



# Progress Energy

**MAY 13 2009**

Serial: BSEP 09-0049

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

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2  
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62  
Radiological Environmental Operating Report for 2008

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 2008.

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

Sincerely,

Phyllis N. Mentel  
Manager - Support Services  
Brunswick Steam Electric Plant

MAT/mat

Enclosure:

Radiological Environmental Operating Report for 2008

IE25  
NRR

cc:

U. S. Nuclear Regulatory Commission, Region II  
ATTN: Mr. Luis A. Reyes, Regional Administrator  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Philip B. O'Bryan, NRC Senior Resident Inspector  
8470 River Road  
Southport, NC 28461-8869

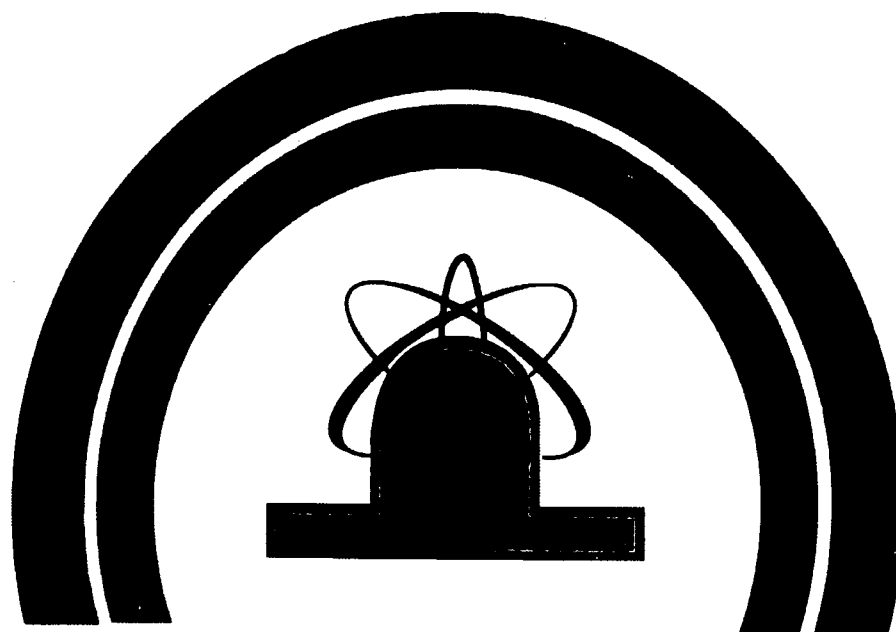
U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**  
ATTN: Mrs. Farideh E. Saba (Mail Stop OWFN 8G9A)  
11555 Rockville Pike  
Rockville, MD 20852-2738

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

## **Radiological Environmental Operating Report for 2008**

**RADIOLOGICAL  
ENVIRONMENTAL OPERATING  
REPORT  
2008**

**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, 2008**

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## EXECUTIVE SUMMARY

The Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, is operated by Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., under licenses granted by the Nuclear Regulatory Commission (NRC). BSEP Technical Specification 5.6.2 and the BSEP Offsite Dose Calculation Manual (ODCM) establish the requirements of the Radiological Environmental Monitoring Program (REMP). This report provides the results of the REMP from January 1, 2008 through December 31, 2008.

The REMP was established in 1973. Radiation and radioactivity in various environmental media have been monitored for more than 35 years, including monitoring in excess of a year prior to commencing operation. Monitoring is also provided for control locations which would not be impacted by operations of BSEP. Using the data from the control locations and the historical data collected prior to operation, analyses of data from locations which could potentially be impacted by the operations of BSEP were performed. Radiation levels show no measurable change from pre-operational radiation levels.

Monitoring results for environmental media are summarized as follows:

- Air-monitoring results are similar or less than the concentrations of radioactivity from pre-operation monitoring. These observations are also consistent with past operational data.
- Milk was unavailable due to no milk (milch) animals (goat or cow) currently identified within the environs of the plant; therefore, no exposure pathway exists.
- Terrestrial vegetation includes broadleaf vegetation from indicator and control locations. Results indicate that no gamma activity was detected in any sample (indicator or control) except for K-40 (potassium-40) and other naturally occurring gamma activity.
- Aquatic organism monitoring includes fish (free swimmers and bottom feeders), invertebrates (shellfish (SH)), and Benthic organisms (organisms that live on the bottom of the ocean (BO)). Results indicated no detectable plant - related activity.
- Surface water results indicate that some surface water samples detect the presence of tritium, which is attributed to plant operations. Refer to the Interpretations and Conclusions Section / Surface Water and Figure 15.
- 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 Eckert & Ziegler Analytics Environmental Cross-Check Program, which provides an independent assessment of the quality of laboratory results, and
- the use of known concentrations of radioactivity in test samples by the laboratory to ensure consistent quality results on an ongoing basis.

## **RADIOLOGICAL MONITORING PROGRAM GENERAL DESCRIPTION**

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

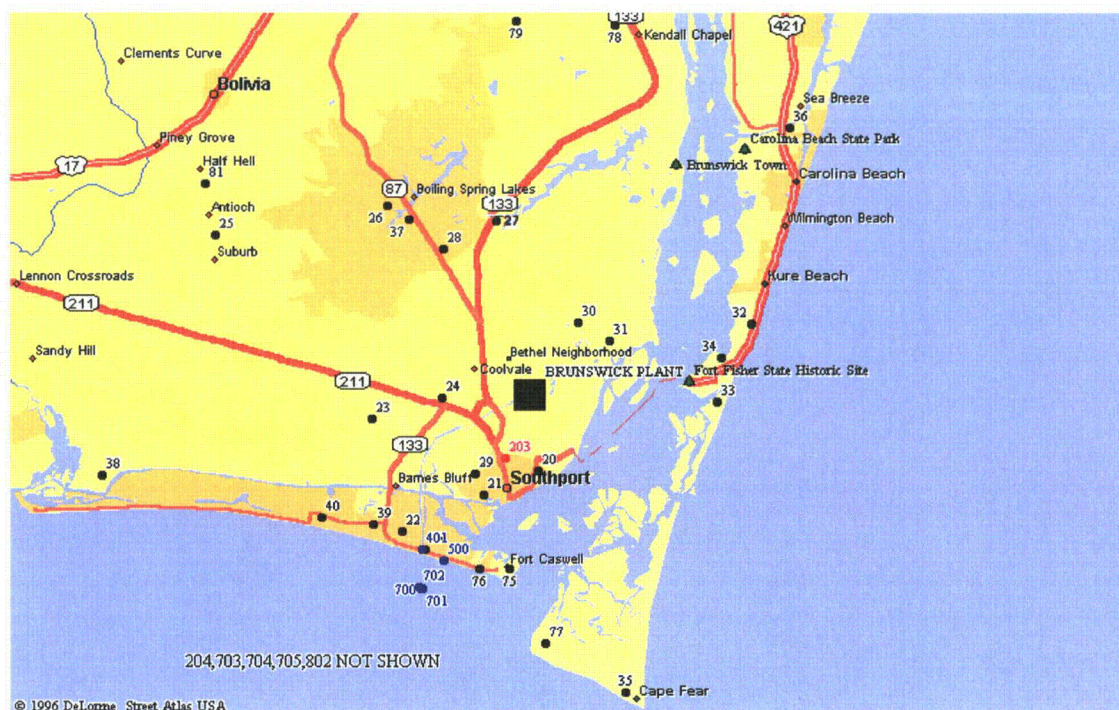
**Table 1**  
**Media Used to Assess Exposure Pathways to Man**

<b>Pathway of Exposure to Man</b>	<b>Media Sampled</b>
<b>External Dose</b>	Thermoluminescent Dosimetry (TLD) Shoreline Sediment
<b>Ingestion</b>	Broadleaf Vegetation Fish and Invertebrates Surface Water
<b>Inhalation</b>	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 9. 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

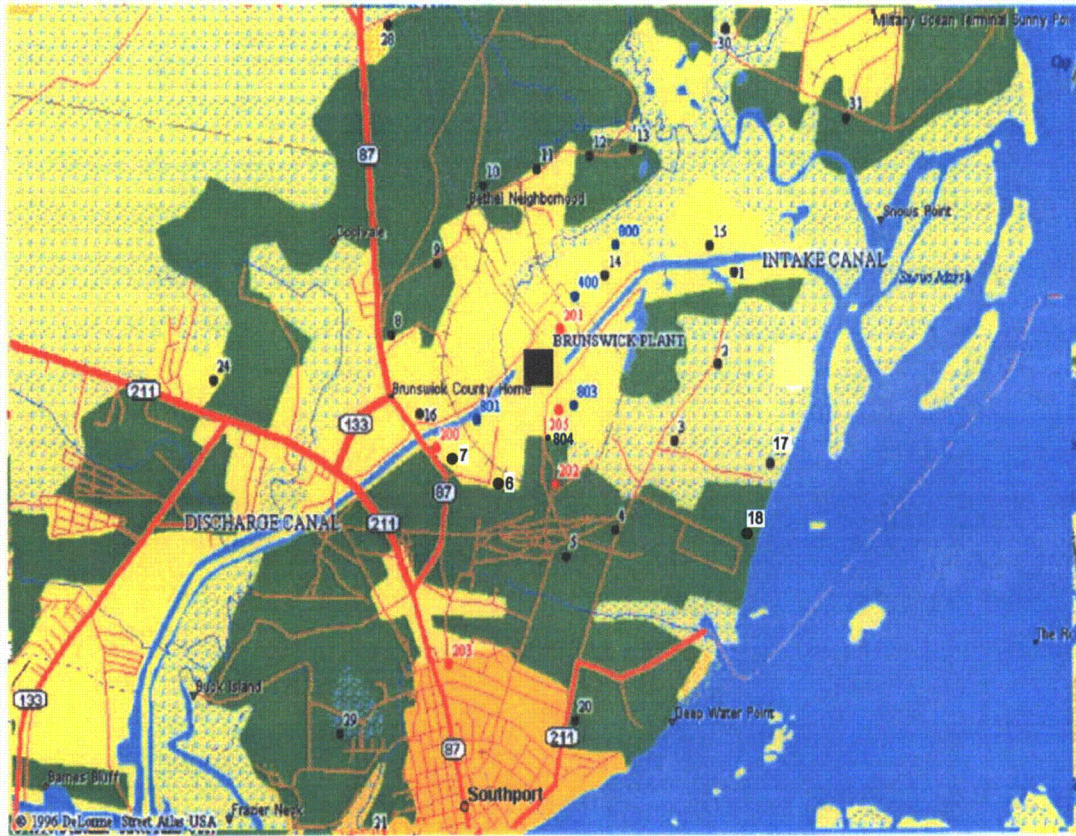
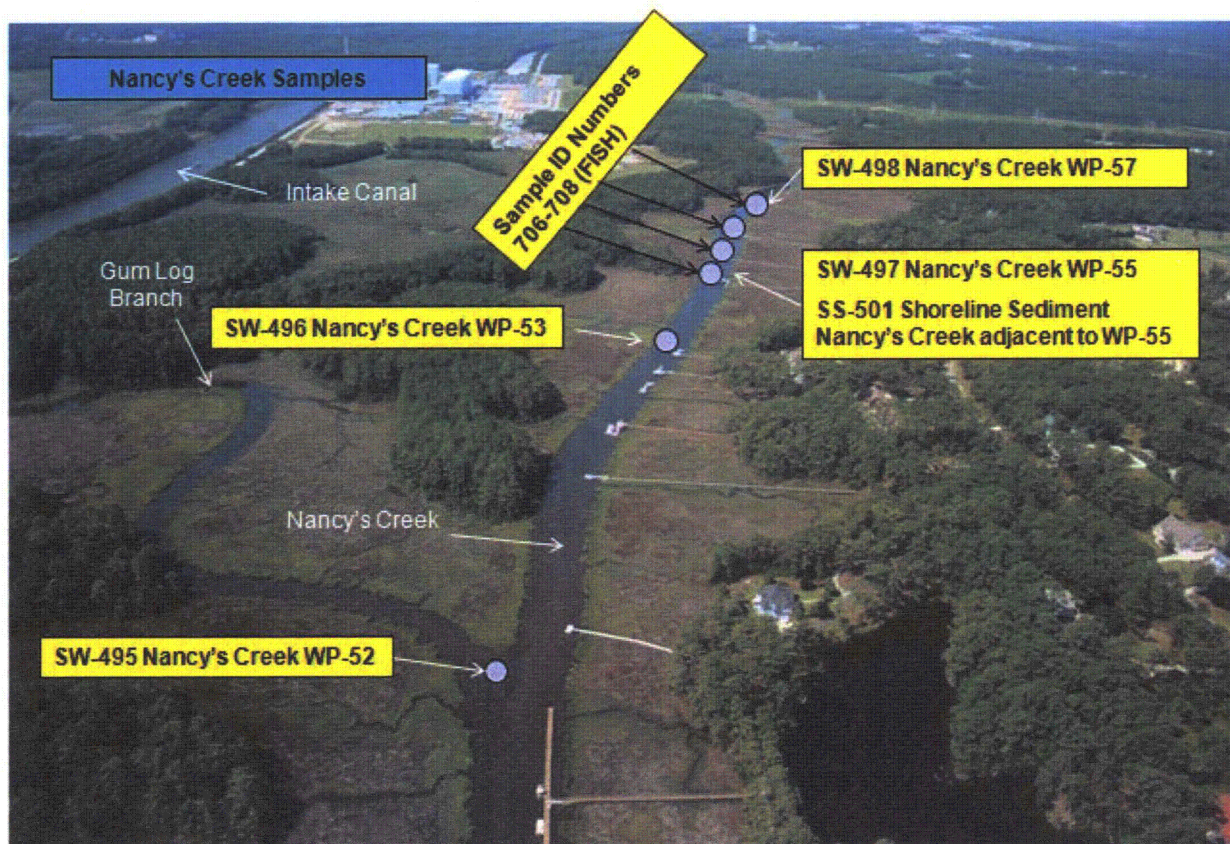


Figure 3 (nearest Plant) is an expanded view of the previous figure (Figure 2 page 6).

**Figure 4 BSEP Environmental Sampling Locations**



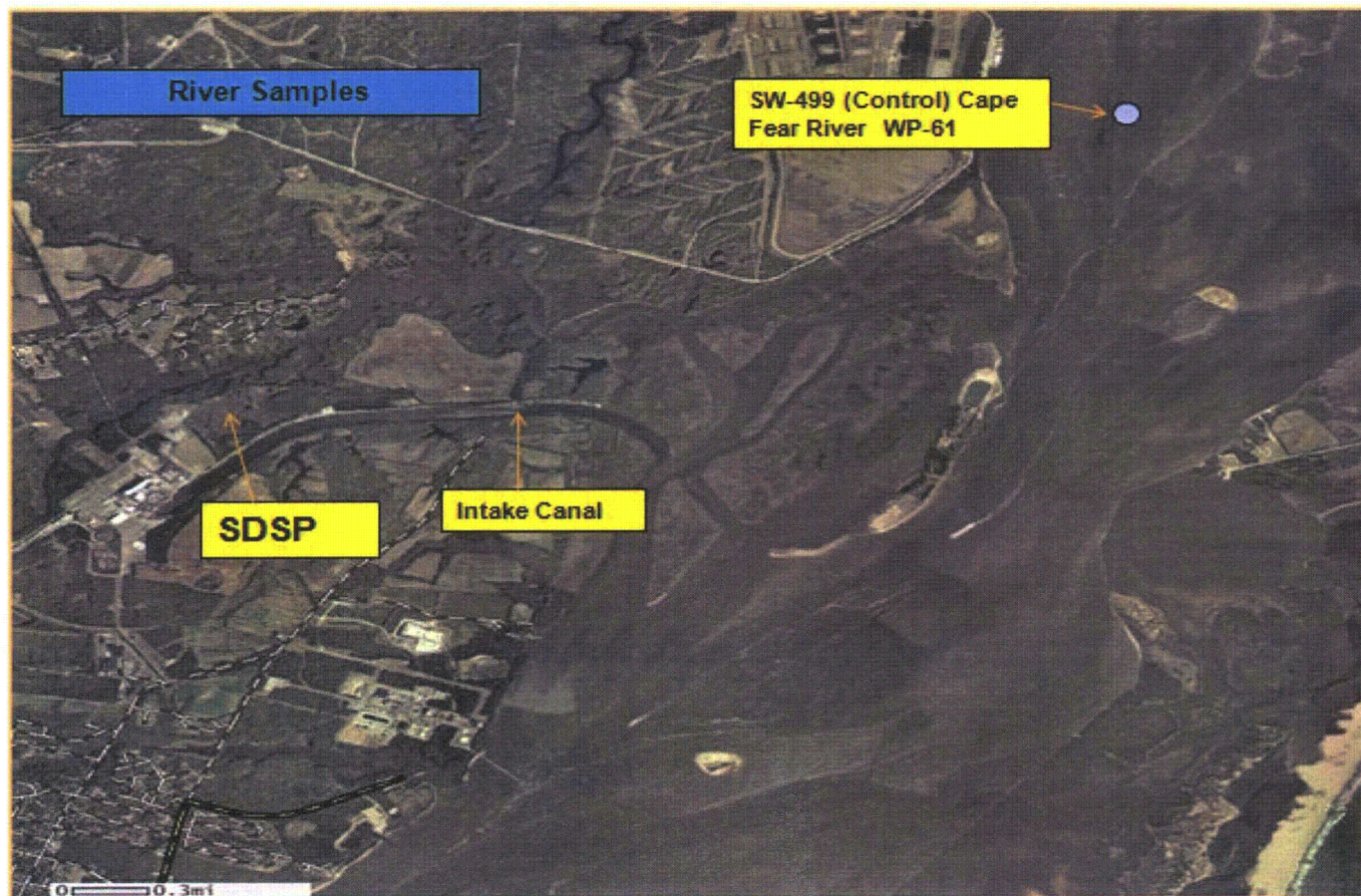
BSEP Environmental Sample Locations



**Figure 5 BSEP Environmental Sampling Locations (continued)**



**Figure 6 BSEP Environmental Sampling Locations (continued)**



**SDSP: Storm Drain Stabilization Pond**

Figure 7 BSEP Environmental Sampling Locations – Wells

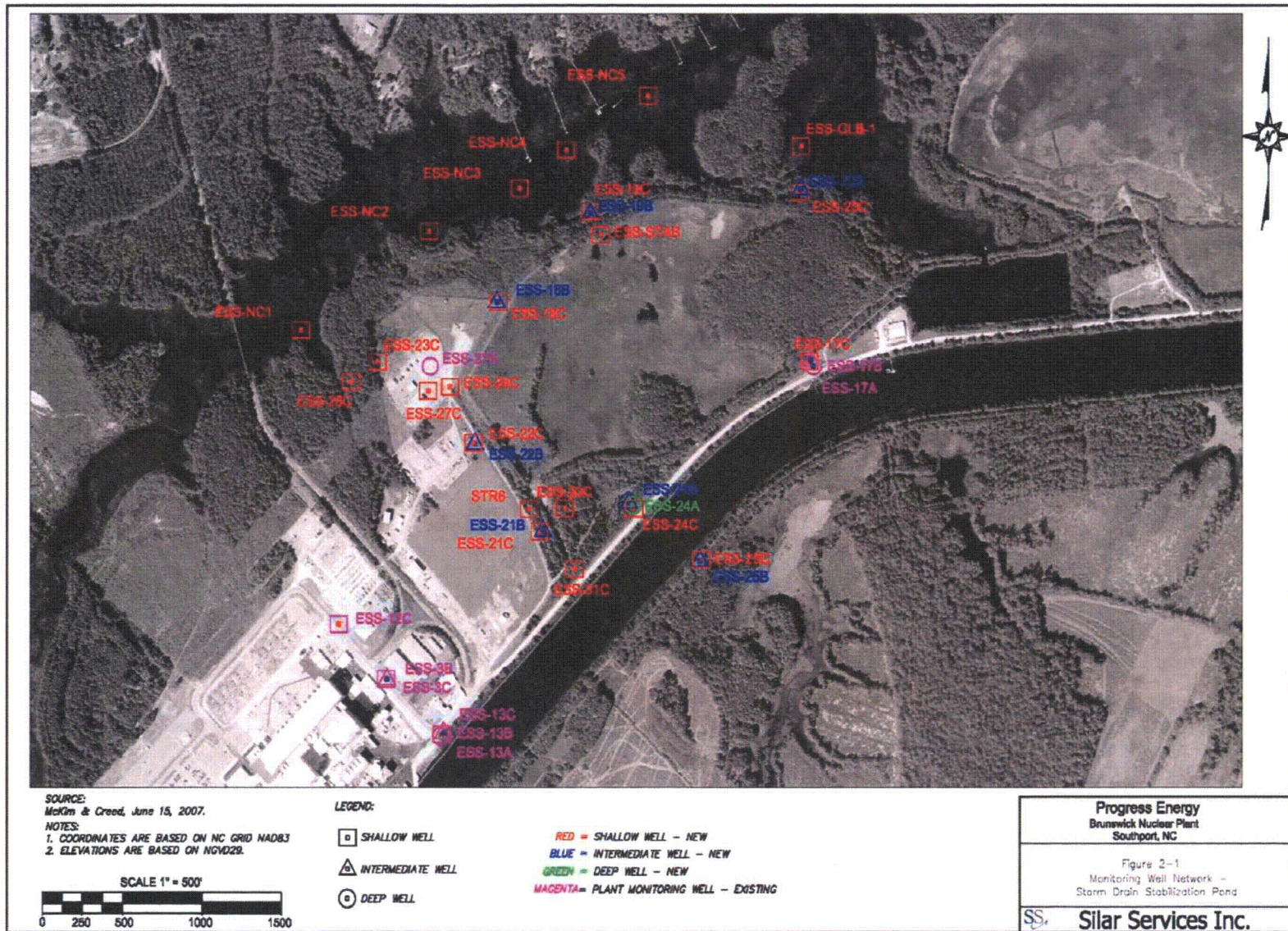
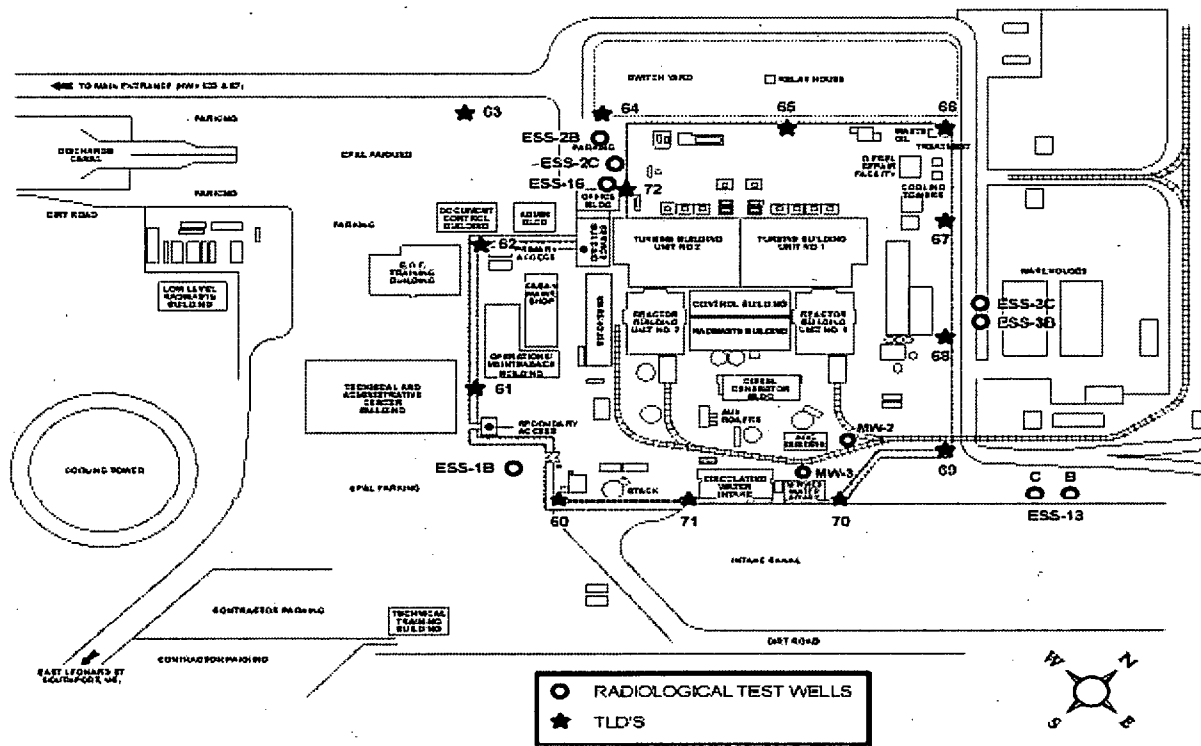


Figure 8 BSEP Environmental Sampling Locations - Wells



Figure 9 BSEP Environmental Sampling Locations – Wells (continued)



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

**Table 2**  
**Brunswick Steam Electric Plant**  
**Radiological Monitoring Sampling Locations**

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Air Cartridge (AC)	200--1.0 miles WSW Visitors Center 201--0.5 miles NE PMAC 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant* 205--0.6 miles SSE Spoil Pond	Weekly (Continuous Sampling)	(270 m <sup>3</sup> )	Iodine-131
Air Particulate (AP)	200--1.0 miles WSW Visitors Center 201--0.5 miles NE PMAC 202--1.0 miles S Substation on Construction Rd. 203--2.0 miles SSW Southport substation 204--22.4 miles NNE Sutton Plant* 205--0.6 miles SSE Spoil Pond	Weekly (Continuous Sampling)  Quarterly	(270 m <sup>3</sup> )	Gross Beta (Weekly)  Composite Gamma (Quarterly)
Fish (FI) and Inverbrates	700--5.5 miles SSW Atlantic Ocean @ discharge (free swimmers) 701--5.5 miles SSW Atlantic Ocean @ discharge (bottom feeders) 702--5.5 miles SSW Atlantic Ocean @ discharge (invertebrates) 703--Atlantic Ocean; location not specified* (free swimmers) 704--Atlantic Ocean; location not specified* (bottom feeders) 705--Atlantic Ocean; location not specified* (invertebrates) 706--Nancy's Creek; location not specified (free swimmers) 707--Nancy's Creek; location not specified (bottom feeders) 708--Nancy's Creek; location not specified (invertebrates)	Semiannual (In Season)      Annual	500 grams (wet)	Gamma (Edible portions)      Gamma Tritium (Edible portions)
Broadleaf Vegetation (BL)	800--0.7 miles NE intake canal 801--0.8 miles SW discharge canal 802--10.1 miles; location not specified* 803--0.6 miles SSE Spoil Pond 804--0.7 miles S Leonard Street plant exit adjacent to RR tracks	Monthly (As available)	360 grams (wet)	Gamma Iodine-131
Shoreline Sediment (SS)	500--5.0 miles SSW discharge; beach near OD pumps 501--Nancy's Creek, Adjacent to WP-55, Near Storm Drain Stabilization Pond	Semiannual  Annual	575 grams	Gamma
Surface Water (SW)	400--0.6 miles NE Intake Canal* 401--4.9 miles SSW discharge canal @ OD Pumps	Monthly Composite	4 liters	Gamma Tritium (Quarterly)

\* Control Stations

**Table 2 (Continued)**  
**Brunswick Steam Electric Plant**  
**Radiological Monitoring Sampling Locations**

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Surface Water (SW) (Continues)	494--Nancy's Creek – WP-106 495--Nancy's Creek – WP-52 496--Nancy's Creek – WP-53 497--Nancy's Creek – WP-55 498--Nancy Creek – WP-57 499--Cape Fear River – WP-61*	Grab Sample, Weekly Monthly	N/A	Tritium (Weekly) Gamma (Monthly)
Groundwater (GW)	402--Monitoring Well ESS-2C, 0.17 miles W 403--Monitoring Well ESS-16, 0.16 miles W 404--Monitoring Well ESS-1B, 0.17 miles SW 405--Monitoring Well ESS-2B, 0.17 miles W 406--Monitoring Well ESS-3B, 0.08 miles N 407--Monitoring Well ESS-13B, 0.06 miles ENE 408--Monitoring Well ESS-13C, 0.06 miles ENE 409--Monitoring Well ESS-17A, 0.65 miles NE 410--Monitoring Well ESS-17B, 0.65 miles NE 411--Monitoring Well ESS-17C, 0.65 miles NE 412--Monitoring Well ESS-18B, Near SDSP 413--Monitoring Well ESS-18C, Near SDSP 414--Monitoring Well ESS-19B, Near SDSP 415--Monitoring Well ESS-19C, Near SDSP 416--Monitoring Well ESS-20B, Near SDSP 417--Monitoring Well ESS-20C, Near SDSP 418--Monitoring Well ESS-21B, Near SDSP 419--Monitoring Well ESS-21C, Near SDSP 420--Monitoring Well ESS-22B, Near SDSP 421--Monitoring Well ESS-22C, Near SDSP 422--Monitoring Well ESS-23C, Near SDSP 423--Monitoring Well ESS-24A, Near SDSP 424--Monitoring Well ESS-24B, Near SDSP 425--Monitoring Well ESS-24C, Near SDSP 426--Monitoring Well ESS-25B, Near SDSP 427--Monitoring Well ESS-25C, Near SDSP 428--Monitoring Well ESS-26C, Near SDSP 429--Monitoring Well ESS-27A, Near SDSP 430--Monitoring Well ESS-27C, Near SDSP 431--Monitoring Well ESS-30C, Near SDSP 432--Monitoring Well ESS-31C, Near SDSP 433--Monitoring Well MW-2, 0.02 miles S 434--Monitoring Well MW-3, 0.03 miles S 435--Monitoring Well ESS-Nancy Creek-1, (NC-1) 436--Monitoring Well ESS-Nancy Creek-2, (NC-2) 437--Monitoring Well ESS-Nancy Creek-3, (NC-3) 438--Monitoring Well ESS-Nancy Creek-4, (NC-4) 439--Monitoring Well ESS-Nancy Creek-5, (NC-5) 440--Monitoring Well ESS-Gum Log Branch-1, (GLB-1) 447--Monitoring Well ESS-28C, Near SDSP	Grab Sample, Quarterly, Semiannual	N/A	Tritium (Quarterly) Gamma (Semiannual)

\* 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

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



## **SUMMARY OF RADIOLOGICAL MONITORING PROGRAM**

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2008 for BSEP. The program was conducted in accordance with the ODCM, and applicable procedures.

The 2008 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 1938 sample measurements were performed on 1821 collected samples from indicator and control locations from seven environmental media types during the year. No detectable radioactivity (or radioactivity that differed significantly from the corresponding control) was observed in any of the 1724 measurements performed on the 1628 indicator location samples in 2008, except for tritium in ground water and surface water samples. No gamma activity was detected in any of the ground water or surface water samples, except for K-40 and other naturally occurring gamma activity. All samples analyzed met the Lower Limit of Detection (LLD) requirements as established by ODCM Table 7.3.15-3, except for some of the I-131 in non-drinking water environmental samples (surface water) (Nuclear Condition Report [NCR] # 303063). This is due to the analytical method for gamma activity possibly producing non-conservative results for I-131 in control and indicator samples analyzed prior to October 2008.

The radiological environmental data indicates that BSEP operations in 2008 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 2008 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 2008.

