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U.S. Nuclear Regulatory Commission
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Gentlemen:

In the Matter of)	Docket No.50-390
Tennessee Valley Authority)	50-391

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 AND 2 - ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT - 2002

In accordance with the requirements of the WBN Unit 1 Technical Specifications, Section 5.9.2, "Annual Radiological Environmental Operating Report," and the WBN Offsite Dose Calculation Manual (ODCM), Administrative Control Section 5.1, the 2002 Annual Radiological Environmental Monitoring Program (REMP) results and Data Supplement for WBN are enclosed. The REMP implements 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, and IV.C.

The report, which is prepared by TVA's Environmental Radiological Monitoring and Instrumentation group at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The results of the environmental samples indicated that radiation exposure to members of the general public, which may have been attributable to the operation of WBN, was negligible. The majority of environmental radioactivity measured is primarily the result of naturally occurring radioactive materials or radionuclides commonly found in the environment.

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U.S. Nuclear Regulatory Commission
Page 2

MAY 12 2003

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Annual Radiological Environmental Operating Report

**Watts Bar
Nuclear Plant
2002**



ANNUAL ENVIRONMENTAL RADIOLOGICAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
2002

TENNESSEE VALLEY AUTHORITY

April 2003

TABLE OF CONTENTS

Table of Contents	ii
List of Tables.	iv
List of Figures.	v
Executive Summary	1
Introduction	2
Naturally Occurring and Background Radioactivity.	2
Electric Power Production.	3
Site/Plant Description.	6
Radiological Environmental Monitoring Program.	8
Direct Radiation Monitoring.	11
Measurement Techniques.	11
Results.	12
Atmospheric Monitoring.	14
Sample Collection and Analysis.	14
Results.	15
Terrestrial Monitoring.	16
Sample Collection and Analysis.	16
Results.	17
Liquid Pathway Monitoring.	19
Sample Collection and Analysis.	19
Results.	20
Assessment and Evaluation.	23
Results	23
Conclusions.	24
References.	25

Appendix A Radiological Environmental Monitoring Program and Sampling Locations.	29
Appendix B 2002 Program Modifications.	40
Appendix C Program Deviations.	42
Appendix D Analytical Procedures.	45
Appendix E Nominal Lower Limits of Detection (LLD).	48
Appendix F Quality Assurance/Quality Control Program.	53
Appendix G Land Use Survey.	59
Appendix H Data Tables and Figures.	65

LIST OF TABLES

Table 1	Comparison of Program Lower Limits of Detection with Regulatory Limits for Maximum Annual Average Effluent Concentrations Released to Unrestricted Areas and Reporting Levels.	26
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LIST OF FIGURES

Figure 1	Tennessee Valley Region.	27
Figure 2	Environmental Exposure Pathways of Man Due to Releases of Radioactive Materials to the Atmosphere and Lake.	28

EXECUTIVE SUMMARY

This report describes the radiological environmental monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 2002. The program includes the collection of samples from the environment and the determination of the concentrations of radioactive materials in the samples. Samples are taken from stations in the general area of the plant and from areas that should not be influenced by plant operations. Material sampled includes air, water, milk, foods, soil, fish, sediment, and direct radiation levels. Results from stations near the plant are compared with concentrations from control locations and with preoperational measurements to determine potential impacts of plant operations.

The majority of environmental radioactivity measured by the program was due to naturally occurring radioactive materials or radionuclides commonly found in the environment as a result of atmospheric fallout and the operation of other nuclear facilities in the area. Low levels of Cs-137 were measured in soil samples. Trace levels of Cs-137 were also detected in fish and shoreline sediment samples. The concentrations of Cs-137 were consistent with the level normally found in the environment as the result of past nuclear weapons testing.

Beginning with the third quarter sampling period, low levels of tritium were detected in the on site ground water monitoring well located between the plant and the river. Investigations are ongoing to identify the source of the tritium. In addition, Co-60, Cs-137, and Sb-125 were identified in sediment collected from the onsite Yard Holding Pond. The level of activity measured in these on site locations would not represent a risk of exposure to the general public.

INTRODUCTION

This report describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The measurements are made to comply with the requirements of 10 CFR 50, Appendix A, Criterion 64 and 10 CFR 50, Appendix I, Section IV.B.2, IV.B.3 and IV.C and to determine potential effects on public health and safety. This report satisfies the annual reporting requirements of WBN Technical Specification 5.9.2 and Offsite Dose Calculation Manual (ODCM) Administrative Control 5.1. In addition to reporting the data prescribed by specific requirements, other information is included to help correlate the significance of results measured by this monitoring program to the levels of environmental radiation resulting from naturally occurring radioactive materials.

Naturally Occurring and Background Radioactivity

Most materials in our world today contain trace amounts of naturally occurring radioactivity. Potassium-40 (K-40), with a half-life of 1.3 billion years, is one of the major types of radioactive materials found naturally in our environment. Approximately 0.01 percent of all potassium is radioactive potassium-40. Other examples of naturally occurring radioactive materials are beryllium (Be)-7, bismuth (Bi)-212 and 214, lead (Pb)-212 and 214, thallium (Tl)-208, actinium (Ac)-228, uranium (U)-238 and 235, thorium (Th)-234, radium (Ra)-226, radon (Ra)-222, carbon (C) -14, and hydrogen (H)-3 (generally called tritium). These naturally occurring radioactive materials are in the soil, our food, our drinking water, and our bodies. The radiation from these materials makes up a part of the low-level natural background radiation. The remainder of the natural background radiation comes from outer space.

It is possible to get an idea of the relative hazard of different types of radiation sources by evaluating the amount of radiation the U.S. population receives from each general type of radiation source. The information below is primarily adapted from References 2 and 3.

U.S. GENERAL POPULATION AVERAGE DOSE EQUIVALENT ESTIMATES

Source	Millirem/Year Per Person
Natural background dose equivalent	
Cosmic	27
Cosmogenic	1
Terrestrial	28
In the body	39
Radon	200
Total	295
Release of radioactive material in natural gas, mining, ore processing, etc.	5
Medical (effective dose equivalent)	53
Nuclear weapons fallout	less than 1
Nuclear energy	0.28
Consumer products	0.03
Total	355 (approximately)

As can be seen from the data presented above, natural background radiation dose equivalent to the U.S. population normally exceeds that from nuclear plants by several hundred times. This indicates that nuclear plant operations normally result in a population radiation dose equivalent which is insignificant compared to that which results from natural background radiation. It should be noted that the use of radiation and radioactive materials for medical uses has resulted in a similar effective dose equivalent to the U.S. population as that caused by natural background cosmic and terrestrial radiation.

Electric Power Production

Nuclear power plants are similar in many respects to conventional coal burning (or other fossil fuel) electrical generating plants. The basic process behind electrical power production in both types of plants is that fuel is used to heat water to produce steam which provides the force to turn

turbines and generators. In a nuclear power plant, the fuel is uranium and heat is produced in the reactor through the fission of the uranium. Nuclear plants include many complex systems to control the nuclear fission process and to safeguard against the possibility of reactor malfunction. The nuclear reactions produce radionuclides commonly referred to as fission and activation products. Very small amounts of these fission and activation products are released into the plant systems. This radioactive material can be transported throughout plant systems and some of it released to the environment.

Paths through which radioactivity from a nuclear power plant is routinely released are monitored. Liquid and gaseous effluent monitors record the radiation levels for each release. These monitors also provide alarm mechanisms to prompt termination of any release above limits.

Releases are monitored at the onsite points of release and through the radiological environmental monitoring program which measures the environmental radiation in areas around the plant. In this way, the release of radioactive materials from the plant is tightly controlled, and verification is provided that the public is not exposed to significant levels of radiation or radioactive materials as the result of plant operations.

The WBN ODCM, which describes the program required by the plant Technical Specifications, prescribes limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of these effluents.

The dose to a member of the general public from radioactive materials released to unrestricted areas, as given in NRC guidelines and the ODCM, is limited as follows:

Liquid Effluents

Total body	≤ 3 mrem/year
Any organ	≤ 10 mrem/year

Gaseous Effluents

Noble gases:

Gamma radiation	≤ 10 mrad/year
Beta radiation	≤ 20 mrad/year

Particulates:

Any organ	≤ 15 mrem/year
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The EPA limits for the total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are as follows:

Total body	≤ 25 mrem/year
Thyroid	≤ 75 mrem/year
Any other organ	≤ 25 mrem/year

Appendix B to 10 CFR 20 presents annual average limits for the concentrations of radioactive materials released in gaseous and liquid effluents at the boundary of the unrestricted areas. Table 1 of this report presents the annual average concentration limits for the principal radionuclides associated with nuclear power plant effluents. The table also presents (1) the concentrations of radioactive materials in the environment which would require a special report to the NRC and (2) the detection limits for measured radionuclides. It should be noted that the levels of radioactive materials measured in the environment are typically below or only slightly above the lower limit of detection.

SITE/PLANT DESCRIPTION

The WBN site is located in Rhea county, Tennessee, on the west bank of the Tennessee River at Tennessee River Mile (TRM) 528. Figure 1 shows the site in relation to other TVA projects.

The WBN site, containing approximately 1770 acres on Chickamauga Lake, is approximately 2 miles south of the Watts Bar Dam and approximately 31 miles north-northeast of TVA's Sequoyah Nuclear Plant (SQN) site. Also located within the reservation are the Watts Bar Dam and Hydro-Electric Plant, the Watts Bar Steam Plant (not in operation), the TVA Central Maintenance Facility, and the Watts Bar Resort Area.

Approximately 16,000 people live within 10 miles of the WBN site. More than 80 percent of these live between 5 and 10 miles from the site. Two small towns, Spring City and Decatur, are located in this area. Spring City, with a population of approximately 2,200, is northwest and north-northwest from the site, while Decatur, with about 1,400 people, is south and south-southwest from the plant. The remainder of the area within 10 miles of the site is sparsely populated, consisting primarily of small farms and individual residences.

The area between 10 and 50 miles from the site includes portions of the cities of Chattanooga and Knoxville. The largest urban concentration in this area is the city of Chattanooga, located to the southwest and south-southwest. The city of Chattanooga has a population of about 153,000, with approximately 80 percent located between 40 and 50 miles from the site and the remainder located beyond 50 miles. The city of Knoxville is located to the east-northeast, with not more than 10 percent of its 165,000 plus people living within 50 miles of the site. Three smaller urban areas of greater than 20,000 people are located between 30 and 40 miles from the site. Oak Ridge is approximately 40 miles to the northeast, the twin cities of Alcoa and Maryville are located 45 to 50 miles to the east-northeast, and Cleveland is located about 30 miles to the south.

Chickamauga Reservoir is one of a series of highly controlled multiple-use reservoirs whose primary uses are flood control, navigation, and the generation of electric power. Secondary

uses include industrial and public water supply and waste disposal, commercial fishing, and recreation. Public access areas, boat docks, and residential subdivisions have been developed along the reservoir shoreline.

WBN consists of two pressurized water reactors. WBN Unit 1 received a low power operating license (NPF-20) on November 9, 1995, and achieved initial criticality in January 1996. The full power operating license (NPF-90) was received on February 7, 1996. Commercial operation was achieved May 25, 1996. WBN Unit 2 was deferred October 24, 2000, in accordance with the guidance in Generic Letter 87-15, "Policy Statement on Deferred Plants."

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Most of the radiation and radioactivity generated in a nuclear power reactor is contained within the reactor itself or one of the other plant systems. Plant effluent radiation monitors are designed to monitor radionuclides released to the environment. Environmental monitoring is a final verification that the systems are performing as planned. The monitoring program is designed to monitor the pathways between the plant and the people in the immediate vicinity of the plant. Sample types are chosen so that the potential for detection of radioactivity in the environment will be maximized. The Radiological Environmental Monitoring Program (REMP) for WBN is outlined in Appendix A.

There are two primary pathways by which radioactivity can move through the environment to humans: air and water (see Figure 2). The air pathway can be separated into two components: the direct (airborne) pathway and the indirect (ground or terrestrial) pathway. The direct airborne pathway consists of direct radiation and inhalation by humans. In the terrestrial pathway, radioactive materials may be deposited on the ground or on plants and subsequently ingested by animals and/or humans. Human exposure through the liquid pathway may result from drinking water, eating fish, or by direct exposure at the shoreline. The types of samples collected in this program are designed to monitor these pathways.

A number of factors were considered in determining the locations for collecting environmental samples. The locations for the atmospheric monitoring stations were determined from a critical pathway analysis based on weather patterns, dose projections, population distribution, and land use. Terrestrial sampling stations were selected after reviewing such things as the locations of dairy animals and gardens in conjunction with the air pathway analysis. Liquid pathway stations were selected based on dose projections, water use information, and availability of media such as fish and sediment. Table A-2 (Appendix A, Table 2: This notation system is used for all tables and figures given in the appendices.) lists the sampling stations and the types of samples

collected from each. Modifications made to the WBN monitoring program in 2002 are described in Appendix B.

Deviations occur in the monitoring program due to equipment problems with automatic sampling systems, sample unavailability or when analyses cannot be completed. Deviations to the sampling and analysis schedule during 2002 are described in Appendix C.

To determine the amount of radioactivity in the environment prior to the operation of WBN, a preoperational radiological environmental monitoring program was initiated in December 1976 and operated through December 31, 1995. Measurements of the same types of radioactive materials that are measured currently were assessed during the preoperational phase to establish normal background levels for various radionuclides in the environment. During the 1950s, 60s, and 70s, atmospheric nuclear weapons testing released radioactive material to the environment causing fluctuations in background radiation levels. Knowledge of preexisting radionuclide patterns in the environment permits a determination, through comparison and trending analyses, of the actual environmental impact of WBN operation.

The determination of environmental impact during the operating phase also considers the presence of control stations that have been established in the environment. Results of environmental samples taken at control stations (far from the plant) are compared with those from indicator stations (near the plant) to aid in the determination of the impacts from WBN operation.

The sample analysis is performed by TVA's Environmental Radiological Monitoring and Instrumentation (ERM&I) group located at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama. Analyses are conducted in accordance with written and

approved procedures and are based on accepted methods. A summary of the analysis techniques and methodology is presented in Appendix D. Data tables summarizing the sample analysis results are presented in Appendix H. The Data Supplement to this report contains the results of all measurements made as a part of this program.

The radiation detection devices and analysis methods used to determine the radionuclide content of samples collected in the environment are very sensitive to small amounts of radioactivity. The sensitivity of the measurement process is defined in terms of the lower limit of detection (LLD). A description of the nominal LLDs for the ERM&I laboratory is presented in Appendix E.

The ERM&I laboratory operates under a comprehensive quality assurance/quality control program to monitor laboratory performance throughout the year. The program is intended to detect any problems in the measurement process as soon as possible so they can be corrected. This program includes equipment checks to ensure that the radiation detection instruments are working properly and the analysis of quality control samples which are included alongside routine environmental samples. To provide for interlaboratory comparison program cross checks, the laboratory participates in a blind sample program administered by Analytics, Incorporated. Samples split with the State of Tennessee provide an additional verification of the overall performance of the laboratory. A complete description of the program is presented in Appendix F.

DIRECT RADIATION MONITORING

Direct radiation levels are measured at a number of stations around the plant site. These measurements include contributions from cosmic radiation, radioactivity in the ground, fallout from atmospheric nuclear weapons tests conducted in the past, and any radioactivity that may be present as a result of plant operations. Because of the relatively large variations in background radiation as compared to the small levels from the plant, contributions from the plant may be difficult to distinguish.

Direct radiation levels measured in the area around the WBN site in 2002 were consistent with levels from previous years and with levels measured at other locations in the region.

Measurement Techniques

Direct radiation measurements are made with thermoluminescent dosimeters (TLDs). The Panasonic Model UD-814 dosimeter is used for the measurement of direct radiation levels in the environment. This dosimeter contains four elements consisting of one lithium borate and three calcium sulfate phosphors. The calcium sulfate phosphors are shielded by approximately 100 mg/cm² plastic and lead to compensate for the over-response of the detector to low energy radiation.

The TLDs are placed approximately one meter above the ground, with two or more TLDs at each station. Sixteen monitoring points are located around the plant near the site boundary; one location in each of the 16 compass sectors. An additional 16 monitoring points are located approximately 5 miles from the plant in each of the 16 sectors. Dosimeters are also placed at the perimeter and remote air monitoring sites and at additional locations out to approximately 32 miles from the site. The environmental TLD locations are listed in Table A-3. The TLDs are exchanged every 3 months and the accumulated exposure is read with a Panasonic Model UD-710A automatic reader interfaced with a computer system for data analysis.

Since the calcium sulfate phosphor is much more sensitive than the lithium borate, the measured exposure is taken as the median of the results obtained from the calcium sulfate phosphors. The values are corrected for gamma response, system variations, and transit exposure, with individual gamma response calibrations for each element. The system meets or exceeds the performance specifications outlined in Regulatory Guide 4.13 for environmental applications of TLDs.

Results

Results are normalized to a standard quarter (91.25 days or 2190 hours). The monitoring locations are grouped according to the distance from the plant. The first group consists of locations within 1 mile of the plant. The second group lies between 1 and 2 miles, the third group between 2 and 4 miles, the fourth group between 4 and 6 miles, and the fifth group is made up of monitoring points more than 6 miles from the plant. Past data have shown that the average results from groups greater than 2 miles from the plant are essentially the same. Therefore, for purposes of this report, locations 2 miles or less from the plant are identified as "onsite" and all others are considered "offsite."

The quarterly gamma radiation levels determined from the TLDs deployed around WBN in 2002 are summarized in Table H-1. The results from all measurements at individual stations are presented in Table H-2. The exposures are measured in milliroentgens (mR). For purposes of this report, one milliroentgen, one millirem (mrem) and one millirad (mrad) are assumed to be numerically equivalent. The rounded average annual exposures are shown below. For comparison purposes, the average direct radiation measurements made in the preoperational monitoring program for the period of 1990 to 1995 are also shown.

	Annual Average Direct Radiation Levels WBN <u>mR/Year</u>	
	<u>2002</u>	<u>Preoperational Average</u>
Onsite Stations	64	65
Offsite Stations	58	57

The data in Table H-1 indicate that the average quarterly radiation levels at the WBN onsite stations are approximately 1.5 mR/quarter higher than levels at the offsite stations. This difference is consistent with levels measured for the preoperation and construction phases of TVA nuclear power plant sites where the average levels onsite were generally 2-6 mR/quarter higher than levels offsite. The causes of these differences have not been isolated; however, it is postulated that the differences are probably attributable to combinations of influences such as natural variations in environmental radiation levels, earth-moving activities onsite, and the mass of concrete employed in the construction of the plant. Other undetermined influences may also play a part.

Figure H-1 compares plots of the data from the onsite or site boundary stations with those from the offsite stations over the period from 1990 through 2002. The results reported in 2002 are consistent with direct radiation levels reported in previous years. There is no indication that WBN activities increased the background radiation levels normally observed in the areas surrounding the plant.

ATMOSPHERIC MONITORING

The atmospheric monitoring network is divided into three groups identified as local, perimeter, and remote. Four local air monitoring stations are located on or adjacent to the plant site in the general directions of greatest wind frequency. Four perimeter air monitoring stations are located between 6 to 11 miles from the plant, and two remote air monitors are located out to 15 miles. The monitoring program and the locations of monitoring stations are identified in the tables and figures of Appendix A. The remote stations are used as control or baseline stations.

Results from the analysis of samples in the atmospheric pathway are presented in Tables H-3 and H-4. Radioactivity levels identified in this reporting period are consistent with background and preoperational program data. There is no indication of an increase in atmospheric radioactivity as a result of WBN.

Sample Collection and Analysis

Air particulates are collected by continuously sampling air at a flow rate of approximately 2 cubic feet per minute (cfm) through a 2-inch glass fiber filter. The sampling system consists of a pump, a magnehelic gauge for measuring the drop in pressure across the system, and a dry gas meter. This allows an accurate determination of the volume of air passing through the filter. This system is housed in a building approximately 2 feet by 3 feet by 4 feet. The filter is contained in a sampling head mounted on the outside of the monitor building. The filter is replaced weekly. Each filter is analyzed for gross beta activity about 3 days after collection to allow time for the radon daughters to decay. Every 4 weeks composites of the filters from each location are analyzed by gamma spectroscopy.

Gaseous radioiodine is sampled using a commercially available cartridge containing TEDA-impregnated charcoal. This system is designed to collect iodine in both the elemental form and as organic compounds. The cartridge is located in the same sampling head as the air particulate

filter and is downstream of the particulate filter. The cartridge is changed at the same time as the particulate filter and samples the same volume of air. Each cartridge is analyzed for I-131 by gamma spectroscopy analysis.

Rainwater is collected by use of a collection tray attached to the monitor building. The collection tray is protected from debris by a screen cover. As water drains from the tray, it is collected in one of two 5-gallon containers inside the monitor building. A 1-gallon sample is removed from the container every 4 weeks. Any excess water is discarded. Rainwater samples are held to be analyzed only if air particulate samples indicate the presence of elevated levels or if fallout is expected. For example, rainwater samples were analyzed during the period of fallout following the accident at Chernobyl in 1986. Since no plant-related air activity was detected in 2002, no rainwater samples from WBN were analyzed in this reporting period.

Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 2002 was consistent with levels reported in previous years. The average gross beta activity measured for air particulate samples from indicator locations was 0.021 pCi/m³ and the average gross beta activity for control location samples was 0.020. The annual averages of the gross beta activity in air particulate filters at these stations for the period 1977-2002 are presented in Figure H-2. Increased levels due to fallout from atmospheric nuclear weapons testing are evident in the years prior to 1981 and a small increase from the Chernobyl accident can be seen in 1986. These patterns are consistent with data from monitoring programs conducted by TVA at other nuclear power plant construction sites. Comparison with the same data for the preoperational period of 1990-1995 indicates that the annual average gross beta activity for air particulates as measured in the 2002 monitoring program was consistent with preoperational data.

Only natural radioactive materials were identified by the monthly gamma spectral analysis of the air particulate samples. As shown in Table H-4, I-131 was not detected in any charcoal cartridge samples collected in 2002.

TERRESTRIAL MONITORING

Terrestrial monitoring is accomplished by collecting samples of environmental media that may transport radioactive material from the atmosphere to humans. For example, radioactive material may be deposited on a vegetable garden and be ingested along with the vegetables or it may be deposited on pasture grass where dairy cattle are grazing. When the cow ingests the radioactive material, some of it may be transferred to the milk and consumed by humans who drink the milk. Therefore, samples of milk, soil, and food crops are collected and analyzed to determine potential impacts from exposure through this pathway. The results from the analysis of these samples are shown in Tables H-5 through H-11.

A land use survey is conducted annually between April and October to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant. This land use survey satisfies the requirements 10 CFR 50, Appendix I, Section IV.B.3. From data produced by the land use survey, radiation doses are projected for individuals living near the plant. Doses from air submersion are calculated for the nearest residence in each sector, while doses from drinking milk or eating foods produced near the plant are calculated for the areas with milk-producing animals and gardens, respectively. These dose projections are hypothetical extremes and do not represent actual doses to the general public. The doses projected as a result of the 2002 land use survey are presented in Appendix G.

Sample Collection and Analysis

Milk samples are collected every 2 weeks from three indicator dairies and from at least one control dairy. Milk samples are placed on ice for transport to the radioanalytical laboratory. A specific analysis for I-131 and a gamma spectral analysis are performed on each sample and once per quarter samples are analyzed for Sr-89 and Sr-90.

The monitoring program includes a provision for sampling of vegetation from locations where milk is being produced and when milk sampling cannot be conducted. There were no periods during 2002 when vegetation sampling was necessary.

Soil samples are collected annually from the air monitoring locations. The samples are collected with either a "cookie cutter" or an auger type sampler. After drying and grinding, the sample is analyzed by gamma spectroscopy. When the gamma analysis is complete, the sample is ashed and analyzed for Sr-89 and Sr-90.

Samples representative of food crops raised in the area near the plant are obtained from individual gardens, corner markets, or cooperatives. Types of foods may vary from year to year as a result of changes in the local vegetable gardens. In 2002 samples of apples, cabbage, corn, green beans, and tomatoes, were collected from local vegetable gardens and/or farms. Samples of the same food products grown in areas that would not be effected by the plant were collected as control samples. The edible portion of each sample is analyzed by gamma spectroscopy.

Results

The results from the analysis of milk samples are presented in Table H-5. All I-131 values were below the established nominal LLD of 0.4 pCi/liter. The results for the quarterly Sr-89, Sr-90 analysis were also below the established LLD's for these analyses. The gamma isotopic analysis of milk samples detected only naturally occurring radionuclides. The predominant isotope reported in milk samples was the naturally occurring K-40.

