	2.53E-02
500	5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/15/2007	1544.3	K-40	6.91E-01	3.09E-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)	1/16/2007	1	K-40	6.82E+01	5.46E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2007	1	K-40	1.44E+02	4.32E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/17/2007	1	K-40	1.31E+02	4.29E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2007	1	K-40	1.91E+02	5.59E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/16/2007	1	K-40	2.16E+02	4.34E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2007	1	K-40	2.99E+02	4.07E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/17/2007	1	K-40	2.92E+02	4.64E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/17/2007	1	BI-214	8.40E+00	4.94E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/17/2007	1	K-40	3.12E+02	4.36E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2007	1	K-40	3.76E+02	6.39E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2007	1	K-40	2.75E+02	6.01E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2007	1	K-40	3.20E+02	4.25E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2007	1	PB-212	5.19E+00	2.98E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2007	1	K-40	2.91E+02	4.42E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2007	1	AC-228	8.91E+00	5.50E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2007	1	K-40	1.41E+02	3.47E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2007	1	K-40	1.26E+02	4.27E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/17/2007	1	K-40	1.99E+02	5.46E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2007	1	K-40	2.08E+02	3.50E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/16/2007	1	K-40	2.98E+02	3.46E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2007	1	K-40	2.98E+02	5.84E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/17/2007	1	K-40	3.26E+02	3.85E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/17/2007	1	K-40	3.15E+02	5.93E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2007	1	K-40	3.30E+02	7.20E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2007	1	K-40	3.27E+02	3.99E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2007	1	K-40	2.79E+02	4.01E+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	12/16/2007	1	K-40	2.64E+02	3.88E+01