**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 2008

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations <sup>(2)</sup> Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>	
Air Cartridge (pCi/m <sup>3</sup> )	I-131 312	6.2E-2	All less than LLD		All less than LLD	All less than LLD
Air Particulate (pCi/m <sup>3</sup> )	Gross Beta 312	4.2E-3	1.88E-2 (260/260) <sup>(7)</sup> 6.19E-3 – 3.33E-2	Substation on Construction Rd. 1.0 mile S	1.94E-2 (52/52) <sup>(7)</sup> 7.00E-3 – 3.06E-2	1.83E-2 (52/52) <sup>(7)</sup> 8.83E-3 – 3.09E-2
	Gamma <sup>(4)</sup> 24	See Table 6	All less than LLD		All less than LLD	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma <sup>(4)</sup> 60 <sup>(3)</sup>	See Table 6	All less than LLD		All less than LLD	All less than LLD
Fish and Invertebrates (pCi/g, wet)	Tritium 3	2.50E+2 <sup>(6)</sup>	All less than LLD		All less than LLD	No control
	Gamma <sup>(4)</sup> 15	See Table 6	All less than LLD		All less than LLD	All less than LLD
Sediments--Shoreline (pCi/g, dry)	Gamma <sup>(4)</sup> 2	See Table 6	All less than LLD		All less than LLD	No control
Surface Water (pCi/l)	Gamma <sup>(4)</sup> 114	See Table 6	All less than LLD		All less than LLD	All less than LLD
	Tritium 341	2.50E+2 <sup>(6)</sup>	3.94E+2 (69/278) <sup>(7)</sup> 2.43E+2 – 7.53E+2	Discharge Canal @ OD Pumps 4.9 miles SSW	4.85E+2 (4/12) <sup>(7)</sup> 2.66E+2 -7.53E+2	All less than LLD

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

Brunswick Steam Electric Plant  
Brunswick County, North Carolina

Docket Numbers - 50-324 and 325  
Calendar Year 2008

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations <sup>(2)</sup> Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>	
Ground Water (pCi/l)	Tritium 486	2.50E+2 <sup>(6)</sup>	1.76E+5 (217/486) <sup>(7)</sup> 2.40E+2 - 2.01E+6	Well ESS-2C 0.17 miles W	1.50E+6 (12/12) <sup>(7)</sup> 1.01E+6 - 2.01E+6	No control
	Gamma <sup>(4)</sup> 90	See Table 6	All less than LLD		All less than LLD	No control
TLD (mR per quarter) <sup>(5)</sup>	TLD Readout 179 <sup>(3)</sup>		9.89E+0 (175/176) <sup>(7)</sup> 7.00E+0 - 1.32E+1	5.3 miles SW	1.19E+1 (4/4) <sup>(7)</sup> 1.13E+1 - 1.28E+1	1.07E+1 (4/4) <sup>(7)</sup> 9.10E+0 - 1.25E+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 approximately  $2.50\text{E}+2$  pCi/L. The LLD was lowered at the request of Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc. in order to maintain comparable LLD values with the North Carolina Division of Radiation Protection (NCDRP) laboratory.
7. The numbers in parentheses [e.g., Surface Water Tritium  $3.94\text{E}+2$  (69/276) for Indicator Location Mean (Average)] indicate how many samples that specific value and column apply to in relation to the total number of samples for that column heading.

## INTERPRETATIONS AND CONCLUSIONS

### Air Monitoring

The average gross beta concentration measured in 260 air particulate (AP) samples collected at indicator stations during 2008 was  $1.88\text{E-}2$  picocuries per cubic meter ( $\text{pCi/m}^3$ ) and the average gross beta concentration measured in 52 AP samples collected at control stations during 2008 was  $1.83\text{E-}2$   $\text{pCi/m}^3$ . The preoperational (1973-1974) average concentration was  $8.2\text{E-}2$   $\text{pCi/m}^3$ , while the average activity in the recent past (2003-2007) was  $1.78\text{E-}2$   $\text{pCi/m}^3$  (Table 4). The airborne concentrations of gross beta activity in 2008 are indicative of natural background and do not indicate any abnormal activities originating from the nuclear operations at BSEP. Figures 10 through 13 depict the monthly variations of these values. The air samplers operated for a total of greater than 99% availability for the 2008 year.

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

Analyses of 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 2008.

### 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 2008, and this media was represented by indigenous vegetation samples consisting primarily of wax myrtle leaves. Forty-eight (48) samples were collected from indicator locations and 12 samples from the control location. No detectable activities relating to plant effluents were detected in this sampling media in 2008. No gamma activity was detected in any sample, except for K-40 (potassium-40) and other naturally occurring gamma activity.

### **Fish and Invertebrates**

Fish (free swimmers and bottom feeders), invertebrate (SH), and benthic organism (BO) samples are collected semiannually from two locations: (1) near the Atlantic Ocean discharge pipe at Caswell Beach and (2) a control location in the Atlantic Ocean not influenced by plant operations and annually from three new locations on Nancy's Creek (Figure 4). In all 15 samples (indicator and control), no detectable activities relating to plant effluents were detected in 2008. All radionuclides positively identified by the radionuclide analyses were naturally occurring nuclides. The new fish locations sampled in 2008 were also analyzed for tritium, with all the tritium results being less than LLD.

### **Groundwater**

Groundwater is sampled semiannually and quarterly from 40 indicator sample sites. These samples are analyzed for gamma-emitting radionuclides (semiannually) and for tritium (at least quarterly). The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the indicator samples. Analyses indicated detectable concentrations of tritium in 217 out of 486 samples analyzed in 2008. No groundwater samples exceeded reportable concentrations, and there is no indication that the tritium is migrating beyond the Progress Energy owned property through the groundwater.

### **Shoreline Sediments**

Two shoreline sediments in 2008 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 (SW) is sampled monthly from the intake and discharge canal and Nancy's Creek is sampled weekly. These samples are analyzed for gamma-emitting radionuclides and for tritium. Tritium analysis is performed weekly on the Nancy Creek samples. Sampling and compositing for gamma emitters is weekly and the gamma analysis is performed monthly on the samples composited weekly. The analyses indicated that no detectable concentrations of gamma emitting radionuclides relating to plant effluents appeared in any of the indicator and control samples. None of the control samples indicated the presence of tritium. However, sixty-nine (69) out of 278 indicator samples indicated the presence of tritium in 2008. The predominate location(s) indicating tritium were at Nancy's Creek and the discharge canal indicator locations. Four (4) of the twelve samples from the historical discharge canal indicated the presence of tritium, while sixty-five (65) out of 266 samples from Nancy's Creek indicated the presence of tritium. The tritium activity detected in SW-401 (the discharge canal composite sample) had a maximum tritium concentration of  $7.53E+2$  pCi/L, which was expected due to plant operations at the time of sampling. The indicator samples from Nancy's Creek had a maximum concentration

of  $7.19\text{E}+2$  pCi/L of tritium activity. The reporting limit for tritium in environmental samples is 30,000 pCi/L; therefore, the detected values are well below the reportable limit. Figure 15 depicts the observed tritium concentrations for SW-400 (control) and SW-401 (indicator) in 2008.

### **External Radiation Exposure**

The environmental data on external radiation exposure for 2008 was essentially unchanged from 1989-2007 with an average exposure for all of 2008 indicator locations of 9.9 mR per quarter. The average exposure observed over the preoperational period was 1.02 mR per week observed from the fourth quarter of 1972 through the second quarter of 1975. Table 5 provides a comparison of recent data with the preoperational and historical data.

The highest average exposure occurred at one TLD location at 5.3 miles SW. The exposure was 11.9 mR per quarter. Figure 16 depicts average inner and outer ring TLD data for each quarter of 2008. This depiction does not indicate a significant higher exposure rate for the inner versus the outer ring. This is interpreted as demonstrating that no discernible off-site exposure has occurred from plant operations.

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

Gross Beta Activity (pCi/m <sup>3</sup> )								
	Preoperational		Recent Operational					
<u>Location</u>	<u>1973</u>	<u>1974</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
AP-200	2.2E-2	1.4E-1	1.4E-2	1.7E-2	1.8E-2	1.9E-2	1.9E-2	1.9E-2
AP-201	3.1E-2	1.4E-1	1.5E-2	1.8E-2	1.9E-2	1.9E-2	2.0E-2	1.8E-2
AP-202	3.4E-2	1.4E-1	1.5E-2	1.7E-2	1.7E-2	1.8E-2	1.9E-2	1.9E-2
AP-203	2.4E-2	1.3E-1	1.6E-2	1.8E-2	1.8E-2	1.8E-2	2.0E-2	1.9E-2
AP-204*	2.5E-2	1.3E-1	1.6E-2	1.8E-2	1.9E-2	1.9E-2	2.1E-2	1.8E-2
AP-205	**	**	1.4E-2	1.8E-2	1.8E-2	1.8E-2	1.9E-2	1.9E-2

\* Control location

\*\* This sample point added post-operational.



**TABLE 5**  
**Brunswick Steam Electric Plant**  
**HISTORICAL TLD RESULTS (1972-2008)**

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

\*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 2008.

Missed Surveillances:

- None Reported

### **Food Crops / Vegetation**

No food crops were grown in the vicinity of the plant in 2008; therefore, none were collected. The media were represented by indigenous vegetation samples (broadleaf vegetation) consisting primarily of wax myrtle leaves.

### **Thermoluminescent Dosimeters (TLDs)**

One out of a possible 180 TLD samples was missing during 2008. The missing TLDs occurred:

First Quarter	TLD # 21 was missing in the field due to the power pole it was stationed on being replaced with underground utilities, which resulted in the loss of the TLD. A new TLD and holder were installed adjacent to the location (NCR # 274678).
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## **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  $4.2E-3$  pCi/m<sup>3</sup>.

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. The distillate is mixed with a liquid scintillation cocktail and counted for the appropriate time to reach the desired LLD. The desired LLD was approximately  $2.50E+2$  pCi/L. This lower LLD was established to compare BSEP tritium LLDs and North Carolina Department of Radiation Protection's reportable concentrations, in the Split Sample Program's Annual Report. The fish samples requiring tritium analysis are analyzed by a vendor laboratory.

### **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  $6.2E-2$  pCi/m<sup>3</sup>.

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

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

Liquid samples are transferred to Marinelli beakers and analyzed by gamma counting. One-liter SW samples are gamma scanned directly in a 1-Liter Marinelli beaker for 80,000 seconds. The previous analysis method, which involved heated evaporation of the waters (non-drinking water

samples) to concentrate the radioactive constituents was stopped in October 2008 and the direct gamma scan of all non-drinking water samples began (NCR # 303063). The analytical method being used prior to October 2008 for gamma activity in BSEP non-drinking water environmental samples for the Radiological Environmental Monitoring Program (REMP) might have produced non-conservative results with regard to I-131. The quality control data reviewed revealed that if any bias was present in the BSEP non-drinking water (surface water [SW-400 and 401]) data (24 data points), it would have been small. This scenario does not present a public dose concern, since I-131 is monitored as part of the Radioactive Effluent Release Program. All BSEP surface water is brackish and is not used for human consumption; furthermore, it is unlikely that I-131 would be present in water in the absence of other radionuclides such as Cs-137.

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

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

Fish samples are prepared by stuffing small raw, edible portions of the fish in a one liter Marinelli beaker and edible portions of invertebrate organisms are cleaned and placed in a one liter Marinelli beaker for analysis for a typical count time of 1,800 seconds.

### **Thermoluminescent Dosimetry**

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

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

### **Interlaboratory Comparison Program**

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

The Interlaboratory Comparison Program entails measurements on each instrument that is used to determine concentrations of radioactive material in the various media that are analyzed as part of the REMF. During 2008, 120 average analyses were completed on 18 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 120 average analyses have been received from Eckert & Ziegler Analytics. The results were compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental monitoring.

All of the 120 average analyses were within the acceptance criteria. During 2008, the individual measurements were evaluated (NCR # 289134, 302410, and 334597). Any results falling outside the acceptable ratio criteria have had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

### **Lower Limits of Detection**

All samples analyzed met the LLD required by the ODCM; however, the I-131 in non-drinking water environmental samples may not have met the LLD required by the ODCM. This is due to the analytical method for gamma activity (I-131) producing non-conservative results (NCR # 303063) for surface water samples, possibly 24 total samples. 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**

<b>Surface Water Samples (Saline Water)</b>	
<b>Isotope</b>	<b>LLD (pCi/l)</b>
Mn-54	4
Co-58	5
Fe-59	13
Co-60	6
Zn-65	10
Zr-Nb-95	8 / 6
I-131	14.1
Cs-134	5
Cs-137	4
Ba-La-140	33 / 8
<b>Air Particulates (Quarterly Composite)</b>	
<b>Isotope</b>	<b>LLD (pCi/m<sup>3</sup>)</b>
Cs-134	0.002
Cs-137	0.002
<b>Shoreline Sediment</b>	
<b>Isotope</b>	<b>LLD (pCi/kg, dry)</b>
Cs-134	109
Cs-137	110
<b>Fish</b>	
<b>Isotope</b>	<b>LLD (pCi/kg, wet)</b>
Mn-54	86
Co-58	91
Fe-59	242
Co-60	113
Zn-65	227
Cs-134	91
Cs-137	102
<b>Food Products and Vegetation</b>	
<b>Isotope</b>	<b>LLD (pCi/kg, wet)</b>
I-131	58.6
Cs-134	34
Cs-137	49

# LAND USE CENSUS

## PURPOSE OF THE LAND USE CENSUS

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

The pathways that are evaluated are:

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

## **Methodology**

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

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

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

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

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

## **2008 Land Use Census Results**

The 2007 and 2008 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 7.

The resident portion of the census conducted in June and July of 2008 did identify changes in the identity of the nearest resident from plant center from 2007 in the NNE sector. The garden portion of the census identified changes in the distances, locations, and existence of the nearest garden in five sectors. As a result of the use of more accurate GPS readings, variations on the order of 0.1 miles were observed during the 2008 census.

The nearest garden location changed in the North Northeast (NNE) sector from no garden to one at 0.9 miles, the East Southeast (ESE) from no garden to 1.4 miles, the South (S) sector from 1.7 miles to 1.8 miles, the South Southwest (SSW) sector from 1.9 miles to 1.9 miles (different location), and the Southwest (SW) sector from 2.5 miles to 3.0 miles. No milk animals were located within 5 miles of the plant in 2008.

The 2008 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 2008 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 (2007- 2008)**  
**NEAREST PATHWAY (MILES)**

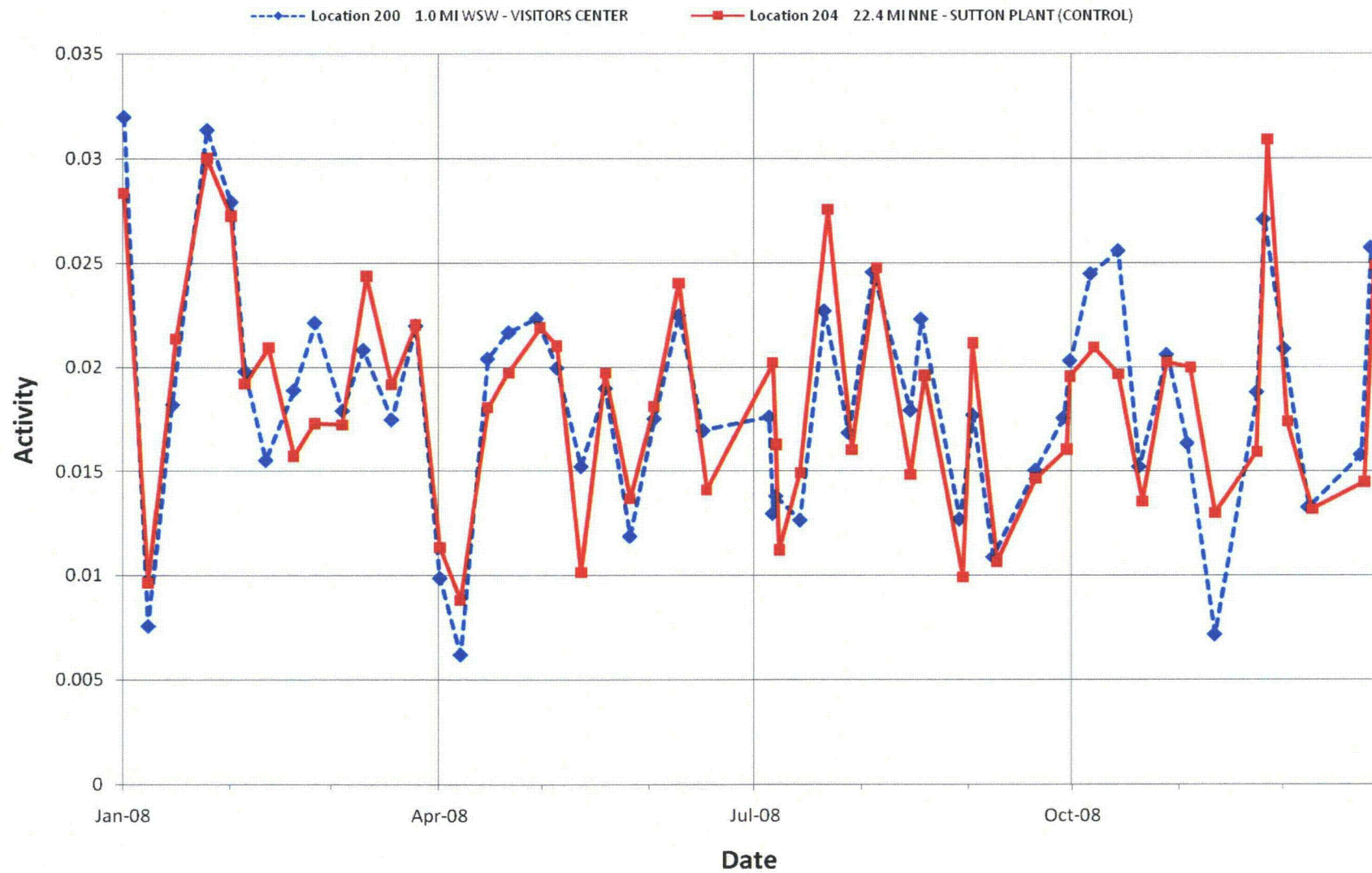
SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	2007	2008	2007	2008	2007	2008
N	0.8	0.7	1.0	1.0	None	None
NNE	0.8	0.8*	None	0.9*	None	None
NE	None	None	None	None	None	None
ENE	None	None	None	None	None	None
E	None	None	None	None	None	None
ESE	1.4	1.4	None	1.4*	None	None
SE	None	None	None	None	None	None
SSE	2.1	2.1	None	None	None	None
S	1.1	1.1	1.7	1.8*	None	None
SSW	1.2	1.2	1.9	1.9*	None	None
SW	1.1	1.1	2.5	3.0*	None	None
WSW	1.2	1.2	1.2	1.2	None	None
W	0.9	0.9	1.0	1.0	None	None
WNW	0.9	0.9	None	None	None	None
NW	0.9	0.9	4.9	4.9	None	None
NNW	0.8	0.8	0.9	0.9	None	None

\* Represents a change from the previous year.

**TABLE 8**  
**Brunswick Steam Electric Plant**  
**GARDEN CENSUS (2008)**

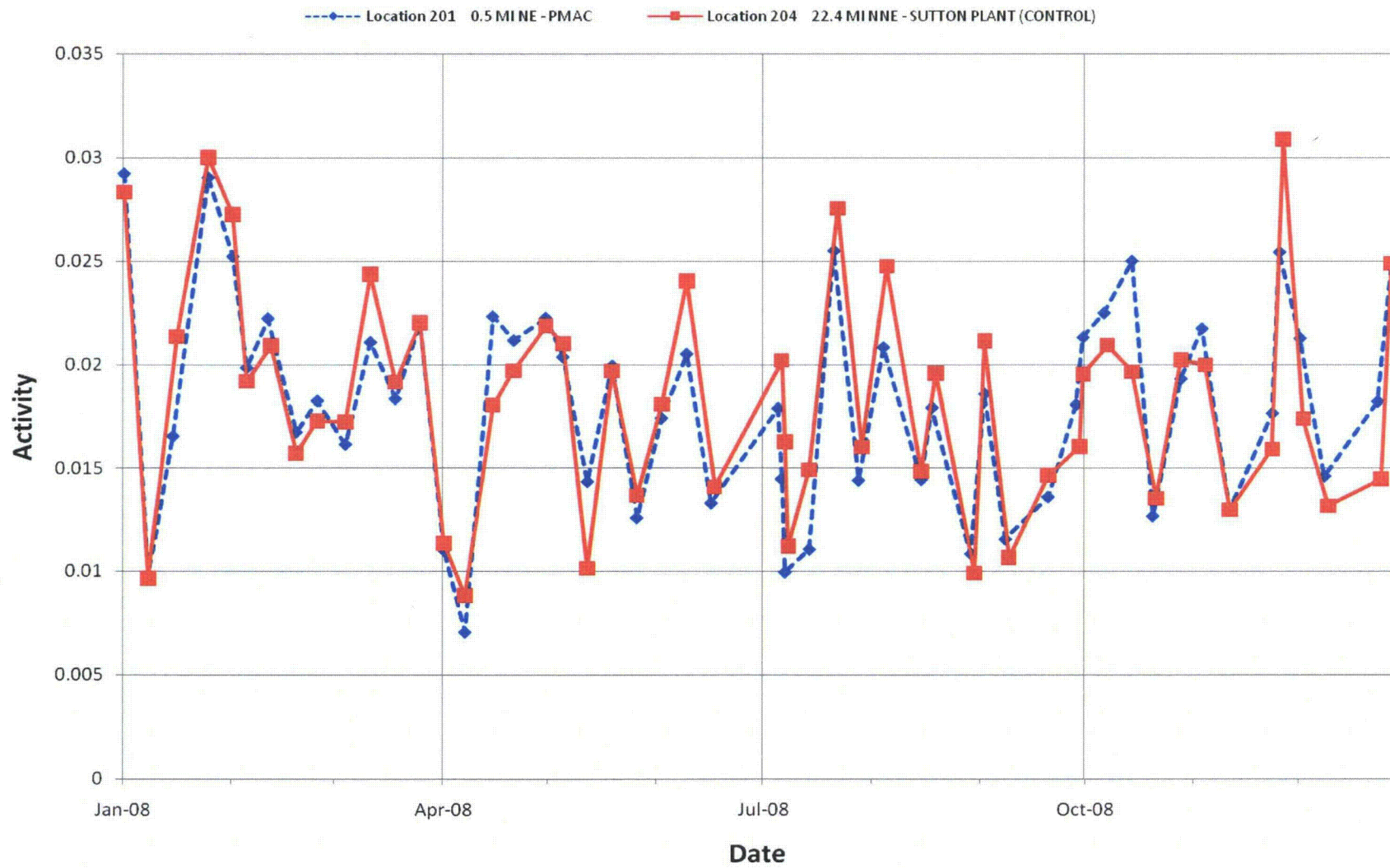
<b>SECTOR</b>	<b>DISTANCE (miles)</b>		<b>SECTOR</b>	<b>DISTANCE (miles)</b>
N	1.0		SW	3.0
N	1.0		WSW	1.2
NNE	0.9		WSW	1.3
NNE	1.2		WSW	1.6
NE	None		WSW	2.1
ENE	None		WSW	2.1
E	None		W	1.0
ESE	1.4		W	1.2
SE	None		W	1.4
SSE	None		W	2.5
S	1.8		W	2.7
S	2.3		W	2.7
S	2.3		WNW	None
S	2.4		NW	4.9
SSW	1.9		NNW	0.9
SSW	2.0		NNW	1.0
SSW	2.1		NNW	3.1
SSW	2.1		NNW	3.3
SSW	2.2		NNW	4.3
SSW	2.3		NNW	4.5
SSW	2.3		NNW	4.6
SSW	2.4		NNW	4.8
SSW	2.7		NNW	4.9
SSW	2.7			
SSW	2.8			
SSW	2.8			

**Figure 10 For BSEP from 1/1/2008 To 12/31/2008**  
**AIR PARTICULATE for GROSS BETA - Activity (pCi/ cubic meter)**

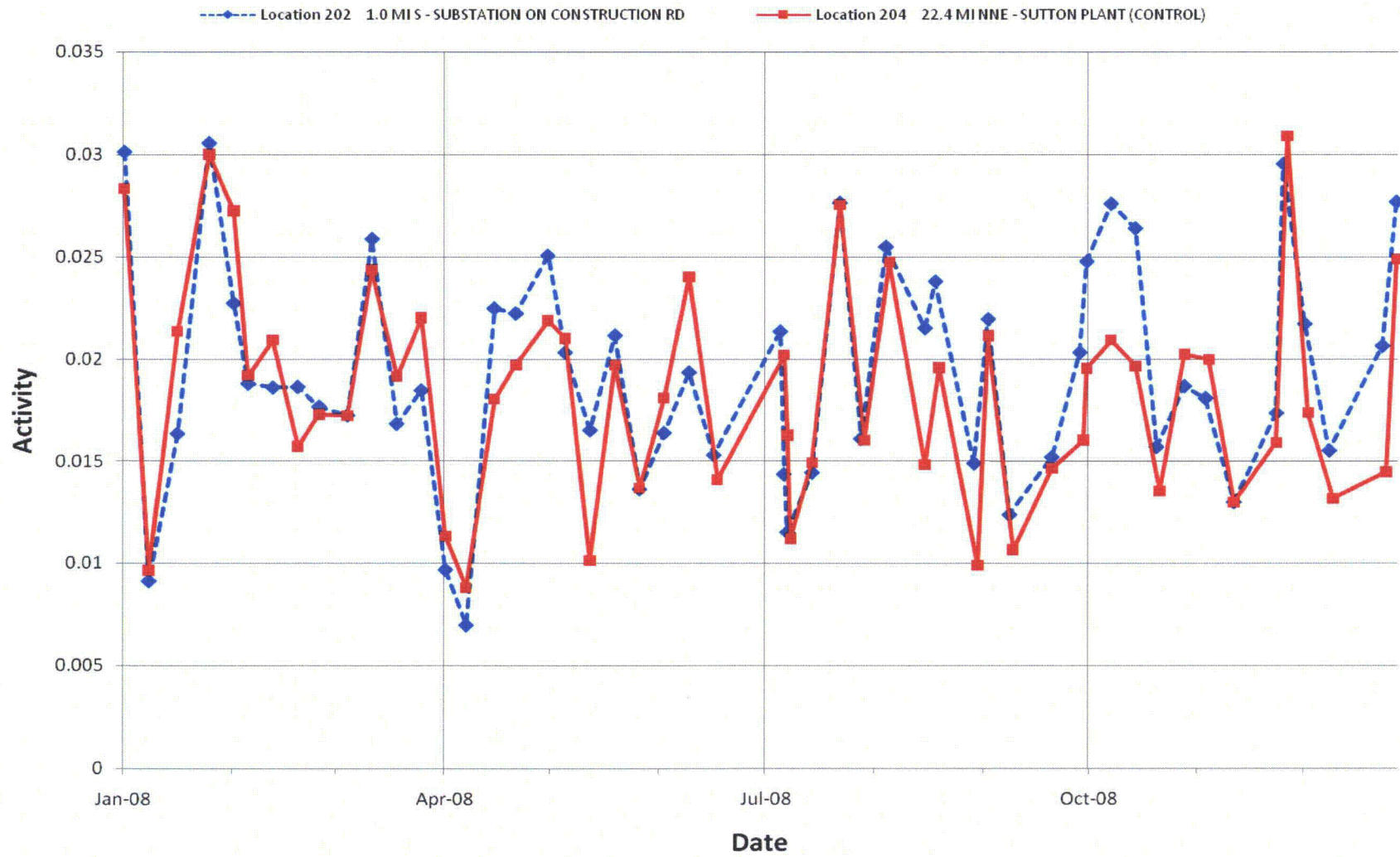


**Figure 11 For BSEP from 1/1/2008 To 12/31/2008**

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



**Figure 12 For BSEP from 1/1/2008 To 12/31/2008**  
**AIR PARTICULATE for GROSS BETA - Activity (pCi/ cubic meter)**



**Figure 13 For BSEP from 1/1/2008 To 12/31/2008**  
**AIR PARTICULATE for GROSS BETA - Activity (pCi/ cubic meter)**

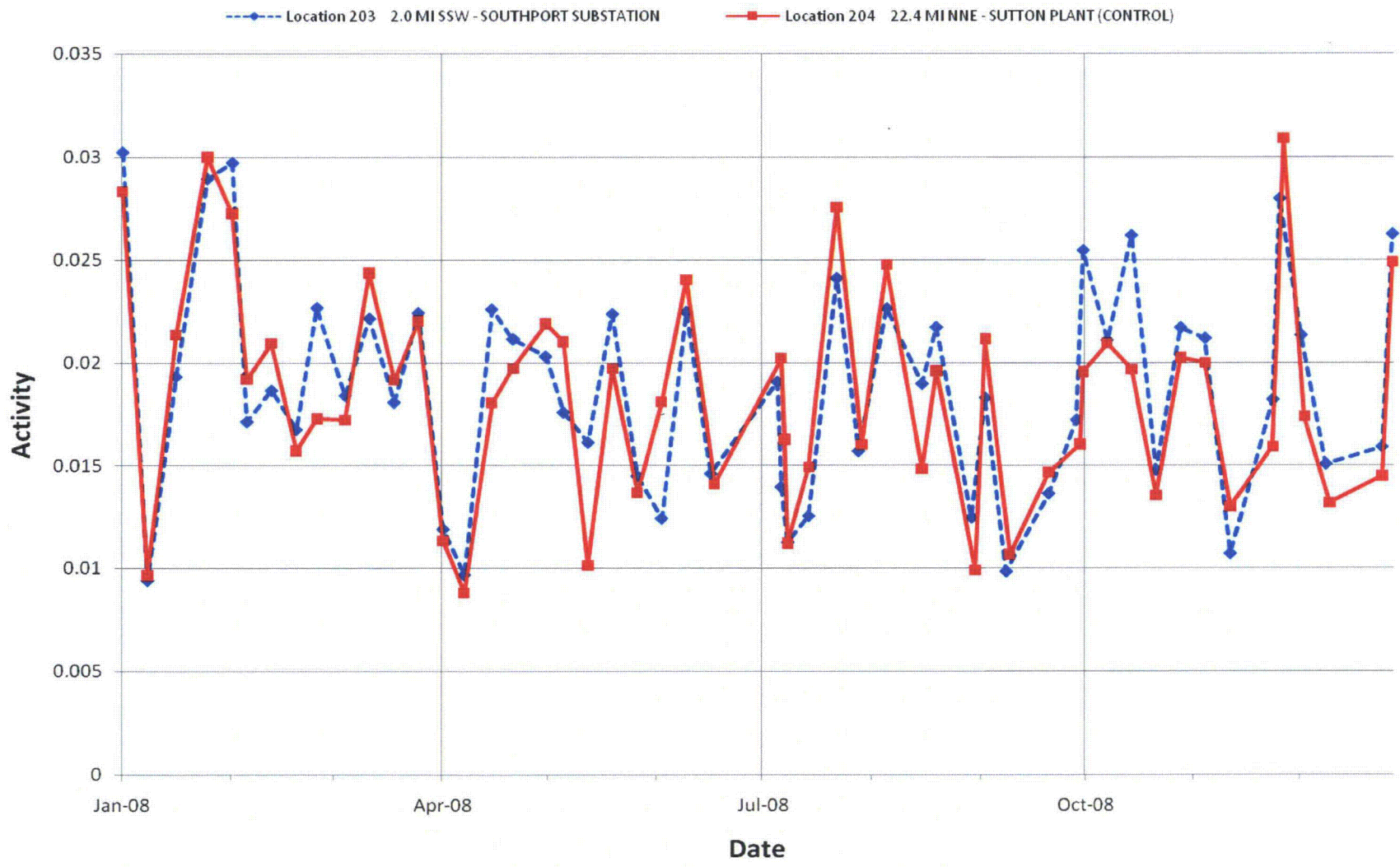
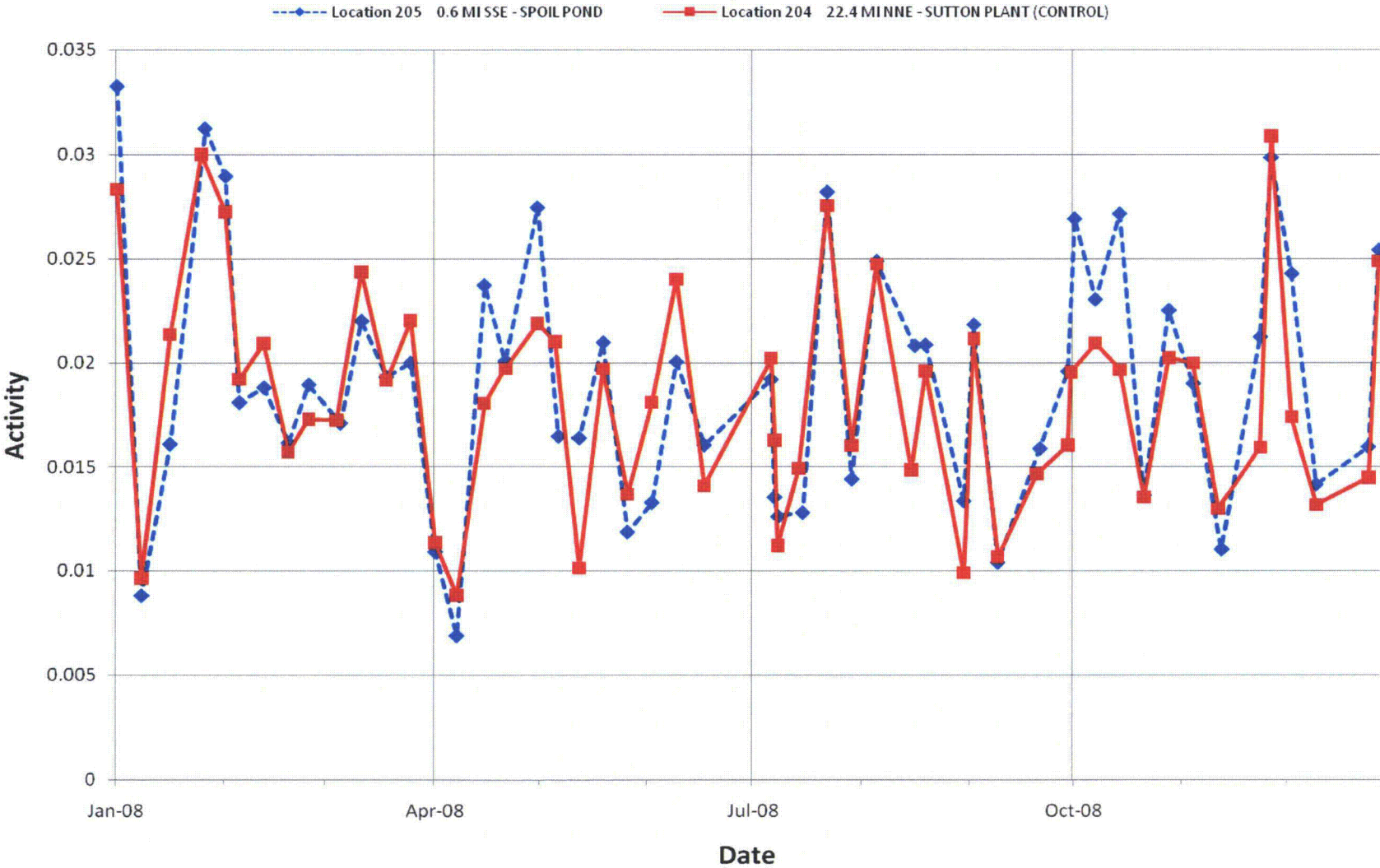


