CP&L

SERIAL: BSEP 96-0180

APR 29 1996

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

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
1995 RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Gentlemen:

Carolina Power & Light Company submits the enclosed Radiological Environmental Operating Report for 1995, for the Brunswick Steam Electric Plant (BSEP). This report is submitted in accordance with the BSEP Technical Specifications section 6.9.1.6 and 6.9.1.7.

Enclosed is the 1995 Radiological Environmental Operating Report, listed as Volume I. Volumes II and III are the Sample Analysis Data for January 1, 1995 through June 30, 1995, and July 1, 1995 through December 31, 1995, respectively.

If you have any questions concerning this report, please contact Ms. J. F. McGowan at (910) 457-2136.

Sincerely,

William Levis
Director - Site Operations

JFM

Enclosure:

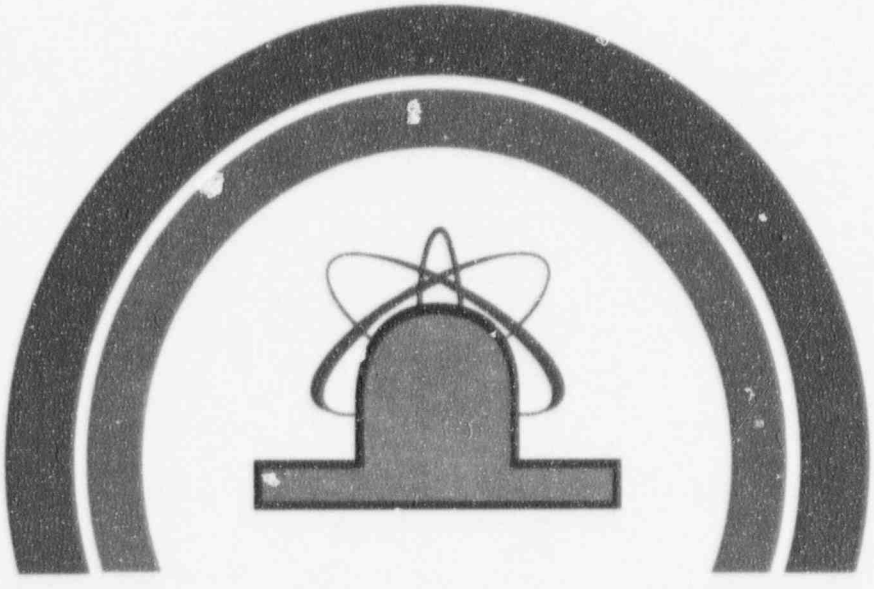
1. Radiological Environmental Operating Report, Volume I
2. Radiological Environmental Operating Report, Volume II
3. Radiological Environmental Operating Report, Volume III

IE25 1/1

cc: Mr. S. D. Ebneter, Regional Administrator, Region II
Mr. C. A. Patterson, Brunswick NRC Senior Resident Inspector

Radiological Environmental Operating Report

1995
VOLUME I



Brunswick Nuclear Plant

Carolina Power & Light

SHEARON HARRIS ENERGY & ENVIRONMENTAL CENTER

Carolina Power & Light Company

New Hill, North Carolina

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

FOR

BRUNSWICK STEAM ELECTRIC PLANT

JANUARY 1 THROUGH DECEMBER 31, 1995

Prepared by:

Katherine C Minard

Reviewed by:

Sharon P. Layden

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1.0 SUMMARY

This report presents the results of the Radiological Environmental Monitoring Program conducted during 1995 for the Brunswick Nuclear Plant (BNP). The program was conducted in accordance with Technical Specification 4.12.1, the Off-site Dose Calculation Manual, and applicable procedures.

The 1995 Annual Radiological Environmental Operating Report (REOR) has been prepared in accordance with Technical Specification 6.9.1.7 and is being submitted in accordance with Technical Specification 6.9.1.6. The report applies to both BNP Units 1 and 2 (License Nos. DPR-071 and DPR-062, respectively).

Nearly 1,000 samples from six environmental media types were analyzed during the year. No detectable radioactivity (or radioactivity which did not differ significantly from the corresponding control) was observed in any of the 818 measurements taken at indicator locations. All samples analyzed met the LLD requirements as established by Technical Specification 6.9.1.7.h and Table 4.12.1-1.

A statistical summary of all the data gathered in 1995 has been compiled in Table 1-1.

The radiological environmental data indicates that BNP operations in 1995 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 BNP.

Comparison of the current data with preoperational (1973, 1974) information (Tables 3-1, 3-2) indicate that air particulate filter gross beta activity and ambient gamma radiation levels were lower in 1995.

TABLE 1-1

BRUNSWICK NUCLEAR PLANT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Brunswick Steam Electric Plant
Brunswick County, North Carolina

Docket Numbers - 50-324 and 325
Calendar Year 1995

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD)[1]	All Indicator Locations[2] Mean Range	Location w/Highest Annual Mean: Name, Distance, and Direction	Location w/Highest Annual Mean: Mean Range[2]	Control Locations Mean Range[2]
Air Cartridge (pCi/m³)	I-131[3] 307	3.0E-2	All less than LLD		All less than LLD	All less than LLD
Air Particulate (pCi/m³)	Gross Beta 307[3]	3.0E-3	1.81E-2 (255/256) 7.05E-3 - 3.67E-2	PMAC 0.6 mile NE	1.88E-2 (52/52) 7.72E-3 - 3.67E-2	1.92E-2 (51/51) 7.58E-3 - 3.11E-2
	Gamma[4] 24	See Table 6-1	All less than LLD		All less than LLD	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma[4] 124	See Table 6-1	All less than LLD		All less than LLD	All less than LLD
Fish and Invertebrates (pCi/g, wet)	Gamma[4] 12	See Table 6-1	All less than LLD		All less than LLD	All less than LLD
Sediments--Shoreline (pCi/g, dry)	Gamma[4] 2	See Table 6-1	All less than LLD		All less than LLD	No control
Surface Water (pCi/l)	Gamma[4] 24	See Table 6-1	All less than LLD		All less than LLD	All less than LLD
	Tritium 24	1.0E+3	All less than LLD		All less than LLD	All less than LLD
TLD (mR per quarter)[5]	TLD Readout 175[3]		1.01E+1 (171/171) 7.50E+0 - 1.96E+1	Intake Canal 0.5 mile NE	1.30E+1 (4/4) 1.05E+1 - 1.61E+1	1.17E+1 (4/4) 9.60E+0 - 1.40E+1

FOOTNOTES TO TABLE 1-1

1. Lower limit of detection (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 6-1.

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 Section 4.0.

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-212, Bi-214, Pb-214, Ra-226, Ac-228, and Th-234.

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 Nuclear Regulatory Commission (NRC).

2.0 GENERAL INFORMATION

The Brunswick Nuclear Plant (BNP) consists of two boiling water reactors with a design rating of 821 MW net each. Commercial production was initiated by Unit 2 on November 3, 1975, and by Unit 1 on March 18, 1977.

The BNP is located approximately 2.5 miles north of Southport, North Carolina. This location is near the mouth of the Cape Fear River, which is the source of condenser cooling water. The cooling water is then discharged into the Atlantic Ocean.

The plant site lies at sea level to 30 feet (MSL) surrounded by extensive marshes. Recreational beaches are located within 20 miles of the plant. Fishing and boating are popular activities in the area. Within 50 miles of the plant, less than half of the land is used for agriculture. The agricultural activities include small truck farms, cattle, and poultry farms as well as farms producing corn, soybeans, and tobacco. Most of the industrial activity is in the Wilmington area approximately 16 miles north of BNP. Sunny Point Military Ocean Terminal is located approximately 4.5 miles north of BNP. Archer-Daniels-Midland Chemical Company, located 1.5 miles southeast of BNP, manufactures citric acid. This plant is supplied with steam from two 55-megawatt coal-fired boilers operated by Cogentrix, Inc., which is located 1.0 mile south of BNP. A shipping channel in the Cape Fear River intercepts the Atlantic Intracoastal Waterway near Southport.

The sampling program developed during preoperational surveillance provided the basis for the environmental monitoring program required by the BNP Technical Specifications. Details of this sampling program, including sampling type, distance, and direction from the plant site, are listed in Table 2-1. Maps, including the sampling locations with respect to the plant, are shown in Figures 2-1 through 2-5. Types of samples collected include air cartridge (iodine), air particulate, fish and invertebrates, broadleaf vegetation, shoreline sediment, surface water, and direct radiation monitoring.

The following is a tabulation of the specific methods used in monitoring the gaseous effluent and liquid effluent pathways of exposure to man:

Pathway of Exposure to Man	Media Sampled
External Dose	TLD
	Shoreline Sediment
Ingestion	Broadleaf Vegetation
	Fish and Invertebrates Samples
	Surface Water
Inhalation	Air Samples

TABLE 2-1
BRUNSWICK NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
SUMMARY

Sample Type	Sampling Point and Description	Sampling Frequency	Typical Sample Size	Sample Analysis
Air Cartridge (AC)	200--1.0 mile SW Visitors Center 201--0.6 mile NE PMAC 202--1.0 mile S substation--construction road 203--2.3 miles SSW Southport substation 204--23 miles NNE Sutton Plant* 205--0.6 mile SSE Spoil Pond	Weekly	10,000 ft^3 (300 m^3)	Iodine
Air Particulate (AP)	200--1.0 mile SW Visitors Center 201--0.6 mile NE PMAC 202--1.0 mile S substation--construction road 203--2.3 miles SSW Southport substation 204--23 miles NNE Sutton Plant* 205--0.6 mile SSE Spoil Pond	Weekly	10,000 ft^3 (300 m^3)	Gross Beta--Weekly Composite Gamma--Quarterly
Fish (FI)	700--5.5 miles SSW Atlantic Ocean @ discharge (free-swimmers) 701--5.5 miles SSW Atlantic Ocean @ discharge (bottom-feeders) 702--5.5 miles SSW Atlantic Ocean @ discharge (invertebrates) 703--Atlantic Ocean; location not specified* (free-swimmers) 704--Atlantic Ocean; location not specified* (bottom-feeders) 705--Atlantic Ocean; location not specified* (invertebrates)	Semiannually when in season	500 grams (wet)	Gamma
Broadleaf Vegetation (BL)	800--0.7 mile NE intake canal 801--0.6 mile SW discharge canal 802--10 miles; location not specified* 803--0.6 mile SSE Spoil Pond	Monthly when available	500 grams (wet)	I-131, Gamma
Shoreline Sediment (SS)	500--4.9 miles SSW; beach near OD pumps	Semiannually	500 grams	Gamma
Surface Water (SW)	400--0.7 mile NE intake canal* 401--4.9 miles SSW discharge canal at OD pumps	Monthly composite	4 liters	Gamma Tritium

*Control Station

TABLE 2-1 (continued)
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
BRUNSWICK NUCLEAR PLANT

Sample Type		Sampling Point and Description	Sampling Frequency	Typical Sample Size	Sample Analysis
Thermoluminescent Dosimeters (TLD)	1	1.1 miles E Moore St. extension	Quarterly	Not Applicable	TLD Readout
	2	1.0 mile ESE Moore St. extension			
	3	0.9 mile SE Moore St. extension			
	4	1.1 miles SSE Moore St. extension			
	5	1.1 miles S Leonard St.			
	6	1.0 mile SSW pine tree on right-of-way BEMCO power line			
	7	1.0 mile SW Hwy 87 at right-of-way			
	8	1.2 miles W Hwy 87			
	9	1.0 mile WNW Bethel Church Rd.			
	10	0.9 mile NW Bethel Church Rd.			
	11	0.9 mile NNW Bethel Church Rd.			
	12	1.0 mile N Bethel Church Rd.			
	13	1.2 miles NNE Bethel Church Rd.			
	14	0.5 mile NE intake canal			
	15	0.9 mile ENE intake canal			
	16	1.0 mile WSW discharge canal			
	17	1.5 miles ESE Pfizer property			
	18	1.7 miles SE Pfizer property			
	20	2.0 miles S by the church on Stewart St.			
	21	2.9 miles SSW West St. at Sea Captain			
	22	5.3 miles SW Caswell Beach Rd.			
	23	4.6 miles WSW near airport			
	24	3.0 miles W Hwy 211			
	25	8.7 miles WNW Antioch Baptist Church			
	26	5.9 miles NW W. Boiling Springs Rd.			
	27	5.0 miles NNW Hwy 133			
	28	4.2 miles NW at South Brunswick HS			
	29	2.6 miles SSW Southport Elementary School			
	30	2.0 miles NE Sunny Point MOT			
	31	2.6 miles ENE Sunny Point MOT			
	32	5.7 miles ENE at Ft. Fisher AFB			
	33	4.0 miles E at Ferry Slip N.H. Co.			
	34	5.5 miles ENE at Ft. Fisher Museum			
	35	7.5 miles SSE Bald Head Island			
	36	9.3 miles NE at Carolina Beach			
	37	5.5 miles NW at Boiling Springs Lakes			
	38	11.0 miles W at Sunset Harbor			
	39	5.3 miles SW at Yaupon Beach City Hall			
	40	6.9 miles WSW at Long Beach City Hall			
	75	4.5 miles S at Ft. Caswell Bapt. Assy.			
	76	4.8 miles SSW at Caswell Beach			
	77	5.3 miles S at Bald Head Island			
	78	10.0 miles NNE Hwy. 133 at SR 1521			
	79	9.5 miles N SR 1539 at SR 1521			
	81	10.0 miles WNW Midway Road at SR 1508*			

*Control Station

Refer to Figures 2-1, 2-2, 2-3, 2-4, and 2-5

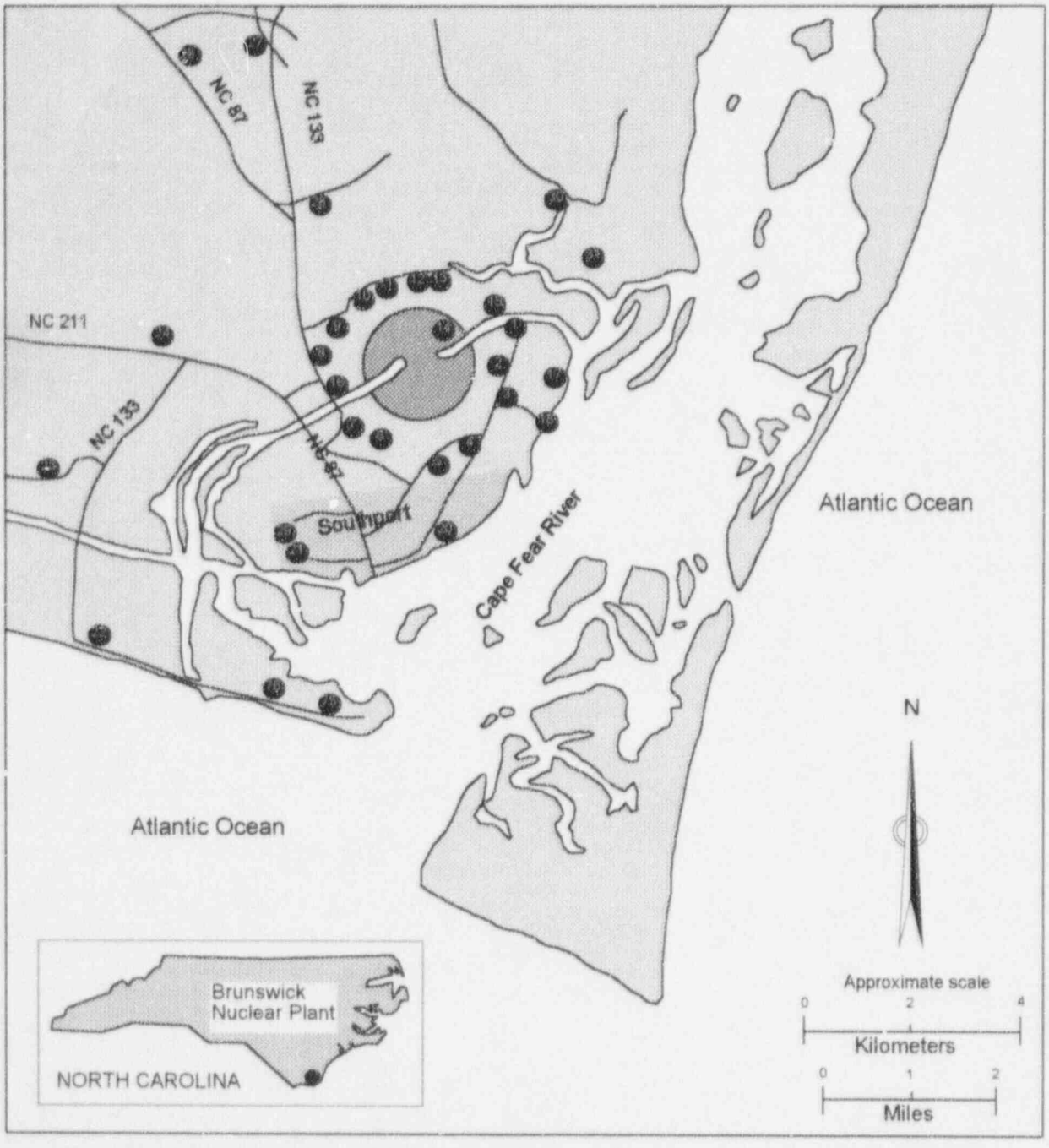


FIGURE 2-1 LOCATIONS OF RADIOLOGICAL ENVIRONMENTAL DIRECT RADIATION MONITORS (TLD'S)

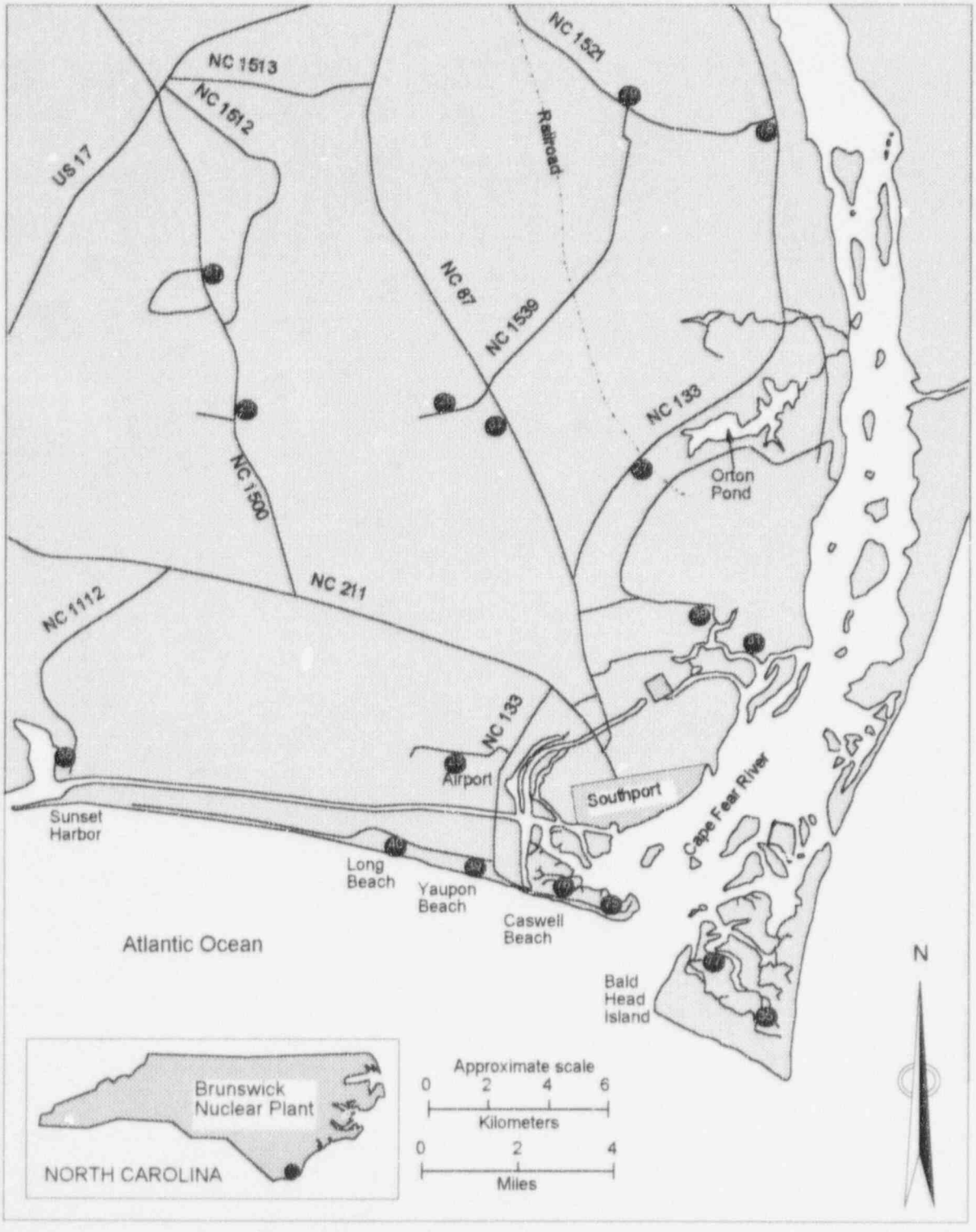


FIGURE 2-2 LOCATIONS OF RADIOLOGICAL ENVIRONMENTAL DIRECT RADIATION MONITORS (TLD'S)

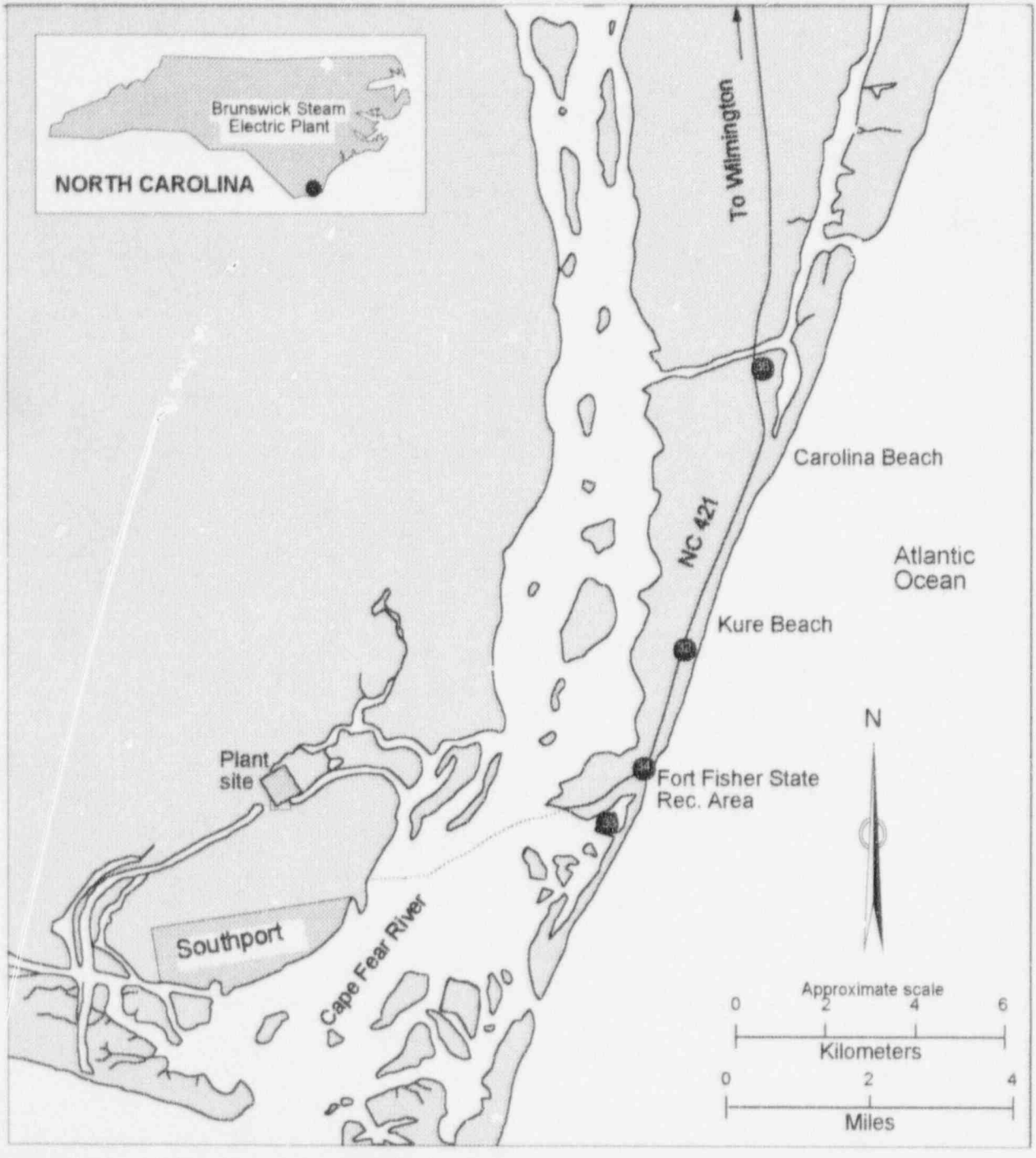


FIGURE 2-3 LOCATIONS OF RADIOLOGICAL ENVIRONMENTAL DIRECT RADIATION MONITORS (TLD'S)