Consistent with most of the environment, Cs-137 was detected in all of the soil samples collected in 2002. The maximum concentration of Cs-137 was 1.17 pCi/g. The concentrations were consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes. The results of the analysis of soil samples are summarized in Table H-6.

A plot of the annual average Cs-137 concentrations in soil is presented in Figure H-3.

Concentrations of Cs-137 in soil are steadily decreasing as a result of the cessation of weapons testing in the atmosphere, the 30 year half-life of Cs-137, and transport through the environment.

The radionuclides measured in food samples were naturally occurring. The maximum K-40 value was 2,560 pCi/kg in greenbeans. The results are reported in Tables H-7 through H-11.

LIQUID PATHWAY MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of edible fish and invertebrates, or from direct radiation exposure from radioactive materials deposited in the shoreline sediment. The aquatic monitoring program includes the collection of samples of river (surface) water, groundwater, drinking water supplies, fish, and shoreline sediment. Indicator samples were collected downstream of the plant and control samples collected within the reservoir upstream of the plant or in the next upstream reservoir (Watts Bar Lake).

Results from the analysis of the liquid pathway samples are presented in Table H-12 through H-18. Radioactivity levels in surface and public water, fish, and shoreline sediment were consistent with background and/or fallout levels previously reported. Low levels of Cs-137 were measured in samples of shoreline sediment and fish. Beginning with the third quarter sampling period, low levels of tritium were detected in samples from the down gradient on site ground water monitoring well. The tritium concentration were very low presented no risk of exposure to site personnel or the public. Results for the sediment sampling conducted in the onsite Yard Holding Pond are discussed later in this section.

Sample Collection and Analysis

Samples of surface water are collected from the Tennessee River using automatic sampling systems from two downstream stations and one upstream station. A timer turns on the system at least once every 2 hours. The line is flushed and a sample collected into a composite container. A 1-gallon sample is removed from the container at 4-week intervals and the remaining water is discarded. Each sample is analyzed for gamma-emitting radionuclides and for gross beta activity. The samples are composited quarterly and analyzed for tritium.

Samples are also collected by an automatic sampling system at the first two downstream drinking water intakes. These samples are collected in the same manner as the surface water samples.

These monthly samples are analyzed for gamma-emitting radionuclides and for gross beta activity. Quarterly composites are analyzed for tritium. The samples collected by the automatic sampling device are taken directly from the river at the intake structure. Since the sample at this point is raw water, the upstream surface water sample is used as a control sample for drinking water.

Groundwater is sampled from one onsite well down gradient from the plant and one onsite well up gradient from the plant. The onsite wells are sampled with a continuous sampling system. The samples are composited by location quarterly and analyzed for gross beta activity, for gamma-emitting radionuclides, and for tritium content. In addition, a grab sample is collected quarterly from a private well in an area unaffected by WBN. The grab sample is also analyzed for gross beta activity, gamma-emitting radionuclides, and for tritium.

Samples of commercial and game fish species are collected semiannually from each of two reservoirs: the reservoir on which the plant is located (Chickamauga Reservoir) and the upstream reservoir (Watts Bar Reservoir). The samples are collected using a combination of netting techniques and electrofishing. The ODCM specifies analysis of the edible portion of the fish. To comply with this requirement, filleted portions are taken from several fish of each species. The samples are analyzed by gamma spectroscopy.

Samples of shoreline sediment are collected from recreation areas in the vicinity of the plant. The samples are dried, ground, and analyzed by gamma spectroscopy.

Samples of sediment are also collected from the onsite Yard Holding Pond. A total of five samples were collected in 2002.

Results

Gross beta activity was detectable above the nominal LLD in most of the surface water samples. The gross beta concentrations averaged 2.7 pCi/liter in downstream samples and 3.0 pCi/liter in upstream samples. These levels were consistent with results found during the preoperational monitoring program. A summary table of the results is shown in Table H-12.

No fission or activation products were identified in drinking water samples. Average gross beta activity at downstream stations was 2.6 pCi/liter while the average for upstream stations was pCi/liter. The results are shown in Table H-13. Trend plots of the gross beta activity in surface water and drinking water samples from 1977 through 2002 are presented in Figure H-4.

The gamma isotopic analysis of ground water samples identified naturally occurring radionuclides. Gross beta concentrations in samples from the onsite indicator location averaged 3.2 pCi/liter. The average gross beta activity for samples from the control locations was 2.4 pCi/liter. Low levels of tritium were detected in samples from the on site down gradient monitoring well beginning in the third quarter of 2002. The maximum concentration measured was 669 pCi/L. Investigations to identify the source of tritium are ongoing. There was no tritium detected in the on site up gradient well or the off site ground water monitoring location. The results are presented in Table H-14.

Measurable levels of Cs-137 were identified in a total of seven fish samples. The maximum Cs-137 concentration was 0.11 pCi/g measured in commercial fish collected in the upstream control location. Other radioisotopes found in fish were naturally occurring, with the most notable being K-40. The results are summarized in Tables H-15 and H-16. Trend plots of the annual average Cs-137 concentrations measured in fish samples are presented in Figure H-5. The Cs-137 activities are consistent with preoperational results produced by fallout or effluents from other nuclear facilities.

Low levels of Cs-137 consistent concentrations present in the environment as the result of past nuclear weapons testing or other nuclear operations in the area were measured in samples of shoreline sediment. The results for the analysis of shoreline sediment is presented in Table H-17. Trend plots of the average concentration of Cs-137 in shoreline sediment are presented in Figure H-6.

Consistent with previous monitoring conducted for the onsite ponds, Cs-137 was detected in the sediment samples. The average of the Cs-137 levels measured in sediment from the onsite ponds

was 0.10 pCi/gm. In addition, Co-60 and Sb-125 were also detected in some of the samples collected from the Yard Holding Pond. The results for the analysis of pond sediment samples are provided in Table H-18. Since these radionuclides were present in relatively low concentrations and confined to the Yard Holding Pond located in the owner controlled area not open to the general public, the presence of these radionuclides would not represent any increased risk of exposure to the general public.

ASSESSMENT AND EVALUATION

Potential doses to the public are estimated from measured effluents using computer models. These models were developed by TVA and are based on guidance provided by the NRC in Regulatory Guide 1.109 for determining the potential dose to individuals and populations living in the vicinity of the plant. The results of the effluent dose calculations are reported in the Annual Radiological Effluent Release Report. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum expected values which will tend to overestimate the dose to the "hypothetical" person. The calculated maximum dose due to plant effluents are small fractions of the applicable regulatory limits. In reality, the expected dose to actual individuals is significantly lower.

Based on the very low concentrations of radionuclides actually present in the plant effluents, radioactivity levels measured in the environment as result of plant operations are expected to be negligible. The results for the radiological environmental monitoring conducted for the WBN 2002 operations confirm this expectation.

Results

As stated earlier in this report, the estimated increase in radiation dose equivalent to the general public resulting from the operation of WBN is insignificant when compared to the dose from natural background radiation. The results from each environmental sample are compared with the concentrations from the corresponding control stations and appropriate preoperational and background data to determine influences from the plant. During this report period, Cs-137 was detected in shoreline sediment, soil, and fish collected for the WBN program. The concentrations measured were consistent with levels measured during the preoperational monitoring program.

The low levels of tritium detected in the onsite ground water monitoring well and the radionuclides measured in samples of sediment from the Yard Holding Pond were not included

in the assessment of doses from environmental radiation. These radionuclides were limited to the owner controlled area and would not present an exposure pathway for the general public.

Conclusions

It is concluded from the above analysis of environmental samples and from the trend plots presented in Appendix H, that exposure to members of the general public which may have been attributable to WBN is negligible. The radioactivity reported herein is primarily the result of fallout or natural background. Any activity which may be present in the environment as a result of plant operations does not represent a significant contribution to the exposure of Members of the Public.

REFERENCES

1. Merrill Eisenbud, Environmental Radioactivity, Academic Press, Inc., New York, NY, 1987.
2. National Council on Radiation Protection and Measurements, Report No. 93, "Ionizing Radiation Exposure of the Population of the United States," September 1987.
3. United States Nuclear Regulatory Commission, Regulatory Guide 8.29, "Instruction Concerning Risks from Occupational Radiation Exposure," July 1981.

Table 1
COMPARISON OF
PROGRAM LOWER LIMITS OF DETECTION WITH THE REGULATORY LIMITS FOR
MAXIMUM ANNUAL AVERAGE EFFLUENT CONCENTRATIONS
RELEASED TO UNRESTRICTED AREAS
AND REPORTING LEVELS

	<u>Concentrations in Water, pCi/Liter</u>			<u>Concentrations in Air, pCi/Cubic Meter</u>		
	<u>Effluent</u> <u>Concentration¹</u>	<u>Reporting</u> <u>Level²</u>	<u>Lower limit</u> <u>of Detection³</u>	<u>Effluent</u> <u>Concentration¹</u>	<u>Reporting</u> <u>Level²</u>	<u>Lower limit</u> <u>of Detection³</u>
H-3	1,000,000	20,000	300	100,000		
Cr-51	500,000		45	30,000		0.02
Mn-54	30,000	1,000	5	1,000		0.005
Co-58	20,000	1,000	5	1,000		0.005
Co-60	3,000	300	5	50		0.005
Zn-65	5,000	300	10	400		0.005
Sr-89	8,000		5	1,000		0.0011
Sr-90	500		2	6		0.0004
Nb-95	30,000	400	5	2,000		0.005
Zr-95	20,000	400	10	400		0.005
Ru-103	30,000		5	900		0.005
Ru-106	3,000		40	20		0.02
I-131	1,000	2	0.4	200	0.9	0.03
Cs-134	900	30	5	200	10	0.005
Cs-137	1,000	50	5	200	20	0.005
Ce-144	3,000		30	40		0.01
Ba-140	8,000	200	25	2,000		0.015
La-140	9,000	200	10	2,000		0.01

Note: 1 pCi = 3.7×10^{-2} Bq.

Note: For those reporting levels that are blank, no value is given in the reference.

1 Source: Table 2 of Appendix B to 10 CFR 20.1001-20.2401

2 Source: WBN Offsite Dose Calculation Manual, Table 2.3-2

3 Source: Table E-1 of this report.

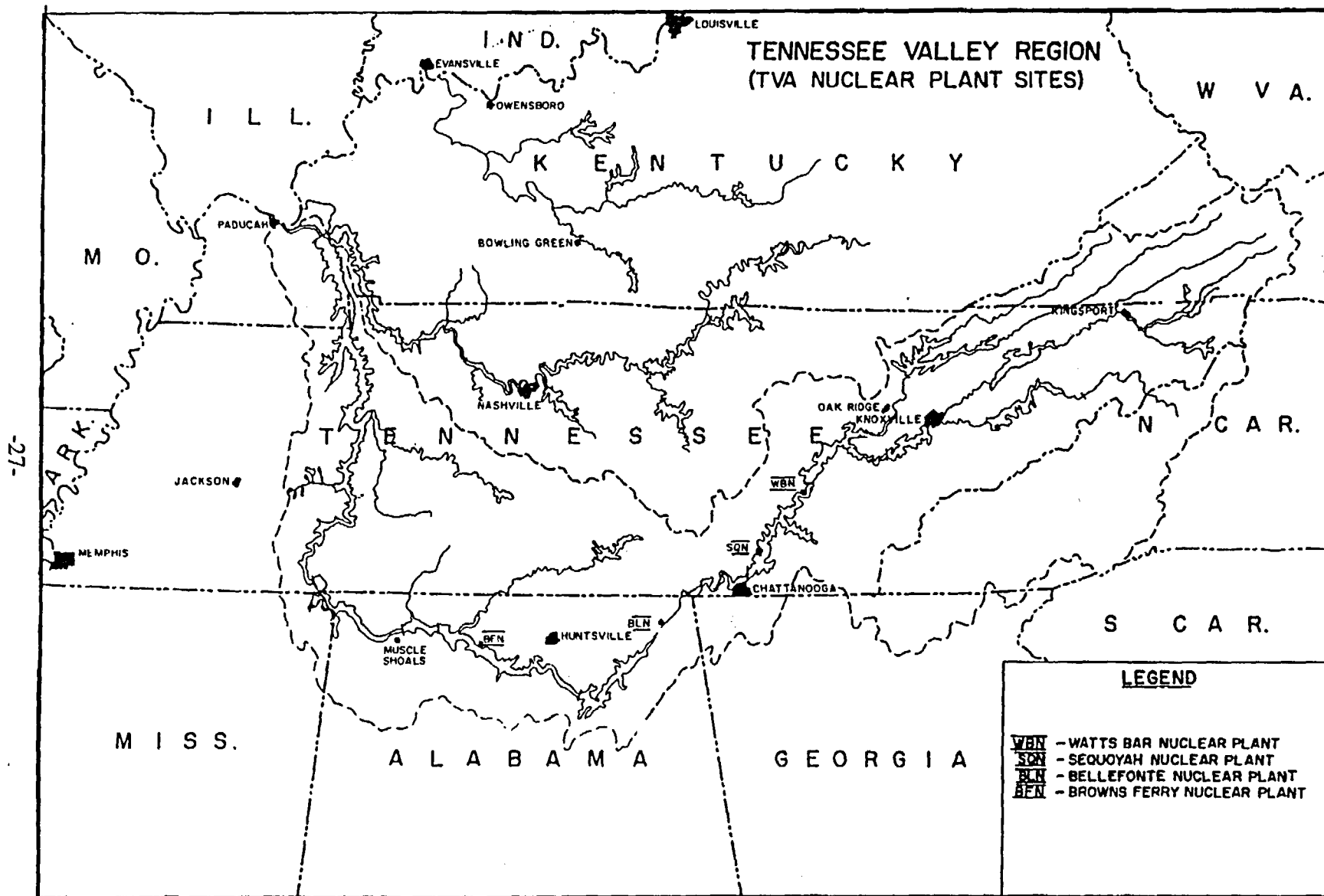
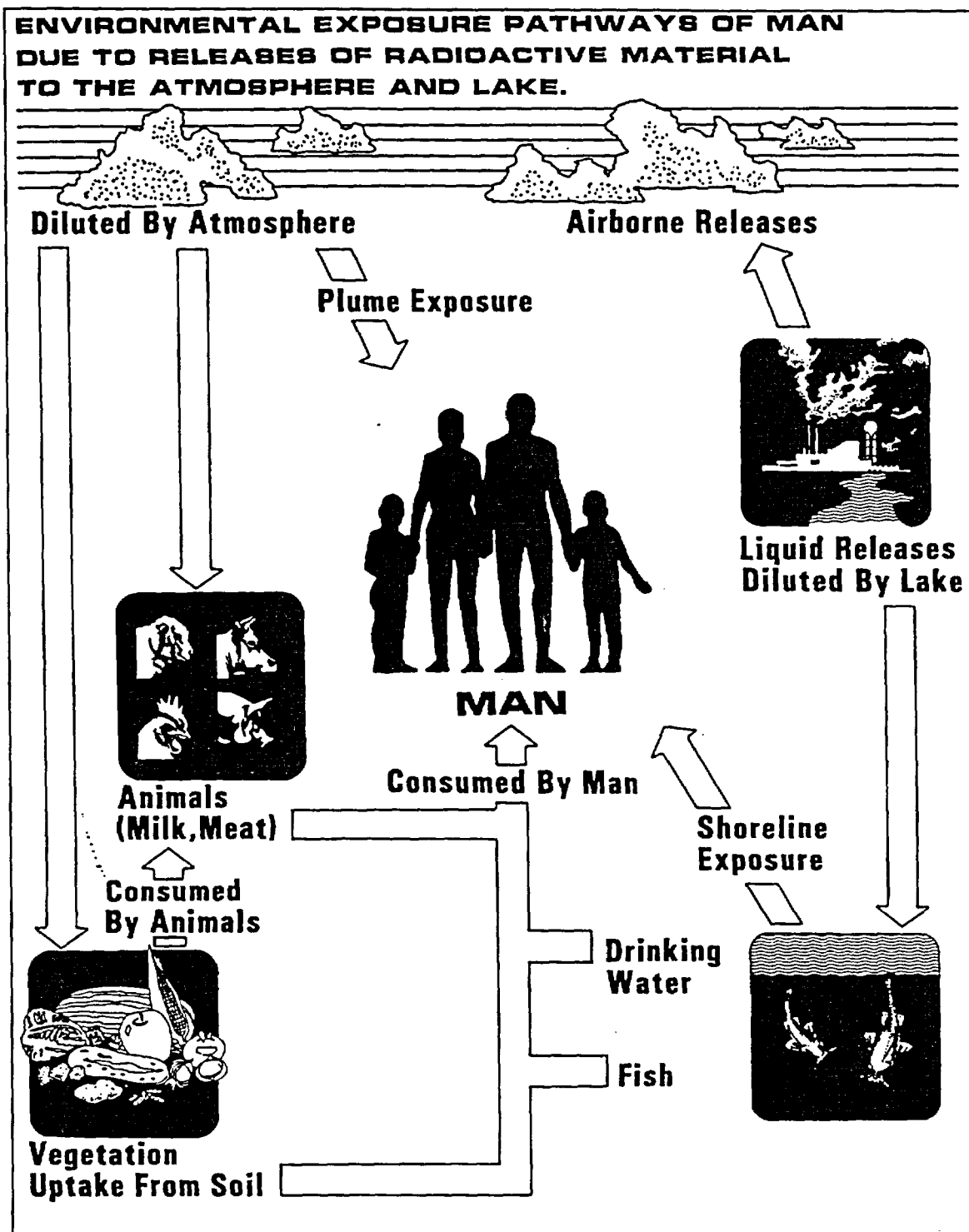


Figure 1

Figure 2



APPENDIX A

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM AND
SAMPLING LOCATIONS

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
1. AIRBORNE			
a. Particulates	<p>4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4).</p> <p>4 samples from communities approximately 6-10 miles from the plant (PM-2, 3, 4, and 5).</p> <p>2 samples from control locations greater than 10 miles from the plant (RM-2 and 3).</p>	Continuous sampler operation with sample collection weekly (more frequently if required by dust loading).	Analyze for gross beta radioactivity greater than or equal to 24 hours following filter change. Perform gamma isotopic analysis on each sample if gross beta is greater than 10 times yearly mean of control sample. Composite at least once per 31 days (by location) for gamma scan.
b. Radioiodine	Samples from same locations as air particulates.	Continuous sampler operation with filter collection weekly.	I-131 at least once per 7 days. Analysis is performed by gamma spectroscopy.
c. Rainwater	Samples from same locations as air particulates.	Rainwater collected continuously with composite sample taken monthly.	Analyzed for gamma activity only if radioactivity in other media indicates the presence of increased levels of fallout.
d. Soil	Samples from same locations as air particulates.	Once per year.	Gamma scan, Sr-89, Sr-90 once per year.

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
2. DIRECT	<p>2 or more dosimeters (TLDs) placed at or near the site boundary in each of the 16 sectors.</p> <p>2 or more dosimeters placed at stations located approximately 5 miles from the plant in each of the 16 sectors.</p> <p>2 or more dosimeters in at least 8 additional locations of special interest, including at least 2 control stations.</p>	At least once per 92 days.	Gamma dose at least once per 92 days.
3. WATERBORNE			
a. Surface	<p>2 samples downstream from plant discharge (TRM 517.9 and TRM 523.1).</p> <p>1 sample at a control location upstream from plant discharge (TRM 529.3).</p>	Collected by automatic sequential-type sampler ^c with composite samples collected over a period of approximately 31 days.	Gross beta and gamma scan of each composite sample. Composite for tritium analysis at least once per 92 days.
b. Ground	One sample adjacent to plant (well No. 1).	Collected by automatic sequential-type sampler ^c with composite samples collected over a period of approximately 31 days.	Composited for gross beta, gamma scan, and tritium at least once per 92 days.

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
b. Ground (Continued)	1 sample from ground water source up gradient (well No. 5).	Same as well No. 1.	Gross beta, gamma scan, and tritium at least once per 92 days.
	1 sample from ground water source up gradient (Farm L).	Grab sample at least once per 92 days.	Same as above
c. Drinking	1 sample at the first two potable surface water supplies, downstream from the plant (TRM 503.8 and TRM 473.0).	Collected by automatic sequential-type sampler ^c with composite sample collected monthly.	Gross beta and gamma scan on each composite. Quarterly composite also analyzed for tritium.
	1 sample at a control location TRM529.3 ^d .		

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
d. Sediment from shoreline.	1 sample downstream from plant Discharge (TRM 513.0). 1 sample from a control location upstream from plant discharge (TRM 530.2).	At least once per 184 days.	Gamma scan of each sample.
e. Pond Sediment	1 sample from at least three locations in the Yard Holding Pond.	At least once per year.	Gamma scan of each sample.
5. INGESTION			
a. Milk	3 samples from farms and/or dairies in the immediate vicinity of the plant. 1 or more samples from control locations.	Every 2 weeks.	I-131 and gamma analysis on each sample. Sr-89 and Sr-90 once per quarter.
b. Fish	One sample of commercially important species and one sample of recreationally important species. One sample of each species from Chickamauga and Watts Bar Reservoirs.	At least once per 184 days.	Gamma scan on edible portions.

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Vegetation ^c (Pasturage and grass)	Samples from farms producing milk but not providing a milk sample.	At least once per 31 day.	I-131 analysis and gamma scan of each sample.
d. Food Products	1 sample each of principal food products grown at private gardens and/or farms in the immediate vicinity of the plant.	Annually at time of harvest. The types of foods available for sampling will vary. Following is a list of typical foods which may be available: Cabbage, Lettuce and/or Greens Corn Green Beans Potatoes Tomatoes	Gamma scan on edible portion.

-
- a. The sampling program outlined in this table is that which was in effect at the end of 2002.
b. Sample locations are shown on Figures A-1, A-2, A-3.
c. Samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.
d. The samples collected at TRMs 503.8 and 473.0 are taken from the raw water supply, therefore, the upstream surface water sample will be considered the control sample for drinking water.
e. Vegetation sampling is applicable only for farms that meet the criteria for milk sampling and when milk sampling cannot be performed.

Table A-2
WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
SAMPLING LOCATIONS

Map Location Number ^a	Station	Sector	Approximate Distance (Miles)	Indicator (I) or Control (C)	Samples Collected ^b
2	PM-2	NW	7.0	I	AP,CF,R,S
3	PM-3	NNE	10.4	I	AP,CF,R,S
4	PM-4	NE/ENE ^c	7.6	I	AP,CF,R,S
5	PM-5	S	8.0	I	AP,CF,R,S
6	RM-2	SW	15.0	C	AP,CF,R,S
7	RM-3	NNW	15.0	C	AP,CF,R,S
8	LM-1	SSW	0.5	I	AP,CF,R,S
9	LM-2	NNE	0.4	I	AP,CF,R,S
10	LM-3	NNE	1.9	I	AP,CF,R,S
11	LM-4	SE	0.9	I	AP,CF,R,S
12	Farm L	SSW	1.3	I ^d	M,W
15	Farm B	E	15.0	C	M
18	Well #1	S	0.6	I	W
19	Farm Mu	ESE	3.7	I	M
20	Farm N	ESE	4.1	I	M
22	Farm EH	SSW	24.0	C	M
23	Well #5	N	0.5	C	W
25	TRM 517.9	--	9.9 ^e	I	SW
26	TRM 523.1	--	4.7 ^e	I	SW
27	TRM 529.3	--	1.5 ^e	C	SW,PW ^f
31	TRM 473.0 (C. F. Industries)	--	54.8 ^e	I	PW
32	TRM 513.0	--	14.8 ^e	I	SS
33	TRM 530.2	--	2.4 ^e	C	SS
35	TRM 503.8 (Dayton)	--	24.0 ^e	I	PW
38	Chickamauga Reservoir			I	F
39	Watts Bar Reservoir			C	F
81	Yard Pond	SSE/S/SSW	Onsite	I	PS

a. See Figures A-1, A-2, and A-3

b. Sample codes:

AP = Air particulate filter

CF = Charcoal filter

F = Fish

M = Milk

PW = Public Water

PS = Pond Sediment

R = Rainwater

S = Soil

SS = Shoreline sediment

SW = Surface water

W = Well water

c. Station located on the boundary between these two sectors.

d. A control for well water.

e. Distance from the plant discharge (TRM 527.8)

f. The surface water sample is also used as a control for public water.