Figure 14 For BSEP from 1/1/2008 To 12/31/2008

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



### Figure 15 BSEP 2008 Surface Water Tritium

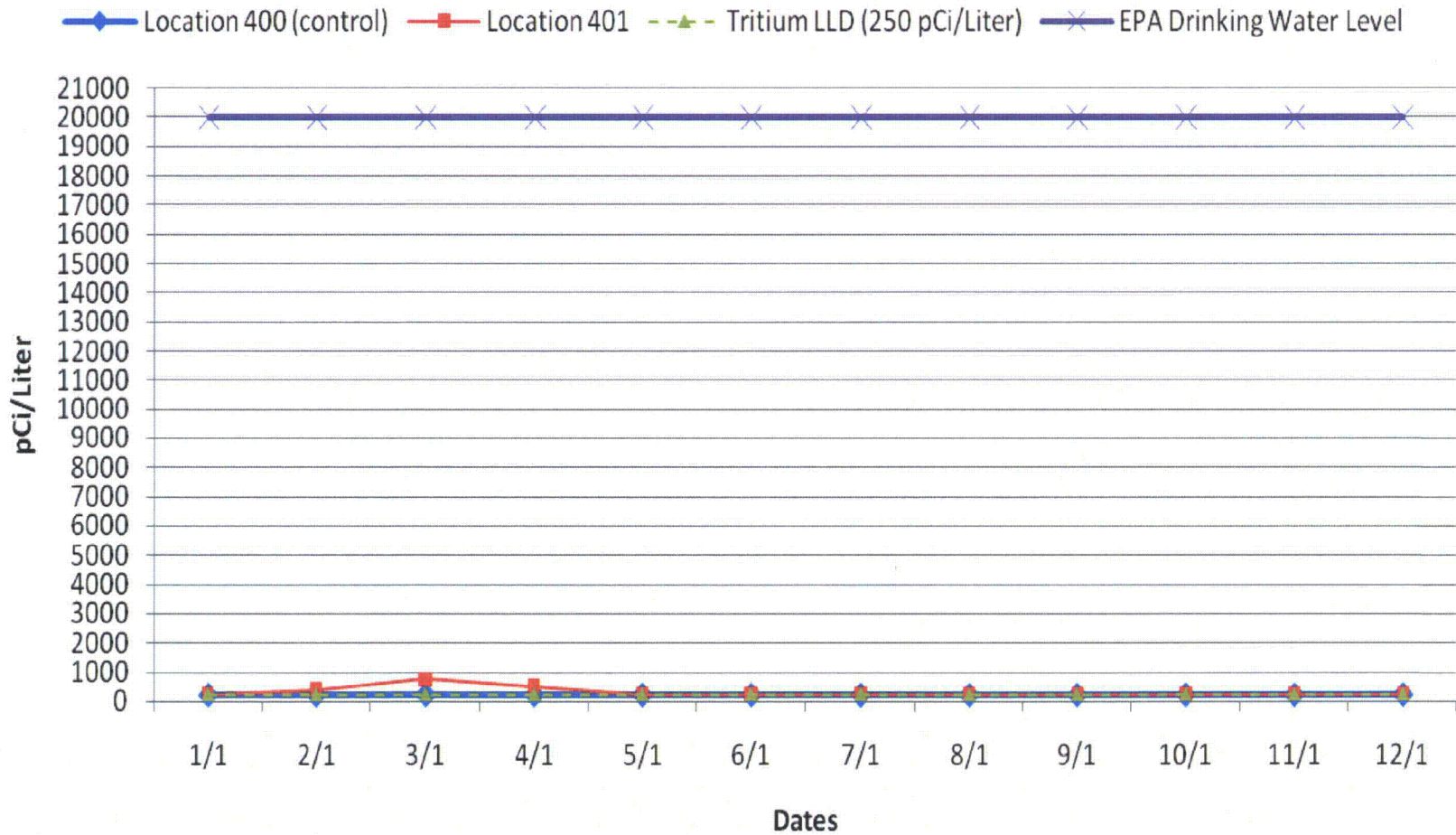
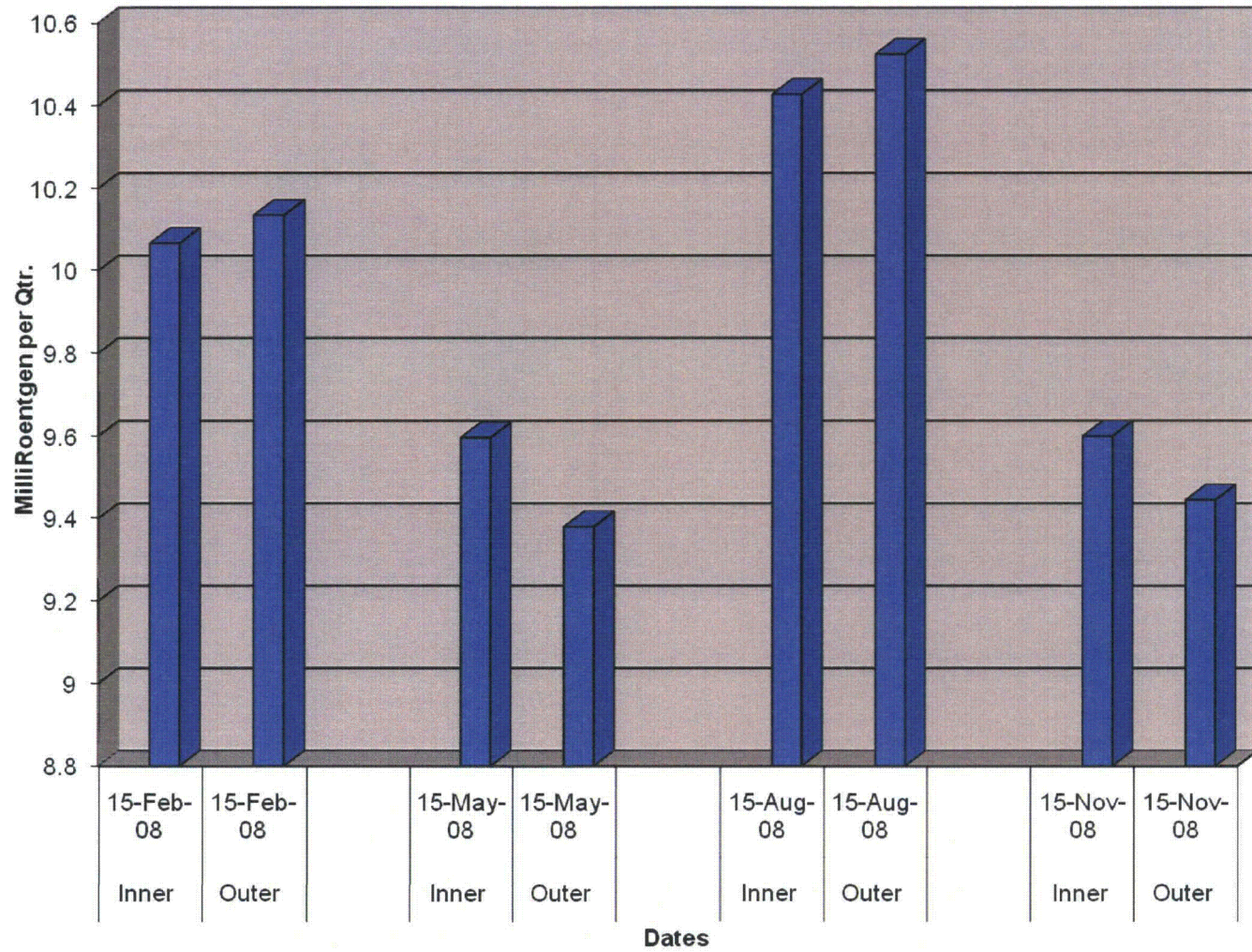




Figure 16 BSEP 2008 TLD Averages for Inner and Outer Ring Locations



# **2008 BSEP Radiological Environmental Monitoring TLD Report**

## Comments

- TLD points 41 thru 74 are not ODCM TLD sample points and are not listed.
- TLD sample points 19 and 80 have been retired and are not used.
- All BSEP Environmental TLDs were present in 2008, except for the following TLDs:
  - TLD # 21 First Quarter of 2008

## ***BNP Radiological Environmental Monitoring TLD Report***

*Dose: mR/std. qtr.*

<i><b>TLD</b></i>	<i><b>TLD Location Description</b></i>	<i><b>Sample Date</b></i>	<i><b>Dose</b></i>	<i><b>2 Sigma Error</b></i>
1	1.1 MI E	2/15/2008	9.6	1.2
1	1.1 MI E	5/15/2008	9.9	1.8
1	1.1 MI E	8/15/2008	10.3	1
1	1.1 MI E	11/15/2008	9.7	1.1
2	0.9 MI ESE	2/15/2008	9.9	1.5
2	0.9 MI ESE	5/15/2008	9.6	1.4
2	0.9 MI ESE	8/15/2008	9.8	1.5
2	0.9 MI ESE	11/15/2008	10	1.3
3	0.9 MI SE	2/15/2008	9.2	1.3
3	0.9 MI SE	5/15/2008	10.4	1.1
3	0.9 MI SE	8/15/2008	9.8	1.1
3	0.9 MI SE	11/15/2008	10.1	1.1
4	1.1 MI SSE	2/15/2008	10.2	1.4
4	1.1 MI SSE	5/15/2008	9.3	1.1
4	1.1 MI SSE	8/15/2008	9.9	1.7
4	1.1 MI SSE	11/15/2008	9.6	1.1
5	1.1 MI S	2/15/2008	10.5	1.5
5	1.1 MI S	5/15/2008	9.9	1.1
5	1.1 MI S	8/15/2008	10.8	1.5
5	1.1 MI S	11/15/2008	9.8	1.3
6	1.1 MI SSW	2/15/2008	12.8	1
6	1.1 MI SSW	5/15/2008	11.3	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>
6	1.1 MI SSW	8/15/2008	9.9	1.1
6	1.1 MI SSW	11/15/2008	8.2	0.7
7	1.1 MI SW	2/15/2008	9.5	1.1
7	1.1 MI SW	5/15/2008	9.7	2.2
7	1.1 MI SW	8/15/2008	10.2	1.7
7	1.1 MI SW	11/15/2008	9.6	0.6
8	1.2 MI W	2/15/2008	10	1.2
8	1.2 MI W	5/15/2008	9.5	1.1
8	1.2 MI W	8/15/2008	10	1.6
8	1.2 MI W	11/15/2008	9.2	0.8
9	1.0 MI WNW	2/15/2008	8.4	1.7
9	1.0 MI WNW	5/15/2008	9.2	0.9
9	1.0 MI WNW	8/15/2008	8.4	1.1
9	1.0 MI WNW	11/15/2008	9	0.6
10	0.8 MI NW	2/15/2008	8.7	0.9
10	0.8 MI NW	5/15/2008	8.4	0.8
10	0.8 MI NW	8/15/2008	9.6	1.3
10	0.8 MI NW	11/15/2008	8.9	0.9
11	0.9 MI NNW	2/15/2008	9	1.3
11	0.9 MI NNW	5/15/2008	9.4	1.2
11	0.9 MI NNW	8/15/2008	9.4	1.3
11	0.9 MI NNW	11/15/2008	9.8	1.2
12	1.1 MI N	2/15/2008	9.3	2.5
12	1.1 MI N	5/15/2008	9.4	1.1

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
12	1.1 MI N	8/15/2008	10.1	1.2
12	1.1 MI N	11/15/2008	9.4	1.7
13	1.2 MI NNE	2/15/2008	9	0.9
13	1.2 MI NNE	5/15/2008	8.1	0.8
13	1.2 MI NNE	8/15/2008	9.1	1.3
13	1.2 MI NNE	11/15/2008	8.4	0.8
14	0.5 MI NE	2/15/2008	10.7	0.8
14	0.5 MI NE	5/15/2008	10.3	1.5
14	0.5 MI NE	8/15/2008	11.2	1.8
14	0.5 MI NE	11/15/2008	9.9	0.8
15	0.9 MI ENE	2/15/2008	10.8	0.8
15	0.9 MI ENE	5/15/2008	10.7	1.1
15	0.9 MI ENE	8/15/2008	11.4	1.1
15	0.9 MI ENE	11/15/2008	10.5	0.6
16	1.0 MI WSW	2/15/2008	9.1	0.9
16	1.0 MI WSW	5/15/2008	9	1.1
16	1.0 MI WSW	8/15/2008	9.1	1.9
16	1.0 MI WSW	11/15/2008	8.9	1.9
17	1.4 MI ESE	2/15/2008	12.4	2.2
17	1.4 MI ESE	5/15/2008	9.7	1.9
17	1.4 MI ESE	8/15/2008	12.1	1.8
17	1.4 MI ESE	11/15/2008	10.7	1.3
18	1.7 MI SE	2/15/2008	10.6	1
18	1.7 MI SE	5/15/2008	9.7	0.9

*Dose: mR/std. qtr.*

<b><i>TLD</i></b>	<b><i>TLD Location Description</i></b>	<b><i>Sample Date</i></b>	<b><i>Dose</i></b>	<b><i>2 Sigma Error</i></b>
18	1.7 MI SE	8/15/2008	12.6	1.9
18	1.7 MI SE	11/15/2008	9.9	1
20	2.1 MI S	2/15/2008	9.8	2.3
20	2.1 MI S	5/15/2008	8.5	1.8
20	2.1 MI S	8/15/2008	11.8	2.3
20	2.1 MI S	11/15/2008	9.1	0.9
21	2.9 MI SSW	5/15/2008	10.8	1.4
21	2.9 MI SSW	8/15/2008	11.8	1.1
21	2.9 MI SSW	11/15/2008	11.9	1
22	5.3 MI SW	2/15/2008	9.2	1.2
22	5.3 MI SW	5/15/2008	9.8	1.2
22	5.3 MI SW	8/15/2008	9.2	1.6
22	5.3 MI SW	11/15/2008	9.5	0.7
23	4.6 MI WSW	2/15/2008	9.3	1
23	4.6 MI WSW	5/15/2008	7.4	1.1
23	4.6 MI WSW	8/15/2008	10	1.5
23	4.6 MI WSW	11/15/2008	7	1
24	3.0 MI W	2/15/2008	10.7	1.8
24	3.0 MI W	5/15/2008	10	1
24	3.0 MI W	8/15/2008	11.4	2.8
24	3.0 MI W	11/15/2008	9.8	0.7
25	8.6 MI WNW	2/15/2008	9.6	1.1
25	8.6 MI WNW	5/15/2008	9.5	1.2
25	8.6 MI WNW	8/15/2008	9.5	1.6

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
25	8.6 MI WNW	11/15/2008	9.8	1
26	5.9 MI NW	2/15/2008	12.6	0.8
26	5.9 MI NW	5/15/2008	10.5	1.2
26	5.9 MI NW	8/15/2008	13.2	0.9
26	5.9 MI NW	11/15/2008	10.7	1.5
27	5.1 MI NNW	2/15/2008	10	1.2
27	5.1 MI NNW	5/15/2008	9.5	3.7
27	5.1 MI NNW	8/15/2008	10.6	1.2
27	5.1 MI NNW	11/15/2008	8.5	1
28	4.2 MI NW	2/15/2008	10	1.6
28	4.2 MI NW	5/15/2008	9.2	0.9
28	4.2 MI NW	8/15/2008	10.4	1.4
28	4.2 MI NW	11/15/2008	9.4	1.7
29	2.6 MI SSW	2/15/2008	9.3	1.9
29	2.6 MI SSW	5/15/2008	8.6	1
29	2.6 MI SSW	8/15/2008	9.3	1.2
29	2.6 MI SSW	11/15/2008	8.3	1.3
30	2.0 MI NE	2/15/2008	12.1	1.2
30	2.0 MI NE	5/15/2008	9.8	1.5
30	2.0 MI NE	8/15/2008	12.3	1.1
30	2.0 MI NE	11/15/2008	9.8	1
31	2.5 MI ENE	2/15/2008	10	0.8
31	2.5 MI ENE	5/15/2008	9.5	1.2
31	2.5 MI ENE	8/15/2008	10	0.9

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
31	2.5 MI ENE	11/15/2008	10.1	1.1
32	5.8 MI ENE	2/15/2008	11.2	0.9
32	5.8 MI ENE	5/15/2008	11.1	1.5
32	5.8 MI ENE	8/15/2008	12	1.5
32	5.8 MI ENE	11/15/2008	10.9	0.9
33	4.1 MI E	2/15/2008	9	1
33	4.1 MI E	5/15/2008	8.2	1.5
33	4.1 MI E	8/15/2008	9.9	1.2
33	4.1 MI E	11/15/2008	8.4	0.8
34	5.4 MI E	2/15/2008	8.8	0.8
34	5.4 MI E	5/15/2008	8.8	1.1
34	5.4 MI E	8/15/2008	9.5	1.7
34	5.4 MI E	11/15/2008	8.8	0.9
35	7.3 MI SSE	2/15/2008	8.2	0.9
35	7.3 MI SSE	5/15/2008	7.8	1
35	7.3 MI SSE	8/15/2008	8.1	1.1
35	7.3 MI SSE	11/15/2008	8.3	1.6
36	8.9 MI NE	2/15/2008	9.7	1
36	8.9 MI NE	5/15/2008	9.4	1.1
36	8.9 MI NE	8/15/2008	10.2	1.1
36	8.9 MI NE	11/15/2008	9.6	0.6
37	5.5 MI NW	2/15/2008	8.8	1
37	5.5 MI NW	5/15/2008	7.8	1.3
37	5.5 MI NW	8/15/2008	8.8	0.9



*Dose: mR/std. qtr.*

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
37	5.5 MI NW	11/15/2008	8.3	1.2
38	11.0 MI W	2/15/2008	9.2	1.8
38	11.0 MI W	5/15/2008	8.9	1
38	11.0 MI W	8/15/2008	10	1.8
38	11.0 MI W	11/15/2008	9.1	0.7
39	5.3 MI SW	2/15/2008	11.3	1.7
39	5.3 MI SW	5/15/2008	12.8	1.4
39	5.3 MI SW	8/15/2008	11.4	1
39	5.3 MI SW	11/15/2008	12.1	1.4
40	6.9 MI WSW	2/15/2008	10.7	1.1
40	6.9 MI WSW	5/15/2008	11.8	1.2
40	6.9 MI WSW	8/15/2008	12.1	1
40	6.9 MI WSW	11/15/2008	12.1	0.6
75	4.7 MI S	2/15/2008	9.9	0.9
75	4.7 MI S	5/15/2008	9.3	1.7
75	4.7 MI S	8/15/2008	10.3	1.1
75	4.7 MI S	11/15/2008	9.7	0.9
76	4.8 MI SSW	2/15/2008	12.7	1.6
76	4.8 MI SSW	5/15/2008	10.3	1.4
76	4.8 MI SSW	8/15/2008	12.5	1.6
76	4.8 MI SSW	11/15/2008	10.5	0.8
77	5.4 MI S	2/15/2008	10.1	1.4
77	5.4 MI S	5/15/2008	7.1	1
77	5.4 MI S	8/15/2008	9.7	0.9

*Dose: mR/std. qtr.*

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
77	5.4 MI S	11/15/2008	7.3	0.8
78	9.9 MI NNE	2/15/2008	9	1
78	9.9 MI NNE	5/15/2008	9.2	1.2
78	9.9 MI NNE	8/15/2008	9.4	1.5
78	9.9 MI NNE	11/15/2008	9.1	0.6
79	9.5 MI N	2/15/2008	11.8	1.1
79	9.5 MI N	5/15/2008	9.3	1.7
79	9.5 MI N	8/15/2008	11.6	1.5
79	9.5 MI N	11/15/2008	9.7	0.7
81	9.9 MI WNW - CONTROL	2/15/2008	11.6	0.9
81	9.9 MI WNW - CONTROL	5/15/2008	9.1	1.3
81	9.9 MI WNW - CONTROL	8/15/2008	12.5	1.5
81	9.9 MI WNW - CONTROL	11/15/2008	9.5	0.6

# 2008 BSEP

## Radiological Environmental Monitoring Analysis Report

### Comments

- Efficiency values are not included for AC samples requiring radioiodine analysis (I-131), because gamma software does not report these values.
- The Less than LLD (<LLD) represents that no activity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.
- Tritium samples that exhibit activity will not indicate LLD values for the following samples:
  - Groundwater samples (402 – 440 and 447)
  - Surface Water samples (494 – 499)

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>	
200	1.0 MI WSW - VISITORS CENTER	1/7/2008	257.4	3.70E-01	3.20E-02	4.00E-03	3.24E-03
200	1.0 MI WSW - VISITORS CENTER	1/14/2008	299	3.70E-01	7.57E-03	2.50E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	1/21/2008	294.8	3.70E-01	1.82E-02	3.18E-03	3.33E-03
200	1.0 MI WSW - VISITORS CENTER	1/28/2008	295.1	3.70E-01	3.14E-02	3.77E-03	3.24E-03
200	1.0 MI WSW - VISITORS CENTER	2/4/2008	295.9	3.70E-01	2.79E-02	3.57E-03	3.12E-03
200	1.0 MI WSW - VISITORS CENTER	2/11/2008	269.8	3.70E-01	1.98E-02	3.48E-03	3.67E-03
200	1.0 MI WSW - VISITORS CENTER	2/18/2008	291.9	3.70E-01	1.55E-02	2.96E-03	3.11E-03
200	1.0 MI WSW - VISITORS CENTER	2/25/2008	290.4	3.70E-01	1.89E-02	3.02E-03	2.76E-03
200	1.0 MI WSW - VISITORS CENTER	3/3/2008	281.9	3.70E-01	2.21E-02	3.29E-03	2.93E-03
200	1.0 MI WSW - VISITORS CENTER	3/10/2008	291.4	3.70E-01	1.79E-02	2.99E-03	2.83E-03
200	1.0 MI WSW - VISITORS CENTER	3/17/2008	293.7	3.70E-01	2.08E-02	3.23E-03	3.09E-03
200	1.0 MI WSW - VISITORS CENTER	3/24/2008	274.8	3.70E-01	1.75E-02	3.10E-03	3.06E-03
200	1.0 MI WSW - VISITORS CENTER	3/31/2008	278.3	3.70E-01	2.20E-02	3.33E-03	3.05E-03
200	1.0 MI WSW - VISITORS CENTER	4/7/2008	276.5	3.70E-01	9.86E-03	2.65E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	4/14/2008	279.3	3.70E-01	6.19E-03	2.50E-03	3.33E-03
200	1.0 MI WSW - VISITORS CENTER	4/21/2008	280.8	3.70E-01	2.04E-02	3.21E-03	2.97E-03
200	1.0 MI WSW - VISITORS CENTER	4/28/2008	281.3	3.70E-01	2.16E-02	3.39E-03	3.30E-03
200	1.0 MI WSW - VISITORS CENTER	5/5/2008	276.2	3.70E-01	2.23E-02	3.40E-03	3.16E-03
200	1.0 MI WSW - VISITORS CENTER	5/12/2008	283.5	3.70E-01	1.99E-02	3.30E-03	3.30E-03
200	1.0 MI WSW - VISITORS CENTER	5/19/2008	283.5	3.70E-01	1.52E-02	2.96E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	5/27/2008	317.4	3.70E-01	1.89E-02	2.96E-03	2.81E-03
200	1.0 MI WSW - VISITORS CENTER	6/2/2008	246.2	3.70E-01	1.19E-02	3.23E-03	3.94E-03
200	1.0 MI WSW - VISITORS CENTER	6/9/2008	281.2	3.70E-01	1.75E-02	3.07E-03	3.02E-03
200	1.0 MI WSW - VISITORS CENTER	6/16/2008	279.8	3.70E-01	2.25E-02	3.46E-03	3.37E-03
200	1.0 MI WSW - VISITORS CENTER	6/23/2008	282	3.70E-01	1.69E-02	3.20E-03	3.46E-03
200	1.0 MI WSW - VISITORS CENTER	6/30/2008	280.8	3.74E-01	1.76E-02	3.18E-03	3.32E-03
200	1.0 MI WSW - VISITORS CENTER	7/7/2008	282.7	3.74E-01	1.30E-02	2.83E-03	3.13E-03

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
200	1.0 MI WSW - VISITORS CENTER	7/14/2008	283	3.74E-01	1.38E-02	2.82E-03	2.97E-03
200	1.0 MI WSW - VISITORS CENTER	7/21/2008	282.1	3.74E-01	1.26E-02	2.85E-03	3.21E-03
200	1.0 MI WSW - VISITORS CENTER	7/28/2008	288.9	3.74E-01	2.27E-02	3.25E-03	2.86E-03
200	1.0 MI WSW - VISITORS CENTER	8/4/2008	280.6	3.74E-01	1.68E-02	3.01E-03	2.99E-03
200	1.0 MI WSW - VISITORS CENTER	8/11/2008	279.9	3.74E-01	2.45E-02	3.41E-03	2.95E-03
200	1.0 MI WSW - VISITORS CENTER	8/18/2008	286.6	3.74E-01	1.79E-02	3.10E-03	3.13E-03
200	1.0 MI WSW - VISITORS CENTER	8/25/2008	284.3	3.74E-01	2.23E-02	3.29E-03	2.98E-03
200	1.0 MI WSW - VISITORS CENTER	9/1/2008	281.1	3.74E-01	1.27E-02	2.87E-03	3.24E-03
200	1.0 MI WSW - VISITORS CENTER	9/8/2008	284.8	3.74E-01	1.77E-02	3.09E-03	3.10E-03
200	1.0 MI WSW - VISITORS CENTER	9/15/2008	281.3	3.74E-01	1.09E-02	2.72E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	9/22/2008	278.7	3.74E-01	1.50E-02	2.98E-03	3.17E-03
200	1.0 MI WSW - VISITORS CENTER	9/29/2008	277.3	3.74E-01	1.75E-02	3.18E-03	3.31E-03
200	1.0 MI WSW - VISITORS CENTER	10/6/2008	280.4	3.74E-01	2.03E-02	3.28E-03	3.20E-03
200	1.0 MI WSW - VISITORS CENTER	10/13/2008	273.9	3.74E-01	2.44E-02	3.45E-03	2.98E-03
200	1.0 MI WSW - VISITORS CENTER	10/20/2008	281.8	3.74E-01	2.56E-02	3.46E-03	2.95E-03
200	1.0 MI WSW - VISITORS CENTER	10/27/2008	277.2	3.74E-01	1.52E-02	3.05E-03	3.29E-03
200	1.0 MI WSW - VISITORS CENTER	11/3/2008	280.9	3.74E-01	2.06E-02	3.21E-03	2.96E-03
200	1.0 MI WSW - VISITORS CENTER	11/10/2008	271.3	3.74E-01	1.63E-02	3.13E-03	3.28E-03
200	1.0 MI WSW - VISITORS CENTER	11/17/2008	275.7	3.74E-01	7.16E-03	2.59E-03	3.38E-03
200	1.0 MI WSW - VISITORS CENTER	11/24/2008	261.9	3.74E-01	1.88E-02	3.32E-03	3.35E-03
200	1.0 MI WSW - VISITORS CENTER	12/1/2008	276	3.74E-01	2.71E-02	3.62E-03	3.15E-03
200	1.0 MI WSW - VISITORS CENTER	12/8/2008	273.8	3.74E-01	2.09E-02	3.41E-03	3.41E-03
200	1.0 MI WSW - VISITORS CENTER	12/15/2008	265.3	3.74E-01	1.33E-02	3.06E-03	3.51E-03
200	1.0 MI WSW - VISITORS CENTER	12/22/2008	270.3	3.74E-01	1.58E-02	3.09E-03	3.27E-03
200	1.0 MI WSW - VISITORS CENTER	12/29/2008	269	3.74E-01	2.57E-02	3.60E-03	3.21E-03
201	0.5 MI NE - PMAC	1/7/2008	272.6	3.70E-01	2.92E-02	3.73E-03	3.06E-03
201	0.5 MI NE - PMAC	1/14/2008	293.6	3.70E-01	9.79E-03	2.67E-03	3.26E-03

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
201	0.5 MI NE - PMAC	1/21/2008	287.3	3.70E-01	1.65E-02	3.15E-03	3.42E-03
201	0.5 MI NE - PMAC	1/28/2008	285.3	3.70E-01	2.90E-02	3.75E-03	3.35E-03
201	0.5 MI NE - PMAC	2/4/2008	289.9	3.70E-01	2.52E-02	3.49E-03	3.18E-03
201	0.5 MI NE - PMAC	2/11/2008	292.3	3.70E-01	1.98E-02	3.29E-03	3.38E-03
201	0.5 MI NE - PMAC	2/18/2008	290.7	3.70E-01	2.22E-02	3.32E-03	3.12E-03
201	0.5 MI NE - PMAC	2/25/2008	286.9	3.70E-01	1.67E-02	2.93E-03	2.80E-03
201	0.5 MI NE - PMAC	3/3/2008	287.1	3.70E-01	1.82E-02	3.04E-03	2.88E-03
201	0.5 MI NE - PMAC	3/10/2008	289.8	3.70E-01	1.61E-02	2.90E-03	2.85E-03
201	0.5 MI NE - PMAC	3/17/2008	289.1	3.70E-01	2.11E-02	3.27E-03	3.14E-03
201	0.5 MI NE - PMAC	3/24/2008	284.3	3.70E-01	1.83E-02	3.08E-03	2.96E-03
201	0.5 MI NE - PMAC	3/31/2008	291.3	3.70E-01	2.20E-02	3.24E-03	2.91E-03
201	0.5 MI NE - PMAC	4/7/2008	276.4	3.70E-01	1.10E-02	2.72E-03	3.10E-03
201	0.5 MI NE - PMAC	4/14/2008	279.5	3.70E-01	7.06E-03	2.55E-03	3.32E-03
201	0.5 MI NE - PMAC	4/21/2008	277.4	3.70E-01	2.23E-02	3.34E-03	3.01E-03
201	0.5 MI NE - PMAC	4/28/2008	281	3.70E-01	2.11E-02	3.37E-03	3.31E-03
201	0.5 MI NE - PMAC	5/5/2008	281.6	3.70E-01	2.22E-02	3.35E-03	3.09E-03
201	0.5 MI NE - PMAC	5/12/2008	275.3	3.70E-01	2.03E-02	3.38E-03	3.40E-03
201	0.5 MI NE - PMAC	5/19/2008	285.4	3.70E-01	1.43E-02	2.90E-03	3.08E-03
201	0.5 MI NE - PMAC	5/27/2008	319	3.70E-01	1.99E-02	3.00E-03	2.80E-03
201	0.5 MI NE - PMAC	6/2/2008	247.7	3.70E-01	1.26E-02	3.25E-03	3.91E-03
201	0.5 MI NE - PMAC	6/9/2008	285.5	3.70E-01	1.74E-02	3.03E-03	2.97E-03
201	0.5 MI NE - PMAC	6/16/2008	288.8	3.70E-01	2.05E-02	3.29E-03	3.26E-03
201	0.5 MI NE - PMAC	6/23/2008	228.9	3.70E-01	1.33E-02	3.52E-03	4.26E-03
201	0.5 MI NE - PMAC	6/30/2008	289.8	3.74E-01	1.79E-02	3.12E-03	3.22E-03
201	0.5 MI NE - PMAC	7/7/2008	276.4	3.74E-01	1.45E-02	2.97E-03	3.20E-03
201	0.5 MI NE - PMAC	7/14/2008	259.2	3.74E-01	9.94E-03	2.75E-03	3.24E-03
201	0.5 MI NE - PMAC	7/21/2008	291.9	3.74E-01	1.11E-02	2.68E-03	3.10E-03

