



Progress Energy

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U. S. Nuclear Regulatory Commission
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Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62
Annual Radiological Environmental Operating Report for 2005

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 2005. Enclosure 1 contains the report. Enclosure 2 contains a corrected page for the 2004 Radiological Environmental Operating Report.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

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MAT/mat

Enclosures:

1. Annual Radiological Environmental Operating Report for 2005
2. Annual Radiological Environmental Operating Report for 2004 - Corrected Page 7

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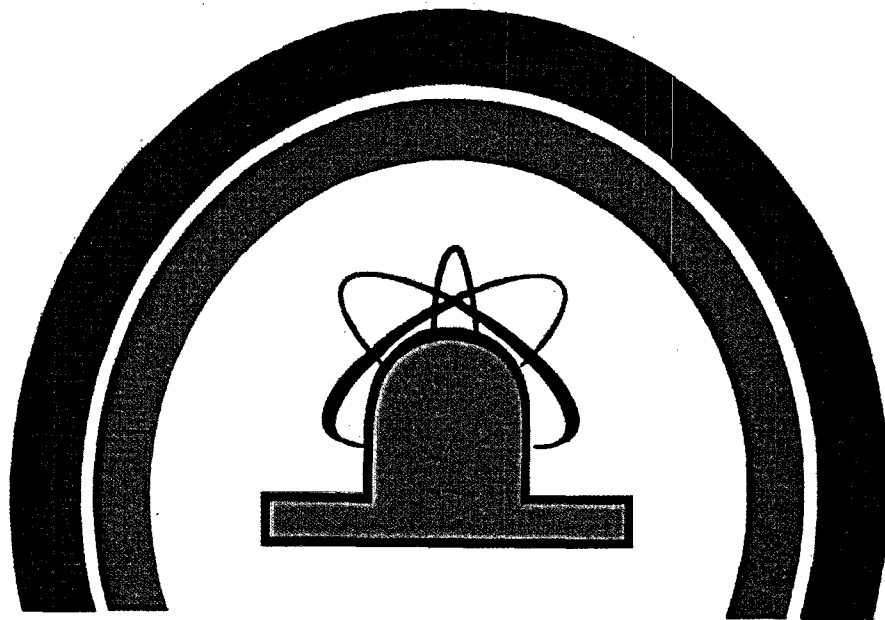
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**Annual Radiological Environmental Operating Report
for 2005**

**RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT
2005**



**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, 2005**

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EXECUTIVE SUMMARY

The Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, is operated by Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., under licenses granted by the Nuclear Regulatory Commission (NRC). BSEP Technical Specification 5.6.2 and 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, 2005 through December 31, 2005.

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 detectable concentrations of Cs-137 in both indicator and control locations for broadleaf vegetation. No other gamma activity was detected in any sample except for K-40 (potassium-40) and other naturally occurring gamma activity.
- Aquatic organism monitoring includes fish (free swimmers and bottom feeders), invertebrates (shellfish (SH)), and Benthic organisms (BO) (organisms that live on the bottom of the ocean). Results indicated no detectable plant - related activity.
- Surface water results indicate no detectable plant - related activity, except for the presence of tritium, which is attributed to plant operations, but is well below reportable limits.
- 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.

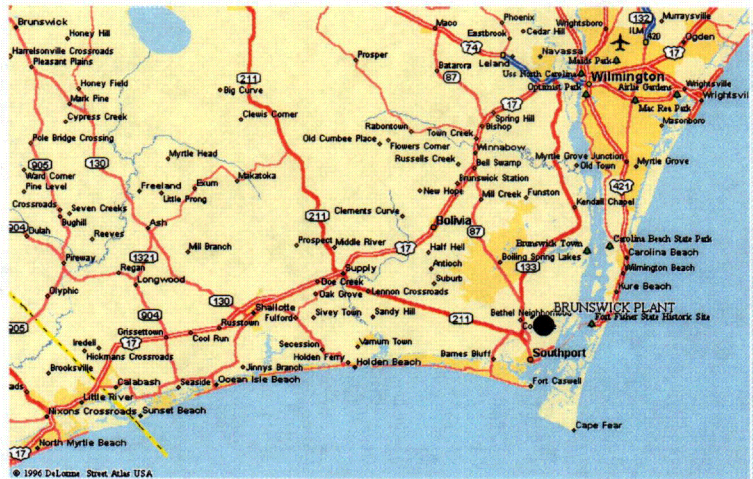


Figure 1: Location of Brunswick Steam Electric Plant

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

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

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

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

RADIOLOGICAL MONITORING PROGRAM QUALITY ASSURANCE

A required component of the REMP is the Quality Assurance Program. The standards for the quality assurance program are established in NRC Regulatory Guide (R.G.) 4.15, "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 Analytics, Inc., 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 (Highest D/Q) 202--1.0 miles S substation--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 (Highest D/Q) 202--1.0 miles S substation-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)	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)	300 grams (wet)	Gamma Iodine-131
Shoreline Sediment (SS)	500--5.0 miles SSW discharge; beach near OD pumps	Semiannual	500 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

* 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	Quarterly	Not Applicable	TLD Reading (Gamma Dose)
	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*				

*Control Station

SUMMARY OF RADIOLOGICAL MONITORING PROGRAM

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2005 for BSEP. The program was conducted in accordance with the ODCM, and applicable procedures.

The 2005 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 949 sample measurements were performed on 925 collected samples from indicator and control locations from six environmental media types during the year. Except for tritium activity in one (1) out of twelve (12) indicator samples of surface water (Table 3), no detectable radioactivity (or radioactivity which did not differ significantly from the corresponding control) was observed in any of the 795 measurements performed on the 783 indicator location samples in 2005. No other gamma activity was detected in any samples, except for Cs-137, 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 2005 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 2005 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 2005.

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

Brunswick Steam Electric Plant
 Brunswick County, North Carolina

Docket Numbers - 50-324 and 325
 Calendar Year 2005

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		Control Locations Mean Range ⁽²⁾
				Name, Distance, and Direction	Mean Range ⁽²⁾	
Air Cartridge (pCi/m ³)	I-131 312	6.8E-2	All less than LLD		All less than LLD	All less than LLD
Air Particulate (pCi/m ³)	Gross Beta 312	4.2E-3	1.81E-2 (260/260) ⁽⁸⁾ 5.71E-3 - 4.14E-2	PMAC 0.5 miles NE	1.86E-2 (52/52) ⁽⁸⁾ 8.38E-3 - 4.14E-2	1.88E-2 (52/52) ⁽⁸⁾ 7.14E-3 - 3.66E-2
	Gamma ⁽⁴⁾ 24	See Table 6	All less than LLD		All less than LLD	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma ⁽⁴⁾ 60 ⁽³⁾ Cs-137	4.46E-2	3.32E-2 (1/48) ⁽⁸⁾ Single value	Leonard St. plant exit adjacent to RR tracks 0.7 miles S	3.32E-2 (1/12) ⁽⁸⁾ Single value	3.66E-2 (1/12) ⁽⁸⁾ Single value
Fish and Invertebrates (pCi/g, wet)	Gamma ⁽⁴⁾ 12	See Table 6	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
	Tritium 24	3.25E+2 (22/24) ^{(6) (8)} 3.75E+2 (2/24) ^{(7) (8)}	3.22E+2 (1/12) ⁽⁸⁾ Single value All less than LLD	Discharge Canal @ OD pumps 4.9 miles SSW	3.22E+2 (1/12) ⁽⁸⁾ Single value All less than LLD	All less than LLD All less than LLD
TLD (mR per quarter) ⁽⁵⁾	TLD Readout 179 ⁽³⁾		9.81E+0 (175/176) ⁽⁸⁾ 7.40E+0 - 1.32E+1	4.8 miles SSW	1.18E+1 (4/4) ⁽⁸⁾ 1.03E+1 - 1.32E+1	1.07E+1 (4/4) ⁽⁸⁾ 9.30E+0 - 1.22E+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 $3.25\text{E}+2$ pCi/L in June 1996. 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 tritium LLD was increased to $3.75\text{E}+2$ pCi/L in January 2005. The LLD was raised for a temporary timeframe due to a problem with the wrong type of glass liquid scintillation vials being used (NCR # 150577).
8. The numbers in parentheses [e.g., Surface Water Tritium $3.25\text{E}+2$ (22/24) for LLD] 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 260 air particulate (AP) samples collected at indicator stations during 2005 was $1.81\text{E-}2$ picocuries per cubic meter (pCi/m^3) and the average gross beta concentration measured in 52 AP samples collected at control stations during 2005 was $1.88\text{E-}2$ pCi/m^3 . The preoperational (1973-1974) average concentration was $8.2\text{E-}2$ pCi/m^3 , while the average activity in the recent past (2000-2004) was $1.73\text{E-}2$ pCi/m^3 (Table 4). The airborne concentrations of gross beta activity in 2005 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. AP-204 on April 25, 2005 was listed as a missed surveillance due to a blown fuse and AP-205 on September 19, 2005; was due to a blown fuse on the power pole.

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 260 indicator and 52 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 2005.

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 2005, and this media was represented by indigenous vegetation samples consisting primarily of wild cherry and 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 2005; however, results indicated detectable concentrations of Cs-137 in one indicator sample ($3.32\text{E-}2$ pCi/g Wet) and one control sample ($3.66\text{E-}2$ pCi/g Wet) for wax myrtle broadleaf vegetation in 2005. Upon comparing these results, it is concluded that the values reflect fallout Cs-137 contamination. No other gamma activity was detected in any sample, except for K-40 (potassium-40) and other naturally occurring gamma activity.

Fish and Invertebrates

Fish (free swimmers and bottom feeders), invertebrate (SH), and 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 2005. All radionuclides positively identified by the radionuclide analyses were naturally occurring nuclides.

Shoreline Sediments

Two shoreline sediments in 2005 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 SW-401 (discharge canal sample) in March 2005, with tritium activity of 322 pCi/Liter (NCR # 159230). The tritium detected in SW-401 was a result of plant effluent during a time when dilution flow to the discharge canal was reduced due to plant operation. The tritium activity observed is well below the reportability limit of 30,000 pCi/Liter. Figure 9 depicts the observed tritium concentrations for 2005.

External Radiation Exposure

The environmental data on external radiation exposure for 2005 was essentially unchanged from 1989-2004 with an average exposure for all of 2005 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 4.8 miles SSW. The exposure was 11.8 mR per quarter. Figure 10 depicts average inner and outer ring TLD data for each quarter of 2005. 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

<u>Location</u>	<u>Gross Beta Activity (pCi/m³)</u>							
	<u>Preoperational</u>		<u>Recent Operational</u>					
	<u>1973</u>	<u>1974</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
AP-200	2.2E-2	1.4E-1	2.0E-2	1.8E-2	1.5E-2	1.4E-2	1.7E-2	1.8E-2
AP-201	3.1E-2	1.4E-1	2.0E-2	1.9E-2	1.6E-2	1.5E-2	1.8E-2	1.9E-2
AP-202	3.4E-2	1.4E-1	2.0E-2	1.8E-2	1.6E-2	1.5E-2	1.7E-2	1.7E-2
AP-203	2.4E-2	1.3E-1	2.1E-2	1.8E-2	1.6E-2	1.6E-2	1.8E-2	1.8E-2
AP-204*	2.5E-2	1.3E-1	2.0E-2	1.9E-2	1.7E-2	1.6E-2	1.8E-2	1.9E-2
AP-205	**	**	1.9E-2	1.7E-2	1.4E-2	1.4E-2	1.8E-2	1.8E-2

* Control location

** This sample point added post-operational.

TABLE 5
Brunswick Steam Electric Plant
HISTORICAL TLD RESULTS (1972-2005)

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)

*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 2005.

Missed Surveillances:

- APAC-204, April 25 – Missed surveillance due to a blown fuse. – Sample was counted (NCR # 157252).
- APAC-205, September 19 – Missed surveillance due to a loss of power when tree limbs touched power lines during the storm and caused the fuse to blow on the power pole. – Sample was counted (NCR # 169546).

Food Crops / Vegetation

No food crops were grown in the vicinity of the plant in 2005; therefore, none were collected. The media were represented by indigenous vegetation samples (broadleaf vegetation) consisting primarily of wild cherry and wax myrtle leaves.

Thermoluminescent Dosimeters (TLDs)

One out of a possible 180 TLD samples was missing during 2005. The missing TLD occurred:

Second Quarter - TLD 31 was missing in the field and the cause could not be determined (NCR # 162768).

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 $4.2\text{E-}3$ 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 $3.25\text{E+}2$ pCi/L. This lower LLD was established in June 1996 to compare BSEP tritium LLDs and North Carolina Department of Radiation Protection's reportable concentrations, in the Split Sample Program's Annual Report. The LLD in January 2005 was increased to $3.75\text{E+}2$ pCi/L due to a problem with the wrong type of glass liquid scintillation vials being used (NCR # 150577), but returned back to $3.25\text{E+}2$ pCi/L in February 2005 when the sample count time was changed to 200 minutes.

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 $6.8\text{E-}2$ 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. The count time was increased in 1997 from 3,600 seconds to 7,000 seconds due to decreased sample volumes.

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 and edible portions of invertebrate organisms are cleaned, dressed, and placed in a Marinelli beaker for analysis for a typical count time of 1,500 seconds.

Thermoluminescent Dosimetry

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

Dosimeters are machine annealed before field placement. Following exposure in the field, each dosimeter is read utilizing a Panasonic TLD reader. This instrument integrates the light photons emitted from traps as the dosimeter is heated. Calibration is calculated using dosimeters irradiated to known doses for each set of dosimeters measured. Prior to the measurement of each dosimeter, the instrument is checked through use of an internal constant light source as a secondary standard.

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

Interlaboratory Comparison Program

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

During 2005, 104 analyses were completed on 19 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 104 analyses have been received from Analytics, Inc. The results shall be compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental monitoring.

All 104 analyses were within the current acceptance criteria used to monitor equipment performance by the radioanalytical lab. During the review of this report it was determined that the method used to implement the acceptance criteria requires additional validation to assure it meets the intent of site requirements. NCR # 194215 has been written to perform this evaluation and document results. 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 / 5
I-131	14
Cs-134	4
Cs-137	4
Ba-La-140	33 / 14
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	148
Cs-137	121
Fish	
Isotope	LLD (pCi/kg, wet)
Mn-54	97
Co-58	102
Fe-59	238
Co-60	127
Zn-65	256
Cs-134	128
Cs-137	115
Food Products and Vegetation	
Isotope	LLD (pCi/kg, wet)
I-131	42
Cs-134	47
Cs-137	45

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.

2005 Land Use Census Results

The 2004 and 2005 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 7.

The resident portion of the census conducted in June of 2005 did not identify a change in the distance of the nearest resident from plant center from 2004. The garden portion of the census identified changes in the distances, locations, and existence of the nearest garden in four sectors.

The nearest garden location changed in the South (S) sector from no garden being present to a garden at 1.8 miles, the West (W) sector at 1.1 miles to 2.4 miles, the West Northwest (WNW) sector at 1.0 mile to no garden, and the North Northwest (NNW) at 4.4 miles to 0.9 miles. No milk animals were located within 5 miles of the plant in 2005.

The 2005 Garden Census was conducted within 3 miles of BSEP and identifies all gardens of greater than 500 square feet that were found in the survey area. Results of the garden census are located in Table 8.

Results of the 2005 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 (2004 - 2005)
NEAREST PATHWAY (MILES)

SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2004	2005	2004	2005	2004	2005
N	0.7	0.7	None	None	None	None
NNE	0.8	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	1.5	1.5	None	None	None	None
SE	0.9	0.9	None	None	None	None
SSE	1.0	1.0	None	None	None	None
S	1.1	1.1	None	1.8*	None	None
SSW	1.2	1.2	1.5	1.5	None	None
SW	1.0	1.0	2.9	2.9	None	None
WSW	1.2	1.2	1.2	1.2	None	None
W	0.8	0.8	1.1	2.4*	None	None
WNW	0.8	0.8	1.0	None*	None	None
NW	0.9	0.9	4.8	4.8	None	None
NNW	0.8	0.8	4.4	0.9*	None	None

* Represents a change from the previous year.