Table A-3
WATTS BAR NUCLEAR PLANT
THERMOLUMINESCENT DOSIMETER (TLD) LOCATIONS

Map ^a Location Number	Station	Sector	Approximate Distance (miles)	Onsite (On) ^b or Offsite (Off)
2	NW-3	NW	7.0	Off
3	NNE-3	NNE	10.4	Off
4	ENE-3	NE/ENE	7.6	Off
5	S-3	S	7.8	Off
6	SW-3	SW	15.0	Off
7	NNW-4	NNW	15.0	Off
10	NNE-1A	NNE	1.9	On
11	SE-1A	SE	0.9	On
12	SSW-2	SSW	1.3	On
14	W-2	W	4.8	Off
15	E-3	E	15.0	Off
40	N-1	N	1.2	On
41	N-2	N	4.7	Off
42	NNE-1	NNE	1.2	On
43	NNE-2	NNE	4.1	Off
44	NE-1	NE	0.9	On
45	NE-2	NE	2.9	Off
46	NE-3	NE	6.1	Off
47	ENE-1	ENE	0.7	On
48	ENE-2	ENE	5.8	Off
49	E-1	E	1.3	On
50	E-2	E	5.0	Off
51	ESE-1	ESE	1.2	On
52	ESE-2	ESE	4.4	Off
54	SE-2	SE	5.3	Off
55	SSE-1A	SSE	0.6	On
56	SSE-2	SSE	5.8	Off
57	S-1	S	0.7	On
58	S-2	S	4.8	Off
59	SSW-1	SSW	0.8	On
60	SSW-3	SSW	5.0	Off
62	SW-1	SS	0.8	On
63	SW-2	SW	5.3	Off
64	WSW-1	WSW	0.9	On
65	WSW-2	WSW	3.9	Off
66	W-1	W	0.9	On
67	WNW-1	WNW	0.9	On
68	WNW-2	WNW	4.9	Off
69	NW-1	NW	1.1	On
70	NW-2	NW	4.7	Off
71	NNW-1	NNW	1.0	On
72	NNW-2	NNW	4.5	Off
73	NNW-3	NNW	7.0	Off
74	ENE-2A	ENE	3.5	Off
75	SE-2A	SE	3.1	Off
76	S-2A	S	2.0	Off
77	W-2A	W	3.2	Off
78	NW-2A	NW	3.0	Off
79	SSE-1	SE	0.5	On

a. See Figures A-1, A-2, and A-3.

b. TLDs designated "onsite" are located 2 miles or less from the plant; "offsite" are located more than 2 miles from the plant.

Figure A-1

Radiological Environmental Sampling Locations

Within 1 Mile of the Plant

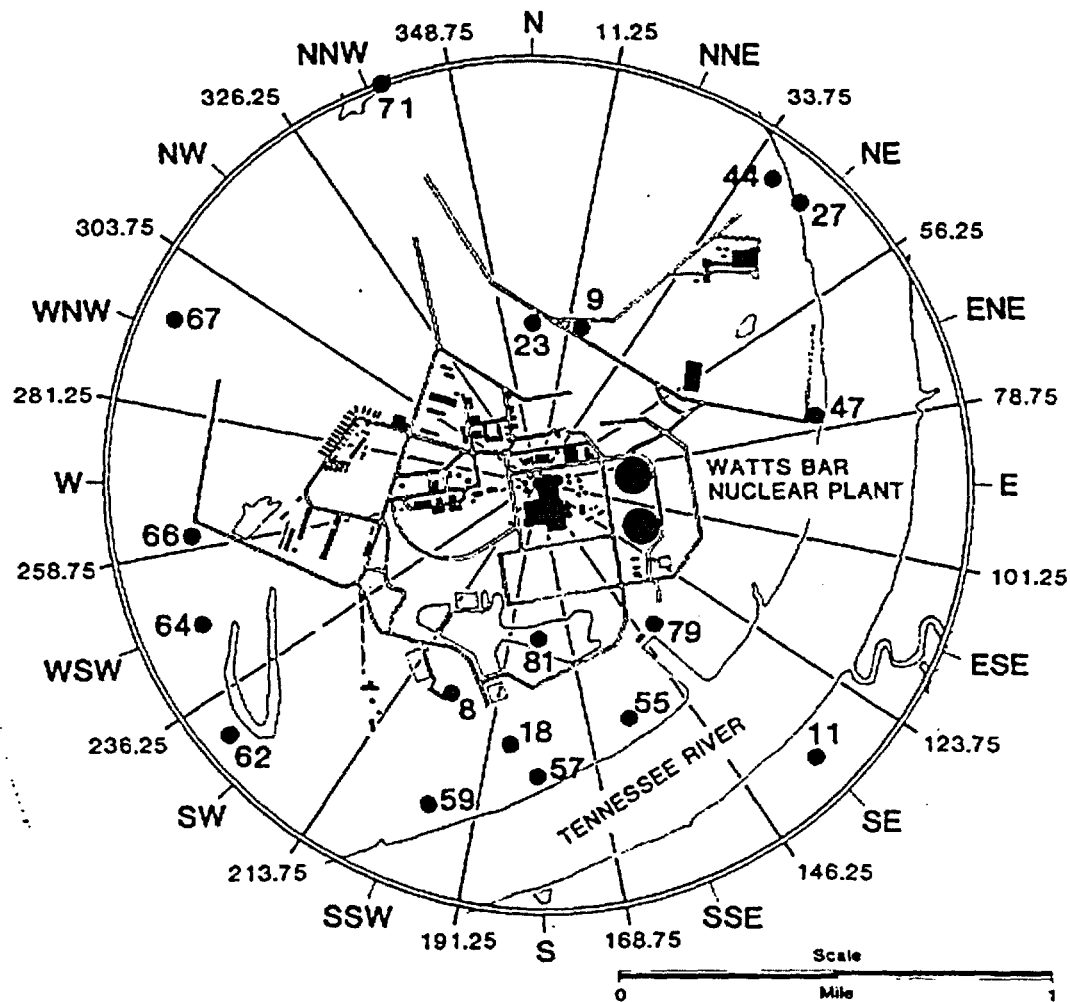


Figure A-2

Radiological Environmental Sampling Locations

From 1 to 5 Miles From The Plant

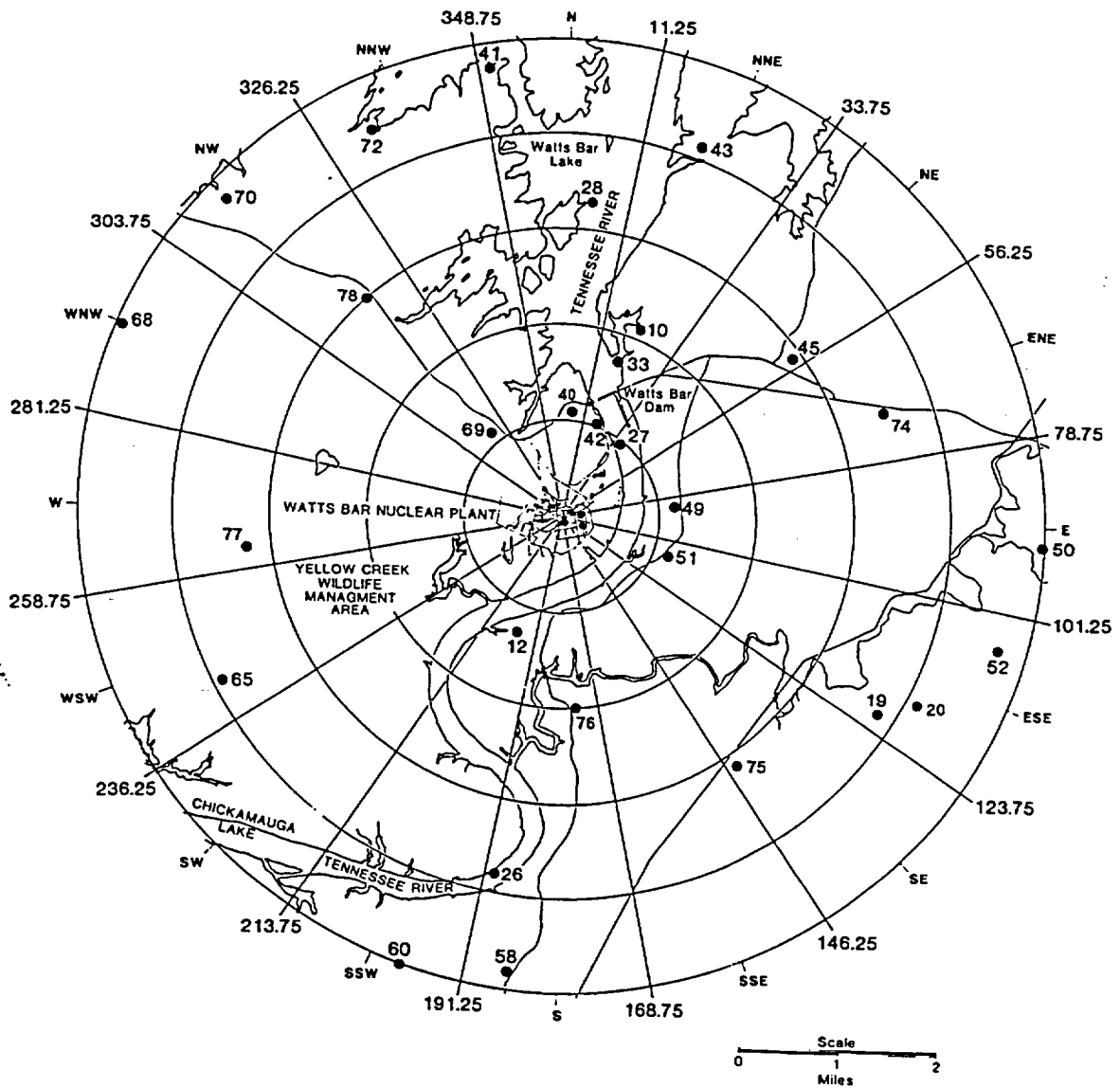
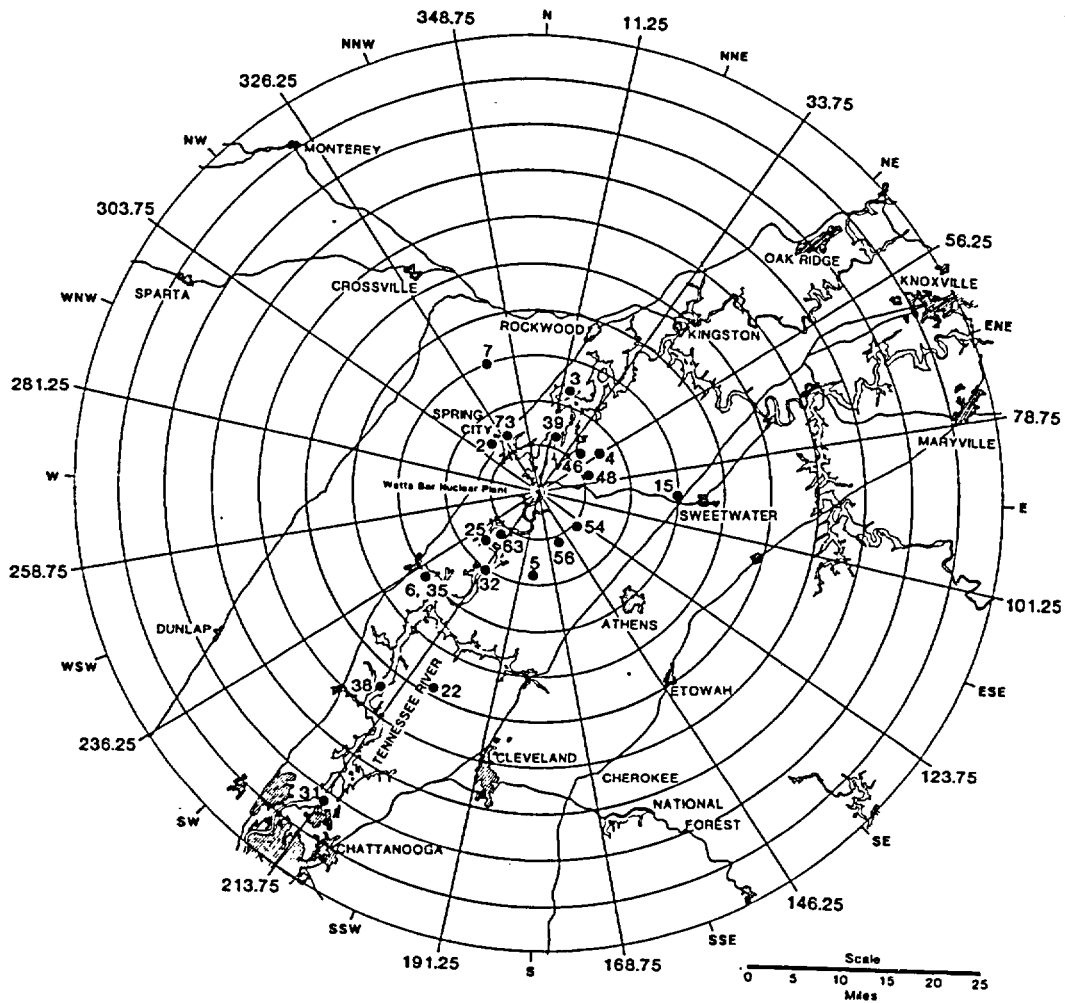


Figure A-3
Radiological Environmental Sampling Locations
Greater Than 5 Miles From the Plant



APPENDIX B
2002 PROGRAM MODIFICATIONS

Appendix B

Radiological Environmental Monitoring Program Modification

There were no modifications made to the WBN REMP during 2002 that involved changes in the type, frequency or location of sample collection and there were no changes in the analyses performed. In June 2002, GPS technology was used to determine the locations for REMP monitoring locations. A small number of discrepancies were identified between the distance and direction as determined using the GPS and the location description contained in the ODCM. These discrepancies were documented in the TVA Nuclear Corrective Action Program (PER 02-000189-000).

The location for air monitoring Station LM-1 was listed in the ODCM as 0.5 miles N. The GPS determined location was 0.4 miles NNE. The sector location difference was less than two degrees. The location description for this monitor was changed to 0.4 miles NNE. A discrepancy in the location for the SSE sector site boundary environmental TLD location was also identified. The TLD was actually located in the SE sector by less than two degrees. This TLD location had been identified as SSE-1. To maintain the continuity of data collected for this TLD location, a new TLD location was added in the SSE sector and is identified as SSE-1A located at 0.6 miles SSE. The location description for SSE-1 was revised to 0.6 miles SE.

The distance for TLD location S-3 was corrected from 6.2 miles to 7.8 miles and the sector of TLD location ENE-3 was modified from ENE to NE/ENE. This modification was made to indicate that the TLD location is on the sector boundary.

Table A-2, and A-3 and Figure A-1 of this report were revised as applicable to reflect these corrections.

APPENDIX C
PROGRAM DEVIATIONS

Appendix C

Program Deviations

During 2002, problems with sampling equipment resulted in sample unavailability or inadequate sample volumes for five sets of air particulate filter and charcoal cartridge samples and one surface water sample. In addition, the I-131 analysis for one milk sample could not be completed due to problems during the analysis.

Table C-1 provides additional details of these program deviations.

Table C-1

Radiological Environmental Monitoring Program Deviations

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
02/19/02	Farm L	1.3 miles SSW	The I-131 analysis could not be completed on the milk sample from this farm due to problems during the chemical separation. The gamma isotopic analysis of the sample identified only naturally occurring radionuclides.
02/19/02 - 02/26/02	LM-3	1.9 miles NNE	The air filter and charcoal cartridge samples scheduled for collection from this location on 02/19/02 and 02/26/02 were not collected due to problems with the sampling pump. The problem was identified due to a low sample volume for the 02/19/02 sampling period but a replacement pump was not installed in time to provide adequate sample volume for the 02/26/02 sampling period. The failure to complete the repairs in time was documented in the Corrective Action Program.
03/19/02	RM-3	15.0 miles NNW	The air filter sample was not suitable for analysis due to perforations in the filter. Vandalism was suspected. Steps were taken to address the suspected vandalism and no additional problems occurred.
05/29/02	TRM 517.9	9.9 miles downstream	Inadequate sample volume was available for the monthly composite sample scheduled for collection on 5/29/02 due to failure of the sampling pump. A replacement sampler was installed and the sample was collected as scheduled for the next sampling period.
10/01/02	LM-4	0.9 miles SE	The air filter and charcoal cartridge samples were not collected due to failure of the drive motor for the sampling pump. Repairs were made and samples were collected for the next sampling period.
12/23/02	RM-3	15.0 miles NNW	The air filter and charcoal cartridge samples were not collected due to a problem with the sampling pump. Repairs were made and samples were collected as scheduled for the next sampling period.

APPENDIX D
ANALYTICAL PROCEDURES

Appendix D

Analytical Procedures

Analyses of environmental samples are performed by the radioanalytical laboratory located at the Western Area Radiological Laboratory facility in Muscle Shoals, Alabama. Analysis procedures are based on accepted methods. A summary of the analysis techniques and methodology follows.

The gross beta measurements are made with an automatic low background counting system. Normal counting times are 50 minutes. Water samples are prepared by evaporating 500 ml of samples to near dryness, transferring to a stainless steel planchet, and completing the evaporation process. Air particulate filters are counted directly in a shallow planchet.

The specific analysis of I-131 in milk is performed by first isolating and purifying the iodine by radiochemical separation and then counting the final precipitate on a beta-gamma coincidence counting system. The normal count time is 50 minutes. With the beta-gamma coincidence counting system, background counts are virtually eliminated and extremely low levels of activity can be detected.

After a radiochemical separation, samples analyzed for Sr-89, 90 are counted on a low background beta counting system. The sample is counted a second time after a 7-day ingrowth period. From the two counts the Sr-89 and Sr-90 concentrations can be determined.

Water samples are analyzed for tritium content by first distilling a portion of the sample and then counting by liquid scintillation. A commercially available scintillation cocktail is used.

Gamma analyses are performed in various counting geometries depending on the sample type and volume. All gamma counts are obtained with germanium type detectors interfaced with a high resolution gamma spectroscopy system. Spectral data reduction is performed by the computer program HYPERMET.

The charcoal cartridges used to sample gaseous radioiodine are analyzed by gamma spectroscopy using a high resolution gamma spectroscopy system with germanium detectors.

The necessary efficiency values, weight-efficiency curves, and geometry tables are established and maintained on each detector and counting system. A series of daily and periodic quality control checks are performed to monitor counting instrumentation. System logbooks and control charts are used to document the results of the quality control checks.

APPENDIX E

NOMINAL LOWER LIMITS OF DETECTION (LLD)

Appendix E

Nominal Lower Limits of Detection

A number of factors influence the LLD, including sample size, count time, counting efficiency, chemical processes, radioactive decay factors, and interfering isotopes encountered in the sample. The most probable values for these factors have been evaluated for the various analyses performed in the environmental monitoring program. The nominal LLDs calculated from these values, in accordance with the methodology prescribed in the ODCM, are presented in Table E-1. The maximum values for the lower limits of detection specified in the ODCM are shown in Table E-2.

The nominal LLDs are also presented in the data tables. For analyses for which nominal LLDs have not been established, an LLD of zero is assumed in determining if a measured activity is greater than the LLD.

TABLE E-1
Nominal LLD Values
A. Radiochemical Procedures

	Air Filters (<u>pCi/m³</u>)	Water (<u>pCi/L</u>)	Milk (<u>pCi/L</u>)	Wet Vegetation (<u>pCi/Kg wet</u>)	Sediment and Soil (<u>pCi/g dry</u>)
Gross Beta	0.002	1.9			
Tritium		300			
Iodine-131		0.4	0.4	6.0	
Strontium-89	0.0011	5.0	3.5	31.0	1.6
Strontium-90	0.0004	2.0	2.0	12.0	0.4

Table E-1
Nominal LLD Values
B. Gamma Analyses

	Particulate Filter <u>pCi/m3</u>	Charcoal Filter <u>pCi/m3</u>	Water and Milk <u>pCi/L</u>	Vegetation and Grain <u>pCi/g, dry</u>	Wet Vegetation <u>pCi/kg, wet</u>	Soil and Sediment <u>pCi/g, dry</u>	Fish <u>pCi/g, dry</u>	Clam Flesh <u>pCi/g, dry</u>	Foods Tomatoes Potatoes, etc. <u>pCi/kg, wet</u>
Ce-141	.005	.02	10	.07	35	.10	.07	.35	20
Ce-144	.01	.07	30	.15	115	.20	.15	.85	60
Cr-51	.02	0.15	45	.30	200	.35	.30	2.40	95
I-131	.005	0.03	10	.20	60	.25	.20	1.70	20
Ru-103	.005	0.02	5	.03	25	.03	.03	.25	25
Ru-106	.02	0.12	40	.15	190	.20	.15	1.25	90
Cs-134	.005	0.02	5	.03	30	.03	.03	.14	10
Cs-137	.005	0.02	5	.03	25	.03	.03	.15	10
Zr-95	.005	0.03	10	.05	45	.05	.05	.45	45
Nb-95	.005	0.02	5	.25	30	.04	.25	.25	10
Co-58	.005	0.02	5	.03	20	.03	.03	.25	10
Mn-54	.005	0.02	5	.03	20	.03	.03	.20	10
Zn-65	.005	0.03	10	.05	45	.05	.05	.40	45
Co-60	.005	0.02	5	.03	20	.03	.03	.20	10
K-40	.04	0.30	100	.40	400	.75	.40	3.50	250
Ba-140	.015	0.07	25	.30	130	.30	.30	2.40	50
La-140	.01	0.04	10	.20	50	.20	.20	1.40	25
Fe-59	.005	0.04	10	.08	40	.05	.08	.45	25
Be-7	.02	0.15	45	.25	200	.25	.25	1.90	90
Pb-212	.005	0.03	15	.04	40	.10	.04	.30	40
Pb-214	.005	0.07	20	.50	80	.15	.50	.10	80
Bi-214	.005	0.05	20	.10	55	.15	.10	.50	40
Bi-212	.02	0.20	50	.25	250	.45	.25	2.00	130
Tl-208	.002	0.02	10	.03	30	.06	.03	.25	30
Ra-224	--	--	--	--	--	.75	--	--	--
Ra-226	--	--	--	--	--	.15	--	--	--
Ac-228	.01	0.07	20	.10	70	.25	.10	.75	50

Table E-2

Maximum Values for the Lower Limits of Detection (LLD)
Specified by the WBN Offsite Dose Calculation Manual

<u>Analysis</u>	<u>Water pCi/L</u>	<u>Airborne Particulate or Gases pCi/m³</u>	<u>Fish pCi/kg. wet</u>	<u>Milk pCi/L</u>	<u>Food Products pCi/kg. wet</u>	<u>Sediment pCi/kg. dry</u>
gross beta	4	1×10^{-2}	N.A.	N.A.	N.A.	N.A.
H-3	2000 ^a	N.A.	N.A.	N.A.	N.A.	N.A.
Mn-54	15	N.A.	130	N.A.	N.A.	N.A.
Fe-59	30	N.A.	260	N.A.	N.A.	N.A.
Co-58,60	15	N.A.	130	N.A.	N.A.	N.A.
Zn-65	30	N.A.	260	N.A.	N.A.	N.A.
Zr-95	30	N.A.	N.A.	N.A.	N.A.	N.A.
Nb-95	15	N.A.	N.A.	N.A.	N.A.	N.A.
I-131	1 ^b	7×10^{-2}	N.A.	1	60	N.A.
Cs-134	15	5×10^{-2}	130	15	60	150
Cs-137	18	6×10^{-2}	150	18	80	180
Ba-140	60	N.A.	N.A.	60	N.A.	N.A.
La-140	15	N.A.	N.A.	15	N.A.	N.A.

a. If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

b. If no drinking water pathway exists, a value of 15 pCi/liter may be used.

APPENDIX F

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Appendix F

Quality Assurance/Quality Control Program

A thorough quality assurance program is employed by the laboratory to ensure that the environmental monitoring data are reliable. This program includes the use of written, approved procedures in performing the work, a complete training and qualification process, internal self assessments of program performance, audits by various external organizations, and a laboratory quality control program.

The quality control program employed by the radioanalytical laboratory is designed to ensure that the sampling and analysis process is working as intended. The program includes equipment checks and the analysis of quality control samples along with routine samples.

Radiation detection devices can be tested in a number of ways. There are two primary tests which are performed on all devices. In the first type, the device is operated without a sample on the detector to determine the background count rate. The background counts are usually low values and are due to machine noise, cosmic rays, trace amounts of radioactivity in the materials used to construct the detector, or terrestrial sources. Charts of background counts are kept and monitored to ensure that no unusually high or low values are encountered.

In the second test, the device is operated with a known amount of radioactivity present. The number of counts registered from such a radioactive standard should be very reproducible. These reproducibility checks are also monitored to ensure that they are neither higher nor lower than expected. When counts from either test fall outside the expected range, the device is inspected for malfunction or contamination. It is not placed into service until it is operating properly.

In addition to these two general checks, other quality control checks are performed on the variety of detectors used in the laboratory. The exact nature of these checks depends on the type of device and the method it uses to detect radiation or store the information obtained.