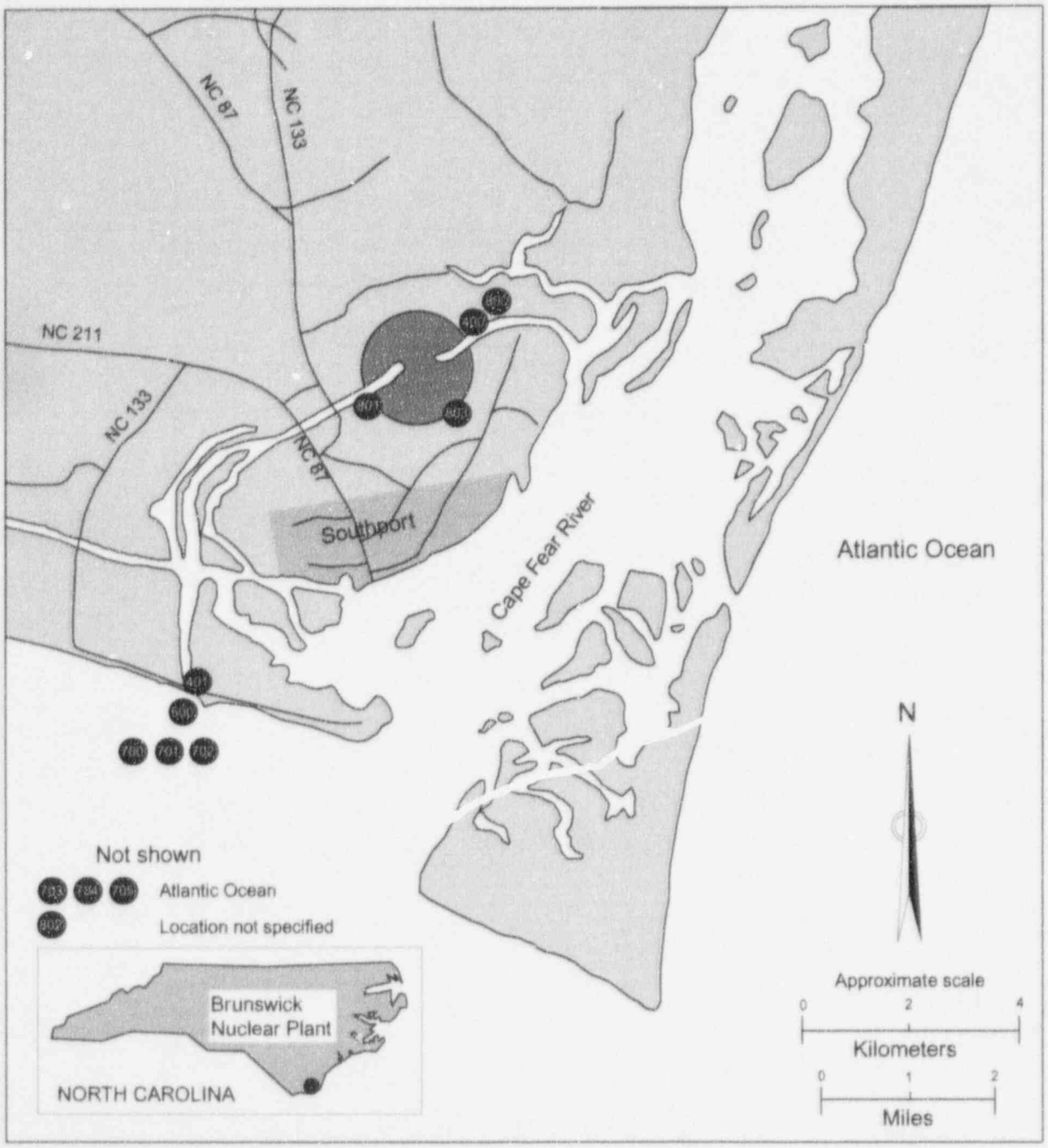


FIGURE 2-4 LOCATIONS OF RADIOLOGICAL ENVIRONMENTAL WATERBORNE AND INGESTION PATHWAY STATIONS (SW, SS, FI, FC)

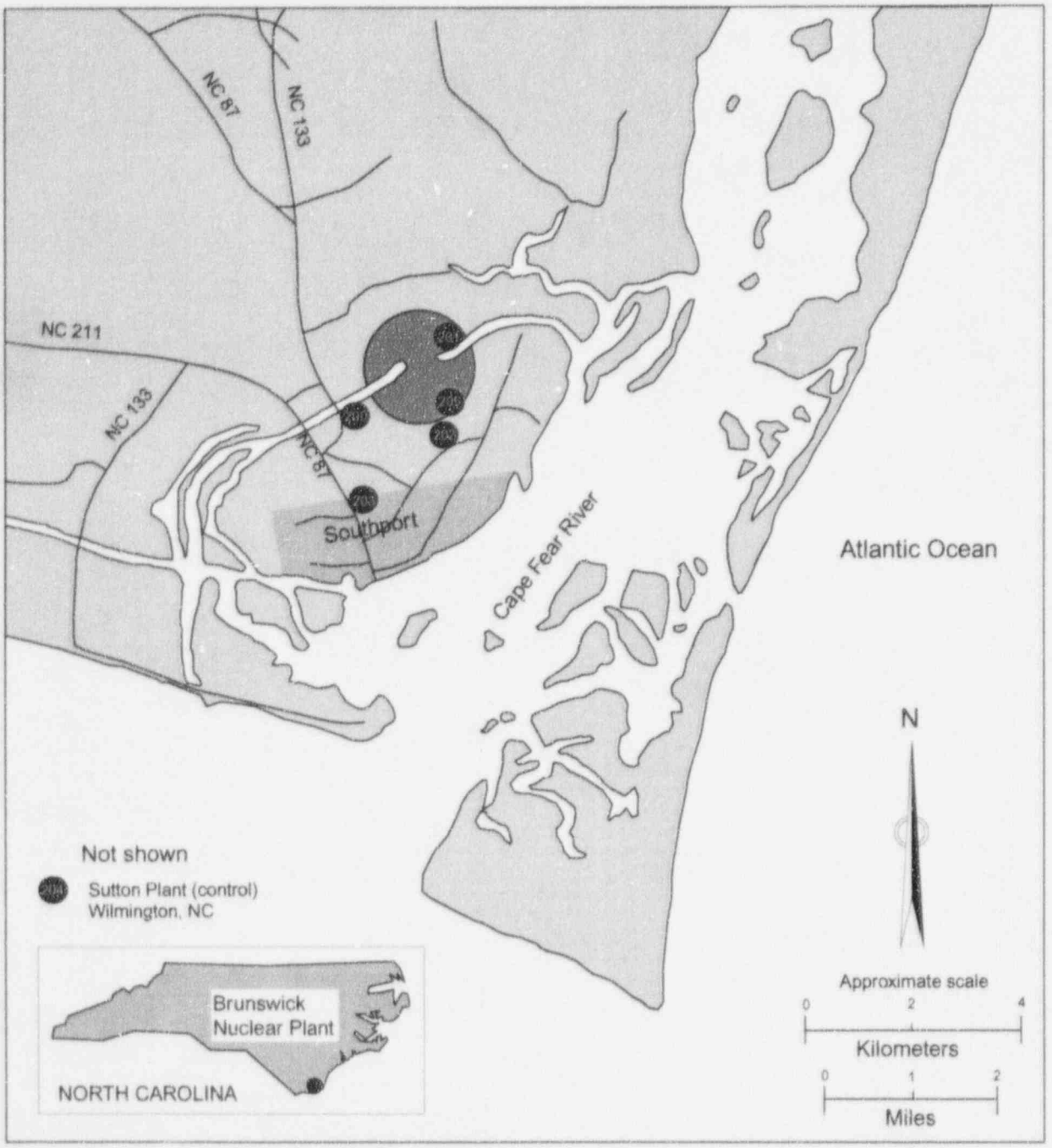


FIGURE 2-5 LOCATIONS OF RADIOLOGICAL ENVIRONMENTAL AIR MONITORING STATIONS (AC, AP)

3.0 INTERPRETATIONS AND CONCLUSIONS

3.1 Air Samples

The average gross beta concentration measured in 256 air particulate samples collected at indicator stations during 1995 was 1.8 E-2 picocuries per cubic meter (pCi/m^3). The preoperational (1973-1974) average concentration was 8.2 E-2 pCi/m^3, while the average activity in the recent past (1991-1994) was 1.7 E-2 pCi/m^3 (Table 3-1). The airborne concentrations of gross beta activity in 1995 are indicative of natural background and do not indicate any abnormal activities originating from the nuclear operations at the Brunswick Nuclear Plant (BNP). Figures 3-1 through 3-5 depict the monthly variations of these values.

Gamma analyses of the composited 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 256 indicator location air cartridges for the collection of radioiodines indicated that concentrations of those radionuclides, and particularly I-131, were less than the LLD.

3.2 Milk Samples

No milk sampling locations are currently identified in the BNP environs, and therefore no sampling of this media was available.

3.3 Vegetation

Food crops were not grown in the vicinity of the plant in 1995 and this media was represented by indigenous vegetation samples consisting primarily of wild cherry, wax myrtle, and sweetgum leaves along with fescue grass. Ninety-three samples were collected from indicator locations and 31 from the control location. No detectable activities relating to plant effluents were detected in this sampling media.

3.4 Fish and Invertebrates

Fish and invertebrate samples are collected semiannually from two locations: (1) near the Atlantic Ocean discharge pipe at Caswell Beach and (2) a control location in the Atlantic Ocean not influenced by plant operations. In all 12 samples, the radionuclide content was determined to be less than the respective LLDs for the gamma-emitting radionuclides.

3.5 Sediments-Shoreline

Two shoreline sediments are drawn from the beach area near the pumping station location at Caswell Beach. No detectable activities relating to plant effluents were detected in this sampling media.

3.6 Surface Water

Surface water is sampled monthly from the intake and discharge canal. These samples are analyzed for gamma-emitting radionuclides and for tritium. Neither of these analyses indicated any detectable concentrations of radionuclides in the 12 indicator samples. Figure 3-6 depicts the observed tritium concentrations for 1995.

3.7 External Radiation Dose (TLD)

The environmental data on external radiation exposure for 1995 was essentially unchanged from 1989-1994 with an average exposure for all indicator locations of 0.78 mR per week or 10.1 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 3-2 provides a comparison of recent data with the preoperational and historical data.

The highest average exposure occurred at the plant boundary 0.5 mile NE. That dose was 13.0 mR per quarter. Figure 3-7 depicts average inner and outer ring TLD data for each quarter of 1995. 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 arises from plant operations.

TABLE 3-1

GROSS BETA AIR PARTICULATE ACTIVITY AVERAGES

	Gross Beta Activity (pCi/m^3)						
	Preoperational		Recent Operational				
Location	1973	1974	1991	1992	1993	1994	1995
AP-200	2.2 E-2	1.4 E-1	1.5 E-2	1.7 E-2	1.8 E-2	1.8 E-2	1.8 E-2
AP-201	3.1 E-2	1.4 E-1	1.6 E-2	1.6 E-2	1.7 E-2	1.8 E-2	1.9 E-2
AP-202	3.4 E-2	1.4 E-1	1.5 E-2	1.4 E-2	1.7 E-2	1.8 E-2	1.8 E-2
AP-203	2.4 E-2	1.3 E-1	1.5 E-2	1.3 E-2	1.7 E-2	1.9 E-2	1.9 E-2
AP-204*	2.5 E-2	1.3 E-1	1.5 E-2	1.6 E-2	1.7 E-2	1.9 E-2	1.9 E-2
AP-205	_____	_____	1.6 E-2	1.5 E-2	1.7 E-2	1.9 E-2	1.8 E-2

*Control location

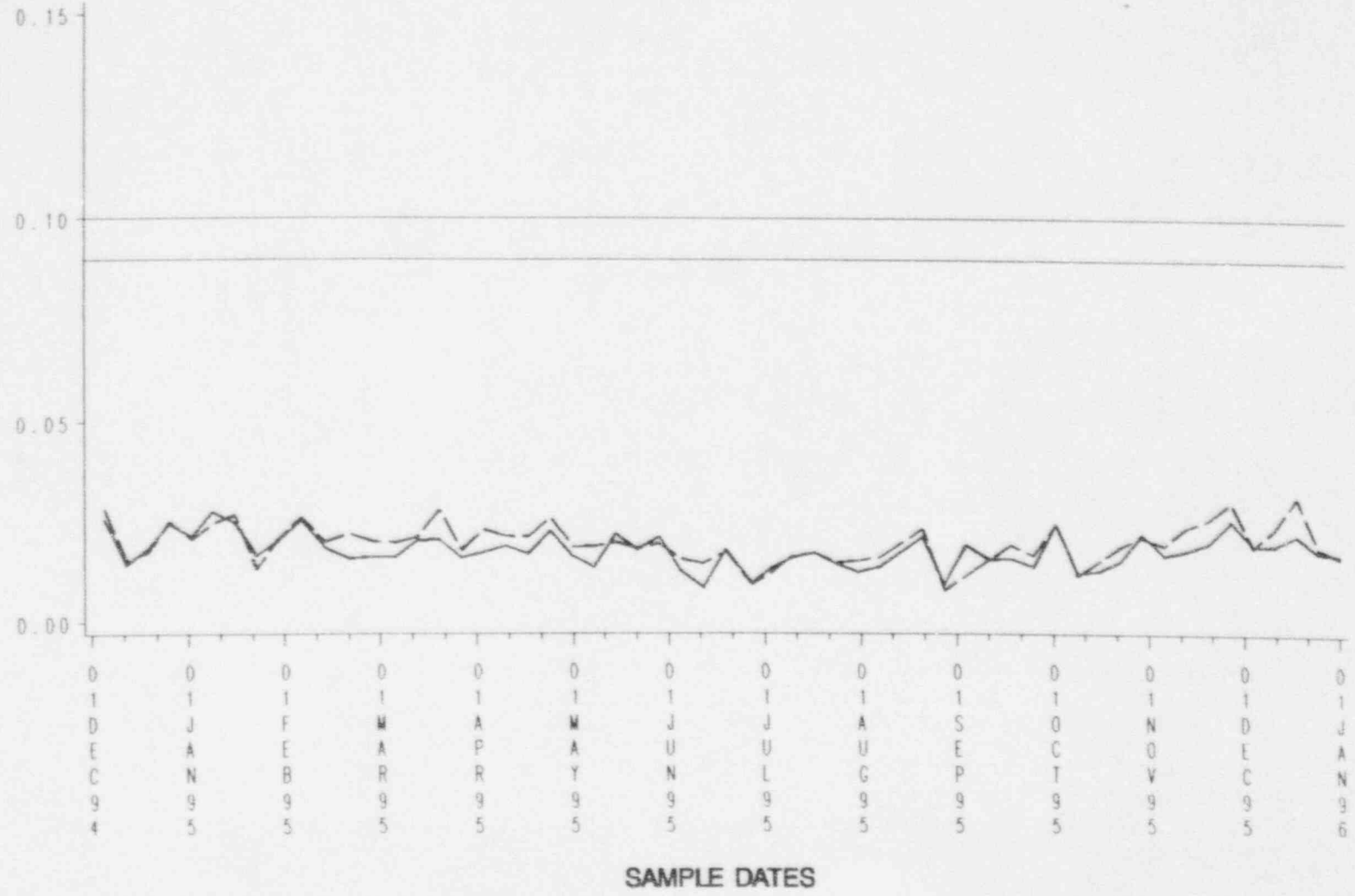
TABLE 3-2
HISTORICAL TLD RESULTS (1972-1995)

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)*

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

CP&L ENVIRONMENTAL SURVEILLANCE

GROSS BETA ACTIVITY FOR
AIR PARTICULATE SAMPLES
PLANT=BSEP SAMPLE POINT=0200



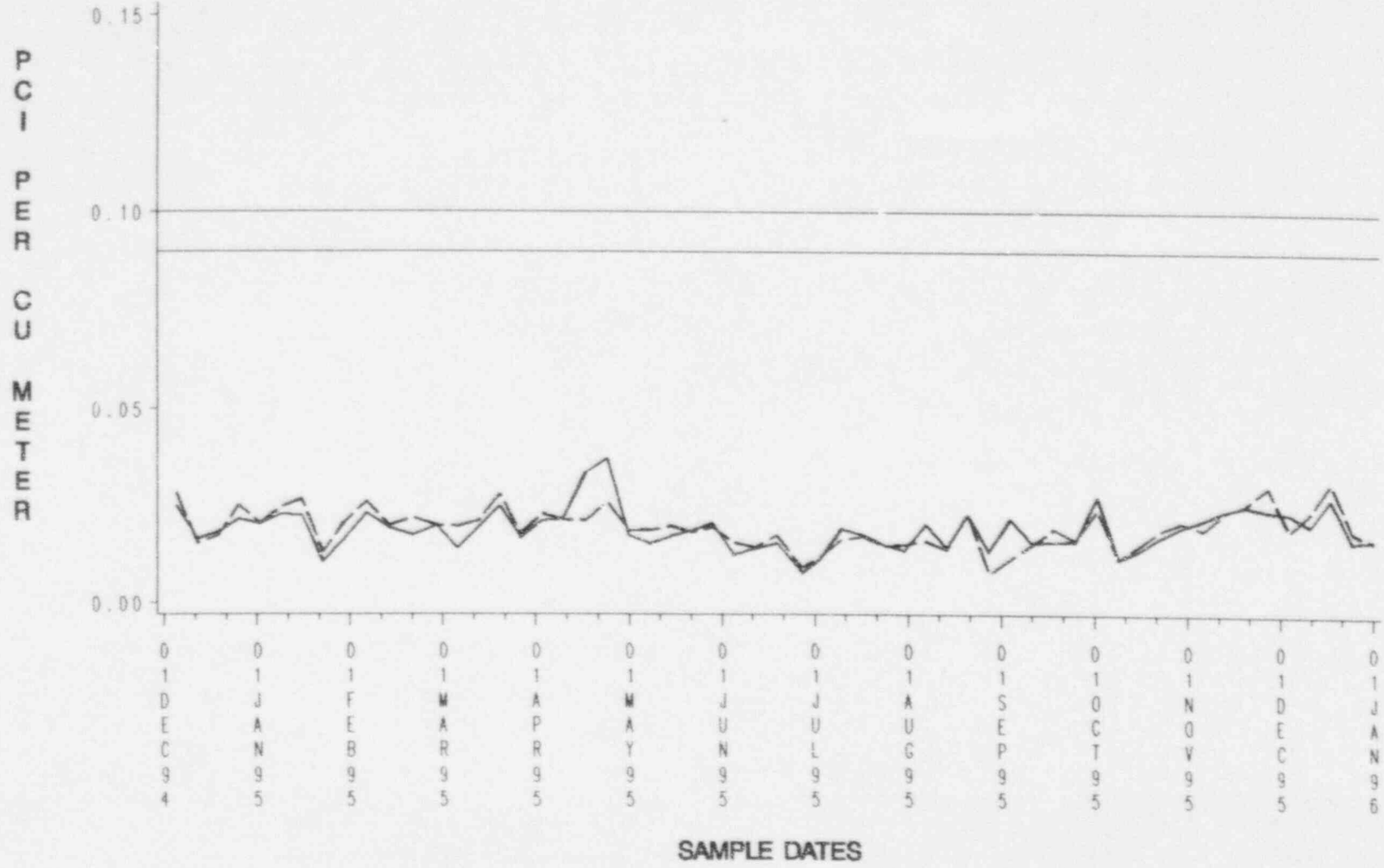
SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

PRE-OP AVERAGE=0.09
ISOTOPIC ANALYSIS REQUIRED ABOVE 0.10

FIGURE 3-1

CP&L ENVIRONMENTAL SURVEILLANCE

GROSS BETA ACTIVITY FOR
AIR PARTICULATE SAMPLES
PLANT=BSEP SAMPLE POINT=0201



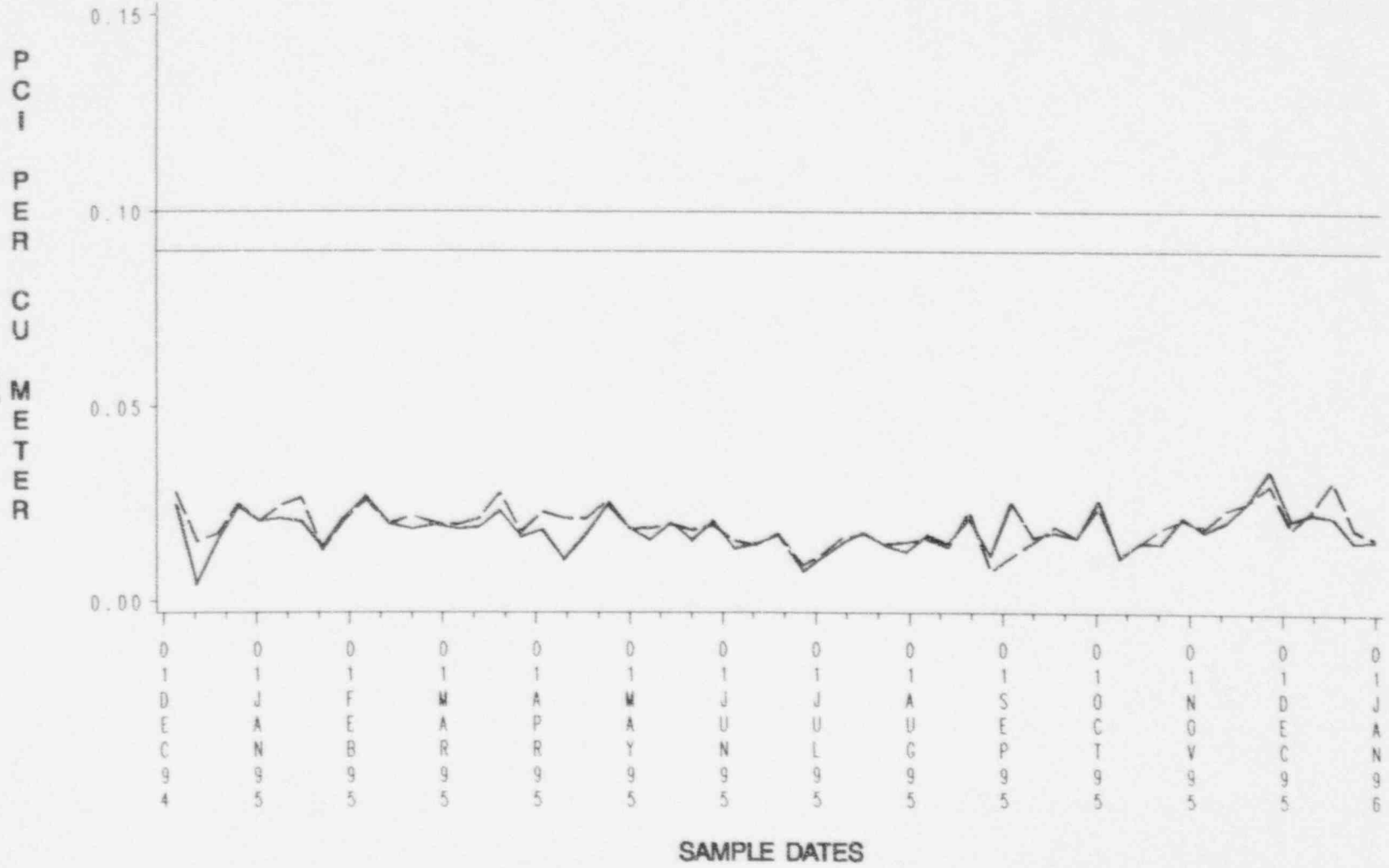
SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