TABLE 8
Brunswick Steam Electric Plant
GARDEN CENSUS (2005)

SECTOR	DISTANCE (miles)		SECTOR	DISTANCE (miles)
N	None		NNW	4.4
NNE	None			
NE	None			
ENE	None			
E	None			
ESE	None			
SE	None			
SSE	None			
S	1.8			
SSW	1.5			
SSW	1.8			
SSW	1.9			
SSW	2.4			
SSW	2.8			
SW	2.9			
WSW	1.2			
WSW	1.5			
WSW	1.8			
WSW	2.7			
WSW	3.4			
WSW	3.5			
W	2.4			
W	2.6			
WNW	None			
NW	4.8			
NNW	0.9			

Figure 4 For BSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

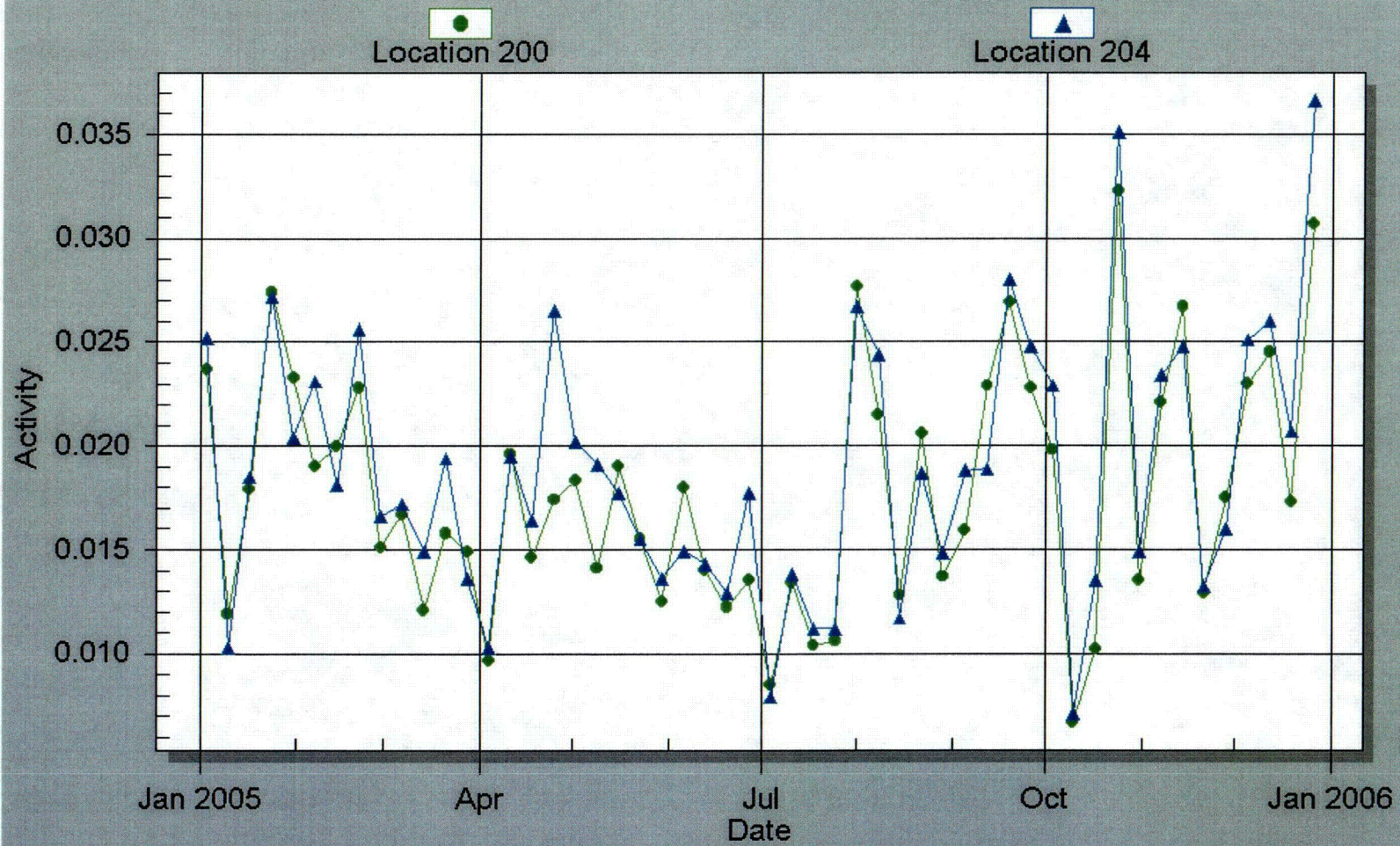


Figure 5 For BSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

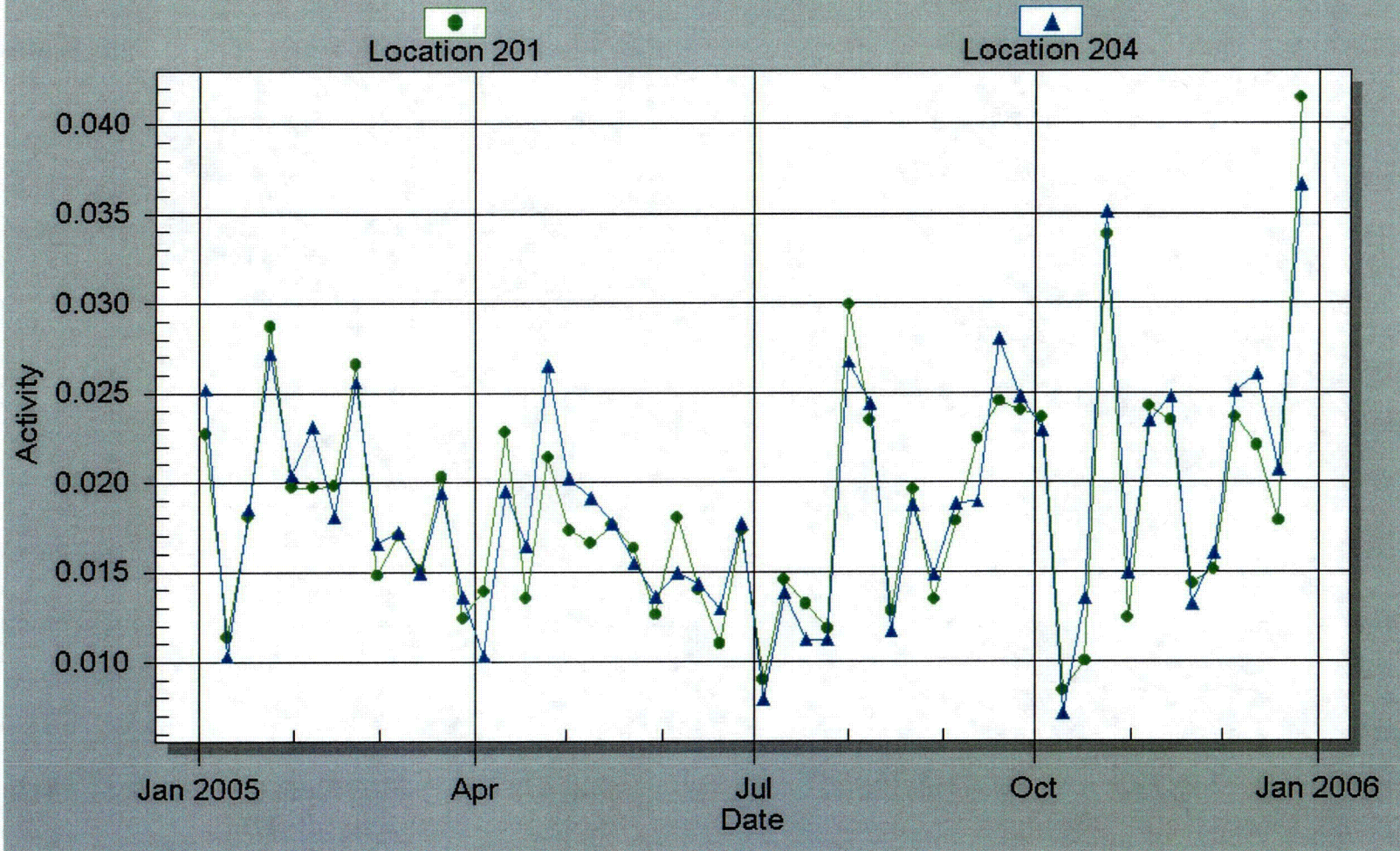
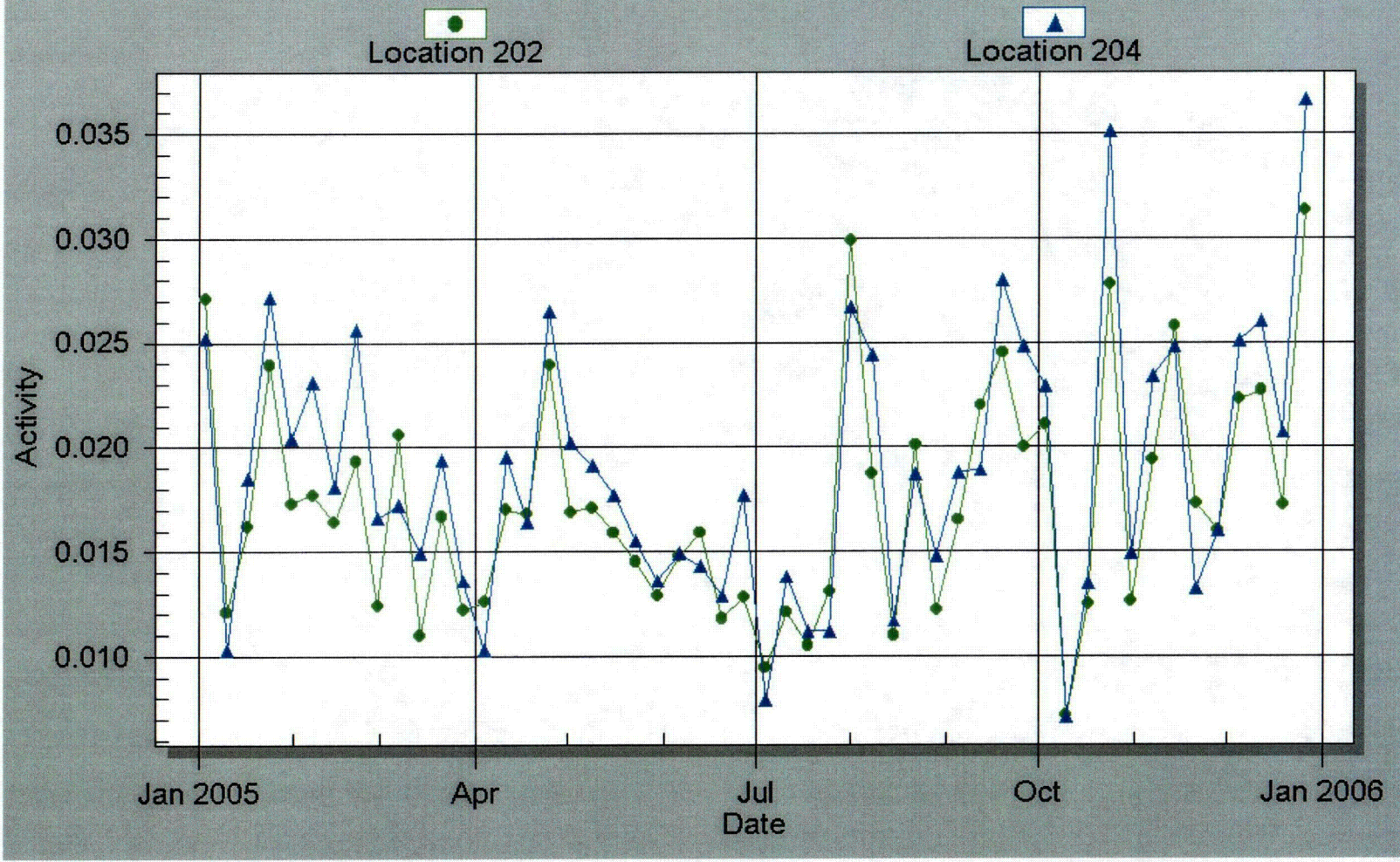


Figure 6 For BSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)



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Figure 7 For BSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