Quality control samples of a variety of types are used by the laboratory to verify the performance of different portions of the analytical process. These quality control samples may be blanks, replicate samples, blind samples, or cross-checks.

Blanks are samples which contain no measurable radioactivity or no activity of the type being measured. Such samples are analyzed to determine whether there is any contamination of equipment or commercial laboratory chemicals, cross-contamination in the chemical process, or interference from isotopes other than the one being measured.

Duplicate samples are generated at random by the sample computer program which schedules the collection of the routine samples. For example, if the routine program calls for four milk samples every week, on a random basis each farm might provide an additional sample several times a year. These duplicate samples are analyzed along with other routine samples. They provide information about the variability of radioactive content in the various sample media.

If enough sample is available for a particular analysis, the laboratory personnel can split it into two portions. Such a sample can provide information about the variability of the analytical process since two identical portions of material are analyzed side by side.

Analytical knowns are another category of quality control sample. A known amount of radioactivity is added to a sample medium. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, the lab staff has immediate knowledge of the quality of the measurement process. A portion of these samples are also blanks.

Blind spikes are samples containing radioactivity which are introduced into the analysis process disguised as ordinary environmental samples. The lab staff does not know the samples contain radioactivity. Since the bulk of the ordinary workload of the environmental

laboratory contains no measurable activity or only naturally occurring radioisotopes, blind spikes can be used to test the detection capability of the laboratory or they can be used to test the data review process. If an analysis routinely generates numerous zeroes for a particular isotope, the presence of a positive result will be brought to the attention of the laboratory supervisor in the daily review process. Blind spikes test this process since they contain radioactivity at levels high enough to be detected. Furthermore, the activity can be put into such samples at the extreme limit of detection (near the LLD) to determine whether or not the laboratory can find any unusual radioactivity whatsoever.

At present, 5 percent of the laboratory workload is in the category of internal cross-checks. These samples have a known amount of radioactivity added and are presented to the lab staff labeled as cross-check samples. This means that the quality control staff knows the radioactive content or "right answer" but the personnel performing the analyses do not. They are aware they are being tested. Such samples test the best performance of the laboratory by determining if the staff can find the "right answer". These samples provide information about the accuracy of the measurement process. Further information is available about the variability of the process if multiple analyses are requested on the same sample. Like blind spikes or analytical knowns, these samples can also be spiked with low levels of activity to test detection limits. During 2002, all analysis results for internal cross-check samples were within agreement limits when compared to the known value.

To provide for interlaboratory comparison program cross-check samples, the laboratory participated in an environmental level cross-check program available through Analytics Incorporated. The results of TVA's participation in this program are presented in Table F-1.

TVA splits certain environmental samples with laboratories operated by the States of Alabama and Tennessee and the EPA National Air and Radiation Environmental Laboratory in Montgomery, Alabama. When radioactivity has been present in the environment in measurable quantities, such as following atmospheric nuclear weapons testing, following the Chernobyl incident, or as naturally occurring radionuclides, the split samples have provided TVA with yet another level of information about laboratory performance. These samples demonstrate performance on actual environmental sample matrices rather than on the constructed matrices used in cross-check programs.

Quality control data are routinely collected, examined, and reported to laboratory supervisory personnel. They are checked for trends, problem areas, or other indications that a portion of the analytical process needs correction or improvement. The end results is a measurement process that provides reliable and verifiable data and is sensitive enough to measure the presence of radioactivity far below the levels which could be harmful to humans.

Table F-1

Results For 2002 External Cross Checks

<u>Test Period</u>	<u>Sample Type / Analysis</u>	<u>Results</u>		<u>Agreement Range</u>		
		<u>Known</u>	<u>TVA</u>			
First Quarter	Water (pCi/L) Gross Beta	287	300	244	-	330
First Quarter	Charcoal Filter (pCi/Filter) ¹³¹ I	77	73	54	-	100
First Quarter	Water (pCi/L)					
	¹³¹ I	61	65	43	-	79
	¹⁴¹ Ce	242	237	206	-	278
	⁵¹ Cr	198	204	139	-	157
	¹³⁴ Cs	91	85	77	-	105
	¹³⁷ Cs	197	203	167	-	227
	⁵⁸ Co	0	0	-15	-	15
	⁵⁴ Mn	166	175	141	-	191
	⁵⁹ Fe	86	84	71	-	101
	⁶⁵ Zn	164	162	115	-	213
	⁶⁰ Co	117	116	99	-	135
First Quarter	Water (pCi/L)					
	⁸⁹ Sr	82	79	67	-	97
	⁹⁰ Sr	71	67	56	-	86
Third Quarter	Water (pCi/L)					
	³ H	11967	12214	8377	-	15557
Third Quarter	Sand (pCi/g)					
	¹⁴¹ Ce	0.266	0.246	0.226	-	0.306
	⁵¹ Cr	0.378	0.398	0.265	-	0.491
	¹³⁴ Cs	0.219	0.222	0.186	-	0.252
	¹³⁷ Cs	0.211	0.201	0.179	-	0.243
	⁵⁸ Co	0.162	0.162	0.138	-	0.186
	⁵⁴ Mn	0.254	0.259	0.216	-	0.292
	⁵⁹ Fe	0.148	0.155	0.126	-	0.170
	⁶⁵ Zn	0.313	0.282	0.219	-	0.407
	⁶⁰ Co	0.247	0.251	0.210	-	0.284
Third Quarter	Air Filter (pCi/Filter) Gross Beta	74.0	69.0	59.0	-	89.0
Third Quarter	Air Filter (pCi/Filter)					
	¹⁴¹ Ce	111.0	104.0	94.4	-	127.7
	⁵¹ Cr	159.0	137.0	111.3	-	206.7
	¹³⁴ Cs	92.0	93.0	77.0	-	107.0
	¹³⁷ Cs	88.0	82.0	74.8	-	101.2
	⁵⁸ Co	68.0	66.0	53.0	-	83.0
	⁵⁴ Mn	106.0	109.0	91.0	-	121.09
	⁵⁹ Fe	62.0	67.0	47.0	-	77.0
	⁶⁵ Zn	131.0	140.0	91.7	-	170.3
	⁶⁰ Co	104.0	98.0	88.4	-	119.6

APPENDIX G

LAND USE SURVEY

Appendix G

Land Use Survey

A land use survey was conducted in accordance with the provisions of ODCM Control 1.3.2 to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant.

The land use survey was conducted between April 1 and October 1 using appropriate techniques such as door-to-door survey, mail survey, telephone survey, aerial survey, or information from local agricultural authorities or other reliable sources.

From the data of the surveys, relative radiation doses were projected for individuals near the plant. Doses from air submersion were calculated for the nearest resident in each sector, while doses from drinking milk or eating foods produced near the plant were calculated for the areas with milk producing animals and gardens, respectively. These doses were calculated using design basis source terms and historical meteorological data. They also assume that the effluent releases are equivalent to the design basis source terms. The calculated doses are relative in nature and do not reflect actual exposures received by individuals living near WBN.

In response to the 2002 WBN land use survey, annual doses were calculated for air submersion, vegetable ingestion, and milk ingestion. There was a change in the location of the nearest resident in the NW sector resulting in an increase in calculated dose to this location as compared to 2001. There were no other changes in the locations for the nearest resident.

Doses calculated for ingestion of home grown foods changed in one sector compared to the results calculated in 2001 due to a change in the location of the nearest garden.

For milk ingestion, projected doses were consistent with those calculated for 2001. Except for the farm where the owner does not want to participate in the program (Farm Ho), milk samples are being collected from the three farms where the calculated doses are highest. One of the farms providing a milk sample is between Farm Ho and the plant.

The results of the 2002 land use survey and resulting relative projected annual dose calculations documented that there were no significant changes in land use of unrestricted areas. No required changes in the sampling locations for the radiological environmental monitoring program were identified as result of the land use survey.

Tables G-1, G-2, and G-3 compare results of the relative projected annual dose calculations for 2001 and 2002.

Table G-1

Watts Bar Nuclear Plant
Relative Projected Annual Air Submersion Dose to the Nearest Residence
Within 5 Miles of Plant^a

mrem/year

<u>Sector</u>	<u>2001</u>		<u>2002</u>	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	1.3	0.24	1.3	0.24
NNE	2.3	0.20	2.3	0.20
NE	2.1	0.19	2.1	0.19
ENE	1.5	0.31	1.5	0.31
E	2.0	0.18	2.0	0.18
ESE	2.8	0.12	2.8	0.12
SE	0.9	0.76	0.9	0.76
SSE	1.0	0.38	1.0	0.38
S	1.0	0.37	1.0	0.37
SSW	1.2	0.29	1.2	0.29
SW	2.7	0.09	2.7	0.09
WSW	1.3	0.38	1.3	0.38
W	1.8	0.07	1.8	0.07
WNS	1.0	0.17	1.0	0.17
NW	1.9	0.04	1.3	0.09
NNW	2.7	0.03	2.7	0.03

a. Assumes the effluent releases are equivalent to design basis source terms.

Table G-2

Watts Bar Nuclear Plant
 Relative Projected Annual Ingestion Dose to Child's Bone
 Organ from Ingestion of Home-Grown Foods
 Nearest Garden Within 5 Miles of Plant^a

mrem/year

<u>Sector</u>	<u>2001</u>		<u>2002</u>	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	4.8	0.50	4.8	0.50
NNE	3.8	1.68	3.8	1.68
NE	2.4	3.36	2.4	3.36
ENE	3.0	1.98	3.0	1.98
E	5.0	0.83	5.0	0.83
ESE	3.0	2.25	3.0	2.25
SE	2.9	2.17	2.9	2.17
SSE	1.3	5.92	3.1	1.40
S	3.1	1.41	3.1	1.41
SSW	1.4	5.46	1.4	5.46
SW	B		b	
WSW	2.9	1.73	2.9	1.73
W	3.2	0.59	3.2	0.59
WNW	3.6	0.26	3.6	0.26
NW	2.0	0.76	2.0	0.76
NNW	2.9	0.02	2.9	0.62

- a. Assumes the effluent releases are equivalent to design basis source terms.
 b. Garden not identified within 5 miles of the plant in this sector.

Table G-3

Watts Bar Nuclear Plant
Relative Projected Annual Dose to Receptor Thyroid from Ingestion of Milk^a
(Nearest Milk-Producing Animal Within 5 Miles of Plant)

mrem/year

<u>Location</u>	<u>Sector</u>	Approximate Distance	<u>Annual Dose</u>		<u>X/Q</u> <u>s/m³</u>
		<u>Miles</u>	<u>2001</u>	<u>2002</u>	
<u>Cows</u>					
Farm Mu ^b	ESE	3.7	0.08	0.08	1.14 E-6
Farm N ^b	ESE	4.1	0.04	0.04	9.44 E-7
Farm L ^b	SSW	1.3	0.27	0.27	2.36 E-6
Farm Ho ^c	SSW	1.5	0.33	0.33	1.43 E-6
Farm S	NW	4.9	0.01	0.01	1.26 E-7

-
- a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
b. Milk being sampled at these locations.
c. Owner unwilling to provide samples or information. The dose calculated assumes consumption of the milk by an adult and a feeding factor equivalent to 33 percent. If milk from this location were to be consumed by teens, children or infants, the estimated doses would be 0.52, 1.07 and 2.53 mrem/year, respectively.

APPENDIX H
DATA TABLES AND FIGURES

Table H - 1

DIRECT RADIATION LEVELS

Average External Gamma Radiation Levels at Various Distances from
Watts Bar Nuclear Plant for Each Quarter - 2002
mR / Quarter (a)

Distance miles	Average External Gamma Radiation Levels (b)				per annum mR / yr
	1st qtr	2nd qtr	3rd qtr	4th qtr	
0 - 1	16.8 ± 2.3	17.1 ± 2.3	17.4 ± 2.4	15.8 ± 2.3	67
1 - 2	14.5 ± 1.6	15.0 ± 1.2	15.5 ± 1.8	14.2 ± 1.4	59
2 - 4	14.1 ± 1.3	14.8 ± 1.3	15.1 ± 1.3	14.0 ± 1.4	58
4 - 6	14.7 ± 1.8	15.3 ± 1.6	15.6 ± 1.9	14.3 ± 1.6	60
> 6	13.7 ± 1.9	14.4 ± 1.9	14.4 ± 2.3	13.3 ± 2.0	56
Average 0 - 2 miles (onsite)	15.9 ± 2.3	16.3 ± 2.2	16.7 ± 2.4	15.2 ± 2.1	64
Average > 2 miles (offsite)	14.3 ± 1.8	15.0 ± 1.7	15.1 ± 2.0	13.9 ± 1.7	58

- (a) Field periods normalized to one standard quarter (2190 hours)
(b) Average of the individual measurements in the set ± 1 standard deviation of the set

TABLE H - 2

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels							
		mR / quarter					
TLD Station Number	Direction, degrees	Approx Distance, miles	1st Qtr Dec - Feb 2001 - 02	2nd Qtr Mar - May 2002	3rd Qtr Jun - Aug 2002	4th Qtr Sep - Nov 2002	Annual Exposure mR/year
N-1	10	1.2	16.6	16.5	18.6	16.6	68.3
N-2	350	4.7	16.2	16.6	16.4	15.3	64.5
NNE-1	21	1.2	16.6	16.6	17.2	15.6	66.0
NNE-1A	22	1.9	12.4	13.5	14.2	12.7	52.8
NNE-2	20	4.1	12.9	14.1	14.2	12.8	54.0
NNE-3	17	10.4	13.6	14.4	14.1	13.2	55.2
NE-1	39	.9	18.8	19.1	19.7	17.6	75.2
NE-2	54	2.9	14.8	(1)	16.0	14.6	60.5
NE-3	47	6.1	11.8	12.4	12.2	11.6	48.0
ENE-1	74	.7	17.3	17.7	17.5	16.5	68.9
ENE-2	69	5.8	13.2	13.7	14.2	13.5	54.7
ENE-2A	69	3.5	11.8	12.7	12.7	11.5	48.7
ENE-3	56	7.6	13.1	14.4	14.2	13.3	55.1
E-1	85	1.3	14.4	14.9	14.7	13.8	57.8
E-2	92	5.0	15.0	16.0	16.9	14.8	62.6
E-3	90	15.0	16.8	18.1	18.4	16.5	69.8
ESE-1	109	1.2	12.3	13.2	12.8	12.5	50.9
ESE-2	106	4.4	16.7	17.7	18.8	16.9	70.1
SE-1A	138	.9	14.1	15.3	14.9	14.0	58.3
SE-2	128	5.3	12.5	13.8	13.5	12.6	52.4
SE-2A	144	3.1	13.7	14.5	15.7	13.7	57.6
SSE-1	156	.6	16.1	16.5	16.3	15.8	64.7
SSE-1A	150	.6	(2)	(2)	(2)	12.5	49.9
SSE-2	156	5.8	15.3	16.1	16.6	14.7	62.7

note 1 Sum of available quarterly data normalized to 1 year for the annual exposure value

note 2 Station was established in the fourth quarter

TABLE H - 2 continued

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels							
mR / quarter							
TLD Station Number	Direction, degrees	Approx Distance, miles	1st Qtr Dec - Feb 2001 - 02	2nd Qtr Mar - May 2002	3rd Qtr Jun - Aug 2002	4th Qtr Sep - Nov 2002	Annual Exposure mR/year
S-1	182	.7	14.9	15.4	15.3	14.4	60.0
S-2	185	4.8	11.8	12.6	12.4	11.5	48.4
S-2A	177	2.0	15.7	16.7	16.5	15.9	64.7
S-3	185	6.2	12.0	13.5	12.7	11.7	49.9
SSW-1	199	.8	19.0	19.1	20.1	18.4	76.7
SSW-2	200	1.3	14.0	14.8	14.9	13.7	57.4
SSW-3	199	5.0	13.0	13.6	13.3	12.8	52.7
SW-1	226	.8	17.7	17.9	18.6	17.0	71.2
SW-2	220	5.3	14.4	15.1	14.4	13.8	57.7
SW-3	225	15.0	13.4	13.5	13.9	12.8	53.7
WSW-1	255	.9	14.5	14.8	15.7	13.7	58.6
WSW-2	247	4.0	16.9	16.8	17.4	16.0	67.0
W-1	270	.9	16.2	16.2	16.4	15.1	63.9
W-2	277	4.8	13.5	13.8	13.4	12.8	53.4
W-2A	268	3.2	15.0	15.5	15.6	14.7	60.8
WNW-1	294	.9	21.7	22.4	22.4	20.6	87.1
WNW-2	292	4.9	17.4	17.6	17.9	16.6	69.4
NW-1	320	1.1	15.4	15.4	16.3	14.8	61.9
NW-2	313	4.7	16.4	16.7	17.4	15.8	66.3
NW-2A	321	3.0	13.9	14.6	14.3	13.3	56.1
NW-3	317	7.0	17.3	17.2	18.5	16.9	69.9
NNW-1	340	1.0	14.1	14.1	14.4	13.5	56.1
NNW-2	333	4.5	15.7	16.0	16.6	15.0	63.3
NNW-3	329	7.0	11.6	12.6	12.3	10.9	47.4
NNW-4	337	15.0	13.3	13.8	13.2	12.6	52.9

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	515	2.00E-03	2.07E-02(413/ 413) PM2 SPRING CITY 1.01E-02- 3.56E-02 7.0 MILES NW	2.13E-02(52/ 52) 1.13E-02- 3.48E-02	1.98E-02(102/ 102) 1.20E-02- 3.36E-02	
GAMMA SCAN (GELI)	130					
AC-228	1.00E-02	1.12E-02(1/ 104) LM3 1.12E-02- 1.12E-02 1.9 MILES NNE		1.12E-02(1/ 13) 1.12E-02- 1.12E-02	26 VALUES < LLD	
BE-7	2.00E-02	9.19E-02(104/ 104) LM-4 WB 5.49E-02- 1.33E-01 0.9 MILES SE		9.68E-02(13/ 13) 6.60E-02- 1.32E-01	9.08E-02(26/ 26) 5.79E-02- 1.29E-01	
BI-214	5.00E-03	1.44E-02(79/ 104) PM3 5.20E-03- 4.32E-02 10.4 MILES NNE		1.81E-02(10/ 13) 5.80E-03- 4.17E-02	1.69E-02(21/ 26) 7.00E-03- 2.77E-02	
PB-214	5.00E-03	1.40E-02(79/ 104) PM3 5.30E-03- 4.94E-02 10.4 MILES NNE		1.75E-02(10/ 13) 6.90E-03- 3.89E-02	1.71E-02(20/ 26) 5.40E-03- 2.76E-02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F) .

TABLE H-3

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
	516				
BI-214	5.00E-02	6.89E-02(40/ 413)	LM-4 WB	8.32E-02(5/ 51)	7.83E-02(13/ 103)
		5.03E-02- 1.46E-01	0.9 MILES SE	5.57E-02- 1.46E-01	5.07E-02- 1.35E-01
K-40	3.00E-01	3.66E-01(50/ 413)	PM3	4.56E-01(3/ 52)	3.24E-01(9/ 103)
		3.04E-01- 6.98E-01	10.4 MILES NNE	3.30E-01- 6.98E-01	3.01E-01- 3.59E-01
PB-214	7.00E-02	9.48E-02(28/ 413)	PM4	1.12E-01(4/ 52)	1.12E-01(13/ 103)
		7.07E-02- 1.50E-01	7.6 MILES NE/ENE	7.46E-02- 1.40E-01	7.00E-02- 1.85E-01

- NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
- NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).
- NOTE: 3. THE ANALYSIS OF CHARCOAL FILTERS WAS PERFORMED BY GAMMA SPECTROSCOPY. NO I-131 WAS DETECTED.
THE LLD FOR I-131 BY GAMMA SPECTROSCOPY WAS 0.03 pCi/cubic meter.

TABLE H-4

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
IODINE-131						
129	4.00E-01	77 VALUES < LLD			52 VALUES < LLD	
GAMMA SCAN (GELI)						
130						
BI-214	2.00E+01	78 VALUES < LLD	LAYMAN FARM 1.3 MILES SSW	26 VALUES < LLD	2.53E+01 (7/ 52) 2.01E+01- 3.82E+01	
K-40	1.00E+02	1.38E+03 (78/ 78) 1.20E+03- 1.59E+03	LAYMAN FARM 1.3 MILES SSW	1.39E+03 (26/ 26) 1.26E+03- 1.49E+03	1.39E+03 (52/ 52) 8.25E+02- 1.74E+03	
PB-214	2.00E+01	78 VALUES < LLD	LAYMAN FARM 1.3 MILES SSW	26 VALUES < LLD	2.90E+01 (1/ 52) 2.90E+01- 2.90E+01	
SR 89						
20	3.50E+00	12 VALUES < LLD			8 VALUES < LLD	
SR 90						
20	2.00E+00	12 VALUES < LLD			8 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-5

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	10					
AC-228	2.50E-01	1.12E+00 (8/ 8)	PM5 DECATUR	1.43E+00 (1/ 1)	7.06E-01 (2/ 2)	
		8.45E-01- 1.43E+00	6.2 MILES S	1.43E+00- 1.43E+00	6.27E-01- 7.86E-01	
BI-212	4.50E-01	1.19E+00 (8/ 8)	LM1	1.44E+00 (1/ 1)	7.71E-01 (2/ 2)	
		9.14E-01- 1.44E+00	0.5 MILES SSW	1.44E+00- 1.44E+00	6.90E-01- 8.53E-01	
BI-214	1.50E-01	9.03E-01 (8/ 8)	LM1	1.04E+00 (1/ 1)	7.55E-01 (2/ 2)	
		7.05E-01- 1.04E+00	0.5 MILES SSW	1.04E+00- 1.04E+00	6.58E-01- 8.51E-01	
CS-137	3.00E-02	3.39E-01 (8/ 8)	LM3	1.17E+00 (1/ 1)	3.81E-01 (2/ 2)	
		4.87E-02- 1.17E+00	1.9 MILES NNE	1.17E+00- 1.17E+00	1.36E-01- 6.26E-01	
K-40	7.50E-01	1.22E+01 (8/ 8)	LM-4 WB	2.70E+01 (1/ 1)	4.98E+00 (2/ 2)	
		3.66E+00- 2.70E+01	0.9 MILES SE	2.70E+01- 2.70E+01	4.84E+00- 5.11E+00	
PB-212	1.00E-01	1.16E+00 (8/ 8)	PM5 DECATUR	1.40E+00 (1/ 1)	7.42E-01 (2/ 2)	
		9.05E-01- 1.40E+00	6.2 MILES S	1.40E+00- 1.40E+00	6.86E-01- 7.98E-01	
PB-214	1.50E-01	1.01E+00 (8/ 8)	LM3	1.16E+00 (1/ 1)	8.65E-01 (2/ 2)	
		7.94E-01- 1.16E+00	1.9 MILES NNE	1.16E+00- 1.16E+00	7.56E-01- 9.74E-01	
RA-224	7.50E-01	1.18E+00 (7/ 8)	LM2	1.41E+00 (1/ 1)	8.11E-01 (1/ 2)	
		1.00E+00- 1.41E+00	0.5 MILES N	1.41E+00- 1.41E+00	8.11E-01- 8.11E-01	
RA-226	1.50E-01	9.03E-01 (8/ 8)	LM1	1.04E+00 (1/ 1)	7.55E-01 (2/ 2)	
		7.05E-01- 1.04E+00	0.5 MILES SSW	1.04E+00- 1.04E+00	6.58E-01- 8.51E-01	
TL-208	6.00E-02	3.60E-01 (8/ 8)	PM5 DECATUR	4.34E-01 (1/ 1)	2.40E-01 (2/ 2)	
		2.67E-01- 4.34E-01	6.2 MILES S	4.34E-01- 4.34E-01	2.19E-01- 2.61E-01	
SR 89						
	10					
	1.60E+00	8 VALUES < LLD			2 VALUES < LLD	
SR 90						
	10					
	4.00E-01	8 VALUES < LLD			2 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-6

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN APPLES
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
K-40	2.50E+02	7.39E+02 (1/ 1) 7.39E+02- 7.39E+02	4.5 MILES N	7.39E+02 (1/ 1) 7.39E+02- 7.39E+02	7.05E+02 (1/ 1) 7.05E+02- 7.05E+02

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-7

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CABBAGE
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION SEE NOTE 2	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	2					
K-40	2.50E+02	1.22E+03(1/ 1) WBNP 1.22E+03- 1.22E+03 3 MILES ENE		1.22E+03(1/ 1) 1.22E+03- 1.22E+03	1.42E+03(1/ 1) 1.42E+03- 1.42E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F) .