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Beta

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
201	0.5 MI NE - PMAC	7/28/2008	294.1	3.74E-01	2.55E-02	3.35E-03	2.80E-03
201	0.5 MI NE - PMAC	8/4/2008	291.2	3.74E-01	1.44E-02	2.80E-03	2.88E-03
201	0.5 MI NE - PMAC	8/11/2008	288.3	3.74E-01	2.08E-02	3.16E-03	2.86E-03
201	0.5 MI NE - PMAC	8/18/2008	297.2	3.74E-01	1.44E-02	2.84E-03	3.02E-03
201	0.5 MI NE - PMAC	8/25/2008	294.6	3.74E-01	1.79E-02	2.98E-03	2.88E-03
201	0.5 MI NE - PMAC	9/1/2008	277.9	3.74E-01	1.08E-02	2.78E-03	3.28E-03
201	0.5 MI NE - PMAC	9/8/2008	295.9	3.74E-01	1.86E-02	3.05E-03	2.99E-03
201	0.5 MI NE - PMAC	9/15/2008	294.2	3.74E-01	1.15E-02	2.68E-03	3.03E-03
201	0.5 MI NE - PMAC	9/22/2008	258.7	3.74E-01	1.36E-02	3.06E-03	3.42E-03
201	0.5 MI NE - PMAC	9/29/2008	289.7	3.74E-01	1.80E-02	3.12E-03	3.17E-03
201	0.5 MI NE - PMAC	10/6/2008	288.6	3.74E-01	2.13E-02	3.27E-03	3.11E-03
201	0.5 MI NE - PMAC	10/13/2008	284.3	3.74E-01	2.25E-02	3.26E-03	2.87E-03
201	0.5 MI NE - PMAC	10/20/2008	292.2	3.74E-01	2.50E-02	3.35E-03	2.85E-03
201	0.5 MI NE - PMAC	10/27/2008	287.2	3.74E-01	1.27E-02	2.82E-03	3.18E-03
201	0.5 MI NE - PMAC	11/3/2008	284.8	3.74E-01	1.93E-02	3.11E-03	2.92E-03
201	0.5 MI NE - PMAC	11/10/2008	288.5	3.74E-01	2.17E-02	3.28E-03	3.09E-03
201	0.5 MI NE - PMAC	11/17/2008	287.1	3.74E-01	1.30E-02	2.87E-03	3.25E-03
201	0.5 MI NE - PMAC	11/24/2008	275.9	3.74E-01	1.76E-02	3.14E-03	3.18E-03
201	0.5 MI NE - PMAC	12/1/2008	287.3	3.74E-01	2.54E-02	3.45E-03	3.03E-03
201	0.5 MI NE - PMAC	12/8/2008	284.8	3.74E-01	2.12E-02	3.34E-03	3.27E-03
201	0.5 MI NE - PMAC	12/15/2008	282.2	3.74E-01	1.46E-02	3.00E-03	3.30E-03
201	0.5 MI NE - PMAC	12/22/2008	288.6	3.74E-01	1.82E-02	3.09E-03	3.06E-03
201	0.5 MI NE - PMAC	12/29/2008	285.5	3.74E-01	2.49E-02	3.43E-03	3.02E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/7/2008	281.1	3.70E-01	3.01E-02	3.70E-03	2.97E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/14/2008	282	3.70E-01	9.15E-03	2.72E-03	3.39E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/21/2008	278.6	3.70E-01	1.63E-02	3.21E-03	3.53E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	1/28/2008	278.8	3.70E-01	3.06E-02	3.87E-03	3.43E-03

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/4/2008	277.3	3.70E-01	2.27E-02	3.47E-03	3.32E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/11/2008	281	3.70E-01	1.88E-02	3.33E-03	3.52E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/18/2008	280	3.70E-01	1.86E-02	3.22E-03	3.24E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	2/25/2008	278.2	3.70E-01	1.86E-02	3.10E-03	2.88E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/3/2008	278.3	3.70E-01	1.77E-02	3.07E-03	2.97E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/10/2008	278.1	3.70E-01	1.72E-02	3.05E-03	2.97E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/17/2008	278.4	3.70E-01	2.59E-02	3.60E-03	3.26E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/24/2008	277.8	3.70E-01	1.68E-02	3.05E-03	3.03E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	3/31/2008	279.6	3.70E-01	1.85E-02	3.14E-03	3.04E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/7/2008	273.5	3.70E-01	9.70E-03	2.66E-03	3.13E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/14/2008	274.9	3.70E-01	7.00E-03	2.59E-03	3.38E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/21/2008	276.1	3.70E-01	2.25E-02	3.36E-03	3.02E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	4/28/2008	278.1	3.70E-01	2.22E-02	3.45E-03	3.34E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/5/2008	270.9	3.70E-01	2.51E-02	3.58E-03	3.22E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/12/2008	281.5	3.70E-01	2.03E-02	3.33E-03	3.32E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/19/2008	280.1	3.70E-01	1.65E-02	3.06E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	5/27/2008	314.1	3.70E-01	2.12E-02	3.09E-03	2.84E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/2/2008	244.6	3.70E-01	1.36E-02	3.35E-03	3.96E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/9/2008	279.4	3.70E-01	1.64E-02	3.02E-03	3.04E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/16/2008	279.3	3.70E-01	1.94E-02	3.31E-03	3.37E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/23/2008	281.6	3.70E-01	1.53E-02	3.12E-03	3.47E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	6/30/2008	279.7	3.74E-01	2.14E-02	3.38E-03	3.33E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/7/2008	281.5	3.74E-01	1.44E-02	2.92E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/14/2008	281.6	3.74E-01	1.15E-02	2.69E-03	2.98E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/21/2008	278.4	3.74E-01	1.44E-02	2.98E-03	3.25E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	7/28/2008	289.2	3.74E-01	2.77E-02	3.49E-03	2.85E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/4/2008	279.7	3.74E-01	1.61E-02	2.98E-03	3.00E-03



# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/11/2008	279.5	3.74E-01	2.55E-02	3.46E-03	2.95E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/18/2008	285.4	3.74E-01	2.15E-02	3.30E-03	3.15E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	8/25/2008	284.3	3.74E-01	2.38E-02	3.37E-03	2.98E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/1/2008	281.3	3.74E-01	1.49E-02	3.00E-03	3.24E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/8/2008	285.2	3.74E-01	2.20E-02	3.31E-03	3.10E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/15/2008	283.7	3.74E-01	1.24E-02	2.80E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/22/2008	280.1	3.74E-01	1.52E-02	2.98E-03	3.16E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	9/29/2008	278.5	3.74E-01	2.03E-02	3.32E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/6/2008	281.8	3.74E-01	2.48E-02	3.50E-03	3.19E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/13/2008	274.8	3.74E-01	2.76E-02	3.60E-03	2.97E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/20/2008	281.9	3.74E-01	2.64E-02	3.50E-03	2.95E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	10/27/2008	277.4	3.74E-01	1.57E-02	3.07E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/3/2008	281.2	3.74E-01	1.87E-02	3.10E-03	2.96E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/10/2008	270.3	3.74E-01	1.81E-02	3.23E-03	3.30E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/17/2008	277.7	3.74E-01	1.30E-02	2.94E-03	3.36E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	11/24/2008	266.3	3.74E-01	1.74E-02	3.21E-03	3.29E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/1/2008	277.2	3.74E-01	2.95E-02	3.73E-03	3.14E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/8/2008	273.8	3.74E-01	2.17E-02	3.45E-03	3.41E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/15/2008	269.8	3.74E-01	1.55E-02	3.15E-03	3.46E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/22/2008	275.3	3.74E-01	2.06E-02	3.32E-03	3.21E-03
202	1.0 MI S - SUBSTATION ON CONSTRUCTION R	12/29/2008	273.1	3.74E-01	2.77E-02	3.67E-03	3.16E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/7/2008	266.5	3.70E-01	3.02E-02	3.83E-03	3.13E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/14/2008	289.4	3.70E-01	9.42E-03	2.68E-03	3.30E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/21/2008	288.6	3.70E-01	1.93E-02	3.28E-03	3.40E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	1/28/2008	288.5	3.70E-01	2.89E-02	3.72E-03	3.31E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/4/2008	287.5	3.70E-01	2.97E-02	3.72E-03	3.21E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/11/2008	289.7	3.70E-01	1.71E-02	3.17E-03	3.41E-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	2/18/2008	289.9	3.70E-01	1.86E-02	3.14E-03	3.13E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	2/25/2008	286.2	3.70E-01	1.68E-02	2.93E-03	2.80E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/3/2008	288.9	3.70E-01	2.27E-02	3.26E-03	2.86E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/10/2008	285.9	3.70E-01	1.84E-02	3.06E-03	2.89E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/17/2008	286.9	3.70E-01	2.22E-02	3.35E-03	3.16E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/24/2008	285.6	3.70E-01	1.81E-02	3.06E-03	2.95E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	3/31/2008	285.6	3.70E-01	2.24E-02	3.30E-03	2.97E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/7/2008	282.1	3.70E-01	1.19E-02	2.74E-03	3.04E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/14/2008	283.8	3.70E-01	9.69E-03	2.70E-03	3.27E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/21/2008	283.4	3.70E-01	2.26E-02	3.31E-03	2.94E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	4/28/2008	284.3	3.70E-01	2.12E-02	3.34E-03	3.27E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/5/2008	278.2	3.70E-01	2.03E-02	3.27E-03	3.13E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/12/2008	290.5	3.70E-01	1.76E-02	3.12E-03	3.22E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	288.2	3.70E-01	1.61E-02	2.98E-03	3.05E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	5/27/2008	322.2	3.70E-01	2.24E-02	3.10E-03	2.77E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/2/2008	252	3.70E-01	1.45E-02	3.32E-03	3.85E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/9/2008	288	3.70E-01	1.24E-02	2.72E-03	2.95E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/16/2008	290.5	3.70E-01	2.25E-02	3.38E-03	3.24E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/23/2008	296.6	3.70E-01	1.46E-02	2.96E-03	3.29E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	6/30/2008	291.9	3.74E-01	1.91E-02	3.17E-03	3.19E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/7/2008	295	3.74E-01	1.40E-02	2.80E-03	3.00E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/14/2008	295.1	3.74E-01	1.13E-02	2.58E-03	2.85E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/21/2008	293.6	3.74E-01	1.26E-02	2.76E-03	3.08E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	7/28/2008	302.8	3.74E-01	2.41E-02	3.23E-03	2.72E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/4/2008	292.8	3.74E-01	1.57E-02	2.86E-03	2.87E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/11/2008	292.6	3.74E-01	2.26E-02	3.22E-03	2.82E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	299.6	3.74E-01	1.90E-02	3.07E-03	3.00E-03

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	8/25/2008	296.1	3.74E-01	2.17E-02	3.18E-03	2.86E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/1/2008	293.6	3.74E-01	1.25E-02	2.77E-03	3.11E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/8/2008	297.7	3.74E-01	1.83E-02	3.03E-03	2.97E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/15/2008	296	3.74E-01	9.85E-03	2.56E-03	3.01E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/22/2008	291.7	3.74E-01	1.36E-02	2.81E-03	3.03E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	9/29/2008	289.3	3.74E-01	1.72E-02	3.08E-03	3.18E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/6/2008	294.3	3.74E-01	2.55E-02	3.43E-03	3.05E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/13/2008	286.6	3.74E-01	2.11E-02	3.18E-03	2.85E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/20/2008	294.3	3.74E-01	2.62E-02	3.39E-03	2.83E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/27/2008	290	3.74E-01	1.48E-02	2.92E-03	3.14E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/3/2008	290.7	3.74E-01	2.17E-02	3.20E-03	2.86E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/10/2008	283	3.74E-01	2.12E-02	3.30E-03	3.15E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	287.6	3.74E-01	1.07E-02	2.73E-03	3.24E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/24/2008	275.1	3.74E-01	1.82E-02	3.18E-03	3.19E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/1/2008	287.6	3.74E-01	2.80E-02	3.57E-03	3.02E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/8/2008	284.5	3.74E-01	2.13E-02	3.34E-03	3.28E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/15/2008	277.8	3.74E-01	1.51E-02	3.06E-03	3.36E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/22/2008	286	3.74E-01	1.59E-02	2.98E-03	3.09E-03
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/29/2008	283.6	3.74E-01	2.62E-02	3.51E-03	3.04E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/7/2008	271.8	3.70E-01	2.83E-02	3.69E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/14/2008	282.3	3.70E-01	9.66E-03	2.75E-03	3.39E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/21/2008	271.6	3.70E-01	2.13E-02	3.53E-03	3.62E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/28/2008	274.6	3.70E-01	3.00E-02	3.89E-03	3.48E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/4/2008	277.3	3.70E-01	2.72E-02	3.69E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/11/2008	278.1	3.70E-01	1.92E-02	3.37E-03	3.56E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	277.1	3.70E-01	2.09E-02	3.36E-03	3.28E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/25/2008	277.1	3.70E-01	1.57E-02	2.94E-03	2.90E-03

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/3/2008	276.1	3.70E-01	1.73E-02	3.07E-03	2.99E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/10/2008	277.1	3.70E-01	1.72E-02	3.05E-03	2.98E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/17/2008	277.2	3.70E-01	2.43E-02	3.54E-03	3.27E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/24/2008	278.7	3.70E-01	1.91E-02	3.17E-03	3.02E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/31/2008	276.6	3.70E-01	2.20E-02	3.35E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/7/2008	283.1	3.70E-01	1.14E-02	2.70E-03	3.03E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/14/2008	278.5	3.70E-01	8.83E-03	2.68E-03	3.33E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/21/2008	279.5	3.70E-01	1.80E-02	3.09E-03	2.98E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	4/28/2008	277	3.70E-01	1.97E-02	3.33E-03	3.35E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/5/2008	276.2	3.70E-01	2.19E-02	3.37E-03	3.16E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/12/2008	278.4	3.70E-01	2.10E-02	3.39E-03	3.36E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	275.8	3.70E-01	1.02E-02	2.71E-03	3.19E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	5/27/2008	315.3	3.70E-01	1.97E-02	3.01E-03	2.83E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/2/2008	236.6	3.70E-01	1.37E-02	3.44E-03	4.10E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/9/2008	277.4	3.70E-01	1.81E-02	3.13E-03	3.06E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/16/2008	277.9	3.70E-01	2.40E-02	3.56E-03	3.39E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/23/2008	274.8	3.70E-01	1.41E-02	3.10E-03	3.55E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	6/30/2008	272.1	3.74E-01	2.02E-02	3.39E-03	3.43E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/7/2008	272.4	3.74E-01	1.63E-02	3.10E-03	3.24E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/14/2008	272.3	3.74E-01	1.12E-02	2.74E-03	3.08E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/21/2008	272.9	3.74E-01	1.49E-02	3.05E-03	3.32E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	7/28/2008	270.3	3.74E-01	2.75E-02	3.64E-03	3.05E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/4/2008	266.1	3.74E-01	1.60E-02	3.08E-03	3.16E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/11/2008	259.1	3.74E-01	2.47E-02	3.60E-03	3.18E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	360.4	3.74E-01	1.48E-02	2.50E-03	2.49E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	8/25/2008	321.1	3.74E-01	1.96E-02	2.91E-03	2.64E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/1/2008	298.7	3.74E-01	9.92E-03	2.58E-03	3.05E-03

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Activity: pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/8/2008	289.6	3.74E-01	2.11E-02	3.23E-03	3.05E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/15/2008	291.2	3.74E-01	1.07E-02	2.64E-03	3.06E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/22/2008	287.5	3.74E-01	1.47E-02	2.90E-03	3.07E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	9/29/2008	283.9	3.74E-01	1.60E-02	3.05E-03	3.24E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/6/2008	283.7	3.74E-01	1.95E-02	3.21E-03	3.17E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/13/2008	280.9	3.74E-01	2.09E-02	3.21E-03	2.91E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/20/2008	278.3	3.74E-01	1.96E-02	3.18E-03	2.99E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	10/27/2008	275.8	3.74E-01	1.35E-02	2.96E-03	3.31E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/3/2008	276.5	3.74E-01	2.02E-02	3.22E-03	3.01E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/10/2008	269	3.74E-01	2.00E-02	3.35E-03	3.31E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	270.6	3.74E-01	1.30E-02	3.00E-03	3.45E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	11/24/2008	267.7	3.74E-01	1.59E-02	3.11E-03	3.27E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/1/2008	263.8	3.74E-01	3.09E-02	3.91E-03	3.30E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/8/2008	264.6	3.74E-01	1.74E-02	3.30E-03	3.52E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/15/2008	265	3.74E-01	1.32E-02	3.06E-03	3.52E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/22/2008	267.6	3.74E-01	1.45E-02	3.04E-03	3.30E-03
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	12/29/2008	296.3	3.74E-01	2.49E-02	3.35E-03	2.91E-03
205	0.6 MI SSE - SPOIL POND	1/7/2008	254.7	3.70E-01	3.33E-02	4.08E-03	3.27E-03
205	0.6 MI SSE - SPOIL POND	1/14/2008	304.3	3.70E-01	8.80E-03	2.54E-03	3.14E-03
205	0.6 MI SSE - SPOIL POND	1/21/2008	307.4	3.70E-01	1.61E-02	2.98E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	1/28/2008	273.6	3.70E-01	3.12E-02	3.95E-03	3.49E-03
205	0.6 MI SSE - SPOIL POND	2/4/2008	275.9	3.70E-01	2.89E-02	3.79E-03	3.34E-03
205	0.6 MI SSE - SPOIL POND	2/11/2008	283	3.70E-01	1.81E-02	3.27E-03	3.50E-03
205	0.6 MI SSE - SPOIL POND	2/18/2008	278.7	3.70E-01	1.88E-02	3.24E-03	3.26E-03
205	0.6 MI SSE - SPOIL POND	2/25/2008	277.5	3.70E-01	1.61E-02	2.96E-03	2.89E-03
205	0.6 MI SSE - SPOIL POND	3/3/2008	275.4	3.70E-01	1.89E-02	3.16E-03	3.00E-03
205	0.6 MI SSE - SPOIL POND	3/10/2008	276.5	3.70E-01	1.71E-02	3.05E-03	2.99E-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	3/17/2008	277.9	3.70E-01	2.20E-02	3.41E-03	3.27E-03
205	0.6 MI SSE - SPOIL POND	3/24/2008	275.3	3.70E-01	1.93E-02	3.20E-03	3.06E-03
205	0.6 MI SSE - SPOIL POND	3/31/2008	277.9	3.70E-01	2.00E-02	3.23E-03	3.06E-03
205	0.6 MI SSE - SPOIL POND	4/7/2008	281.3	3.70E-01	1.09E-02	2.68E-03	3.05E-03
205	0.6 MI SSE - SPOIL POND	4/14/2008	283.5	3.70E-01	6.87E-03	2.51E-03	3.28E-03
205	0.6 MI SSE - SPOIL POND	4/21/2008	281.4	3.70E-01	2.37E-02	3.38E-03	2.96E-03
205	0.6 MI SSE - SPOIL POND	4/28/2008	287.7	3.70E-01	2.01E-02	3.26E-03	3.23E-03
205	0.6 MI SSE - SPOIL POND	5/5/2008	279.4	3.70E-01	2.75E-02	3.63E-03	3.12E-03
205	0.6 MI SSE - SPOIL POND	5/12/2008	291.5	3.70E-01	1.65E-02	3.05E-03	3.21E-03
205	0.6 MI SSE - SPOIL POND	5/19/2008	290.1	3.70E-01	1.64E-02	2.98E-03	3.03E-03
205	0.6 MI SSE - SPOIL POND	5/27/2008	326.4	3.70E-01	2.10E-02	3.00E-03	2.74E-03
205	0.6 MI SSE - SPOIL POND	6/2/2008	254.6	3.70E-01	1.19E-02	3.14E-03	3.81E-03
205	0.6 MI SSE - SPOIL POND	6/9/2008	291.6	3.70E-01	1.33E-02	2.75E-03	2.91E-03
205	0.6 MI SSE - SPOIL POND	6/16/2008	291.8	3.70E-01	2.00E-02	3.24E-03	3.23E-03
205	0.6 MI SSE - SPOIL POND	6/23/2008	293.1	3.70E-01	1.60E-02	3.07E-03	3.33E-03
205	0.6 MI SSE - SPOIL POND	6/30/2008	292.7	3.74E-01	1.92E-02	3.17E-03	3.19E-03
205	0.6 MI SSE - SPOIL POND	7/7/2008	293.7	3.74E-01	1.35E-02	2.79E-03	3.01E-03
205	0.6 MI SSE - SPOIL POND	7/14/2008	294.3	3.74E-01	1.26E-02	2.67E-03	2.85E-03
205	0.6 MI SSE - SPOIL POND	7/21/2008	290.1	3.74E-01	1.28E-02	2.80E-03	3.12E-03
205	0.6 MI SSE - SPOIL POND	7/28/2008	301.5	3.74E-01	2.82E-02	3.43E-03	2.74E-03
205	0.6 MI SSE - SPOIL POND	8/4/2008	292.8	3.74E-01	1.44E-02	2.79E-03	2.87E-03
205	0.6 MI SSE - SPOIL POND	8/11/2008	291.5	3.74E-01	2.49E-02	3.34E-03	2.83E-03
205	0.6 MI SSE - SPOIL POND	8/18/2008	295.4	3.74E-01	2.08E-02	3.19E-03	3.04E-03
205	0.6 MI SSE - SPOIL POND	8/25/2008	294.7	3.74E-01	2.08E-02	3.14E-03	2.88E-03
205	0.6 MI SSE - SPOIL POND	9/1/2008	292.3	3.74E-01	1.34E-02	2.83E-03	3.12E-03
205	0.6 MI SSE - SPOIL POND	9/8/2008	295.9	3.74E-01	2.18E-02	3.22E-03	2.99E-03
205	0.6 MI SSE - SPOIL POND	9/15/2008	294.4	3.74E-01	1.04E-02	2.60E-03	3.03E-03

# ***BSEP Radiological Environmental Monitoring Analysis Report***

*Media Type: Air Particulate*

*Quantity: cubic meters*

*Activity: pCi/cubic meter*

*Analysis: Beta*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>	
205	0.6 MI SSE - SPOIL POND	9/22/2008	287	3.74E-01	1.59E-02	2.97E-03	3.08E-03
205	0.6 MI SSE - SPOIL POND	9/29/2008	286.9	3.74E-01	1.96E-02	3.22E-03	3.20E-03
205	0.6 MI SSE - SPOIL POND	10/6/2008	290.9	3.74E-01	2.69E-02	3.52E-03	3.09E-03
205	0.6 MI SSE - SPOIL POND	10/13/2008	281.4	3.74E-01	2.30E-02	3.32E-03	2.90E-03
205	0.6 MI SSE - SPOIL POND	10/20/2008	290.1	3.74E-01	2.72E-02	3.47E-03	2.87E-03
205	0.6 MI SSE - SPOIL POND	10/27/2008	281.2	3.74E-01	1.36E-02	2.92E-03	3.24E-03
205	0.6 MI SSE - SPOIL POND	11/3/2008	280.5	3.74E-01	2.25E-02	3.31E-03	2.97E-03
205	0.6 MI SSE - SPOIL POND	11/10/2008	276.7	3.74E-01	1.90E-02	3.23E-03	3.22E-03
205	0.6 MI SSE - SPOIL POND	11/17/2008	283.9	3.74E-01	1.10E-02	2.78E-03	3.28E-03
205	0.6 MI SSE - SPOIL POND	11/24/2008	258.8	3.74E-01	2.12E-02	3.48E-03	3.39E-03
205	0.6 MI SSE - SPOIL POND	12/1/2008	274.5	3.74E-01	2.98E-02	3.76E-03	3.17E-03
205	0.6 MI SSE - SPOIL POND	12/8/2008	262	3.74E-01	2.43E-02	3.69E-03	3.56E-03
205	0.6 MI SSE - SPOIL POND	12/15/2008	289.5	3.74E-01	1.41E-02	2.92E-03	3.22E-03
205	0.6 MI SSE - SPOIL POND	12/22/2008	305.2	3.74E-01	1.59E-02	2.85E-03	2.90E-03
205	0.6 MI SSE - SPOIL POND	12/29/2008	296.8	3.74E-01	2.54E-02	3.37E-03	2.91E-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	1/7/2008	257.4	<LLD	2.35E-02
200 1.0 MI WSW - VISITORS CENTER	1/14/2008	299.0	<LLD	2.05E-02
200 1.0 MI WSW - VISITORS CENTER	1/21/2008	294.8	<LLD	2.28E-02
200 1.0 MI WSW - VISITORS CENTER	1/28/2008	295.1	<LLD	2.35E-02
200 1.0 MI WSW - VISITORS CENTER	2/4/2008	295.9	<LLD	2.11E-02
200 1.0 MI WSW - VISITORS CENTER	2/11/2008	269.8	<LLD	1.84E-02
200 1.0 MI WSW - VISITORS CENTER	2/18/2008	291.9	<LLD	2.36E-02
200 1.0 MI WSW - VISITORS CENTER	2/25/2008	290.4	<LLD	1.84E-02
200 1.0 MI WSW - VISITORS CENTER	3/3/2008	281.9	<LLD	2.45E-02
200 1.0 MI WSW - VISITORS CENTER	3/10/2008	291.4	<LLD	2.27E-02
200 1.0 MI WSW - VISITORS CENTER	3/17/2008	293.7	<LLD	2.31E-02
200 1.0 MI WSW - VISITORS CENTER	3/24/2008	274.8	<LLD	1.67E-02
200 1.0 MI WSW - VISITORS CENTER	3/31/2008	278.3	<LLD	2.25E-02
200 1.0 MI WSW - VISITORS CENTER	4/7/2008	276.5	<LLD	2.51E-02
200 1.0 MI WSW - VISITORS CENTER	4/14/2008	279.3	<LLD	2.20E-02
200 1.0 MI WSW - VISITORS CENTER	4/21/2008	280.8	<LLD	2.41E-02
200 1.0 MI WSW - VISITORS CENTER	4/28/2008	281.3	<LLD	2.11E-02
200 1.0 MI WSW - VISITORS CENTER	5/5/2008	276.2	<LLD	3.77E-02
200 1.0 MI WSW - VISITORS CENTER	5/12/2008	283.5	<LLD	2.17E-02
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	283.5	<LLD	1.98E-02
200 1.0 MI WSW - VISITORS CENTER	5/27/2008	317.4	<LLD	2.32E-02
200 1.0 MI WSW - VISITORS CENTER	6/2/2008	246.2	<LLD	1.44E-02



# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
200 1.0 MI WSW - VISITORS CENTER	6/9/2008	281.2	<LLD	2.84E-02
200 1.0 MI WSW - VISITORS CENTER	6/16/2008	279.8	<LLD	2.46E-02
200 1.0 MI WSW - VISITORS CENTER	6/23/2008	282.0	<LLD	2.03E-02
200 1.0 MI WSW - VISITORS CENTER	6/30/2008	280.8	<LLD	2.24E-02
200 1.0 MI WSW - VISITORS CENTER	7/7/2008	282.7	<LLD	2.87E-02
200 1.0 MI WSW - VISITORS CENTER	7/14/2008	283.0	<LLD	2.94E-02
200 1.0 MI WSW - VISITORS CENTER	7/21/2008	282.1	<LLD	3.15E-02
200 1.0 MI WSW - VISITORS CENTER	7/28/2008	288.9	<LLD	2.65E-02
200 1.0 MI WSW - VISITORS CENTER	8/4/2008	280.6	<LLD	2.46E-02
200 1.0 MI WSW - VISITORS CENTER	8/11/2008	279.9	<LLD	3.02E-02
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	286.6	<LLD	2.78E-02
200 1.0 MI WSW - VISITORS CENTER	8/25/2008	284.3	<LLD	1.70E-02
200 1.0 MI WSW - VISITORS CENTER	9/1/2008	281.1	<LLD	2.17E-02
200 1.0 MI WSW - VISITORS CENTER	9/8/2008	284.8	<LLD	3.18E-02
200 1.0 MI WSW - VISITORS CENTER	9/15/2008	281.3	<LLD	3.35E-02
200 1.0 MI WSW - VISITORS CENTER	9/22/2008	278.7	<LLD	2.23E-02
200 1.0 MI WSW - VISITORS CENTER	9/29/2008	277.3	<LLD	2.79E-02
200 1.0 MI WSW - VISITORS CENTER	10/6/2008	280.4	<LLD	2.01E-02
200 1.0 MI WSW - VISITORS CENTER	10/13/2008	273.9	<LLD	2.72E-02
200 1.0 MI WSW - VISITORS CENTER	10/20/2008	281.8	<LLD	2.39E-02
200 1.0 MI WSW - VISITORS CENTER	10/27/2008	277.2	<LLD	2.67E-02
200 1.0 MI WSW - VISITORS CENTER	11/3/2008	280.9	<LLD	1.84E-02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		Sample Date	Quantity	Activity	LLD
200	1.0 MI WSW - VISITORS CENTER	11/10/2008	271.3	<LLD	2.41E-02
200	1.0 MI WSW - VISITORS CENTER	11/17/2008	275.7	<LLD	2.64E-02
200	1.0 MI WSW - VISITORS CENTER	11/24/2008	261.9	<LLD	2.25E-02
200	1.0 MI WSW - VISITORS CENTER	12/1/2008	276.0	<LLD	2.45E-02
200	1.0 MI WSW - VISITORS CENTER	12/8/2008	273.8	<LLD	2.83E-02
200	1.0 MI WSW - VISITORS CENTER	12/15/2008	265.3	<LLD	2.31E-02
200	1.0 MI WSW - VISITORS CENTER	12/22/2008	270.3	<LLD	2.38E-02
200	1.0 MI WSW - VISITORS CENTER	12/29/2008	269.0	<LLD	2.59E-02
201	0.5 MI NE - PMAC	1/7/2008	272.6	<LLD	1.97E-02
201	0.5 MI NE - PMAC	1/14/2008	293.6	<LLD	1.71E-02
201	0.5 MI NE - PMAC	1/21/2008	287.3	<LLD	2.09E-02
201	0.5 MI NE - PMAC	1/28/2008	285.3	<LLD	1.86E-02
201	0.5 MI NE - PMAC	2/4/2008	289.9	<LLD	1.54E-02
201	0.5 MI NE - PMAC	2/11/2008	292.3	<LLD	2.14E-02
201	0.5 MI NE - PMAC	2/18/2008	290.7	<LLD	1.96E-02
201	0.5 MI NE - PMAC	2/25/2008	286.9	<LLD	2.53E-02
201	0.5 MI NE - PMAC	3/3/2008	287.1	<LLD	2.31E-02
201	0.5 MI NE - PMAC	3/10/2008	289.8	<LLD	1.34E-02
201	0.5 MI NE - PMAC	3/17/2008	289.1	<LLD	2.00E-02
201	0.5 MI NE - PMAC	3/24/2008	284.3	<LLD	1.47E-02
201	0.5 MI NE - PMAC	3/31/2008	291.3	<LLD	1.51E-02
201	0.5 MI NE - PMAC	4/7/2008	276.4	<LLD	2.07E-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	4/14/2008	279.5	<LLD	2.22E-02
201 0.5 MI NE - PMAC	4/21/2008	277.4	<LLD	2.26E-02
201 0.5 MI NE - PMAC	4/28/2008	281.0	<LLD	2.06E-02
201 0.5 MI NE - PMAC	5/5/2008	281.6	<LLD	3.49E-02
201 0.5 MI NE - PMAC	5/12/2008	275.3	<LLD	1.83E-02
201 0.5 MI NE - PMAC	5/19/2008	285.4	<LLD	2.78E-02
201 0.5 MI NE - PMAC	5/27/2008	319.0	<LLD	1.52E-02
201 0.5 MI NE - PMAC	6/2/2008	247.7	<LLD	3.51E-02
201 0.5 MI NE - PMAC	6/9/2008	285.5	<LLD	2.21E-02
201 0.5 MI NE - PMAC	6/16/2008	288.8	<LLD	2.14E-02
201 0.5 MI NE - PMAC	6/23/2008	228.9	<LLD	2.25E-02
201 0.5 MI NE - PMAC	6/30/2008	289.8	<LLD	3.32E-02
201 0.5 MI NE - PMAC	7/7/2008	276.4	<LLD	2.92E-02
201 0.5 MI NE - PMAC	7/14/2008	259.2	<LLD	2.60E-02
201 0.5 MI NE - PMAC	7/21/2008	291.9	<LLD	2.68E-02
201 0.5 MI NE - PMAC	7/28/2008	294.1	<LLD	1.80E-02
201 0.5 MI NE - PMAC	8/4/2008	291.2	<LLD	2.26E-02
201 0.5 MI NE - PMAC	8/11/2008	288.3	<LLD	2.61E-02
201 0.5 MI NE - PMAC	8/18/2008	297.2	<LLD	1.70E-02
201 0.5 MI NE - PMAC	8/25/2008	294.6	<LLD	1.65E-02
201 0.5 MI NE - PMAC	9/1/2008	277.9	<LLD	2.96E-02
201 0.5 MI NE - PMAC	9/8/2008	295.9	<LLD	2.21E-02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
201 0.5 MI NE - PMAC	9/15/2008	294.2	<LLD	2.43E-02
201 0.5 MI NE - PMAC	9/22/2008	258.7	<LLD	1.87E-02
201 0.5 MI NE - PMAC	9/29/2008	289.7	<LLD	1.90E-02
201 0.5 MI NE - PMAC	10/6/2008	288.6	<LLD	2.85E-02
201 0.5 MI NE - PMAC	10/13/2008	284.3	<LLD	1.75E-02
201 0.5 MI NE - PMAC	10/20/2008	292.2	<LLD	2.09E-02
201 0.5 MI NE - PMAC	10/27/2008	287.2	<LLD	1.76E-02
201 0.5 MI NE - PMAC	11/3/2008	284.8	<LLD	1.55E-02
201 0.5 MI NE - PMAC	11/10/2008	288.5	<LLD	2.21E-02
201 0.5 MI NE - PMAC	11/17/2008	287.1	<LLD	2.00E-02
201 0.5 MI NE - PMAC	11/24/2008	275.9	<LLD	2.37E-02
201 0.5 MI NE - PMAC	12/1/2008	287.3	<LLD	1.48E-02
201 0.5 MI NE - PMAC	12/8/2008	284.8	<LLD	1.94E-02
201 0.5 MI NE - PMAC	12/15/2008	282.2	<LLD	1.78E-02
201 0.5 MI NE - PMAC	12/22/2008	288.6	<LLD	3.74E-02
201 0.5 MI NE - PMAC	12/29/2008	285.5	<LLD	3.35E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/7/2008	281.1	<LLD	2.09E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/14/2008	282.0	<LLD	1.97E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/21/2008	278.6	<LLD	1.59E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	1/28/2008	278.8	<LLD	1.88E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/4/2008	277.3	<LLD	1.64E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/11/2008	281.0	<LLD	1.96E-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>
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/18/2008	280.0	<LLD	1.73E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/25/2008	278.2	<LLD	1.94E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/3/2008	278.3	<LLD	2.35E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/10/2008	278.1	<LLD	1.81E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/17/2008	278.4	<LLD	1.90E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/24/2008	277.8	<LLD	1.77E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	3/31/2008	279.6	<LLD	1.80E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/7/2008	273.5	<LLD	2.49E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/14/2008	274.9	<LLD	2.24E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/21/2008	276.1	<LLD	1.84E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	4/28/2008	278.1	<LLD	1.58E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/5/2008	270.9	<LLD	2.28E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/12/2008	281.5	<LLD	3.14E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/19/2008	280.1	<LLD	2.09E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/27/2008	314.1	<LLD	3.64E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/2/2008	244.6	<LLD	2.47E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/9/2008	279.4	<LLD	3.19E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/16/2008	279.3	<LLD	2.89E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/23/2008	281.6	<LLD	2.94E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	6/30/2008	279.7	<LLD	2.77E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/7/2008	281.5	<LLD	3.12E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/14/2008	281.6	<LLD	1.85E-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>
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/21/2008	278.4	<LLD	3.58E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	7/28/2008	289.2	<LLD	2.67E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/4/2008	279.7	<LLD	3.44E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/11/2008	279.5	<LLD	3.10E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/18/2008	285.4	<LLD	2.15E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/25/2008	284.3	<LLD	3.25E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/1/2008	281.3	<LLD	1.80E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/8/2008	285.2	<LLD	1.99E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/15/2008	283.7	<LLD	2.93E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/22/2008	280.1	<LLD	1.73E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	9/29/2008	278.5	<LLD	2.89E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/6/2008	281.8	<LLD	1.65E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/13/2008	274.8	<LLD	1.95E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/20/2008	281.9	<LLD	1.77E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	10/27/2008	277.4	<LLD	1.93E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/3/2008	281.2	<LLD	2.78E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/10/2008	270.3	<LLD	2.21E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	277.7	<LLD	1.67E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/24/2008	266.3	<LLD	3.49E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/1/2008	277.2	<LLD	3.00E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/8/2008	273.8	<LLD	2.48E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/15/2008	269.8	<LLD	2.93E-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>
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/22/2008	275.3	<LLD	3.80E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	12/29/2008	273.1	<LLD	4.35E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/7/2008	266.5	<LLD	3.87E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/14/2008	289.4	<LLD	3.60E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/21/2008	288.6	<LLD	3.67E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	1/28/2008	288.5	<LLD	2.94E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/4/2008	287.5	<LLD	2.60E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/11/2008	289.7	<LLD	3.07E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	289.9	<LLD	2.73E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/25/2008	286.2	<LLD	3.50E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/3/2008	288.9	<LLD	2.45E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/10/2008	285.9	<LLD	3.01E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/17/2008	286.9	<LLD	2.73E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/24/2008	285.6	<LLD	1.48E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	3/31/2008	285.6	<LLD	3.90E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/7/2008	282.1	<LLD	2.10E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/14/2008	283.8	<LLD	2.94E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/21/2008	283.4	<LLD	3.58E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	4/28/2008	284.3	<LLD	3.13E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/5/2008	278.2	<LLD	2.45E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/12/2008	290.5	<LLD	1.77E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	288.2	<LLD	3.08E-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	5/27/2008	322.2	<LLD	2.15E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/2/2008	252.0	<LLD	2.22E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/9/2008	288.0	<LLD	2.61E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/16/2008	290.5	<LLD	2.21E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/23/2008	296.6	<LLD	2.76E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	6/30/2008	291.9	<LLD	1.68E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/7/2008	295.0	<LLD	3.21E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/14/2008	295.1	<LLD	1.60E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/21/2008	293.6	<LLD	2.51E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	7/28/2008	302.8	<LLD	2.32E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/4/2008	292.8	<LLD	2.24E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/11/2008	292.6	<LLD	1.80E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	299.6	<LLD	2.00E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/25/2008	296.1	<LLD	2.39E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/1/2008	293.6	<LLD	3.49E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/8/2008	297.7	<LLD	2.97E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/15/2008	296.0	<LLD	2.44E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/22/2008	291.7	<LLD	2.77E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	9/29/2008	289.3	<LLD	2.57E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/6/2008	294.3	<LLD	2.10E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/13/2008	286.6	<LLD	3.49E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	10/20/2008	294.3	<LLD	3.11E-02



# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>	
203	2.0 MI SSW - SOUTHPORT SUBSTATION	10/27/2008	290.0	<LLD	2.94E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/3/2008	290.7	<LLD	2.61E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/10/2008	283.0	<LLD	3.31E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	287.6	<LLD	2.97E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	11/24/2008	275.1	<LLD	3.01E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/1/2008	287.6	<LLD	2.17E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/8/2008	284.5	<LLD	1.56E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/15/2008	277.8	<LLD	2.31E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/22/2008	286.0	<LLD	2.20E-02
203	2.0 MI SSW - SOUTHPORT SUBSTATION	12/29/2008	283.6	<LLD	2.96E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/7/2008	271.8	<LLD	2.43E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/14/2008	282.3	<LLD	2.26E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/21/2008	271.6	<LLD	2.48E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	1/28/2008	274.6	<LLD	2.31E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/4/2008	277.3	<LLD	2.06E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/11/2008	278.1	<LLD	1.79E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	277.1	<LLD	1.92E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	2/25/2008	277.1	<LLD	2.65E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/3/2008	276.1	<LLD	2.09E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/10/2008	277.1	<LLD	2.73E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/17/2008	277.2	<LLD	2.09E-02
204	22.4 MI NNE - SUTTON PLANT (CONTROL)	3/24/2008	278.7	<LLD	1.86E-02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	3/31/2008	276.6	<LLD	2.26E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/7/2008	283.1	<LLD	2.12E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/14/2008	278.5	<LLD	2.41E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/21/2008	279.5	<LLD	2.58E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	4/28/2008	277.0	<LLD	2.95E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/5/2008	276.2	<LLD	4.18E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/12/2008	278.4	<LLD	1.53E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	275.8	<LLD	1.87E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/27/2008	315.3	<LLD	1.52E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/2/2008	236.6	<LLD	4.08E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/9/2008	277.4	<LLD	2.01E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/16/2008	277.9	<LLD	9.86E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/23/2008	274.8	<LLD	1.79E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	6/30/2008	272.1	<LLD	3.00E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/7/2008	272.4	<LLD	2.32E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/14/2008	272.3	<LLD	4.26E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/21/2008	272.9	<LLD	3.44E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	7/28/2008	270.3	<LLD	2.09E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/4/2008	266.1	<LLD	2.48E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/11/2008	259.1	<LLD	3.01E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	360.4	<LLD	1.93E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/25/2008	321.1	<LLD	1.99E-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>
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/1/2008	298.7	<LLD	3.73E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/8/2008	289.6	<LLD	2.30E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/15/2008	291.2	<LLD	1.64E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/22/2008	287.5	<LLD	2.42E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	9/29/2008	283.9	<LLD	1.91E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/6/2008	283.7	<LLD	2.34E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/13/2008	280.9	<LLD	2.78E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/20/2008	278.3	<LLD	2.31E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	10/27/2008	275.8	<LLD	2.87E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/3/2008	276.5	<LLD	2.35E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/10/2008	269.0	<LLD	2.70E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	270.6	<LLD	2.93E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/24/2008	267.7	<LLD	2.58E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/1/2008	263.8	<LLD	2.04E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/8/2008	264.6	<LLD	2.77E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/15/2008	265.0	<LLD	2.01E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/22/2008	267.6	<LLD	3.19E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	12/29/2008	296.3	<LLD	3.15E-02
205 0.6 MI SSE - SPOIL POND	1/7/2008	254.7	<LLD	2.36E-02
205 0.6 MI SSE - SPOIL POND	1/14/2008	304.3	<LLD	1.58E-02
205 0.6 MI SSE - SPOIL POND	1/21/2008	307.4	<LLD	1.84E-02
205 0.6 MI SSE - SPOIL POND	1/28/2008	273.6	<LLD	1.68E-02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Activity: pCi/cubic meter

Analysis: Iodine

Sample Point		Sample Date	Quantity	Activity	LLD
205	0.6 MI SSE - SPOIL POND	2/4/2008	275.9	<LLD	1.95E-02
205	0.6 MI SSE - SPOIL POND	2/11/2008	283.0	<LLD	2.40E-02
205	0.6 MI SSE - SPOIL POND	2/18/2008	278.7	<LLD	1.69E-02
205	0.6 MI SSE - SPOIL POND	2/25/2008	277.5	<LLD	1.91E-02
205	0.6 MI SSE - SPOIL POND	3/3/2008	275.4	<LLD	3.24E-02
205	0.6 MI SSE - SPOIL POND	3/10/2008	276.5	<LLD	1.86E-02
205	0.6 MI SSE - SPOIL POND	3/17/2008	277.9	<LLD	2.15E-02
205	0.6 MI SSE - SPOIL POND	3/24/2008	275.3	<LLD	2.09E-02
205	0.6 MI SSE - SPOIL POND	3/31/2008	277.9	<LLD	1.75E-02
205	0.6 MI SSE - SPOIL POND	4/7/2008	281.3	<LLD	1.75E-02
205	0.6 MI SSE - SPOIL POND	4/14/2008	283.5	<LLD	1.33E-02
205	0.6 MI SSE - SPOIL POND	4/21/2008	281.4	<LLD	1.76E-02
205	0.6 MI SSE - SPOIL POND	4/28/2008	287.7	<LLD	1.71E-02
205	0.6 MI SSE - SPOIL POND	5/5/2008	279.4	<LLD	3.31E-02
205	0.6 MI SSE - SPOIL POND	5/12/2008	291.5	<LLD	2.68E-02
205	0.6 MI SSE - SPOIL POND	5/19/2008	290.1	<LLD	2.54E-02
205	0.6 MI SSE - SPOIL POND	5/27/2008	326.4	<LLD	2.65E-02
205	0.6 MI SSE - SPOIL POND	6/2/2008	254.6	<LLD	2.45E-02
205	0.6 MI SSE - SPOIL POND	6/9/2008	291.6	<LLD	2.50E-02
205	0.6 MI SSE - SPOIL POND	6/16/2008	291.8	<LLD	3.38E-02
205	0.6 MI SSE - SPOIL POND	6/23/2008	293.1	<LLD	3.16E-02
205	0.6 MI SSE - SPOIL POND	6/30/2008	292.7	<LLD	2.71E-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>
205 0.6 MI SSE - SPOIL POND	7/7/2008	293.7	<LLD	3.00E-02
205 0.6 MI SSE - SPOIL POND	7/14/2008	294.3	<LLD	2.25E-02
205 0.6 MI SSE - SPOIL POND	7/21/2008	290.1	<LLD	2.43E-02
205 0.6 MI SSE - SPOIL POND	7/28/2008	301.5	<LLD	2.89E-02
205 0.6 MI SSE - SPOIL POND	8/4/2008	292.8	<LLD	2.69E-02
205 0.6 MI SSE - SPOIL POND	8/11/2008	291.5	<LLD	3.12E-02
205 0.6 MI SSE - SPOIL POND	8/18/2008	295.4	<LLD	2.00E-02
205 0.6 MI SSE - SPOIL POND	8/25/2008	294.7	<LLD	1.98E-02
205 0.6 MI SSE - SPOIL POND	9/1/2008	292.3	<LLD	2.02E-02
205 0.6 MI SSE - SPOIL POND	9/8/2008	295.9	<LLD	2.09E-02
205 0.6 MI SSE - SPOIL POND	9/15/2008	294.4	<LLD	2.77E-02
205 0.6 MI SSE - SPOIL POND	9/22/2008	287.0	<LLD	1.82E-02
205 0.6 MI SSE - SPOIL POND	9/29/2008	286.9	<LLD	3.13E-02
205 0.6 MI SSE - SPOIL POND	10/6/2008	290.9	<LLD	1.80E-02
205 0.6 MI SSE - SPOIL POND	10/13/2008	281.4	<LLD	2.08E-02
205 0.6 MI SSE - SPOIL POND	10/20/2008	290.1	<LLD	1.54E-02
205 0.6 MI SSE - SPOIL POND	10/27/2008	281.2	<LLD	1.68E-02
205 0.6 MI SSE - SPOIL POND	11/3/2008	280.5	<LLD	1.91E-02
205 0.6 MI SSE - SPOIL POND	11/10/2008	276.7	<LLD	2.04E-02
205 0.6 MI SSE - SPOIL POND	11/17/2008	283.9	<LLD	1.99E-02
205 0.6 MI SSE - SPOIL POND	11/24/2008	258.8	<LLD	2.71E-02
205 0.6 MI SSE - SPOIL POND	12/1/2008	274.5	<LLD	3.29E-02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

*Media Type: Air Cartridge*

*Quantity: cubic meters*

*Activity: pCi/cubic meter*

*Analysis: Iodine*

<b><i>Sample Point</i></b>		<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
205	0.6 MI SSE - SPOIL POND	12/8/2008	262.0	<LLD	2.35E-02
205	0.6 MI SSE - SPOIL POND	12/15/2008	289.5	<LLD	1.86E-02
205	0.6 MI SSE - SPOIL POND	12/22/2008	305.2	<LLD	3.44E-02
205	0.6 MI SSE - SPOIL POND	12/29/2008	296.8	<LLD	3.89E-02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

*Media Type: Fish and Invertebrate*

*Quantity: Grams*

*Concentration (Activity): pCi/Gra*

*Analysis: Tritium*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
706 NANCY'S CREEK - FREE SWIMMERS	9/16/2008	500		<LLD	3.24E+02
707 NANCY'S CREEK - BOTTOM FEEDERS	9/16/2008	500		<LLD	3.49E+02
708 NANCY'S CREEK - SH/BO*	9/16/2008	500		<LLD	3.17E+02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>LLD</b>
402	WELL ESS-2C, 0.17 MILES W	1/17/2008	1	1.83E+06	
402	WELL ESS-2C, 0.17 MILES W	2/18/2008	1	1.58E+06	
402	WELL ESS-2C, 0.17 MILES W	3/20/2008	1	1.46E+06	
402	WELL ESS-2C, 0.17 MILES W	4/16/2008	1	1.39E+06	
402	WELL ESS-2C, 0.17 MILES W	5/15/2008	1	2.01E+06	
402	WELL ESS-2C, 0.17 MILES W	6/11/2008	1	1.80E+06	
402	WELL ESS-2C, 0.17 MILES W	7/14/2008	1	1.78E+06	
402	WELL ESS-2C, 0.17 MILES W	8/27/2008	1	1.70E+06	
402	WELL ESS-2C, 0.17 MILES W	9/16/2008	1	1.34E+06	
402	WELL ESS-2C, 0.17 MILES W	10/22/2008	1	1.12E+06	
402	WELL ESS-2C, 0.17 MILES W	11/14/2008	1	1.01E+06	
402	WELL ESS-2C, 0.17 MILES W	12/17/2008	1	1.05E+06	
403	WELL ESS-16, 0.16 MILES W	1/17/2008	1	5.10E+04	
403	WELL ESS-16, 0.16 MILES W	2/15/2008	1	6.44E+04	
403	WELL ESS-16, 0.16 MILES W	3/20/2008	1	4.11E+04	
403	WELL ESS-16, 0.16 MILES W	4/16/2008	1	3.38E+04	
403	WELL ESS-16, 0.16 MILES W	5/15/2008	1	3.22E+04	
403	WELL ESS-16, 0.16 MILES W	6/11/2008	1	1.40E+04	
403	WELL ESS-16, 0.16 MILES W	7/14/2008	1	2.77E+04	
403	WELL ESS-16, 0.16 MILES W	8/27/2008	1	2.90E+04	
403	WELL ESS-16, 0.16 MILES W	9/16/2008	1	1.64E+04	
403	WELL ESS-16, 0.16 MILES W	10/22/2008	1	1.21E+04	
403	WELL ESS-16, 0.16 MILES W	11/14/2008	1	1.09E+04	
403	WELL ESS-16, 0.16 MILES W	12/17/2008	1	9.13E+03	



# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
404 WELL ESS-1B, 0.16 MILES SW	1/16/2008	1		<LLD	2.38E+02
404 WELL ESS-1B, 0.16 MILES SW	2/15/2008	1		<LLD	2.44E+02
404 WELL ESS-1B, 0.16 MILES SW	3/12/2008	1		<LLD	2.62E+02
404 WELL ESS-1B, 0.16 MILES SW	4/15/2008	1		<LLD	2.50E+02
404 WELL ESS-1B, 0.16 MILES SW	5/15/2008	1		<LLD	2.40E+02
404 WELL ESS-1B, 0.16 MILES SW	6/11/2008	1		<LLD	2.48E+02
404 WELL ESS-1B, 0.16 MILES SW	7/16/2008	1		<LLD	2.45E+02
404 WELL ESS-1B, 0.16 MILES SW	8/21/2008	1		<LLD	2.48E+02
404 WELL ESS-1B, 0.16 MILES SW	9/15/2008	1		<LLD	2.39E+02
404 WELL ESS-1B, 0.16 MILES SW	10/22/2008	1		<LLD	2.39E+02
404 WELL ESS-1B, 0.16 MILES SW	11/20/2008	1		<LLD	2.50E+02
404 WELL ESS-1B, 0.16 MILES SW	12/19/2008	1		<LLD	2.38E+02
405 WELL ESS-2B, 0.17 MILES W	1/17/2008	1		<LLD	2.46E+02
405 WELL ESS-2B, 0.17 MILES W	2/18/2008	1		2.41E+02	
405 WELL ESS-2B, 0.17 MILES W	3/20/2008	1		<LLD	2.56E+02
405 WELL ESS-2B, 0.17 MILES W	4/16/2008	1		<LLD	2.54E+02
405 WELL ESS-2B, 0.17 MILES W	5/15/2008	1		<LLD	2.42E+02
405 WELL ESS-2B, 0.17 MILES W	6/11/2008	1		<LLD	2.46E+02
405 WELL ESS-2B, 0.17 MILES W	7/14/2008	1		<LLD	2.37E+02
405 WELL ESS-2B, 0.17 MILES W	8/27/2008	1		<LLD	2.47E+02
405 WELL ESS-2B, 0.17 MILES W	9/16/2008	1		<LLD	2.39E+02
405 WELL ESS-2B, 0.17 MILES W	10/22/2008	1		<LLD	2.39E+02
405 WELL ESS-2B, 0.17 MILES W	11/21/2008	1		<LLD	2.40E+02
405 WELL ESS-2B, 0.17 MILES W	12/19/2008	1		<LLD	2.38E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>LLD</b>
406 WELL ESS-3B, 0.08 MILES N	1/16/2008	1		8.94E+02	
406 WELL ESS-3B, 0.08 MILES N	2/15/2008	1		9.43E+02	
406 WELL ESS-3B, 0.08 MILES N	3/18/2008	1		5.06E+02	
406 WELL ESS-3B, 0.08 MILES N	4/15/2008	1		4.77E+02	
406 WELL ESS-3B, 0.08 MILES N	5/13/2008	1		5.07E+02	
406 WELL ESS-3B, 0.08 MILES N	6/11/2008	1		4.30E+02	
406 WELL ESS-3B, 0.08 MILES N	7/10/2008	1		4.23E+02	
406 WELL ESS-3B, 0.08 MILES N	8/21/2008	1		2.98E+02	
406 WELL ESS-3B, 0.08 MILES N	9/12/2008	1		4.35E+02	
406 WELL ESS-3B, 0.08 MILES N	10/21/2008	1		<LLD	2.43E+02
406 WELL ESS-3B, 0.08 MILES N	11/19/2008	1		<LLD	2.43E+02
406 WELL ESS-3B, 0.08 MILES N	12/16/2008	1		<LLD	2.45E+02
407 WELL ESS-13B, 0.06 MILES ENE	1/16/2008	1		2.58E+02	
407 WELL ESS-13B, 0.06 MILES ENE	2/15/2008	1		<LLD	2.42E+02
407 WELL ESS-13B, 0.06 MILES ENE	3/19/2008	1		2.65E+02	
407 WELL ESS-13B, 0.06 MILES ENE	4/15/2008	1		<LLD	2.46E+02
407 WELL ESS-13B, 0.06 MILES ENE	5/15/2008	1		<LLD	2.43E+02
407 WELL ESS-13B, 0.06 MILES ENE	6/11/2008	1		<LLD	2.48E+02
407 WELL ESS-13B, 0.06 MILES ENE	7/10/2008	1		<LLD	2.48E+02
407 WELL ESS-13B, 0.06 MILES ENE	8/21/2008	1		<LLD	2.44E+02
407 WELL ESS-13B, 0.06 MILES ENE	9/12/2008	1		<LLD	2.41E+02
407 WELL ESS-13B, 0.06 MILES ENE	10/21/2008	1		<LLD	2.43E+02
407 WELL ESS-13B, 0.06 MILES ENE	11/19/2008	1		<LLD	2.41E+02
407 WELL ESS-13B, 0.06 MILES ENE	12/16/2008	1		<LLD	2.45E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
408	WELL ESS-13C, 0.06 MILES ENE	1/16/2008	1	<LLD	2.37E+02
408	WELL ESS-13C, 0.06 MILES ENE	2/15/2008	1	<LLD	2.46E+02
408	WELL ESS-13C, 0.06 MILES ENE	3/19/2008	1	<LLD	2.84E+02
408	WELL ESS-13C, 0.06 MILES ENE	4/15/2008	1	<LLD	2.52E+02
408	WELL ESS-13C, 0.06 MILES ENE	5/14/2008	1	<LLD	2.54E+02
408	WELL ESS-13C, 0.06 MILES ENE	6/11/2008	1	<LLD	2.54E+02
408	WELL ESS-13C, 0.06 MILES ENE	7/10/2008	1	<LLD	2.53E+02
408	WELL ESS-13C, 0.06 MILES ENE	8/21/2008	1	<LLD	2.45E+02
408	WELL ESS-13C, 0.06 MILES ENE	9/12/2008	1	<LLD	2.42E+02
408	WELL ESS-13C, 0.06 MILES ENE	10/21/2008	1	<LLD	2.42E+02
408	WELL ESS-13C, 0.06 MILES ENE	11/19/2008	1	<LLD	2.45E+02
408	WELL ESS-13C, 0.06 MILES ENE	12/16/2008	1	<LLD	2.40E+02
409	WELL ESS-17A, 0.65 MILES NE	1/14/2008	1	<LLD	2.36E+02
409	WELL ESS-17A, 0.65 MILES NE	2/11/2008	1	<LLD	2.47E+02
409	WELL ESS-17A, 0.65 MILES NE	3/12/2008	1	<LLD	2.57E+02
409	WELL ESS-17A, 0.65 MILES NE	4/14/2008	1	<LLD	2.48E+02
409	WELL ESS-17A, 0.65 MILES NE	5/14/2008	1	<LLD	2.42E+02
409	WELL ESS-17A, 0.65 MILES NE	6/12/2008	1	<LLD	2.52E+02
409	WELL ESS-17A, 0.65 MILES NE	7/8/2008	1	<LLD	2.41E+02
409	WELL ESS-17A, 0.65 MILES NE	8/12/2008	1	<LLD	2.45E+02
409	WELL ESS-17A, 0.65 MILES NE	9/10/2008	1	<LLD	2.38E+02
409	WELL ESS-17A, 0.65 MILES NE	10/16/2008	1	<LLD	2.41E+02
409	WELL ESS-17A, 0.65 MILES NE	11/13/2008	1	<LLD	2.48E+02
409	WELL ESS-17A, 0.65 MILES NE	12/11/2008	1	<LLD	2.35E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
410 WELL ESS-17B, 0.65 MILES NE	1/14/2008	1		<LLD	2.39E+02
410 WELL ESS-17B, 0.65 MILES NE	2/11/2008	1		<LLD	2.47E+02
410 WELL ESS-17B, 0.65 MILES NE	3/12/2008	1		<LLD	2.57E+02
410 WELL ESS-17B, 0.65 MILES NE	4/14/2008	1		<LLD	2.46E+02
410 WELL ESS-17B, 0.65 MILES NE	5/7/2008	1		<LLD	2.47E+02
410 WELL ESS-17B, 0.65 MILES NE	6/12/2008	1		<LLD	2.52E+02
410 WELL ESS-17B, 0.65 MILES NE	7/8/2008	1		<LLD	2.42E+02
410 WELL ESS-17B, 0.65 MILES NE	8/12/2008	1		<LLD	2.48E+02
410 WELL ESS-17B, 0.65 MILES NE	9/10/2008	1		<LLD	2.40E+02
410 WELL ESS-17B, 0.65 MILES NE	10/16/2008	1		<LLD	2.44E+02
410 WELL ESS-17B, 0.65 MILES NE	11/13/2008	1		<LLD	2.48E+02
410 WELL ESS-17B, 0.65 MILES NE	12/11/2008	1		<LLD	2.38E+02
411 WELL ESS-17C, 0.65 MILES NE	1/14/2008	1		4.33E+03	
411 WELL ESS-17C, 0.65 MILES NE	2/11/2008	1		4.77E+03	
411 WELL ESS-17C, 0.65 MILES NE	3/12/2008	1		4.75E+03	
411 WELL ESS-17C, 0.65 MILES NE	4/14/2008	1		4.53E+03	
411 WELL ESS-17C, 0.65 MILES NE	5/7/2008	1		4.25E+03	
411 WELL ESS-17C, 0.65 MILES NE	6/12/2008	1		4.29E+03	
411 WELL ESS-17C, 0.65 MILES NE	7/8/2008	1		3.97E+03	
411 WELL ESS-17C, 0.65 MILES NE	8/12/2008	1		4.26E+03	
411 WELL ESS-17C, 0.65 MILES NE	9/10/2008	1		4.26E+03	
411 WELL ESS-17C, 0.65 MILES NE	10/16/2008	1		4.12E+03	
411 WELL ESS-17C, 0.65 MILES NE	11/13/2008	1		4.48E+03	
411 WELL ESS-17C, 0.65 MILES NE	12/11/2008	1		4.45E+03	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	1/15/2008	1	<LLD	2.40E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	2/14/2008	1	<LLD	2.44E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	3/14/2008	1	<LLD	2.52E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	4/11/2008	1	<LLD	2.56E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	5/13/2008	1	<LLD	2.46E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	6/19/2008	1	<LLD	2.42E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	7/9/2008	1	<LLD	2.44E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	8/20/2008	1	<LLD	2.47E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	9/11/2008	1	<LLD	2.39E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	10/20/2008	1	<LLD	2.43E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	11/17/2008	1	<LLD	2.39E+02
412	WELL ESS-18B, NEAR (SDSP) STORM DRAIN STABILIZAT	12/15/2008	1	<LLD	2.40E+02
413	WELL ESS-18C, NEAR SDSP	1/15/2008	1	6.21E+05	
413	WELL ESS-18C, NEAR SDSP	2/14/2008	1	5.52E+05	
413	WELL ESS-18C, NEAR SDSP	3/14/2008	1	6.65E+05	
413	WELL ESS-18C, NEAR SDSP	4/11/2008	1	7.16E+05	
413	WELL ESS-18C, NEAR SDSP	5/13/2008	1	6.53E+05	
413	WELL ESS-18C, NEAR SDSP	6/19/2008	1	6.55E+05	
413	WELL ESS-18C, NEAR SDSP	7/9/2008	1	6.40E+05	
413	WELL ESS-18C, NEAR SDSP	8/20/2008	1	6.22E+05	
413	WELL ESS-18C, NEAR SDSP	9/11/2008	1	6.12E+05	
413	WELL ESS-18C, NEAR SDSP	10/20/2008	1	4.96E+05	
413	WELL ESS-18C, NEAR SDSP	11/17/2008	1	3.38E+05	
413	WELL ESS-18C, NEAR SDSP	12/15/2008	1	4.93E+05	

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground 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>
414	WELL ESS-19B, NEAR SDSP	1/10/2008	1	1.28E+04	
414	WELL ESS-19B, NEAR SDSP	2/11/2008	1	1.76E+04	
414	WELL ESS-19B, NEAR SDSP	3/17/2008	1	2.45E+04	
414	WELL ESS-19B, NEAR SDSP	3/21/2008	1	2.41E+04	
414	WELL ESS-19B, NEAR SDSP	3/21/2008	1	2.54E+04	
414	WELL ESS-19B, NEAR SDSP	4/11/2008	1	1.79E+04	
414	WELL ESS-19B, NEAR SDSP	4/15/2008	1	1.66E+04	
414	WELL ESS-19B, NEAR SDSP	5/12/2008	1	2.48E+04	
414	WELL ESS-19B, NEAR SDSP	6/17/2008	1	1.99E+04	
414	WELL ESS-19B, NEAR SDSP	7/14/2008	1	3.32E+04	
414	WELL ESS-19B, NEAR SDSP	8/12/2008	1	3.17E+04	
414	WELL ESS-19B, NEAR SDSP	9/12/2008	1	3.48E+04	
414	WELL ESS-19B, NEAR SDSP	10/20/2008	1	5.10E+04	
414	WELL ESS-19B, NEAR SDSP	11/20/2008	1	6.46E+04	
414	WELL ESS-19B, NEAR SDSP	12/15/2008	1	5.57E+04	
415	WELL ESS-19C, NEAR SDSP	1/10/2008	1	5.03E+05	
415	WELL ESS-19C, NEAR SDSP	2/11/2008	1	5.09E+05	
415	WELL ESS-19C, NEAR SDSP	3/17/2008	1	5.11E+05	
415	WELL ESS-19C, NEAR SDSP	4/11/2008	1	4.50E+05	
415	WELL ESS-19C, NEAR SDSP	4/15/2008	1	4.65E+05	
415	WELL ESS-19C, NEAR SDSP	5/12/2008	1	5.36E+05	
415	WELL ESS-19C, NEAR SDSP	6/17/2008	1	5.09E+05	
415	WELL ESS-19C, NEAR SDSP	7/14/2008	1	5.52E+05	
415	WELL ESS-19C, NEAR SDSP	8/12/2008	1	5.78E+05	