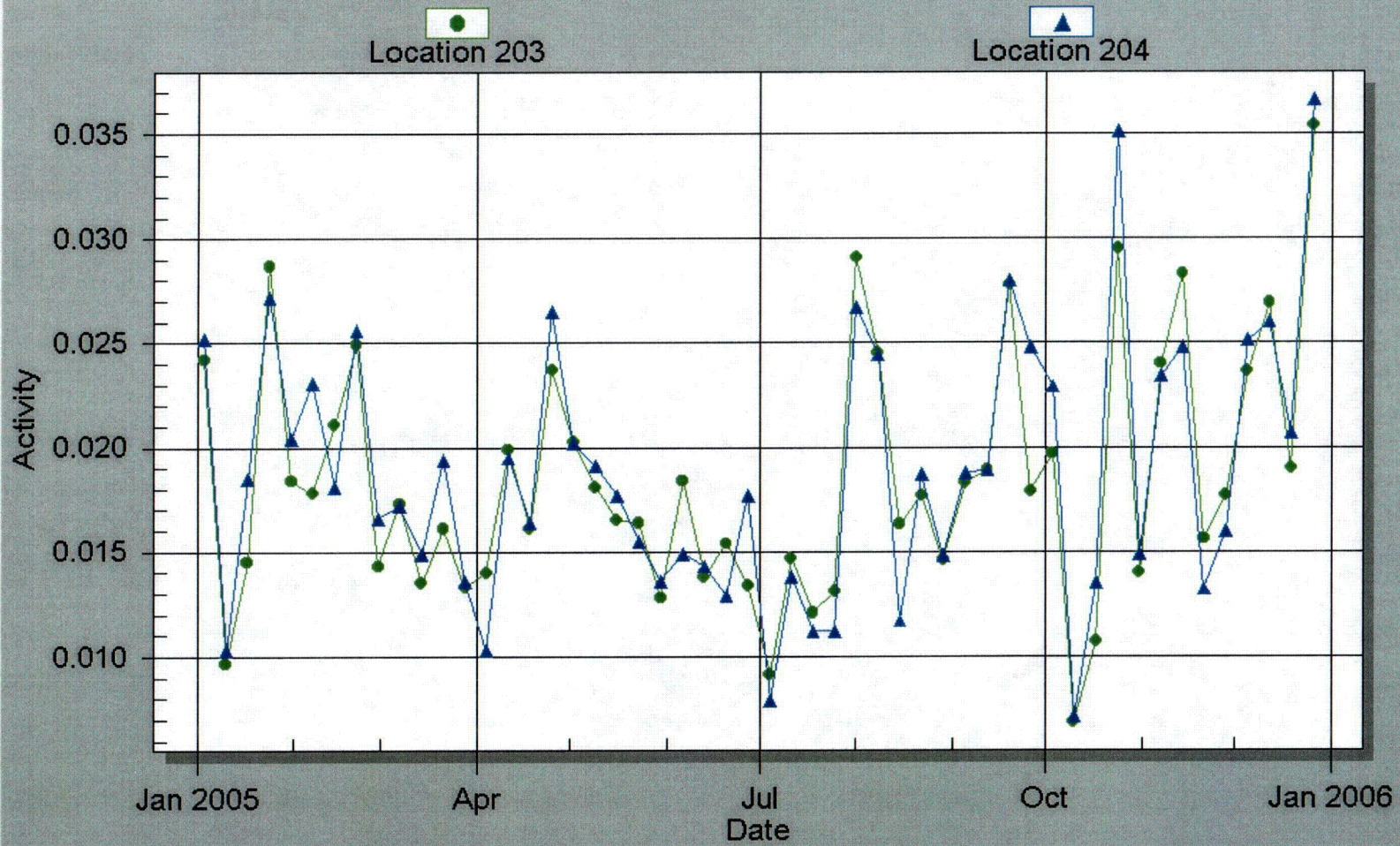


Figure 8 For BSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

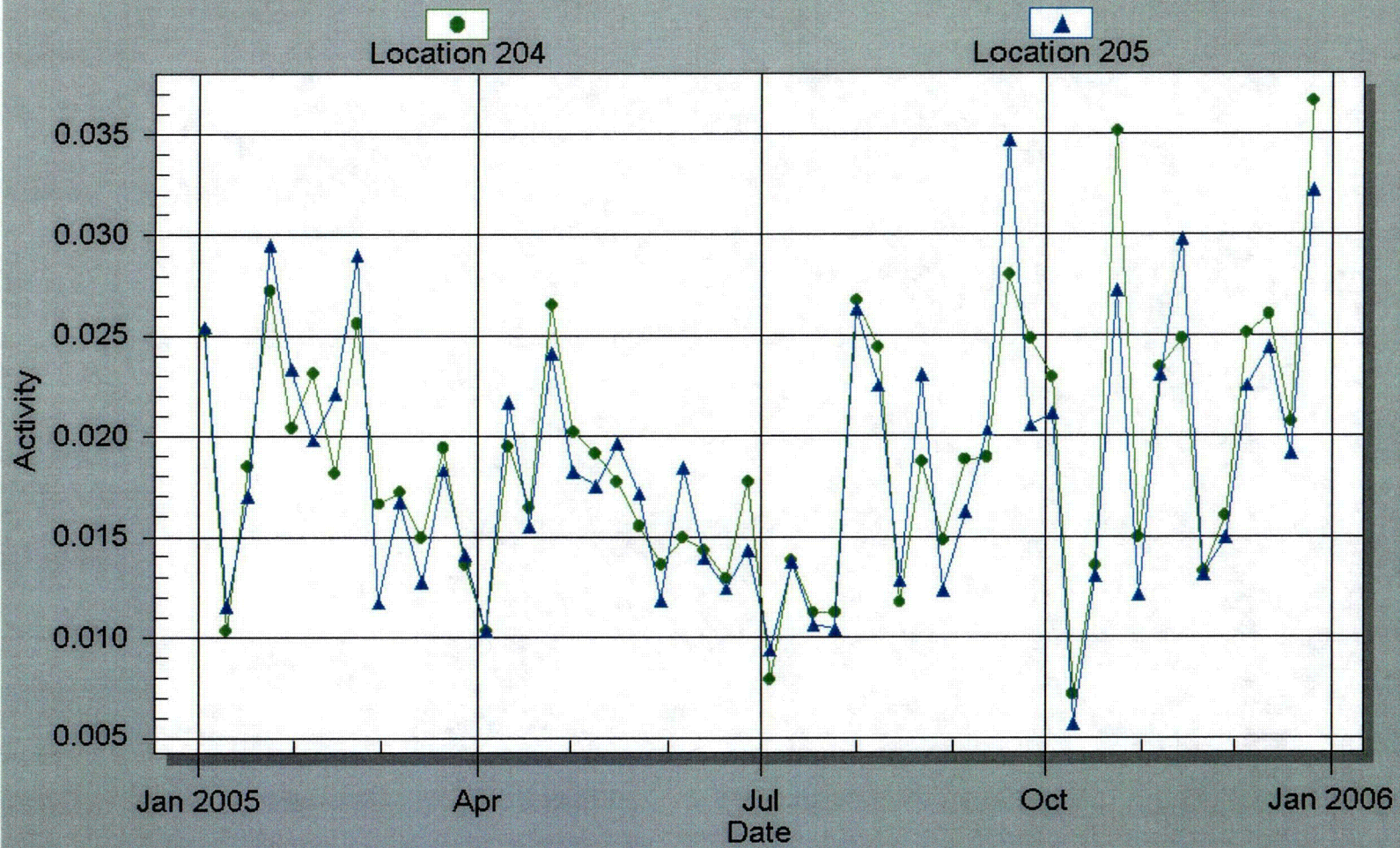
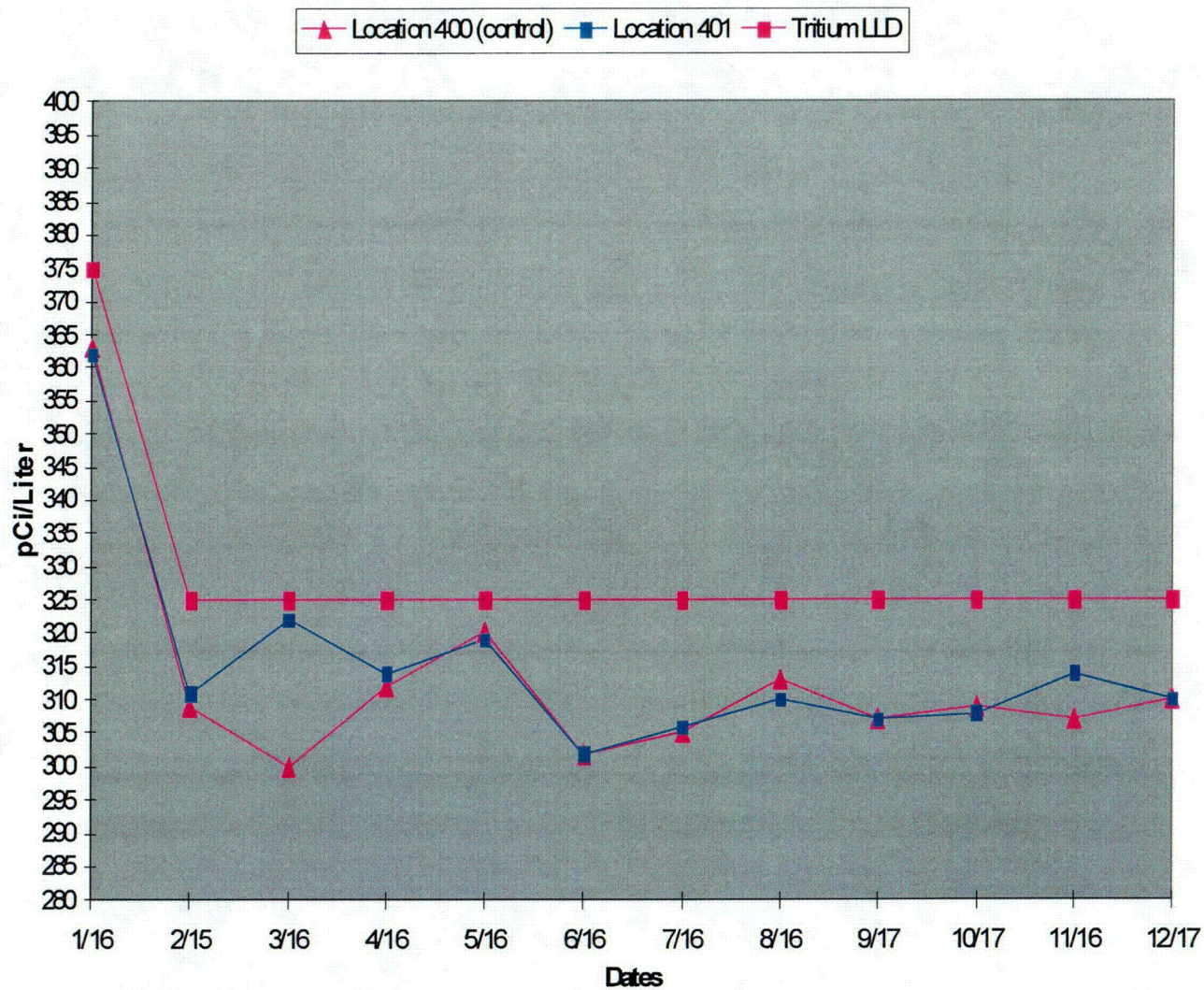
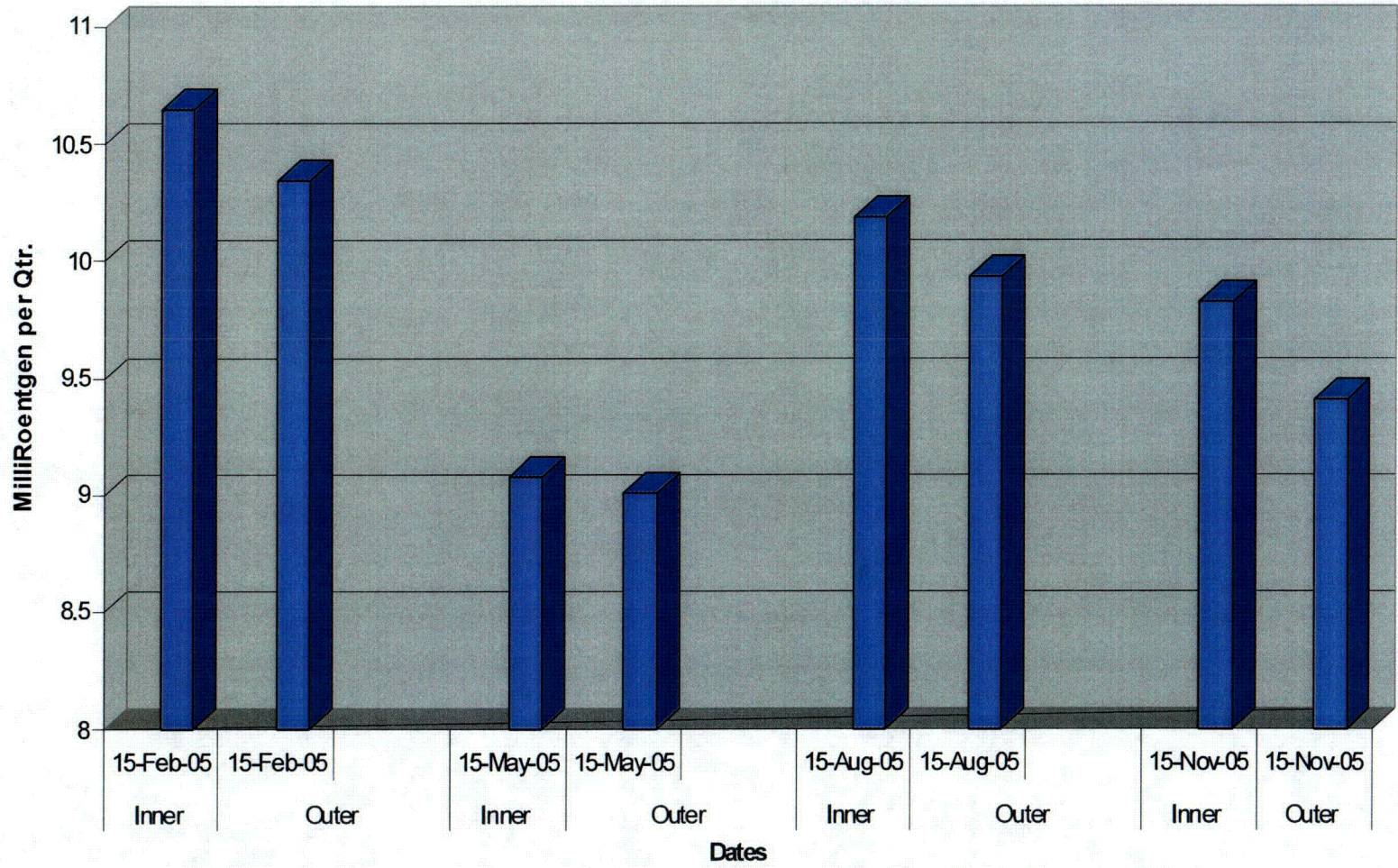


Figure 9 ESEP 2005 Surface Water Tritium



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Figure 10 BSEP 2005 TLD Averages for Inner and Outer Ring Locations



2005 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.
- TLD # 31 was missing in 2005

BNP Radiological Environmental Monitoring TLD Report

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
1	1.1 MI E	2/15/2005	10	1.6
1	1.1 MI E	5/15/2005	9	1
1	1.1 MI E	8/15/2005	9.3	0.9
1	1.1 MI E	11/15/2005	9.9	1.4
2	0.9 MI ESE	2/15/2005	11.1	0.9
2	0.9 MI ESE	5/15/2005	9.8	0.6
2	0.9 MI ESE	8/15/2005	8.9	1.2
2	0.9 MI ESE	11/15/2005	10	1.4
3	0.9 MI SE	2/15/2005	9.9	0.7
3	0.9 MI SE	5/15/2005	10.2	1.2
3	0.9 MI SE	8/15/2005	9.2	1.1
3	0.9 MI SE	11/15/2005	10.6	0.9
4	1.1 MI SSE	2/15/2005	10.8	0.6
4	1.1 MI SSE	5/15/2005	9.4	0.9
4	1.1 MI SSE	8/15/2005	10.7	1
4	1.1 MI SSE	11/15/2005	10	0.8
5	1.1 MI S	2/15/2005	10.2	1
5	1.1 MI S	5/15/2005	9.3	0.9
5	1.1 MI S	8/15/2005	10.5	1.3
5	1.1 MI S	11/15/2005	9.9	0.6
6	1.1 MI SSW	2/15/2005	9.3	1.1
6	1.1 MI SSW	5/15/2005	7.8	0.7

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
6	1.1 MI SSW	8/15/2005	11.1	0.9
6	1.1 MI SSW	11/15/2005	12.2	0.4
7	1.1 MI SW	2/15/2005	10.4	1.6
7	1.1 MI SW	5/15/2005	9.5	1.1
7	1.1 MI SW	8/15/2005	9.7	1.6
7	1.1 MI SW	11/15/2005	10	0.9
8	1.2 MI W	2/15/2005	10.9	0.8
8	1.2 MI W	5/15/2005	9.8	0.8
8	1.2 MI W	8/15/2005	10.3	1.1
8	1.2 MI W	11/15/2005	10.2	1
9	1.0 MI WNW	2/15/2005	11.3	2.3
9	1.0 MI WNW	5/15/2005	8.8	0.9
9	1.0 MI WNW	8/15/2005	10.8	1.3
9	1.0 MI WNW	11/15/2005	9.8	0.8
10	0.8 MI NW	2/15/2005	9	0.8
10	0.8 MI NW	5/15/2005	7.8	1.1
10	0.8 MI NW	8/15/2005	8.8	1.2
10	0.8 MI NW	11/15/2005	8.5	0.5
11	0.9 MI NNW	2/15/2005	11.9	0.9
11	0.9 MI NNW	5/15/2005	8.6	0.9
11	0.9 MI NNW	8/15/2005	12.4	0.9
11	0.9 MI NNW	11/15/2005	9.5	0.8
12	1.1 MI N	2/15/2005	10.6	1.4
12	1.1 MI N	5/15/2005	9.2	0.8

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
12	1.1 MI N	8/15/2005	10	0.9
12	1.1 MI N	11/15/2005	9.6	1.4
13	1.2 MI NNE	2/15/2005	9.6	0.8
13	1.2 MI NNE	5/15/2005	8.3	1
13	1.2 MI NNE	8/15/2005	8.9	0.9
13	1.2 MI NNE	11/15/2005	9	0.8
14	0.5 MI NE	2/15/2005	10.8	1
14	0.5 MI NE	5/15/2005	10.4	0.7
14	0.5 MI NE	8/15/2005	11	1.3
14	0.5 MI NE	11/15/2005	10.3	0.8
15	0.9 MI ENE	2/15/2005	11.1	0.8
15	0.9 MI ENE	5/15/2005	10.6	1
15	0.9 MI ENE	8/15/2005	11	1.4
15	0.9 MI ENE	11/15/2005	11.2	0.7
16	1.0 MI WSW	2/15/2005	9.7	1.4
16	1.0 MI WSW	5/15/2005	8.7	0.8
16	1.0 MI WSW	8/15/2005	9	0.9
16	1.0 MI WSW	11/15/2005	9.3	2
17	1.4 MI ESE	2/15/2005	12.7	1.8
17	1.4 MI ESE	5/15/2005	9.8	1.3
17	1.4 MI ESE	8/15/2005	11.9	2.3
17	1.4 MI ESE	11/15/2005	10.6	2.5
18	1.7 MI SE	2/15/2005	13	3.8
18	1.7 MI SE	5/15/2005	8.3	0.6

Dose: mR/std. qtr.

TLD	TLD Location Description	Sample Date	Dose	2 Sigma Error
18	1.7 MI SE	8/15/2005	10.8	1.7
18	1.7 MI SE	11/15/2005	9.1	0.4
20	2.1 MI S	2/15/2005	10.6	1.1
20	2.1 MI S	5/15/2005	7.5	1.2
20	2.1 MI S	8/15/2005	10	1.6
20	2.1 MI S	11/15/2005	8.1	0.8
21	2.9 MI SSW	2/15/2005	9.5	0.9
21	2.9 MI SSW	5/15/2005	8.4	0.6
21	2.9 MI SSW	8/15/2005	9.4	1.4
21	2.9 MI SSW	11/15/2005	8.9	0.4
22	5.3 MI SW	2/15/2005	9.9	0.9
22	5.3 MI SW	5/15/2005	9.6	1.3
22	5.3 MI SW	8/15/2005	8.9	0.8
22	5.3 MI SW	11/15/2005	9.7	0.7
23	4.6 MI WSW	2/15/2005	10.3	0.9
23	4.6 MI WSW	5/15/2005	7.4	0.6
23	4.6 MI WSW	8/15/2005	9.8	1
23	4.6 MI WSW	11/15/2005	8	0.8
24	3.0 MI W	2/15/2005	11	2
24	3.0 MI W	5/15/2005	9.7	0.8
24	3.0 MI W	8/15/2005	10.1	0.8
24	3.0 MI W	11/15/2005	10.4	1
25	8.6 MI WNW	2/15/2005	10	0.6
25	8.6 MI WNW	5/15/2005	9.3	1.1

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
25	8.6 MI WNW	8/15/2005	9.3	1.1
25	8.6 MI WNW	11/15/2005	9.4	0.6
26	5.9 MI NW	2/15/2005	12.8	1.7
26	5.9 MI NW	5/15/2005	9.9	0.9
26	5.9 MI NW	8/15/2005	11.9	1.3
26	5.9 MI NW	11/15/2005	10.2	0.5
27	5.1 MI NNW	2/15/2005	9.5	0.7
27	5.1 MI NNW	5/15/2005	8.1	0.8
27	5.1 MI NNW	8/15/2005	9.7	0.9
27	5.1 MI NNW	11/15/2005	8.4	0.8
28	4.2 MI NW	2/15/2005	10.9	0.7
28	4.2 MI NW	5/15/2005	9.2	1.2
28	4.2 MI NW	8/15/2005	10.6	1.8
28	4.2 MI NW	11/15/2005	9.6	0.8
29	2.6 MI SSW	2/15/2005	9.5	0.7
29	2.6 MI SSW	5/15/2005	8	0.8
29	2.6 MI SSW	8/15/2005	8.6	0.9
29	2.6 MI SSW	11/15/2005	8.5	0.4
30	2.0 MI NE	2/15/2005	12.6	1
30	2.0 MI NE	5/15/2005	9.8	0.7
30	2.0 MI NE	8/15/2005	11.9	1.1
30	2.0 MI NE	11/15/2005	10.2	0.7
31	2.5 MI ENE	2/15/2005	9.8	0.6
31	2.5 MI ENE	8/15/2005	9.9	1

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
31	2.5 MI ENE	11/15/2005	10.2	1
32	5.8 MI ENE	2/15/2005	12.1	1.7
32	5.8 MI ENE	5/15/2005	10.6	1
32	5.8 MI ENE	8/15/2005	11.5	1
32	5.8 MI ENE	11/15/2005	11.4	1.9
33	4.1 MI E	2/15/2005	9.8	0.8
33	4.1 MI E	5/15/2005	8.6	0.6
33	4.1 MI E	8/15/2005	9	0.9
33	4.1 MI E	11/15/2005	8.8	0.8
34	5.4 MI E	2/15/2005	9.3	0.9
34	5.4 MI E	5/15/2005	8.7	0.9
34	5.4 MI E	8/15/2005	9.2	1.9
34	5.4 MI E	11/15/2005	9.6	1.5
35	7.3 MI SSE	2/15/2005	8.1	1.1
35	7.3 MI SSE	5/15/2005	8.2	0.8
35	7.3 MI SSE	8/15/2005	7.4	1
35	7.3 MI SSE	11/15/2005	8.5	0.9
36	8.9 MI NE	2/15/2005	10	1
36	8.9 MI NE	5/15/2005	9.5	0.8
36	8.9 MI NE	8/15/2005	10	1.5
36	8.9 MI NE	11/15/2005	10.1	1.2
37	5.5 MI NW	2/15/2005	9.3	1.1
37	5.5 MI NW	5/15/2005	7.9	0.7
37	5.5 MI NW	8/15/2005	8.8	1.1

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
37	5.5 MI NW	11/15/2005	8.4	0.4
38	11.0 MI W	2/15/2005	9.4	1.2
38	11.0 MI W	5/15/2005	8.5	1.2
38	11.0 MI W	8/15/2005	9.2	1.5
38	11.0 MI W	11/15/2005	8.7	1.5
39	5.3 MI SW	2/15/2005	9.2	1
39	5.3 MI SW	5/15/2005	8.8	0.7
39	5.3 MI SW	8/15/2005	9	0.8
39	5.3 MI SW	11/15/2005	9.7	0.5
40	6.9 MI WSW	2/15/2005	8.7	1.7
40	6.9 MI WSW	5/15/2005	8.9	0.6
40	6.9 MI WSW	8/15/2005	8.6	1.1
40	6.9 MI WSW	11/15/2005	9.3	0.5
75	4.7 MI S	2/15/2005	10.5	0.8
75	4.7 MI S	5/15/2005	9.8	0.9
75	4.7 MI S	8/15/2005	10.3	1.2
75	4.7 MI S	11/15/2005	10.6	0.4
76	4.8 MI SSW	2/15/2005	13.2	1.2
76	4.8 MI SSW	5/15/2005	10.3	0.9
76	4.8 MI SSW	8/15/2005	12.6	1
76	4.8 MI SSW	11/15/2005	11	1.2
77	5.4 MI S	2/15/2005	11	0.7
77	5.4 MI S	5/15/2005	9	1.6
77	5.4 MI S	8/15/2005	11.4	1.2