TABLE H-8

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CORN
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
	2				
BI-214	4.00E+01	5.04E+01(1/ 1)	NORTON FARM	5.04E+01(1/ 1) 1.55E+02(1/ 1)	
		5.04E+01- 5.04E+01	4.1 MILES ESE	5.04E+01- 5.04E+01 1.55E+02- 1.55E+02	
K-40	2.50E+02	2.12E+03(1/ 1)	NORTON FARM	2.12E+03(1/ 1) 2.46E+03(1/ 1)	
		2.12E+03- 2.12E+03	4.1 MILES ESE	2.12E+03- 2.12E+03 2.46E+03- 2.46E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-9

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN GREEN BEANS
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	2					
BI-214	4.00E+01	8.79E+01 (1/ 1) 8.79E+01- 8.79E+01	5.5 MILES E	8.79E+01 (1/ 1) 8.79E+01- 8.79E+01	4.77E+01 (1/ 1) 4.77E+01- 4.77E+01	
K-40	2.50E+02	2.38E+03 (1/ 1) 2.38E+03- 2.38E+03	5.5 MILES E	2.38E+03 (1/ 1) 2.38E+03- 2.38E+03	2.56E+03 (1/ 1) 2.56E+03- 2.56E+03	
PB-214	8.00E+01	1.18E+02 (1/ 1) 1.18E+02- 1.18E+02	5.5 MILES E	1.18E+02 (1/ 1) 1.18E+02- 1.18E+02	1 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F) .

TABLE H-10

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN TOMATOES
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
	2				
K-40	2.50E+02	1.91E+03 (1/ 1) 1.91E+03- 1.91E+03	2.5 MILES NE	1.91E+03 (1/ 1) 1.91E+03- 1.91E+03	2.29E+03 (1/ 1) 2.29E+03- 2.29E+03

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-11

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SURFACE WATER (Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	38	1.90E+00	2.66E+00 (23/ 25) TRM 523.1 1.94E+00- 3.54E+00	2.71E+00 (11/ 13) 2.05E+00- 3.44E+00	3.00E+00 (11/ 13) 1.96E+00- 4.07E+00	
GAMMA SCAN (GELI)	38					
BI-214		2.00E+01	4.21E+01 (2/ 25) TRM 523.1 3.94E+01- 4.47E+01	4.21E+01 (2/ 13) 3.94E+01- 4.47E+01	4.96E+01 (1/ 13) 4.96E+01- 4.96E+01	
PB-214		2.00E+01	3.58E+01 (2/ 25) TRM 523.1 2.75E+01- 4.41E+01	3.58E+01 (2/ 13) 2.75E+01- 4.41E+01	4.60E+01 (1/ 13) 4.60E+01- 4.60E+01	
TRITIUM	12	3.00E+02	8 VALUES < LLD		4 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F) .

TABLE H-12

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN PUBLIC WATER(Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA						
39	1.90E+00	2.59E+00(23/ 26)	RM-2 DAYTON TN	2.76E+00(12/ 13)	3.00E+00(11/ 13)	
		1.90E+00- 4.52E+00	17.8 MILES NNE	2.03E+00- 4.52E+00	1.96E+00- 4.07E+00	
GAMMA SCAN (GELI)						
39						
BI-214	2.00E+01	2.38E+01(1/ 26)	CF INDUSTRIES	2.38E+01(1/ 13)	4.96E+01(1/ 13)	
		2.38E+01- 2.38E+01	TRM 473.0	2.38E+01- 2.38E+01	4.96E+01- 4.96E+01	
PB-214	2.00E+01	2.57E+01(1/ 26)	CF INDUSTRIES	2.57E+01(1/ 13)	4.60E+01(1/ 13)	
		2.57E+01- 2.57E+01	TRM 473.0	2.57E+01- 2.57E+01	4.60E+01- 4.60E+01	
TRITIUM						
12	3.00E+02	8 VALUES < LLD			4 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-13

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN WELL WATER (Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	12	1.90E+00	3.16E+00(3/ 4) WBN WELL #1 2.62E+00- 3.53E+00 0.6 MILES S	3.16E+00(3/ 4) 2.39E+00(5/ 8) 2.62E+00- 3.53E+00 2.16E+00- 2.59E+00	
GAMMA SCAN (GELI)	12				
BI-214	2.00E+01	4 VALUES < LLD	WBN WELL #1 0.6 MILES S	3.99E+01(4/ 8) 2.23E+01- 6.63E+01	
PB-214	2.00E+01	4 VALUES < LLD	WBN WELL #1 0.6 MILES S	4.60E+01(3/ 8) 3.54E+01- 6.15E+01	
TRITIUM	12	3.00E+02	5.38E+02(2/ 4) WBN WELL #1 4.07E+02- 6.69E+02 0.6 MILES S	5.38E+02(2/ 4) 8 VALUES < LLD 4.07E+02- 6.69E+02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-14

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN COMMERCIAL FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
	6				
BI-214	1.00E-01	2.75E-01(2/ 4)	CHICKAMAUGA RES	4.08E-01(1/ 2)	1.40E-01(1/ 2)
		1.43E-01- 4.08E-01	TRM 471-530	4.08E-01- 4.08E-01	1.40E-01- 1.40E-01
CS-137	3.00E-02	3.50E-02(1/ 4)	DOWNSTREAM STATION 1	3.50E-02(1/ 2)	8.75E-02(2/ 2)
		3.50E-02- 3.50E-02	DOWNSTREAM	3.50E-02- 3.50E-02	6.15E-02- 1.13E-01
K-40	4.00E-01	1.07E+01(4/ 4)	DOWNSTREAM STATION 1	1.18E+01(2/ 2)	1.26E+01(2/ 2)
		9.31E+00- 1.34E+01	DOWNSTREAM	1.02E+01- 1.34E+01	1.19E+01- 1.32E+01

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-15

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN GAME FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)					
	6				
BI-214	1.00E-01	2.37E-01(2/ 4)	DOWNSTREAM STATION 1	2.41E-01(1/ 2)	2.17E-01(1/ 2)
		2.32E-01- 2.41E-01	DOWNSTREAM	2.41E-01- 2.41E-01	2.17E-01- 2.17E-01
CS-137	3.00E-02	5.48E-02(3/ 4)	DOWNSTREAM STATION 1	6.62E-02(1/ 2)	7.54E-02(1/ 2)
		3.94E-02- 6.62E-02	DOWNSTREAM	6.62E-02- 6.62E-02	7.54E-02- 7.54E-02
K-40	4.00E-01	1.37E+01(4/ 4)	CHICKAMAUGA RES	1.50E+01(2/ 2)	1.30E+01(2/ 2)
		9.87E+00- 1.53E+01	TRM 471-530	1.47E+01- 1.53E+01	1.19E+01- 1.42E+01

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-16

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) ⁴						
AC-228	2.50E-01	1.50E+00 (2/ 2)	COTTON PORT MARINA	1.50E+00 (2/ 2)	2 VALUES < LLD	
		1.47E+00- 1.53E+00	TRM 513	1.47E+00- 1.53E+00		
BE-7	2.50E-01	5.95E-01 (1/ 2)	COTTON PORT MARINA	5.95E-01 (1/ 2)	2.75E-01 (1/ 2)	
		5.95E-01- 5.95E-01	TRM 513	5.95E-01- 5.95E-01	2.75E-01- 2.75E-01	
BI-212	4.50E-01	1.58E+00 (2/ 2)	COTTON PORT MARINA	1.58E+00 (2/ 2)	2 VALUES < LLD	
		1.54E+00- 1.63E+00	TRM 513	1.54E+00- 1.63E+00		
BI-214	1.50E-01	6.52E-01 (2/ 2)	COTTON PORT MARINA	6.52E-01 (2/ 2)	1.65E-01 (1/ 2)	
		6.37E-01- 6.66E-01	TRM 513	6.37E-01- 6.66E-01	1.65E-01- 1.65E-01	
CS-137	3.00E-02	3.80E-02 (2/ 2)	COTTON PORT MARINA	3.80E-02 (2/ 2)	2 VALUES < LLD	
		3.58E-02- 4.02E-02	TRM 513	3.58E-02- 4.02E-02		
K-40	7.50E-01	3.47E+01 (2/ 2)	COTTON PORT MARINA	3.47E+01 (2/ 2)	2 VALUES < LLD	
		3.42E+01- 3.52E+01	TRM 513	3.42E+01- 3.52E+01		
PB-212	1.00E-01	1.54E+00 (2/ 2)	COTTON PORT MARINA	1.54E+00 (2/ 2)	2 VALUES < LLD	
		1.50E+00- 1.58E+00	TRM 513	1.50E+00- 1.58E+00		
PB-214	1.50E-01	7.05E-01 (2/ 2)	COTTON PORT MARINA	7.05E-01 (2/ 2)	1.66E-01 (1/ 2)	
		6.98E-01- 7.12E-01	TRM 513	6.98E-01- 7.12E-01	1.66E-01- 1.66E-01	
RA-224	7.50E-01	1.47E+00 (2/ 2)	COTTON PORT MARINA	1.47E+00 (2/ 2)	2 VALUES < LLD	
		1.37E+00- 1.56E+00	TRM 513	1.37E+00- 1.56E+00		
RA-226	1.50E-01	6.52E-01 (2/ 2)	COTTON PORT MARINA	6.52E-01 (2/ 2)	1.65E-01 (1/ 2)	
		6.37E-01- 6.66E-01	TRM 513	6.37E-01- 6.66E-01	1.65E-01- 1.65E-01	
TL-208	6.00E-02	4.86E-01 (2/ 2)	COTTON PORT MARINA	4.86E-01 (2/ 2)	2 VALUES < LLD	
		4.70E-01- 5.01E-01	TRM 513	4.70E-01- 5.01E-01		

TABLE H-17

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .

NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

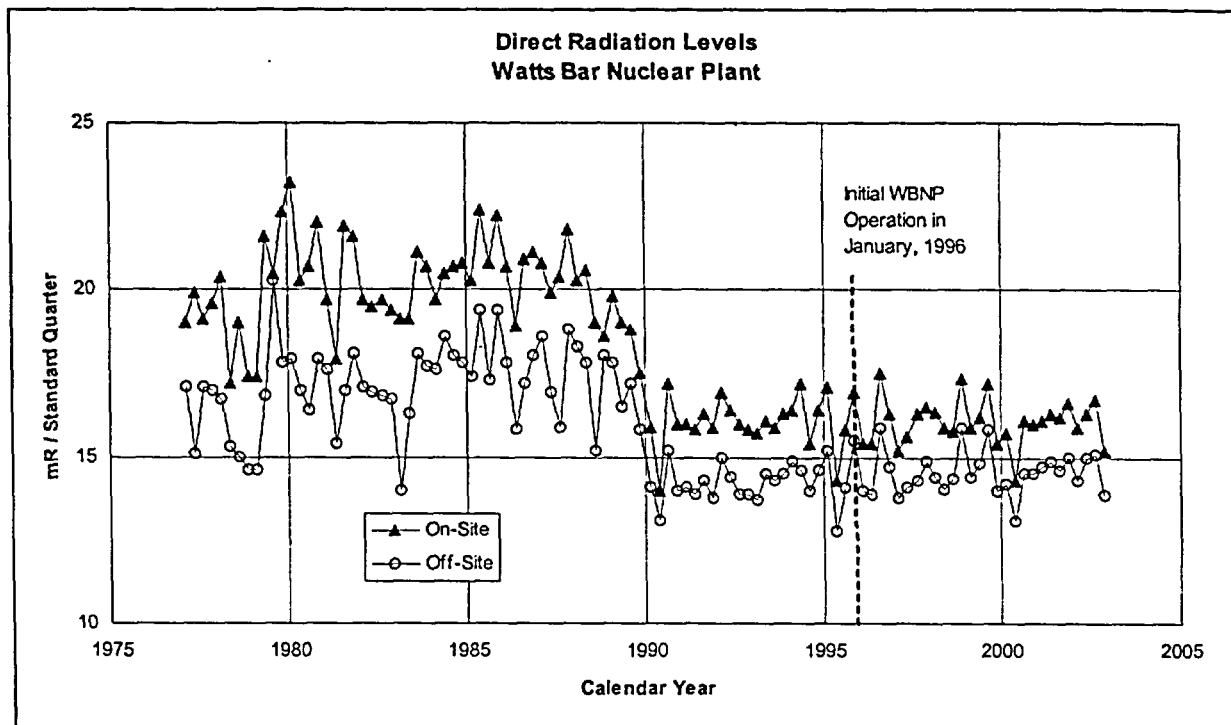
DOCKET NO.: 50-390,391
REPORTING PERIOD: 2002

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 5					
AC-228	2.50E-01	9.84E-01(5/ 5) YP-13 7.15E-01- 1.24E+00 YARD POND	1.24E+00(1/ 1) 1.24E+00- 1.24E+00	0 VALUES < LLD	
BE-7	2.50E-01	3.17E-01(3/ 5) YP-13 2.57E-01- 3.54E-01 YARD POND	3.54E-01(1/ 1) 3.54E-01- 3.54E-01	0 VALUES < LLD	
BI-212	4.50E-01	1.06E+00(5/ 5) YP-13 7.62E-01- 1.38E+00 YARD POND	1.38E+00(1/ 1) 1.38E+00- 1.38E+00	0 VALUES < LLD	
BI-214	1.50E-01	7.41E-01(5/ 5) YP-13 5.24E-01- 8.85E-01 YARD POND	8.85E-01(1/ 1) 8.85E-01- 8.85E-01	0 VALUES < LLD	
CO-60	3.00E-02	5.54E-02(4/ 5) YP-5 3.48E-02- 6.75E-02 YARD POND	6.75E-02(1/ 1) 6.75E-02- 6.75E-02	0 VALUES < LLD	
CS-137	3.00E-02	1.02E-01(5/ 5) YP-13 3.23E-02- 2.11E-01 YARD POND	2.11E-01(1/ 1) 2.11E-01- 2.11E-01	0 VALUES < LLD	
K-40	7.50E-01	1.26E+01(5/ 5) YP-13 9.18E+00- 1.62E+01 YARD POND	1.62E+01(1/ 1) 1.62E+01- 1.62E+01	0 VALUES < LLD	
PB-212	1.00E-01	1.02E+00(5/ 5) YP-13 7.52E-01- 1.28E+00 YARD POND	1.28E+00(1/ 1) 1.28E+00- 1.28E+00	0 VALUES < LLD	
PB-214	1.50E-01	8.16E-01(5/ 5) YP-13 5.72E-01- 9.65E-01 YARD POND	9.65E-01(1/ 1) 9.65E-01- 9.65E-01	0 VALUES < LLD	
RA-224	7.50E-01	1.13E+00(4/ 5) YP-13 9.74E-01- 1.28E+00 YARD POND	1.28E+00(1/ 1) 1.28E+00- 1.28E+00	0 VALUES < LLD	
SB-125	NOT ESTAB	5.14E-02(2/ 5) YP-16 2.42E-02- 7.87E-02 YARD POND	7.87E-02(1/ 1) 7.87E-02- 7.87E-02	0 VALUES < LLD	
TL-208	6.00E-02	3.19E-01(5/ 5) YP-13 2.32E-01- 4.03E-01 YARD POND	4.03E-01(1/ 1) 4.03E-01- 4.03E-01	0 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TABLE H-18

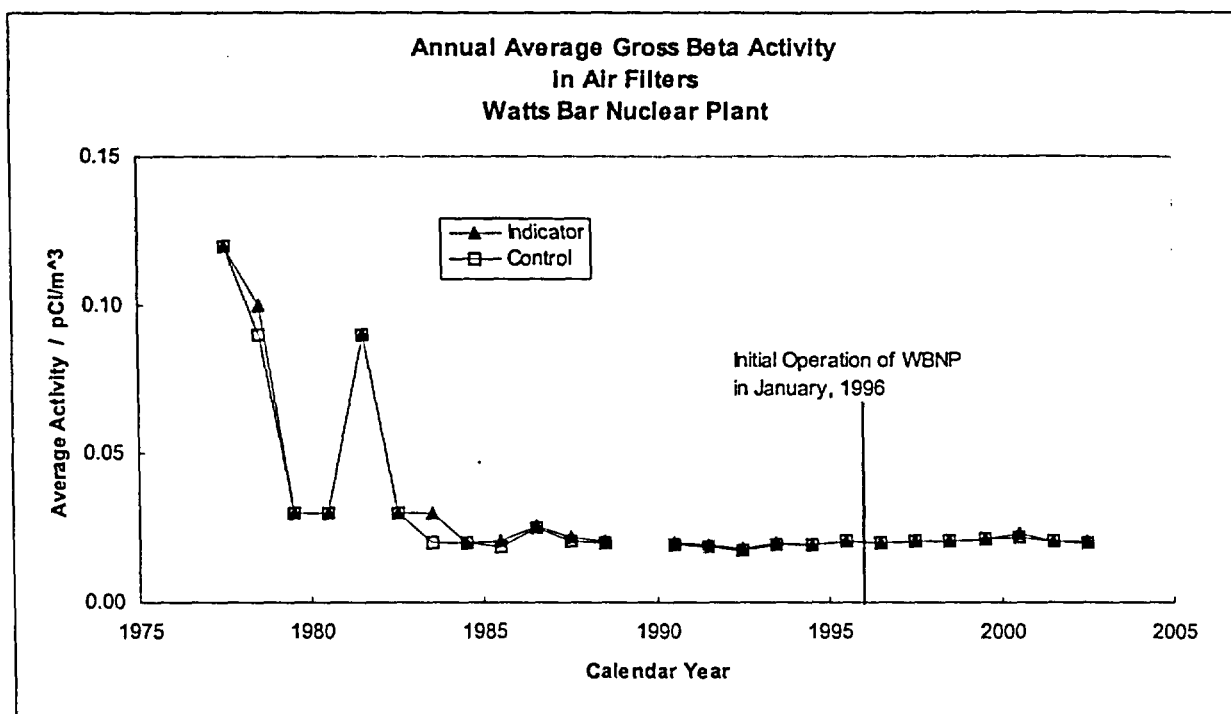
Figure H-1
Direct Radiation



Thermoluminescent dosimeters are processed quarterly. This chart shows trends in the average measurement for all dosimeters grouped as "on-site" or "off-site". The data from preoperational phase, prior to 1996, show the same trend of "on-site" measurements higher than "off-site" measurements that is observed in current data indicating that the slightly higher "on-site" direct radiation levels are not related to plant operations.

Figure H-2

Radioactivity in Air Filters



To more clearly show trends developed since the end of atmospheric weapons testing, the data beginning with the resumption of the monitoring program in 1990 is shown in greater detail.

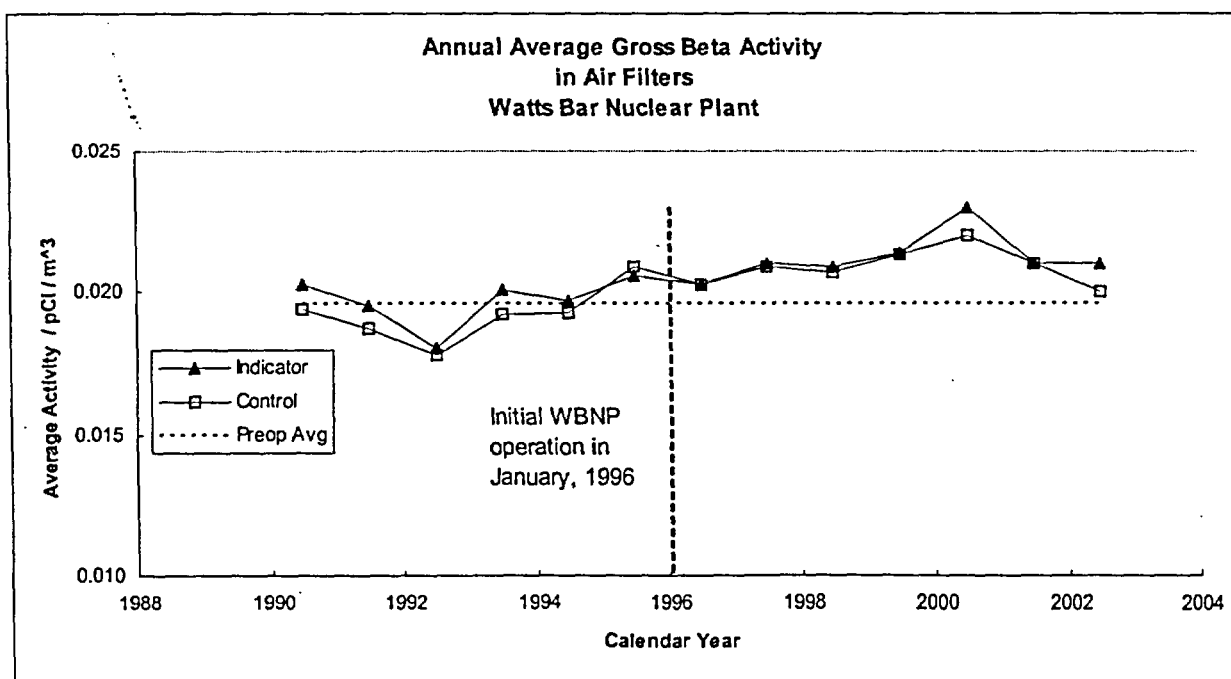
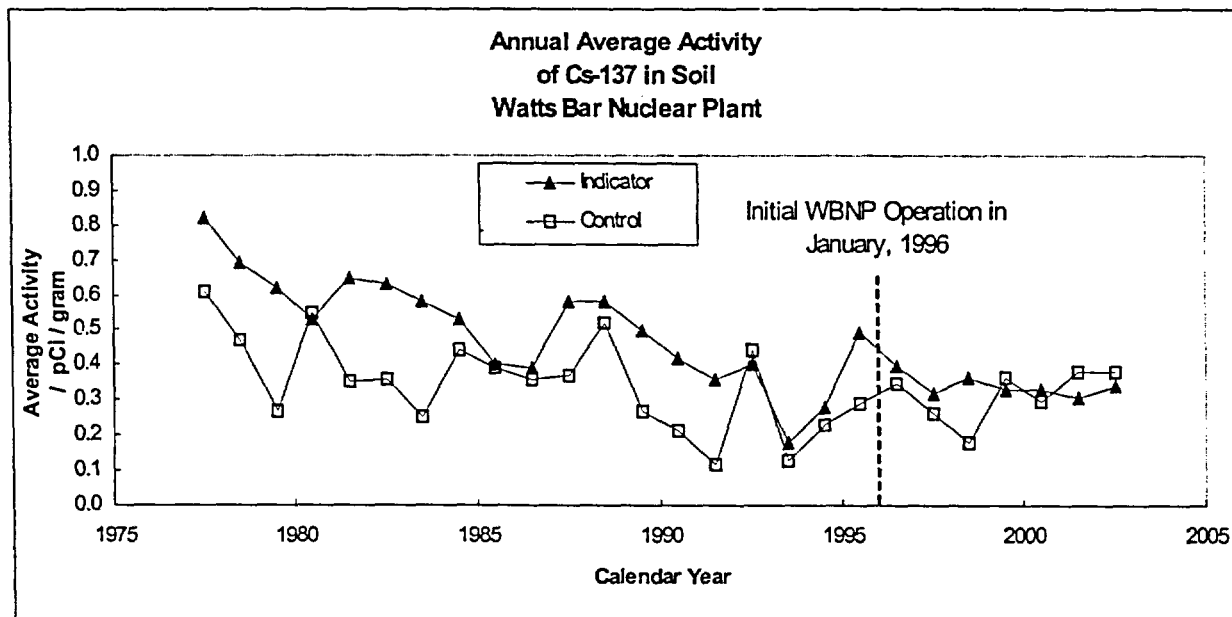


Figure H-3

Cs-137 in Soil

Cesium-137 was produced by past nuclear weapons testing and is present in almost every environmental sample exposed to the atmosphere. The "control" and "indicator" locations have generally trended downward with year-to-year variation, since the beginning of the monitoring program from the Watts Bar site.



In almost every year, the "indicator" locations have shown greater activity of Cs-137 than the "control" locations. This trend, with its preoperational average is shown below.