PRE-OP AVERAGE=0.09
ISOTOPIC ANALYSIS REQUIRED ABOVE 0.10

FIGURE 3-2

CP&L ENVIRONMENTAL SURVEILLANCE

GROSS BETA ACTIVITY FOR
AIR PARTICULATE SAMPLES
PLANT=BSEP SAMPLE POINT=0202



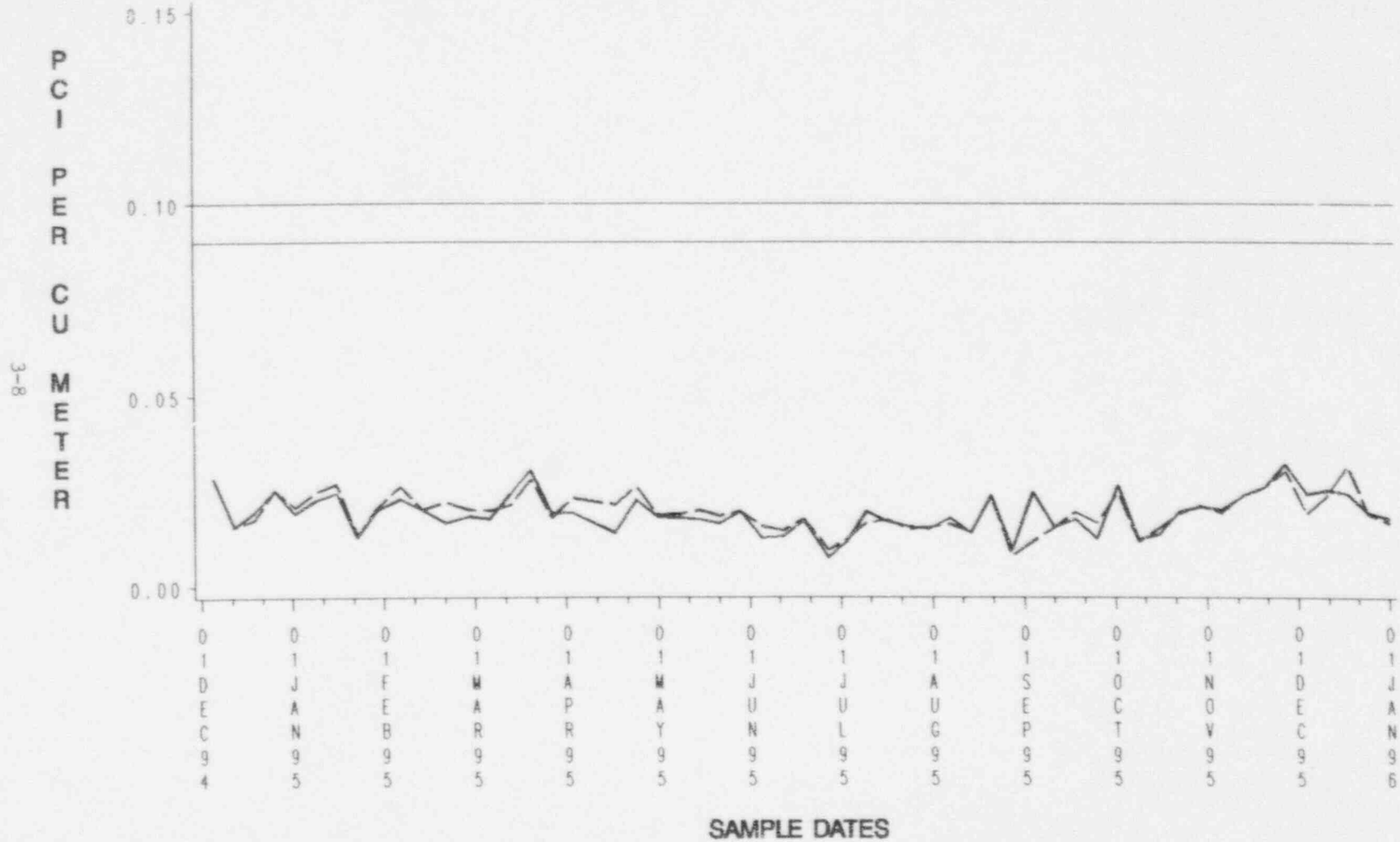
SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

PRE-OP AVERAGE=0.09
ISOTOPIC ANALYSIS REQUIRED ABOVE 0.10

FIGURE 3-3

CP&L ENVIRONMENTAL SURVEILLANCE

GROSS BETA ACTIVITY FOR
AIR PARTICULATE SAMPLES
PLANT=BSEP SAMPLE POINT=0203



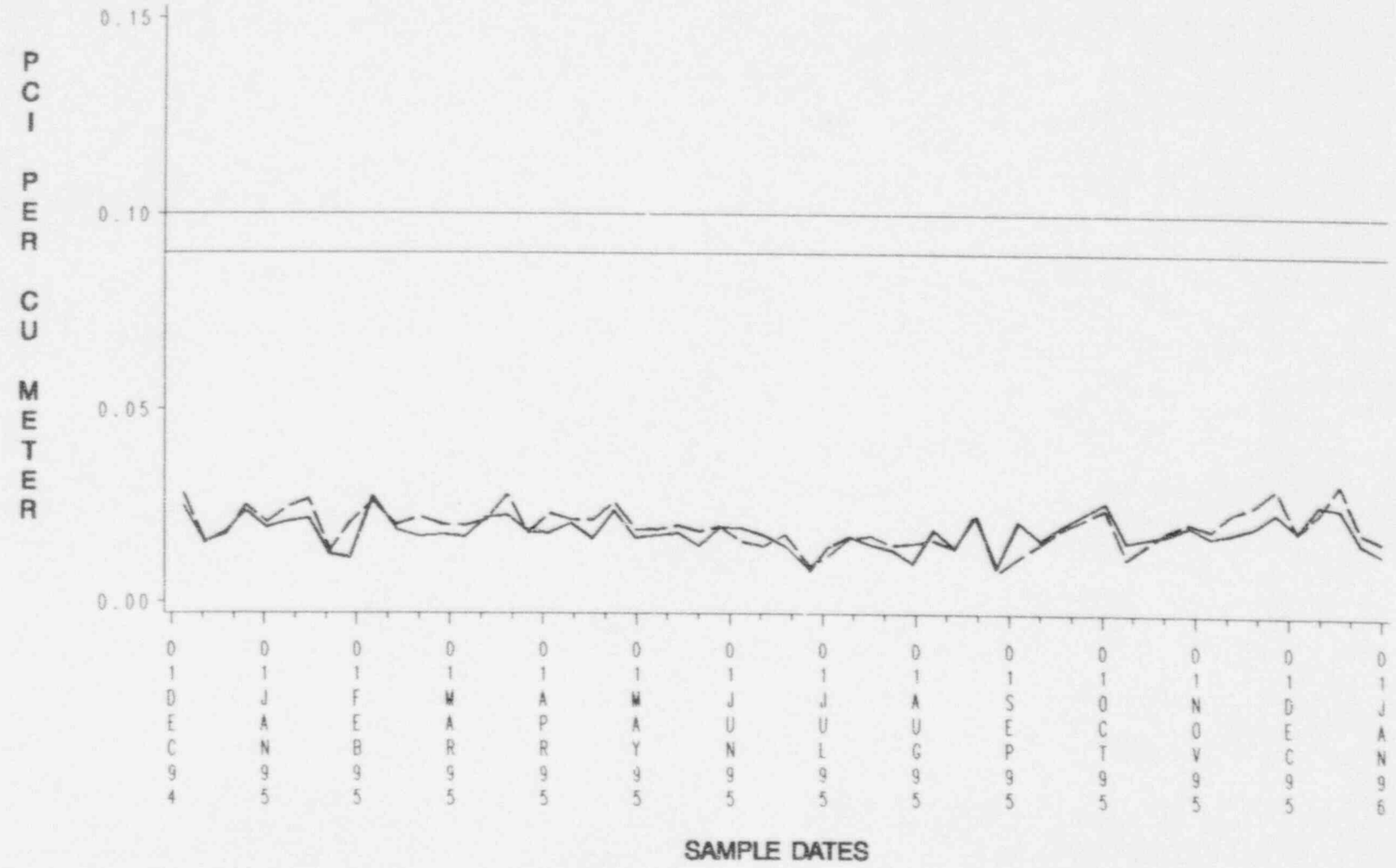
SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

PRE-OP AVERAGE=0.09
ISOTOPIC ANALYSIS REQUIRED ABOVE 0.10

FIGURE 3-4

CP&L ENVIRONMENTAL SURVEILLANCE

GROSS BETA ACTIVITY FOR
AIR PARTICULATE SAMPLES
PLANT=BSEP SAMPLE POINT=0205



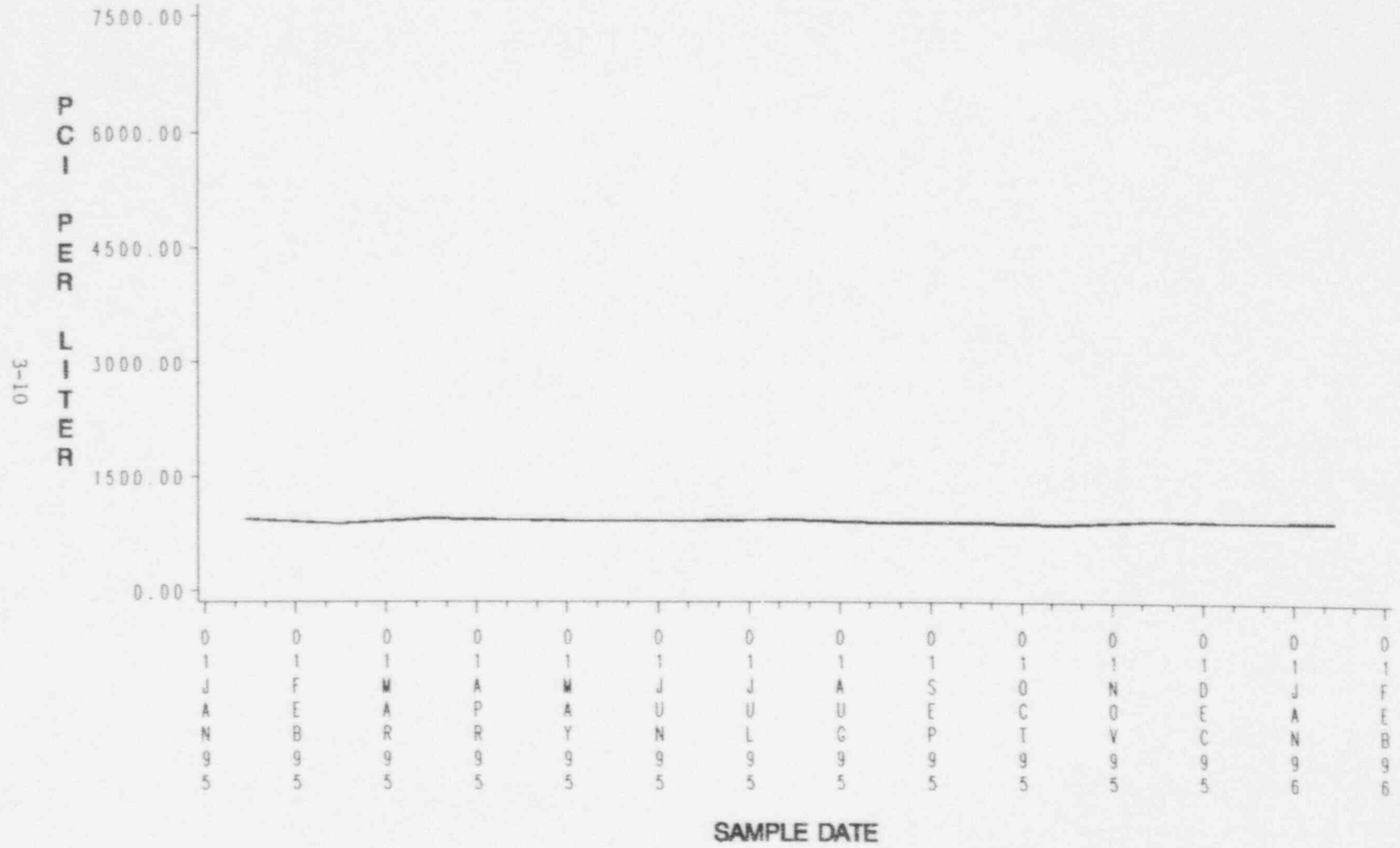
SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

PRE-OP AVERAGE=0.09
ISOTOPIC ANALYSIS REQUIRED ABOVE 0.10

FIGURE 3-5

CP&L ENVIRONMENTAL SURVEILLANCE

TRITIUM ACTIVITY FOR
SURFACE WATER SAMPLES
PLANT=BSEP SAMPLE POINT=0401

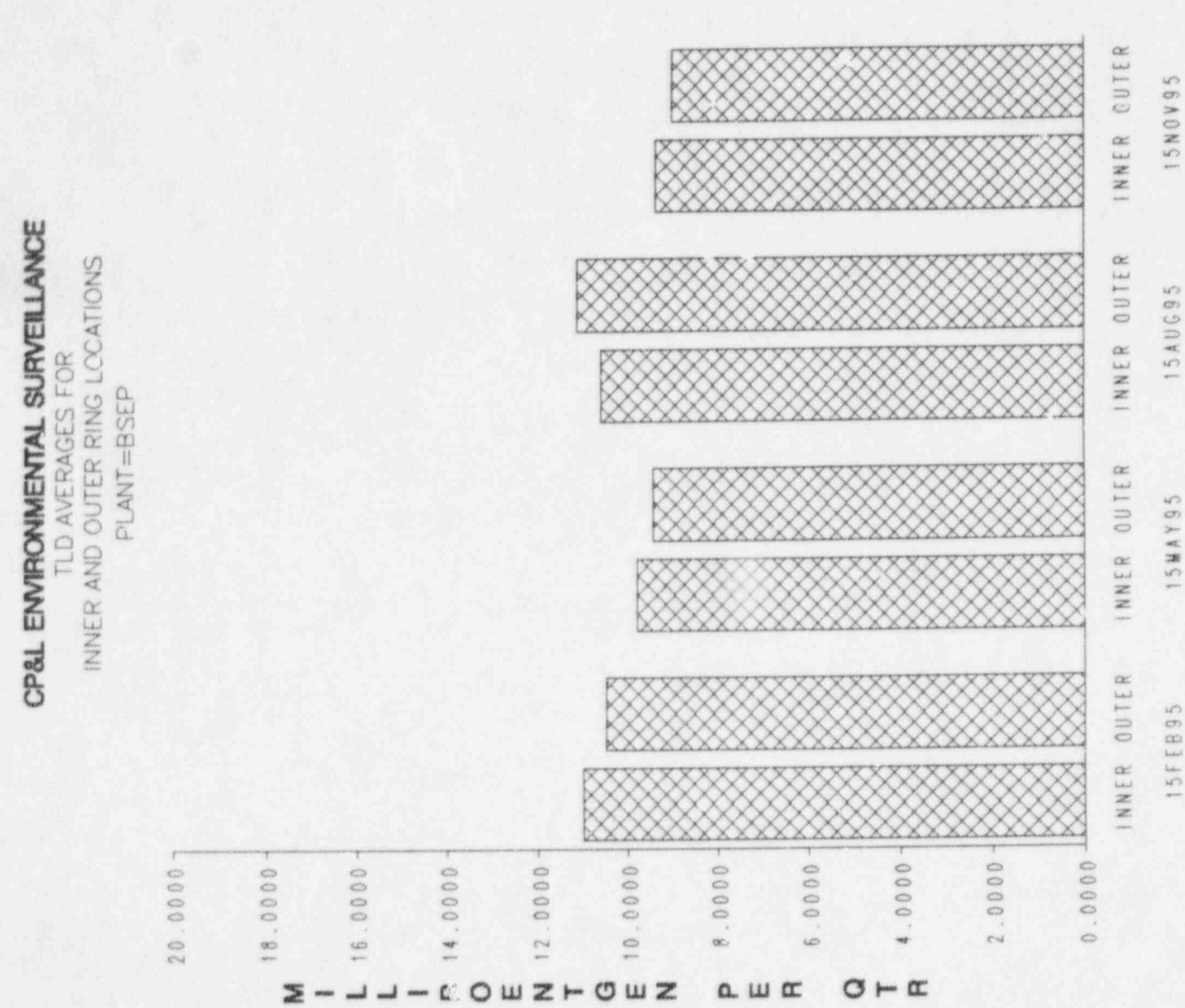


SOLID LINE FOR SAMPLE STATION
BROKEN LINE FOR CONTROL STATION

SAMPLE DATA MAY OVERLAY CONTROL DATA

FIGURE 3-6

FIGURE 3-7


CP&L ENVIRONMENTAL SURVEILLANCE
TLD AVERAGES FOR
INNER AND OUTER RING LOCATIONS
PLANT=BSEP
MILLIROENTGEN PER QTR
20.0000
18.0000
16.0000
14.0000
12.0000
10.0000
8.0000
6.0000
4.0000
2.0000
0.0000
INNER OUTER
15FEB95
INNER OUTER
15MAY95
INNER OUTER
15AUG95
INNER OUTER
15NOV95
RING
DATE

4.0 MISSED SAMPLES AND ANALYSES

4.1 Air Samples

AC/AP 203, April 10, pump failure.
AC/AP 200, August 14, blown fuse.
AC/AP 204, September 4, pump failure.
AC/AP 205, September 25, blown fuse.
AC/AP 205, October 16, blown fuse.

4.2 TLD

First Quarter - TLDs 12, 29, and 30 were missing in the field due to vandalism.
Second Quarter - TLDs 3 and 29 were missing in the field due to vandalism.

5.0 ANNUAL LAND-USE CENSUS

5.1 Introduction

A comprehensive survey of the use of the land within a 5-mile radius of the plant is conducted during the growing season each year. In 1995 it was completed in July. The purpose is to identify changes in the use of unrestricted areas which could require modification of the Radiological Environmental Monitoring Program (REMP) for evaluating the radiation exposure of members of the public from routine plant operations. The nearest resident, garden of greater than 50 square meters (500 square feet) producing broadleaf vegetables and milk animal, is identified in each of the 16 meteorological sectors.

The census information is gathered using aerial photographs and by performing a visual inspection from roads within a 5-mile radius excluding those within the Sunny Point Military Ocean Terminal. Additional information was obtained from residents, the county extension agents, and farm supply businesses.

5.2 1995 Land-Use Census Results

The 1995 and 1994 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 5-1.

There was no change in the location of the nearest resident in each sector. No significant changes in the status of the gardens occurred, except there is no longer a garden in the NNE sector. Neither milk nor meat animals are located within 5 miles of the plant.

TABLE 5-1

LAND-USE CENSUS COMPARISONS (1994-1995)
NEAREST PATHWAY (MILES)

SECTOR	RESIDENT		GARDEN		MILK/MEAT ANIMALS	
	1994	1995	1994	1995	1994	1995
N	0.9	0.9	None	None	None	None
NNE	0.9	0.9	1.2	None	None	None
NE	None	None	None	None	None	None
ENE	None	None	None	None	None	None
E	None	None	None	None	None	None
ESE	1.5	1.5	None	None	None	None
SE	0.9	0.9	None	None	None	None
SSE	0.9	0.9	None	None	None	None
S	1.5	1.5	1.5	1.5	None	None
SSW	1.2	1.2	1.4	1.5	None	None
SW	1.0	1.0	1.0	1.0	None	None
WSW	1.0	1.0	1.0	1.0	None	None
W	0.8	0.8	0.8	0.8	None	None
WNW	0.8	0.8	1.0	0.9	None	None
NW	0.9	0.9	1.0	1.0	None	None
NNW	0.8	0.8	0.8	0.8	None	None

6.0 ANALYTICAL PROCEDURES

6.1 Gross Beta

Gross beta radioactivity measurements are made utilizing a Tennelec Low-Background Alpha/Beta Counting System. The LLD for air particulates is approximately 3.0 E-3 pCi/m^3.

Air particulate samples are mounted in 2-inch stainless steel planchets and counted directly for 50 minutes.

6.2 Tritium

Liquid samples requiring tritium analysis are treated with a small amount of sodium hydroxide and potassium permanganate crystals and then distilled. Five milliliters of the distillate are mixed with thirteen milliliters of liquid scintillation cocktail and counted in a liquid scintillation counter for 50 minutes. The LLD is approximately 1000 pCi/l.

6.3 Iodine-131

Iodine-131 airborne concentrations are analyzed by the intrinsic germanium (Ge) gamma spectrometry systems. The cartridges are placed on the detector and each charcoal cartridge is counted individually with an approximate LLD of 3.0E-2 pCi/m^3.

6.4 Gamma Spectrometry

Gamma spectrum analysis utilizes intrinsic germanium detectors with thin aluminum windows housed in steel and lead shields. The analyzer system is the Canberra Nuclear 9900 Gamma Spectroscopy System. Table 6-1 summarizes LLD values derived from instrument sensitivity based upon a blank sample background.

Air particulate filter quarterly composites are placed in a Petri dish and analyzed directly for 3,600 seconds.

Liquid samples are boiled down to reduce the volume, transferred to 1000-ml Marinelli beaker, and analyzed for 10,000 seconds.

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

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

Fish samples and edible portions of intervebrate organisms are cleaned, dressed, and placed in a Marinelli beaker for analysis for 1,500 seconds.

6.5 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 lighttight 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 above 150°C. The photons from the lower-energy traps are automatically eliminated through a preheat cycle. Calibration is checked regularly using dosimeters irradiated to known doses. 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.

6.6 EPA Laboratory Intercomparison Program

The Radiochemistry Laboratory at the Harris Energy & Environmental Center in New Hill. North Carolina, provides radioanalytical services for CP&L's nuclear plant radiological environmental monitoring programs. In fulfillment of Technical Specification 3/4.12.3, the laboratory is a participant in the EPA cross-check program

and uses its performance in this program as a major determinant of the accuracy and precision of its analytical results.

During 1995, 45 analyses were completed on 18 samples representing three major environmental media (water, milk, and air filters). Data on the known activities and the normalized standard deviations for the 45 analyses have been received from EPA. A comparison of the average of our reported values with the EPA known activity and its normalized standard deviation is provided below:

Standard Deviation From Known Activity	Percent of Analyses
≤ 1 standard deviation	58
≤ 2 standard deviation	89
≤ 3 standard deviation	98

One of 45 analyses exceeded the 3 sigma action level. This was a gross alpha in water from the Performance Evaluation Study on October 27, 1995. The study shows a significant difference between the grand average (30.0 pCi/ℓ), the EPA known value (51.2 pCi/ℓ), and the HE&EC value (24.9 pCi/ℓ). EPA is attaching a letter to the Performance Evaluation Study Reports concerning the differences, their findings, and recommendations on addressing the bias. The draft of the letter states that research into the bias indicates that matrix differences between the salt solids used to prepare the calibration curve and the salts in the sample are the source of the bias. An alternate procedure is recommended by EPA to correct the bias; however, the EPA environmental cross-check program was terminated as of December 31, 1995, due to the lack of funding. The Interlaboratory Comparison Program of like media within the environmental program for precision and accuracy will be handled and dispersed by Analytics, Inc., an outside vendor.

6.7 Lower Limits of Detection

All samples analyzed met the LLD required by Technical Specification 6.9.1.7 and Table 4.12.1-1. Typical "a priori" LLD values for the samples analyzed are listed in Table 6-1.