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
77	5.4 MI S	11/15/2005	8.4	0.5
78	9.9 MI NNE	2/15/2005	9.2	1.4
78	9.9 MI NNE	5/15/2005	8.5	0.7
78	9.9 MI NNE	8/15/2005	8.5	1.1
78	9.9 MI NNE	11/15/2005	9.3	0.5
79	9.5 MI N	2/15/2005	12.5	1.6
79	9.5 MI N	5/15/2005	9.3	0.7
79	9.5 MI N	8/15/2005	11.7	1.3
79	9.5 MI N	11/15/2005	9.2	0.5
81	9.9 MI WNW - CONTROL	2/15/2005	12.2	1.3
81	9.9 MI WNW - CONTROL	5/15/2005	9.3	1.2
81	9.9 MI WNW - CONTROL	8/15/2005	11.9	1.9
81	9.9 MI WNW - CONTROL	11/15/2005	9.5	0.9

2005 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

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
200	1.0 MI WSW - VISITORS CENTER	1/3/2005	281.4	3.73E-01	2.37E-02	3.58E-03	3.58E-03
200	1.0 MI WSW - VISITORS CENTER	1/10/2005	283	3.73E-01	1.19E-02	3.06E-03	3.79E-03
200	1.0 MI WSW - VISITORS CENTER	1/17/2005	277.3	3.73E-01	1.79E-02	3.29E-03	3.52E-03
200	1.0 MI WSW - VISITORS CENTER	1/24/2005	279.7	3.73E-01	2.74E-02	3.60E-03	3.09E-03
200	1.0 MI WSW - VISITORS CENTER	1/31/2005	270.3	3.73E-01	2.33E-02	3.56E-03	3.43E-03
200	1.0 MI WSW - VISITORS CENTER	2/7/2005	280.3	3.73E-01	1.90E-02	3.39E-03	3.66E-03
200	1.0 MI WSW - VISITORS CENTER	2/14/2005	281.9	3.73E-01	2.00E-02	3.38E-03	3.50E-03
200	1.0 MI WSW - VISITORS CENTER	2/21/2005	284.4	3.73E-01	2.28E-02	3.41E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	2/28/2005	281.4	3.73E-01	1.51E-02	3.01E-03	3.25E-03
200	1.0 MI WSW - VISITORS CENTER	3/7/2005	285	3.73E-01	1.67E-02	3.18E-03	3.47E-03
200	1.0 MI WSW - VISITORS CENTER	3/14/2005	271.7	3.73E-01	1.21E-02	3.05E-03	3.68E-03
200	1.0 MI WSW - VISITORS CENTER	3/21/2005	283.1	3.73E-01	1.58E-02	3.05E-03	3.25E-03
200	1.0 MI WSW - VISITORS CENTER	3/28/2005	288.6	3.62E-01	1.49E-02	3.08E-03	3.43E-03
200	1.0 MI WSW - VISITORS CENTER	4/4/2005	283.8	3.73E-01	9.70E-03	2.82E-03	3.55E-03
200	1.0 MI WSW - VISITORS CENTER	4/11/2005	289	3.73E-01	1.96E-02	3.33E-03	3.51E-03
200	1.0 MI WSW - VISITORS CENTER	4/18/2005	287.7	3.62E-01	1.46E-02	3.06E-03	3.42E-03
200	1.0 MI WSW - VISITORS CENTER	4/25/2005	285.4	3.73E-01	1.74E-02	3.19E-03	3.42E-03
200	1.0 MI WSW - VISITORS CENTER	5/2/2005	289.6	3.73E-01	1.83E-02	3.20E-03	3.34E-03
200	1.0 MI WSW - VISITORS CENTER	5/9/2005	289.7	3.73E-01	1.41E-02	3.03E-03	3.50E-03
200	1.0 MI WSW - VISITORS CENTER	5/16/2005	298.3	3.73E-01	1.90E-02	3.23E-03	3.42E-03
200	1.0 MI WSW - VISITORS CENTER	5/23/2005	279.7	3.73E-01	1.55E-02	3.20E-03	3.64E-03
200	1.0 MI WSW - VISITORS CENTER	5/30/2005	289.7	3.73E-01	1.25E-02	2.88E-03	3.34E-03
200	1.0 MI WSW - VISITORS CENTER	6/6/2005	293.6	3.73E-01	1.80E-02	2.98E-03	2.84E-03
200	1.0 MI WSW - VISITORS CENTER	6/13/2005	297.1	3.73E-01	1.40E-02	2.81E-03	3.01E-03
200	1.0 MI WSW - VISITORS CENTER	6/20/2005	289.9	3.73E-01	1.22E-02	2.80E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	6/27/2005	297.1	3.73E-01	1.35E-02	2.93E-03	3.37E-03
200	1.0 MI WSW - VISITORS CENTER	7/4/2005	290.5	3.73E-01	8.48E-03	2.55E-03	3.17E-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	
200	1.0 MI WSW - VISITORS CENTER	7/11/2005	298.4	3.73E-01	1.34E-02	2.78E-03	3.02E-03
200	1.0 MI WSW - VISITORS CENTER	7/18/2005	288.6	3.73E-01	1.04E-02	2.72E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	7/25/2005	297.9	3.73E-01	1.06E-02	2.67E-03	3.16E-03
200	1.0 MI WSW - VISITORS CENTER	8/1/2005	289.6	3.73E-01	2.77E-02	3.69E-03	3.45E-03
200	1.0 MI WSW - VISITORS CENTER	8/8/2005	294.8	3.73E-01	2.15E-02	3.41E-03	3.52E-03
200	1.0 MI WSW - VISITORS CENTER	8/15/2005	296.8	3.73E-01	1.28E-02	2.80E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	8/22/2005	288.2	3.73E-01	2.06E-02	3.27E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	8/29/2005	298	3.73E-01	1.37E-02	2.84E-03	3.14E-03
200	1.0 MI WSW - VISITORS CENTER	9/5/2005	292.8	3.73E-01	1.59E-02	3.00E-03	3.19E-03
200	1.0 MI WSW - VISITORS CENTER	9/12/2005	291.8	3.73E-01	2.29E-02	3.27E-03	2.91E-03
200	1.0 MI WSW - VISITORS CENTER	9/19/2005	294.9	3.73E-01	2.69E-02	3.55E-03	3.22E-03
200	1.0 MI WSW - VISITORS CENTER	9/26/2005	294	3.73E-01	2.28E-02	3.33E-03	3.11E-03
200	1.0 MI WSW - VISITORS CENTER	10/3/2005	293.3	3.73E-01	1.98E-02	3.09E-03	2.87E-03
200	1.0 MI WSW - VISITORS CENTER	10/10/2005	290.3	3.73E-01	6.74E-03	2.60E-03	3.51E-03
200	1.0 MI WSW - VISITORS CENTER	10/17/2005	289.3	3.73E-01	1.02E-02	2.59E-03	2.99E-03
200	1.0 MI WSW - VISITORS CENTER	10/24/2005	288.7	3.73E-01	3.23E-02	3.84E-03	3.26E-03
200	1.0 MI WSW - VISITORS CENTER	10/31/2005	285.5	3.73E-01	1.35E-02	2.93E-03	3.30E-03
200	1.0 MI WSW - VISITORS CENTER	11/7/2005	291.6	3.73E-01	2.21E-02	3.36E-03	3.28E-03
200	1.0 MI WSW - VISITORS CENTER	11/14/2005	281.8	3.73E-01	2.67E-02	3.65E-03	3.37E-03
200	1.0 MI WSW - VISITORS CENTER	11/21/2005	287.5	3.73E-01	1.29E-02	3.01E-03	3.59E-03
200	1.0 MI WSW - VISITORS CENTER	11/28/2005	286.8	3.73E-01	1.75E-02	3.32E-03	3.72E-03
200	1.0 MI WSW - VISITORS CENTER	12/5/2005	285.2	3.88E-01	2.30E-02	3.39E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	12/12/2005	285.8	3.88E-01	2.45E-02	3.42E-03	3.19E-03
200	1.0 MI WSW - VISITORS CENTER	12/19/2005	276.7	3.88E-01	1.73E-02	3.09E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	12/26/2005	302.1	3.88E-01	3.07E-02	3.53E-03	2.87E-03
201	0.5 MI NE - PMAC	1/3/2005	271.7	3.73E-01	2.27E-02	3.62E-03	3.71E-03
201	0.5 MI NE - PMAC	1/10/2005	272.8	3.73E-01	1.14E-02	3.12E-03	3.94E-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	1/17/2005	270.4	3.73E-01	1.81E-02	3.36E-03	3.60E-03
201	0.5 MI NE - PMAC	1/24/2005	271.4	3.73E-01	2.87E-02	3.74E-03	3.19E-03
201	0.5 MI NE - PMAC	1/31/2005	270.5	3.73E-01	1.97E-02	3.37E-03	3.43E-03
201	0.5 MI NE - PMAC	2/7/2005	282.2	3.73E-01	1.97E-02	3.41E-03	3.63E-03
201	0.5 MI NE - PMAC	2/14/2005	273.1	3.73E-01	1.98E-02	3.44E-03	3.62E-03
201	0.5 MI NE - PMAC	2/21/2005	275.7	3.73E-01	2.66E-02	3.68E-03	3.37E-03
201	0.5 MI NE - PMAC	2/28/2005	277.8	3.73E-01	1.48E-02	3.02E-03	3.29E-03
201	0.5 MI NE - PMAC	3/7/2005	272	3.73E-01	1.70E-02	3.30E-03	3.63E-03
201	0.5 MI NE - PMAC	3/14/2005	273.2	3.73E-01	1.51E-02	3.21E-03	3.66E-03
201	0.5 MI NE - PMAC	3/21/2005	274.2	3.73E-01	2.03E-02	3.37E-03	3.36E-03
201	0.5 MI NE - PMAC	3/28/2005	279	3.62E-01	1.24E-02	3.01E-03	3.55E-03
201	0.5 MI NE - PMAC	4/4/2005	278.9	3.73E-01	1.39E-02	3.10E-03	3.61E-03
201	0.5 MI NE - PMAC	4/11/2005	277.6	3.73E-01	2.28E-02	3.58E-03	3.65E-03
201	0.5 MI NE - PMAC	4/18/2005	277.8	3.62E-01	1.35E-02	3.08E-03	3.54E-03
201	0.5 MI NE - PMAC	4/25/2005	276.4	3.73E-01	2.14E-02	3.47E-03	3.53E-03
201	0.5 MI NE - PMAC	5/2/2005	280.8	3.73E-01	1.73E-02	3.21E-03	3.45E-03
201	0.5 MI NE - PMAC	5/9/2005	281.4	3.73E-01	1.66E-02	3.23E-03	3.60E-03
201	0.5 MI NE - PMAC	5/16/2005	287.3	3.73E-01	1.76E-02	3.25E-03	3.55E-03
201	0.5 MI NE - PMAC	5/23/2005	275.9	3.73E-01	1.63E-02	3.28E-03	3.69E-03
201	0.5 MI NE - PMAC	5/30/2005	279.8	3.73E-01	1.26E-02	2.96E-03	3.46E-03
201	0.5 MI NE - PMAC	6/6/2005	280.7	3.73E-01	1.80E-02	3.07E-03	2.97E-03
201	0.5 MI NE - PMAC	6/13/2005	286.9	3.73E-01	1.40E-02	2.88E-03	3.11E-03
201	0.5 MI NE - PMAC	6/20/2005	283.4	3.73E-01	1.10E-02	2.77E-03	3.27E-03
201	0.5 MI NE - PMAC	6/27/2005	284.2	3.73E-01	1.73E-02	3.23E-03	3.52E-03
201	0.5 MI NE - PMAC	7/4/2005	282.6	3.73E-01	8.97E-03	2.64E-03	3.26E-03
201	0.5 MI NE - PMAC	7/11/2005	287.9	3.73E-01	1.45E-02	2.91E-03	3.13E-03
201	0.5 MI NE - PMAC	7/18/2005	282.7	3.73E-01	1.32E-02	2.93E-03	3.33E-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	7/25/2005	286	3.73E-01	1.18E-02	2.83E-03	3.29E-03
201	0.5 MI NE - PMAC	8/1/2005	282.5	3.73E-01	2.99E-02	3.85E-03	3.54E-03
201	0.5 MI NE - PMAC	8/8/2005	281.6	3.73E-01	2.34E-02	3.61E-03	3.68E-03
201	0.5 MI NE - PMAC	8/15/2005	285.2	3.73E-01	1.28E-02	2.89E-03	3.30E-03
201	0.5 MI NE - PMAC	8/22/2005	283.5	3.73E-01	1.96E-02	3.25E-03	3.25E-03
201	0.5 MI NE - PMAC	8/29/2005	283.8	3.73E-01	1.34E-02	2.92E-03	3.29E-03
201	0.5 MI NE - PMAC	9/5/2005	282.8	3.73E-01	1.78E-02	3.18E-03	3.31E-03
201	0.5 MI NE - PMAC	9/12/2005	281.2	3.73E-01	2.24E-02	3.33E-03	3.02E-03
201	0.5 MI NE - PMAC	9/19/2005	281.7	3.73E-01	2.45E-02	3.55E-03	3.37E-03
201	0.5 MI NE - PMAC	9/26/2005	282	3.73E-01	2.40E-02	3.48E-03	3.24E-03
201	0.5 MI NE - PMAC	10/3/2005	280.1	3.73E-01	2.36E-02	3.39E-03	3.01E-03
201	0.5 MI NE - PMAC	10/10/2005	282.4	3.73E-01	8.38E-03	2.77E-03	3.61E-03
201	0.5 MI NE - PMAC	10/17/2005	275.6	3.73E-01	9.99E-03	2.67E-03	3.14E-03
201	0.5 MI NE - PMAC	10/24/2005	280.9	3.73E-01	3.38E-02	3.97E-03	3.35E-03
201	0.5 MI NE - PMAC	10/31/2005	274.3	3.73E-01	1.24E-02	2.95E-03	3.43E-03
201	0.5 MI NE - PMAC	11/7/2005	276	3.73E-01	2.42E-02	3.59E-03	3.46E-03
201	0.5 MI NE - PMAC	11/14/2005	274.5	3.73E-01	2.34E-02	3.55E-03	3.45E-03
201	0.5 MI NE - PMAC	11/21/2005	272.6	3.73E-01	1.43E-02	3.21E-03	3.78E-03
201	0.5 MI NE - PMAC	11/28/2005	268.8	3.73E-01	1.51E-02	3.35E-03	3.97E-03
201	0.5 MI NE - PMAC	12/5/2005	273.2	3.88E-01	2.36E-02	3.52E-03	3.43E-03
201	0.5 MI NE - PMAC	12/12/2005	273.6	3.88E-01	2.20E-02	3.40E-03	3.33E-03
201	0.5 MI NE - PMAC	12/19/2005	264.9	3.88E-01	1.78E-02	3.22E-03	3.34E-03
201	0.5 MI NE - PMAC	12/26/2005	241.5	3.88E-01	4.14E-02	4.55E-03	3.58E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/3/2005	281.3	3.73E-01	2.71E-02	3.75E-03	3.58E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/10/2005	281.9	3.73E-01	1.21E-02	3.08E-03	3.81E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/17/2005	276.8	3.73E-01	1.62E-02	3.20E-03	3.52E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/24/2005	278.3	3.73E-01	2.39E-02	3.44E-03	3.11E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/31/2005	269	3.73E-01	1.73E-02	3.26E-03	3.45E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/7/2005	278.5	3.73E-01	1.77E-02	3.34E-03	3.68E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	276.9	3.73E-01	1.64E-02	3.23E-03	3.57E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/21/2005	279	3.73E-01	1.93E-02	3.28E-03	3.33E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/28/2005	256.8	3.73E-01	1.24E-02	3.06E-03	3.56E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/7/2005	278.2	3.73E-01	2.06E-02	3.43E-03	3.55E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/14/2005	274.3	3.73E-01	1.10E-02	2.96E-03	3.65E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/21/2005	276.9	3.73E-01	1.67E-02	3.15E-03	3.33E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/28/2005	281.6	3.62E-01	1.22E-02	2.98E-03	3.52E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/4/2005	276.9	3.73E-01	1.26E-02	3.05E-03	3.64E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/11/2005	283.8	3.73E-01	1.70E-02	3.24E-03	3.57E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/18/2005	282.8	3.62E-01	1.68E-02	3.22E-03	3.48E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/25/2005	277.9	3.73E-01	2.39E-02	3.58E-03	3.51E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/2/2005	282.9	3.73E-01	1.69E-02	3.18E-03	3.42E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/9/2005	284.2	3.73E-01	1.71E-02	3.24E-03	3.56E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/16/2005	291.6	3.73E-01	1.59E-02	3.13E-03	3.50E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/23/2005	275.2	3.73E-01	1.45E-02	3.18E-03	3.70E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/30/2005	283.8	3.73E-01	1.29E-02	2.95E-03	3.41E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/6/2005	287.4	3.73E-01	1.48E-02	2.84E-03	2.90E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/13/2005	292.6	3.73E-01	1.59E-02	2.95E-03	3.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/20/2005	283.5	3.73E-01	1.18E-02	2.83E-03	3.27E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/27/2005	291.5	3.73E-01	1.28E-02	2.93E-03	3.43E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/4/2005	286.2	3.73E-01	9.45E-03	2.65E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/11/2005	295.5	3.73E-01	1.21E-02	2.72E-03	3.05E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/18/2005	284.4	3.73E-01	1.05E-02	2.76E-03	3.31E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/25/2005	294	3.73E-01	1.31E-02	2.85E-03	3.20E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/1/2005	287.3	3.73E-01	2.99E-02	3.81E-03	3.48E-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 RD	8/8/2005	291.1	3.73E-01	1.87E-02	3.30E-03	3.56E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/15/2005	293.1	3.73E-01	1.10E-02	2.72E-03	3.21E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/22/2005	288.2	3.73E-01	2.01E-02	3.24E-03	3.20E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/29/2005	294.3	3.73E-01	1.22E-02	2.78E-03	3.18E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/5/2005	290.5	3.73E-01	1.65E-02	3.05E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/12/2005	287.2	3.73E-01	2.20E-02	3.26E-03	2.96E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/19/2005	291	3.73E-01	2.45E-02	3.47E-03	3.26E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/26/2005	291	3.73E-01	2.00E-02	3.21E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/3/2005	289.3	3.73E-01	2.11E-02	3.19E-03	2.91E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/10/2005	286.5	3.73E-01	7.17E-03	2.66E-03	3.56E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/17/2005	286.2	3.73E-01	1.25E-02	2.75E-03	3.02E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/24/2005	285.2	3.73E-01	2.78E-02	3.66E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/31/2005	282.7	3.73E-01	1.26E-02	2.90E-03	3.33E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/7/2005	287.8	3.73E-01	1.94E-02	3.25E-03	3.32E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/14/2005	287	3.73E-01	2.58E-02	3.57E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/21/2005	282.9	3.73E-01	1.73E-02	3.29E-03	3.65E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/28/2005	281	3.73E-01	1.60E-02	3.29E-03	3.80E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/5/2005	281.7	3.88E-01	2.23E-02	3.38E-03	3.33E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/12/2005	281.5	3.88E-01	2.27E-02	3.37E-03	3.24E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/19/2005	273.3	3.88E-01	1.72E-02	3.12E-03	3.24E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/26/2005	297.2	3.88E-01	3.13E-02	3.59E-03	2.91E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/3/2005	282.9	3.73E-01	2.42E-02	3.60E-03	3.56E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/10/2005	284.9	3.73E-01	9.66E-03	2.92E-03	3.77E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/17/2005	279.5	3.73E-01	1.45E-02	3.08E-03	3.49E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/24/2005	283	3.73E-01	2.87E-02	3.65E-03	3.07E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/31/2005	273.6	3.73E-01	1.84E-02	3.27E-03	3.39E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/7/2005	283.2	3.73E-01	1.78E-02	3.30E-03	3.62E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2005	272.6	3.73E-01	2.11E-02	3.51E-03	3.62E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/21/2005	273.3	3.73E-01	2.49E-02	3.61E-03	3.40E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/28/2005	271.9	3.73E-01	1.43E-02	3.04E-03	3.36E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/7/2005	271.4	3.73E-01	1.73E-02	3.32E-03	3.64E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/14/2005	269.1	3.73E-01	1.35E-02	3.15E-03	3.72E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/21/2005	269.9	3.73E-01	1.61E-02	3.17E-03	3.41E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/28/2005	276.4	3.62E-01	1.33E-02	3.09E-03	3.58E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2005	273.5	3.73E-01	1.40E-02	3.15E-03	3.68E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2005	277.4	3.73E-01	1.99E-02	3.44E-03	3.65E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/18/2005	274.4	3.62E-01	1.61E-02	3.25E-03	3.59E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/25/2005	271.4	3.73E-01	2.37E-02	3.63E-03	3.59E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/2/2005	273	3.73E-01	2.03E-02	3.44E-03	3.55E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/9/2005	274.2	3.73E-01	1.81E-02	3.38E-03	3.69E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	284.5	3.73E-01	1.65E-02	3.21E-03	3.58E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/23/2005	269.5	3.73E-01	1.64E-02	3.34E-03	3.78E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/30/2005	278.4	3.73E-01	1.28E-02	2.99E-03	3.48E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/6/2005	280.3	3.73E-01	1.84E-02	3.10E-03	2.98E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/13/2005	287.2	3.73E-01	1.38E-02	2.86E-03	3.