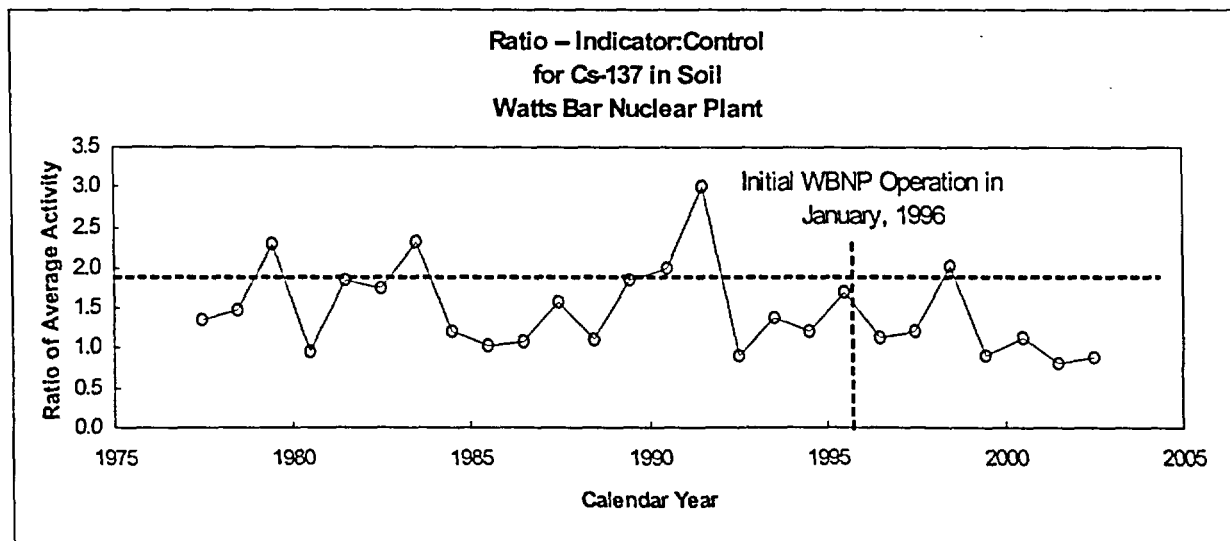


Figure H-4

Gross Beta Activity in Surface and Drinking Water

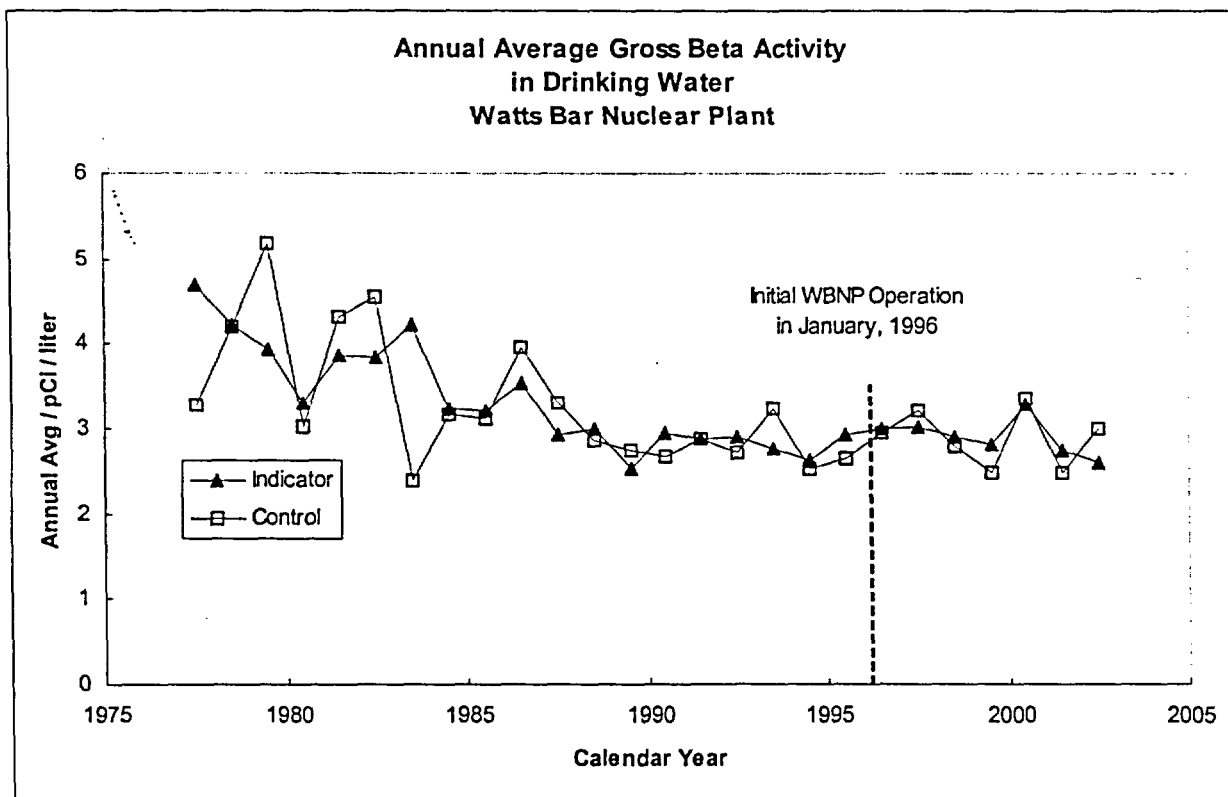
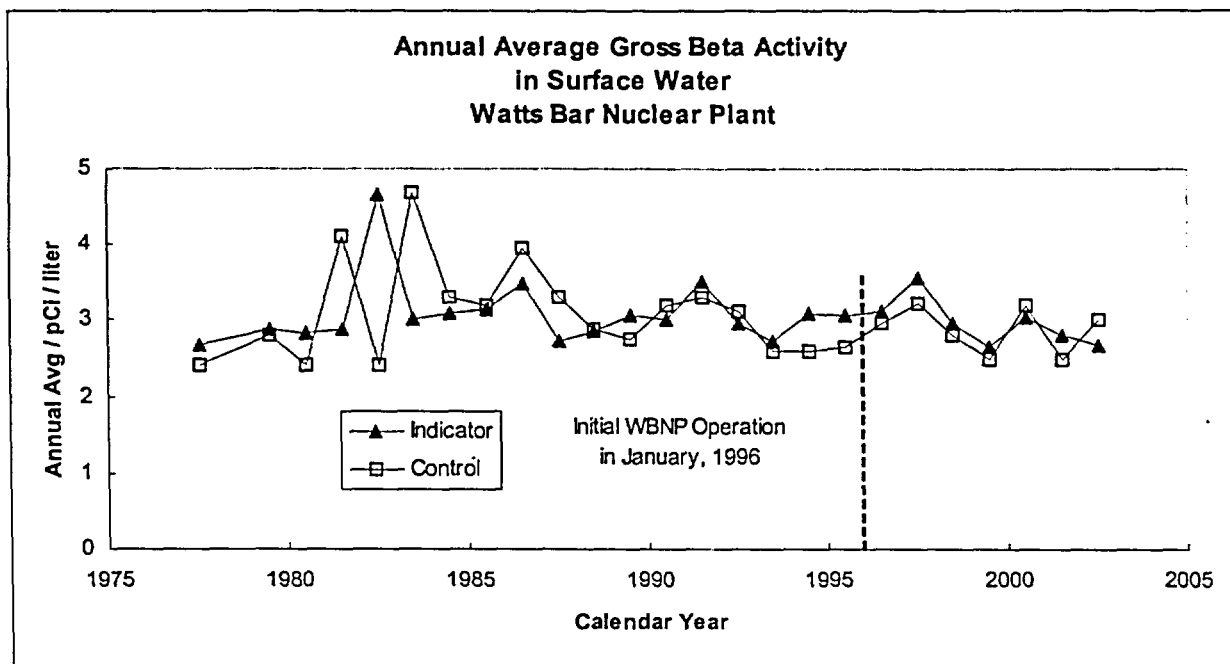


Figure H-5
Radioactivity in Fish

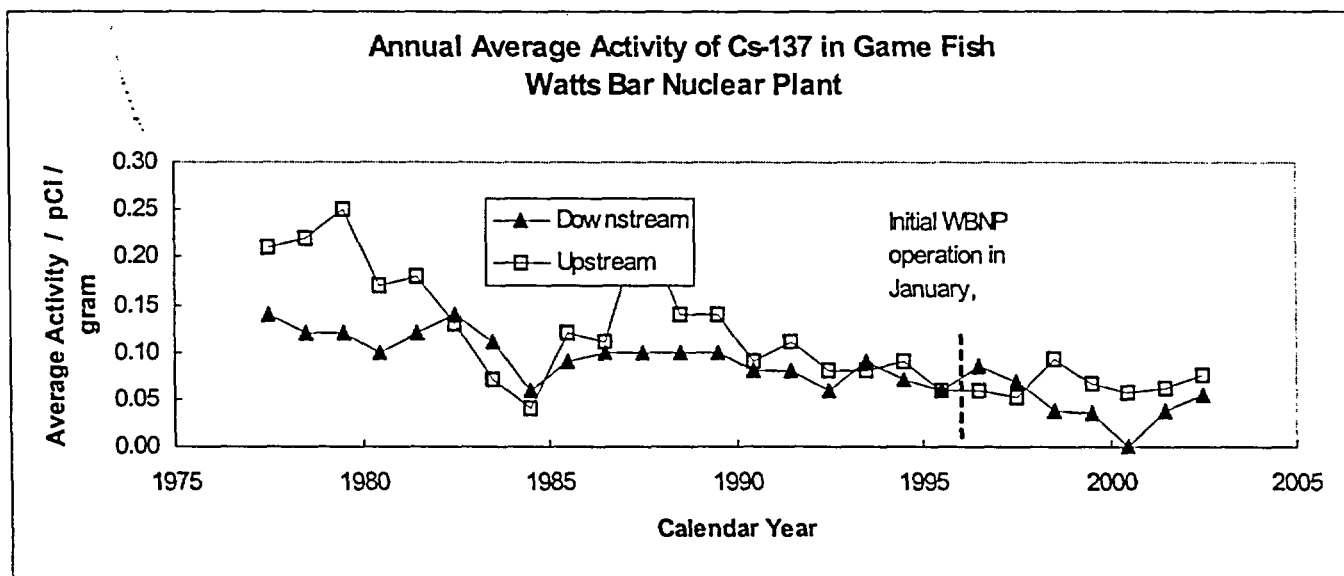
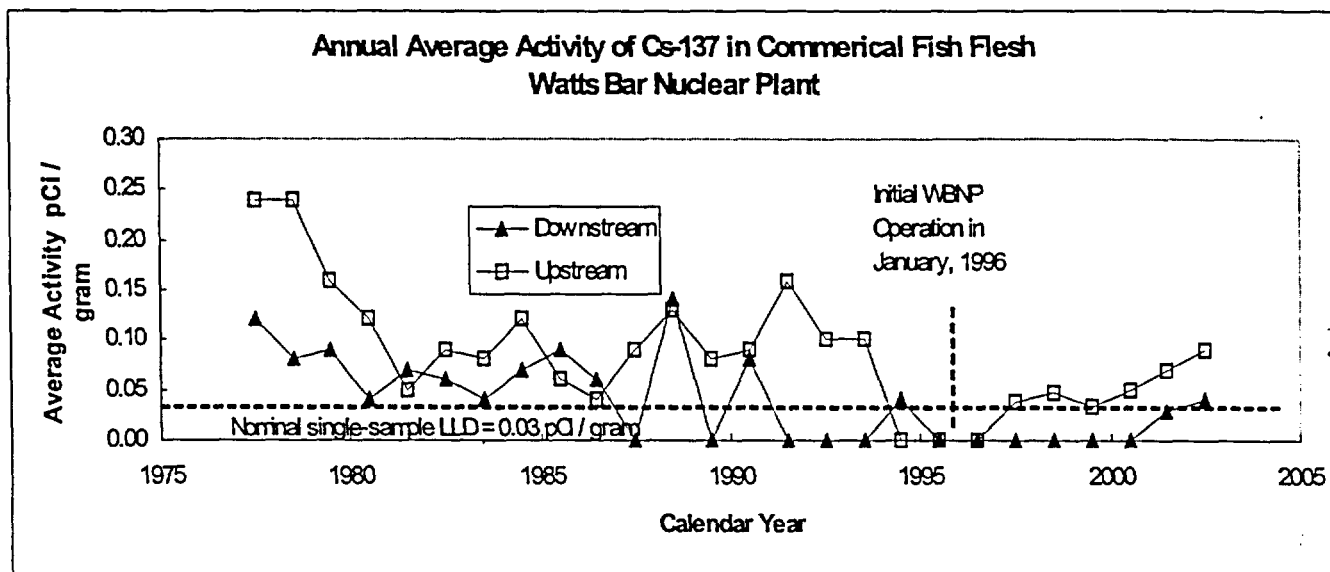
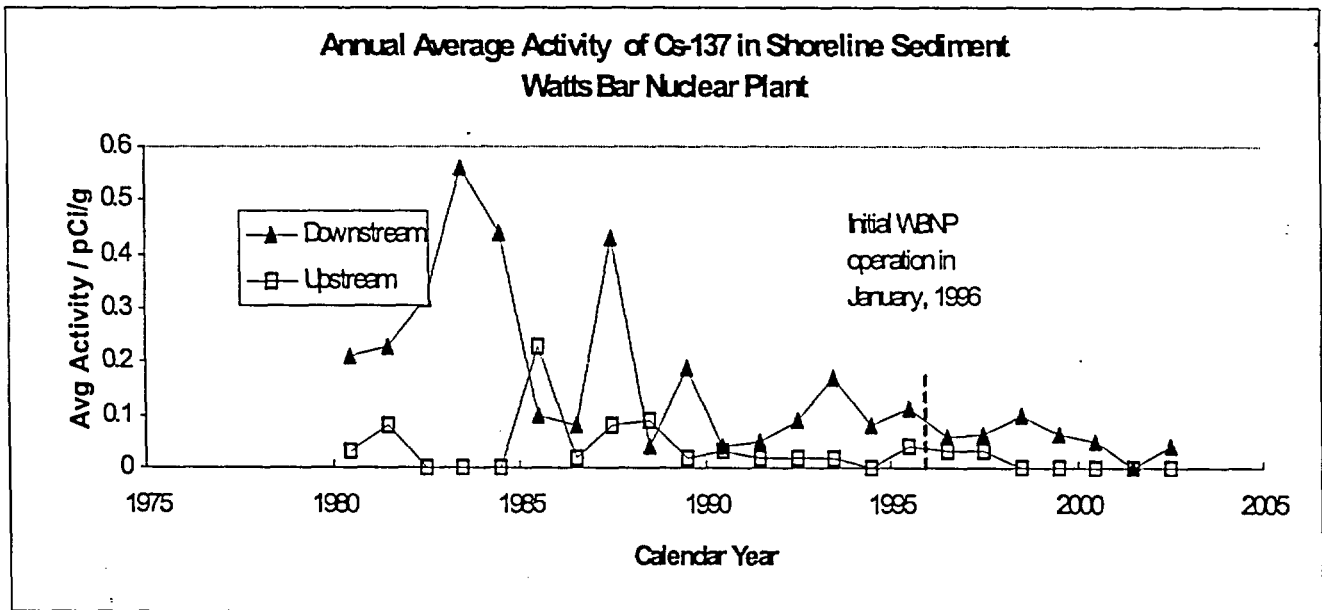


Figure H-6

Radioactivity in Shoreline Sediment

The Cs-137 present in the shoreline sediments of the Tennessee River system was produced both by testing of nuclear weapons and by related nuclear operations in the upper reaches of the Tennessee River watershed. The amounts of Cs-137 have declined significantly during the course of monitoring for the Watts Bar site, so much so that not all samples contain detectable levels.



Annual Radiological Environmental Operating Report

Data Supplement

**Watts Bar
Nuclear Plant
2002**



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
DATA SUPPLEMENT

2002

TENNESSEE VALLEY AUTHORITY

April 2003

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA
WATTS BAR NUCLEAR PLANT

2002

This supplement to the Watts Bar Nuclear Plant Annual Radiological Environmental Operating Report (AREOR) presents the results of individual sample analyses and radiation measurements. The results are ordered by sample type then by sample location and analysis type. If no gamma activity was detected in a sample, the notation 'NO ACTIVITY DETECTED' is entered in place of the activity. The sample locations are described in Appendix A to the AREOR.

These tables include all results, whether above or below the Lower Limit of Detection. Negative values are an artifact of counting statistics and do not imply a negative activity.

The uncertainty reported for specific analyses such as gross beta, Sr-89 and 90 and tritium is the one sigma counting error. For gamma analyses, the uncertainty reported is the one-sigma error calculated by the gamma spectral analysis software.

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION			ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	15.0 MILES	SW	GROSS BETA	.0269	.0030	01/02/02	220050
				.0242	.0027	01/08/02	220144
				.0211	.0023	01/15/02	220254
				.0244	.0027	01/22/02	220347
				.0178	.0020	01/29/02	220535
				.0158	.0018	02/05/02	220633
				.0195	.0022	02/12/02	220749
				.0161	.0019	02/19/02	220838
				.0174	.0020	02/26/02	220996
				.0210	.0023	03/05/02	221098
				.0261	.0028	03/12/02	221218
				.0120	.0014	03/19/02	221313
				.0192	.0021	03/26/02	221468
				.0144	.0017	04/02/02	221589
				.0204	.0022	04/09/02	221712
				.0152	.0017	04/16/02	221807
				.0160	.0018	04/23/02	221950
				.0187	.0021	04/30/02	222128
				.0139	.0016	05/07/02	222268
				.0162	.0018	05/14/02	222370
				.0175	.0020	05/21/02	222510
				.0192	.0021	05/28/02	222651
				.0184	.0020	06/04/02	222781
				.0195	.0022	06/11/02	222876
				.0183	.0020	06/18/02	223034
				.0163	.0018	06/25/02	223137
				.0137	.0016	07/01/02	223276
				.0235	.0025	07/09/02	223388
				.0159	.0018	07/16/02	223522
				.0188	.0021	07/23/02	223651
				.0179	.0020	07/30/02	223786
				.0291	.0031	08/06/02	223878
				.0255	.0027	08/13/02	224013
				.0122	.0015	08/20/02	224112
				.0217	.0024	08/27/02	224263
				.0132	.0015	09/03/02	224359
				.0315	.0033	09/10/02	224521
				.0179	.0020	09/17/02	224633

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	15.0 MILES S W	GROSS BETA			
		.0192	.0021	09/24/02	224769
		.0179	.0020	10/01/02	224862
		.0214	.0023	10/08/02	225001
		.0219	.0024	10/15/02	225101
		.0267	.0029	10/22/02	225215
		.0205	.0023	10/29/02	225399
		.0180	.0020	11/05/02	225553
		.0281	.0030	11/12/02	225650
		.0201	.0022	11/19/02	225764
		.0213	.0024	11/25/02	225858
		.0254	.0027	12/03/02	226018
		.0302	.0032	12/10/02	226115
		.0255	.0028	12/17/02	226243
		.0239	.0026	12/23/02	226366
	GAMMA SCAN (GELI)				
	AC-228	.0028	.0015	02/19/02	220908
	BE-7	.0745	.0072	01/22/02	220417
		.0797	.0075	02/19/02	220908
		.1016	.0090	03/19/02	221386
		.1031	.0084	04/16/02	221876
		.0934	.0061	05/14/02	222439
		.1172	.0112	06/11/02	222949
		.1027	.0078	07/09/02	223457
		.0923	.0086	08/06/02	223947
		.0921	.0074	09/03/02	224437
		.0806	.0068	10/02/02	224931
		.0756	.0078	10/29/02	225485
		.0579	.0067	11/25/02	225927
		.0975	.0090	12/23/02	226452
	BI-214	.0262	.0022	01/22/02	220417
		.0070	.0011	02/19/02	220908
		.0154	.0019	03/19/02	221386
		.0158	.0019	04/16/02	221876
		.0180	.0019	05/14/02	222439
		.0220	.0024	06/11/02	222949
		.0111	.0015	07/09/02	223457
		.0015	.0008	08/06/02	223947

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN 15.0 MILES SW	GAMMA SCAN (GELI) BI-214	.0070	.0016	09/03/02	224437
		.0081	.0043	10/02/02	224931
		.0021	.0010	10/29/02	225485
		.0119	.0017	11/25/02	225927
		.0257	.0041	12/23/02	226452
		.0148	.0073	01/22/02	220417
		.0069	.0106	02/19/02	220908
		.0027	.0081	03/19/02	221386
		.0048	.0056	07/09/02	223457
		.0054	.0070	08/06/02	223947
	K-40	.0079	.0059	09/03/02	224437
		.0100	.0068	10/02/02	224931
		.0126	.0071	11/25/02	225927
		.0086	.0050	12/23/02	226452
		.0008	.0007	03/19/02	221386
		.0247	.0017	01/22/02	220417
		.0044	.0014	02/19/02	220908
		.0143	.0018	03/19/02	221386
		.0150	.0016	04/16/02	221876
		.0184	.0015	05/14/02	222439
	PB-212 PB-214	.0230	.0028	06/11/02	222949
		.0113	.0013	07/09/02	223457
		.0015	.0012	08/06/02	223947
		.0061	.0014	09/03/02	224437
		.0029	.0012	10/02/02	224931
		.0015	.0010	10/29/02	225485
		.0135	.0018	11/25/02	225927
		.0234	.0025	12/23/02	226452
3101 LM1 0.5 MILES SSW	GROSS BETA	.0270	.0029	01/02/02	220074
		.0226	.0025	01/08/02	220168
		.0218	.0024	01/15/02	220271
		.0196	.0022	01/22/02	220379
		.0143	.0017	01/29/02	220559
		.0148	.0017	02/05/02	220657
		.0169	.0019	02/12/02	220766
		.0169	.0019	02/19/02	220869

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1	0.5 MILES SSW	GROSS BETA			
		.0193	.0021	02/26/02	221020
		.0193	.0021	03/05/02	221122
		.0267	.0029	03/12/02	221235
		.0120	.0014	03/19/02	221345
		.0193	.0021	03/26/02	221492
		.0144	.0017	04/02/02	221612
		.0198	.0022	04/09/02	221729
		.0142	.0016	04/16/02	221837
		.0184	.0021	04/23/02	221974
		.0214	.0024	04/30/02	222168
		.0142	.0017	05/07/02	222285
		.0166	.0019	05/14/02	222400
		.0172	.0020	05/21/02	222534
		.0209	.0023	05/28/02	222674
		.0215	.0024	06/04/02	222798
		.0190	.0021	06/11/02	222908
		.0204	.0023	06/18/02	223058
		.0214	.0024	06/25/02	223160
		.0159	.0019	07/01/02	223304
		.0263	.0028	07/09/02	223418
		.0179	.0020	07/16/02	223546
		.0208	.0023	07/23/02	223674
		.0190	.0021	07/30/02	223803
		.0282	.0030	08/06/02	223909
		.0237	.0026	08/13/02	224037
		.0151	.0018	08/20/02	224136
		.0222	.0024	08/27/02	224280
		.0171	.0019	09/03/02	224397
		.0345	.0037	09/10/02	224545
		.0232	.0025	09/17/02	224657
		.0196	.0022	09/24/02	224786
		.0183	.0021	10/01/02	224893
		.0257	.0028	10/08/02	225025
		.0254	.0028	10/15/02	225125
		.0275	.0030	10/22/02	225232
		.0185	.0021	10/29/02	225440
		.0219	.0024	11/05/02	225577
		.0269	.0029	11/12/02	225674

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1	0.5 MILES SSW	GROSS BETA			
		.0186	.0021	11/19/02	225781
		.0210	.0024	11/25/02	225888
		.0267	.0028	12/03/02	226042
		.0285	.0031	12/10/02	226139
		.0281	.0030	12/17/02	226265
		.0275	.0030	12/23/02	226404
	GAMMA SCAN (GELI)				
	BE-7	.0685	.0079	01/22/02	220424
		.0697	.0063	02/19/02	220915
		.1116	.0122	03/19/02	221393
		.1003	.0083	04/16/02	221883
		.1145	.0098	05/14/02	222446
		.1105	.0096	06/11/02	222956
		.1191	.0102	07/09/02	223464
		.1078	.0083	08/06/02	223954
		.1027	.0114	09/03/02	224444
		.0897	.0091	10/01/02	224938
		.0745	.0082	10/29/02	225492
		.0677	.0055	11/25/02	225934
		.0802	.0081	12/23/02	226459
	BI-214	.0146	.0023	01/22/02	220424
		.0027	.0009	02/19/02	220915
		.0084	.0019	03/19/02	221393
		.0046	.0011	04/16/02	221883
		.0093	.0013	05/14/02	222446
		.0059	.0014	06/11/02	222956
		.0074	.0016	07/09/02	223464
		.0008	.0009	08/06/02	223954
		.0021	.0011	09/03/02	224444
		.0024	.0009	10/01/02	224938
		.0108	.0014	10/29/02	225492
		.0106	.0019	11/25/02	225934
		.0149	.0023	12/23/02	226459
	K-40	.0164	.0082	02/19/02	220915
		.0072	.0053	05/14/02	222446
		.0135	.0062	06/11/02	222956
		.0084	.0082	11/25/02	225934