TABLE 6-1 (continued)

TYPICAL LOWER LIMITS OF DETECTION (A PRIORI)
GAMMA SPECTROMETRY

Surface Water Samples (Saline Water)	
Isotope	**LLD (pCi/l)**
Mn-54	7
Co-58	7
Fe-59	13
Co-60	7
Zn-65	15
Zr-Nb-95	7
Cs-134	8
Cs-137	7
Ba-La-140	9
Other Expected Gamma Emitters	5 to 81
Air Particulates (Quarterly Composite)	
Isotope	**LLD (pCi/m^3)**
I-131	0.062
Cs-134	0.002
Cs-137	0.002
Other Expected Gamma Emitters	0.001 to 0.061
Shoreline Sediment	
Isotope	**LLD (pCi/kg, dry)**
Cs-134	85
Cs-137	58
Other Expected Gamma Emitters	45 to 1619

TABLE 6-1 (continued)

TYPICAL LOWER LIMITS OF DETECTION (A PRIORI)
GAMMA SPECTROMETRY

Fish	
Isotope	**LLD (pCi/kg, wet)**
Mn-54	49
Co-58	38
Fe-59	139
Co-60	43
Zn-65	145
Cs-134	67
Cs-137	79
Other Expected Gamma Emitters	35 to 1296
Food Products and Vegetation	
Isotope	**LLD (pCi/kg, wet)**
I-131	38
Cs-134	36
Cs-137	32
Other Expected Gamma Emitters	23 to 638

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AC-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	266.2	< 3.62E-02	(< 3.30E-02)
01/09/95	261.7	< 3.37E-02	(< 3.48E-02)
01/16/95	262.3	< 3.26E-02	(< 2.51E-02)
01/23/95	263.5	< 3.89E-02	(< 5.45E-02)
01/30/95	259.6	< 4.86E-02	(< 3.93E-02)
02/06/95	261.2	< 4.57E-02	(< 4.45E-02)
02/13/95	285.0	< 3.46E-02	(< 4.18E-02)
02/20/95	287.8	< 2.98E-02	(< 4.34E-02)
02/27/95	289.6	< 3.17E-02	(< 3.22E-02)
03/06/95	290.9	< 3.04E-02	(< 2.93E-02)
03/13/95	288.1	< 3.35E-02	(< 3.08E-02)
03/20/95	290.4	< 3.97E-02	(< 3.22E-02)
03/27/95	293.0	< 2.61E-02	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI NE - PMAC (AC-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	272.9	< 3.43E-02	(< 3.30E-02)
01/09/95	269.6	< 1.93E-02	(< 3.48E-02)
01/16/95	271.7	< 3.89E-02	(< 2.51E-02)
01/23/95	271.7	< 2.93E-02	(< 5.45E-02)
01/30/95	268.2	< 4.99E-02	(< 3.93E-02)
02/06/95	270.6	< 4.43E-02	(< 4.45E-02)
02/13/95	295.0	< 2.32E-02	(< 4.18E-02)
02/20/95	301.8	< 3.26E-02	(< 4.34E-02)
02/27/95	306.5	< 2.35E-02	(< 3.22E-02)
03/06/95	304.4	< 2.55E-02	(< 2.93E-02)
03/13/95	308.4	< 3.59E-02	(< 3.08E-02)
03/20/95	314.0	< 2.50E-02	(< 3.22E-02)
03/27/95	322.1	< 2.38E-02	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AC-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	289.7	< 3.36E-02	(< 3.30E-02)
01/09/95	285.3	< 4.29E-02	(< 3.48E-02)
01/16/95	291.7	< 3.88E-02	(< 2.51E-02)
01/23/95	295.4	< 4.18E-02	(< 5.45E-02)
01/30/95	277.0	< 4.34E-02	(< 3.93E-02)
02/06/95	283.2	< 3.27E-02	(< 4.45E-02)
02/13/95	275.4	< 4.21E-02	(< 4.18E-02)
02/20/95	280.1	< 3.26E-02	(< 4.34E-02)
02/27/95	281.5	< 3.59E-02	(< 3.22E-02)
03/06/95	278.0	< 3.33E-02	(< 2.93E-02)
03/13/95	282.0	< 2.43E-02	(< 3.08E-02)
03/20/95	283.2	< 3.39E-02	(< 3.22E-02)
03/27/95	284.0	< 2.70E-02	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AC-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	270.8	< 4.08E-02	(< 3.30E-02)
01/09/95	270.6	< 3.41E-02	(< 3.48E-02)
01/16/95	269.7	< 3.81E-02	(< 2.51E-02)
01/23/95	270.5	< 3.51E-02	(< 5.45E-02)
01/30/95	269.8	< 3.47E-02	(< 3.93E-02)
02/06/95	271.1	< 2.88E-02	(< 4.45E-02)
02/13/95	270.4	< 3.75E-02	(< 4.18E-02)
02/20/95	273.8	< 4.48E-02	(< 4.34E-02)
02/27/95	276.3	< 3.70E-02	(< 3.22E-02)
03/06/95	277.3	< 3.97E-02	(< 2.93E-02)
03/13/95	274.0	< 3.27E-02	(< 3.08E-02)
03/20/95	276.0	< 3.71E-02	(< 3.22E-02)
03/27/95	278.1	< 3.54E-02	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AC-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
01/02/95	267.7	(< 3.30E-02)
01/09/95	265.2	(< 3.48E-02)
01/16/95	274.8	(< 2.51E-02)
01/23/95	239.2	(< 5.45E-02)
01/30/95	260.0	(< 3.93E-02)
02/06/95	264.6	(< 4.45E-02)
02/13/95	263.3	(< 4.18E-02)
02/20/95	278.9	(< 4.34E-02)
02/27/95	276.5	(< 3.22E-02)
03/06/95	292.9	(< 2.93E-02)
03/13/95	288.7	(< 3.08E-02)
03/20/95	293.3	(< 3.22E-02)
03/27/95	289.0	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI SSE - SPOIL POND (AC-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	262.4	< 5.57E-02	(< 3.30E-02)
01/09/95	258.6	< 4.68E-02	(< 3.48E-02)
01/16/95	259.2	< 4.82E-02	(< 2.51E-02)
01/23/95	261.9	< 3.87E-02	(< 5.45E-02)
01/30/95	256.0	< 3.74E-02	(< 3.93E-02)
02/06/95	256.7	< 4.08E-02	(< 4.45E-02)
02/13/95	275.6	< 2.75E-02	(< 4.18E-02)
02/20/95	280.1	< 3.38E-02	(< 4.34E-02)
02/27/95	280.6	< 3.09E-02	(< 3.22E-02)
03/06/95	277.2	< 3.11E-02	(< 2.93E-02)
03/13/95	278.9	< 3.13E-02	(< 3.08E-02)
03/20/95	278.0	< 2.65E-02	(< 3.22E-02)
03/27/95	194.0	< 4.24E-02	(< 3.35E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AC-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
0[illegible]/95	289.8	< 4.05E-02	(< 3.70E-02)
04/10/95	290.5	< 3.70E-02	(< 4.34E-02)
04/17/95	294.2	< 2.38E-02	(< 3.27E-02)
04/24/95	291.4	< 3.54E-02	(< 3.11E-02)
05/01/95	294.6	< 4.84E-02	(< 3.95E-02)
05/08/95	289.3	< 2.83E-02	(< 4.47E-02)
05/15/95	302.8	< 3.55E-02	(< 3.56E-02)
05/22/95	277.5	< 2.18E-02	(< 3.90E-02)
05/29/95	289.7	< 3.13E-02	(< 4.35E-02)
06/05/95	292.3	< 3.44E-02	(< 3.84E-02)
06/12/95	127.8	< 9.37E-02	(< 4.31E-02)
06/19/95	282.2	< 3.20E-02	(< 3.74E-02)
06/27/95	296.8	< 2.98E-02	(< 3.64E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI NE - PMAC (AC-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	323.0	< 3.99E-02	(< 3.70E-02)
04/10/95	327.6	< 2.41E-02	(< 4.34E-02)
04/17/95	329.6	< 3.07E-02	(< 3.27E-02)
04/24/95	332.0	< 1.92E-02	(< 3.11E-02)
05/01/95	329.2	< 4.28E-02	(< 3.95E-02)
05/08/95	328.0	< 3.24E-02	(< 4.47E-02)
05/15/95	344.7	< 2.36E-02	(< 3.56E-02)
05/22/95	316.6	< 2.64E-02	(< 3.90E-02)
05/29/95	323.4	< 3.26E-02	(< 4.35E-02)
06/05/95	279.3	< 2.55E-02	(< 3.84E-02)
06/12/95	277.9	< 3.23E-02	(< 4.31E-02)
06/19/95	273.9	< 3.98E-02	(< 3.74E-02)
06/27/95	277.0	< 3.11E-02	(< 3.64E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AC-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	281.7	< 4.15E-02	(< 3.70E-02)
04/10/95	274.7	< 4.03E-02	(< 4.34E-02)
04/17/95	268.9	< 4.32E-02	(< 3.27E-02)
04/24/95	273.4	< 4.14E-02	(< 3.11E-02)
05/01/95	276.7	< 4.60E-02	(< 3.95E-02)
05/08/95	269.2	< 4.45E-02	(< 4.47E-02)
05/15/95	282.7	< 3.89E-02	(< 3.56E-02)
05/22/95	263.5	< 3.24E-02	(< 3.90E-02)
05/29/95	273.3	< 4.07E-02	(< 4.35E-02)
06/05/95	273.5	< 3.97E-02	(< 3.84E-02)
06/12/95	277.4	< 3.52E-02	(< 4.31E-02)
06/19/95	275.1	< 4.92E-02	(< 3.74E-02)
06/27/95	274.6	< 2.75E-02	(< 3.64E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AC-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	275.5	< 3.73E-02	(< 3.70E-02)
04/17/95	172.4	< 5.40E-02	(< 3.27E-02)
04/24/95	283.8	< 4.00E-02	(< 3.11E-02)
05/01/95	287.6	< 3.91E-02	(< 3.95E-02)
05/08/95	280.6	< 2.44E-02	(< 4.47E-02)
05/15/95	299.0	< 4.06E-02	(< 3.56E-02)
05/22/95	274.9	< 3.53E-02	(< 3.90E-02)
05/29/95	286.3	< 3.66E-02	(< 4.35E-02)
06/05/95	287.5	< 4.59E-02	(< 3.84E-02)
06/12/95	292.5	< 2.95E-02	(< 4.31E-02)
06/19/95	285.5	< 3.40E-02	(< 3.74E-02)
06/27/95	286.6	< 3.91E-02	(< 3.64E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AC-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
04/03/95	301.5	(< 3.70E-02)
04/10/95	281.0	(< 4.34E-02)
04/17/95	298.0	(< 3.27E-02)
04/24/95	299.0	(< 3.11E-02)
05/01/95	303.9	(< 3.95E-02)
05/08/95	275.0	(< 4.47E-02)
05/15/95	294.3	(< 3.56E-02)
05/22/95	266.1	(< 3.90E-02)
05/29/95	301.9	(< 4.35E-02)
06/05/95	279.5	(< 3.84E-02)
06/12/95	291.3	(< 4.31E-02)
06/19/95	279.4	(< 3.74E-02)
06/27/95	282.7	(< 3.64E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI SSE - SPOIL POND (AC-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	293.2	< 2.96E-02	(< 3.70E-02)
04/10/95	287.8	< 4.14E-02	(< 4.34E-02)
04/17/95	296.3	< 3.04E-02	(< 3.27E-02)
04/24/95	297.2	< 2.63E-02	(< 3.11E-02)
05/01/95	299.0	< 4.37E-02	(< 3.95E-02)
05/08/95	289.4	< 4.12E-02	(< 4.47E-02)
05/15/95	309.0	< 3.13E-02	(< 3.56E-02)
05/22/95	284.4	< 2.47E-02	(< 3.90E-02)
05/29/95	295.5	< 3.41E-02	(< 4.35E-02)
06/05/95	193.3	< 4.19E-02	(< 3.84E-02)
06/12/95	299.9	< 2.71E-02	(< 4.31E-02)
06/19/95	296.0	< 3.50E-02	(< 3.74E-02)
06/27/95	297.5	< 2.73E-02	(< 3.64E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	266.2	2.11 ± 0.36 E-02	(2.04 ± 0.35 E-02)
01/09/95	261.7	2.73 ± 0.39 E-02	(2.45 ± 0.37 E-02)
01/16/95	262.3	2.47 ± 0.38 E-02	(2.64 ± 0.38 E-02)
01/23/95	263.5	1.62 ± 0.33 E-02	(1.28 ± 0.34 E-02)
01/30/95	259.6	2.00 ± 0.36 E-02	(2.05 ± 0.36 E-02)
02/06/95	261.2	2.51 ± 0.37 E-02	(2.58 ± 0.37 E-02)
02/13/95	285.0	1.81 ± 0.32 E-02	(1.97 ± 0.35 E-02)
02/20/95	287.8	1.56 ± 0.31 E-02	(2.17 ± 0.35 E-02)
02/27/95	289.6	1.59 ± 0.29 E-02	(1.98 ± 0.33 E-02)
03/06/95	290.9	1.59 ± 0.31 E-02	(1.95 ± 0.33 E-02)
03/13/95	288.1	2.00 ± 0.32 E-02	(2.09 ± 0.33 E-02)
03/20/95	290.4	2.02 ± 0.32 E-02	(2.76 ± 0.35 E-02)
03/27/95	293.0	1.57 ± 0.30 E-02	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI NE - PMAC (AP-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	272.9	2.03 ± 0.35 E-02	(2.04 ± 0.35 E-02)
01/09/95	269.6	2.26 ± 0.36 E-02	(2.45 ± 0.37 E-02)
01/16/95	271.7	2.23 ± 0.36 E-02	(2.64 ± 0.38 E-02)
01/23/95	271.7	1.05 ± 0.29 E-02	(1.28 ± 0.34 E-02)
01/30/95	268.2	1.63 ± 0.33 E-02	(2.05 ± 0.36 E-02)
02/06/95	270.6	2.29 ± 0.35 E-02	(2.58 ± 0.37 E-02)
02/13/95	295.0	1.90 ± 0.32 E-02	(1.97 ± 0.35 E-02)
02/20/95	301.8	1.72 ± 0.31 E-02	(2.17 ± 0.35 E-02)
02/27/95	306.5	1.96 ± 0.30 E-02	(1.98 ± 0.33 E-02)
03/06/95	304.4	1.40 ± 0.29 E-02	(1.95 ± 0.33 E-02)
03/13/95	308.4	1.93 ± 0.30 E-02	(2.09 ± 0.33 E-02)
03/20/95	314.0	2.46 ± 0.33 E-02	(2.76 ± 0.35 E-02)
03/27/95	322.1	1.65 ± 0.28 E-02	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	289.7	2.04 ± 0.33 E-02	(2.04 ± 0.35 E-02)
01/09/95	285.3	2.11 ± 0.34 E-02	(2.45 ± 0.37 E-02)
01/16/95	291.7	2.03 ± 0.33 E-02	(2.64 ± 0.38 E-02)
01/23/95	295.4	1.37 ± 0.29 E-02	(1.28 ± 0.34 E-02)
01/30/95	277.0	2.12 ± 0.35 E-02	(2.05 ± 0.36 E-02)
02/06/95	283.2	2.69 ± 0.36 E-02	(2.58 ± 0.37 E-02)
02/13/95	275.4	1.97 ± 0.34 E-02	(1.97 ± 0.35 E-02)
02/20/95	280.1	1.84 ± 0.33 E-02	(2.17 ± 0.35 E-02)
02/27/95	281.5	1.95 ± 0.32 E-02	(1.98 ± 0.33 E-02)
03/06/95	278.0	1.84 ± 0.33 E-02	(1.95 ± 0.33 E-02)
03/13/95	282.0	1.87 ± 0.32 E-02	(2.09 ± 0.33 E-02)
03/20/95	283.2	2.30 ± 0.34 E-02	(2.76 ± 0.35 E-02)
03/27/95	284.0	1.63 ± 0.31 E-02	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	270.8	1.88 ± 0.34 E-02	(2.04 ± 0.35 E-02)
01/09/95	270.6	2.22 ± 0.36 E-02	(2.45 ± 0.37 E-02)
01/16/95	269.7	2.41 ± 0.37 E-02	(2.64 ± 0.38 E-02)
01/23/95	270.5	1.25 ± 0.30 E-02	(1.28 ± 0.34 E-02)
01/30/95	269.8	1.98 ± 0.35 E-02	(2.05 ± 0.36 E-02)
02/06/95	271.1	2.24 ± 0.35 E-02	(2.58 ± 0.37 E-02)
02/13/95	270.4	1.97 ± 0.34 E-02	(1.97 ± 0.35 E-02)
02/20/95	273.8	1.63 ± 0.32 E-02	(2.17 ± 0.35 E-02)
02/27/95	276.3	1.80 ± 0.32 E-02	(1.98 ± 0.33 E-02)
03/06/95	277.3	1.73 ± 0.33 E-02	(1.95 ± 0.33 E-02)
03/13/95	274.0	2.39 ± 0.35 E-02	(2.09 ± 0.33 E-02)
03/20/95	276.0	3.00 ± 0.38 E-02	(2.76 ± 0.35 E-02)
03/27/95	278.1	1.87 ± 0.33 E-02	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
01/02/95	267.7	(2.04 ± 0.35 E-02)
01/09/95	265.2	(2.45 ± 0.37 E-02)
01/16/95	274.8	(2.64 ± 0.38 E-02)
01/23/95	239.2	(1.28 ± 0.34 E-02)
01/30/95	260.0	(2.05 ± 0.36 E-02)
02/06/95	264.6	(2.58 ± 0.37 E-02)
02/13/95	263.3	(1.97 ± 0.35 E-02)
02/20/95	278.9	(2.17 ± 0.35 E-02)
02/27/95	276.5	(1.98 ± 0.33 E-02)
03/06/95	292.9	(1.95 ± 0.33 E-02)
03/13/95	288.7	(2.09 ± 0.33 E-02)
03/20/95	293.3	(2.76 ± 0.35 E-02)
03/27/95	289.0	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
01/02/95	262.4	1.90 ± 0.35 E-02	(2.04 ± 0.35 E-02)
01/09/95	258.6	2.06 ± 0.36 E-02	(2.45 ± 0.37 E-02)
01/16/95	259.2	2.14 ± 0.37 E-02	(2.64 ± 0.38 E-02)
01/23/95	261.9	1.20 ± 0.31 E-02	(1.28 ± 0.34 E-02)
01/30/95	256.0	1.10 ± 0.31 E-02	(2.05 ± 0.36 E-02)
02/06/95	256.7	2.72 ± 0.38 E-02	(2.58 ± 0.37 E-02)
02/13/95	275.6	1.83 ± 0.33 E-02	(1.97 ± 0.35 E-02)
02/20/95	280.1	1.67 ± 0.32 E-02	(2.17 ± 0.35 E-02)
02/27/95	280.6	1.71 ± 0.31 E-02	(1.98 ± 0.33 E-02)
03/06/95	277.2	1.65 ± 0.33 E-02	(1.95 ± 0.33 E-02)
03/13/95	278.9	2.16 ± 0.34 E-02	(2.09 ± 0.33 E-02)
03/20/95	278.0	2.22 ± 0.34 E-02	(2.76 ± 0.35 E-02)
03/27/95	194.0	1.80 ± 0.42 E-02	(1.75 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	289.8	1.70 ± 0.31 E-02	(2.28 ± 0.33 E-02)
04/10/95	290.5	1.86 ± 0.32 E-02	(2.11 ± 0.34 E-02)
04/17/95	294.2	1.66 ± 0.31 E-02	(2.10 ± 0.33 E-02)
04/24/95	291.4	2.24 ± 0.34 E-02	(2.57 ± 0.35 E-02)
05/01/95	294.6	1.60 ± 0.30 E-02	(1.84 ± 0.31 E-02)
05/08/95	289.3	1.33 ± 0.28 E-02	(1.85 ± 0.32 E-02)
05/15/95	302.8	2.16 ± 0.33 E-02	(1.95 ± 0.33 E-02)
05/22/95	277.5	1.76 ± 0.33 E-02	(1.80 ± 0.35 E-02)
05/29/95	289.7	2.09 ± 0.33 E-02	(1.92 ± 0.31 E-02)
06/05/95	292.3	1.23 ± 0.28 E-02	(1.53 ± 0.30 E-02)
06/12/95	127.8	< 8.13E-03	(1.41 ± 0.30 E-02)
06/19/95	282.2	1.76 ± 0.31 E-02	(1.71 ± 0.31 E-02)
06/27/95	296.8	9.21 ± 2.59 E-03	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI NE - PMAC (AP-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	323.0	2.08 ± 0.30 E-02	(2.28 ± 0.33 E-02)
04/10/95	327.6	2.15 ± 0.31 E-02	(2.11 ± 0.34 E-02)
04/17/95	329.6	3.31 ± 0.36 E-02	(2.10 ± 0.33 E-02)
04/24/95	332.0	3.67 ± 0.37 E-02	(2.57 ± 0.35 E-02)
05/01/95	329.2	1.70 ± 0.28 E-02	(1.84 ± 0.31 E-02)
05/08/95	328.0	1.51 ± 0.27 E-02	(1.85 ± 0.32 E-02)
05/15/95	344.7	1.70 ± 0.28 E-02	(1.95 ± 0.33 E-02)
05/22/95	316.6	1.84 ± 0.31 E-02	(1.80 ± 0.35 E-02)
05/29/95	323.4	2.02 ± 0.30 E-02	(1.92 ± 0.31 E-02)
06/05/95	279.3	1.22 ± 0.28 E-02	(1.53 ± 0.30 E-02)
06/12/95	277.9	1.39 ± 0.31 E-02	(1.41 ± 0.30 E-02)
06/19/95	273.9	1.52 ± 0.30 E-02	(1.71 ± 0.31 E-02)
06/27/95	277.0	7.72 ± 2.64 E-03	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	281.7	1.81 ± 0.32 E-02	(2.28 ± 0.33 E-02)
04/10/95	274.7	1.04 ± 0.28 E-02	(2.11 ± 0.34 E-02)
04/17/95	268.9	1.66 ± 0.33 E-02	(2.10 ± 0.33 E-02)
04/24/95	273.4	2.45 ± 0.36 E-02	(2.57 ± 0.35 E-02)
05/01/95	276.7	1.86 ± 0.33 E-02	(1.84 ± 0.31 E-02)
05/08/95	269.2	1.55 ± 0.31 E-02	(1.85 ± 0.32 E-02)
05/15/95	282.7	1.98 ± 0.34 E-02	(1.95 ± 0.33 E-02)
05/22/95	263.5	1.53 ± 0.34 E-02	(1.80 ± 0.35 E-02)
05/29/95	273.3	2.04 ± 0.34 E-02	(1.92 ± 0.31 E-02)
06/05/95	273.5	1.33 ± 0.30 E-02	(1.53 ± 0.30 E-02)
06/12/95	277.4	1.45 ± 0.32 E-02	(1.41 ± 0.30 E-02)
06/19/95	275.1	1.67 ± 0.31 E-02	(1.71 ± 0.31 E-02)
06/27/95	274.6	7.44 ± 2.64 E-03	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	275.5	1.89 ± 0.33 E-02	(2.28 ± 0.33 E-02)
04/17/95	172.4	1.35 ± 0.45 E-02	(2.10 ± 0.33 E-02)
04/24/95	283.8	2.22 ± 0.34 E-02	(2.57 ± 0.35 E-02)
05/01/95	287.6	1.78 ± 0.31 E-02	(1.84 ± 0.31 E-02)
05/08/95	280.6	1.75 ± 0.31 E-02	(1.85 ± 0.32 E-02)
05/15/95	299.0	1.72 ± 0.31 E-02	(1.95 ± 0.33 E-02)
05/22/95	274.9	1 60 ± 0.33 E-02	(1.80 ± 0.35 E-02)
05/29/95	286.3	1.91 ± 0.32 E-02	(1.92 ± 0.31 E-02)
06/05/95	287.5	1.22 ± 0.28 E-02	(1.53 ± 0.30 E-02)
06/12/95	292.5	1.26 ± 0.30 E-02	(1.41 ± 0.30 E-02)
06/19/95	285.5	1.66 ± 0.30 E-02	(1.71 ± 0.31 E-02)
06/27/95	286.6	7.05 ± 2.52 E-03	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
04/03/95	301.5	(2.28 ± 0.33 E-02)
04/10/95	281.0	(2.11 ± 0.34 E-02)
04/17/95	298.0	(2.10 ± 0.33 E-02)
04/24/95	299.0	(2.57 ± 0.35 E-02)
05/01/95	303.9	(1.84 ± 0.31 E-02)
05/08/95	275.0	(1.85 ± 0.32 E-02)
05/15/95	294.3	(1.95 ± 0.33 E-02)
05/22/95	266.1	(1.80 ± 0.35 E-02)
05/29/95	301.9	(1.92 ± 0.31 E-02)
06/05/95	279.5	(1.53 ± 0.30 E-02)
06/12/95	291.3	(1.41 ± 0.30 E-02)
06/19/95	279.4	(1.71 ± 0.31 E-02)
06/27/95	282.7	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
04/03/95	293.2	1.75 ± 0.31 E-02	(2.28 ± 0.33 E-02)
04/10/95	287.8	2.01 ± 0.33 E-02	(2.11 ± 0.34 E-02)
04/17/95	296.3	1.60 ± 0.31 E-02	(2.10 ± 0.33 E-02)
04/24/95	297.2	2.34 ± 0.34 E-02	(2.57 ± 0.35 E-02)
05/01/95	299.0	1.62 ± 0.30 E-02	(1.84 ± 0.31 E-02)
05/08/95	289.4	1.69 ± 0.30 E-02	(1.85 ± 0.32 E-02)
05/15/95	309.0	1.75 ± 0.31 E-02	(1.95 ± 0.33 E-02)
05/22/95	284.4	1.42 ± 0.31 E-02	(1.80 ± 0.35 E-02)
05/29/95	295.5	1.91 ± 0.31 E-02	(1.92 ± 0.31 E-02)
06/05/95	193.3	1.88 ± 0.42 E-02	(1.53 ± 0.30 E-02)
06/12/95	299.9	1.70 ± 0.31 E-02	(1.41 ± 0.30 E-02)
06/19/95	296.0	1.42 ± 0.28 E-02	(1.71 ± 0.31 E-02)
06/27/95	297.5	7.91 ± 2.50 E-03	(9.00 ± 2.67 E-03)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3599.3 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.27 ± 0.23 E-01	(1.61 ± 0.26 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI NE - PMAC (AP-201)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3776.9 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.19 ± 0.20 E-01	(1.61 ± 0.26 E-01)
K-40	3.72 ± 2.35 E-02	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3686.5 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.35 ± 0.18 E-01	(1.61 ± 0.26 E-01)
BI-214	2.74 ± 1.47 E-03	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3548.4 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.54 ± 0.26 E-01	(1.61 ± 0.26 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3554.1 CUBIC METERS