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/20/2005	278.4	3.73E-01	1.54E-02	3.07E-03	3.33E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/27/2005	285.7	3.73E-01	1.34E-02	3.01E-03	3.50E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/4/2005	279.1	3.73E-01	9.17E-03	2.68E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/11/2005	288.7	3.73E-01	1.47E-02	2.92E-03	3.12E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/18/2005	278.5	3.73E-01	1.21E-02	2.90E-03	3.38E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/25/2005	287.2	3.73E-01	1.31E-02	2.89E-03	3.28E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/1/2005	279.1	3.73E-01	2.91E-02	3.85E-03	3.58E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/8/2005	282	3.73E-01	2.45E-02	3.66E-03	3.68E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2005	282.7	3.73E-01	1.63E-02	3.11E-03	3.33E-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	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/22/2005	279	3.73E-01	1.77E-02	3.19E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/29/2005	279.8	3.73E-01	1.46E-02	3.02E-03	3.34E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/5/2005	280.8	3.73E-01	1.83E-02	3.22E-03	3.33E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/12/2005	278.5	3.73E-01	1.89E-02	3.16E-03	3.05E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/19/2005	281.5	3.73E-01	2.78E-02	3.70E-03	3.37E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/26/2005	280.2	3.73E-01	1.79E-02	3.18E-03	3.26E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/3/2005	279.3	3.73E-01	1.97E-02	3.19E-03	3.02E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/10/2005	276.2	3.73E-01	6.91E-03	2.73E-03	3.69E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/17/2005	274.7	3.73E-01	1.07E-02	2.72E-03	3.15E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/24/2005	273.1	3.73E-01	2.95E-02	3.85E-03	3.45E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/31/2005	268.3	3.73E-01	1.40E-02	3.10E-03	3.51E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/7/2005	271.5	3.73E-01	2.40E-02	3.62E-03	3.52E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2005	260.7	3.73E-01	2.83E-02	3.92E-03	3.64E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/21/2005	277	3.73E-01	1.56E-02	3.25E-03	3.72E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/28/2005	271.6	3.73E-01	1.77E-02	3.46E-03	3.93E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/5/2005	275.2	3.88E-01	2.36E-02	3.50E-03	3.40E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/12/2005	271.4	3.88E-01	2.69E-02	3.65E-03	3.36E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/19/2005	263.9	3.88E-01	1.90E-02	3.29E-03	3.36E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/26/2005	287.4	3.88E-01	3.54E-02	3.84E-03	3.01E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/3/2005	324.4	3.73E-01	2.52E-02	3.32E-03	3.10E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/10/2005	313.2	3.73E-01	1.03E-02	2.74E-03	3.43E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/17/2005	281.7	3.73E-01	1.85E-02	3.28E-03	3.46E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/24/2005	271.3	3.73E-01	2.72E-02	3.66E-03	3.19E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/31/2005	273.9	3.73E-01	2.04E-02	3.38E-03	3.39E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/7/2005	272.4	3.73E-01	2.31E-02	3.66E-03	3.76E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2005	273.5	3.73E-01	1.81E-02	3.35E-03	3.61E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/21/2005	276.3	3.73E-01	2.56E-02	3.62E-03	3.36E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/28/2005	268.4	3.73E-01	1.66E-02	3.20E-03	3.41E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/7/2005	251.3	3.73E-01	1.72E-02	3.51E-03	3.93E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/14/2005	265.9	3.73E-01	1.49E-02	3.26E-03	3.76E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/21/2005	270.6	3.73E-01	1.94E-02	3.34E-03	3.40E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/28/2005	280.8	3.62E-01	1.36E-02	3.07E-03	3.53E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2005	282.4	3.73E-01	1.03E-02	2.87E-03	3.56E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2005	283.5	3.73E-01	1.95E-02	3.37E-03	3.57E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/18/2005	276.1	3.62E-01	1.64E-02	3.25E-03	3.56E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/25/2005	168.8	3.73E-01	2.65E-02	5.24E-03	5.77E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/2/2005	273.2	3.73E-01	2.02E-02	3.43E-03	3.54E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/9/2005	285.1	3.73E-01	1.91E-02	3.34E-03	3.55E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2005	285.1	3.73E-01	1.77E-02	3.27E-03	3.57E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/23/2005	287.8	3.73E-01	1.55E-02	3.14E-03	3.54E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/30/2005	284.3	3.73E-01	1.36E-02	2.98E-03	3.41E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/6/2005	285.2	3.73E-01	1.49E-02	2.86E-03	2.93E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/13/2005	287.9	3.73E-01	1.43E-02	2.89E-03	3.10E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/20/2005	290.3	3.73E-01	1.29E-02	2.84E-03	3.20E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/27/2005	287	3.73E-01	1.77E-02	3.23E-03	3.49E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/4/2005	286.6	3.73E-01	7.92E-03	2.55E-03	3.21E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/11/2005	289.6	3.73E-01	1.38E-02	2.86E-03	3.11E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/18/2005	288.1	3.73E-01	1.12E-02	2.78E-03	3.27E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/25/2005	288.5	3.73E-01	1.12E-02	2.77E-03	3.26E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/1/2005	291.9	3.73E-01	2.67E-02	3.63E-03	3.43E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/8/2005	288.5	3.73E-01	2.44E-02	3.60E-03	3.60E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2005	289.1	3.73E-01	1.17E-02	2.80E-03	3.26E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/22/2005	290.5	3.73E-01	1.87E-02	3.15E-03	3.17E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/29/2005	288.6	3.73E-01	1.48E-02	2.97E-03	3.24E-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	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/5/2005	290.4	3.73E-01	1.88E-02	3.17E-03	3.22E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/12/2005	283.9	3.73E-01	1.89E-02	3.12E-03	2.99E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/19/2005	286.7	3.73E-01	2.80E-02	3.67E-03	3.31E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/26/2005	289.1	3.73E-01	2.48E-02	3.46E-03	3.16E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/3/2005	286.6	3.73E-01	2.29E-02	3.30E-03	2.94E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/10/2005	284.3	3.73E-01	7.14E-03	2.68E-03	3.58E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/17/2005	283.2	3.73E-01	1.35E-02	2.83E-03	3.05E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/24/2005	282.5	3.73E-01	3.51E-02	4.01E-03	3.33E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/31/2005	272.3	3.73E-01	1.49E-02	3.11E-03	3.46E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/7/2005	280.7	3.73E-01	2.34E-02	3.51E-03	3.40E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2005	281	3.73E-01	2.48E-02	3.56E-03	3.38E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/21/2005	271.8	3.73E-01	1.32E-02	3.16E-03	3.80E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/28/2005	262.6	3.73E-01	1.60E-02	3.46E-03	4.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/5/2005	272.2	3.88E-01	2.51E-02	3.59E-03	3.44E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/12/2005	259.9	3.88E-01	2.60E-02	3.72E-03	3.51E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/19/2005	251.7	3.88E-01	2.07E-02	3.49E-03	3.52E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/26/2005	272.1	3.88E-01	3.66E-02	4.03E-03	3.18E-03
205	0.6 MI SSE - SPOIL POND	1/3/2005	279.9	3.73E-01	2.54E-02	3.68E-03	3.60E-03
205	0.6 MI SSE - SPOIL POND	1/10/2005	288	3.73E-01	1.15E-02	3.00E-03	3.73E-03
205	0.6 MI SSE - SPOIL POND	1/17/2005	280.7	3.73E-01	1.70E-02	3.21E-03	3.47E-03
205	0.6 MI SSE - SPOIL POND	1/24/2005	274.3	3.73E-01	2.95E-02	3.75E-03	3.15E-03
205	0.6 MI SSE - SPOIL POND	1/31/2005	264.2	3.73E-01	2.33E-02	3.62E-03	3.51E-03
205	0.6 MI SSE - SPOIL POND	2/7/2005	272.6	3.73E-01	1.98E-02	3.50E-03	3.76E-03
205	0.6 MI SSE - SPOIL POND	2/14/2005	279.1	3.73E-01	2.21E-02	3.50E-03	3.54E-03
205	0.6 MI SSE - SPOIL POND	2/21/2005	282.4	3.73E-01	2.90E-02	3.73E-03	3.29E-03
205	0.6 MI SSE - SPOIL POND	2/28/2005	279.2	3.73E-01	1.17E-02	2.83E-03	3.27E-03
205	0.6 MI SSE - SPOIL POND	3/7/2005	281.1	3.73E-01	1.67E-02	3.21E-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	3/14/2005	278.7	3.73E-01	1.27E-02	3.03E-03	3.59E-03
205	0.6 MI SSE - SPOIL POND	3/21/2005	278.9	3.73E-01	1.83E-02	3.22E-03	3.30E-03
205	0.6 MI SSE - SPOIL POND	3/28/2005	284.2	3.62E-01	1.41E-02	3.07E-03	3.49E-03
205	0.6 MI SSE - SPOIL POND	4/4/2005	281.2	3.73E-01	1.03E-02	2.87E-03	3.58E-03
205	0.6 MI SSE - SPOIL POND	4/11/2005	285.8	3.73E-01	2.17E-02	3.46E-03	3.54E-03
205	0.6 MI SSE - SPOIL POND	4/18/2005	283.9	3.62E-01	1.55E-02	3.14E-03	3.47E-03
205	0.6 MI SSE - SPOIL POND	4/25/2005	282.6	3.73E-01	2.41E-02	3.55E-03	3.45E-03
205	0.6 MI SSE - SPOIL POND	5/2/2005	286	3.73E-01	1.82E-02	3.22E-03	3.39E-03
205	0.6 MI SSE - SPOIL POND	5/9/2005	286	3.73E-01	1.75E-02	3.24E-03	3.54E-03
205	0.6 MI SSE - SPOIL POND	5/16/2005	294.2	3.73E-01	1.96E-02	3.30E-03	3.46E-03
205	0.6 MI SSE - SPOIL POND	5/23/2005	277.7	3.73E-01	1.71E-02	3.31E-03	3.67E-03
205	0.6 MI SSE - SPOIL POND	5/30/2005	287.4	3.73E-01	1.18E-02	2.85E-03	3.37E-03
205	0.6 MI SSE - SPOIL POND	6/6/2005	290.3	3.73E-01	1.84E-02	3.03E-03	2.88E-03
205	0.6 MI SSE - SPOIL POND	6/13/2005	294.6	3.73E-01	1.39E-02	2.82E-03	3.03E-03
205	0.6 MI SSE - SPOIL POND	6/20/2005	286.8	3.73E-01	1.24E-02	2.83E-03	3.24E-03
205	0.6 MI SSE - SPOIL POND	6/27/2005	293.1	3.73E-01	1.43E-02	3.00E-03	3.41E-03
205	0.6 MI SSE - SPOIL POND	7/4/2005	286.9	3.73E-01	9.34E-03	2.64E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	7/11/2005	296.9	3.73E-01	1.37E-02	2.80E-03	3.03E-03
205	0.6 MI SSE - SPOIL POND	7/18/2005	286.2	3.73E-01	1.06E-02	2.75E-03	3.29E-03
205	0.6 MI SSE - SPOIL POND	7/25/2005	294.5	3.73E-01	1.04E-02	2.68E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	8/1/2005	286.7	3.73E-01	2.63E-02	3.65E-03	3.49E-03
205	0.6 MI SSE - SPOIL POND	8/8/2005	289.8	3.73E-01	2.25E-02	3.50E-03	3.58E-03
205	0.6 MI SSE - SPOIL POND	8/15/2005	292.8	3.73E-01	1.28E-02	2.83E-03	3.22E-03
205	0.6 MI SSE - SPOIL POND	8/22/2005	285	3.73E-01	2.30E-02	3.41E-03	3.23E-03
205	0.6 MI SSE - SPOIL POND	8/29/2005	291.5	3.73E-01	1.23E-02	2.81E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	9/5/2005	287.8	3.73E-01	1.62E-02	3.05E-03	3.25E-03
205	0.6 MI SSE - SPOIL POND	9/12/2005	283.6	3.73E-01	2.03E-02	3.20E-03	3.00E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
205	0.6 MI SSE - SPOIL POND	9/19/2005	186.1	3.73E-01	3.47E-02	5.25E-03	5.10E-03
205	0.6 MI SSE - SPOIL POND	9/26/2005	272	3.73E-01	2.05E-02	3.38E-03	3.36E-03
205	0.6 MI SSE - SPOIL POND	10/3/2005	271.4	3.73E-01	2.11E-02	3.33E-03	3.10E-03
205	0.6 MI SSE - SPOIL POND	10/10/2005	266.3	3.73E-01	5.71E-03	2.73E-03	3.83E-03
205	0.6 MI SSE - SPOIL POND	10/17/2005	263.4	3.73E-01	1.30E-02	2.96E-03	3.28E-03
205	0.6 MI SSE - SPOIL POND	10/24/2005	267.5	3.73E-01	2.72E-02	3.79E-03	3.52E-03
205	0.6 MI SSE - SPOIL POND	10/31/2005	261	3.73E-01	1.21E-02	3.05E-03	3.61E-03
205	0.6 MI SSE - SPOIL POND	11/7/2005	306.6	3.73E-01	2.30E-02	3.29E-03	3.11E-03
205	0.6 MI SSE - SPOIL POND	11/14/2005	296.1	3.73E-01	2.98E-02	3.67E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	11/21/2005	299.7	3.73E-01	1.31E-02	2.93E-03	3.44E-03
205	0.6 MI SSE - SPOIL POND	11/28/2005	282.8	3.73E-01	1.49E-02	3.21E-03	3.78E-03
205	0.6 MI SSE - SPOIL POND	12/5/2005	288.4	3.88E-01	2.25E-02	3.34E-03	3.25E-03
205	0.6 MI SSE - SPOIL POND	12/12/2005	290.1	3.88E-01	2.44E-02	3.38E-03	3.14E-03
205	0.6 MI SSE - SPOIL POND	12/19/2005	280.1	3.88E-01	1.91E-02	3.17E-03	3.16E-03
205	0.6 MI SSE - SPOIL POND	12/26/2005	309.7	3.88E-01	3.22E-02	3.54E-03	2.79E-03