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)			
		K-40	.0046	.0077 12/23/02	226459
		PB-212	.0000	.0006 10/01/02	224938
			.0003	.0006 11/25/02	225934
		PB-214	.0127	.0016 01/22/02	220424
			.0023	.0010 02/19/02	220915
			.0098	.0012 03/19/02	221393
			.0046	.0011 04/16/02	221883
			.0061	.0013 05/14/02	222446
			.0053	.0011 06/11/02	222956
			.0065	.0014 07/09/02	223464
			.0028	.0009 09/03/02	224444
			.0029	.0011 10/01/02	224938
			.0110	.0010 10/29/02	225492
			.0082	.0012 11/25/02	225934
			.0161	.0020 12/23/02	226459
		TL-208	.0008	.0006 11/25/02	225934
3102 LM2	0.4 MILES NNE	GROSS BETA			
			.0260	.0028 01/02/02	220077
			.0216	.0024 01/08/02	220170
			.0208	.0023 01/15/02	220273
			.0222	.0024 01/22/02	220381
			.0142	.0016 01/29/02	220562
			.0155	.0018 02/05/02	220659
			.0171	.0019 02/12/02	220768
			.0153	.0018 02/19/02	220871
			.0180	.0020 02/26/02	221023
			.0177	.0024 03/05/02	221124
			.0244	.0027 03/12/02	221237
			.0115	.0014 03/19/02	221347
			.0176	.0020 03/26/02	221495
			.0151	.0017 04/02/02	221614
			.0215	.0024 04/09/02	221731
			.0137	.0016 04/16/02	221839
			.0164	.0019 04/23/02	221977
			.0198	.0022 04/30/02	222170
			.0139	.0017 05/07/02	222287
			.0164	.0019 05/14/02	222402

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2	0.4 MILES NNE	GROSS BETA			
		.0180	.0020	05/21/02	222537
		.0204	.0023	05/28/02	222676
		.0194	.0022	06/04/02	222800
		.0192	.0022	06/11/02	222910
		.0206	.0023	06/18/02	223061
		.0191	.0021	06/25/02	223162
		.0141	.0017	07/01/02	223307
		.0275	.0029	07/09/02	223420
		.0163	.0019	07/16/02	223549
		.0209	.0023	07/23/02	223676
		.0163	.0019	07/30/02	223805
		.0271	.0029	08/06/02	223911
		.0222	.0025	08/13/02	224040
		.0139	.0016	08/20/02	224138
		.0198	.0022	08/27/02	224282
		.0164	.0019	09/03/02	224399
		.0326	.0035	09/10/02	224548
		.0260	.0028	09/17/02	224659
		.0181	.0020	09/24/02	224788
		.0180	.0021	10/01/02	224895
		.0215	.0024	10/08/02	225028
		.0223	.0025	10/15/02	225127
		.0266	.0029	10/22/02	225234
		.0199	.0022	10/29/02	225442
		.0169	.0020	11/05/02	225580
		.0275	.0030	11/12/02	225676
		.0210	.0023	11/19/02	225783
		.0222	.0025	11/25/02	225890
		.0260	.0028	12/03/02	226045
		.0267	.0029	12/10/02	226142
		.0278	.0030	12/17/02	226267
		.0270	.0030	12/23/02	226407
	GAMMA SCAN (GELI)				
	AC-228	.0037	.0018	11/25/02	225935
	BE-7	.0664	.0106	01/22/02	220425
		.0767	.0071	02/19/02	220916
		.0895	.0089	03/19/02	221394

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR	DATE	LAB NO
			TERM	COLLECTED	
3102 LM2	0.4 MILES NNE GAMMA SCAN (GELI) BE-7	.1030	.0076	04/16/02	221884
		.1100	.0081	05/14/02	222447
		.1125	.0114	06/11/02	222957
		.1185	.0089	07/09/02	223465
		.1022	.0097	08/06/02	223955
		.0940	.0091	09/03/02	224445
		.0970	.0088	10/01/02	224939
		.0732	.0072	10/29/02	225493
		.0566	.0046	11/25/02	225935
		.0762	.0066	12/23/02	226460
	BI-214	.0129	.0016	01/22/02	220425
		.0092	.0016	02/19/02	220916
		.0120	.0019	03/19/02	221394
		.0121	.0017	04/16/02	221884
		.0139	.0016	05/14/02	222447
		.0069	.0013	06/11/02	222957
		.0089	.0016	07/09/02	223465
		.0007	.0010	08/06/02	223955
		.0092	.0014	09/03/02	224445
		.0036	.0015	10/01/02	224939
	K-40	.0048	.0014	10/29/02	225493
		.0126	.0017	11/25/02	225935
		.0379	.0030	12/23/02	226460
		.0091	.0065	01/22/02	220425
		.0070	.0077	02/19/02	220916
		.0061	.0078	03/19/02	221394
		.0062	.0068	04/16/02	221884
		.0018	.0056	09/03/02	224445
	PB-212 PB-214	.0007	.0006	04/16/02	221884
		.0133	.0019	01/22/02	220425
		.0073	.0010	02/19/02	220916
		.0133	.0018	03/19/02	221394
		.0092	.0012	04/16/02	221884
		.0129	.0013	05/14/02	222447
		.0073	.0011	07/09/02	223465
		.0089	.0014	09/03/02	224445
		.0056	.0013	10/01/02	224939
		.0065	.0011	10/29/02	225493

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI) PB-214	.0126	.0015 11/25/02	225935
			.0368	.0026 12/23/02	226460
		TL-208	.0003	.0004 04/16/02	221884
3106 PM2 SPRING CITY	7.0 MILES NW	GROSS BETA	.0276	.0030 01/02/02	220081
			.0233	.0026 01/08/02	220173
			.0242	.0026 01/15/02	220276
			.0216	.0024 01/22/02	220384
			.0171	.0019 01/29/02	220566
			.0171	.0020 02/05/02	220662
			.0182	.0020 02/12/02	220771
			.0192	.0022 02/19/02	220874
			.0215	.0024 02/26/02	221027
			.0209	.0023 03/05/02	221127
			.0268	.0029 03/12/02	221240
			.0113	.0014 03/19/02	221350
			.0192	.0021 03/26/02	221499
			.0140	.0016 04/02/02	221617
			.0198	.0022 04/09/02	221734
			.0147	.0017 04/16/02	221842
			.0171	.0019 04/23/02	221981
			.0174	.0020 04/30/02	222173
			.0129	.0015 05/07/02	222290
			.0181	.0020 05/14/02	222405
			.0173	.0020 05/21/02	222541
			.0199	.0022 05/28/02	222679
			.0205	.0023 06/04/02	222803
			.0213	.0024 06/11/02	222913
			.0192	.0022 06/18/02	223065
			.0223	.0024 06/25/02	223165
			.0156	.0019 07/01/02	223311
			.0266	.0028 07/09/02	223423
			.0179	.0020 07/16/02	223553
			.0222	.0024 07/23/02	223679
			.0192	.0022 07/30/02	223808
			.0280	.0030 08/06/02	223914
			.0228	.0025 08/13/02	224044

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GROSS BETA			
		.0173	.0020	08/20/02	224141
		.0221	.0024	08/27/02	224285
		.0174	.0020	09/03/02	224402
		.0348	.0037	09/10/02	224552
		.0237	.0026	09/17/02	224662
		.0202	.0023	09/24/02	224791
		.0151	.0018	10/01/02	224898
		.0242	.0026	10/08/02	225032
		.0239	.0026	10/15/02	225130
		.0280	.0030	10/22/02	225237
		.0206	.0023	10/29/02	225445
		.0243	.0026	11/05/02	225584
		.0278	.0030	11/12/02	225679
		.0184	.0021	11/19/02	225786
		.0247	.0027	11/25/02	225893
		.0290	.0031	12/03/02	226049
		.0305	.0033	12/10/02	226146
		.0258	.0028	12/17/02	226270
		.0271	.0030	12/23/02	226411
	GAMMA SCAN (GELI)				
	BE-7	.0686	.0077	01/22/02	220426
		.0750	.0096	02/19/02	220917
		.0999	.0094	03/19/02	221395
		.1027	.0101	04/16/02	221885
		.1012	.0086	05/14/02	222448
		.1335	.0112	06/11/02	222958
		.1016	.0085	07/09/02	223466
		.0982	.0094	08/06/02	223956
		.0925	.0128	09/03/02	224446
		.0842	.0091	10/01/02	224940
		.0705	.0060	10/29/02	225494
		.0693	.0073	11/25/02	225936
		.0882	.0093	12/23/02	226461
	BI-214	.0096	.0014	01/22/02	220426
		.0134	.0021	02/19/02	220917
		.0121	.0024	03/19/02	221395
		.0093	.0014	04/16/02	221885

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)			
	BI-214	.0130	.0020	05/14/02	222448
		.0151	.0020	06/11/02	222958
		.0138	.0017	07/09/02	223466
		.0030	.0012	08/06/02	223956
		.0052	.0010	09/03/02	224446
		.0113	.0018	10/01/02	224940
		.0034	.0011	10/29/02	225494
		.0292	.0070	11/25/02	225936
		.0432	.0039	12/23/02	226461
	K-40	.0106	.0110	01/22/02	220426
		.0093	.0083	05/14/02	222448
		.0055	.0053	07/09/02	223466
		.0021	.0088	09/03/02	224446
		.0184	.0087	10/29/02	225494
	PB-212	.0005	.0007	10/01/02	224940
	PB-214	.0109	.0014	01/22/02	220426
		.0131	.0018	02/19/02	220917
		.0111	.0019	03/19/02	221395
		.0096	.0015	04/16/02	221885
		.0125	.0017	05/14/02	222448
		.0127	.0017	06/11/02	222958
		.0102	.0012	07/09/02	223466
		.0017	.0010	08/06/02	223956
		.0059	.0013	09/03/02	224446
		.0102	.0013	10/01/02	224940
		.0031	.0010	10/29/02	225494
		.0256	.0023	11/25/02	225936
		.0494	.0036	12/23/02	226461
3107 PM3	10.4 MILES NNE	GROSS BETA			
		.0248	.0027	01/02/02	220084
		.0237	.0026	01/08/02	220175
		.0223	.0024	01/15/02	220278
		.0205	.0023	01/22/02	220386
		.0172	.0019	01/29/02	220569
		.0148	.0017	02/05/02	220664
		.0155	.0018	02/12/02	220773
		.0159	.0021	02/19/02	220876

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3107 PM3	10.4 MILES NNE	GROSS BETA	
		.0208	.0023 02/26/02 221030
		.0208	.0023 03/05/02 221129
		.0272	.0029 03/12/02 221242
		.0125	.0015 03/19/02 221352
		.0205	.0023 03/26/02 221502
		.0163	.0018 04/02/02 221619
		.0207	.0023 04/09/02 221736
		.0144	.0017 04/16/02 221844
		.0152	.0018 04/23/02 221984
		.0171	.0019 04/30/02 222175
		.0140	.0016 05/07/02 222292
		.0169	.0019 05/14/02 222407
		.0173	.0019 05/21/02 222544
		.0193	.0021 05/28/02 222681
		.0210	.0023 06/04/02 222805
		.0203	.0022 06/11/02 222915
		.0179	.0020 06/18/02 223068
		.0173	.0019 06/25/02 223167
		.0142	.0017 07/01/02 223314
		.0234	.0025 07/09/02 223425
		.0176	.0020 07/16/02 223556
		.0208	.0023 07/23/02 223681
		.0153	.0018 07/30/02 223810
		.0299	.0032 08/06/02 223916
		.0244	.0027 08/13/02 224047
		.0128	.0015 08/20/02 224143
		.0222	.0024 08/27/02 224287
		.0181	.0020 09/03/02 224404
		.0350	.0037 09/10/02 224555
		.0213	.0023 09/17/02 224664
		.0191	.0021 09/24/02 224793
		.0173	.0019 10/01/02 224900
		.0256	.0028 10/08/02 225035
		.0233	.0025 10/15/02 225132
		.0249	.0027 10/22/02 225239
		.0189	.0021 10/29/02 225447
		.0197	.0022 11/05/02 225587
		.0257	.0028 11/12/02 225681

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3107 PM3 10.4 MILES NNE	GROSS BETA	.0200	.0022	11/19/02 225788
		.0188	.0021	11/25/02 225895
		.0256	.0027	12/03/02 226052
		.0276	.0030	12/10/02 226149
		.0263	.0028	12/17/02 226272
		.0258	.0028	12/23/02 226414
	GAMMA SCAN (GELI) AC-228	.0042	.0018	09/03/02 224447
		.0033	.0015	10/01/02 224941
		BE-7	.0071	01/22/02 220427
			.0079	02/19/02 220918
			.0107	03/19/02 221396
			.0093	04/16/02 221886
			.0085	05/14/02 222449
			.0106	06/11/02 222959
	BI-214	.1308	.0113	07/09/02 223467
		.1025	.0093	08/06/02 223957
		.1016	.0084	09/03/02 224447
		.0968	.0068	10/01/02 224941
		.0918	.0066	10/29/02 225495
		.0777	.0065	11/25/02 225937
		.0549	.0059	12/23/02 226462
		.0760	.0024	01/22/02 220427
		.0181	.0023	02/19/02 220918
		.0185	.0026	03/19/02 221396
		.0359	.0015	04/16/02 221886
		.0085	.0015	05/14/02 222449
		.0022	.0013	06/11/02 222959
		.0093	.0018	07/09/02 223467
		.0118	.0009	08/06/02 223957
		.0003	.0014	09/03/02 224447
		.0049	.0017	10/01/02 224941
		.0142	.0012	10/29/02 225495
		.0058	.0017	11/25/02 225937
	K-40	.0175	.0031	12/23/02 226462
		.0417	.0068	01/22/02 220427
		.0153	.0073	09/03/02 224447
		.0036		

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI)			
		K-40	.0037	.0049 10/29/02	225495
			.0097	.0051 12/23/02	226462
		PB-212	.0016	.0006 05/14/02	222449
		PB-214	.0211	.0019 01/22/02	220427
			.0146	.0021 02/19/02	220918
			.0366	.0031 03/19/02	221396
			.0087	.0017 04/16/02	221886
			.0009	.0008 05/14/02	222449
			.0087	.0010 06/11/02	222959
			.0108	.0021 07/09/02	223467
			.0005	.0009 08/06/02	223957
			.0043	.0010 09/03/02	224447
			.0121	.0015 10/01/02	224941
			.0069	.0011 10/29/02	225495
			.0168	.0023 11/25/02	225937
			.0389	.0024 12/23/02	226462
			.0004	.0004 09/03/02	224447
		TL-208			
3108 PM4	7.6 MILES NE/ENE	GROSS BETA			
			.0237	.0026 01/02/02	220087
			.0234	.0028 01/08/02	220177
			.0229	.0025 01/16/02	220280
			.0218	.0024 01/22/02	220388
			.0163	.0018 01/30/02	220572
			.0164	.0019 02/05/02	220666
			.0153	.0017 02/13/02	220775
			.0165	.0019 02/19/02	220878
			.0200	.0022 02/27/02	221033
			.0197	.0022 03/05/02	221131
			.0242	.0026 03/13/02	221244
			.0112	.0014 03/19/02	221354
			.0175	.0019 03/27/02	221505
			.0158	.0018 04/02/02	221621
			.0193	.0021 04/10/02	221738
			.0146	.0017 04/16/02	221846
			.0191	.0021 04/24/02	221987
			.0195	.0022 04/30/02	222177
			.0148	.0017 04/08/02	222294

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GROSS BETA			
		.0170	.0020	05/14/02	222409
		.0167	.0019	05/22/02	222547
		.0196	.0022	05/28/02	222683
		.0196	.0022	06/05/02	222807
		.0198	.0022	06/11/02	222917
		.0215	.0024	06/19/02	223071
		.0190	.0021	06/26/02	223169
		.0152	.0018	07/02/02	223318
		.0284	.0030	07/10/02	223427
		.0199	.0022	07/17/02	223559
		.0216	.0024	07/24/02	223683
		.0176	.0020	07/31/02	223812
		.0295	.0032	08/07/02	223918
		.0279	.0030	08/14/02	224050
		.0168	.0019	08/21/02	224145
		.0201	.0023	08/27/02	224289
		.0191	.0021	09/04/02	224406
		.0356	.0038	09/11/02	224558
		.0200	.0022	09/18/02	224666
		.0218	.0024	09/25/02	224795
		.0165	.0019	10/02/02	224902
		.0258	.0028	10/09/02	225038
		.0204	.0023	10/16/02	225134
		.0288	.0031	10/23/02	225241
		.0196	.0022	10/29/02	225449
		.0188	.0021	11/06/02	225590
		.0293	.0031	11/13/02	225683
		.0202	.0022	11/20/02	225790
		.0191	.0022	11/25/02	225897
		.0281	.0030	12/04/02	226055
		.0272	.0029	12/11/02	226151
		.0256	.0028	12/18/02	226274
		.0233	.0026	12/23/02	226416
	GAMMA SCAN (GELI)				
	AC-228	.0023	.0019	06/11/02	222960
	BE-7	.0653	.0103	01/22/02	220428
		.0746	.0066	02/19/02	220919

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)			
		BE-7			
		.0949	.0088	03/19/02	221397
		.0969	.0087	04/16/02	221887
		.1012	.0083	05/14/02	222450
		.1307	.0094	06/11/02	222960
		.1135	.0094	07/10/02	223468
		.1030	.0083	08/07/02	223958
		.0902	.0094	09/04/02	224448
		.0803	.0080	10/02/02	224942
		.0705	.0077	10/29/02	225496
		.0558	.0062	11/25/02	225938
		.0750	.0079	12/23/02	226463
	BI-214	.0113	.0019	01/22/02	220428
		.0111	.0017	02/19/02	220919
		.0220	.0020	03/19/02	221397
		.0114	.0016	04/16/02	221887
		.0102	.0012	05/14/02	222450
		.0078	.0012	06/11/02	222960
		.0085	.0015	07/10/02	223468
		.0006	.0009	08/07/02	223958
		.0045	.0014	09/04/02	224448
		.0094	.0016	10/02/02	224942
		.0038	.0011	10/29/02	225496
		.0086	.0013	11/25/02	225938
		.0333	.0026	12/23/02	226463
	K-40	.0047	.0053	04/16/02	221887
		.0074	.0060	05/14/02	222450
		.0179	.0074	06/11/02	222960
		.0094	.0055	07/10/02	223468
		.0144	.0074	10/02/02	224942
		.0084	.0064	10/29/02	225496
	PB-212	.0004	.0005	11/25/02	225938
	PB-214	.0098	.0022	01/22/02	220428
		.0095	.0014	02/19/02	220919
		.0221	.0021	03/19/02	221397
		.0129	.0020	04/16/02	221887
		.0095	.0017	05/14/02	222450
		.0075	.0010	06/11/02	222960
		.0079	.0012	07/10/02	223468

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI) PB-214			
		.0049	.0014	09/04/02	224448
		.0085	.0009	10/02/02	224942
		.0034	.0011	10/29/02	225496
		.0076	.0013	11/25/02	225938
		.0322	.0025	12/23/02	226463
3109 PM5 DECATUR	8.0 MILES S	GROSS BETA			
		.0269	.0029	01/02/02	220090
		.0235	.0026	01/09/02	220179
		.0244	.0026	01/16/02	220282
		.0193	.0021	01/23/02	220390
		.0176	.0019	01/30/02	220575
		.0141	.0016	02/06/02	220668
		.0178	.0020	02/13/02	220777
		.0156	.0018	02/20/02	220880
		.0169	.0019	02/27/02	221036
		.0205	.0022	03/06/02	221133
		.0231	.0025	03/13/02	221246
		.0101	.0012	03/20/02	221356
		.0178	.0020	03/27/02	221508
		.0149	.0017	04/03/02	221623
		.0201	.0022	04/10/02	221740
		.0151	.0017	04/17/02	221848
		.0177	.0020	04/24/02	221990
		.0193	.0022	05/01/02	222179
		.0170	.0020	05/08/02	222296
		.0171	.0019	05/15/02	222411
		.0162	.0019	05/22/02	222550
		.0217	.0024	05/29/02	222685
		.0210	.0023	06/05/02	222809
		.0190	.0021	06/12/02	222919
		.0234	.0026	06/19/02	223074
		.0184	.0021	06/26/02	223171
		.0177	.0021	07/02/02	223321
		.0293	.0031	07/10/02	223429
		.0181	.0020	07/17/02	223562
		.0236	.0026	07/24/02	223685
		.0181	.0021	07/31/02	223814

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3109 PM5 DECATUR 8.0 MILES S	GROSS BETA	.0285	.0031	08/07/02	223920
		.0265	.0029	08/14/02	224053
		.0145	.0017	08/21/02	224147
		.0199	.0022	08/28/02	224291
		.0169	.0019	09/04/02	224408
		.0344	.0036	09/11/02	224561
		.0217	.0024	09/18/02	224668
		.0224	.0025	09/25/02	224797
		.0151	.0018	10/02/02	224904
		.0262	.0028	10/09/02	225041
		.0204	.0022	10/16/02	225136
		.0188	.0021	10/23/02	225243
		.0146	.0017	10/30/02	225451
		.0183	.0021	11/06/02	225593
		.0287	.0031	11/13/02	225685
		.0172	.0019	11/20/02	225792
		.0194	.0023	11/25/02	225899
		.0253	.0027	12/04/02	226058
		.0269	.0029	12/11/02	226153
		.0255	.0027	12/18/02	226276
		.0223	.0025	12/23/02	226418
	GAMMA SCAN (GELI) AC-228	.0030	.0014	06/12/02	222961
		.0041	.0010	10/02/02	224943
	BE-7	.0718	.0076	01/23/02	220429
		.0741	.0072	02/20/02	220920
		.0945	.0104	03/20/02	221398
		.0976	.0110	04/17/02	221888
		.1095	.0124	05/15/02	222451
		.1263	.0089	06/12/02	222961
		.1153	.0087	07/10/02	223469
		.0997	.0095	08/07/02	223959
		.0948	.0080	09/04/02	224449
		.0793	.0079	10/02/02	224943
		.0723	.0083	10/30/02	225497
		.0707	.0084	11/25/02	225939
		.0796	.0108	12/23/02	226464

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)			
		BI-214	.0125	.0017 01/23/02	220429
			.0123	.0020 02/20/02	220920
			.0185	.0019 03/20/02	221398
			.0083	.0012 04/17/02	221888
			.0147	.0024 05/15/02	222451
			.0013	.0007 06/12/02	222961
			.0043	.0012 07/10/02	223469
			.0011	.0012 09/04/02	224449
			.0198	.0021 10/02/02	224943
			.0092	.0013 10/30/02	225497
			.0155	.0024 11/25/02	225939
			.0338	.0032 12/23/02	226464
		K-40	.0035	.0080 01/23/02	220429
			.0077	.0051 02/20/02	220920
			.0049	.0059 03/20/02	221398
			.0090	.0058 04/17/02	221888
			.0072	.0075 06/12/02	222961
			.0137	.0070 12/23/02	226464
		PB-212	.0001	.0007 01/23/02	220429
		PB-214	.0137	.0015 01/23/02	220429
			.0122	.0012 02/20/02	220920
			.0186	.0015 03/20/02	221398
			.0087	.0010 04/17/02	221888
			.0167	.0023 05/15/02	222451
			.0029	.0010 06/12/02	222961
			.0036	.0011 07/10/02	223469
			.0009	.0010 09/04/02	224449
			.0155	.0016 10/02/02	224943
			.0086	.0015 10/30/02	225497
			.0181	.0024 11/25/02	225939
			.0358	.0022 12/23/02	226464
3203 LM3	1.9 MILES NNE	GROSS BETA	.0274	.0029 01/02/02	220093
			.0237	.0026 01/08/02	220192
			.0228	.0025 01/15/02	220284
			.0210	.0023 01/22/02	220395
			.0173	.0019 01/30/02	220578

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3203 LM3	1.9 MILES NNE	GROSS BETA	
		.0145	.0017 02/05/02 220681
		.0187	.0021 02/12/02 220779
		.0211	.0023 03/05/02 221147
		.0271	.0029 03/12/02 221248
		.0113	.0014 03/19/02 221362
		.0178	.0020 03/26/02 221511
		.0153	.0018 04/02/02 221637
		.0204	.0022 04/09/02 221742
		.0158	.0018 04/16/02 221854
		.0161	.0018 04/23/02 221993
		.0188	.0021 04/30/02 222196
		.0148	.0017 05/07/02 222298
		.0160	.0018 05/14/02 222417
		.0181	.0020 05/21/02 222553
		.0190	.0021 05/28/02 222700
		.0187	.0021 06/04/02 222811
		.0185	.0021 06/11/02 222925
		.0185	.0021 06/18/02 223077
		.0200	.0022 06/25/02 223184
		.0133	.0016 07/01/02 223324
		.0257	.0028 07/09/02 223435
		.0181	.0020 07/16/02 223565
		.0227	.0025 07/23/02 223698
		.0157	.0018 07/30/02 223816
		.0289	.0031 08/06/02 223925
		.0249	.0027 08/13/02 224056
		.0155	.0018 08/20/02 224161
		.0224	.0025 08/27/02 224293
		.0152	.0017 09/03/02 224413
		.0336	.0036 09/10/02 224564
		.0228	.0025 09/17/02 224681
		.0202	.0022 09/24/02 224799
		.0157	.0018 10/01/02 224909
		.0243	.0026 10/08/02 225044
		.0230	.0025 10/15/02 225149
		.0276	.0030 10/22/02 225245
		.0194	.0022 10/29/02 225460
		.0219	.0024 11/05/02 225596