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
415	WELL ESS-19C, NEAR SDSP	9/12/2008	1	3.60E+05	
415	WELL ESS-19C, NEAR SDSP	10/20/2008	1	5.98E+05	
415	WELL ESS-19C, NEAR SDSP	11/20/2008	1	5.35E+05	
415	WELL ESS-19C, NEAR SDSP	12/15/2008	1	5.20E+05	
416	WELL ESS-20B, NEAR SDSP	1/10/2008	1	<LLD	2.39E+02
416	WELL ESS-20B, NEAR SDSP	2/11/2008	1	<LLD	2.46E+02
416	WELL ESS-20B, NEAR SDSP	3/17/2008	1	<LLD	2.54E+02
416	WELL ESS-20B, NEAR SDSP	4/14/2008	1	<LLD	2.44E+02
416	WELL ESS-20B, NEAR SDSP	5/12/2008	1	<LLD	2.47E+02
416	WELL ESS-20B, NEAR SDSP	6/17/2008	1	<LLD	2.55E+02
416	WELL ESS-20B, NEAR SDSP	7/14/2008	1	<LLD	2.49E+02
416	WELL ESS-20B, NEAR SDSP	8/14/2008	1	<LLD	2.42E+02
416	WELL ESS-20B, NEAR SDSP	9/12/2008	1	<LLD	2.39E+02
416	WELL ESS-20B, NEAR SDSP	10/20/2008	1	<LLD	2.44E+02
416	WELL ESS-20B, NEAR SDSP	11/20/2008	1	<LLD	2.52E+02
416	WELL ESS-20B, NEAR SDSP	12/15/2008	1	<LLD	2.42E+02
417	WELL ESS-20C, NEAR SDSP	1/1/2008	1	1.99E+04	
417	WELL ESS-20C, NEAR SDSP	2/11/2008	1	1.86E+04	
417	WELL ESS-20C, NEAR SDSP	3/17/2008	1	1.85E+04	
417	WELL ESS-20C, NEAR SDSP	4/14/2008	1	2.16E+04	
417	WELL ESS-20C, NEAR SDSP	5/12/2008	1	1.75E+04	
417	WELL ESS-20C, NEAR SDSP	6/17/2008	1	2.04E+04	
417	WELL ESS-20C, NEAR SDSP	7/14/2008	1	2.05E+04	
417	WELL ESS-20C, NEAR SDSP	8/14/2008	1	2.22E+04	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
417	WELL ESS-20C, NEAR SDSP	9/12/2008	1	1.95E+04	
417	WELL ESS-20C, NEAR SDSP	10/20/2008	1	1.94E+04	
417	WELL ESS-20C, NEAR SDSP	11/20/2008	1	2.00E+04	
417	WELL ESS-20C, NEAR SDSP	12/15/2008	1	2.26E+04	
418	WELL ESS-21B, NEAR SDSP	1/15/2008	1	<LLD	2.42E+02
418	WELL ESS-21B, NEAR SDSP	2/13/2008	1	<LLD	2.44E+02
418	WELL ESS-21B, NEAR SDSP	3/14/2008	1	<LLD	2.53E+02
418	WELL ESS-21B, NEAR SDSP	4/14/2008	1	<LLD	2.45E+02
418	WELL ESS-21B, NEAR SDSP	5/7/2008	1	<LLD	2.46E+02
418	WELL ESS-21B, NEAR SDSP	6/19/2008	1	<LLD	2.42E+02
418	WELL ESS-21B, NEAR SDSP	7/10/2008	1	<LLD	2.45E+02
418	WELL ESS-21B, NEAR SDSP	8/13/2008	1	<LLD	2.39E+02
418	WELL ESS-21B, NEAR SDSP	9/11/2008	1	<LLD	2.40E+02
418	WELL ESS-21B, NEAR SDSP	10/16/2008	1	<LLD	2.49E+02
418	WELL ESS-21B, NEAR SDSP	11/13/2008	1	<LLD	2.47E+02
418	WELL ESS-21B, NEAR SDSP	12/12/2008	1	<LLD	2.39E+02
419	WELL ESS-21C, NEAR SDSP	1/15/2008	1	5.46E+02	
419	WELL ESS-21C, NEAR SDSP	2/13/2008	1	6.06E+02	
419	WELL ESS-21C, NEAR SDSP	3/14/2008	1	7.57E+02	
419	WELL ESS-21C, NEAR SDSP	4/14/2008	1	5.11E+02	
419	WELL ESS-21C, NEAR SDSP	5/7/2008	1	5.33E+02	
419	WELL ESS-21C, NEAR SDSP	6/19/2008	1	5.80E+02	
419	WELL ESS-21C, NEAR SDSP	7/10/2008	1	3.67E+02	
419	WELL ESS-21C, NEAR SDSP	8/13/2008	1	3.25E+02	



# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
419	WELL ESS-21C, NEAR SDSP	9/11/2008	1	5.62E+02	
419	WELL ESS-21C, NEAR SDSP	10/16/2008	1	4.73E+02	
419	WELL ESS-21C, NEAR SDSP	11/13/2008	1	4.62E+02	
419	WELL ESS-21C, NEAR SDSP	12/12/2008	1	4.07E+02	
420	WELL ESS-22B, NEAR SDSP	1/15/2008	1	<LLD	2.41E+02
420	WELL ESS-22B, NEAR SDSP	2/13/2008	1	<LLD	2.46E+02
420	WELL ESS-22B, NEAR SDSP	3/14/2008	1	<LLD	2.55E+02
420	WELL ESS-22B, NEAR SDSP	4/10/2008	1	<LLD	2.51E+02
420	WELL ESS-22B, NEAR SDSP	5/13/2008	1	<LLD	2.48E+02
420	WELL ESS-22B, NEAR SDSP	6/12/2008	1	<LLD	2.54E+02
420	WELL ESS-22B, NEAR SDSP	7/10/2008	1	<LLD	2.46E+02
420	WELL ESS-22B, NEAR SDSP	8/13/2008	1	<LLD	2.41E+02
420	WELL ESS-22B, NEAR SDSP	9/11/2008	1	<LLD	2.40E+02
420	WELL ESS-22B, NEAR SDSP	10/17/2008	1	<LLD	2.45E+02
420	WELL ESS-22B, NEAR SDSP	11/17/2008	1	<LLD	2.39E+02
420	WELL ESS-22B, NEAR SDSP	12/12/2008	1	<LLD	2.39E+02
421	WELL ESS-22C, NEAR SDSP	1/15/2008	1	7.15E+05	
421	WELL ESS-22C, NEAR SDSP	2/13/2008	1	5.74E+05	
421	WELL ESS-22C, NEAR SDSP	3/14/2008	1	7.51E+05	
421	WELL ESS-22C, NEAR SDSP	4/10/2008	1	7.53E+05	
421	WELL ESS-22C, NEAR SDSP	5/13/2008	1	7.45E+05	
421	WELL ESS-22C, NEAR SDSP	6/12/2008	1	7.15E+05	
421	WELL ESS-22C, NEAR SDSP	7/10/2008	1	7.74E+05	
421	WELL ESS-22C, NEAR SDSP	8/13/2008	1	1.04E+05	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
421	WELL ESS-22C, NEAR SDSP	8/21/2008	1	7.50E+05	
421	WELL ESS-22C, NEAR SDSP	9/11/2008	1	7.33E+05	
421	WELL ESS-22C, NEAR SDSP	10/17/2008	1	6.55E+05	
421	WELL ESS-22C, NEAR SDSP	11/17/2008	1	3.59E+05	
421	WELL ESS-22C, NEAR SDSP	12/12/2008	1	4.87E+05	
422	WELL ESS-23C, NEAR SDSP	1/11/2008	1	2.46E+05	
422	WELL ESS-23C, NEAR SDSP	2/14/2008	1	2.34E+05	
422	WELL ESS-23C, NEAR SDSP	3/14/2008	1	2.31E+05	
422	WELL ESS-23C, NEAR SDSP	4/10/2008	1	2.24E+05	
422	WELL ESS-23C, NEAR SDSP	5/13/2008	1	1.73E+05	
422	WELL ESS-23C, NEAR SDSP	6/19/2008	1	1.37E+05	
422	WELL ESS-23C, NEAR SDSP	7/9/2008	1	1.39E+05	
422	WELL ESS-23C, NEAR SDSP	8/20/2008	1	1.81E+05	
422	WELL ESS-23C, NEAR SDSP	9/11/2008	1	1.75E+05	
422	WELL ESS-23C, NEAR SDSP	10/20/2008	1	1.84E+05	
422	WELL ESS-23C, NEAR SDSP	11/17/2008	1	2.03E+05	
422	WELL ESS-23C, NEAR SDSP	12/15/2008	1	1.93E+05	
423	WELL ESS-24A, NEAR SDSP	1/14/2008	1	<LLD	2.36E+02
423	WELL ESS-24A, NEAR SDSP	2/13/2008	1	<LLD	2.76E+02
423	WELL ESS-24A, NEAR SDSP	3/12/2008	1	<LLD	2.61E+02
423	WELL ESS-24A, NEAR SDSP	4/11/2008	1	<LLD	2.67E+02
423	WELL ESS-24A, NEAR SDSP	5/7/2008	1	<LLD	2.73E+02
423	WELL ESS-24A, NEAR SDSP	6/12/2008	1	<LLD	2.35E+02
423	WELL ESS-24A, NEAR SDSP	7/8/2008	1	<LLD	2.51E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
423	WELL ESS-24A, NEAR SDSP	8/13/2008	1	<LLD	2.57E+02
423	WELL ESS-24A, NEAR SDSP	9/10/2008	1	<LLD	2.40E+02
423	WELL ESS-24A, NEAR SDSP	10/16/2008	1	<LLD	2.52E+02
423	WELL ESS-24A, NEAR SDSP	11/14/2008	1	<LLD	2.44E+02
423	WELL ESS-24A, NEAR SDSP	12/11/2008	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	1/14/2008	1	<LLD	2.37E+02
424	WELL ESS-24B, NEAR SDSP	2/13/2008	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	3/12/2008	1	<LLD	2.62E+02
424	WELL ESS-24B, NEAR SDSP	4/14/2008	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	5/7/2008	1	<LLD	2.45E+02
424	WELL ESS-24B, NEAR SDSP	6/12/2008	1	<LLD	2.37E+02
424	WELL ESS-24B, NEAR SDSP	7/8/2008	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	8/13/2008	1	<LLD	2.47E+02
424	WELL ESS-24B, NEAR SDSP	9/10/2008	1	<LLD	2.40E+02
424	WELL ESS-24B, NEAR SDSP	10/16/2008	1	<LLD	2.44E+02
424	WELL ESS-24B, NEAR SDSP	10/29/2008	1	<LLD	2.39E+02
424	WELL ESS-24B, NEAR SDSP	11/14/2008	1	<LLD	2.36E+02
424	WELL ESS-24B, NEAR SDSP	12/11/2008	1	<LLD	2.39E+02
425	WELL ESS-24C, NEAR SDSP	1/14/2008	1	3.44E+03	
425	WELL ESS-24C, NEAR SDSP	2/13/2008	1	4.33E+03	
425	WELL ESS-24C, NEAR SDSP	3/12/2008	1	3.26E+03	
425	WELL ESS-24C, NEAR SDSP	4/14/2008	1	3.77E+03	
425	WELL ESS-24C, NEAR SDSP	5/7/2008	1	3.48E+03	
425	WELL ESS-24C, NEAR SDSP	6/12/2008	1	3.68E+03	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
425	WELL ESS-24C, NEAR SDSP	7/8/2008	1	3.72E+03	
425	WELL ESS-24C, NEAR SDSP	8/13/2008	1	3.99E+03	
425	WELL ESS-24C, NEAR SDSP	9/10/2008	1	3.44E+02	
425	WELL ESS-24C, NEAR SDSP	10/16/2008	1	3.98E+03	
425	WELL ESS-24C, NEAR SDSP	11/14/2008	1	2.79E+03	
425	WELL ESS-24C, NEAR SDSP	12/11/2008	1	3.58E+03	
426	WELL ESS-25B, NEAR SDSP	1/16/2008	1	<LLD	2.38E+02
426	WELL ESS-25B, NEAR SDSP	2/18/2008	1	<LLD	2.41E+02
426	WELL ESS-25B, NEAR SDSP	3/12/2008	1	<LLD	2.61E+02
426	WELL ESS-25B, NEAR SDSP	4/15/2008	1	<LLD	2.48E+02
426	WELL ESS-25B, NEAR SDSP	5/15/2008	1	<LLD	2.41E+02
426	WELL ESS-25B, NEAR SDSP	6/10/2008	1	<LLD	2.51E+02
426	WELL ESS-25B, NEAR SDSP	7/16/2008	1	<LLD	2.46E+02
426	WELL ESS-25B, NEAR SDSP	8/21/2008	1	<LLD	2.45E+02
426	WELL ESS-25B, NEAR SDSP	9/15/2008	1	<LLD	2.39E+02
426	WELL ESS-25B, NEAR SDSP	10/21/2008	1	<LLD	2.40E+02
426	WELL ESS-25B, NEAR SDSP	11/20/2008	1	<LLD	2.45E+02
426	WELL ESS-25B, NEAR SDSP	12/9/2008	1	<LLD	2.40E+02
427	WELL ESS-25C, NEAR SDSP	1/16/2008	1	<LLD	2.39E+02
427	WELL ESS-25C, NEAR SDSP	2/18/2008	1	<LLD	2.54E+02
427	WELL ESS-25C, NEAR SDSP	3/12/2008	1	<LLD	2.60E+02
427	WELL ESS-25C, NEAR SDSP	4/15/2008	1	<LLD	2.60E+02
427	WELL ESS-25C, NEAR SDSP	5/15/2008	1	<LLD	2.75E+02
427	WELL ESS-25C, NEAR SDSP	6/10/2008	1	<LLD	2.63E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
427	WELL ESS-25C, NEAR SDSP	7/16/2008	1	<LLD	2.53E+02
427	WELL ESS-25C, NEAR SDSP	8/31/2008	1	<LLD	2.40E+02
427	WELL ESS-25C, NEAR SDSP	9/15/2008	1	<LLD	2.38E+02
427	WELL ESS-25C, NEAR SDSP	10/21/2008	1	<LLD	2.41E+02
427	WELL ESS-25C, NEAR SDSP	11/20/2008	1	<LLD	2.50E+02
427	WELL ESS-25C, NEAR SDSP	12/9/2008	1	<LLD	2.37E+02
428	WELL ESS-26C, NEAR SDSP	1/11/2008	1	4.85E+05	
428	WELL ESS-26C, NEAR SDSP	2/13/2008	1	3.46E+05	
428	WELL ESS-26C, NEAR SDSP	3/14/2008	1	5.04E+05	
428	WELL ESS-26C, NEAR SDSP	4/10/2008	1	3.41E+05	
428	WELL ESS-26C, NEAR SDSP	5/13/2008	1	5.43E+05	
428	WELL ESS-26C, NEAR SDSP	6/19/2008	1	6.33E+05	
428	WELL ESS-26C, NEAR SDSP	7/9/2008	1	6.20E+05	
428	WELL ESS-26C, NEAR SDSP	8/20/2008	1	5.73E+05	
428	WELL ESS-26C, NEAR SDSP	9/11/2008	1	4.73E+05	
428	WELL ESS-26C, NEAR SDSP	10/17/2008	1	3.40E+05	
428	WELL ESS-26C, NEAR SDSP	11/17/2008	1	2.00E+05	
428	WELL ESS-26C, NEAR SDSP	12/15/2008	1	1.25E+05	
429	WELL ESS-27A, NEAR SDSP	1/11/2008	1	<LLD	2.39E+02
429	WELL ESS-27A, NEAR SDSP	2/14/2008	1	<LLD	2.43E+02
429	WELL ESS-27A, NEAR SDSP	3/14/2008	1	<LLD	2.52E+02
429	WELL ESS-27A, NEAR SDSP	4/10/2008	1	<LLD	2.52E+02
429	WELL ESS-27A, NEAR SDSP	5/13/2008	1	<LLD	2.44E+02
429	WELL ESS-27A, NEAR SDSP	6/19/2008	1	<LLD	2.43E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
429	WELL ESS-27A, NEAR SDSP	7/9/2008	1	<LLD	2.31E+02
429	WELL ESS-27A, NEAR SDSP	8/20/2008	1	<LLD	2.46E+02
429	WELL ESS-27A, NEAR SDSP	9/11/2008	1	<LLD	2.41E+02
429	WELL ESS-27A, NEAR SDSP	10/17/2008	1	<LLD	2.41E+02
429	WELL ESS-27A, NEAR SDSP	11/17/2008	1	<LLD	2.43E+02
429	WELL ESS-27A, NEAR SDSP	12/15/2008	1	<LLD	2.42E+02
430	WELL ESS-27C, NEAR SDSP	1/11/2008	1	2.53E+05	
430	WELL ESS-27C, NEAR SDSP	2/14/2008	1	2.64E+05	
430	WELL ESS-27C, NEAR SDSP	3/20/2008	1	2.66E+05	
430	WELL ESS-27C, NEAR SDSP	4/11/2008	1	2.60E+05	
430	WELL ESS-27C, NEAR SDSP	5/13/2008	1	2.70E+05	
430	WELL ESS-27C, NEAR SDSP	6/19/2008	1	2.87E+05	
430	WELL ESS-27C, NEAR SDSP	7/15/2008	1	2.76E+05	
430	WELL ESS-27C, NEAR SDSP	8/21/2008	1	2.75E+05	
430	WELL ESS-27C, NEAR SDSP	9/12/2008	1	1.72E+05	
430	WELL ESS-27C, NEAR SDSP	10/20/2008	1	2.71E+05	
430	WELL ESS-27C, NEAR SDSP	11/19/2008	1	2.85E+05	
430	WELL ESS-27C, NEAR SDSP	12/15/2008	1	2.60E+05	
431	WELL ESS-30C, NEAR SDSP	1/10/2008	1	2.23E+04	
431	WELL ESS-30C, NEAR SDSP	2/13/2008	1	2.93E+03	
431	WELL ESS-30C, NEAR SDSP	3/12/2008	1	2.86E+03	
431	WELL ESS-30C, NEAR SDSP	4/14/2008	1	2.57E+03	
431	WELL ESS-30C, NEAR SDSP	5/7/2008	1	2.41E+04	
431	WELL ESS-30C, NEAR SDSP	6/16/2008	1	5.36E+04	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
431	WELL ESS-30C, NEAR SDSP	7/10/2008	1	6.57E+04	
431	WELL ESS-30C, NEAR SDSP	8/20/2008	1	8.84E+03	
431	WELL ESS-30C, NEAR SDSP	9/11/2008	1	7.84E+04	
431	WELL ESS-30C, NEAR SDSP	10/16/2008	1	2.78E+03	
431	WELL ESS-30C, NEAR SDSP	11/17/2008	1	2.33E+03	
431	WELL ESS-30C, NEAR SDSP	12/12/2008	1	2.24E+03	
432	WELL ESS-31C, NEAR SDSP	1/10/2008	1	1.83E+03	
432	WELL ESS-31C, NEAR SDSP	2/13/2008	1	5.65E+02	
432	WELL ESS-31C, NEAR SDSP	3/12/2008	1	3.70E+02	
432	WELL ESS-31C, NEAR SDSP	4/14/2008	1	<LLD	2.67E+02
432	WELL ESS-31C, NEAR SDSP	5/7/2008	1	9.94E+02	
432	WELL ESS-31C, NEAR SDSP	6/16/2008	1	4.31E+03	
432	WELL ESS-31C, NEAR SDSP	7/10/2008	1	2.03E+03	
432	WELL ESS-31C, NEAR SDSP	8/20/2008	1	3.98E+02	
432	WELL ESS-31C, NEAR SDSP	9/11/2008	1	1.66E+03	
432	WELL ESS-31C, NEAR SDSP	10/16/2008	1	9.60E+02	
432	WELL ESS-31C, NEAR SDSP	11/13/2008	1	<LLD	2.45E+02
432	WELL ESS-31C, NEAR SDSP	12/12/2008	1	<LLD	2.41E+02
433	WELL MW-2, 0.02 MILES S	1/17/2008	1	<LLD	2.51E+02
433	WELL MW-2, 0.02 MILES S	2/15/2008	1	3.10E+02	
433	WELL MW-2, 0.02 MILES S	3/20/2008	1	<LLD	2.52E+02
433	WELL MW-2, 0.02 MILES S	4/16/2008	1	<LLD	2.79E+02
433	WELL MW-2, 0.02 MILES S	5/15/2008	1	<LLD	2.75E+02
433	WELL MW-2, 0.02 MILES S	6/11/2008	1	<LLD	2.52E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
433	WELL MW-2, 0.02 MILES S	7/14/2008	1	<LLD	2.47E+02
433	WELL MW-2, 0.02 MILES S	8/27/2008	1	<LLD	2.43E+02
433	WELL MW-2, 0.02 MILES S	9/19/2008	1	<LLD	2.36E+02
433	WELL MW-2, 0.02 MILES S	10/22/2008	1	3.18E+02	
433	WELL MW-2, 0.02 MILES S	11/14/2008	1	<LLD	2.39E+02
433	WELL MW-2, 0.02 MILES S	12/17/2008	1	<LLD	2.43E+02
434	WELL MW-3, 0.03 MILES S	1/17/2008	1	2.76E+02	
434	WELL MW-3, 0.03 MILES S	2/15/2008	1	4.64E+02	
434	WELL MW-3, 0.03 MILES S	3/20/2008	1	<LLD	2.62E+02
434	WELL MW-3, 0.03 MILES S	4/16/2008	1	<LLD	2.62E+02
434	WELL MW-3, 0.03 MILES S	5/15/2008	1	<LLD	2.47E+02
434	WELL MW-3, 0.03 MILES S	6/11/2008	1	<LLD	2.50E+02
434	WELL MW-3, 0.03 MILES S	7/14/2008	1	<LLD	2.42E+02
434	WELL MW-3, 0.03 MILES S	8/27/2008	1	<LLD	2.52E+02
434	WELL MW-3, 0.03 MILES S	9/19/2008	1	<LLD	2.38E+02
434	WELL MW-3, 0.03 MILES S	10/22/2008	1	<LLD	2.38E+02
434	WELL MW-3, 0.03 MILES S	11/14/2008	1	<LLD	2.40E+02
434	WELL MW-3, 0.03 MILES S	12/17/2008	1	<LLD	2.45E+02
435	WELL ESS-NANCY CREEK-1, (NC-1)	1/9/2008	1	<LLD	2.47E+02
435	WELL ESS-NANCY CREEK-1, (NC-1)	2/12/2008	1	2.40E+02	
435	WELL ESS-NANCY CREEK-1, (NC-1)	3/19/2008	1	2.84E+02	
435	WELL ESS-NANCY CREEK-1, (NC-1)	4/9/2008	1	2.63E+02	
435	WELL ESS-NANCY CREEK-1, (NC-1)	5/8/2008	1	2.59E+02	
435	WELL ESS-NANCY CREEK-1, (NC-1)	6/18/2008	1	<LLD	2.43E+02



# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
435 WELL ESS-NANCY CREEK-1, (NC-1)	7/16/2008	1		2.49E+02	
435 WELL ESS-NANCY CREEK-1, (NC-1)	8/14/2008	1		<LLD	2.43E+02
435 WELL ESS-NANCY CREEK-1, (NC-1)	9/18/2008	1		<LLD	2.42E+02
435 WELL ESS-NANCY CREEK-1, (NC-1)	10/15/2008	1		<LLD	2.46E+02
435 WELL ESS-NANCY CREEK-1, (NC-1)	11/12/2008	1		<LLD	2.38E+02
435 WELL ESS-NANCY CREEK-1, (NC-1)	12/16/2008	1		2.64E+02	
436 WELL ESS-NANCY CREEK-2, (NC-2)	1/9/2008	1		<LLD	2.40E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	2/12/2008	1		2.60E+02	
436 WELL ESS-NANCY CREEK-2, (NC-2)	3/19/2008	1		2.85E+02	
436 WELL ESS-NANCY CREEK-2, (NC-2)	4/9/2008	1		<LLD	2.52E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	5/8/2008	1		<LLD	2.50E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	6/18/2008	1		<LLD	2.41E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	7/16/2008	1		<LLD	2.46E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	8/14/2008	1		<LLD	2.42E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	9/18/2008	1		<LLD	2.41E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	10/15/2008	1		<LLD	2.47E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	11/12/2008	1		<LLD	2.39E+02
436 WELL ESS-NANCY CREEK-2, (NC-2)	12/16/2008	1		<LLD	2.37E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	1/9/2008	1		<LLD	2.40E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	2/12/2008	1		<LLD	2.38E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	3/19/2008	1		<LLD	2.60E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	4/9/2008	1		<LLD	2.51E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	5/8/2008	1		<LLD	2.50E+02
437 WELL ESS-NANCY CREEK-3, (NC-3)	6/18/2008	1		<LLD	2.43E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
437	WELL ESS-NANCY CREEK-3, (NC-3)	7/16/2008	1	<LLD	2.46E+02
437	WELL ESS-NANCY CREEK-3, (NC-3)	8/14/2008	1	<LLD	2.45E+02
437	WELL ESS-NANCY CREEK-3, (NC-3)	9/18/2008	1	<LLD	2.42E+02
437	WELL ESS-NANCY CREEK-3, (NC-3)	10/15/2008	1	<LLD	2.50E+02
437	WELL ESS-NANCY CREEK-3, (NC-3)	11/12/2008	1	<LLD	2.39E+02
437	WELL ESS-NANCY CREEK-3, (NC-3)	12/16/2008	1	<LLD	2.36E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	1/9/2008	1	<LLD	2.42E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	2/12/2008	1	3.23E+02	
438	WELL ESS-NANCY CREEK-4, (NC-4)	3/19/2008	1	2.66E+02	
438	WELL ESS-NANCY CREEK-4, (NC-4)	4/9/2008	1	<LLD	2.53E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	5/8/2008	1	<LLD	2.48E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	6/18/2008	1	<LLD	2.42E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	7/16/2008	1	<LLD	2.47E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	8/14/2008	1	<LLD	2.44E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	9/18/2008	1	<LLD	2.42E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	10/15/2008	1	<LLD	2.42E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	11/12/2008	1	<LLD	2.38E+02
438	WELL ESS-NANCY CREEK-4, (NC-4)	12/16/2008	1	<LLD	2.38E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	1/9/2008	1	<LLD	2.41E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	2/12/2008	1	<LLD	2.37E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	3/19/2008	1	<LLD	2.60E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	4/9/2008	1	<LLD	2.52E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	5/8/2008	1	<LLD	2.49E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	6/18/2008	1	<LLD	2.43E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Ground Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
439	WELL ESS-NANCY CREEK-5, (NC-5)	7/16/2008	1	<LLD	2.46E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	8/14/2008	1	<LLD	2.45E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	9/18/2008	1	<LLD	2.44E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	10/15/2008	1	<LLD	2.42E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	11/12/2008	1	<LLD	2.39E+02
439	WELL ESS-NANCY CREEK-5, (NC-5)	12/16/2008	1	<LLD	2.39E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	1/9/2008	1	<LLD	2.41E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	2/12/2008	1	<LLD	2.37E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	3/19/2008	1	<LLD	2.60E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	4/9/2008	1	<LLD	2.54E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	5/8/2008	1	<LLD	2.48E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	6/18/2008	1	<LLD	2.44E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	7/16/2008	1	<LLD	2.43E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	8/14/2008	1	<LLD	2.44E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	9/18/2008	1	<LLD	2.45E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	10/15/2008	1	<LLD	2.44E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	11/12/2008	1	<LLD	2.40E+02
440	WELL ESS-GUM LOG BRANCH-1, (GLB-1)	12/16/2008	1	<LLD	2.40E+02
447	WELL ESS-28C, NEAR SDSP	1/11/2008	1	<LLD	2.40E+02
447	WELL ESS-28C, NEAR SDSP	2/14/2008	1	5.25E+02	
447	WELL ESS-28C, NEAR SDSP	3/14/2008	1	<LLD	2.57E+02
447	WELL ESS-28C, NEAR SDSP	4/10/2008	1	<LLD	2.52E+02
447	WELL ESS-28C, NEAR SDSP	5/13/2008	1	2.56E+02	
447	WELL ESS-28C, NEAR SDSP	6/19/2008	1	2.81E+02	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