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>LLD</i>
200 1.0 MI WSW - VISITORS CENTER	1/3/2005	281.4	<LLD	3.28E-02
200 1.0 MI WSW - VISITORS CENTER	1/10/2005	283.0	<LLD	4.15E-02
200 1.0 MI WSW - VISITORS CENTER	1/17/2005	277.3	<LLD	1.87E-02
200 1.0 MI WSW - VISITORS CENTER	1/24/2005	279.7	<LLD	2.94E-02
200 1.0 MI WSW - VISITORS CENTER	1/31/2005	270.3	<LLD	2.29E-02
200 1.0 MI WSW - VISITORS CENTER	2/7/2005	280.3	<LLD	2.76E-02
200 1.0 MI WSW - VISITORS CENTER	2/14/2005	281.9	<LLD	2.62E-02
200 1.0 MI WSW - VISITORS CENTER	2/21/2005	284.4	<LLD	2.56E-02
200 1.0 MI WSW - VISITORS CENTER	2/28/2005	281.4	<LLD	3.42E-02
200 1.0 MI WSW - VISITORS CENTER	3/7/2005	285.0	<LLD	2.24E-02
200 1.0 MI WSW - VISITORS CENTER	3/14/2005	271.7	<LLD	2.39E-02
200 1.0 MI WSW - VISITORS CENTER	3/21/2005	283.1	<LLD	2.61E-02
200 1.0 MI WSW - VISITORS CENTER	3/28/2005	288.6	<LLD	2.42E-02
200 1.0 MI WSW - VISITORS CENTER	4/4/2005	283.8	<LLD	2.41E-02
200 1.0 MI WSW - VISITORS CENTER	4/11/2005	289.0	<LLD	2.56E-02
200 1.0 MI WSW - VISITORS CENTER	4/18/2005	287.7	<LLD	2.81E-02
200 1.0 MI WSW - VISITORS CENTER	4/25/2005	285.4	<LLD	2.11E-02
200 1.0 MI WSW - VISITORS CENTER	5/2/2005	289.6	<LLD	2.24E-02
200 1.0 MI WSW - VISITORS CENTER	5/9/2005	289.7	<LLD	2.82E-02
200 1.0 MI WSW - VISITORS CENTER	5/16/2005	298.3	<LLD	2.39E-02
200 1.0 MI WSW - VISITORS CENTER	5/23/2005	279.7	<LLD	2.03E-02
200 1.0 MI WSW - VISITORS CENTER	5/30/2005	289.7	<LLD	2.91E-02
200 1.0 MI WSW - VISITORS CENTER	6/6/2005	293.6	<LLD	1.65E-02
200 1.0 MI WSW - VISITORS CENTER	6/13/2005	297.1	<LLD	2.03E-02
200 1.0 MI WSW - VISITORS CENTER	6/20/2005	289.9	<LLD	2.68E-02
200 1.0 MI WSW - VISITORS CENTER	6/27/2005	297.1	<LLD	2.15E-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	7/4/2005	290.5	<LLD	1.50E-02
200 1.0 MI WSW - VISITORS CENTER	7/11/2005	298.4	<LLD	1.89E-02
200 1.0 MI WSW - VISITORS CENTER	7/18/2005	288.6	<LLD	1.45E-02
200 1.0 MI WSW - VISITORS CENTER	7/25/2005	297.9	<LLD	1.99E-02
200 1.0 MI WSW - VISITORS CENTER	8/1/2005	289.6	<LLD	1.67E-02
200 1.0 MI WSW - VISITORS CENTER	8/8/2005	294.8	<LLD	1.88E-02
200 1.0 MI WSW - VISITORS CENTER	8/15/2005	296.8	<LLD	4.05E-02
200 1.0 MI WSW - VISITORS CENTER	8/22/2005	288.2	<LLD	1.64E-02
200 1.0 MI WSW - VISITORS CENTER	8/29/2005	298.0	<LLD	2.05E-02
200 1.0 MI WSW - VISITORS CENTER	9/5/2005	292.8	<LLD	1.65E-02
200 1.0 MI WSW - VISITORS CENTER	9/12/2005	291.8	<LLD	1.90E-02
200 1.0 MI WSW - VISITORS CENTER	9/19/2005	294.9	<LLD	1.36E-02
200 1.0 MI WSW - VISITORS CENTER	9/26/2005	294.0	<LLD	2.70E-02
200 1.0 MI WSW - VISITORS CENTER	10/3/2005	293.3	<LLD	3.24E-02
200 1.0 MI WSW - VISITORS CENTER	10/10/2005	290.3	<LLD	1.97E-02
200 1.0 MI WSW - VISITORS CENTER	10/17/2005	289.3	<LLD	2.04E-02
200 1.0 MI WSW - VISITORS CENTER	10/24/2005	288.7	<LLD	1.47E-02
200 1.0 MI WSW - VISITORS CENTER	10/31/2005	285.8	<LLD	1.65E-02
200 1.0 MI WSW - VISITORS CENTER	11/7/2005	291.6	<LLD	1.56E-02
200 1.0 MI WSW - VISITORS CENTER	11/14/2005	281.8	<LLD	1.60E-02
200 1.0 MI WSW - VISITORS CENTER	11/21/2005	287.5	<LLD	1.30E-02
200 1.0 MI WSW - VISITORS CENTER	11/28/2005	286.8	<LLD	2.74E-02
200 1.0 MI WSW - VISITORS CENTER	12/5/2005	285.2	<LLD	1.73E-02
200 1.0 MI WSW - VISITORS CENTER	12/12/2005	285.8	<LLD	1.78E-02
200 1.0 MI WSW - VISITORS CENTER	12/19/2005	276.7	<LLD	1.84E-02
200 1.0 MI WSW - VISITORS CENTER	12/26/2005	302.1	<LLD	2.00E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>LLD</i>
201 0.5 MI NE - PMAC	1/3/2005	271.7	<LLD	2.39E-02
201 0.5 MI NE - PMAC	1/10/2005	272.8	<LLD	3.17E-02
201 0.5 MI NE - PMAC	1/17/2005	270.4	<LLD	5.14E-02
201 0.5 MI NE - PMAC	1/24/2005	271.4	<LLD	3.35E-02
201 0.5 MI NE - PMAC	1/31/2005	270.5	<LLD	3.82E-02
201 0.5 MI NE - PMAC	2/7/2005	282.2	<LLD	3.58E-02
201 0.5 MI NE - PMAC	2/14/2005	273.1	<LLD	3.32E-02
201 0.5 MI NE - PMAC	2/21/2005	275.7	<LLD	3.69E-02
201 0.5 MI NE - PMAC	2/28/2005	277.8	<LLD	3.04E-02
201 0.5 MI NE - PMAC	3/7/2005	272.0	<LLD	4.39E-02
201 0.5 MI NE - PMAC	3/14/2005	273.2	<LLD	3.94E-02
201 0.5 MI NE - PMAC	3/21/2005	274.2	<LLD	3.73E-02
201 0.5 MI NE - PMAC	3/28/2005	279.0	<LLD	3.26E-02
201 0.5 MI NE - PMAC	4/4/2005	278.9	<LLD	3.02E-02
201 0.5 MI NE - PMAC	4/11/2005	277.6	<LLD	3.99E-02
201 0.5 MI NE - PMAC	4/18/2005	277.8	<LLD	3.89E-02
201 0.5 MI NE - PMAC	4/25/2005	276.4	<LLD	2.66E-02
201 0.5 MI NE - PMAC	5/2/2005	280.8	<LLD	3.72E-02
201 0.5 MI NE - PMAC	5/9/2005	281.4	<LLD	2.64E-02
201 0.5 MI NE - PMAC	5/16/2005	287.3	<LLD	3.79E-02
201 0.5 MI NE - PMAC	5/23/2005	275.9	<LLD	2.35E-02
201 0.5 MI NE - PMAC	5/30/2005	279.8	<LLD	3.53E-02
201 0.5 MI NE - PMAC	6/6/2005	280.7	<LLD	2.33E-02
201 0.5 MI NE - PMAC	6/13/2005	286.9	<LLD	1.93E-02
201 0.5 MI NE - PMAC	6/20/2005	283.4	<LLD	1.62E-02
201 0.5 MI NE - PMAC	6/27/2005	284.2	<LLD	2.56E-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	7/4/2005	282.6	<LLD	2.57E-02
201 0.5 MI NE - PMAC	7/11/2005	287.9	<LLD	2.71E-02
201 0.5 MI NE - PMAC	7/18/2005	282.7	<LLD	3.04E-02
201 0.5 MI NE - PMAC	7/25/2005	286.0	<LLD	2.44E-02
201 0.5 MI NE - PMAC	8/1/2005	282.5	<LLD	3.66E-02
201 0.5 MI NE - PMAC	8/8/2005	281.6	<LLD	2.32E-02
201 0.5 MI NE - PMAC	8/15/2005	285.2	<LLD	2.16E-02
201 0.5 MI NE - PMAC	8/22/2005	283.5	<LLD	2.96E-02
201 0.5 MI NE - PMAC	8/29/2005	283.8	<LLD	2.67E-02
201 0.5 MI NE - PMAC	9/5/2005	282.8	<LLD	2.76E-02
201 0.5 MI NE - PMAC	9/12/2005	281.2	<LLD	2.08E-02
201 0.5 MI NE - PMAC	9/19/2005	281.7	<LLD	2.55E-02
201 0.5 MI NE - PMAC	9/26/2005	282.0	<LLD	1.48E-02
201 0.5 MI NE - PMAC	10/3/2005	280.1	<LLD	1.66E-02
201 0.5 MI NE - PMAC	10/10/2005	282.4	<LLD	2.64E-02
201 0.5 MI NE - PMAC	10/17/2005	275.6	<LLD	2.33E-02
201 0.5 MI NE - PMAC	10/24/2005	280.9	<LLD	3.32E-02
201 0.5 MI NE - PMAC	10/31/2005	274.3	<LLD	2.33E-02
201 0.5 MI NE - PMAC	11/7/2005	276.0	<LLD	2.30E-02
201 0.5 MI NE - PMAC	11/14/2005	274.5	<LLD	2.39E-02
201 0.5 MI NE - PMAC	11/21/2005	272.6	<LLD	1.98E-02
201 0.5 MI NE - PMAC	11/28/2005	268.8	<LLD	2.52E-02
201 0.5 MI NE - PMAC	12/5/2005	273.2	<LLD	2.99E-02
201 0.5 MI NE - PMAC	12/12/2005	273.6	<LLD	1.71E-02
201 0.5 MI NE - PMAC	12/19/2005	264.9	<LLD	2.58E-02
201 0.5 MI NE - PMAC	12/26/2005	241.5	<LLD	3.22E-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	1/3/2005	281.3	<LLD	5.09E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/10/2005	281.9	<LLD	5.43E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/17/2005	276.8	<LLD	2.52E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/24/2005	278.3	<LLD	2.53E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/31/2005	269.0	<LLD	1.88E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/7/2005	278.5	<LLD	2.96E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	276.9	<LLD	2.77E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/21/2005	279.0	<LLD	2.31E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/28/2005	256.8	<LLD	4.36E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/7/2005	278.2	<LLD	1.66E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/14/2005	274.3	<LLD	2.59E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/21/2005	276.9	<LLD	2.83E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/28/2005	281.6	<LLD	2.89E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/4/2005	276.9	<LLD	3.65E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/11/2005	283.8	<LLD	2.57E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/18/2005	282.8	<LLD	3.10E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/25/2005	277.9	<LLD	1.88E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/2/2005	282.9	<LLD	2.42E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/9/2005	284.2	<LLD	1.93E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/16/2005	291.6	<LLD	2.52E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/23/2005	275.2	<LLD	2.69E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/30/2005	283.8	<LLD	2.89E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/6/2005	287.4	<LLD	3.38E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/13/2005	292.6	<LLD	2.15E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/20/2005	283.5	<LLD	3.07E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/27/2005	291.5	<LLD	2.14E-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	7/4/2005	286.2	<LLD	1.71E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/11/2005	295.5	<LLD	2.19E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/18/2005	284.4	<LLD	2.22E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/25/2005	294.0	<LLD	1.76E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/1/2005	287.3	<LLD	1.70E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/8/2005	291.1	<LLD	1.49E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/15/2005	293.1	<LLD	2.36E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/22/2005	288.2	<LLD	1.79E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/29/2005	294.3	<LLD	1.80E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/5/2005	290.5	<LLD	2.12E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/12/2005	287.2	<LLD	1.41E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/19/2005	291.0	<LLD	1.94E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/26/2005	291.0	<LLD	2.57E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/3/2005	289.3	<LLD	2.93E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/10/2005	286.5	<LLD	2.87E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/17/2005	286.2	<LLD	2.09E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/24/2005	285.2	<LLD	2.09E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/31/2005	282.7	<LLD	1.53E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/7/2005	287.8	<LLD	1.28E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/14/2005	287.0	<LLD	1.59E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/21/2005	282.9	<LLD	1.71E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/28/2005	281.0	<LLD	2.04E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/5/2005	281.7	<LLD	1.66E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/12/2005	281.5	<LLD	3.85E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/19/2005	273.3	<LLD	2.04E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/26/2005	297.2	<LLD	1.88E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>LLD</i>
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/3/2005	282.9	<LLD	4.18E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/10/2005	284.9	<LLD	3.50E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/17/2005	279.5	<LLD	2.55E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/24/2005	283.0	<LLD	4.06E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/31/2005	273.6	<LLD	4.31E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/7/2005	283.2	<LLD	4.66E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2005	272.6	<LLD	2.65E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/21/2005	273.3	<LLD	4.25E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/28/2005	271.9	<LLD	2.84E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/7/2005	271.4	<LLD	3.18E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/14/2005	269.1	<LLD	2.72E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/21/2005	269.9	<LLD	3.56E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/28/2005	276.4	<LLD	5.01E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/4/2005	273.5	<LLD	4.01E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/11/2005	277.4	<LLD	2.51E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/18/2005	274.4	<LLD	3.38E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/25/2005	271.4	<LLD	2.65E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/2/2005	273.0	<LLD	2.66E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/9/2005	274.2	<LLD	2.76E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	284.5	<LLD	2.46E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/23/2005	269.5	<LLD	2.65E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/30/2005	278.4	<LLD	4.64E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/6/2005	280.3	<LLD	1.60E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/13/2005	287.2	<LLD	1.79E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/20/2005	278.4	<LLD	2.93E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/27/2005	285.7	<LLD	3.59E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	LLD
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/4/2005	279.1	<LLD	3.53E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/11/2005	288.7	<LLD	2.93E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/18/2005	278.5	<LLD	2.66E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/25/2005	287.2	<LLD	3.35E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/1/2005	279.1	<LLD	3.03E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/8/2005	282.0	<LLD	3.82E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2005	282.7	<LLD	2.27E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/22/2005	279.0	<LLD	2.56E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/29/2005	279.8	<LLD	3.32E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/5/2005	280.8	<LLD	3.73E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/12/2005	278.5	<LLD	3.52E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/19/2005	281.5	<LLD	1.34E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/26/2005	280.2	<LLD	2.01E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/3/2005	279.3	<LLD	3.12E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/10/2005	276.2	<LLD	2.15E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/17/2005	274.7	<LLD	3.43E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/24/2005	273.1	<LLD	2.31E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/31/2005	268.3	<LLD	3.47E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/7/2005	271.5	<LLD	3.12E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2005	260.7	<LLD	3.04E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/21/2005	277.0	<LLD	3.24E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/28/2005	271.6	<LLD	3.68E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	12/5/2005	275.3	<LLD	3.37E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	12/12/2005	271.4	<LLD	1.75E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	12/19/2005	263.9	<LLD	3.00E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	12/26/2005	287.4	<LLD	3.23E-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)	1/3/2005	324.4	<LLD	2.15E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	1/10/2005	313.2	<LLD	1.73E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	1/17/2005	281.7	<LLD	2.17E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	1/24/2005	271.3	<LLD	3.02E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	1/31/2005	273.9	<LLD	2.33E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/7/2005	272.4	<LLD	2.25E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2005	273.5	<LLD	3.54E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/21/2005	276.3	<LLD	2.94E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/28/2005	268.4	<LLD	2.22E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	3/7/2005	251.3	<LLD	2.56E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	3/14/2005	265.9	<LLD	2.64E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	3/21/2005	270.6	<LLD	2.73E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	3/28/2005	280.8	<LLD	2.77E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/4/2005	282.4	<LLD	2.61E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/11/2005	283.5	<LLD	3.01E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/18/2005	276.1	<LLD	3.97E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/25/2005	168.8	<LLD	3.95E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/2/2005	273.2	<LLD	3.71E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/9/2005	285.1	<LLD	2.91E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2005	285.1	<LLD	3.51E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/23/2005	287.8	<LLD	2.98E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/30/2005	284.3	<LLD	4.39E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/6/2005	285.2	<LLD	2.41E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/13/2005	287.9	<LLD	2.18E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/20/2005	290.3	<LLD	1.90E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/27/2005	287.0	<LLD	1.85E-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)	7/4/2005	286.6	<LLD	1.76E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/11/2005	289.6	<LLD	1.87E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/18/2005	288.1	<LLD	1.75E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/25/2005	288.5	<LLD	2.28E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/1/2005	291.9	<LLD	1.78E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/8/2005	288.5	<LLD	1.77E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2005	289.1	<LLD	3.69E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/22/2005	290.5	<LLD	1.54E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/29/2005	288.6	<LLD	1.71E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/5/2005	290.4	<LLD	1.75E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/12/2005	283.9	<LLD	2.23E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/19/2005	286.7	<LLD	2.72E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/26/2005	289.1	<LLD	2.17E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/3/2005	286.6	<LLD	1.56E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/10/2005	284.3	<LLD	2.16E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/17/2005	283.2	<LLD	2.13E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/24/2005	282.5	<LLD	1.53E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/31/2005	272.3	<LLD	1.88E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/7/2005	280.7	<LLD	1.90E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2005	281.0	<LLD	2.17E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/21/2005	271.8	<LLD	1.82E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/28/2005	262.6	<LLD	1.96E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/5/2005	272.2	<LLD	2.12E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/12/2005	259.9	<LLD	1.69E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/19/2005	251.7	<LLD	2.33E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/26/2005	272.1	<LLD	1.97E-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	1/3/2005	279.9	<LLD	3.97E-02
205 0.6 MI SSE - SPOIL POND	1/10/2005	288.0	<LLD	4.25E-02
205 0.6 MI SSE - SPOIL POND	1/17/2005	280.7	<LLD	5.04E-02
205 0.6 MI SSE - SPOIL POND	1/24/2005	274.3	<LLD	2.95E-02
205 0.6 MI SSE - SPOIL POND	1/31/2005	264.2	<LLD	2.38E-02
205 0.6 MI SSE - SPOIL POND	2/7/2005	272.6	<LLD	3.65E-02
205 0.6 MI SSE - SPOIL POND	2/14/2005	279.1	<LLD	2.91E-02
205 0.6 MI SSE - SPOIL POND	2/21/2005	282.4	<LLD	3.35E-02
205 0.6 MI SSE - SPOIL POND	2/28/2005	279.2	<LLD	5.10E-02
205 0.6 MI SSE - SPOIL POND	3/7/2005	281.1	<LLD	3.94E-02
205 0.6 MI SSE - SPOIL POND	3/14/2005	278.7	<LLD	3.65E-02
205 0.6 MI SSE - SPOIL POND	3/21/2005	278.9	<LLD	3.18E-02
205 0.6 MI SSE - SPOIL POND	3/28/2005	284.2	<LLD	3.95E-02
205 0.6 MI SSE - SPOIL POND	4/4/2005	281.2	<LLD	4.47E-02
205 0.6 MI SSE - SPOIL POND	4/11/2005	285.8	<LLD	2.53E-02
205 0.6 MI SSE - SPOIL POND	4/18/2005	283.9	<LLD	2.55E-02
205 0.6 MI SSE - SPOIL POND	4/25/2005	282.6	<LLD	3.16E-02
205 0.6 MI SSE - SPOIL POND	5/2/2005	286.0	<LLD	2.61E-02
205 0.6 MI SSE - SPOIL POND	5/9/2005	286.0	<LLD	2.21E-02
205 0.6 MI SSE - SPOIL POND	5/16/2005	294.2	<LLD	2.74E-02
205 0.6 MI SSE - SPOIL POND	5/23/2005	277.7	<LLD	2.46E-02
205 0.6 MI SSE - SPOIL POND	5/30/2005	287.4	<LLD	2.36E-02
205 0.6 MI SSE - SPOIL POND	6/6/2005	290.3	<LLD	3.35E-02
205 0.6 MI SSE - SPOIL POND	6/13/2005	294.6	<LLD	1.75E-02
205 0.6 MI SSE - SPOIL POND	6/20/2005	286.8	<LLD	3.32E-02
205 0.6 MI SSE - SPOIL POND	6/27/2005	293.1	<LLD	2.49E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	LLD
205 0.6 MI SSE - SPOIL POND	7/4/2005	286.9	<LLD	2.52E-02
205 0.6 MI SSE - SPOIL POND	7/11/2005	296.9	<LLD	2.92E-02
205 0.6 MI SSE - SPOIL POND	7/18/2005	286.2	<LLD	3.15E-02
205 0.6 MI SSE - SPOIL POND	7/25/2005	294.5	<LLD	2.60E-02
205 0.6 MI SSE - SPOIL POND	8/1/2005	286.7	<LLD	3.28E-02
205 0.6 MI SSE - SPOIL POND	8/8/2005	289.8	<LLD	2.87E-02
205 0.6 MI SSE - SPOIL POND	8/15/2005	292.8	<LLD	2.47E-02
205 0.6 MI SSE - SPOIL POND	8/22/2005	285.0	<LLD	3.34E-02
205 0.6 MI SSE - SPOIL POND	8/29/2005	291.5	<LLD	2.36E-02
205 0.6 MI SSE - SPOIL POND	9/5/2005	287.8	<LLD	2.72E-02
205 0.6 MI SSE - SPOIL POND	9/12/2005	283.6	<LLD	1.99E-02
205 0.6 MI SSE - SPOIL POND	9/19/2005	186.1	<LLD	4.39E-02
205 0.6 MI SSE - SPOIL POND	9/26/2005	272.0	<LLD	3.31E-02
205 0.6 MI SSE - SPOIL POND	10/3/2005	271.4	<LLD	3.04E-02
205 0.6 MI SSE - SPOIL POND	10/10/2005	266.3	<LLD	3.18E-02
205 0.6 MI SSE - SPOIL POND	10/17/2005	263.4	<LLD	2.52E-02
205 0.6 MI SSE - SPOIL POND	10/24/2005	267.5	<LLD	3.15E-02
205 0.6 MI SSE - SPOIL POND	10/31/2005	261.0	<LLD	2.25E-02
205 0.6 MI SSE - SPOIL POND	11/7/2005	306.6	<LLD	2.00E-02
205 0.6 MI SSE - SPOIL POND	11/14/2005	296.1	<LLD	2.39E-02
205 0.6 MI SSE - SPOIL POND	11/21/2005	299.7	<LLD	2.66E-02
205 0.6 MI SSE - SPOIL POND	11/28/2005	282.8	<LLD	2.18E-02
205 0.6 MI SSE - SPOIL POND	12/5/2005	288.4	<LLD	2.23E-02
205 0.6 MI SSE - SPOIL POND	12/12/2005	290.1	<LLD	3.07E-02
205 0.6 MI SSE - SPOIL POND	12/19/2005	280.1	<LLD	2.59E-02
205 0.6 MI SSE - SPOIL POND	12/26/2005	309.7	<LLD	1.84E-02

BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>LLD</i>
400 0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2005	0.005	4.18E-01	<LLD	3.63E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2005	0.005	4.24E-01	<LLD	3.09E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2005	0.005	4.21E-01	<LLD	3.00E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2005	0.005	4.23E-01	<LLD	3.12E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/16/2005	0.005	4.19E-01	<LLD	3.20E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2005	0.005	4.20E-01	<LLD	3.02E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2005	0.005	4.24E-01	<LLD	3.05E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2005	0.005	4.14E-01	<LLD	3.13E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2005	0.005	4.19E-01	<LLD	3.07E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2005	0.005	4.20E-01	<LLD	3.09E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2005	0.005	4.21E-01	<LLD	3.07E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2005	0.005	4.17E-01	<LLD	3.10E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2005	0.005	4.19E-01	<LLD	3.62E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2005	0.005	4.22E-01	<LLD	3.11E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2005	0.005	4.11E-01	3.22E+02	3.13E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2005	0.005	4.20E-01	<LLD	3.14E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/16/2005	0.005	4.20E-01	<LLD	3.19E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2005	0.005	4.20E-01	<LLD	3.02E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2005	0.005	4.22E-01	<LLD	3.06E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2005	0.005	4.18E-01	<LLD	3.10E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2005	0.005	4.19E-01	<LLD	3.07E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2005	0.005	4.21E-01	<LLD	3.08E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2005	0.005	4.12E-01	<LLD	3.14E+02
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2005	0.005	4.18E-01	<LLD	3.10E+02

2005 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

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
200 1.0 MI WSW - VISITORS CENTER	2/14/2005	3648.1	BE-7	9.04E-02	1.34E-02
200 1.0 MI WSW - VISITORS CENTER	2/14/2005	3648.1	K-40	1.92E-02	9.85E-03
200 1.0 MI WSW - VISITORS CENTER	2/14/2005	3648.1	BI-214	1.81E-03	1.62E-03
200 1.0 MI WSW - VISITORS CENTER	2/14/2005	3648.1	PB-214	3.33E-03	1.42E-03
200 1.0 MI WSW - VISITORS CENTER	5/16/2005	3770.6	BE-7	1.15E-01	2.31E-02
200 1.0 MI WSW - VISITORS CENTER	8/15/2005	3816.3	PB-214	3.10E-03	1.28E-03
200 1.0 MI WSW - VISITORS CENTER	8/15/2005	3816.3	PB-212	1.13E-03	6.99E-04
200 1.0 MI WSW - VISITORS CENTER	8/15/2005	3816.3	BE-7	9.77E-02	1.47E-02
200 1.0 MI WSW - VISITORS CENTER	11/14/2005	3744.9	BE-7	1.27E-01	2.02E-02
201 0.5 MI NE - PMAC	2/14/2005	3564	BE-7	1.06E-01	1.76E-02
201 0.5 MI NE - PMAC	5/16/2005	3651.1	BE-7	1.24E-01	1.61E-02
201 0.5 MI NE - PMAC	5/16/2005	3651.1	K-40	1.55E-02	1.14E-02
201 0.5 MI NE - PMAC	5/16/2005	3651.1	PB-212	1.33E-03	7.69E-04
201 0.5 MI NE - PMAC	5/16/2005	3651.1	PB-214	3.77E-03	1.39E-03
201 0.5 MI NE - PMAC	5/16/2005	3651.1	BI-214	2.03E-03	1.40E-03
201 0.5 MI NE - PMAC	8/15/2005	3683.5	BE-7	1.05E-01	1.58E-02
201 0.5 MI NE - PMAC	11/14/2005	3538.5	BE-7	1.23E-01	1.96E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	BI-212	6.01E-03	4.43E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	BI-214	2.03E-03	1.10E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	PB-212	1.41E-03	7.61E-04
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	TL-208	9.40E-04	5.50E-04
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	BE-7	9.32E-02	1.22E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/14/2005	3589.5	PB-214	1.63E-03	1.20E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/16/2005	3694.1	PB-214	4.57E-03	1.64E-03

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/16/2005	3694.1	BE-7	1.16E-01	1.80E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/16/2005	3694.1	BI-214	4.63E-03	1.83E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/15/2005	3773.8	BE-7	8.94E-02	1.64E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/14/2005	3702.4	BE-7	1.12E-01	1.59E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/14/2005	3702.4	K-40	1.93E-02	1.03E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/14/2005	3702.4	PB-212	1.33E-03	6.84E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/14/2005	3591.7	BE-7	9.72E-02	1.90E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	3607.9	PB-214	3.86E-03	1.48E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	3607.9	K-40	1.36E-02	1.15E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	3607.9	BI-214	2.62E-03	1.39E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/16/2005	3607.9	BE-7	1.20E-01	1.45E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2005	3657.2	BE-7	1.04E-01	1.52E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2005	3657.2	PB-212	1.06E-03	6.17E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/15/2005	3657.2	K-40	1.68E-02	1.15E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2005	3550.3	PB-214	2.72E-03	1.04E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2005	3550.3	BI-214	1.92E-03	1.32E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/14/2005	3550.3	BE-7	1.21E-01	1.45E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2005	3623.7	PB-212	1.31E-03	8.17E-04
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/14/2005	3623.7	BE-7	1.02E-01	1.40E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/16/2005	3576.7	BE-7	1.20E-01	2.36E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/15/2005	3751.5	BE-7	9.97E-02	1.69E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2005	3560.9	BE-7	1.26E-01	1.81E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2005	3560.9	K-40	1.80E-02	1.04E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/14/2005	3560.9	PB-212	1.12E-03	7.21E-04

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
205 0.6 MI SSE - SPOIL POND	2/14/2005	3623.3	BE-7	9.69E-02	1.80E-02
205 0.6 MI SSE - SPOIL POND	5/16/2005	3729.6	BE-7	1.22E-01	1.60E-02
205 0.6 MI SSE - SPOIL POND	5/16/2005	3729.6	K-40	1.31E-02	8.63E-03
205 0.6 MI SSE - SPOIL POND	5/16/2005	3729.6	PB-214	2.26E-03	1.24E-03
205 0.6 MI SSE - SPOIL POND	5/16/2005	3729.6	BI-214	2.49E-03	1.39E-03
205 0.6 MI SSE - SPOIL POND	5/16/2005	3729.6	PB-212	1.25E-03	7.44E-04
205 0.6 MI SSE - SPOIL POND	8/15/2005	3639.8	BE-7	1.13E-01	1.78E-02
205 0.6 MI SSE - SPOIL POND	11/14/2005	3683	BE-7	1.14E-01	1.77E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

Sample Point	Sample Date	Media	Quantity	Isotope	Activity	2 Sigma Error	
800	0.7 MI NE - INTAKE CANAL	1/1/2005	WAX MYRTLE	490.5	BE-7	1.31E+00	2.40E-01
800	0.7 MI NE - INTAKE CANAL	1/1/2005	WAX MYRTLE	490.5	K-40	1.33E+00	3.85E-01
800	0.7 MI NE - INTAKE CANAL	1/1/2005	WAX MYRTLE	490.5	BI-214	1.66E-01	5.21E-02
800	0.7 MI NE - INTAKE CANAL	1/1/2005	WAX MYRTLE	490.5	PB-214	6.58E-02	4.58E-02
800	0.7 MI NE - INTAKE CANAL	2/1/2005	WAX MYRTLE	455.9	K-40	1.79E+00	3.72E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2005	WAX MYRTLE	455.9	BE-7	1.20E+00	2.04E-01
800	0.7 MI NE - INTAKE CANAL	2/1/2005	WAX MYRTLE	455.9	BI-214	4.01E-02	3.27E-02
800	0.7 MI NE - INTAKE CANAL	3/1/2005	WAX MYRTLE	387.7	K-40	1.38E+00	4.67E-01
800	0.7 MI NE - INTAKE CANAL	3/1/2005	WAX MYRTLE	387.7	BE-7	1.45E+00	2.19E-01
800	0.7 MI NE - INTAKE CANAL	4/1/2005	WAX MYRTLE	507.2	BE-7	1.04E+00	1.74E-01
800	0.7 MI NE - INTAKE CANAL	4/1/2005	WAX MYRTLE	507.2	BI-214	8.60E-02	3.31E-02
800	0.7 MI NE - INTAKE CANAL	4/1/2005	WAX MYRTLE	507.2	PB-214	5.57E-02	3.44E-02
800	0.7 MI NE - INTAKE CANAL	4/1/2005	WAX MYRTLE	507.2	K-40	1.81E+00	3.36E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2005	CHERRY	588.3	BE-7	5.06E-01	2.04E-01
800	0.7 MI NE - INTAKE CANAL	5/1/2005	CHERRY	588.3	K-40	2.59E+00	4.16E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2005	WAX MYRTLE	560.6	K-40	1.78E+00	3.50E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2005	WAX MYRTLE	560.6	BE-7	5.26E-01	1.28E-01
800	0.7 MI NE - INTAKE CANAL	6/1/2005	WAX MYRTLE	560.6	RA-226	2.52E-01	2.31E-01
800	0.7 MI NE - INTAKE CANAL	7/1/2005	WAX MYRTLE	504	K-40	1.85E+00	3.42E-01
800	0.7 MI NE - INTAKE CANAL	7/1/2005	WAX MYRTLE	504	BE-7	4.38E-01	1.60E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

Sample Point	Sample Date	Media	Quantity	Isotope	Activity	2 Sigma Error
800	0.7 MI NE - INTAKE CANAL	CHERRY	456.4	BE-7	8.81E-01	1.72E-01
800	0.7 MI NE - INTAKE CANAL	CHERRY	456.4	PB-214	3.40E-02	2.96E-02
800	0.7 MI NE - INTAKE CANAL	CHERRY	456.4	K-40	1.99E+00	4.24E-01
800	0.7 MI NE - INTAKE CANAL	CHERRY	456.4	BI-214	3.92E-02	3.36E-02
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	394.3	BE-7	1.16E+00	2.16E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	394.3	K-40	2.16E+00	4.20E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	507.8	K-40	1.95E+00	3.39E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	507.8	BE-7	1.10E+00	1.73E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	487.4	K-40	8.35E-01	4.07E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	487.4	BE-7	8.63E-01	2.41E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	PB-212	3.90E-02	2.97E-02
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	PB-214	1.18E-01	5.71E-02
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	BE-7	2.53E+00	3.29E-01
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	BI-214	2.30E-01	6.03E-02
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	TL-208	2.42E-02	2.08E-02
800	0.7 MI NE - INTAKE CANAL	WAX MYRTLE	331.7	K-40	2.14E+00	4.55E-01
801	0.8 MI SW - DISCHARGE CANAL	WAX MYRTLE	506.7	PB-214	5.55E-02	3.70E-02
801	0.8 MI SW - DISCHARGE CANAL	WAX MYRTLE	506.7	BI-214	4.61E-02	3.21E-02
801	0.8 MI SW - DISCHARGE CANAL	WAX MYRTLE	506.7	K-40	1.65E+00	3.25E-01
801	0.8 MI SW - DISCHARGE CANAL	WAX MYRTLE	506.7	BE-7	8.42E-01	1.84E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
801	0.8 MI SW - DISCHARGE CANAL	2/1/2005	WAX MYRTLE	459.9	K-40	1.63E+00	4.63E-01
801	0.8 MI SW - DISCHARGE CANAL	2/1/2005	WAX MYRTLE	459.9	BE-7	5.80E-01	2.38E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2005	WAX MYRTLE	456.4	K-40	1.85E+00	4.55E-01
801	0.8 MI SW - DISCHARGE CANAL	3/1/2005	WAX MYRTLE	456.4	BE-7	1.17E+00	2.40E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2005	WAX MYRTLE	446.1	BI-214	2.07E-01	6.10E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2005	WAX MYRTLE	446.1	PB-214	1.32E-01	6.26E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2005	WAX MYRTLE	446.1	BE-7	1.70E+00	2.93E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2005	WAX MYRTLE	446.1	K-40	3.56E+00	4.77E-01
801	0.8 MI SW - DISCHARGE CANAL	5/1/2005	CHERRY	635	K-40	2.96E+00	3.51E-01
801	0.8 MI SW - DISCHARGE CANAL	5/1/2005	CHERRY	635	BE-7	2.90E-01	1.38E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2005	WAX MYRTLE	548.4	K-40	1.56E+00	4.11E-01
801	0.8 MI SW - DISCHARGE CANAL	6/1/2005	WAX MYRTLE	548.4	BE-7	6.37E-01	2.30E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2005	WAX MYRTLE	434.4	K-40	1.95E+00	5.02E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2005	WAX MYRTLE	434.4	BI-214	7.66E-02	5.57E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2005	WAX MYRTLE	434.4	BE-7	1.18E+00	2.44E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2005	CHERRY	516.9	BE-7	4.89E-01	1.91E-01
801	0.8 MI SW - DISCHARGE CANAL	8/1/2005	CHERRY	516.9	K-40	4.05E+00	5.05E-01
801	0.8 MI SW - DISCHARGE CANAL	9/1/2005	CHERRY	433.5	BE-7	4.13E-01	2.07E-01
801	0.8 MI SW - DISCHARGE CANAL	9/1/2005	CHERRY	433.5	K-40	3.43E+00	5.53E-01
801	0.8 MI SW - DISCHARGE CANAL	10/3/2005	WAX MYRTLE	421.2	BE-7	2.05E+00	3.17E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
801	0.8 MI SW - DISCHARGE CANAL	10/3/2005	WAX MYRTLE	421.2	K-40	1.55E+00	4.40E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2005	WAX MYRTLE	449.8	K-40	1.79E+00	5.05E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2005	WAX MYRTLE	449.8	BI-214	2.07E-01	6.67E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2005	WAX MYRTLE	449.8	BE-7	1.02E+00	2.53E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2005	WAX MYRTLE	449.8	PB-214	1.40E-01	4.82E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2005	WAX MYRTLE	323.9	PB-214	7.98E-02	6.52E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2005	WAX MYRTLE	323.9	BE-7	1.87E+00	3.44E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2005	WAX MYRTLE	323.9	BI-214	1.30E-01	6.02E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2005	WAX MYRTLE	323.9	K-40	1.51E+00	5.91E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/1/2005	WAX MYRTLE	469.2	K-40	1.86E+00	4.37E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/1/2005	WAX MYRTLE	469.2	PB-214	6.89E-02	4.92E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/1/2005	WAX MYRTLE	469.2	BE-7	1.84E+00	2.96E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/1/2005	WAX MYRTLE	469.2	BI-214	8.74E-02	7.54E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2005	WAX MYRTLE	485	BE-7	4.81E-01	2.09E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2005	WAX MYRTLE	485	PB-214	3.21E-02	2.76E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2005	WAX MYRTLE	485	BI-214	4.81E-02	3.74E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2005	WAX MYRTLE	485	K-40	1.47E+00	3.36E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	BE-7	4.81E-01	1.56E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	K-40	1.99E+00	3.62E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	TL-208	2.50E-02	2.28E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