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.61 ± 0.26 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FIRST QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3412.9 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.14 ± 0.22 E-01	(1.61 ± 0.26 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3618.9 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.44 ± 0.33 E-01)
K-40	6.22 ± 2.48 E-02	(3.78 ± 1.38 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI NE - PMAC (AP-201)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 4062.2 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.52 ± 0.25 E-01	(1.44 ± 0.33 E-01)
K-40	LESS THAN LLD	(3.78 ± 1.38 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3564.7 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.44 ± 0.33 E-01)
K-40	8.60 ± 2.45 E-02	(3.78 ± 1.38 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3312.2 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.44 ± 0.33 E-01)
K-40	8.66 ± 2.71 E-02	(3.78 ± 1.38 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3753.6 CUBIC METERS

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.44 ± 0.33 E-01)
K-40	(3.78 ± 1.38 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

SECOND QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3738.7 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.05 ± 0.17 E-01	(1.44 ± 0.33 E-01)
K-40	LESS THAN LLD	(3.78 ± 1.38 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 01/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 415.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.46 ± 0.47 E+00	(3.30 ± 0.32 E+00)
K-40	2.58 ± 0.56 E+00	(1.69 ± 0.45 E+00)
I-131	< 4.38E-02	(< 2.74E-02)
CS-134	< 3.34E-02	(< 2.73E-02)
CS-137	< 3.72E-02	(< 2.89E-02)
AC-228	LESS THAN LLD	(1.34 ± 1.08 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 01/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 437.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.07 ± 0.28 E+00	(3.30 ± 0.32 E+00)
K-40	2.09 ± 0.45 E+00	(1.69 ± 0.45 E+00)
I-131	< 3.17E-02	(< 2.74E-02)
CS-134	< 3.21E-02	(< 2.73E-02)
CS-137	< 2.85E-02	(< 2.89E-02)
AC-228	LESS THAN LLD	(1.34 ± 1.08 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 01/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 445.2 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(3.30 ± 0.32 E+00)
K-40	(1.69 ± 0.45 E+00)
I-131	(< 2.74E-02)
CS-134	(< 2.73E-02)
CS-137	(< 2.89E-02)
AC-228	(1.34 ± 1.08 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 01/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 409.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.96 ± 0.40 E+00	(3.30 ± 0.32 E+00)
K-40	2.30 ± 0.50 E+00	(1.69 ± 0.45 E+00)
I-131	< 4.22E-02	(< 2.74E-02)
CS-134	< 3.63E-02	(< 2.73E-02)
CS-137	< 3.75E-02	(< 2.89E-02)
AC-228	LESS THAN LLD	(1.34 ± 1.08 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 01/02/95)

FESCUE

GAMMA SPECTROMETRY MASS: 310.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.40 ± 0.47 E+00	(4.42 ± 0.42 E+00)
K-40	4.65 ± 0.79 E+00	(5.96 ± 0.69 E+00)
I-131	< 4.58E-02	(< 4.00E-02)
CS-134	< 3.96E-02	(< 3.88E-02)
CS-137	< 4.01E-02	(< 3.94E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 01/02/95)

FESCUE

GAMMA SPECTROMETRY MASS: 351.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.56 ± 0.35 E+00	(4.42 ± 0.42 E+00)
K-40	5.92 ± 0.81 E+00	(5.96 ± 0.69 E+00)
I-131	< 4.80E-02	(< 4.00E-02)
CS-134	< 4.85E-02	(< 3.88E-02)
CS-137	< 4.20E-02	(< 3.94E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 01/02/95)

FESCUE

GAMMA SPECTROMETRY MASS: 352.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(4.42 ± 0.42 E+00)
K-40	(5.96 ± 0.69 E+00)
I-131	(< 4.00E-02)
CS-134	(< 3.88E-02)
CS-137	(< 3.94E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JANUARY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 01/02/95)

FESCUE

GAMMA SPECTROMETRY MASS: 366.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.77 ± 0.37 E+00	(4.42 ± 0.42 E+00)
K-40	5.57 ± 0.68 E+00	(5.96 ± 0.69 E+00)
I-131	< 4.16E-02	(< 4.00E-02)
CS-134	< 3.79E-02	(< 3.88E-02)
CS-137	< 3.35E-02	(< 3.94E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 02/06/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 446.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.94 ± 0.32 E+00	(1.58 ± 0.31 E+00)
K-40	2.30 ± 0.60 E+00	(1.86 ± 0.55 E+00)
I-131	< 4.40E-02	(< 4.55E-02)
CS-134	< 3.45E-02	(< 3.82E-02)
CS-137	< 3.39E-02	(< 3.70E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 02/06/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 427 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.77 ± 2.59 E-01	(1.58 ± 0.31 E+00)
K-40	1.87 ± 0.41 E+00	(1.86 ± 0.55 E+00)
I-131	< 4.51E-02	(< 4.55E-02)
CS-134	< 4.17E-02	(< 3.82E-02)
CS-137	< 3.54E-02	(< 3.70E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 02/06/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 461 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.58 ± 0.31 E+00)
K-40	(1.86 ± 0.55 E+00)
I-131	(< 4.55E-02)
CS-134	(< 3.82E-02)
CS-137	(< 3.70E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 02/06/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 448.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.63 ± 0.32 E+00	(1.58 ± 0.31 E+00)
K-40	1.70 ± 0.41 E+00	(1.86 ± 0.55 E+00)
I-131	< 4.63E-02	(< 4.55E-02)
CS-134	< 3.60E-02	(< 3.82E-02)
CS-137	< 3.45E-02	(< 3.70E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 02/06/95)

FESCUE

GAMMA SPECTROMETRY MASS: 326.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.98 ± 0.42 E+00	(2.35 ± 0.32 E+00)
K-40	5.99 ± 0.79 E+00	(5.49 ± 0.75 E+00)
I-131	< 4.14E-02	(< 3.42E-02)
CS-134	< 4.46E-02	(< 3.29E-02)
CS-137	< 3.95E-02	(< 2.57E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 02/06/95)

FESCUE

GAMMA SPECTROMETRY MASS: 345.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.77 ± 0.40 E+00	(2.35 ± 0.32 E+00)
K-40	5.78 ± 0.79 E+00	(5.49 ± 0.75 E+00)
I-131	< 4.25E-02	(< 3.42E-02)
CS-134	< 4.17E-02	(< 3.29E-02)
CS-137	< 4.31E-02	(< 2.57E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 02/06/95)

FESCUE

GAMMA SPECTROMETRY MASS: 398.4 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.35 ± 0.32 E+00)
K-40	(5.49 ± 0.75 E+00)
I-131	(< 3.42E-02)
CS-134	(< 3.29E-02)
CS-137	(< 2.57E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

FEBRUARY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 02/06/95)

FESCUE

GAMMA SPECTROMETRY MASS: 354.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.05 ± 0.31 E+00	(2.35 ± 0.32 E+00)
K-40	6.20 ± 0.82 E+00	(5.49 ± 0.75 E+00)
I-131	< 4.13E-02	(< 3.42E-02)
CS-134	< 4.07E-02	(< 3.29E-02)
CS-137	< 3.40E-02	(< 2.57E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 03/09/95)

GRASS

GAMMA SPECTROMETRY MASS: 278.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.17 ± 0.49 E+00	(2.57 ± 0.38 E+00)
K-40	4.66 ± 0.77 E+00	(6.11 ± 0.83 E+00)
I-131	< 5.20E-02	(< 5.13E-02)
CS-134	< 4.15E-02	(< 3.89E-02)
CS-137	< 4.39E-02	(< 4.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 03/09/95)

GRASS

GAMMA SPECTROMETRY MASS: 356.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.14 ± 0.30 E+00	(2.57 ± 0.38 E+00)
K-40	3.24 ± 0.66 E+00	(6.11 ± 0.83 E+00)
I-131	< 4.62E-02	(< 5.13E-02)
CS-134	< 3.67E-02	(< 3.89E-02)
CS-137	< 3.50E-02	(< 4.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 03/09/95)

GRASS

GAMMA SPECTROMETRY MASS: 345.1 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.57 ± 0.38 E+00)
K-40	(6.11 ± 0.83 E+00)
I-131	(< 5.13E-02)
CS-134	(< 3.89E-02)
CS-137	(< 4.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 03/09/95)

GRASS

GAMMA SPECTROMETRY MASS: 311.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.93 ± 0.43 E+00	(2.57 ± 0.38 E+00)
K-40	4.44 ± 0.63 E+00	(6.11 ± 0.83 E+00)
I-131	< 4.87E-02	(< 5.13E-02)
CS-134	< 3.77E-02	(< 3.89E-02)
CS-137	< 3.36E-02	(< 4.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 03/09/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 381.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.97 ± 0.38 E+00	(2.78 ± 0.32 E+00)
K-40	1.54 ± 0.49 E+00	(1.73 ± 0.52 E+00)
I-131	< 4.92E-02	(< 4.19E-02)
CS-134	< 3.68E-02	(< 3.41E-02)
CS-137	< 3.43E-02	(< 3.58E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 03/09/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 435.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.86 ± 0.27 E+00	(2.78 ± 0.32 E+00)
K-40	1.54 ± 0.45 E+00	(1.73 ± 0.52 E+00)
I-131	< 3.66E-02	(< 4.19E-02)
CS-134	< 2.95E-02	(< 3.41E-02)
CS-137	< 2.66E-02	(< 3.58E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 03/09/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 436 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.78 ± 0.32 E+00)
K-40	(1.73 ± 0.52 E+00)
I-131	(< 4.19E-02)
CS-134	(< 3.41E-02)
CS-137	(< 3.58E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MARCH, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 03/09/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 353.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.80 ± 0.32 E+00	(2.78 ± 0.32 E+00)
K-40	1.67 ± 0.57 E+00	(1.73 ± 0.52 E+00)
I-131	< 5.16E-02	(< 4.19E-02)
CS-134	< 3.99E-02	(< 3.41E-02)
CS-137	< 3.18E-02	(< 3.58E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 04/01/95)

GRASS

GAMMA SPECTROMETRY MASS: 343.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(6.24 ± 2.19 E-01)
K-40	7.36 ± 0.81 E+00	(6.21 ± 0.71 E+00)
I-131	< 4.85E-02	(< 3.84E-02)
CS-134	< 4.46E-02	(< 3.84E-02)
CS-137	< 3.59E-02	(< 3.28E-02)
TL-208	6.79 ± 3.04 E-02	(LESS THAN LLD)
PB-212	6.71 ± 6.65 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 04/01/95)

GRASS

GAMMA SPECTROMETRY MASS: 404.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.32 ± 1.92 E-01	(6.24 ± 2.19 E-01)
K-40	5.97 ± 0.64 E+00	(6.21 ± 0.71 E+00)
I-131	< 3.96E-02	(< 3.84E-02)
CS-134	< 3.85E-02	(< 3.84E-02)
CS-137	< 3.06E-02	(< 3.28E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 04/01/95)

GRASS

GAMMA SPECTROMETRY MASS: 388.8 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(6.24 ± 2.19 E-01)
K-40	(6.21 ± 0.71 E+00)
I-131	(< 3.84E-02)
CS-134	(< 3.84E-02)
CS-137	(< 3.28E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 04/01/95)

GRASS

GAMMA SPECTROMETRY MASS: 406.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.15 ± 1.74 E-01	(6.24 ± 2.19 E-01)
K-40	5.78 ± 0.71 E+00	(6.21 ± 0.71 E+00)
I-131	< 4.07E-02	(< 3.84E-02)
CS-134	< 3.73E-02	(< 3.84E-02)
CS-137	< 3.41E-02	(< 3.28E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 04/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 380.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.21 ± 0.47 E+00	(2.31 ± 0.50 E+00)
K-40	2.99 ± 0.60 E+00	(2.57 ± 0.75 E+00)
I-131	< 5.66E-02	(< 5.77E-02)
CS-134	< 5.01E-02	(< 4.85E-02)
CS-137	< 4.31E-02	(< 4.62E-02)
TL-208	LESS THAN LLD	(4.65 ± 2.66 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 04/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 368.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.31 ± 0.50 E+00)
K-40	3.79 ± 0.52 E+00	(2.57 ± 0.75 E+00)
I-131	< 4.56E-02	(< 5.77E-02)
CS-134	< 3.82E-02	(< 4.85E-02)
CS-137	< 3.76E-02	(< 4.62E-02)
TL-208	LESS THAN LLD	(4.65 ± 2.66 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 04/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 366 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.31 ± 0.50 E+00)
K-40	(2.57 ± 0.75 E+00)
I-131	(< 5.77E-02)
CS-134	(< 4.85E-02)
CS-137	(< 4.62E-02)
TL-208	(4.65 ± 2.66 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

APRIL, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 04/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 373.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.31 ± 0.50 E+00)
K-40	3.68 ± 0.61 E+00	(2.57 ± 0.75 E+00)
I-131	< 4.96E-02	(< 5.77E-02)
CS-134	< 3.91E-02	(< 4.85E-02)
CS-137	< 3.01E-02	(< 4.62E-02)
TL-208	LESS THAN LLD	(4.65 ± 2.66 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 05/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 388.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.02 ± 1.79 E-01	(LESS THAN LLD)
K-40	3.66 ± 0.64 E+00	(3.96 ± 0.48 E+00)
I-131	< 3.15E-02	(< 3.01E-02)
CS-134	< 3.27E-02	(< 3.52E-02)
CS-137	< 3.16E-02	(< 3.11E-02)
TL-208	LESS THAN LLD	(2.49 ± 1.73 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 05/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 509.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.07 ± 1.50 E-01	(LESS THAN LLD)
K-40	2.63 ± 0.42 E+00	(3.96 ± 0.48 E+00)
I-131	< 2.53E-02	(< 3.01E-02)
CS-134	< 2.55E-02	(< 3.52E-02)
CS-137	< 2.60E-02	(< 3.11E-02)
TL-208	LESS THAN LLD	(2.49 ± 1.73 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 05/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 456.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.96 ± 0.48 E+00)
I-131	(< 3.01E-02)
CS-134	(< 3.52E-02)
CS-137	(< 3.11E-02)
TL-208	(2.49 ± 1.73 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 05/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 477.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.37 ± 0.55 E+00	(3.96 ± 0.48 E+00)
I-131	< 4 12E-02	(< 3.01E-02)
CS-134	< 3.80E-02	(< 3.52E-02)
CS-137	< 3.44E-02	(< 3.11E-02)
TL-208	LESS THAN LLD	(2.49 ± 1.73 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 05/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 375.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.64 ± 0.53 E+00	(3.08 ± 0.48 E+00)
I-131	< 3.57E-02	(< 2.79E-02)
CS-134	< 3.67E-02	(< 2.88E-02)
CS-137	< 3.54E-02	(< 2.95E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 05/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 408.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.05 ± 0.61 E+00	(3.08 ± 0.48 E+00)
I-131	< 3.73E-02	(< 2.79E-02)
CS-134	< 3.91E-02	(< 2.88E-02)
CS-137	< 3.93E-02	(< 2.95E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 05/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 498.1 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.08 ± 0.48 E+00)
I-131	(< 2.79E-02)
CS-134	(< 2.88E-02)
CS-137	(< 2.95E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 05/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 499.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	1.08 ± 0.53 E+00	(3.08 ± 0.48 E+00)
I-131	< 3.72E-02	(< 2.79E-02)
CS-134	< 3.13E-02	(< 2.88E-02)
CS-137	< 3.04E-02	(< 2.95E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 05/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 377.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	6.82 ± 2.17 E-01	(9.56 ± 2.43 E-01)
K-40	2.93 ± 0.52 E+00	(2.49 ± 0.45 E+00)
I-131	< 3.45E-02	(< 3.67E-02)
CS-134	< 3.60E-02	(< 3.16E-02)
CS-137	< 3.78E-02	(< 4.14E-02)
PB-214	5.40 ± 4.84 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 05/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 564.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.38 ± 1.73 E-01	(9.56 ± 2.43 E-01)
K-40	2.32 ± 0.44 E+00	(2.49 ± 0.45 E+00)
I-131	< 2.19E-02	(< 3.67E-02)
CS-134	< 2.32E-02	(< 3.16E-02)
CS-137	< 2.11E-02	(< 4.14E-02)
PB-214	5.97 ± 3.37 E-02	(LESS THAN LLD)
BI-214	6.99 ± 4.54 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 05/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 500 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(9.56 ± 2.43 E-01)
K-40	(2.49 ± 0.45 E+00)
I-131	(< 3.67E-02)
CS-134	(< 3.16E-02)
CS-137	(< 4.14E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

MAY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 05/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 522.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.95 ± 1.94 E-01	(9.56 ± 2.43 E-01)
K-40	1.82 ± 0.36 E+00	(2.49 ± 0.45 E+00)
I-131	< 2.58E-02	(< 3.67E-02)
CS-134	< 2.86E-02	(< 3.16E-02)
CS-137	< 2.39E-02	(< 4.14E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 06/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 413.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.89 ± 1.42 E-01	(LESS THAN LLD)
K-40	2.60 ± 0.50 E+00	(3.55 ± 0.48 E+00)
I-131	< 4.36E-02	(< 3.40E-02)
CS-134	< 3.18E-02	(< 2.45E-02)
CS-137	< 2.92E-02	(< 2.27E-02)
RA-226	LESS THAN LLD	(2.75 ± 2.69 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 06/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 465.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.97 ± 0.50 E+00	(3.55 ± 0.48 E+00)
I-131	< 5.01E-02	(< 3.40E-02)
CS-134	< 3.98E-02	(< 2.45E-02)
CS-137	< 3.16E-02	(< 2.27E-02)
RA-226	LESS THAN LLD	(2.75 ± 2.69 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 06/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 616.7 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.55 ± 0.48 E+00)
I-131	(< 3.40E-02)
CS-134	(< 2.45E-02)
CS-137	(< 2.27E-02)
RA-226	(2.75 ± 2.69 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 06/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 601.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.80 ± 1.27 E-01	(LESS THAN LLD)
K-40	2.52 ± 0.39 E+00	(3.55 ± 0.48 E+00)
I-131	< 3.02E-02	(< 3.40E-02)
CS-134	< 2.58E-02	(< 2.45E-02)
CS-137	< 2.18E-02	(< 2.27E-02)
RA-226	LESS THAN LLD	(2.75 ± 2.69 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 06/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 415.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.76 ± 1.60 E-01	(LESS THAN LLD)
K-40	1.99 ± 0.44 E+00	(3.41 ± 0.49 E+00)
I-131	< 4.02E-02	(< 3.71E-02)
CS-134	< 3.24E-02	(< 2.66E-02)
CS-137	< 3.36E-02	(< 2.47E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 06/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 493.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.04 ± 0.46 E+00	(3.41 ± 0.49 E+00)
I-131	< 4.68E-02	(< 3.71E-02)
CS-134	< 3.32E-02	(< 2.66E-02)
CS-137	< 3.02E-02	(< 2.47E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 06/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 541.5 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.41 ± 0.49 E+00)
I-131	(< 3.71E-02)
CS-134	(< 2.66E-02)
CS-137	(< 2.47E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 06/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 465.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.03 ± 0.56 E+00	(3.41 ± 0.49 E+00)
I-131	< 3.82E-02	(< 3.71E-02)
CS-134	< 3.05E-02	(< 2.66E-02)
CS-137	< 2.79E-02	(< 2.47E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 06/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 424.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.96 ± 2.21 E-01	(7.58 ± 1.79 E-01)
K-40	3.42 ± 0.56 E+00	(2.96 ± 37.0 E+00)
I-131	< 5.73E-02	(< 4.23E-02)
CS-134	< 3.87E-02	(< 2.64E-02)
CS-137	< 3.62E-02	(< 2.83E-02)
RA-226	LESS THAN LLD	(8.86 ± 5.16 E-01)
AC-228	LESS THAN LLD	(1.44 ± 0.83 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 06/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 408.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(7.58 ± 1.79 E-01)
K-40	3.29 ± 0.53 E+00	(2.96 ± 37.0 E+00)
I-131	< 4.76E-02	(< 4.23E-02)
CS-134	< 3.79E-02	(< 2.64E-02)
CS-137	< 3.32E-02	(< 2.83E-02)
TL-208	2.55 ± 2.36 E-02	(LESS THAN LLD)
RA-226	LESS THAN LLD	(8.86 ± 5.16 E-01)
AC-228	LESS THAN LLD	(1.44 ± 0.83 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 06/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 493.1 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(7.58 ± 1.79 E-01)
K-40	(2.96 ± 37.0 E+00)
I-131	(< 4.23E-02)
CS-134	(< 2.64E-02)
CS-137	(< 2.83E-02)
RA-226	(8.86 ± 5.16 E-01)
AC-228	(1.44 ± 0.83 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JUNE, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 06/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 468.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.60 ± 2.30 E-01	(7.58 ± 1.79 E-01)
K-40	2.96 ± 0.47 E+00	(2.96 ± 37.0 E+00)
I-131	< 5.19E-02	(< 4.23E-02)
CS-134	< 2.77E-02	(< 2.64E-02)
CS-137	< 3.19E-02	(< 2.83E-02)
RA-226	LESS THAN LLD	(8.86 ± 5.16 E-01)
AC-228	LESS THAN LLD	(1.44 ± 0.83 E-01)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

5.5 MI SSW - FREE SWIMMERS AT DISCHARGE (FI-700)
(DATE COLLECTED: 05/16/95)

FREE SWIMMERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 455.3 GRAMS FRESH

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	4.25 ± 0.96 E+00	(3.26 ± 0.81 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

FREE SWIMMERS - ATLANTIC OCEAN (CONTROL) (FI-703)
(DATE COLLECTED: 05/16/95)

FREE SWIMMERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 523.4 GRAMS FRESH

ISOTOPE	CONTROL ACTIVITY
K-40	(3.26 ± 0.81 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

5.5 MI SSW - BOTTOM FEEDER AT DISCHARGE (FI-701)
(DATE COLLECTED: 05/16/95)

BOTTOM FEEDERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 629.2 GRAMS FRESH

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	1.59 ± 0.57 E+00	(2.60 ± 0.73 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL) (FI-704)
(DATE COLLECTED: 05/16/95)

BOTTOM FEEDERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 489.8 GRAMS FRESH

ISOTOPE	CONTROL ACTIVITY
K-40	(2.60 ± 0.73 E+00)

INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

5.5 MI SSW - SH/BO AT DISCHARGE (IN-702)
(DATE COLLECTED: 05/16/95)

GAMMA SPECTROMETRY MASS: 518.5 GRAMS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.07 ± 0.86 E+00	(9.73 ± 4.21 E-01)

INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

SH/BO - ATLANTIC OCEAN (CONTROL) (IN-705)
(DATE COLLECTED: 05/16/95)

GAMMA SPECTROMETRY MASS: 625.8 GRAMS

ISOTOPE	CONTROL ACTIVITY
K-40	(9.73 ± 4.21 E-01)

SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

FIRST SEMI-ANNUAL, 1995

4.9 MI SSW - DISCHARGE, BEACH (SS-500)
(DATE COLLECTED: 05/16/95)

GAMMA SPECTROMETRY MASS: 1000.9 GRAMS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	5.89 ± 3.75 E-01	(NOT REQUIRED)
TL-208	3.28 ± 2.13 E-02	(NOT REQUIRED)
PB-212	1.78 ± 0.63 E-01	(NOT REQUIRED)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JANUARY, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.31E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(1.55 ± 0.62 E+02)
TL-208	(3.13 ± 1.93 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JANUARY, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.31E+02	(< 9.31E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.03 ± 0.72 E+02	(1.55 ± 0.62 E+02)
TL-208	LESS THAN LLD	(3.13 ± 1.93 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

FEBRUARY, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 8.71E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
ALL GAMMA EMITTERS	LESS THAN LLD

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

FEBRUARY, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 8.71E+02	(< 8.71E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.40 ± 1.06 E+02	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

MARCH, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.35E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
PB-214	(1.80 ± 1.34 E+01)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

MARCH, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.35E+02	(< 9.35E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	5.17 ± 1.03 E+02	(LESS THAN LLD)
PB-214	LESS THAN LLD	(1.80 ± 1.34 E+01)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

APRIL, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.18E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(6.94 ± 1.23 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

APRIL, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.18E+02	(< 9.18E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.69 ± 0.96 E+02	(6.94 ± 1.23 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

MAY, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.04E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(1.89 ± 1.10 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

MAY, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.04E+02	(< 9.04E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	7.51 ± 1.01 E+02	(1.89 ± 1.10 E+02)
RA-226	1.71 ± 1.13 E+02	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JUNE, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.09E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
BI-214	(1.36 ± 0.99 E+01)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JUNE, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.09E+02	(< 9.09E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.16 ± 0.99 E+02	(LESS THAN LLD)
BI-214	LESS THAN LLD	(1.36 ± 0.99 E+01)