*Media Type: Ground Water*

*Quantity: Liters*

*Concentration (Activity): pCi/Liter*

*Analysis: Tritium*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
447 WELL ESS-28C, NEAR SDSP	7/9/2008	1		3.70E+02	
447 WELL ESS-28C, NEAR SDSP	8/20/2008	1		2.97E+02	
447 WELL ESS-28C, NEAR SDSP	9/12/2008	1		3.78E+02	
447 WELL ESS-28C, NEAR SDSP	10/20/2008	1		2.96E+02	
447 WELL ESS-28C, NEAR SDSP	11/19/2008	1		2.83E+02	
447 WELL ESS-28C, NEAR SDSP	12/15/2008	1		3.18E+02	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
400	0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2008	0.005	3.91E-01	<LLD 2.46E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	2/16/2008	0.005	3.89E-01	<LLD 2.46E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	3/17/2008	0.005	3.88E-01	<LLD 2.49E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2008	0.005	3.88E-01	<LLD 2.49E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	0.005	3.88E-01	<LLD 2.45E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	0.005	3.85E-01	<LLD 2.48E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	0.005	3.86E-01	<LLD 2.45E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	0.005	3.95E-01	<LLD 2.40E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	0.005	3.93E-01	<LLD 2.44E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	0.005	3.93E-01	<LLD 2.48E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	0.005	3.93E-01	<LLD 2.41E+02
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	0.005	3.90E-01	<LLD 2.48E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2008	0.005	3.91E-01	<LLD 2.46E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/16/2008	0.005	3.90E-01	4.16E+02 2.45E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/17/2008	0.005	3.90E-01	7.53E+02 2.48E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2008	0.005	3.90E-01	5.04E+02 2.48E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2008	0.005	3.88E-01	<LLD 2.45E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	0.005	3.85E-01	<LLD 2.48E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	0.005	3.85E-01	<LLD 2.46E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	0.005	3.95E-01	2.66E+02 2.40E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	0.005	3.95E-01	<LLD 2.43E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	0.005	3.93E-01	<LLD 2.48E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	0.005	3.95E-01	<LLD 2.42E+02
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	0.005	3.92E-01	<LLD 2.47E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
494 NANCY'S CREEK - WP-106	1/2/2008	1		<LLD	2.40E+02
494 NANCY'S CREEK - WP-106	1/8/2008	1		<LLD	2.37E+02
494 NANCY'S CREEK - WP-106	1/15/2008	1		<LLD	2.40E+02
494 NANCY'S CREEK - WP-106	1/23/2008	1		<LLD	2.37E+02
494 NANCY'S CREEK - WP-106	1/28/2008	1		3.41E+02	
494 NANCY'S CREEK - WP-106	2/5/2008	1		3.41E+02	
494 NANCY'S CREEK - WP-106	2/12/2008	1		5.18E+02	
494 NANCY'S CREEK - WP-106	2/19/2008	1		3.07E+02	
494 NANCY'S CREEK - WP-106	2/25/2008	1		5.21E+02	
494 NANCY'S CREEK - WP-106	3/5/2008	1		5.38E+02	
494 NANCY'S CREEK - WP-106	3/10/2008	1		4.82E+02	
494 NANCY'S CREEK - WP-106	3/18/2008	1		6.38E+02	
494 NANCY'S CREEK - WP-106	3/27/2008	1		4.82E+02	
494 NANCY'S CREEK - WP-106	3/31/2008	1		4.41E+02	
494 NANCY'S CREEK - WP-106	4/9/2008	1		<LLD	2.42E+02
494 NANCY'S CREEK - WP-106	4/17/2008	1		<LLD	2.49E+02
494 NANCY'S CREEK - WP-106	4/24/2008	1		6.58E+02	
494 NANCY'S CREEK - WP-106	4/30/2008	1		3.77E+02	
494 NANCY'S CREEK - WP-106	5/6/2008	1		<LLD	2.45E+02
494 NANCY'S CREEK - WP-106	5/14/2008	1		<LLD	2.39E+02
494 NANCY'S CREEK - WP-106	5/21/2008	1		<LLD	2.52E+02
494 NANCY'S CREEK - WP-106	5/27/2008	1		4.01E+02	
494 NANCY'S CREEK - WP-106	6/3/2008	1		<LLD	2.48E+02
494 NANCY'S CREEK - WP-106	6/10/2008	1		<LLD	2.49E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
494	NANCY'S CREEK - WP-106	6/17/2008	1	<LLD	2.38E+02
494	NANCY'S CREEK - WP-106	6/24/2008	1	3.11E+02	
494	NANCY'S CREEK - WP-106	7/1/2008	1	<LLD	2.38E+02
494	NANCY'S CREEK - WP-106	7/8/2008	1	<LLD	2.44E+02
494	NANCY'S CREEK - WP-106	7/15/2008	1	<LLD	2.44E+02
494	NANCY'S CREEK - WP-106	7/22/2008	1	3.54E+02	
494	NANCY'S CREEK - WP-106	7/29/2008	1	<LLD	2.43E+02
494	NANCY'S CREEK - WP-106	8/5/2008	1	<LLD	2.43E+02
494	NANCY'S CREEK - WP-106	8/12/2008	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	8/19/2008	1	<LLD	2.44E+02
494	NANCY'S CREEK - WP-106	8/26/2008	1	<LLD	2.50E+02
494	NANCY'S CREEK - WP-106	9/2/2008	1	<LLD	2.42E+02
494	NANCY'S CREEK - WP-106	9/9/2008	1	<LLD	2.39E+02
494	NANCY'S CREEK - WP-106	9/16/2008	1	<LLD	2.48E+02
494	NANCY'S CREEK - WP-106	9/23/2008	1	<LLD	2.41E+02
494	NANCY'S CREEK - WP-106	10/1/2008	1	<LLD	2.45E+02
494	NANCY'S CREEK - WP-106	10/7/2008	1	<LLD	2.41E+02
494	NANCY'S CREEK - WP-106	10/14/2008	1	<LLD	2.42E+02
494	NANCY'S CREEK - WP-106	10/23/2008	1	<LLD	2.40E+02
494	NANCY'S CREEK - WP-106	10/28/2008	1	<LLD	2.46E+02
494	NANCY'S CREEK - WP-106	11/4/2008	1	<LLD	2.45E+02
494	NANCY'S CREEK - WP-106	11/11/2008	1	2.97E+02	
494	NANCY'S CREEK - WP-106	11/19/2008	1	<LLD	2.45E+02
494	NANCY'S CREEK - WP-106	11/25/2008	1	<LLD	2.52E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
494	NANCY'S CREEK - WP-106	12/2/2008	1	3.11E+02	
494	NANCY'S CREEK - WP-106	12/9/2008	1	4.97E+02	
494	NANCY'S CREEK - WP-106	12/16/2008	1	3.97E+02	
494	NANCY'S CREEK - WP-106	12/22/2008	1	5.01E+02	
494	NANCY'S CREEK - WP-106	12/29/2008	1	4.16E+02	
495	NANCY'S CREEK - WP-52	1/2/2008	1	<LLD	2.30E+02
495	NANCY'S CREEK - WP-52	1/8/2008	1	<LLD	2.34E+02
495	NANCY'S CREEK - WP-52	1/15/2008	1	<LLD	2.31E+02
495	NANCY'S CREEK - WP-52	1/23/2008	1	<LLD	2.37E+02
495	NANCY'S CREEK - WP-52	1/28/2008	1	<LLD	2.45E+02
495	NANCY'S CREEK - WP-52	2/5/2008	1	<LLD	2.39E+02
495	NANCY'S CREEK - WP-52	2/12/2008	1	2.43E+02	
495	NANCY'S CREEK - WP-52	2/19/2008	1	<LLD	2.49E+02
495	NANCY'S CREEK - WP-52	2/25/2008	1	<LLD	2.48E+02
495	NANCY'S CREEK - WP-52	3/5/2008	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	3/10/2008	1	<LLD	2.55E+02
495	NANCY'S CREEK - WP-52	3/18/2008	1	<LLD	2.61E+02
495	NANCY'S CREEK - WP-52	3/26/2008	1	<LLD	2.56E+02
495	NANCY'S CREEK - WP-52	3/31/2008	1	3.33E+02	
495	NANCY'S CREEK - WP-52	4/9/2008	1	<LLD	2.47E+02
495	NANCY'S CREEK - WP-52	4/17/2008	1	<LLD	2.47E+02
495	NANCY'S CREEK - WP-52	4/24/2008	1	<LLD	2.42E+02
495	NANCY'S CREEK - WP-52	4/30/2008	1	<LLD	2.43E+02
495	NANCY'S CREEK - WP-52	5/6/2008	1	<LLD	2.42E+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>
495 NANCY'S CREEK - WP-52	5/14/2008	1		<LLD	2.41E+02
495 NANCY'S CREEK - WP-52	5/21/2008	1		<LLD	2.47E+02
495 NANCY'S CREEK - WP-52	5/27/2008	1		<LLD	2.46E+02
495 NANCY'S CREEK - WP-52	6/3/2008	1		<LLD	2.38E+02
495 NANCY'S CREEK - WP-52	6/10/2008	1		<LLD	2.38E+02
495 NANCY'S CREEK - WP-52	6/17/2008	1		<LLD	2.47E+02
495 NANCY'S CREEK - WP-52	6/24/2008	1		<LLD	2.46E+02
495 NANCY'S CREEK - WP-52	7/1/2008	1		<LLD	2.48E+02
495 NANCY'S CREEK - WP-52	7/8/2008	1		<LLD	2.41E+02
495 NANCY'S CREEK - WP-52	7/15/2008	1		<LLD	2.42E+02
495 NANCY'S CREEK - WP-52	7/22/2008	1		<LLD	2.43E+02
495 NANCY'S CREEK - WP-52	7/29/2008	1		<LLD	2.43E+02
495 NANCY'S CREEK - WP-52	8/5/2008	1		<LLD	2.38E+02
495 NANCY'S CREEK - WP-52	8/12/2008	1		<LLD	2.41E+02
495 NANCY'S CREEK - WP-52	8/19/2008	1		<LLD	2.43E+02
495 NANCY'S CREEK - WP-52	8/26/2008	1		<LLD	2.37E+02
495 NANCY'S CREEK - WP-52	9/2/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	9/9/2008	1		<LLD	2.47E+02
495 NANCY'S CREEK - WP-52	9/16/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	9/23/2008	1		<LLD	2.45E+02
495 NANCY'S CREEK - WP-52	10/1/2008	1		<LLD	2.43E+02
495 NANCY'S CREEK - WP-52	10/7/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	10/14/2008	1		<LLD	2.42E+02
495 NANCY'S CREEK - WP-52	10/23/2008	1		<LLD	2.45E+02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
495 NANCY'S CREEK - WP-52	10/28/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	11/4/2008	1		<LLD	2.40E+02
495 NANCY'S CREEK - WP-52	11/11/2008	1		<LLD	2.43E+02
495 NANCY'S CREEK - WP-52	11/19/2008	1		<LLD	2.40E+02
495 NANCY'S CREEK - WP-52	11/25/2008	1		<LLD	2.40E+02
495 NANCY'S CREEK - WP-52	12/2/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	12/9/2008	1		<LLD	2.39E+02
495 NANCY'S CREEK - WP-52	12/16/2008	1		<LLD	2.35E+02
495 NANCY'S CREEK - WP-52	12/22/2008	1		2.61E+02	
495 NANCY'S CREEK - WP-52	12/29/2008	1		3.25E+02	
495 NANCY'S CREEK - WP-52	12/30/2008	1		3.25E+02	
496 NANCY'S CREEK - WP-53	1/2/2008	1		2.65E+02	
496 NANCY'S CREEK - WP-53	1/8/2008	1		<LLD	2.37E+02
496 NANCY'S CREEK - WP-53	1/15/2008	1		<LLD	2.34E+02
496 NANCY'S CREEK - WP-53	1/23/2008	1		<LLD	2.36E+02
496 NANCY'S CREEK - WP-53	1/28/2008	1		<LLD	2.46E+02
496 NANCY'S CREEK - WP-53	2/5/2008	1		<LLD	2.41E+02
496 NANCY'S CREEK - WP-53	2/12/2008	1		2.73E+02	
496 NANCY'S CREEK - WP-53	2/19/2008	1		<LLD	2.48E+02
496 NANCY'S CREEK - WP-53	2/25/2008	1		<LLD	2.48E+02
496 NANCY'S CREEK - WP-53	3/5/2008	1		2.93E+02	
496 NANCY'S CREEK - WP-53	3/10/2008	1		2.99E+02	
496 NANCY'S CREEK - WP-53	3/18/2008	1		3.00E+02	
496 NANCY'S CREEK - WP-53	3/26/2008	1		3.33E+02	

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
496 NANCY'S CREEK - WP-53	3/31/2008	1		7.03E+02	
496 NANCY'S CREEK - WP-53	4/9/2008	1		<LLD	2.47E+02
496 NANCY'S CREEK - WP-53	4/17/2008	1		<LLD	2.47E+02
496 NANCY'S CREEK - WP-53	4/24/2008	1		<LLD	2.41E+02
496 NANCY'S CREEK - WP-53	4/30/2008	1		<LLD	2.46E+02
496 NANCY'S CREEK - WP-53	5/6/2008	1		<LLD	2.41E+02
496 NANCY'S CREEK - WP-53	5/14/2008	1		<LLD	2.40E+02
496 NANCY'S CREEK - WP-53	5/21/2008	1		<LLD	2.44E+02
496 NANCY'S CREEK - WP-53	5/27/2008	1		3.92E+02	
496 NANCY'S CREEK - WP-53	6/3/2008	1		<LLD	2.38E+02
496 NANCY'S CREEK - WP-53	6/10/2008	1		<LLD	2.38E+02
496 NANCY'S CREEK - WP-53	6/17/2008	1		<LLD	2.46E+02
496 NANCY'S CREEK - WP-53	6/24/2008	1		<LLD	2.44E+02
496 NANCY'S CREEK - WP-53	7/1/2008	1		<LLD	2.46E+02
496 NANCY'S CREEK - WP-53	7/8/2008	1		<LLD	2.43E+02
496 NANCY'S CREEK - WP-53	7/15/2008	1		<LLD	2.41E+02
496 NANCY'S CREEK - WP-53	7/22/2008	1		<LLD	2.44E+02
496 NANCY'S CREEK - WP-53	7/29/2008	1		<LLD	2.44E+02
496 NANCY'S CREEK - WP-53	8/5/2008	1		<LLD	2.38E+02
496 NANCY'S CREEK - WP-53	8/12/2008	1		<LLD	2.42E+02
496 NANCY'S CREEK - WP-53	8/19/2008	1		<LLD	2.44E+02
496 NANCY'S CREEK - WP-53	8/26/2008	1		<LLD	2.37E+02
496 NANCY'S CREEK - WP-53	9/2/2008	1		<LLD	2.38E+02
496 NANCY'S CREEK - WP-53	9/9/2008	1		<LLD	2.48E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
496	NANCY'S CREEK - WP-53	9/16/2008	1	<LLD	2.40E+02
496	NANCY'S CREEK - WP-53	9/23/2008	1	<LLD	2.46E+02
496	NANCY'S CREEK - WP-53	10/1/2008	1	<LLD	2.43E+02
496	NANCY'S CREEK - WP-53	10/7/2008	1	<LLD	2.37E+02
496	NANCY'S CREEK - WP-53	10/14/2008	1	<LLD	2.41E+02
496	NANCY'S CREEK - WP-53	10/23/2008	1	2.51E+02	
496	NANCY'S CREEK - WP-53	10/28/2008	1	<LLD	2.39E+02
496	NANCY'S CREEK - WP-53	11/4/2008	1	<LLD	2.38E+02
496	NANCY'S CREEK - WP-53	11/11/2008	1	<LLD	2.44E+02
496	NANCY'S CREEK - WP-53	11/19/2008	1	<LLD	2.43E+02
496	NANCY'S CREEK - WP-53	11/25/2008	1	<LLD	2.39E+02
496	NANCY'S CREEK - WP-53	12/2/2008	1	2.62E+02	
496	NANCY'S CREEK - WP-53	12/9/2008	1	3.34E+02	
496	NANCY'S CREEK - WP-53	12/16/2008	1	<LLD	2.38E+02
496	NANCY'S CREEK - WP-53	12/22/2008	1	<LLD	2.34E+02
496	NANCY'S CREEK - WP-53	12/30/2008	1	3.96E+02	
497	NANCY'S CREEK - WP-55	1/2/2008	1	3.66E+02	
497	NANCY'S CREEK - WP-55	1/8/2008	1	<LLD	2.33E+02
497	NANCY'S CREEK - WP-55	1/15/2008	1	<LLD	2.32E+02
497	NANCY'S CREEK - WP-55	1/23/2008	1	<LLD	2.36E+02
497	NANCY'S CREEK - WP-55	1/28/2008	1	<LLD	2.44E+02
497	NANCY'S CREEK - WP-55	2/5/2008	1	2.60E+02	
497	NANCY'S CREEK - WP-55	2/12/2008	1	3.37E+02	
497	NANCY'S CREEK - WP-55	2/19/2008	1	<LLD	2.52E+02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
497 NANCY'S CREEK - WP-55	2/25/2008	1		2.77E+02	
497 NANCY'S CREEK - WP-55	3/5/2008	1		<LLD	2.48E+02
497 NANCY'S CREEK - WP-55	3/10/2008	1		3.34E+02	
497 NANCY'S CREEK - WP-55	3/18/2008	1		4.02E+02	
497 NANCY'S CREEK - WP-55	3/26/2008	1		4.80E+02	
497 NANCY'S CREEK - WP-55	3/31/2008	1		7.19E+02	
497 NANCY'S CREEK - WP-55	4/9/2008	1		<LLD	2.46E+02
497 NANCY'S CREEK - WP-55	4/17/2008	1		<LLD	2.49E+02
497 NANCY'S CREEK - WP-55	4/24/2008	1		3.17E+02	
497 NANCY'S CREEK - WP-55	4/30/2008	1		<LLD	2.46E+02
497 NANCY'S CREEK - WP-55	5/6/2008	1		<LLD	2.39E+02
497 NANCY'S CREEK - WP-55	5/14/2008	1		<LLD	2.41E+02
497 NANCY'S CREEK - WP-55	5/21/2008	1		<LLD	2.45E+02
497 NANCY'S CREEK - WP-55	5/27/2008	1		2.78E+02	
497 NANCY'S CREEK - WP-55	6/3/2008	1		<LLD	2.44E+02
497 NANCY'S CREEK - WP-55	6/10/2008	1		<LLD	2.38E+02
497 NANCY'S CREEK - WP-55	6/17/2008	1		<LLD	2.47E+02
497 NANCY'S CREEK - WP-55	6/24/2008	1		<LLD	2.40E+02
497 NANCY'S CREEK - WP-55	7/1/2008	1		<LLD	2.47E+02
497 NANCY'S CREEK - WP-55	7/8/2008	1		<LLD	2.44E+02
497 NANCY'S CREEK - WP-55	7/15/2008	1		<LLD	2.38E+02
497 NANCY'S CREEK - WP-55	7/22/2008	1		<LLD	2.45E+02
497 NANCY'S CREEK - WP-55	7/29/2008	1		<LLD	2.45E+02
497 NANCY'S CREEK - WP-55	8/5/2008	1		<LLD	2.41E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
497	NANCY'S CREEK - WP-55	8/12/2008	1	<LLD	2.38E+02
497	NANCY'S CREEK - WP-55	8/19/2008	1	<LLD	2.46E+02
497	NANCY'S CREEK - WP-55	8/26/2008	1	<LLD	2.39E+02
497	NANCY'S CREEK - WP-55	9/2/2008	1	<LLD	2.41E+02
497	NANCY'S CREEK - WP-55	9/9/2008	1	<LLD	2.49E+02
497	NANCY'S CREEK - WP-55	9/16/2008	1	<LLD	2.41E+02
497	NANCY'S CREEK - WP-55	9/23/2008	1	<LLD	2.42E+02
497	NANCY'S CREEK - WP-55	10/1/2008	1	<LLD	2.43E+02
497	NANCY'S CREEK - WP-55	10/7/2008	1	<LLD	2.38E+02
497	NANCY'S CREEK - WP-55	10/14/2008	1	<LLD	2.40E+02
497	NANCY'S CREEK - WP-55	10/23/2008	1	<LLD	2.43E+02
497	NANCY'S CREEK - WP-55	10/28/2008	1	<LLD	2.48E+02
497	NANCY'S CREEK - WP-55	11/4/2008	1	<LLD	2.39E+02
497	NANCY'S CREEK - WP-55	11/11/2008	1	<LLD	2.43E+02
497	NANCY'S CREEK - WP-55	11/19/2008	1	<LLD	2.47E+02
497	NANCY'S CREEK - WP-55	11/25/2008	1	<LLD	2.40E+02
497	NANCY'S CREEK - WP-55	12/2/2008	1	2.48E+02	
497	NANCY'S CREEK - WP-55	12/9/2008	1	4.66E+02	
497	NANCY'S CREEK - WP-55	12/16/2008	1	<LLD	2.38E+02
497	NANCY'S CREEK - WP-55	12/22/2008	1	3.45E+02	
497	NANCY'S CREEK - WP-55	12/30/2008	1	3.48E+02	
498	NANCY'S CREEK - WP-57	1/2/2008	1	3.82E+02	
498	NANCY'S CREEK - WP-57	1/8/2008	1	<LLD	2.36E+02
498	NANCY'S CREEK - WP-57	1/15/2008	1	<LLD	2.40E+02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
498 NANCY'S CREEK - WP-57	1/23/2008	1		<LLD	2.38E+02
498 NANCY'S CREEK - WP-57	1/28/2008	1		<LLD	3.10E+02
498 NANCY'S CREEK - WP-57	2/5/2008	1		2.92E+02	
498 NANCY'S CREEK - WP-57	2/12/2008	1		4.63E+02	
498 NANCY'S CREEK - WP-57	2/19/2008	1		<LLD	2.50E+02
498 NANCY'S CREEK - WP-57	2/25/2008	1		3.72E+02	
498 NANCY'S CREEK - WP-57	3/5/2008	1		<LLD	2.48E+02
498 NANCY'S CREEK - WP-57	3/10/2008	1		4.52E+02	
498 NANCY'S CREEK - WP-57	3/18/2008	1		3.86E+02	
498 NANCY'S CREEK - WP-57	3/27/2008	1		2.80E+02	
498 NANCY'S CREEK - WP-57	3/31/2008	1		5.29E+02	
498 NANCY'S CREEK - WP-57	4/9/2008	1		<LLD	2.47E+02
498 NANCY'S CREEK - WP-57	4/17/2008	1		<LLD	2.51E+02
498 NANCY'S CREEK - WP-57	4/24/2008	1		4.79E+02	
498 NANCY'S CREEK - WP-57	4/30/2008	1		<LLD	2.47E+02
498 NANCY'S CREEK - WP-57	5/6/2008	1		<LLD	2.40E+02
498 NANCY'S CREEK - WP-57	5/14/2008	1		<LLD	2.42E+02
498 NANCY'S CREEK - WP-57	5/21/2008	1		<LLD	2.45E+02
498 NANCY'S CREEK - WP-57	5/27/2008	1		<LLD	2.43E+02
498 NANCY'S CREEK - WP-57	6/3/2008	1		<LLD	2.45E+02
498 NANCY'S CREEK - WP-57	6/10/2008	1		<LLD	2.47E+02
498 NANCY'S CREEK - WP-57	6/17/2008	1		<LLD	2.51E+02
498 NANCY'S CREEK - WP-57	6/24/2008	1		<LLD	2.41E+02
498 NANCY'S CREEK - WP-57	7/1/2008	1		<LLD	2.48E+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>
498 NANCY'S CREEK - WP-57	7/8/2008	1		<LLD	2.45E+02
498 NANCY'S CREEK - WP-57	7/15/2008	1		3.19E+02	
498 NANCY'S CREEK - WP-57	7/22/2008	1		<LLD	2.46E+02
498 NANCY'S CREEK - WP-57	7/29/2008	1		<LLD	2.46E+02
498 NANCY'S CREEK - WP-57	8/5/2008	1		<LLD	2.40E+02
498 NANCY'S CREEK - WP-57	8/12/2008	1		<LLD	2.38E+02
498 NANCY'S CREEK - WP-57	8/19/2008	1		<LLD	2.45E+02
498 NANCY'S CREEK - WP-57	8/26/2008	1		<LLD	2.48E+02
498 NANCY'S CREEK - WP-57	9/2/2008	1		<LLD	2.40E+02
498 NANCY'S CREEK - WP-57	9/9/2008	1		<LLD	2.48E+02
498 NANCY'S CREEK - WP-57	9/16/2008	1		<LLD	2.42E+02
498 NANCY'S CREEK - WP-57	9/23/2008	1		<LLD	2.43E+02
498 NANCY'S CREEK - WP-57	10/1/2008	1		<LLD	2.46E+02
498 NANCY'S CREEK - WP-57	10/7/2008	1		<LLD	2.40E+02
498 NANCY'S CREEK - WP-57	10/14/2008	1		<LLD	2.41E+02
498 NANCY'S CREEK - WP-57	10/23/2008	1		<LLD	2.44E+02
498 NANCY'S CREEK - WP-57	10/28/2008	1		<LLD	2.48E+02
498 NANCY'S CREEK - WP-57	11/4/2008	1		<LLD	2.40E+02
498 NANCY'S CREEK - WP-57	11/11/2008	1		<LLD	2.44E+02
498 NANCY'S CREEK - WP-57	11/19/2008	1		<LLD	2.48E+02
498 NANCY'S CREEK - WP-57	11/25/2008	1		<LLD	2.45E+02
498 NANCY'S CREEK - WP-57	12/2/2008	1		<LLD	2.38E+02
498 NANCY'S CREEK - WP-57	12/9/2008	1		5.51E+02	
498 NANCY'S CREEK - WP-57	12/16/2008	1		<LLD	2.39E+02



# ***BSEP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>LLD</b></i>
498 NANCY'S CREEK - WP-57	12/22/2008	1		6.66E+02	
498 NANCY'S CREEK - WP-57	12/30/2008	1		4.46E+02	
499 CAPE FEAR RIVER - WP-61 - CONTROL	1/8/2008	1		<LLD	2.41E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	1/15/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	1/23/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	1/28/2008	1		<LLD	2.39E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	2/5/2008	1		<LLD	2.39E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	2/12/2008	1		<LLD	2.47E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	2/19/2008	1		<LLD	2.49E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	2/25/2008	1		<LLD	2.50E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	3/5/2008	1		<LLD	2.47E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	3/10/2008	1		<LLD	2.56E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	3/18/2008	1		<LLD	2.52E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	3/26/2008	1		<LLD	2.57E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	3/31/2008	1		<LLD	2.53E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	4/9/2008	1		<LLD	2.48E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	4/17/2008	1		<LLD	2.53E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	4/24/2008	1		<LLD	2.44E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	4/30/2008	1		<LLD	2.46E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	5/6/2008	1		<LLD	2.44E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	5/14/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	5/21/2008	1		<LLD	2.50E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	5/27/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	6/3/2008	1		<LLD	2.38E+02

# BSEP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Efficiency	Activity	LLD
499 CAPE FEAR RIVER - WP-61 - CONTROL	6/10/2008	1		<LLD	2.46E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	6/17/2008	1		<LLD	2.49E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	6/24/2008	1		<LLD	2.44E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	7/1/2008	1		<LLD	2.46E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	7/8/2008	1		<LLD	2.39E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	7/15/2008	1		<LLD	2.44E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	7/22/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	7/29/2008	1		<LLD	2.41E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	8/5/2008	1		<LLD	2.37E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	8/12/2008	1		<LLD	2.40E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	8/19/2008	1		<LLD	2.43E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	8/26/2008	1		<LLD	2.37E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	9/2/2008	1		<LLD	2.38E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	9/9/2008	1		<LLD	2.48E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	9/16/2008	1		<LLD	2.40E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	10/1/2008	1		<LLD	2.43E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	10/7/2008	1		<LLD	2.39E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	10/14/2008	1		<LLD	2.44E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	10/23/2008	1		<LLD	2.43E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	10/28/2008	1		<LLD	2.48E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	11/4/2008	1		<LLD	2.48E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	11/11/2008	1		<LLD	2.42E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	11/19/2008	1		<LLD	2.40E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	11/25/2008	1		<LLD	2.36E+02

# ***BSEP Radiological Environmental Monitoring Analysis Report***

*Media Type: Surface Water*

*Quantity: Liters*

*Concentration (Activity): pCi/Liter*

*Analysis: Tritium*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Efficiency</i></b>	<b><i>Activity</i></b>	<b><i>LLD</i></b>
499 CAPE FEAR RIVER - WP-61 - CONTROL	12/2/2008	1		<LLD	2.41E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	12/9/2008	1		<LLD	2.37E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	12/16/2008	1		<LLD	2.37E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	12/22/2008	1		<LLD	2.37E+02
499 CAPE FEAR RIVER - WP-61 - CONTROL	12/30/2008	1		<LLD	2.37E+02

# 2008 BSEP

## Radiological Environmental Monitoring

### Gamma Isotopic Report

#### Comments

- All AC and AP samples were available during 2008.
- 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\*.
- Gamma results are Less than LLD (< LLD) and do not appear in the Gamma Isotopic Report for the following samples:
  - Fish and Invertebrate samples (706 – 708)
  - Ground Water samples (402 – 440 and 447)
  - Surface Water samples (494 – 499)

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Air Particulate*

*Quantity: CUBIC METERS*

*Concentration (Activity): pCi/cubic meter*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>
200 1.0 MI WSW - VISITORS CENTER	2/18/2008	3714.4	PB-212	1.08E-03	9.96E-04
200 1.0 MI WSW - VISITORS CENTER	2/18/2008	3714.4	BE-7	1.21E-01	1.58E-02
200 1.0 MI WSW - VISITORS CENTER	2/18/2008	3714.4	TL-208	9.18E-04	6.56E-04
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	BE-7	1.18E-01	1.59E-02
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	K-40	1.83E-02	7.32E-03
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	PB-212	9.91E-04	9.51E-04
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	BI-214	3.28E-03	1.27E-03
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	PB-214	4.58E-03	1.13E-03
200 1.0 MI WSW - VISITORS CENTER	5/19/2008	3648.5	RA-226	1.23E-02	7.88E-03
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	TH-234	1.82E-02	1.05E-02
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	RA-226	1.85E-02	9.74E-03
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	PB-214	5.92E-03	1.32E-03
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	BI-214	2.93E-03	1.35E-03
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	PB-212	9.97E-04	5.49E-04
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	BE-7	1.13E-01	1.51E-02
200 1.0 MI WSW - VISITORS CENTER	8/18/2008	3671.3	K-40	2.89E-02	7.15E-03
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	RA-226	1.85E-02	8.56E-03
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	PB-214	4.69E-03	1.31E-03
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	BI-214	3.62E-03	1.26E-03
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	BE-7	1.16E-01	1.58E-02
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	K-40	2.90E-02	1.06E-02
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	TL-208	9.61E-04	5.20E-04
200 1.0 MI WSW - VISITORS CENTER	11/17/2008	3557.6	PB-212	3.17E-03	9.39E-04
201 0.5 MI NE - PMAC	2/18/2008	3740.2	PB-214	2.44E-03	1.25E-03

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>
201 0.5 MI NE - PMAC	2/18/2008	3740.2	K-40	2.77E-02	9.86E-03
201 0.5 MI NE - PMAC	2/18/2008	3740.2	BE-7	1.44E-01	1.50E-02
201 0.5 MI NE - PMAC	5/19/2008	3616.3	BE-7	1.25E-01	2.12E-02
201 0.5 MI NE - PMAC	5/19/2008	3616.3	BI-214	2.77E-03	1.49E-03
201 0.5 MI NE - PMAC	5/19/2008	3616.3	K-40	8.04E-02	1.68E-02
201 0.5 MI NE - PMAC	8/18/2008	3709.3	BE-7	9.68E-02	1.97E-02
201 0.5 MI NE - PMAC	8/18/2008	3709.3	BI-214	3.78E-03	2.17E-03
201 0.5 MI NE - PMAC	8/18/2008	3709.3	K-40	6.88E-02	1.56E-02
201 0.5 MI NE - PMAC	11/17/2008	3717	K-40	1.04E-01	1.79E-02
201 0.5 MI NE - PMAC	11/17/2008	3717	PB-212	1.56E-03	8.52E-04
201 0.5 MI NE - PMAC	11/17/2008	3717	BI-214	3.93E-03	2.03E-03
201 0.5 MI NE - PMAC	11/17/2008	3717	PB-214	3.82E-03	1.68E-03
201 0.5 MI NE - PMAC	11/17/2008	3717	BE-7	1.12E-01	2.14E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/18/2008	3629.2	PB-214	3.19E-03	1.24E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/18/2008	3629.2	BE-7	1.22E-01	1.44E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	2/18/2008	3629.2	BI-214	2.78E-03	1.62E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/19/2008	3613.8	BE-7	1.46E-01	2.01E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/19/2008	3613.8	K-40	5.50E-02	1.31E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/19/2008	3613.8	BI-214	2.89E-03	1.32E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	5/19/2008	3613.8	PB-214	2.07E-03	1.19E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/18/2008	3668.4	BE-7	1.06E-01	1.95E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	8/18/2008	3668.4	K-40	5.79E-02	1.27E-02
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	TL-208	9.00E-04	6.04E-04
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	PB-212	1.02E-03	6.36E-04

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	BI-214	3.94E-03	1.58E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	PB-214	5.37E-03	1.25E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	RA-226	1.91E-02	8.80E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	K-40	2.60E-02	9.83E-03
202 1.0 MI S - SUBSTATION ON CONSTRUCTION RD	11/17/2008	3580.6	BE-7	1.20E-01	1.56E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	PB-214	2.99E-03	1.34E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	TL-208	5.66E-04	4.55E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	K-40	3.84E-02	1.10E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	BE-7	1.25E-01	1.55E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	BI-214	4.02E-03	1.54E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	2/18/2008	3719.2	PB-212	1.49E-03	7.45E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	TL-208	7.58E-04	4.63E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	PB-212	1.80E-03	4.51E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	BE-7	1.42E-01	1.76E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	BI-214	6.96E-03	1.56E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	PB-214	6.74E-03	1.32E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	RA-226	1.09E-02	7.89E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	5/19/2008	3731.7	K-40	1.72E-02	8.61E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	PB-214	5.48E-03	1.31E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	TH-234	1.09E-02	1.03E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	RA-226	1.54E-02	6.90E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	BI-214	4.82E-03	1.30E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	BE-7	1.13E-01	1.38E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	K-40	4.18E-02	8.21E-03

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	TL-208	5.28E-04	4.17E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	8/18/2008	3835.9	PB-212	1.35E-03	6.25E-04
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	BE-7	1.10E-01	1.66E-02
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	PB-214	3.74E-03	1.14E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	K-40	1.84E-02	8.12E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	RA-226	1.73E-02	9.61E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	TH-234	1.54E-02	8.89E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	BI-214	3.34E-03	1.31E-03
203 2.0 MI SSW - SOUTHPORT SUBSTATION	11/17/2008	3721.1	PB-212	1.43E-03	4.91E-04
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	3595.6	PB-214	3.65E-03	1.31E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	3595.6	BI-214	4.76E-03	1.63E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	3595.6	BE-7	1.40E-01	1.75E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	2/18/2008	3595.6	PB-212	8.69E-04	7.41E-04
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	3602.6	K-40	6.25E-02	1.60E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	3602.6	PB-214	4.56E-03	1.57E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	3602.6	BE-7	1.18E-01	2.12E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	5/19/2008	3602.6	BI-214	6.40E-03	2.02E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	RA-226	1.86E-02	9.48E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	BE-7	1.10E-01	1.65E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	PB-214	5.49E-03	1.47E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	TH-234	1.22E-02	1.06E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	BI-214	4.97E-03	1.41E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	PB-212	1.21E-03	6.02E-04
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	8/18/2008	3745.5	K-40	2.30E-02	9.17E-03



# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	TH-234	2.08E-02	1.18E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	PB-214	4.90E-03	1.09E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	BI-214	5.24E-03	1.49E-03
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	PB-212	2.89E-03	9.77E-04
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	K-40	3.16E-02	1.00E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	BE-7	1.29E-01	1.65E-02
204 22.4 MI NNE - SUTTON PLANT (CONTROL)	11/17/2008	3559.8	TL-208	7.88E-04	7.06E-04
205 0.6 MI SSE - SPOIL POND	2/18/2008	3638.1	PB-214	1.55E-03	1.40E-03
205 0.6 MI SSE - SPOIL POND	2/18/2008	3638.1	BE-7	1.27E-01	1.91E-02
205 0.6 MI SSE - SPOIL POND	5/19/2008	3745.1	K-40	5.14E-02	1.30E-02
205 0.6 MI SSE - SPOIL POND	5/19/2008	3745.1	PB-212	8.83E-04	1.97E-04
205 0.6 MI SSE - SPOIL POND	5/19/2008	3745.1	BI-214	1.25E-02	2.23E-03
205 0.6 MI SSE - SPOIL POND	5/19/2008	3745.1	PB-214	1.29E-02	1.79E-03
205 0.6 MI SSE - SPOIL POND	5/19/2008	3745.1	BE-7	1.37E-01	1.85E-02
205 0.6 MI SSE - SPOIL POND	8/18/2008	3810.5	K-40	7.55E-02	1.56E-02
205 0.6 MI SSE - SPOIL POND	8/18/2008	3810.5	RA-226	1.56E-02	1.22E-02
205 0.6 MI SSE - SPOIL POND	8/18/2008	3810.5	BE-7	1.15E-01	2.30E-02
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	BE-7	1.05E-01	1.68E-02
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	K-40	2.65E-02	8.50E-03
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	TL-208	1.18E-03	6.01E-04
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	PB-212	1.79E-03	5.85E-04
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	BI-214	3.93E-03	1.47E-03
205 0.6 MI SSE - SPOIL POND	11/17/2008	3671.6	PB-214	2.25E-03	1.34E-03

# BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
800 0.7 MI NE - INTAKE CANAL	1/2/2008	414.2	K-40	1.71E+00	5.08E-01
800 0.7 MI NE - INTAKE CANAL	1/2/2008	414.2	TL-208	3.50E-02	2.21E-02
800 0.7 MI NE - INTAKE CANAL	1/2/2008	414.2	BE-7	1.24E+00	2.34E-01
800 0.7 MI NE - INTAKE CANAL	2/1/2008	470.2	BE-7	2.49E+00	2.85E-01
800 0.7 MI NE - INTAKE CANAL	2/1/2008	470.2	K-40	1.46E+00	4.13E-01
800 0.7 MI NE - INTAKE CANAL	2/1/2008	470.2	TL-208	1.88E-02	1.66E-02
800 0.7 MI NE - INTAKE CANAL	3/3/2008	480.1	BE-7	2.15E+00	2.90E-01
800 0.7 MI NE - INTAKE CANAL	3/3/2008	480.1	K-40	1.72E+00	4.66E-01
800 0.7 MI NE - INTAKE CANAL	3/3/2008	480.1	BI-214	7.39E-02	4.64E-02
800 0.7 MI NE - INTAKE CANAL	4/1/2008	436.7	BI-214	7.25E-02	4.76E-02
800 0.7 MI NE - INTAKE CANAL	4/1/2008	436.7	PB-214	7.75E-02	5.68E-02
800 0.7 MI NE - INTAKE CANAL	4/1/2008	436.7	BE-7	3.24E+00	3.41E-01
800 0.7 MI NE - INTAKE CANAL	4/1/2008	436.7	K-40	2.48E+00	5.13E-01
800 0.7 MI NE - INTAKE CANAL	4/1/2008	436.7	PB-212	3.84E-02	3.48E-02
800 0.7 MI NE - INTAKE CANAL	5/1/2008	559.4	BE-7	1.19E+00	2.17E-01
800 0.7 MI NE - INTAKE CANAL	5/1/2008	559.4	K-40	3.19E+00	4.88E-01
800 0.7 MI NE - INTAKE CANAL	5/1/2008	559.4	PB-212	3.92E-02	3.10E-02
800 0.7 MI NE - INTAKE CANAL	6/2/2008	380.4	K-40	2.55E+00	5.75E-01
800 0.7 MI NE - INTAKE CANAL	6/2/2008	380.4	PB-212	4.79E-02	3.82E-02

# BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
800 0.7 MI NE - INTAKE CANAL	6/2/2008	380.4	BE-7	7.21E-01	2.62E-01
800 0.7 MI NE - INTAKE CANAL	7/1/2008	413	K-40	3.76E+00	5.34E-01
800 0.7 MI NE - INTAKE CANAL	7/1/2008	413	PB-212	3.52E-02	2.71E-02
800 0.7 MI NE - INTAKE CANAL	7/1/2008	413	BI-214	4.69E-02	3.30E-02
800 0.7 MI NE - INTAKE CANAL	7/1/2008	413	BE-7	1.13E+00	2.27E-01
800 0.7 MI NE - INTAKE CANAL	8/1/2008	495.6	K-40	2.70E+00	4.11E-01
800 0.7 MI NE - INTAKE CANAL	8/1/2008	495.6	BE-7	1.95E+00	2.98E-01
800 0.7 MI NE - INTAKE CANAL	8/1/2008	495.6	BI-214	4.85E-02	4.06E-02
800 0.7 MI NE - INTAKE CANAL	9/2/2008	533.6	K-40	3.98E+00	5.20E-01
800 0.7 MI NE - INTAKE CANAL	9/2/2008	533.6	PB-212	6.07E-02	3.08E-02
800 0.7 MI NE - INTAKE CANAL	9/2/2008	533.6	BE-7	1.23E+00	2.59E-01
800 0.7 MI NE - INTAKE CANAL	9/2/2008	533.6	PB-214	2.02E-01	4.95E-02
800 0.7 MI NE - INTAKE CANAL	9/2/2008	533.6	BI-214	2.03E-01	6.12E-02
800 0.7 MI NE - INTAKE CANAL	10/1/2008	529.9	BE-7	1.29E+00	2.28E-01
800 0.7 MI NE - INTAKE CANAL	10/1/2008	529.9	BI-214	8.87E-02	4.68E-02
800 0.7 MI NE - INTAKE CANAL	10/1/2008	529.9	TL-208	4.53E-02	1.74E-02
800 0.7 MI NE - INTAKE CANAL	10/1/2008	529.9	K-40	2.57E+00	3.84E-01
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	K-40	2.29E+00	2.74E-01
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	RA-226	5.15E-01	2.24E-01

# BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	PB-214	6.56E-02	2.69E-02
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	BI-214	5.93E-02	2.94E-02
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	TL-208	1.36E-02	9.34E-03
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	BE-7	1.40E+00	1.82E-01
800 0.7 MI NE - INTAKE CANAL	11/1/2008	521.6	PB-212	2.93E-02	1.65E-02
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	RA-226	5.75E-01	3.55E-01
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	BI-214	8.40E-02	2.84E-02
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	PB-212	2.72E-02	2.14E-02
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	K-40	2.08E+00	3.37E-01
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	BE-7	1.89E+00	2.46E-01
800 0.7 MI NE - INTAKE CANAL	12/1/2008	468.4	TH-234	6.13E-01	5.49E-01
801 0.8 MI SW - DISCHARGE CANAL	1/2/2008	409.7	PB-212	3.88E-02	3.55E-02
801 0.8 MI SW - DISCHARGE CANAL	1/2/2008	409.7	K-40	1.57E+00	3.82E-01
801 0.8 MI SW - DISCHARGE CANAL	1/2/2008	409.7	PB-214	5.03E-02	4.02E-02
801 0.8 MI SW - DISCHARGE CANAL	1/2/2008	409.7	BE-7	1.43E+00	2.32E-01
801 0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	PB-212	5.56E-02	2.94E-02
801 0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	K-40	1.70E+00	3.61E-01
801 0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	BE-7	2.39E+00	2.48E-01
801 0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	PB-214	4.83E-02	3.80E-02

# *BNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
801	0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	TL-208	2.02E-02	1.48E-02
801	0.8 MI SW - DISCHARGE CANAL	2/1/2008	455.8	BI-214	3.46E-02	3.19E-02
801	0.8 MI SW - DISCHARGE CANAL	3/3/2008	471.4	BE-7	2.90E+00	2.76E-01
801	0.8 MI SW - DISCHARGE CANAL	3/3/2008	471.4	K-40	1.38E+00	3.15E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2008	554.7	BI-214	3.74E-02	2.59E-02
801	0.8 MI SW - DISCHARGE CANAL	4/1/2008	554.7	K-40	1.69E+00	2.99E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2008	554.7	BE-7	1.37E+00	1.71E-01
801	0.8 MI SW - DISCHARGE CANAL	4/1/2008	554.7	PB-212	2.83E-02	2.12E-02
801	0.8 MI SW - DISCHARGE CANAL	5/1/2008	590.7	K-40	2.76E+00	4.99E-01
801	0.8 MI SW - DISCHARGE CANAL	5/1/2008	590.7	BE-7	1.11E+00	1.96E-01
801	0.8 MI SW - DISCHARGE CANAL	6/2/2008	385.1	BE-7	7.33E-01	2.06E-01
801	0.8 MI SW - DISCHARGE CANAL	6/2/2008	385.1	K-40	2.40E+00	5.88E-01
801	0.8 MI SW - DISCHARGE CANAL	6/2/2008	385.1	PB-212	3.59E-02	3.40E-02
801	0.8 MI SW - DISCHARGE CANAL	6/2/2008	385.1	RA-226	4.97E-01	4.84E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	TL-208	2.18E-02	1.71E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	K-40	2.84E+00	4.24E-01
801	0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	PB-212	5.31E-02	2.60E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	BI-214	1.10E-01	3.39E-02
801	0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	PB-214	8.62E-02	3.18E-02

# *BNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
801 0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	RA-226	4.43E-01	3.02E-01
801 0.8 MI SW - DISCHARGE CANAL	7/1/2008	451.3	BE-7	1.48E+00	2.26E-01
801 0.8 MI SW - DISCHARGE CANAL	8/1/2008	442.7	PB-214	1.01E-01	3.79E-02
801 0.8 MI SW - DISCHARGE CANAL	8/1/2008	442.7	K-40	2.51E+00	4.00E-01
801 0.8 MI SW - DISCHARGE CANAL	8/1/2008	442.7	BE-7	7.04E-01	1.92E-01
801 0.8 MI SW - DISCHARGE CANAL	8/1/2008	442.7	BI-214	7.45E-02	4.24E-02
801 0.8 MI SW - DISCHARGE CANAL	9/2/2008	533.5	PB-214	1.13E-01	5.32E-02
801 0.8 MI SW - DISCHARGE CANAL	9/2/2008	533.5	PB-212	9.24E-02	4.20E-02
801 0.8 MI SW - DISCHARGE CANAL	9/2/2008	533.5	BE-7	1.43E+00	2.49E-01
801 0.8 MI SW - DISCHARGE CANAL	9/2/2008	533.5	BI-214	1.53E-01	4.82E-02
801 0.8 MI SW - DISCHARGE CANAL	9/2/2008	533.5	K-40	3.08E+00	4.29E-01
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	BE-7	1.81E+00	2.76E-01
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	K-40	1.99E+00	3.50E-01
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	TL-208	1.60E-02	1.52E-02
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	PB-212	6.28E-02	2.72E-02
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	BI-214	1.32E-01	4.12E-02
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	PB-214	1.42E-01	4.00E-02
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	TH-234	7.29E-01	5.14E-01
801 0.8 MI SW - DISCHARGE CANAL	10/1/2008	481.9	RA-226	6.18E-01	3.27E-01

# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	
801	0.8 MI SW - DISCHARGE CANAL	11/1/2008	437.8	K-40	3.46E+00	5.10E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2008	437.8	BI-214	7.08E-02	5.14E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2008	437.8	PB-214	9.75E-02	5.37E-02
801	0.8 MI SW - DISCHARGE CANAL	11/1/2008	437.8	BE-7	1.17E+00	2.51E-01
801	0.8 MI SW - DISCHARGE CANAL	11/1/2008	437.8	TH-234	1.29E+00	8.83E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	BE-7	1.66E+00	2.68E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	K-40	2.30E+00	3.72E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	PB-212	9.14E-02	3.47E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	BI-214	6.14E-02	2.77E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	RA-226	6.05E-01	3.11E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	AC-228	9.04E-02	6.84E-02
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	TH-234	7.58E-01	5.29E-01
801	0.8 MI SW - DISCHARGE CANAL	12/1/2008	428.1	TL-208	2.88E-02	1.76E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2008	390.1	PB-212	5.01E-02	3.59E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2008	390.1	PB-214	6.78E-02	4.90E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2008	390.1	BE-7	2.35E+00	2.68E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2008	390.1	BI-214	5.19E-02	4.45E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	1/2/2008	390.1	K-40	1.20E+00	3.66E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2008	608	BE-7	2.21E+00	2.25E-01

# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	2/1/2008	608	K-40	7.94E-01	2.65E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	TL-208	1.98E-02	1.90E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	PB-212	7.86E-02	3.00E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	BI-214	1.04E-01	3.65E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	K-40	1.02E+00	3.13E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	BE-7	2.78E+00	2.80E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	3/3/2008	493.4	PB-214	4.66E-02	3.84E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2008	391.8	BE-7	4.63E+00	3.62E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2008	391.8	PB-212	1.02E-01	4.33E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	4/1/2008	391.8	K-40	1.49E+00	3.58E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2008	574.4	TL-208	1.19E-02	1.17E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2008	574.4	K-40	2.25E+00	2.99E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	5/1/2008	574.4	BE-7	1.01E+00	1.42E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/2/2008	406.4	BE-7	8.18E-01	2.57E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	6/2/2008	406.4	K-40	1.86E+00	5.32E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2008	475.5	PB-212	8.96E-02	3.20E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2008	475.5	BE-7	2.13E+00	2.79E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2008	475.5	TL-208	2.32E-02	1.81E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2008	475.5	BI-214	4.49E-02	3.35E-02



# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	7/1/2008	475.5	K-40	3.33E+00	4.89E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2008	459.4	PB-214	6.00E-02	4.48E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2008	459.4	BI-214	9.94E-02	4.96E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2008	459.4	BE-7	1.41E+00	2.74E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	8/1/2008	459.4	K-40	3.23E+00	5.02E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	PB-212	1.15E-01	4.29E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	K-40	3.75E+00	5.57E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	TL-208	6.42E-02	2.88E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	RA-226	5.29E-01	4.25E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	BI-214	1.38E-01	5.82E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	PB-214	9.00E-02	5.36E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	BE-7	1.57E+00	2.79E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	9/2/2008	468.8	AC-228	1.92E-01	8.91E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2008	455.8	K-40	2.78E+00	4.40E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2008	455.8	BI-214	1.36E-01	3.91E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2008	455.8	BE-7	1.30E+00	2.94E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	10/1/2008	455.8	PB-212	5.95E-02	3.85E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	BI-214	1.43E-01	4.34E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	BE-7	2.08E+00	2.66E-01

# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	AC-228	5.40E-02	4.00E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	K-40	1.78E+00	3.37E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	TL-208	1.64E-02	1.55E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	PB-212	5.70E-02	2.22E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	PB-214	1.04E-01	3.75E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	11/1/2008	493.3	RA-226	4.41E-01	3.34E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	RA-226	7.80E-01	3.56E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	PB-212	5.07E-02	2.02E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	TL-208	2.11E-02	1.53E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	PB-214	9.12E-02	2.75E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	BI-214	1.10E-01	3.11E-02
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	BE-7	2.81E+00	2.79E-01
802	10.1 MI - (CONTROL) - LOCATION NOT SPECIFIED	12/1/2008	420.4	K-40	2.28E+00	3.08E-01
803	0.6 MI SSE - SPOIL POND	1/2/2008	387.5	PB-212	7.10E-02	5.81E-02
803	0.6 MI SSE - SPOIL POND	1/2/2008	387.5	K-40	1.94E+00	5.33E-01
803	0.6 MI SSE - SPOIL POND	1/2/2008	387.5	BE-7	9.46E-01	2.47E-01
803	0.6 MI SSE - SPOIL POND	2/1/2008	564.4	K-40	1.58E+00	3.78E-01
803	0.6 MI SSE - SPOIL POND	2/1/2008	564.4	BE-7	8.83E-01	2.23E-01
803	0.6 MI SSE - SPOIL POND	3/3/2008	484.7	BE-7	1.34E+00	2.16E-01

# *BNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
803 0.6 MI SSE - SPOIL POND	3/3/2008	484.7	K-40	1.59E+00	4.51E-01
803 0.6 MI SSE - SPOIL POND	4/1/2008	438.9	PB-212	5.56E-02	4.39E-02
803 0.6 MI SSE - SPOIL POND	4/1/2008	438.9	BE-7	1.67E+00	2.71E-01
803 0.6 MI SSE - SPOIL POND	4/1/2008	438.9	K-40	1.45E+00	4.36E-01
803 0.6 MI SSE - SPOIL POND	5/1/2008	525	K-40	2.67E+00	4.43E-01
803 0.6 MI SSE - SPOIL POND	5/1/2008	525	BE-7	1.07E+00	2.14E-01
803 0.6 MI SSE - SPOIL POND	6/2/2008	382.6	BE-7	7.34E-01	2.18E-01
803 0.6 MI SSE - SPOIL POND	6/2/2008	382.6	K-40	2.72E+00	6.06E-01
803 0.6 MI SSE - SPOIL POND	6/2/2008	382.6	PB-212	5.01E-02	3.70E-02
803 0.6 MI SSE - SPOIL POND	7/1/2008	500.3	BI-214	5.62E-02	3.31E-02
803 0.6 MI SSE - SPOIL POND	7/1/2008	500.3	BE-7	1.36E+00	2.16E-01
803 0.6 MI SSE - SPOIL POND	7/1/2008	500.3	PB-212	3.84E-02	2.89E-02
803 0.6 MI SSE - SPOIL POND	7/1/2008	500.3	K-40	3.05E+00	4.57E-01
803 0.6 MI SSE - SPOIL POND	7/1/2008	500.3	TL-208	1.97E-02	1.49E-02
803 0.6 MI SSE - SPOIL POND	8/1/2008	431.5	PB-212	5.93E-02	3.29E-02
803 0.6 MI SSE - SPOIL POND	8/1/2008	431.5	RA-226	6.87E-01	3.86E-01
803 0.6 MI SSE - SPOIL POND	8/1/2008	431.5	BE-7	6.67E-01	2.60E-01
803 0.6 MI SSE - SPOIL POND	8/1/2008	431.5	K-40	4.59E+00	6.13E-01
803 0.6 MI SSE - SPOIL POND	9/2/2008	473.1	PB-214	1.07E-01	5.16E-02

# *BNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
803 0.6 MI SSE - SPOIL POND	9/2/2008	473.1	BE-7	1.00E+00	2.09E-01
803 0.6 MI SSE - SPOIL POND	9/2/2008	473.1	K-40	3.51E+00	5.18E-01
803 0.6 MI SSE - SPOIL POND	9/2/2008	473.1	BI-214	1.38E-01	4.55E-02
803 0.6 MI SSE - SPOIL POND	10/1/2008	432.1	K-40	3.99E+00	5.77E-01
803 0.6 MI SSE - SPOIL POND	10/1/2008	432.1	BE-7	1.34E+00	2.68E-01
803 0.6 MI SSE - SPOIL POND	10/1/2008	432.1	PB-212	3.94E-02	3.84E-02
803 0.6 MI SSE - SPOIL POND	10/1/2008	432.1	RA-226	5.42E-01	3.07E-01
803 0.6 MI SSE - SPOIL POND	11/1/2008	449.7	K-40	4.00E+00	5.60E-01
803 0.6 MI SSE - SPOIL POND	11/1/2008	449.7	BE-7	1.08E+00	2.55E-01
803 0.6 MI SSE - SPOIL POND	11/1/2008	449.7	BI-214	1.09E-01	4.44E-02
803 0.6 MI SSE - SPOIL POND	11/1/2008	449.7	RA-226	5.65E-01	4.56E-01
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	TL-208	1.71E-02	1.36E-02
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	BI-214	6.07E-02	2.89E-02
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	PB-212	4.43E-02	1.64E-02
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	RA-226	2.88E-01	2.31E-01
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	BE-7	1.31E+00	1.88E-01
803 0.6 MI SSE - SPOIL POND	12/1/2008	482.2	K-40	2.41E+00	2.98E-01
804 0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2008	436.6	BE-7	8.88E-01	2.13E-01
804 0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2008	436.6	K-40	1.27E+00	4.19E-01

# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Broadleaf Vegetation*

*Quantity: GRAMS (wet)*

*Concentration (Activity): pCi/gm wet*

**Media:** WAX MYRTLE

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2008	436.6	BI-214	8.31E-02	5.14E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	1/2/2008	436.6	PB-214	5.04E-02	3.90E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2008	509.5	PB-212	3.71E-02	3.44E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2008	509.5	K-40	1.30E+00	3.28E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2008	509.5	BI-214	6.61E-02	3.28E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	2/1/2008	509.5	BE-7	1.92E+00	2.18E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/3/2008	506.3	K-40	1.54E+00	3.24E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/3/2008	506.3	BE-7	2.04E+00	2.22E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/3/2008	506.3	PB-214	4.59E-02	3.46E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	3/3/2008	506.3	PB-212	3.13E-02	2.39E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2008	456.1	K-40	2.26E+00	4.92E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2008	456.1	TL-208	3.02E-02	2.39E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	4/1/2008	456.1	BE-7	2.88E+00	2.88E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2008	606.1	BE-7	9.32E-01	1.33E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	5/1/2008	606.1	K-40	2.08E+00	3.14E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/2/2008	435.6	K-40	2.10E+00	5.00E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	6/2/2008	435.6	BE-7	8.61E-01	2.19E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	PB-212	6.45E-02	2.70E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	PB-214	9.16E-02	3.12E-02

# BNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	TL-208	2.73E-02	1.61E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	BE-7	1.30E+00	2.06E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	BI-214	1.07E-01	3.34E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	RA-226	4.70E-01	2.96E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	7/1/2008	484.3	K-40	3.10E+00	4.35E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2008	474.6	BE-7	7.90E-01	2.28E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2008	474.6	PB-212	3.51E-02	3.17E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	8/1/2008	474.6	K-40	3.76E+00	5.36E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/2/2008	515.8	BE-7	6.84E-01	1.90E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/2/2008	515.8	BI-214	5.22E-02	3.39E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/2/2008	515.8	PB-212	6.33E-02	3.45E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	9/2/2008	515.8	K-40	3.04E+00	4.26E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2008	470.9	K-40	4.03E+00	5.39E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2008	470.9	TL-208	6.01E-02	2.83E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2008	470.9	PB-212	1.06E-01	3.46E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2008	470.9	BE-7	7.37E-01	2.38E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	10/1/2008	470.9	BI-214	1.04E-01	6.34E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2008	503.4	BI-214	4.55E-02	3.44E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2008	503.4	PB-212	4.15E-02	2.58E-02

# ***BNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Broadleaf Vegetation*

*Quantity: GRAMS (wet)*

*Concentration (Activity): pCi/gm wet*

**Media:** WAX MYRTLE

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Isotope</b>	<b>Activity</b>	<b>2 Sigma Error</b>	
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2008	503.4	TL-208	3.96E-02	1.81E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2008	503.4	BE-7	1.06E+00	2.48E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	11/1/2008	503.4	K-40	3.16E+00	4.67E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2008	451.9	K-40	1.89E+00	3.25E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2008	451.9	BE-7	7.82E-01	1.78E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2008	451.9	RA-226	5.71E-01	2.89E-01
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2008	451.9	PB-212	3.74E-02	2.70E-02
804	0.7 MILES S - LEONARD STREET PLANT EXIT ADJ	12/1/2008	451.9	BI-214	3.95E-02	3.04E-02

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Fish and Invertebrates

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/22/2008	505	K-40	3.09E+00	6.93E-01
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	5/22/2008	505	PB-214	5.20E-02	4.17E-02
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/15/2008	703.8	RA-226	3.10E-01	2.36E-01
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/15/2008	703.8	K-40	2.82E+00	5.31E-01
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/15/2008	703.8	BI-214	6.12E-02	3.24E-02
700 5.5 MI SSW - FREE SWIMMERS - ATLANTIC OCEAN AT DI	10/15/2008	703.8	PB-214	4.98E-02	4.09E-02
701 5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	5/22/2008	543.4	K-40	2.00E+00	4.36E-01
701 5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/15/2008	737.9	BI-214	7.24E-02	3.47E-02
701 5.5 MI SSW - BOTTOM FEEDER - ATLANTIC OCEAN AT DI	10/15/2008	737.9	K-40	2.35E+00	4.93E-01
702 5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	5/22/2008	540.5	K-40	2.65E+00	6.86E-01
702 5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/15/2008	686.7	BI-214	5.89E-02	3.92E-02
702 5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/15/2008	686.7	K-40	1.83E+00	4.27E-01
702 5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/15/2008	686.7	PB-214	4.74E-02	4.04E-02
702 5.5 MI SSW - SH/BO* - ATLANTIC OCEAN AT DISCHARGE	10/15/2008	686.7	TH-234	4.96E-01	4.12E-01
703 FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	5/22/2008	442.1	K-40	2.40E+00	8.13E-01
703 FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/20/2008	711.2	K-40	3.00E+00	5.96E-01
703 FREE SWIMMERS - ATLANTIC OCEAN (CONTROL)	10/20/2008	711.2	BI-214	5.86E-02	3.14E-02
704 BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	5/22/2008	415.4	K-40	2.53E+00	6.18E-01
704 BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL)	10/20/2008	595.9	K-40	2.20E+00	5.60E-01
705 SH/BO* - ATLANTIC OCEAN (CONTROL)	5/22/2008	500.1	K-40	2.00E+00	5.53E-01
705 SH/BO* - ATLANTIC OCEAN (CONTROL)	10/20/2008	527.3	PB-214	9.58E-02	5.05E-02
705 SH/BO* - ATLANTIC OCEAN (CONTROL)	10/20/2008	527.3	K-40	2.81E+00	6.91E-01
705 SH/BO* - ATLANTIC OCEAN (CONTROL)	10/20/2008	527.3	BI-214	1.25E-01	5.29E-02



# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Ground Water*

*Quantity: Liters*

*Concentration (Activity): pCi/L*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>
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# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Shoreline Sediment*

*Quantity: GRAMS (dry)*

*Concentration (Activity): pCi/gm dry*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/22/2008	1651.4	PB-214	1.48E-01	4.12E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/22/2008	1651.4	BI-214	1.15E-01	3.57E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/22/2008	1651.4	PB-212	6.79E-02	3.97E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	5/22/2008	1651.4	K-40	5.99E-01	3.42E-01
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/16/2008	1523.9	PB-214	1.28E-01	5.27E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/16/2008	1523.9	BI-214	1.98E-01	6.07E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/16/2008	1523.9	PB-212	5.33E-02	5.07E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/16/2008	1523.9	TL-208	2.70E-02	2.18E-02
500 5.0 MI SSW - DISCHARGE; BEACH NEAR OD PUMPS	10/16/2008	1523.9	K-40	1.47E+00	3.72E-01

# BSEP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Isotope</b>	<b>Activity</b>	<b>2 Sigma Error</b>
400 0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2008	1	TH-234	8.79E+01	6.24E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	1/16/2008	1	K-40	2.60E+02	7.10E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	2/16/2008	1	TH-234	1.22E+02	1.03E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	2/16/2008	1	K-40	2.01E+02	5.80E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	3/17/2008	1	K-40	1.71E+02	4.06E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	4/16/2008	1	K-40	1.44E+02	3.29E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	PB-212	6.52E+00	2.82E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	TH-234	8.40E+01	5.64E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	AC-228	1.72E+01	7.06E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	RA-226	6.52E+01	3.79E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	BI-214	9.21E+00	3.93E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	TL-208	3.41E+00	2.11E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	PB-214	4.25E+00	2.95E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	5/17/2008	1	K-40	9.03E+02	5.15E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	BI-212	1.52E+01	1.17E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	TL-208	3.52E+00	1.58E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	PB-212	9.18E+00	2.84E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	BI-214	7.42E+00	3.90E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	RA-226	9.96E+01	3.50E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	AC-228	1.88E+01	6.64E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	TH-234	1.03E+02	5.62E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	6/16/2008	1	K-40	1.04E+03	7.18E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	K-40	7.66E+02	6.13E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	TH-234	1.38E+02	8.33E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	RA-226	9.77E+01	3.37E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	PB-214	4.44E+00	3.00E+00

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	BI-214	8.89E+00	4.52E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	AC-228	1.31E+01	6.71E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	TL-208	5.54E+00	2.15E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	7/16/2008	1	PB-212	5.60E+00	3.09E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	PB-212	6.79E+00	2.81E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	RA-226	1.40E+02	4.14E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	PB-214	7.40E+00	3.06E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	BI-214	9.14E+00	4.00E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	TL-208	2.80E+00	1.74E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	K-40	7.54E+02	6.07E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	8/16/2008	1	TH-234	1.57E+02	8.11E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	RA-226	1.33E+02	2.09E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	AC-228	1.35E+01	3.89E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	K-40	3.42E+02	2.54E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	PB-214	1.23E+01	2.19E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	PB-212	9.58E+00	1.56E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	BI-214	1.24E+01	2.55E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	TL-208	3.52E+00	9.93E-01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	9/16/2008	1	TH-234	1.56E+02	2.98E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	BI-214	1.59E+01	3.65E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	PB-214	1.43E+01	3.49E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	RA-226	1.59E+02	3.18E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	AC-228	8.54E+00	4.51E+00
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	TH-234	1.62E+02	5.45E+01
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	K-40	5.07E+02	3.94E+02
400 0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	TL-208	4.81E+00	1.49E+00

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	
400	0.6 MI NE - INTAKE CANAL (CONTROL)	10/16/2008	1	PB-212	1.34E+01	2.79E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	PB-212	5.78E+00	2.66E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	RA-226	7.99E+01	3.39E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	TL-208	3.45E+00	1.66E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	AC-228	1.12E+01	5.45E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	TH-234	1.38E+02	5.47E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	PB-214	5.98E+00	2.82E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	BI-214	1.14E+01	4.17E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	11/16/2008	1	K-40	6.79E+02	5.50E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	K-40	3.61E+02	4.33E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	TH-234	1.81E+02	6.42E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	RA-226	1.17E+02	4.08E+01
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	PB-214	1.30E+01	3.69E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	BI-214	1.57E+01	4.67E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	PB-212	1.42E+01	3.14E+00
400	0.6 MI NE - INTAKE CANAL (CONTROL)	12/16/2008	1	TL-208	2.42E+00	2.01E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	1/16/2008	1	K-40	2.83E+02	6.31E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	2/16/2008	1	K-40	2.18E+02	4.12E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	3/17/2008	1	K-40	1.90E+02	5.97E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	4/16/2008	1	K-40	1.80E+02	3.63E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	5/17/2008	1	K-40	1.70E+02	3.72E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	K-40	7.24E+02	5.49E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	TL-208	2.86E+00	1.89E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	PB-212	4.18E+00	2.42E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	BI-214	8.00E+00	3.33E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	RA-226	7.08E+01	2.66E+01

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	6/16/2008	1	TH-234	1.28E+02	5.19E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	AC-228	1.03E+01	7.31E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	TH-234	8.12E+01	5.97E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	RA-226	5.96E+01	3.19E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	BI-214	1.11E+01	4.60E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	PB-212	7.63E+00	2.44E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	TL-208	4.54E+00	2.28E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	7/16/2008	1	K-40	7.81E+02	6.01E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	RA-226	6.75E+01	3.47E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	BI-214	1.11E+01	4.35E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	TH-234	1.39E+02	8.68E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	AC-228	1.85E+01	7.56E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	TL-208	4.23E+00	1.88E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	PB-212	6.05E+00	2.85E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	8/16/2008	1	K-40	1.00E+03	7.52E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	PB-212	1.01E+01	2.41E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	BI-214	1.36E+01	3.33E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	PB-214	9.11E+00	2.98E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	RA-226	1.29E+02	3.28E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	TH-234	1.44E+02	5.08E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	K-40	3.57E+02	3.56E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	9/16/2008	1	TL-208	4.61E+00	1.73E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	PB-212	1.11E+01	2.42E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	TH-234	1.45E+02	5.05E+01
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	AC-228	1.15E+01	5.95E+00
401	4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	RA-226	1.66E+02	3.69E+01

# ***BSEP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	BI-214	1.59E+01	3.15E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	TL-208	4.49E+00	1.42E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	K-40	4.35E+02	3.87E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	10/16/2008	1	PB-214	1.51E+01	3.22E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	K-40	9.13E+02	6.82E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	TL-208	3.44E+00	1.99E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	PB-212	5.13E+00	2.50E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	BI-214	9.73E+00	3.75E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	RA-226	5.06E+01	3.88E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	11/16/2008	1	TH-234	8.19E+01	6.57E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	1	BI-214	1.15E+01	5.25E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	1	RA-226	1.20E+02	6.10E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	1	PB-212	7.20E+00	3.63E+00
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	1	K-40	9.79E+02	8.08E+01
401 4.9 MI SSW - DISCHARGE CANAL @ OD PUMPS	12/16/2008	1	TL-208	4.87E+00	2.78E+00