Sample Point	Sample Date	Media	Quantity	Isotope	Activity	2 Sigma Error	
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	BI-214	6.00E-02	4.93E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	AC-228	1.20E-01	5.02E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/1/2005	WAX MYRTLE	513.9	PB-214	6.18E-02	3.47E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2005	WAX MYRTLE	482.1	BI-214	1.41E-01	4.28E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2005	WAX MYRTLE	482.1	PB-212	3.37E-02	2.50E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2005	WAX MYRTLE	482.1	PB-214	8.64E-02	4.36E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2005	WAX MYRTLE	482.1	K-40	1.89E+00	3.30E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2005	WAX MYRTLE	482.1	BE-7	2.05E+00	2.25E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2005	CHERRY	710.8	BE-7	4.18E-01	1.60E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2005	CHERRY	710.8	K-40	2.67E+00	3.53E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2005	WAX MYRTLE	553.9	BE-7	3.21E-01	1.32E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/1/2005	WAX MYRTLE	553.9	K-40	1.69E+00	3.09E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	BE-7	1.24E+00	2.22E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	K-40	2.04E+00	3.68E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	BI-214	4.00E-02	3.37E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	PB-214	4.53E-02	3.04E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	RA-226	7.38E-01	3.75E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2005	WAX MYRTLE	440.7	CS-137	3.66E-02	1.45E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2005	CHERRY	778	BI-214	2.99E-02	2.15E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2005	CHERRY	778	BE-7	3.14E-01	9.63E-02

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	CHERRY	778	K-40	2.69E+00	2.92E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	CHERRY	512.2	BE-7	3.65E-01	1.20E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	CHERRY	512.2	K-40	3.71E+00	4.24E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	524	K-40	1.45E+00	3.76E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	524	BE-7	2.24E+00	2.68E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	497.6	K-40	1.19E+00	3.18E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	497.6	PB-214	4.60E-02	3.09E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	497.6	BI-214	1.14E-01	4.18E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	497.6	BE-7	1.58E+00	2.11E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	331.6	BI-214	7.03E-02	4.90E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	331.6	BE-7	1.41E+00	2.63E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	WAX MYRTLE	331.6	K-40	1.35E+00	4.21E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	472.5	BE-7	9.51E-01	1.86E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	472.5	K-40	2.44E+00	3.60E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	472.5	RA-226	3.94E-01	3.29E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	457.7	BE-7	1.19E+00	2.46E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	457.7	K-40	6.94E-01	4.12E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	485.2	PB-212	4.78E-02	3.17E-02
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	485.2	BE-7	1.48E+00	2.59E-01
803	0.6 MI SSE - SPOIL POND	WAX MYRTLE	485.2	K-40	1.23E+00	3.83E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
803	0.6 MI SSE - SPOIL POND	4/1/2005	WAX MYRTLE	469.4	BE-7	1.45E+00	2.42E-01
803	0.6 MI SSE - SPOIL POND	4/1/2005	WAX MYRTLE	469.4	K-40	2.46E+00	4.48E-01
803	0.6 MI SSE - SPOIL POND	4/1/2005	WAX MYRTLE	469.4	TL-208	3.99E-02	2.25E-02
803	0.6 MI SSE - SPOIL POND	4/1/2005	WAX MYRTLE	469.4	PB-214	2.19E-01	5.86E-02
803	0.6 MI SSE - SPOIL POND	4/1/2005	WAX MYRTLE	469.4	BI-214	2.50E-01	6.19E-02
803	0.6 MI SSE - SPOIL POND	5/1/2005	CHERRY	761.2	BE-7	3.42E-01	9.98E-02
803	0.6 MI SSE - SPOIL POND	5/1/2005	CHERRY	761.2	K-40	2.65E+00	2.94E-01
803	0.6 MI SSE - SPOIL POND	6/1/2005	WAX MYRTLE	633.2	BE-7	6.36E-01	1.65E-01
803	0.6 MI SSE - SPOIL POND	6/1/2005	WAX MYRTLE	633.2	K-40	1.96E+00	3.69E-01
803	0.6 MI SSE - SPOIL POND	6/1/2005	WAX MYRTLE	633.2	RA-226	5.56E-01	2.87E-01
803	0.6 MI SSE - SPOIL POND	7/1/2005	WAX MYRTLE	473.7	BE-7	6.84E-01	2.36E-01
803	0.6 MI SSE - SPOIL POND	7/1/2005	WAX MYRTLE	473.7	K-40	1.26E+00	4.11E-01
803	0.6 MI SSE - SPOIL POND	8/1/2005	CHERRY	515.7	BI-214	5.80E-02	4.34E-02
803	0.6 MI SSE - SPOIL POND	8/1/2005	CHERRY	515.7	K-40	3.22E+00	4.96E-01
803	0.6 MI SSE - SPOIL POND	8/1/2005	CHERRY	515.7	BE-7	5.96E-01	2.31E-01
803	0.6 MI SSE - SPOIL POND	9/1/2005	CHERRY	417.8	BE-7	8.31E-01	2.49E-01
803	0.6 MI SSE - SPOIL POND	9/1/2005	CHERRY	417.8	K-40	3.84E+00	6.03E-01
803	0.6 MI SSE - SPOIL POND	10/3/2005	WAX MYRTLE	498.4	BE-7	8.97E-01	2.03E-01
803	0.6 MI SSE - SPOIL POND	10/3/2005	WAX MYRTLE	498.4	K-40	3.02E+00	5.00E-01
803	0.6 MI SSE - SPOIL POND	11/1/2005	WAX MYRTLE	468.2	BE-7	1.59E+00	3.03E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

Sample Point	Sample Date	Media	Quantity	Isotope	Activity	2 Sigma Error	
803	0.6 MI SSE - SPOIL POND	11/1/2005	WAX MYRTLE	468.2	K-40	1.43E+00	4.07E-01
803	0.6 MI SSE - SPOIL POND	11/1/2005	WAX MYRTLE	468.2	PB-214	1.02E-01	4.91E-02
803	0.6 MI SSE - SPOIL POND	12/1/2005	WAX MYRTLE	352.5	BE-7	2.34E+00	4.00E-01
803	0.6 MI SSE - SPOIL POND	12/1/2005	WAX MYRTLE	352.5	BI-212	9.96E-02	6.11E-02
803	0.6 MI SSE - SPOIL POND	12/1/2005	WAX MYRTLE	352.5	PB-214	7.60E-02	6.06E-02
803	0.6 MI SSE - SPOIL POND	12/1/2005	WAX MYRTLE	352.5	K-40	1.20E+00	5.13E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/1/2005	WAX MYRTLE	482.1	PB-214	5.32E-02	4.64E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/1/2005	WAX MYRTLE	482.1	PB-212	3.66E-02	2.58E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/1/2005	WAX MYRTLE	482.1	TL-208	2.01E-02	1.83E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/1/2005	WAX MYRTLE	482.1	K-40	1.18E+00	3.57E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/1/2005	WAX MYRTLE	482.1	BE-7	6.84E-01	2.13E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	BI-214	2.95E-01	5.15E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	BE-7	1.00E+00	2.01E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	PB-212	9.49E-02	2.39E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	PB-214	1.63E-01	4.22E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	K-40	8.31E-01	3.08E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2005	WAX MYRTLE	463.5	TL-208	2.58E-02	1.63E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2005	WAX MYRTLE	486.6	PB-214	8.04E-02	3.89E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2005	WAX MYRTLE	486.6	BI-214	1.45E-01	5.66E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2005	WAX MYRTLE	486.6	K-40	2.24E+00	3.90E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/1/2005	WAX MYRTLE	486.6	BE-7	8.29E-01	2.64E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2005	WAX MYRTLE	484.3	BE-7	8.29E-01	1.58E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2005	WAX MYRTLE	484.3	K-40	1.81E+00	3.71E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2005	WAX MYRTLE	484.3	BI-214	5.46E-02	3.80E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2005	CHERRY	735.2	K-40	2.75E+00	3.83E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2005	CHERRY	735.2	BE-7	2.69E-01	1.09E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2005	WAX MYRTLE	602	K-40	1.61E+00	3.61E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2005	WAX MYRTLE	602	PB-214	4.73E-02	3.43E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/1/2005	WAX MYRTLE	602	BE-7	1.50E-01	1.11E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2005	WAX MYRTLE	467.8	BE-7	5.01E-01	1.65E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2005	WAX MYRTLE	467.8	K-40	1.35E+00	3.04E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2005	WAX MYRTLE	467.8	CS-137	3.32E-02	1.78E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2005	CHERRY	532.9	BE-7	3.33E-01	1.23E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2005	CHERRY	532.9	K-40	2.70E+00	3.85E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2005	CHERRY	421	K-40	2.98E+00	5.61E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/1/2005	CHERRY	421	BE-7	5.99E-01	2.37E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2005	WAX MYRTLE	535.8	K-40	1.86E+00	3.14E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/3/2005	WAX MYRTLE	535.8	BE-7	4.00E-01	1.32E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2005	WAX MYRTLE	500.4	BE-7	1.09E+00	1.86E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2005	WAX MYRTLE	500.4	K-40	1.58E+00	3.56E-01

BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2005	WAX MYRTLE	500.4	BI-214	6.54E-02	3.34E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2005	WAX MYRTLE	500.4	PB-214	5.80E-02	3.56E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2005	WAX MYRTLE	360.9	BE-7	3.04E+00	3.84E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2005	WAX MYRTLE	360.9	K-40	9.47E-01	4.72E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2005	WAX MYRTLE	360.9	BI-214	1.21E-01	6.40E-02

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Fish and Invertebrates

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/24/2005	537.1	BI-214	8.08E-02	5.38E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/24/2005	537.1	PB-214	9.82E-02	5.87E-02
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/24/2005	537.1	K-40	2.60E+00	7.86E-01
700	5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/19/2005	462.6	K-40	3.71E+00	6.27E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/24/2005	368.5	K-40	1.63E+00	7.26E-01
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/24/2005	368.5	BI-214	6.72E-02	5.58E-02
701	5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/19/2005	423.7	K-40	2.97E+00	6.36E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/24/2005	559.3	K-40	1.71E+00	6.95E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/19/2005	486.8	K-40	1.12E+00	4.48E-01
702	5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/19/2005	486.8	PB-214	5.42E-02	4.37E-02
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/24/2005	542.3	BI-214	1.44E-01	7.59E-02
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/24/2005	542.3	K-40	2.69E+00	7.40E-01
703	FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/19/2005	475.8	K-40	3.54E+00	7.57E-01
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/24/2005	409.1	K-40	2.05E+00	6.69E-01
704	BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	10/19/2005	455.7	K-40	3.23E+00	6.13E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	5/24/2005	591.3	K-40	2.43E+00	7.12E-01
705	SH/BO* - ATLANTIC OCEAN (CONTROL)	10/19/2005	459.9	K-40	1.18E+00	5.41E-01

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	AC-228	1.32E-01	7.52E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	PB-214	2.07E-01	4.87E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	BI-214	2.13E-01	4.42E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	PB-212	1.85E-01	3.26E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	BI-212	1.64E-01	1.14E-01
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/25/2005	1510.9	TL-208	5.63E-02	2.48E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	AC-228	2.02E-01	7.17E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	RA-226	6.33E-01	4.08E-01
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	PB-214	3.08E-01	6.24E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	BI-214	2.46E-01	5.40E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	PB-212	1.97E-01	3.55E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	TL-208	6.48E-02	2.85E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/24/2005	1597.5	K-40	1.24E+00	3.07E-01

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
400 0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2005	1	TL-208	3.31E+00	3.02E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2005	1	K-40	2.91E+02	5.39E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	2/15/2005	1	K-40	2.14E+02	3.80E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	3/16/2005	1	K-40	1.75E+02	4.65E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2005	1	K-40	1.54E+02	5.27E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/16/2005	1	K-40	4.21E+02	5.54E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2005	1	TL-208	3.25E+00	3.05E-01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2005	1	K-40	3.27E+02	5.37E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2005	1	K-40	2.49E+02	4.39E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2005	1	K-40	2.14E+02	4.41E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/17/2005	1	K-40	2.28E+02	4.39E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/17/2005	1	K-40	1.71E+02	4.29E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2005	1	K-40	2.26E+02	3.68E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2005	1	TL-208	4.52E+00	1.38E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	12/17/2005	1	K-40	2.41E+02	4.60E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2005	1	K-40	2.12E+02	3.75E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/15/2005	1	K-40	3.32E+02	5.67E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/16/2005	1	K-40	1.93E+02	5.12E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2005	1	K-40	1.71E+02	6.48E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/16/2005	1	K-40	2.96E+02	4.57E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/16/2005	1	PB-212	3.94E+00	2.91E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2005	1	K-40	2.17E+02	3.90E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2005	1	K-40	3.30E+02	5.46E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2005	1	K-40	3.12E+02	5.59E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/17/2005	1	K-40	3.20E+02	5.52E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2005	1	K-40	2.94E+02	5.26E+01

BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/17/2005	1	PB-212	5.49E+00	4.31E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2005	1	K-40	3.71E+02	4.28E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/17/2005	1	K-40	1.62E+02	3.64E+01

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Radiological Sampling Locations

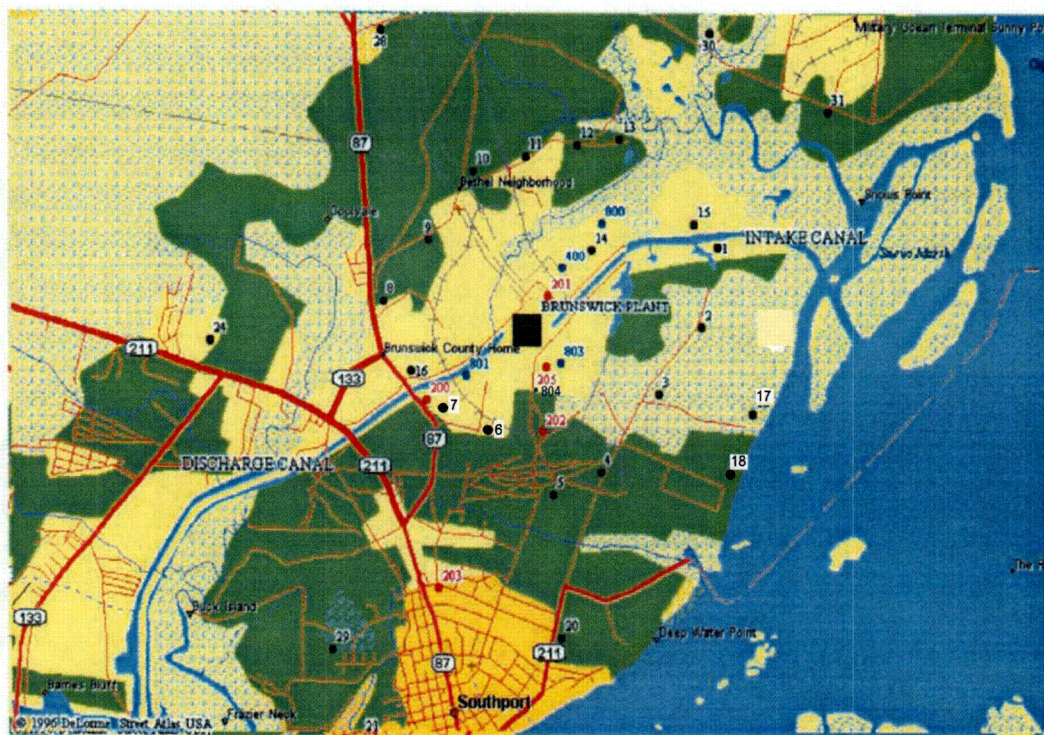


Figure 3 (nearest Plant) is an expanded view of the previous figure (Figure 2 page 6).