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

FIRST QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(1.40 ± 0.37 E+01)
1	1.1 MI E - MOORE ST EXTENSION	1.02 ± 0.37 E+01
2	1.0 MI ESE - MOORE ST EXTENSION	9.40 ± 3.60 E+00
3	0.9 MI SE - MOORE ST EXTENSION	9.70 ± 3.70 E+00
4	1.1 MI SSE - MOORE ST EXTENTION	1.05 ± 0.35 E+01
5	1.1 MI S - LEONARD ST	1.06 ± 0.39 E+01
6	1.0 MI S - BEMCO POWER LINE	9.30 ± 3.60 E+00
7	1.0 MI SW - HWY 87 AT RIGHT-OF-WAY	1.02 ± 0.38 E+01
8	1.2 MI W - HWY 87	9.00 ± 3.60 E+00
9	1.0 MI WNW - BETHEL CHURCH RD	1.25 ± 0.37 E+01
10	0.9 MI NW - BETHEL CHURCH RD	8.90 ± 3.90 E+00
11	0.9 MI NNW - BETHEL CHURCH RD	1.36 ± 0.38 E+01
13	1.2 MI NNE - BETHEL CHURCH RD	9.00 ± 3.50 E+00
14	0.5 MI NE - INTAKE CANAL	1.61 ± 0.36 E+01
15	0.9 MI ENE - INTAKE CANAL	1.18 ± 0.36 E+01
16	1.0 MI WSW - DISCHARGE CANAL	1.04 ± 0.36 E+01
17	1.5 MI ESE - PFIZER PROPERTY	1.58 ± 0.43 E+01
18	1.7 MI SE - PFIZER PROPERTY	1.23 ± 0.35 E+01
20	2.0 MI S - MOORE ST	8.70 ± 3.60 E+00
21	2.9 MI SSW - WEST ST AT SEA CAPTAIN	1.30 ± 0.36 E+01
22	5.3 MI SW - CASWELL BEACH RD	1.04 ± 0.36 E+01
23	4.6 MI WSW - NEAR AIRPORT	7.90 ± 3.50 E+00

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

FIRST QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(1.40 ± 0.37 E+01)
24	3.0 MI W - HWY 211	9.70 ± 3.70 E+00
25	8.7 MI WNW - ANTIOCH BAPTIST CHURCH	1.39 ± 0.38 E+01
26	5.9 MI NW - W BOILING SPRINGS RD	1.32 ± 0.36 E+01
27	5.0 MI NNW - HWY 133	8.60 ± 3.60 E+00
28	4.2 MI NW - AT SOUTH BRUNSWICK HS	9.90 ± 3.60 E+00
31	2.6 MI ENE - SUNNY POINT MOT	1.08 ± 0.35 E+01
32	5.7 MI ENE - FT FISHER AFB HOUSING	1.10 ± 0.36 E+01
33	4.0 MI E - FERRY SLIP IN NEW HANOVER CO	1.19 ± 0.39 E+01
34	5.5 MI ENE - FT FISHER MUSEUM	8.70 ± 3.80 E+00
35	7.5 MI SSE - BALD HEAD ISLAND	8.50 ± 3.60 E+00
36	9.3 MI NE - CAROLINA BEACH	1.11 ± 0.37 E+01
37	5.5 MI NW - BOILING SPRINGS LAKES	1.00 ± 0.40 E+01
38	11.0 MI W - SUNSET HARBOR	7.60 ± 3.60 E+00
39	5.3 MI SW - YAUPON BEACH CITY HALL	8.40 ± 3.70 E+00
40	6.9 MI WSW - LONG BEACH CITY HALL	9.90 ± 3.50 E+00
75	4.5 MI S - FT CASWELL BAPTIST ASSEMBLY	1.12 ± 0.37 E+01
76	4.8 MI SSW - CASWELL BEACH	1.42 ± 0.36 E+01
77	5.3 MI SSE - BALDHEAD ISLAND	7.60 ± 3.50 E+00
78	10.0 MI NNE - HWY 133 AT SR 1521	8.30 ± 3.50 E+00
79	9.5 MI N - SR 1539 AT SR 1521	1.30 ± 0.35 E+01
81	10.0 MI WNW - MIDWAY RD AT SR 1508	1.40 ± 0.37 E+01

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

SECOND QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.90 ± 0.90 E+00)
1	1.1 MI E - MOORE ST EXTENSION	1.03 ± 0.22 E+01
2	1.0 MI ESE - MOORE ST EXTENSION	1.02 ± 0.13 E+01
4	1.1 MI SSE - MOORE ST EXTENTION	9.60 ± 1.60 E+00
5	1.1 MI S - LEONARD ST	9.70 ± 1.20 E+00
6	1.0 MI S - BEMCO POWER LINE	8.80 ± 1.00 E+00
7	1.0 MI SW - HWY 87 AT RIGHT-OF-WAY	1.05 ± 0.10 E+01
8	1.2 MI W - HWY 87	9.20 ± 1.30 E+00
9	1.0 MI WNW - BETHEL CHURCH RD	1.00 ± 0.13 E+01
10	0.9 MI NW - BETHEL CHURCH RD	9.20 ± 1.10 E+00
11	0.9 MI NNW - BETHEL CHURCH RD	1.02 ± 0.18 E+01
12	1.0 MI N - BETHEL CHURCH RD	1.06 ± 0.11 E+01
13	1.2 MI NNE - BETHEL CHURCH RD	9.10 ± 1.20 E+00
14	0.5 MI NE - INTAKE CANAL	1.09 ± 0.10 E+01
15	0.9 MI ENE - INTAKE CANAL	1.07 ± 0.09 E+01
16	1.0 MI WSW - DISCHARGE CANAL	1.02 ± 0.12 E+01
17	1.5 MI ESE - PFIZER PROPERTY	9.80 ± 1.00 E+00
18	1.7 MI SE - PFIZER PROPERTY	8.80 ± 1.00 E+00
20	2.0 MI S - MOORE ST	8.90 ± 1.40 E+00
21	2.9 MI SSW - WEST ST AT SEA CAPTAIN	8.90 ± 1.00 E+00
22	5.3 MI SW - CASWELL BEACH RD	9.80 ± 1.00 E+00
23	4.6 MI WSW - NEAR AIRPORT	8.10 ± 0.90 E+00

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

SECOND QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.90 ± 0.90 E+00)
24	3.0 MI W - HWY 211	9.20 ± 0.90 E+00
25	8.7 MI WNW - ANTIOCH BAPTIST CHURCH	1.06 ± 0.11 E+01
26	5.9 MI NW - W BOILING SPRINGS RD	1.05 ± 0.11 E+01
27	5.0 MI NNW - HWY 133	8.70 ± 1.10 E+00
28	4.2 MI NW - AT SOUTH BRUNSWICK HS	9.00 ± 1.10 E+00
30	2.0 MI NE - SUNNY POINT MOT	1.08 ± 0.09 E+01
31	2.6 MI ENE - SUNNY POINT MOT	1.06 ± 0.11 E+01
32	5.7 MI ENE - FT FISHER AFB HOUSING	1.04 ± 0.13 E+01
33	4.0 MI E - FERRY SLIP IN NEW HANOVER CO	9.20 ± 1.20 E+00
34	5.5 MI ENE - FT FISHER MUSEUM	9.70 ± 1.50 E+00
35	7.5 MI SSE - BALD HEAD ISLAND	8.20 ± 0.90 E+00
36	9.3 MI NE - CAROLINA BEACH	9.20 ± 1.20 E+00
37	5.5 MI NW - BOILING SPRINGS LAKES	8.60 ± 1.10 E+00
38	11.0 MI W - SUNSET HARBOR	8.20 ± 1.00 E+00
39	5.3 MI SW - YAUPON BEACH CITY HALL	9.50 ± 1.60 E+00
40	6.9 MI WSW - LONG BEACH CITY HALL	9.20 ± 0.90 E+00
75	4.5 MI S - FT CASWELL BAPTIST ASSEMBLY	1.11 ± 0.12 E+01
76	4.8 MI SSW - CASWELL BEACH	1.05 ± 0.13 E+01
77	5.3 MI SSE - BALDHEAD ISLAND	8.30 ± 1.70 E+00
78	10.0 MI NNE - HWY 133 AT SR 1521	9.20 ± 1.10 E+00
79	9.5 MI N - SR 1539 AT SR 1521	9.50 ± 1.00 E+00

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

SECOND QUARTER, 1995

STATION		MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.90 ± 0.90 E+00)
81	10.0 MI WNW - MIDWAY RD AT SR 1508	9.90 ± 0.90 E+00

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AC-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	299.5	< 3.61E-02	(< 4.80E-02)
07/10/95	301.0	< 3.43E-02	(< 3.82E-02)
07/17/95	300.6	< 3.56E-02	(< 2.55E-02)
07/24/95	302.3	< 2.95E-02	(< 3.85E-02)
07/31/95	300.2	< 3.35E-02	(< 3.97E-02)
08/07/95	302.9	< 3.80E-02	(< 3.13E-02)
08/21/95	116.8	< 6.46E-02	(< 3.36E-02)
08/28/95	287.1	< 3.64E-02	(< 3.46E-02)
09/04/95	283.5	< 3.27E-02	(NOT ANALYZED)
09/11/95	287.4	< 3.15E-02	(< 4.00E-02)
09/18/95	285.3	< 3.10E-02	(< 4.18E-02)
09/25/95	283.1	< 3.55E-02	(< 2.51E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI NE - PMAC (AC-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	271.0	< 2.78E-02	(< 4.80E-02)
07/10/95	267.9	< 2.77E-02	(< 3.82E-02)
07/17/95	265.3	< 3.19E-02	(< 2.55E-02)
07/24/95	261.4	< 3.10E-02	(< 3.85E-02)
07/31/95	260.4	< 2.81E-02	(< 3.97E-02)
08/07/95	262.1	< 2.63E-02	(< 3.13E-02)
08/14/95	284.7	< 3.69E-02	(< 3.75E-02)
08/21/95	286.1	< 2.87E-02	(< 3.36E-02)
08/28/95	292.2	< 2.94E-02	(< 3.46E-02)
09/04/95	280.6	< 3.13E-02	(NOT ANALYZED)
09/11/95	285.0	< 3.72E-02	(< 4.00E-02)
09/18/95	283.4	< 3.34E-02	(< 4.18E-02)
09/25/95	279.7	< 2.98E-02	(< 2.51E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AC-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	274.7	< 5.01E-02	(< 4.80E-02)
07/10/95	275.8	< 3.44E-02	(< 3.82E-02)
07/17/95	275.6	< 4.01E-02	(< 2.55E-02)
07/24/95	275.6	< 4.33E-02	(< 3.85E-02)
07/31/95	273.9	< 2.88E-02	(< 3.97E-02)
08/07/95	278.6	< 3.87E-02	(< 3.13E-02)
08/14/95	281.0	< 3.44E-02	(< 3.75E-02)
08/21/95	287.0	< 2.99E-02	(< 3.36E-02)
08/28/95	291.0	< 3.17E-02	(< 3.46E-02)
09/04/95	288.2	< 2.76E-02	(NOT ANALYZED)
09/11/95	294.3	< 3.99E-02	(< 4.00E-02)
09/18/95	291.8	< 2.94E-02	(< 4.18E-02)
09/25/95	288.9	< 4.33E-02	(< 2.51E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AC-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	286.2	< 4.25E-02	(< 4.80E-02)
07/10/95	287.6	< 4.21E-02	(< 3.82E-02)
07/17/95	231.0	< 4.53E-02	(< 2.55E-02)
07/24/95	266.9	< 3.52E-02	(< 3.85E-02)
07/31/95	270.9	< 4.77E-02	(< 3.97E-02)
08/07/95	274.2	< 3.76E-02	(< 3.13E-02)
08/14/95	280.5	< 4.05E-02	(< 3.75E-02)
08/21/95	282.9	< 4.70E-02	(< 3.36E-02)
08/28/95	283.4	< 3.29E-02	(< 3.46E-02)
09/04/95	279.3	< 3.46E-02	(NOT ANALYZED)
09/11/95	283.4	< 2.67E-02	(< 4.00E-02)
09/18/95	281.6	< 4.28E-02	(< 4.18E-02)
09/25/95	278.0	< 3.77E-02	(< 2.51E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AC-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
07/03/95	278.1	(< 4.80E-02)
07/10/95	279.7	(< 3.82E-02)
07/17/95	279.6	(< 2.55E-02)
07/24/95	279.0	(< 3.85E-02)
07/31/95	277.6	(< 3.97E-02)
08/07/95	284.0	(< 3.13E-02)
08/14/95	282.3	(< 3.75E-02)
08/21/95	288.2	(< 3.36E-02)
08/28/95	289.6	(< 3.46E-02)
09/04/95	.	(NOT ANALYZED)
09/11/95	277.3	(< 4.00E-02)
09/18/95	281.0	(< 4.18E-02)
09/25/95	279.1	(< 2.51E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI SSE - SPOIL POND (AC-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	297.4	< 3.68E-02	(< 4.80E-02)
07/10/95	299.2	< 1.98E-02	(< 3.82E-02)
07/17/95	299.6	< 2.62E-02	(< 2.55E-02)
07/24/95	298.9	< 4.48E-02	(< 3.85E-02)
07/31/95	296.6	< 2.70E-02	(< 3.97E-02)
08/07/95	303.3	< 3.61E-02	(< 3.13E-02)
08/14/95	280.6	< 3.97E-02	(< 3.75E-02)
08/21/95	284.2	< 2.90E-02	(< 3.36E-02)
08/28/95	284.6	< 3.57E-02	(< 3.46E-02)
09/04/95	282.4	< 2.92E-02	(NOT ANALYZED)
09/11/95	284.7	< 3.64E-02	(< 4.00E-02)
09/18/95	282.9	< 2.93E-02	(< 4.18E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AC-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	286.1	< 3.75E-02	(< 3.63E-02)
10/09/95	283.9	< 4.12E-02	(< 3.42E-02)
10/16/95	286.8	< 3.36E-02	(< 3.85E-02)
10/23/95	284.5	< 4.15E-02	(< 3.73E-02)
10/30/95	289.1	< 3.59E-02	(< 3.69E-02)
11/06/95	278.1	< 2.42E-02	(< 3.68E-02)
11/13/95	273.5	< 4.50E-02	(< 3.63E-02)
11/20/95	278.6	< 3.32E-02	(< 2.91E-02)
11/27/95	281.4	< 4.05E-02	(< 3.94E-02)
12/04/95	281.5	< 3.44E-02	(< 4.97E-02)
12/11/95	279.0	< 4.18E-02	(< 4.08E-02)
12/18/95	294.5	< 3.56E-02	(< 3.27E-02)
12/25/95	260.7	< 3.27E-02	(< 3.42E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI NE - PMAC (AC-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	281.2	< 3.12E-02	(< 3.63E-02)
10/09/95	281.0	< 5.29E-02	(< 3.42E-02)
10/16/95	282.1	< 2.07E-02	(< 3.85E-02)
10/23/95	277.3	< 3.54E-02	(< 3.73E-02)
10/30/95	282.8	< 3.03E-02	(< 3.69E-02)
11/06/95	273.8	< 3.47E-02	(< 3.68E-02)
11/13/95	273.8	< 3.43E-02	(< 3.63E-02)
11/20/95	275.3	< 3.14E-02	(< 2.91E-02)
11/27/95	270.9	< 3.38E-02	(< 3.94E-02)
12/04/95	272.6	< 2.72E-02	(< 4.97E-02)
12/11/95	271.2	< 4.50E-02	(< 4.08E-02)
12/18/95	281.3	< 3.89E-02	(< 3.27E-02)
12/25/95	256.8	< 3.56E-02	(< 3.42E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AC-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	291.3	< 4.54E-02	(< 3.63E-02)
10/09/95	290.7	< 3.24E-02	(< 3.42E-02)
10/16/95	293.5	< 4.19E-02	(< 3.85E-02)
10/23/95	289.0	< 3.00E-02	(< 3.73E-02)
10/30/95	294.0	< 3.40E-02	(< 3.69E-02)
11/06/95	285.1	< 4.12E-02	(< 3.68E-02)
11/13/95	286.8	< 2.49E-02	(< 3.63E-02)
11/20/95	283.4	< 2.99E-02	(< 2.91E-02)
11/27/95	285.9	< 2.82E-02	(< 3.94E-02)
12/04/95	286.7	< 3.49E-02	(< 4.97E-02)
12/11/95	286.1	< 4.62E-02	(< 4.08E-02)
12/18/95	312.1	< 3.74E-02	(< 3.27E-02)
12/25/95	281.9	< 2.91E-02	(< 3.42E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AC-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	279.3	< 3.60E-02	(< 3.63E-02)
10/09/95	279.4	< 4.99E-02	(< 3.42E-02)
10/16/95	281.1	< 2.89E-02	(< 3.85E-02)
10/23/95	274.6	< 3.02E-02	(< 3.73E-02)
10/30/95	281.8	< 4.01E-02	(< 3.69E-02)
11/06/95	271.4	< 3.23E-02	(< 3.68E-02)
11/13/95	272.5	< 4.09E-02	(< 3.63E-02)
11/20/95	268.7	< 3.62E-02	(< 2.91E-02)
11/27/95	270.8	< 3.92E-02	(< 3.94E-02)
12/04/95	272.0	< 4.58E-02	(< 4.97E-02)
12/11/95	269.8	< 3.01E-02	(< 4.08E-02)
12/18/95	286.1	< 3.07E-02	(< 3.27E-02)
12/25/95	254.7	< 4.63E-02	(< 3.42E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AC-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
10/02/95	280.7	(< 3.63E-02)
10/09/95	277.1	(< 3.42E-02)
10/16/95	281.7	(< 3.85E-02)
10/23/95	277.6	(< 3.73E-02)
10/30/95	282.5	(< 3.69E-02)
11/06/95	273.9	(< 3.68E-02)
11/13/95	276.8	(< 3.63E-02)
11/20/95	275.1	(< 2.91E-02)
11/27/95	275.2	(< 3.94E-02)
12/04/95	275.1	(< 4.97E-02)
12/11/95	222.4	(< 4.08E-02)
12/18/95	284.3	(< 3.27E-02)
12/25/95	259.6	(< 3.42E-02)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI SSE - SPOIL POND (AC-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	282.5	< 3.60E-02	(< 3.63E-02)
10/09/95	282.7	< 3.13E-02	(< 3.42E-02)
10/23/95	286.0	< 2.96E-02	(< 3.73E-02)
10/30/95	291.0	< 2.88E-02	(< 3.69E-02)
11/06/95	284.1	< 3.70E-02	(< 3.68E-02)
11/13/95	285.0	< 2.51E-02	(< 3.63E-02)
11/20/95	282.0	< 3.55E-02	(< 2.91E-02)
11/27/95	283.6	< 2.68E-02	(< 3.94E-02)
12/04/95	284.3	< 3.26E-02	(< 4.97E-02)
12/11/95	281.3	< 3.04E-02	(< 4.08E-02)
12/18/95	296.0	< 3.74E-02	(< 3.27E-02)
12/25/95	267.1	< 4.00E-02	(< 3.42E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	299.5	1.29 ± 0.28 E-02	(1.17 ± 0.29 E-02)
07/10/95	301.0	1.57 ± 0.30 E-02	(1.62 ± 0.31 E-02)
07/17/95	300.6	1.68 ± 0.29 E-02	(1.68 ± 0.31 E-02)
07/24/95	302.3	1.41 ± 0.28 E-02	(1.45 ± 0.30 E-02)
07/31/95	300.2	1.21 ± 0.27 E-02	(1.49 ± 0.30 E-02)
08/07/95	302.9	1.33 ± 0.28 E-02	(1.57 ± 0.31 E-02)
08/21/95	116.8	2.10 ± 0.62 E-02	(2.28 ± 0.33 E-02)
08/28/95	287.1	9.02 ± 2.69 E-03	(7.58 ± 2.58 E-03)
09/04/95	283.5	1.89 ± 0.33 E-02	(NOT ANALYZED)
09/11/95	287.4	1.53 ± 0.30 E-02	(1.50 ± 0.30 E-02)
09/18/95	285.3	1.53 ± 0.29 E-02	(1.89 ± 0.31 E-02)
09/25/95	283.1	1.34 ± 0.29 E-02	(1.61 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI NE - PMAC (AP-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	271.0	1.12 ± 0.29 E-02	(1.17 ± 0.29 E-02)
07/10/95	267.9	1.88 ± 0.34 E-02	(1.62 ± 0.31 E-02)
07/17/95	265.3	1.74 ± 0.32 E-02	(1.68 ± 0.31 E-02)
07/24/95	261.4	1.49 ± 0.32 E-02	(1.45 ± 0.30 E-02)
07/31/95	260.4	1.34 ± 0.31 E-02	(1.49 ± 0.30 E-02)
08/07/95	262.1	2.00 ± 0.35 E-02	(1.57 ± 0.31 E-02)
08/14/95	284.7	1.42 ± 0.29 E-02	(1.36 ± [illegible] E-02)
08/21/95	286.1	2.23 ± 0.33 E-02	(2.28 ± 0.33 E-02)
08/28/95	292.2	1.32 ± 0.29 E-02	(7.58 ± 2.58 E-03)
09/04/95	280.6	2.14 ± 0.35 E-02	(NOT ANALYZED)
09/11/95	285.0	1.55 ± 0.30 E-02	(1.50 ± 0.30 E-02)
09/18/95	283.4	1.57 ± 0.29 E-02	(1.89 ± 0.31 E-02)
09/25/95	279.7	1.57 ± 0.31 E-02	(1.61 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	274.7	1.09 ± 0.29 E-02	(1.17 ± 0.29 E-02)
07/10/95	275.8	1.47 ± 0.31 E-02	(1.62 ± 0.31 E-02)
07/17/95	275.6	1.73 ± 0.32 E-02	(1.68 ± 0.31 E-02)
07/24/95	275.6	1.41 ± 0.30 E-02	(1.45 ± 0.30 E-02)
07/31/95	273.9	1.24 ± 0.29 E-02	(1.49 ± 0.30 E-02)
08/07/95	278.6	1.67 ± 0.32 E-02	(1.57 ± 0.31 E-02)
08/14/95	281.0	1.47 ± 0.30 E-02	(1.36 ± 0.29 E-02)
08/21/95	287.0	2.09 ± 0.32 E-02	(2.28 ± 0.33 E-02)
08/28/95	291.0	1.16 ± 0.28 E-02	(7.58 ± 2.58 E-03)
09/04/95	288.2	2.51 ± 0.36 E-02	(NOT ANALYZED)
09/11/95	294.3	1.62 ± 0.30 E-02	(1.50 ± 0.30 E-02)
09/18/95	291.8	1.74 ± 0.30 E-02	(1.89 ± 0.31 E-02)
09/25/95	288.9	1.60 ± 0.30 E-02	(1.61 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	286.2	1.12 ± 0.28 E-02	(1.17 ± 0.29 E-02)
07/10/95	287.6	1.92 ± 0.32 E-02	(1.62 ± 0.31 E-02)
07/17/95	231.0	1.65 ± 0.35 E-02	(1.68 ± 0.31 E-02)
07/24/95	266.9	1.51 ± 0.32 E-02	(1.45 ± 0.30 E-02)
07/31/95	270.9	1.45 ± 0.31 E-02	(1.49 ± 0.30 E-02)
08/07/95	274.2	1.74 ± 0.32 E-02	(1.57 ± 0.31 E-02)
08/14/95	280.5	1.35 ± 0.29 E-02	(1.36 ± 0.29 E-02)
08/21/95	282.9	2.33 ± 0.34 E-02	(2.28 ± 0.33 E-02)
08/28/95	283.4	9.31 ± 2.73 E-03	(7.58 ± 2.58 E-03)
09/04/95	279.3	2.41 ± 0.36 E-02	(NOT ANALYZED)
09/11/95	283.4	1.50 ± 0.30 E-02	(1.50 ± 0.30 E-02)
09/18/95	281.6	1.71 ± 0.30 E-02	(1.89 ± 0.31 E-02)
09/25/95	278.0	1.20 ± 0.29 E-02	(1.61 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
07/03/95	278.1	(1.17 ± 0.29 E-02)
07/10/95	279.7	(1.62 ± 0.31 E-02)
07/17/95	279.6	(1.68 ± 0.31 E-02)
07/24/95	279.0	(1.45 ± 0.30 E-02)
07/31/95	277.6	(1.49 ± 0.30 E-02)
08/07/95	284.0	(1.57 ± 0.31 E-02)
08/14/95	282.3	(1.36 ± 0.29 E-02)
08/21/95	288.2	(2.28 ± 0.33 E-02)
08/28/95	289.6	(7.58 ± 2.58 E-03)
09/04/95	.	(NOT ANALYZED)
09/11/95	277.3	(1.50 ± 0.30 E-02)
09/18/95	281.0	(1.89 ± 0.31 E-02)
09/25/95	279.1	(1.61 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
07/03/95	297.4	1.39 ± 0.29 E-02	(1.17 ± 0.29 E-02)
07/10/95	299.2	1.66 ± 0.30 E-02	(1.62 ± 0.31 E-02)
07/17/95	299.6	1.47 ± 0.28 E-02	(1.68 ± 0.31 E-02)
07/24/95	298.9	1.33 ± 0.28 E-02	(1.45 ± 0.30 E-02)
07/31/95	296.6	9.86 ± 2.59 E-03	(1.49 ± 0.30 E-02)
08/07/95	303.3	1.85 ± 0.31 E-02	(1.57 ± 0.31 E-02)
08/14/95	280.6	1.39 ± 0.29 E-02	(1.36 ± 0.29 E-02)
08/21/95	284.2	2.18 ± 0.33 E-02	(2.28 ± 0.33 E-02)
08/28/95	284.6	9.10 ± 2.71 E-03	(7.58 ± 2.58 E-03)
09/04/95	282.4	2.07 ± 0.34 E-02	(NOT ANALYZED)
09/11/95	284.7	1.59 ± 0.30 E-02	(1.50 ± 0.30 E-02)
09/18/95	282.9	1.97 ± 0.32 E-02	(1.89 ± 0.31 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	286.1	2.40 ± 0.35 E-02	(2.40 ± 0.35 E-02)
10/09/95	283.9	1.17 ± 0.30 E-02	(1.12 ± 0.30 E-02)
10/16/95	286.8	1.23 ± 0.30 E-02	(1.47 ± 0.31 E-02)
10/23/95	284.5	1.48 ± 0.31 E-02	(1.85 ± 0.34 E-02)
10/30/95	289.1	2.16 ± 0.34 E-02	(2.06 ± 0.34 E-02)
11/06/95	278.1	1.63 ± 0.32 E-02	(1.87 ± 0.34 E-02)
11/13/95	273.5	1.75 ± 0.33 E-02	(2.34 ± 0.36 E-02)
11/20/95	278.6	1.95 ± 0.33 E-02	(2.54 ± 0.36 E-02)
11/27/95	281.4	2.52 ± 0.36 E-02	(2.98 ± 0.38 E-02)
12/04/95	281.5	1.88 ± 0.32 E-02	(1.85 ± 0.33 E-02)
12/11/95	279.0	1.90 ± 0.32 E-02	(2.34 ± 0.40 E-02)
12/18/95	294.5	2.16 ± 0.32 E-02	(3.11 ± 0.37 E-02)
12/25/95	260.7	1.73 ± 0.32 E-02	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI NE - PMAC (AP-201)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	281.2	2.71 ± 0.37 E-02	(2.40 ± 0.35 E-02)
10/09/95	281.0	1.13 ± 0.30 E-02	(1.12 ± 0.30 E-02)
10/16/95	282.1	1.35 ± 0.31 E-02	(1.47 ± 0.31 E-02)
10/23/95	277.3	1.69 ± 0.33 E-02	(1.85 ± 0.34 E-02)
10/30/95	282.8	1.94 ± 0.33 E-02	(2.06 ± 0.34 E-02)
11/06/95	273.8	2.13 ± 0.35 E-02	(1.87 ± 0.34 E-02)
11/13/95	273.8	2.36 ± 0.36 E-02	(2.34 ± 0.36 E-02)
11/20/95	275.3	2.50 ± 0.36 E-02	(2.54 ± 0.36 E-02)
11/27/95	270.9	2.37 ± 0.36 E-02	(2.98 ± 0.38 E-02)
12/04/95	272.6	2.31 ± 0.35 E-02	(1.85 ± 0.33 E-02)
12/11/95	271.2	2.00 ± 0.33 E-02	(2.34 ± 0.40 E-02)
12/18/95	281.3	2.68 ± 0.36 E-02	(3.11 ± 0.37 E-02)
12/25/95	256.8	1.60 ± 0.32 E-02	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	291.3	2.56 ± 0.35 E-02	(2.40 ± 0.35 E-02)
10/09/95	290.7	1.10 ± 0.29 E-02	(1.12 ± 0.30 E-02)
10/16/95	293.5	1.48 ± 0.30 E-02	(1.47 ± 0.31 E-02)
10/23/95	289.0	1.46 ± 0.31 E-02	(1.85 ± 0.34 E-02)
10/30/95	294.0	2.14 ± 0.34 E-02	(2.06 ± 0.34 E-02)
11/06/95	285.1	1.77 ± 0.32 E-02	(1.87 ± 0.34 E-02)
11/13/95	286.8	2.02 ± 0.33 E-02	(2.34 ± 0.36 E-02)
11/20/95	283.4	2.54 ± 0.35 E-02	(2.54 ± 0.36 E-02)
11/27/95	285.9	3.36 ± 0.39 E-02	(2.98 ± 0.38 E-02)
12/04/95	286.7	2.07 ± 0.33 E-02	(1.85 ± 0.33 E-02)
12/11/95	286.1	2.24 ± 0.33 E-02	(2.34 ± 0.40 E-02)
12/18/95	312.1	2.16 ± 0.31 E-02	(2.11 ± 0.37 E-02)
12/25/95	281.9	1.54 ± 0.30 E-02	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	279.3	2.59 ± 0.36 E-02	(2.40 ± 0.35 E-02)
10/09/95	279.4	1.17 ± 0.31 E-02	(1.12 ± 0.30 E-02)
10/16/95	281.1	1.30 ± 0.30 E-02	(1.47 ± 0.31 E-02)
10/23/95	274.6	1.90 ± 0.34 E-02	(1.85 ± 0.34 E-02)
10/30/95	281.8	2.02 ± 0.34 E-02	(2.06 ± 0.34 E-02)
11/06/95	271.4	1.96 ± 0.34 E-02	(1.87 ± 0.34 E-02)
11/13/95	272.5	2.32 ± 0.36 E-02	(2.34 ± 0.36 E-02)
11/20/95	268.7	2.55 ± 0.36 E-02	(2.54 ± 0.36 E-02)
11/27/95	270.8	3.15 ± 0.39 E-02	(2.98 ± 0.38 E-02)
12/04/95	272.0	2.37 ± 0.36 E-02	(1.85 ± 0.33 E-02)
12/11/95	269.8	2.47 ± 0.36 E-02	(2.34 ± 0.40 E-02)
12/18/95	286.1	2.38 ± 0.34 E-02	(3.11 ± 0.37 E-02)
12/25/95	254.7	1.88 ± 0.34 E-02	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)

DATE COLLECTED	CUBIC METERS	CONTROL ACTIVITY
10/02/95	280.7	(2.40 ± 0.35 E-02)
10/09/95	277.1	(1.12 ± 0.30 E-02)
10/16/95	281.7	(1.47 ± 0.31 E-02)
10/23/95	277.6	(1.85 ± 0.34 E-02)
10/30/95	282.5	(2.06 ± 0.34 E-02)
11/06/95	273.9	(1.87 ± 0.34 E-02)
11/13/95	276.8	(2.34 ± 0.36 E-02)
11/20/95	275.1	(2.54 ± 0.36 E-02)
11/27/95	275.2	(2.98 ± 0.38 E-02)
12/04/95	275.1	(1.85 ± 0.33 E-02)
12/11/95	222.4	(2.34 ± 0.40 E-02)
12/18/95	284.3	(3.11 ± 0.37 E-02)
12/25/95	259.6	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)

DATE COLLECTED	CUBIC METERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
10/02/95	282.5	2.58 ± 0.36 E-02	(2.40 ± 0.35 E-02)
10/09/95	282.7	1.54 ± 0.32 E-02	(1.12 ± 0.30 E-02)
10/23/95	286.0	1.75 ± 0.33 E-02	(1.85 ± 0.34 E-02)
10/30/95	291.0	1.98 ± 0.33 E-02	(2.06 ± 0.34 E-02)
11/06/95	284.1	1.69 ± 0.32 E-02	(1.87 ± 0.34 E-02)
11/13/95	285.0	1.80 ± 0.33 E-02	(2.34 ± 0.36 E-02)
11/20/95	282.0	1.97 ± 0.32 E-02	(2.54 ± 0.36 E-02)
11/27/95	283.6	2.35 ± 0.35 E-02	(2.98 ± 0.38 E-02)
12/04/95	284.3	1.86 ± 0.32 E-02	(1.85 ± 0.33 E-02)
12/11/95	281.3	2.57 ± 0.35 E-02	(2.34 ± 0.40 E-02)
12/18/95	296.0	2.48 ± 0.34 E-02	(3.11 ± 0.37 E-02)
12/25/95	267.1	1.39 ± 0.31 E-02	(1.85 ± 0.33 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 M SW - VISITOR'S CENTER (AP-200)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3639.8 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.24 ± 0.31 E-01	(1.20 ± 0.21 E-01)
PB-214	3.37 ± 2.86 E-03	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI NE - PMAC (AP-201)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3421.3 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.24 ± 0.26 E-01	(1.20 ± 0.21 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3585.9 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.37 ± 0.29 E-01	(1.20 ± 0.21 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3676.2 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.02 ± 0.24 E-01	(1.20 ± 0.21 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3579.8 CUBIC METERS

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.20 ± 0.21 E-01)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

THIRD QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3389.6 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.20 ± 0.21 E-01	(1.20 ± 0.21 E-01)
PB-214	5.86 ± 2.24 E-03	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI SW - VISITOR'S CENTER (AP-200)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3657.7 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.28 ± 0.21 E-01	(LESS THAN LLD)
K-40	LESS THAN LLD	(6.96 ± 2.48 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI NE - PMAC (AP-201)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3580.1 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.16 ± 0.24 E-01	(LESS THAN LLD)
K-40	LESS THAN LLD	(6.96 ± 2.48 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

1.0 MI S - SUBSTATION ON CONSTRUCTION RD (AP-202)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3776.5 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.25 ± 0.23 E-01	(LESS THAN LLD)
K-40	LESS THAN LLD	(6.96 ± 2.48 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

2.3 MI SSW - SOUTHPORT SUBSTATION (AP-203)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3562.2 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	5.51 ± 2.50 E-02	(6.96 ± 2.48 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

23.0 MI NNE - SUTTON PLANT (CONTROL) (AP-204)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3542 CUBIC METERS

ISOTOPE	CONTROL ACTIVITY
K-40	(6.96 ± 2.48 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

FOURTH QUARTER, 1995

0.6 MI SSE - SPOIL POND (AP-205)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY VOLUME: 3442.8 CUBIC METERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	9.80 ± 2.66 E-02	(6.96 ± 2.48 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 07/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 316.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.15 ± 0.36 E+00	(7.18 ± 2.18 E-01)
K-40	2.15 ± 0.50 E+00	(2.93 ± 0.61 E+00)
I-131	< 4.94E-02	(< 4.24E-02)
CS-134	< 4.10E-02	(< 3.18E-02)
CS-137	< 3.58E-02	(< 2.66E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 07/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 346.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.58 ± 2.66 E-01	(7.18 ± 2.18 E-01)
K-40	3.78 ± 0.62 E+00	(2.93 ± 0.61 E+00)
I-131	< 4.52E-02	(< 4.24E-02)
CS-134	< 4.22E-02	(< 3.18E-02)
CS-137	< 3.47E-02	(< 2.66E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 07/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 398 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(7.18 ± 2.18 E-01)
K-40	(2.93 ± 0.61 E+00)
I-131	(< 4.24E-02)
CS-134	(< 3.18E-02)
CS-137	(< 2.66E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 07/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 435.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	7.24 ± 2.21 E-01	(7.18 ± 2.18 E-01)
K-40	2.66 ± 0.65 E+00	(2.93 ± 0.61 E+00)
I-131	< 4.04E-02	(< 4.24E-02)
CS-134	< 3.31E-02	(< 3.18E-02)
CS-137	< 2.88E-02	(< 2.66E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 07/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 407.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	7.15 ± 3.02 E-01	(LESS THAN LLD)
K-40	3.10 ± 0.56 E+00	(3.95 ± 0.61 E+00)
I-131	< 4.91E-02	(< 5.84E-02)
CS-134	< 4.21E-02	(< 4.70E-02)
CS-137	< 3.38E-02	(< 4.50E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 07/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 316 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	8.12 ± 2.66 E-01	(LESS THAN LLD)
K-40	1.51 ± 0.68 E+00	(3.95 ± 0.61 E+00)
I-131	< 4.79E-02	(< 5.84E-02)
CS-134	< 4.59E-02	(< 4.70E-02)
CS-137	< 3.83E-02	(< 4.50E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 07/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 300 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.95 ± 0.61 E+00)
I-131	(< 5.84E-02)
CS-134	(< 4.70E-02)
CS-137	(< 4.50E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 07/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 459 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.00 ± 0.42 E+00	(3.95 ± 0.61 E+00)
I-131	< 3.35E-02	(< 5.84E-02)
CS-134	< 2.74E-02	(< 4.70E-02)
CS-137	< 2.50E-02	(< 4.50E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 07/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 427.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.89 ± 0.31 E+00)
K-40	3.27 ± 0.43 E+00	(2.26 ± 0.53 E+00)
I-131	< 3.84E-02	(< 4.07E-02)
CS-134	< 2.96E-02	(< 3.44E-02)
CS-137	< 3.11E-02	(< 3.36E-02)
PB-214	LESS THAN LLD	(1.10 ± 0.56 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 07/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 417.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.92 ± 0.30 E+00	(1.89 ± 0.31 E+00)
K-40	2.67 ± 0.52 E+00	(2.26 ± 0.53 E+00)
I-131	< 3.50E-02	(< 4.07E-02)
CS-134	< 2.57E-02	(< 3.44E-02)
CS-137	< 2.89E-02	(< 3.36E-02)
PB-214	LESS THAN LLD	(1.10 ± 0.56 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 07/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 408.7 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.89 ± 0.31 E+00)
K-40	(2.26 ± 0.53 E+00)
I-131	(< 4.07E-02)
CS-134	(< 3.44E-02)
CS-137	(< 3.36E-02)
PB-214	(1.10 ± 0.56 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

JULY, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 07/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 324 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
TL-208	2.97 ± 2.67 E-02	(LESS THAN LLD)
BE-7	LESS THAN LLD	(1.89 ± 0.31 E+00)
K-40	4.69 ± 0.64 E+00	(2.26 ± 0.53 E+00)
I-131	< 5.58E-02	(< 4.07E-02)
CS-134	< 4.28E-02	(< 3.44E-02)
CS-137	< 3.96E-02	(< 3.36E-02)
PB-214	LESS THAN LLD	(1.10 ± 0.56 E-01)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 08/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 457.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.03 ± 0.21 E+00	(8.49 ± 1.69 E-01)
K-40	2.98 ± 0.48 E+00	(3.01 ± 0.45 E+00)
I-131	< 2.61E-02	(< 2.06E-02)
CS-134	< 3.00E-02	(< 2.63E-02)
CS-137	< 2.91E-02	(< 2.17E-02)
TL-208	LESS THAN LLD	(1.86 ± 1.59 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 08/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 458.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.47 ± 0.22 E+00	(8.49 ± 1.69 E-01)
K-40	2.43 ± 0.49 E+00	(3.01 ± 0.45 E+00)
I-131	< 2.34E-02	(< 2.06E-02)
CS-134	< 2.87E-02	(< 2.63E-02)
CS-137	< 2.82E-02	(< 2.17E-02)
TL-208	LESS THAN LLD	(1.86 ± 1.59 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 08/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 579.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(8.49 ± 1.69 E-01)
K-40	(3.01 ± 0.45 E+00)
I-131	(< 2.06E-02)
CS-134	(< 2.63E-02)
CS-137	(< 2.17E-02)
TL-208	(1.86 ± 1.59 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 08/01/95)

CHERRY

GAMMA SPECTROMETRY MASS: 497.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	4.73 ± 1.70 E-01	(8.49 ± 1.69 E-01)
K-40	3.12 ± 0.46 E+00	(3.01 ± 0.45 E+00)
I-131	< 2.26E-02	(< 2.06E-02)
CS-134	< 2.90E-02	(< 2.63E-02)
CS-137	< 2.82E-02	(< 2.17E-02)
TL-208	LESS THAN LLD	(1.86 ± 1.59 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 08/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 423.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.68 ± 2.17 E-01	(7.31 ± 1.52 E-01)
K-40	1.95 ± 0.42 E+00	(2.05 ± 0.37 E+00)
I-131	< 2.74E-02	(< 2.09E-02)
CS-134	< 3.15E-02	(< 2.37E-02)
CS-137	< 2.74E-02	(< 2.22E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 08/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 465.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(7.31 ± 1.52 E-01)
K-40	2.87 ± 0.43 E+00	(2.05 ± 0.37 E+00)
I-131	< 2.77E-02	(< 2.09E-02)
CS-134	< 3.38E-02	(< 2.37E-02)
CS-137	< 2.56E-02	(< 2.22E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 08/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 578.6 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(7.31 ± 1.52 E-01)
K-40	(2.05 ± 0.37 E+00)
I-131	(< 2.09E-02)
CS-134	(< 2.37E-02)
CS-137	(< 2.22E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 08/01/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 485.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.29 ± 0.21 E+00	(7.31 ± 1.52 E-01)
K-40	2.66 ± 0.43 E+00	(2.05 ± 0.37 E+00)
I-131	< 2.65E-02	(< 2.09E-02)
CS-134	< 2.42E-02	(< 2.37E-02)
CS-137	< 2.73E-02	(< 2.22E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 08/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 470.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.04 ± 0.39 E+00	(LESS THAN LLD)
K-40	2.58 ± 0.54 E+00	(3.43 ± 0.48 E+00)
I-131	< 3.54E-02	(< 2.81E-02)
CS-134	< 3.66E-02	(< 3.14E-02)
CS-137	< 3.47E-02	(< 2.57E-02)
PB-212	LESS THAN LLD	(7.03 ± 5.41 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 08/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 460.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	7.74 ± 1.83 E-01	(LESS THAN LLD)
K-40	3.48 ± 0.55 E+00	(3.43 ± 0.48 E+00)
I-131	< 3.46E-02	(< 2.81E-02)
CS-134	< 3.64E-02	(< 3.14E-02)
CS-137	< 3.30E-02	(< 2.57E-02)
PB-212	LESS THAN LLD	(7.03 ± 5.41 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 08/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 467.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.43 ± 0.48 E+00)
I-131	(< 2.81E-02)
CS-134	(< 3.14E-02)
CS-137	(< 2.57E-02)
PB-212	(7.03 ± 5.41 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

AUGUST, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 08/01/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 478.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	4.07 ± 0.48 E+00	(3.43 ± 0.48 E+00)
I-131	< 2.68E-02	(< 2.81E-02)
CS-134	< 2.98E-02	(< 3.14E-02)
CS-137	< 2.83E-02	(< 2.57E-02)
PB-212	LESS THAN LLD	(7.03 ± 5.41 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 09/04/95)

CHERRY

GAMMA SPECTROMETRY MASS: 428.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	3.08 ± 2.97 E-01	(8.96 ± 1.79 E-01)
K-40	2.66 ± 0.65 E+00	(2.71 ± 0.45 E+00)
I-131	< 4.22E-02	(< 2.74E-02)
CS-134	< 3.81E-02	(< 2.38E-02)
CS-137	< 3.58E-02	(< 2.65E-02)
PB-214	LESS THAN LLD	(8.15 ± 4.74 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 09/04/95)

CHERRY

GAMMA SPECTROMETRY MASS: 433.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(8.96 ± 1.79 E-01)
K-40	5.57 ± 0.61 E+00	(2.71 ± 0.45 E+00)
I-131	< 3.19E-02	(< 2.74E-02)
CS-134	< 3.10E-02	(< 2.38E-02)
CS-137	< 3.21E-02	(< 2.65E-02)
PB-214	LESS THAN LLD	(8.15 ± 4.74 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 09/04/95)

CHERRY

GAMMA SPECTROMETRY MASS: 526.4 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(8.96 ± 1.79 E-01)
K-40	(2.71 ± 0.45 E+00)
I-131	(< 2.74E-02)
CS-134	(< 2.38E-02)
CS-137	(< 2.65E-02)
PB-214	(8.15 ± 4.74 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 09/04/95)

CHERRY

GAMMA SPECTROMETRY MASS: 560.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.25 ± 1.64 E-01	(8.96 ± 1.79 E-01)
K-40	2.55 ± 0.42 E+00	(2.71 ± 0.45 E+00)
I-131	< 2.47E-02	(< 2.74E-02)
CS-134	< 2.57E-02	(< 2.38E-02)
CS-137	< 2.47E-02	(< 2.65E-02)
PB-214	LESS THAN LLD	(8.15 ± 4.74 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 09/04/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 421 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.17 ± 2.11 E-01	(1.39 ± 0.27 E+00)
K-40	2.29 ± 0.42 E+00	(2.15 ± 0.45 E+00)
I-131	< 2.85E-02	(< 3.17E-02)
CS-134	< 3.17E-02	(< 3.41E-02)
CS-137	< 2.38E-02	(< 2.77E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 09/04/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 412.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	7.11 ± 2.00 E-01	(1.39 ± 0.27 E+00)
K-40	2.06 ± 0.46 E+00	(2.15 ± 0.45 E+00)
I-131	< 3.11E-02	(< 3.17E-02)
CS-134	< 2.69E-02	(< 3.41E-02)
CS-137	< 3.17E-02	(< 2.77E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 09/04/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 566.2 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.39 ± 0.27 E+00)
K-40	(2.15 ± 0.45 E+00)
I-131	(< 3.17E-02)
CS-134	(< 3.41E-02)
CS-137	(< 2.77E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 09/04/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 448.8 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.74 ± 0.33 E+00	(1.39 ± 0.27 E+00)
K-40	2.22 ± 0.53 E+00	(2.15 ± 0.45 E+00)
I-131	< 4.01E-02	(< 3.17E-02)
CS-134	< 3.81E-02	(< 3.41E-02)
CS-137	< 3.70E-02	(< 2.77E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 09/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 367 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.00 ± 0.25 E+00)
K-40	4.41 ± 0.58 E+00	(1.65 ± 0.46 E+00)
I-131	< 3.53E-02	(< 3.09E-02)
CS-134	< 3.89E-02	(< 2.71E-02)
CS-137	< 3.65E-02	(< 2.61E-02)
RA-226	6.32 ± 4.55 E-01	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 09/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 420 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.56 ± 0.27 E+00	(2.00 ± 0.25 E+00)
K-40	2.05 ± 0.54 E+00	(1.65 ± 0.46 E+00)
I-131	< 3.38E-02	(< 3.09E-02)
CS-134	< 3.23E-02	(< 2.71E-02)
CS-137	< 3.01E-02	(< 2.61E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 09/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 460.8 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.00 ± 0.25 E+00)
K-40	(1.65 ± 0.46 E+00)
I-131	(< 3.09E-02)
CS-134	(< 2.71E-02)
CS-137	(< 2.61E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

SEPTEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 09/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 446.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.00 ± 0.25 E+00)
K-40	3.11 ± 0.47 E+00	(1.65 ± 0.46 E+00)
I-131	< 3.11E-02	(< 3.09E-02)
CS-134	< 3.17E-02	(< 2.71E-02)
CS-137	< 3.07E-02	(< 2.61E-02)
RA-226	5.15 ± 4.45 E-01	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 10/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 378.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.49 ± 0.29 E+00	(2.10 ± 0.34 E+00)
K-40	2.67 ± 0.57 E+00	(3.78 ± 0.64 E+00)
I-131	< 3.02E-02	(< 4.09E-02)
CS-134	< 3.60E-02	(< 3.45E-02)
CS-137	< 3.35E-02	(< 3.85E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 10/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 386.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.10 ± 0.34 E+00)
K-40	4.82 ± 0.61 E+00	(3.78 ± 0.64 E+00)
I-131	< 3.67E-02	(< 4.09E-02)
CS-134	< 3.31E-02	(< 3.45E-02)
CS-137	< 3.06E-02	(< 3.85E-02)
TL-208	3.67 ± 3.20 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 10/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 390.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.10 ± 0.34 E+00)
K-40	(3.78 ± 0.64 E+00)
I-131	(< 4.09E-02)
CS-134	(< 3.45E-02)
CS-137	(< 3.85E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 10/02/95)

CHERRY

GAMMA SPECTROMETRY MASS: 399.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	5.55 ± 2.30 E-01	(2.10 ± 0.34 E+00)
K-40	2.01 ± 0.59 E+00	(3.78 ± 0.64 E+00)
I-131	< 3.39E-02	(< 4.09E-02)
CS-134	< 3.40E-02	(< 3.45E-02)
CS-137	< 2.94E-02	(< 3.85E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 10/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 376.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	7.50 ± 2.95 E-01	(2.42 ± 0.25 E+00)
K-40	2.16 ± 0.52 E+00	(1.94 ± 0.45 E+00)
I-131	< 4.71E-02	(< 2.76E-02)
CS-134	< 4.54E-02	(< 2.59E-02)
CS-137	< 4.56E-02	(< 2.64E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 10/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 394.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.14 ± 2.30 E-01	(2.42 ± 0.25 E+00)
K-40	1.59 ± 0.44 E+00	(1.94 ± 0.45 E+00)
I-131	< 3.24E-02	(< 2.76E-02)
CS-134	< 3.32E-02	(< 2.59E-02)
CS-137	< 2.94E-02	(< 2.64E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 10/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 501.6 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.42 ± 0.25 E+00)
K-40	(1.94 ± 0.45 E+00)
I-131	(< 2.76E-02)
CS-134	(< 2.59E-02)
CS-137	(< 2.64E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 10/02/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 597.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.04 ± 0.26 E+00	(2.42 ± 0.25 E+00)
K-40	1.79 ± 0.37 E+00	(1.94 ± 0.45 E+00)
I-131	< 2.01E-02	(< 2.76E-02)
CS-134	< 2.32E-02	(< 2.59E-02)
CS-137	< 2.04E-02	(< 2.64E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 10/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 356.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.46 ± 2.50 E-01	(LESS THAN LLD)
K-40	2.98 ± 0.52 E+00	(3.57 ± 0.55 E+00)
I-131	< 3.88E-02	(< 3.69E-02)
CS-134	< 3.50E-02	(< 3.85E-02)
CS-137	< 3.43E-02	(< 3.39E-02)
BI-214	LESS THAN LLD	(9.29 ± 6.64 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 10/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 475.1 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.15 ± 0.28 E+00	(LESS THAN LLD)
K-40	1.26 ± 0.49 E+00	(3.57 ± 0.55 E+00)
I-131	< 3.20E-02	(< 3.69E-02)
CS-134	< 3.49E-02	(< 3.85E-02)
CS-137	< 3.52E-02	(< 3.39E-02)
BI-214	LESS THAN LLD	(9.29 ± 6.64 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 10/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 393.5 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
K-40	(3.57 ± 0.55 E+00)
I-131	(< 3.69E-02)
CS-134	(< 3.85E-02)
CS-137	(< 3.39E-02)
BI-214	(9.29 ± 6.64 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

OCTOBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 10/02/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 574.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.76 ± 0.43 E+00	(3.57 ± 0.55 E+00)
I-131	< 2.48E-02	(< 3.69E-02)
CS-134	< 2.55E-02	(< 3.85E-02)
CS-137	< 2.49E-02	(< 3.39E-02)
BI-214	LESS THAN LLD	(9.29 ± 6.64 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 11/05/95)

CHERRY

GAMMA SPECTROMETRY MASS: 486.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.28 ± 0.27 E+00	(9.88 ± 2.31 E-01)
K-40	1.94 ± 0.45 E+00	(3.23 ± 0.48 E+00)
I-131	< 3.86E-02	(< 3.20E-02)
CS-134	< 3.43E-02	(< 2.61E-02)
CS-137	< 3.26E-02	(< 3.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 11/05/95)

CHERRY

GAMMA SPECTROMETRY MASS: 450.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	9.69 ± 3.03 E-01	(9.88 ± 2.31 E-01)
K-40	2.34 ± 0.64 E+00	(3.23 ± 0.48 E+00)
I-131	< 4.03E-02	(< 3.20E-02)
CS-134	< 3.71E-02	(< 2.61E-02)
CS-137	< 3.88E-02	(< 3.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 11/05/95)

CHERRY

GAMMA SPECTROMETRY MASS: 469.9 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(9.88 ± 2.31 E-01)
K-40	(3.23 ± 0.48 E+00)
I-131	(< 3.20E-02)
CS-134	(< 2.61E-02)
CS-137	(< 3.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 11/05/95)

CHERRY

GAMMA SPECTROMETRY MASS: 474.3 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(9.88 ± 2.31 E-01)
K-40	4.08 ± 0.49 E+00	(3.23 ± 0.48 E+00)
I-131	< 2.89E-02	(< 3.20E-02)
CS-134	< 3.24E-02	(< 2.61E-02)
CS-137	< 2.75E-02	(< 3.08E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 11/05/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 435.4 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.65 ± 0.24 E+00	(3.21 ± 0.29 E+00)
K-40	1.35 ± 0.48 E+00	(2.87 ± 0.50 E+00)
I-131	< 3.02E-02	(< 2.85E-02)
CS-134	< 2.45E-02	(< 2.88E-02)
CS-137	< 2.56E-02	(< 2.42E-02)
BI-214	4.90 ± 3.52 E-02	(6.41 ± 4.26 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 11/05/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 554.6 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(3.21 ± 0.29 E+00)
K-40	2.01 ± 0.34 E+00	(2.87 ± 0.50 E+00)
I-131	< 2.65E-02	(< 2.85E-02)
CS-134	< 2.52E-02	(< 2.88E-02)
CS-137	< 2.40E-02	(< 2.42E-02)
BI-214	LESS THAN LLD	(6.41 ± 4.26 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 11/05/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 500.5 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(3.21 ± 0.29 E+00)
K-40	(2.87 ± 0.50 E+00)
I-131	(< 2.85E-02)
CS-134	(< 2.88E-02)
CS-137	(< 2.42E-02)
BI-214	(6.41 ± 4.26 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 11/05/95)

SWEETGUM

GAMMA SPECTROMETRY MASS: 500.7 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.66 ± 0.26 E+00	(3.21 ± 0.29 E+00)
K-40	1.88 ± 0.46 E+00	(2.87 ± 0.50 E+00)
I-131	< 3.04E-02	(< 2.85E-02)
CS-134	< 2.70E-02	(< 2.88E-02)
CS-137	< 2.32E-02	(< 2.42E-02)
BI-214	LESS THAN LLD	(6.41 ± 4.26 E-02)
RA-226	4.38 ± 3.54 E-01	(LESS THAN LLD)
TH-234	8.88 ± 6.88 E-01	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 11/05/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 452.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.88 ± 0.40 E+00	(1.53 ± 0.29 E+00)
K-40	2.25 ± 0.62 E+00	(2.31 ± 0.55 E+00)
I-131	< 4.20E-02	(< 4.63E-02)
CS-134	< 3.90E-02	(< 4.35E-02)
CS-137	< 4.19E-02	(< 3.69E-02)
TL-208	LESS THAN LLD	(3.62 ± 2.13 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 11/05/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 445.5 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.65 ± 0.28 E+00	(1.53 ± 0.29 E+00)
K-40	1.62 ± 0.44 E+00	(2.31 ± 0.55 E+00)
I-131	< 2.85E-02	(< 4.63E-02)
CS-134	< 3.31E-02	(< 4.35E-02)
CS-137	< 2.67E-02	(< 3.69E-02)
TL-208	1.41 ± 1.30 E-02	(3.62 ± 2.13 E-02)
PB-214	5.03 ± 4.68 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 11/05/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 447.8 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.53 ± 0.29 E+00)
K-40	(2.31 ± 0.55 E+00)
I-131	(< 4.63E-02)
CS-134	(< 4.35E-02)
CS-137	(< 3.69E-02)
TL-208	(3.62 ± 2.13 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

NOVEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 11/05/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 420.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.30 ± 0.31 E+00	(1.53 ± 0.29 E+00)
K-40	1.84 ± 0.47 E+00	(2.31 ± 0.55 E+00)
I-131	< 3.52E-02	(< 4.63E-02)
CS-134	< 3.49E-02	(< 4.35E-02)
CS-137	< 2.72E-02	(< 3.69E-02)
TL-208	LESS THAN LLD	(3.62 ± 2.13 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 12/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 364 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	2.05 ± 0.32 E+00	(2.00 ± 0.34 E+00)
K-40	1.46 ± 0.61 E+00	(2.74 ± 0.62 E+00)
I-131	< 3.79E-02	(< 3.63E-02)
CS-134	< 3.47E-02	(< 3.89E-02)
CS-137	LESS THAN LLD	(< 3.60E-02)
BI-214	LESS THAN LLD	(5.18 ± 4.37 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 12/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 360.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(2.00 ± 0.34 E+00)
K-40	3.59 ± 0.51 E+00	(2.74 ± 0.62 E+00)
I-131	< 4.17E-02	(< 3.63E-02)
CS-134	< 4.07E-02	(< 3.89E-02)
CS-137	< 3.70E-02	(< 3.60E-02)
BI-214	LESS THAN LLD	(5.18 ± 4.37 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 12/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 358.6 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(2.00 ± 0.34 E+00)
K-40	(2.74 ± 0.62 E+00)
I-131	(< 3.63E-02)
CS-134	(< 3.89E-02)
CS-137	(< 3.60E-02)
BI-214	(5.18 ± 4.37 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

BSEP - 100

DECEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 12/04/95)

WAX MYRTLE

GAMMA SPECTROMETRY MASS: 342.9 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.42 ± 0.31 E+00	(2.00 ± 0.34 E+00)
K-40	1.68 ± 0.55 E+00	(2.74 ± 0.62 E+00)
I-131	< 3.79E-02	(< 3.63E-02)
CS-134	< 3.70E-02	(< 3.89E-02)
CS-137	< 3.59E-02	(< 3.60E-02)
BI-214	LESS THAN LLD	(5.18 ± 4.37 E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

BSEP - 101

DECEMBER, 1995

0.7 MI NE - INTAKE CANAL (BL-800)
(DATE COLLECTED: 12/04/95)

FESCUE

GAMMA SPECTROMETRY MASS: 339.2 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.12 ± 0.50 E+00)
K-40	6.89 ± 0.55 E+00	(6.70 ± 0.62 E+00)
I-131	< 3.86E-02	(< 3.27E-02)
CS-134	< 3.12E-02	(< 3.51E-02)
CS-137	< 3.32E-02	(< 2.86E-02)
TL-208	2.63 ± 2.38 E-02	(LESS THAN LLD)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

0.6 MI SW - DISCHARGE CANAL (BL-801)
(DATE COLLECTED: 12/04/95)

FESCUE

GAMMA SPECTROMETRY MASS: 413 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	1.09 ± 0.31 E+00	(1.12 ± 0.50 E+00)
K-40	6.40 ± 0.70 E+00	(6.70 ± 0.62 E+00)
I-131	< 5.13E-02	(< 3.27E-02)
CS-134	< 4.72E-02	(< 3.51E-02)
CS-137	< 3.91E-02	(< 2.86E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

10.0 MI - NOT SPECIFIED (CONTROL) (BL-802)
(DATE COLLECTED: 12/04/95)

FESCUE

GAMMA SPECTROMETRY MASS: 473.3 GRAMS WET

ISOTOPE	CONTROL ACTIVITY
BE-7	(1.12 ± 0.50 E+00)
K-40	(6.70 ± 0.62 E+00)
I-131	(< 3.27E-02)
CS-134	(< 3.51E-02)
CS-137	(< 2.86E-02)

BROADLEAF VEGETATION SAMPLES
(PICOCURIES PER GRAM)

DECEMBER, 1995

0.6 MI SSE - SPOIL POND (BL-803)
(DATE COLLECTED: 12/04/95)

FESCUE

GAMMA SPECTROMETRY MASS: 463 GRAMS WET

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
BE-7	LESS THAN LLD	(1.12 ± 0.50 E+00)
K-40	7.13 ± 0.67 E+00	(6.70 ± 0.62 E+00)
I-131	< 3.76E-02	(< 3.27E-02)
CS-134	< 3.25E-02	(< 3.51E-02)
CS-137	< 3.14E-02	(< 2.86E-02)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

5.5 MI SSW - FREE SWIMMERS AT DISCHARGE (FI-700)
(DATE COLLECTED: 10/30/95)

FREE SWIMMERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 673.2 GRAMS FRESH

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.32 ± 0.92 E+00	(3.55 ± 0.89 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

FREE SWIMMERS - ATLANTIC OCEAN (CONTROL) (FI-703)
(DATE COLLECTED: 10/30/95)

FREE SWIMMERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 659 GRAMS FRESH

ISOTOPE	CONTROL ACTIVITY
K-40	(3.55 ± 0.89 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

5.5 MI SSW - BOTTOM FEEDER AT DISCHARGE (FI-701)
(DATE COLLECTED: 10/30/95)

BOTTOM FEEDERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 565 GRAMS FRESH

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.55 ± 1.08 E+00	(3.27 ± 0.99 E+00)

FISH AND INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

BOTTOM FEEDER - ATLANTIC OCEAN (CONTROL) (FI-704)
(DATE COLLECTED: 10/30/95)

BOTTOM FEEDERS, EDIBLE PORTION

GAMMA SPECTROMETRY MASS: 473.7 GRAMS FRESH

ISOTOPE	CONTROL ACTIVITY
K-40	(3.27 ± 0.99 E+00)

INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

5.5 MI SSW - SH/BO AT DISCHARGE (IN-702)
(DATE COLLECTED: 10/30/95)

GAMMA SPECTROMETRY MASS: 675.2 GRAMS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.59 ± 0.68 E+00	(4.02 ± 0.83 E+00)

INVERTEBRATES SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

SH/BO - ATLANTIC OCEAN (CONTROL) (IN-705)
(DATE COLLECTED: 10/30/95)

GAMMA SPECTROMETRY MASS: 686.2 GRAMS

ISOTOPE	CONTROL ACTIVITY
K-40	(4.02 ± 0.83 E+00)

SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

SECOND SEMI-ANNUAL, 1995

4.9 MI SSW - DISCHARGE, BEACH (SS-500)
(DATE COLLECTED: 11/01/95)

GAMMA SPECTROMETRY MASS: 1010.5 GRAMS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
TL-208	1.07 ± 0.10 E+00	(NOT REQUIRED)
PB-212	2.69 ± 0.13 E+00	(NOT REQUIRED)
PB-214	3.12 ± 0.18 E+00	(NOT REQUIRED)
BI-212	1.86 ± 0.56 E+00	(NOT REQUIRED)
BI-214	3.09 ± 0.21 E+00	(NOT REQUIRED)
RA-226	5.37 ± 1.60 E+00	(NOT REQUIRED)
AC-228	2.88 ± 0.34 E+00	(NOT REQUIRED)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JULY, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.25E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(1.80 ± 0.99 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

JULY, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.25E+02	(< 9.25E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	1.53 ± 0.85 E+02	(1.80 ± 0.99 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

AUGUST, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 8.87E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(2.58 ± 1.27 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

AUGUST, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 8.87E+02	(< 8.87E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.00 ± 1.24 E+02	(2.58 ± 1.27 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

SEPTEMBER, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 8.89E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(2.67 ± 1.11 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

SEPTEMBER, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 8.89E+02	(< 8.89E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	3.19 ± 1.06 E+02	(2.67 ± 1.11 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

OCTOBER, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 8.62E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(5.33 ± 0.83 E+02)
RA-226	(1.47 ± 0.61 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

OCTOBER, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 8.62E+02	(< 8.62E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	2.11 ± 1.16 E+02	(5.33 ± 0.83 E+02)
RA-226	LESS THAN LLD	(1.47 ± 0.61 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

NOVEMBER, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.20E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(4.10 ± 0.57 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

NOVEMBER, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.20E+02	(< 9.20E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	1.80 ± 0.61 E+02	(4.10 ± 0.57 E+02)
TL-208	3.89 ± 3.07 E+00	(LESS THAN LLD)
PB-212	5.23 ± 4.86 E+00	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

DECEMBER, 1995

0.7 MI NE - INTAKE CANAL (CONTROL) (SW-400)

RADIOCHEMISTRY

ANALYSIS	LITERS	CONTROL ACTIVITY
TRITIUM	0.005	(< 9.07E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	CONTROL ACTIVITY
K-40	(2.67 ± 1.16 E+02)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

DECEMBER, 1995

4.9 MI SSW - DISCHARGE CANAL, STILL POND (SW-401)

RADIOCHEMISTRY

ANALYSIS	LITERS	SAMPLE ACTIVITY	CONTROL ACTIVITY
TRITIUM	0.005	< 9.07E+02	(< 9.07E+02)

GAMMA SPECTROMETRY VOLUME: 1 LITERS

ISOTOPE	SAMPLE ACTIVITY	CONTROL ACTIVITY
K-40	7.31 ± 0.99 E+02	(2.67 ± 1.16 E+02)

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

THIRD QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(1.31 ± 0.34 E+01)
1	1.1 MI E - MOORE ST EXTENSION	9.80 ± 3.40 E+00
2	1.0 MI ESE - MOORE ST EXTENSION	1.00 ± 0.33 E+01
3	0.9 MI SE - MOORE ST EXTENSION	9.30 ± 3.40 E+00
4	1.1 MI SSE - MOORE ST EXTENTION	1.07 ± 0.34 E+01
5	1.1 MI S - LEONARD ST	1.00 ± 0.35 E+01
6	1.0 MI S - BEMCO POWER LINE	8.10 ± 3.90 E+00
7	1.0 MI SW - HWY 87 AT RIGHT-OF-WAY	9.80 ± 3.30 E+00
8	1.2 MI W - HWY 87	9.90 ± 3.40 E+00
9	1.0 MI WNW - BETHEL CHURCH RD	1.26 ± 0.33 E+01
10	0.9 MI NW - BETHEL CHURCH RD	8.10 ± 3.40 E+00
11	0.9 MI NNW - BETHEL CHURCH RD	1.30 ± 0.33 E+01
12	1.0 MI N - BETHEL CHURCH RD	1.08 ± 0.33 E+01
13	1.2 MI NNE - BETHEL CHURCH RD	8.40 ± 3.60 E+00
14	0.5 MI NE - INTAKE CANAL	1.46 ± 0.40 E+01
15	0.9 MI ENE - INTAKE CANAL	1.12 ± 0.34 E+01
16	1.0 MI WSW - DISCHARGE CANAL	1.01 ± 0.34 E+01
17	1.5 MI ESE - PFIZER PROPERTY	1.29 ± 0.43 E+01
18	1.7 MI SE - PFIZER PROPERTY	1.25 ± 0.34 E+01
20	2.0 MI S - MOORE ST	9.70 ± 3.50 E+00
21	2.9 MI SSW - WEST ST AT SEA CAPTAIN	1.23 ± 0.36 E+01
22	5.3 MI SW - CASWELL BEACH RD	1.01 ± 0.33 E+01

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

THIRD QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(1.31 ± 0.34 E+01)
23	4.6 MI WSW - NEAR AIRPORT	8.40 ± 3.30 E+00
24	3.0 MI W - HWY 211	9.70 ± 3.30 E+00
25	8.7 MI WNW - ANTIOCH BAPTIST CHURCH	1.67 ± 0.41 E+01
26	5.9 MI NW - W BOILING SPRINGS RD	1.33 ± 0.37 E+01
27	5.0 MI NNW - HWY 133	9.00 ± 3.30 E+00
28	4.2 MI NW - AT SOUTH BRUNSWICK HS	1.03 ± 0.36 E+01
29	2.6 MI SSW - SOUTHPORT ELEMENTARY SCHOOL	9.50 ± 3.50 E+00
30	2.0 MI NE - SUNNY POINT MOT	1.01 ± 0.34 E+01
31	2.6 MI ENE - SUNNY POINT MOT	1.10 ± 0.34 E+01
32	5.7 MI ENE - FT FISHER AFB HOUSING	1.08 ± 0.36 E+01
33	4.0 MI E - FERRY SLIP IN NEW HANOVER CO	9.40 ± 3.40 E+00
34	5.5 MI ENE - FT FISHER MUSEUM	8.70 ± 3.40 E+00
35	7.5 MI SSE - BALD HEAD ISLAND	9.00 ± 2.90 E+00
36	9.3 MI NE - CAROLINA BEACH	1.96 ± 0.40 E+01
37	5.5 MI NW - BOILING SPRINGS LAKES	9.00 ± 3.30 E+00
38	11.0 MI W - SUNSET HARBOR	8.90 ± 3.30 E+00
39	5.3 MI SW - YAUPON BEACH CITY HALL	8.60 ± 3.40 E+00
40	6.9 MI WSW - LONG BEACH CITY HALL	1.06 ± 0.33 E+01
75	4.5 MI S - FT CASWELL BAPTIST ASSEMBLY	1.00 ± 0.35 E+01
76	4.8 MI SSW - CASWELL BEACH	1.31 ± 0.34 E+01
77	5.3 MI SSE - BALDHEAD ISLAND	1.15 ± 0.32 E+01

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

THIRD QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(1.31 ± 0.34 E+01)
78	10.0 MI NNE - HWY 133 AT SR 1521	9.20 ± 3.50 E+00
79	9.5 MI N - SR 1539 AT SR 1521	1.31 ± 0.35 E+01
81	10.0 MI WNW - MIDWAY RD AT SR 1508	1.31 ± 0.34 E+01

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

FOURTH QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.60 ± 1.30 E+00)
1	1.1 MI E - MOORE ST EXTENSION	9.40 ± 1.40 E+00
2	1.0 MI ESE - MOORE ST EXTENSION	9.70 ± 1.30 E+00
3	0.9 MI SE - MOORE ST EXTENSION	9.80 ± 1.60 E+00
4	1.1 MI SSE - MOORE ST EXTENTION	9.30 ± 1.40 E+00
5	1.1 MI S - LEONARD ST	9.60 ± 1.30 E+00
6	1.0 MI S - BEMCO POWER LINE	8.40 ± 1.20 E+00
7	1.0 MI SW - HWY 87 AT RIGHT-OF-WAY	1.00 ± 0.14 E+01
8	1.2 MI W - HWY 87	8.40 ± 1.30 E+00
9	1.0 MI WNW - BETHEL CHURCH RD	9.40 ± 1.30 E+00
10	0.9 MI NW - BETHEL CHURCH RD	8.70 ± 1.40 E+00
11	0.9 MI NNW - BETHEL CHURCH RD	9.90 ± 1.30 E+00
12	1.0 MI N - BETHEL CHURCH RD	9.90 ± 1.20 E+00
13	1.2 MI NNE - BETHEL CHURCH RD	9.00 ± 1.50 E+00
14	0.5 MI NE - INTAKE CANAL	1.05 ± 0.16 E+01
15	0.9 MI ENE - INTAKE CANAL	1.06 ± 0.13 E+01
16	1.0 MI WSW - DISCHARGE CANAL	9.30 ± 1.50 E+00
17	1.5 MI ESE - PFIZER PROPERTY	1.03 ± 0.13 E+01
18	1.7 MI SE - PFIZER PROPERTY	8.70 ± 1.40 E+00
20	2.0 MI S - MOORE ST	8.00 ± 1.40 E+00
21	2.9 MI SSW - WEST ST AT SEA CAPTAIN	8.90 ± 1.50 E+00
22	5.3 MI SW - CASWELL BEACH RD	9.70 ± 1.40 E+00

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

FOURTH QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.60 ± 1.30 E+00)
23	4.6 MI WSW - NEAR AIRPORT	7.60 ± 1.40 E+00
24	3.0 MI W - HWY 211	9.10 ± 1.50 E+00
25	8.7 MI WNW - ANTIOCH BAPTIST CHURCH	1.02 ± 0.14 E+01
26	5.9 MI NW - W BOILING SPRINGS RD	1.03 ± 0.13 E+01
27	5.0 MI NNW - HWY 133	8.10 ± 1.30 E+00
28	4.2 MI NW - AT SOUTH BRUNSWICK HS	9.20 ± 1.40 E+00
29	2.6 MI SSW - SOUTHPORT ELEMENTARY SCHOOL	8.50 ± 1.40 E+00
30	2.0 MI NE - SUNNY POINT MOT	9.50 ± 1.30 E+00
31	2.6 MI ENE - SUNNY POINT MOT	1.03 ± 0.13 E+01
32	5.7 MI ENE - FT FISHER AFB HOUSING	1.00 ± 0.15 E+01
33	4.0 MI E - FERRY SLIP IN NEW HANOVER CO	8.40 ± 1.30 E+00
34	5.5 MI ENE - FT FISHER MUSEUM	9.00 ± 1.40 E+00
35	7.5 MI SSE - BALD HEAD ISLAND	7.50 ± 1.30 E+00
36	9.3 MI NE - CAROLINA BEACH	8.10 ± 1.60 E+00
37	5.5 MI NW - BOILING SPRINGS LAKES	7.90 ± 1.40 E+00
38	11.0 MI W - SUNSET HARBOR	8.10 ± 1.60 E+00
39	5.3 MI SW - YAUPON BEACH CITY HALL	9.10 ± 1.30 E+00
40	6.9 MI WSW - LONG BEACH CITY HALL	9.00 ± 1.60 E+00
75	4.5 MI S - FT CASWELL BAPTIST ASSEMBLY	1.11 ± 0.13 E+01
76	4.8 MI SSW - CASWELL BEACH	9.80 ± 1.50 E+00
77	5.3 MI SSE - BALDHEAD ISLAND	8.80 ± 1.90 E+00

ENVIRONMENTAL TLD
(MILLIROENTGEN PER 90 DAYS)

FOURTH QUARTER, 1995

	STATION	MILLIROENTGEN PER 90 DAYS
	CONTROL	(9.60 ± 1.30 E+00)
78	10.0 MI NNE - HWY 133 AT SR 1521	8.90 ± 1.90 E+00
79	9.5 MI N - SR 1539 AT SR 1521	9.20 ± 1.40 E+00
81	10.0 MI WNW - MIDWAY RD AT SR 1508	9.60 ± 1.30 E+00