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN AIR FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM3	1.9 MILES NNE	GROSS BETA			
		.0279	.0030	11/12/02	225698
		.0177	.0020	11/19/02	225794
		.0221	.0025	11/25/02	225905
		.0263	.0028	12/03/02	226061
		.0278	.0030	12/10/02	226168
		.0270	.0029	12/17/02	226278
		.0260	.0028	12/23/02	226425
	GAMMA SCAN (GELI)				
	AC-228	.0112	.0025	08/06/02	223960
	BE-7	.0743	.0075	01/22/02	220430
		.0880	.0109	02/19/02	220921
		.1001	.0096	03/19/02	221399
		.1049	.0077	04/16/02	221889
		.1028	.0093	05/14/02	222452
		.1136	.0095	06/11/02	222962
		.1143	.0110	07/09/02	223470
		.1036	.0079	08/06/02	223960
		.0913	.0075	09/03/02	224450
		.0816	.0079	10/01/02	224944
		.0752	.0082	10/29/02	225498
		.0712	.0063	11/25/02	225940
		.0820	.0094	12/23/02	226465
	BI-214	.0084	.0012	01/22/02	220430
		.0072	.0017	02/19/02	220921
		.0140	.0023	03/19/02	221399
		.0137	.0047	04/16/02	221889
		.0010	.0011	05/14/02	222452
		.0081	.0015	06/11/02	222962
		.0148	.0019	07/09/02	223470
		.0033	.0010	08/06/02	223960
		.0039	.0010	09/03/02	224450
		.0205	.0021	10/01/02	224944
		.0070	.0016	10/29/02	225498
		.0284	.0031	11/25/02	225940
		.0292	.0028	12/23/02	226465
	K-40	.0074	.0077	02/19/02	220921
		.0041	.0067	03/19/02	221399

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI)			
		K-40			
		.0083	.0057	04/16/02	221889
		.0122	.0077	05/14/02	222452
		.0048	.0071	07/09/02	223470
		.0065	.0103	08/06/02	223960
		.0038	.0055	10/29/02	225498
		.0094	.0064	12/23/02	226465
	PB-212	.0001	.0006	08/06/02	223960
		.0001	.0003	10/29/02	225498
	PB-214	.0093	.0018	01/22/02	220430
		.0069	.0015	02/19/02	220921
		.0165	.0017	03/19/02	221399
		.0063	.0012	04/16/02	221889
		.0031	.0011	05/14/02	222452
		.0077	.0012	06/11/02	222962
		.0097	.0014	07/09/02	223470
		.0038	.0009	08/06/02	223960
		.0033	.0009	09/03/02	224450
		.0188	.0023	10/01/02	224944
		.0075	.0011	10/29/02	225498
		.0313	.0027	11/25/02	225940
		.0317	.0025	12/23/02	226465
3204 LM-4 WB	0.9 MILES SE	GROSS BETA			
		.0284	.0030	01/02/02	220096
		.0242	.0027	01/08/02	220194
		.0230	.0025	01/16/02	220286
		.0228	.0025	01/22/02	220397
		.0161	.0018	01/30/02	220581
		.0164	.0019	02/05/02	220683
		.0171	.0019	02/13/02	220781
		.0166	.0019	02/19/02	220888
		.0209	.0023	02/26/02	221042
		.0191	.0021	03/05/02	221149
		.0258	.0028	03/13/02	221250
		.0106	.0013	03/19/02	221364
		.0174	.0019	03/27/02	221514
		.0162	.0019	04/02/02	221639
		.0200	.0022	04/09/02	221744

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GROSS BETA			
		.0155	.0018	04/16/02	221856
		.0182	.0020	04/24/02	221996
		.0203	.0023	04/30/02	222198
		.0150	.0017	05/08/02	222300
		.0185	.0021	05/14/02	222419
		.0175	.0020	05/22/02	222556
		.0203	.0023	05/28/02	222702
		.0208	.0023	06/05/02	222813
		.0184	.0021	06/11/02	222927
		.0192	.0021	06/19/02	223080
		.0197	.0022	06/25/02	223186
		.0170	.0020	07/02/02	223327
		.0274	.0029	07/09/02	223437
		.0178	.0020	07/17/02	223568
		.0209	.0023	07/23/02	223700
		.0188	.0021	07/31/02	223818
		.0327	.0035	08/06/02	223927
		.0247	.0027	08/14/02	224059
		.0135	.0016	08/20/02	224163
		.0221	.0024	08/27/02	224295
		.0167	.0019	09/03/02	224415
		.0340	.0036	09/11/02	224567
		.0228	.0025	09/17/02	224683
		.0197	.0025	09/25/02	224801
		.0265	.0028	10/09/02	225047
		.0211	.0023	10/16/02	225151
		.0271	.0029	10/23/02	225247
		.0203	.0023	10/29/02	225462
		.0191	.0021	11/06/02	225599
		.0308	.0033	11/12/02	225700
		.0202	.0022	11/20/02	225796
		.0204	.0023	11/25/02	225907
		.0272	.0029	12/03/02	226064
		.0259	.0028	12/10/02	226171
		.0308	.0033	12/18/02	226280
		.0220	.0025	12/23/02	226428
	GAMMA SCAN (GELI) AC-228	.0029	.0020	10/01/02	224945

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)		
	BE-7	.0660	.0072 01/22/02	220431
		.0760	.0074 02/19/02	220922
		.1012	.0074 03/19/02	221400
		.1141	.0085 04/16/02	221890
		.1121	.0116 05/14/02	222453
		.1319	.0120 06/11/02	222963
		.1238	.0117 07/09/02	223471
		.1071	.0106 08/06/02	223961
		.0944	.0078 09/03/02	224451
		.0945	.0113 10/01/02	224945
		.0786	.0062 10/29/02	225499
		.0710	.0085 11/25/02	225941
		.0879	.0077 12/23/02	226466
	BI-214	.0107	.0022 01/22/02	220431
		.0122	.0015 02/19/02	220922
		.0095	.0017 03/19/02	221400
		.0067	.0011 04/16/02	221890
		.0155	.0017 05/14/02	222453
		.0028	.0012 06/11/02	222963
		.0135	.0018 07/09/02	223471
		.0039	.0011 08/06/02	223961
		.0055	.0011 09/03/02	224451
		.0209	.0031 10/01/02	224945
		.0083	.0012 10/29/02	225499
		.0146	.0017 11/25/02	225941
		.0188	.0018 12/23/02	226466
	K-40	.0026	.0044 02/19/02	220922
		.0111	.0058 03/19/02	221400
		.0013	.0056 04/16/02	221890
		.0032	.0085 05/14/02	222453
		.0121	.0063 06/11/02	222963
		.0126	.0098 10/01/02	224945
		.0029	.0059 10/29/02	225499
		.0027	.0050 11/25/02	225941
		.0047	.0079 12/23/02	226466
	PB-212	.0010	.0007 05/14/02	222453
		.0009	.0007 12/23/02	226466
	PB-214	.0115	.0018 01/22/02	220431

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE GAMMA SCAN (GELI) PB-214	.0117	.0011	02/19/02	220922
		.0096	.0014	03/19/02	221400
		.0070	.0010	04/16/02	221890
		.0172	.0017	05/14/02	222453
		.0037	.0010	06/11/02	222963
		.0104	.0018	07/09/02	223471
		.0043	.0009	08/06/02	223961
		.0042	.0010	09/03/02	224451
		.0220	.0021	10/01/02	224945
		.0098	.0015	10/29/02	225499
		.0160	.0015	11/25/02	225941
		.0168	.0024	12/23/02	226466
3205 RM-3 WB	15 MILES NNW GROSS BETA	.0266	.0029	01/02/02	220099
		.0232	.0026	01/08/02	220196
		.0223	.0024	01/15/02	220288
		.0208	.0023	01/22/02	220399
		.0167	.0019	01/29/02	220584
		.0137	.0016	02/05/02	220685
		.0180	.0020	02/12/02	220783
		.0172	.0020	02/19/02	220890
		.0188	.0021	02/26/02	221045
		.0193	.0021	03/05/02	221151
		.0175	.0020	03/12/02	221252
		.0178	.0020	03/26/02	221517
		.0127	.0015	04/02/02	221641
		.0187	.0021	04/09/02	221746
		.0136	.0016	04/16/02	221858
		.0159	.0018	04/23/02	221999
		.0177	.0020	04/30/02	222200
		.0121	.0015	05/07/02	222302
		.0151	.0017	05/14/02	222421
		.0175	.0020	05/21/02	222559
		.0181	.0020	05/28/02	222704
		.0199	.0022	06/04/02	222815
		.0162	.0019	06/11/02	222929
		.0195	.0022	06/18/02	223083

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM	COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GROSS BETA				
		.0197	.0022	06/25/02	223188	
		.0142	.0017	07/01/02	223330	
		.0267	.0029	07/09/02	223439	
		.0173	.0020	07/16/02	223571	
		.0195	.0022	07/23/02	223702	
		.0166	.0019	07/30/02	223820	
		.0287	.0031	08/06/02	223929	
		.0228	.0025	08/13/02	224062	
		.0130	.0016	08/20/02	224165	
		.0207	.0023	08/27/02	224297	
		.0148	.0017	09/03/02	224417	
		.0302	.0032	09/10/02	224570	
		.0227	.0025	09/17/02	224685	
		.0192	.0022	09/24/02	224803	
		.0159	.0018	10/01/02	224913	
		.0229	.0025	10/08/02	225050	
		.0197	.0022	10/15/02	225153	
		.0227	.0025	10/22/02	225249	
		.0175	.0020	10/29/02	225464	
		.0176	.0020	11/05/02	225602	
		.0336	.0037	11/12/02	225702	
		.0135	.0017	11/19/02	225798	
		.0180	.0021	11/25/02	225909	
		.0247	.0026	12/03/02	226067	
		.0277	.0030	12/10/02	226174	
		.0250	.0027	12/17/02	226282	
	GAMMA SCAN (GELI)					
	BE-7					
		.0852	.0072	01/22/02	220432	
		.0847	.0076	02/19/02	220923	
		.0701	.0087	03/19/02	221401	
		.0899	.0080	04/16/02	221891	
		.1096	.0090	05/14/02	222454	
		.1294	.0104	06/11/02	222964	
		.1272	.0096	07/09/02	223472	
		.0966	.0095	08/06/02	223962	
		.0936	.0091	09/03/02	224452	
		.0891	.0089	10/01/02	224946	

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR	DATE	LAB NO
			TERM	COLLECTED	
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)	BE-7	.0701	.0070 10/29/02	225500
			.0645	.0072 11/25/02	225942
	BI-214		.0829	.0068 12/23/02	226467
			.0211	.0020 01/22/02	220432
			.0164	.0017 02/19/02	220923
			.0271	.0023 03/19/02	221401
			.0140	.0016 04/16/02	221891
			.0194	.0019 05/14/02	222454
			.0049	.0011 06/11/02	222964
			.0151	.0020 07/09/02	223472
			.0044	.0011 08/06/02	223962
			.0035	.0010 09/03/02	224452
			.0152	.0022 10/01/02	224946
			.0083	.0015 10/29/02	225500
			.0277	.0029 11/25/02	225942
			.0233	.0024 12/23/02	226467
	K-40		.0142	.0062 02/19/02	220923
			.0141	.0087 05/14/02	222454
			.0077	.0045 07/09/02	223472
			.0081	.0054 08/06/02	223962
			.0104	.0075 09/03/02	224452
			.0032	.0069 10/01/02	224946
			.0059	.0081 10/29/02	225500
			.0089	.0090 11/25/02	225942
			.0009	.0005 09/03/02	224452
			.0006	.0007 10/29/02	225500
	PB-212		.0196	.0015 01/22/02	220432
			.0175	.0014 02/19/02	220923
			.0276	.0020 03/19/02	221401
			.0126	.0015 04/16/02	221891
			.0209	.0019 05/14/02	222454
			.0054	.0009 06/11/02	222964
			.0169	.0017 07/09/02	223472
			.0035	.0011 08/06/02	223962
			.0026	.0011 09/03/02	224452
			.0163	.0014 10/01/02	224946
	PB-214		.0066	.0011 10/29/02	225500
			.0262	.0026 11/25/02	225942

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI) PB-214	.0220	.0030 12/23/02 226467

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	
		NO ACTIVITY DETECTED	08/13/02 224015
		NO ACTIVITY DETECTED	10/15/02 225103
		NO ACTIVITY DETECTED	10/29/02 225401
		NO ACTIVITY DETECTED	11/05/02 225555
		NO ACTIVITY DETECTED	11/19/02 225766
		NO ACTIVITY DETECTED	11/25/02 225860
		NO ACTIVITY DETECTED	12/10/02 226117
	BI-214	.1350	.0258 01/02/02 220052
		.0466	.0134 01/08/02 220146
		.0255	.0106 01/15/02 220256
		.0811	.0145 01/22/02 220349
		.0616	.0121 01/29/02 220537
		.1104	.0134 02/05/02 220635
		.0786	.0108 02/12/02 220751
		.0553	.0141 02/19/02 220840
		.0522	.0104 02/26/02 220998
		.0257	.0067 03/05/02 221100
		.0292	.0084 03/12/02 221220
		.0160	.0074 03/19/02 221315
		.0460	.0104 03/26/02 221470
		.0345	.0089 04/02/02 221591
		.0438	.0090 04/09/02 221714
		.0278	.0101 04/16/02 221809
		.0491	.0127 04/23/02 221952
		.0279	.0076 04/30/02 222130
		.0423	.0091 05/07/02 222270
		.0608	.0110 05/28/02 222653
		.0398	.0112 06/04/02 222783
		.0589	.0101 06/11/02 222878
		.0242	.0081 06/18/02 223036
		.0381	.0108 07/01/02 223278
		.0470	.0100 07/09/02 223390
		.0345	.0094 07/16/02 223524
		.0673	.0123 07/23/02 223653
		.0336	.0102 07/30/02 223788
		.0232	.0066 09/03/02 224361
		.0202	.0065 09/10/02 224523
		.0347	.0087 09/17/02 224635

-03-

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	
	BI-214	.0507	.0093 09/24/02 224771
		.0183	.0072 10/01/02 224864
		.0314	.0110 12/03/02 226020
		.0395	.0074 12/17/02 226246
		.0269	.0103 12/23/02 226368
	K-40	.3050	.0588 02/26/02 220998
		.2019	.0489 03/05/02 221100
		.3562	.0784 03/26/02 221470
		.3013	.0717 04/02/02 221591
		.2243	.0488 04/09/02 221714
		.2346	.0477 04/23/02 221952
		.2220	.0451 04/30/02 222130
		.1992	.0490 05/07/02 222270
		.3328	.0657 07/30/02 223788
		.1962	.0519 09/03/02 224361
		.2651	.0523 10/01/02 224864
		.3177	.0647 10/08/02 225003
		.3020	.0716 12/03/02 226020
		.3586	.0452 12/17/02 226246
	PB-212	.0010	.0039 04/02/02 221591
	PB-214	.1852	.0273 01/02/02 220052
		.0911	.0120 01/08/02 220146
		.0338	.0075 01/15/02 220256
		.1341	.0165 01/22/02 220349
		.0913	.0141 01/29/02 220537
		.1620	.0156 02/05/02 220635
		.1040	.0114 02/12/02 220751
		.1141	.0120 02/19/02 220840
		.0299	.0105 02/26/02 220998
		.0423	.0074 03/05/02 221100
		.0511	.0417 03/12/02 221220
		.0240	.0050 03/19/02 221315
		.0385	.0099 03/26/02 221470
		.0379	.0107 04/02/02 221591
		.0551	.0099 04/09/02 221714
		.0119	.0084 04/16/02 221809
		.0610	.0125 04/23/02 221952
		.0291	.0079 04/30/02 222130

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI) PB-214	.0582	.0117	05/07/02	222270
			.0345	.0086	05/14/02	222372
			.0464	.0100	05/21/02	222512
			.0804	.0153	05/28/02	222653
			.0644	.0115	06/04/02	222783
			.0967	.0119	06/11/02	222878
			.0390	.0089	06/18/02	223036
			.0486	.0094	06/25/02	223139
			.0702	.0117	07/01/02	223278
			.0652	.0105	07/09/02	223390
			.0339	.0076	07/16/02	223524
			.0700	.0116	07/23/02	223653
			.0248	.0070	07/30/02	223788
			.0090	.0057	08/06/02	223880
			.0270	.0069	08/20/02	224114
			.0240	.0061	08/27/02	224265
			.0178	.0071	09/03/02	224361
			.0573	.0151	09/10/02	224523
			.0629	.0242	09/17/02	224635
			.0408	.0086	09/24/02	224771
			.0223	.0104	10/08/02	225003
			.0421	.0104	10/22/02	225217
			.0194	.0119	11/12/02	225652
			.0251	.0089	12/03/02	226020
			.0602	.0143	12/17/02	226246
			.0456	.0092	12/23/02	226368
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		03/19/02	221346
			NO ACTIVITY DETECTED		04/02/02	221613
			NO ACTIVITY DETECTED		04/16/02	221838
			NO ACTIVITY DETECTED		05/14/02	222401
			NO ACTIVITY DETECTED		07/23/02	223675
			NO ACTIVITY DETECTED		07/30/02	223804
			NO ACTIVITY DETECTED		08/20/02	224137
			NO ACTIVITY DETECTED		08/27/02	224281
			NO ACTIVITY DETECTED		09/03/02	224398
			NO ACTIVITY DETECTED		09/10/02	224546

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		09/17/02	224658
		NO ACTIVITY DETECTED		09/24/02	224787
		NO ACTIVITY DETECTED		10/01/02	224894
		NO ACTIVITY DETECTED		10/08/02	225026
		NO ACTIVITY DETECTED		10/22/02	225233
		NO ACTIVITY DETECTED		10/29/02	225441
		NO ACTIVITY DETECTED		12/10/02	226141
	BI-214	.1221	.0152	01/02/02	220075
		.0405	.0094	01/08/02	220169
		.0465	.0118	01/15/02	220272
		.0464	.0115	01/22/02	220380
		.0171	.0076	01/29/02	220560
		.0564	.0114	02/05/02	220658
		.0347	.0099	02/12/02	220767
		.0364	.0110	02/19/02	220870
		.0567	.0119	02/26/02	221021
		.0210	.0055	03/05/02	221123
		.0087	.0092	03/12/02	221236
		.0764	.0108	03/26/02	221493
		.0299	.0097	04/09/02	221730
		.0051	.0077	04/23/02	221975
		.0324	.0113	05/07/02	222286
		.0201	.0088	05/21/02	222535
		.0321	.0096	05/28/02	222675
		.0391	.0118	06/04/02	222799
		.0457	.0114	06/11/02	222909
		.0230	.0077	06/18/02	223059
		.0277	.0089	07/01/02	223305
		.0261	.0094	07/16/02	223547
		.0303	.0086	08/06/02	223910
		.0260	.0106	08/13/02	224038
		.0241	.0078	12/17/02	226266
		.0458	.0102	12/23/02	226406
	K-40	.3506	.0551	01/02/02	220075
		.2525	.0471	01/15/02	220272
		.3401	.0626	01/22/02	220380
		.2189	.0396	01/29/02	220560
		.2132	.0463	02/19/02	220870

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)		
		K-40		
		.4224	.0468 03/12/02	221236
		.2944	.0600 03/26/02	221493
		.3314	.0555 05/07/02	222286
		.3908	.0726 06/04/02	222799
		.2206	.0506 06/11/02	222909
		.2482	.0721 07/16/02	223547
		.2006	.0495 08/06/02	223910
		.3287	.0732 12/17/02	226266
		.3967	.0939 12/23/02	226406
	PB-212	.0062	.0047 12/03/02	226043
	PB-214	.1478	.0159 01/02/02	220075
		.0249	.0090 01/08/02	220169
		.0640	.0122 01/15/02	220272
		.0317	.0086 01/22/02	220380
		.0255	.0083 01/29/02	220560
		.1005	.0122 02/05/02	220658
		.0373	.0075 02/12/02	220767
		.0421	.0121 02/19/02	220870
		.0554	.0096 02/26/02	221021
		.0237	.0073 03/05/02	221123
		.0141	.0061 03/12/02	221236
		.0855	.0125 03/26/02	221493
		.0447	.0091 04/09/02	221730
		.0172	.0096 04/23/02	221975
		.0047	.0053 04/30/02	222169
		.0327	.0084 05/07/02	222286
		.0158	.0105 05/21/02	222535
		.0202	.0079 05/28/02	222675
		.0383	.0090 06/04/02	222799
		.0331	.0124 06/11/02	222909
		.0258	.0072 06/18/02	223059
		.0256	.0075 06/25/02	223161
		.0182	.0077 07/01/02	223305
		.0200	.0070 07/09/02	223419
		.0435	.0121 07/16/02	223547
		.0309	.0111 08/06/02	223910
		.0332	.0120 08/13/02	224038
		.0044	.0082 10/15/02	225126

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI) PB-214			
		.0204	.0057	11/05/02	225578
		.0171	.0073	11/12/02	225675
		.0268	.0108	11/19/02	225782
		.0245	.0080	11/25/02	225889
		.0271	.0106	12/03/02	226043
		.0469	.0108	12/17/02	226266
		.0683	.0119	12/23/02	226406
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		01/08/02	220172
		NO ACTIVITY DETECTED		03/19/02	221349
		NO ACTIVITY DETECTED		04/16/02	221841
		NO ACTIVITY DETECTED		04/30/02	222172
		NO ACTIVITY DETECTED		07/16/02	223551
		NO ACTIVITY DETECTED		07/30/02	223807
		NO ACTIVITY DETECTED		08/20/02	224140
		NO ACTIVITY DETECTED		08/27/02	224284
		NO ACTIVITY DETECTED		10/15/02	225129
		NO ACTIVITY DETECTED		10/29/02	225444
		NO ACTIVITY DETECTED		11/12/02	225678
	BI-214	.0454	.0107	01/02/02	220079
		.0443	.0084	01/15/02	220275
		.0584	.0122	01/22/02	220383
		.0159	.0073	01/29/02	220564
		.0406	.0105	02/05/02	220661
		.0450	.0088	02/12/02	220770
		.0469	.0100	02/19/02	220873
		.0295	.0099	02/26/02	221025
		.0807	.0287	03/05/02	221126
		.0540	.0118	03/12/02	221239
		.0539	.0106	03/26/02	221497
		.0401	.0116	04/02/02	221616
		.0267	.0076	05/21/02	222539
		.0458	.0111	05/28/02	222678
		.0377	.0098	06/04/02	222802
		.0538	.0098	06/18/02	223063
		.0309	.0090	06/25/02	223164
		.0347	.0092	07/01/02	223309

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2	GAMMA SCAN (GELI) BI-214	.0454	.0103	07/09/02	223422
		.0358	.0118	07/23/02	223678
		.0317	.0101	08/06/02	223913
		.0205	.0089	08/13/02	224042
		.0132	.0071	09/03/02	224401
		.0189	.0092	09/10/02	224550
		.0229	.0090	09/17/02	224661
		.0534	.0100	09/24/02	224790
		.0162	.0098	10/08/02	225030
		.0117	.0073	10/22/02	225236
		.0217	.0090	11/05/02	225582
		.0226	.0090	11/19/02	225785
		.0221	.0095	12/03/02	226047
		.0161	.0103	12/10/02	226145
		.0302	.0095	12/17/02	226269
		.0527	.0109	12/23/02	226410
	K-40	.2483	.0512	01/02/02	220079
		.1895	.0359	01/22/02	220383
		.3347	.0644	01/29/02	220564
		.1862	.0618	02/26/02	221025
		.3885	.1325	03/05/02	221126
		.3188	.0741	03/26/02	221497
		.1976	.0716	04/02/02	221616
		.3245	.0587	05/21/02	222539
		.3136	.0627	05/28/02	222678
		.2767	.0541	06/04/02	222802
		.2165	.0508	06/25/02	223164
		.3825	.0736	07/23/02	223678
		.4271	.0512	08/06/02	223913
		.3615	.0602	08/13/02	224042
		.2641	.0528	09/03/02	224401
		.2830	.0600	09/17/02	224661
		.3538	.0785	10/08/02	225030
		.3546	.0532	10/22/02	225236
		.3319	.0662	11/05/02	225582
		.2328	.0474	11/19/02	225785
		.1220	.0574	12/03/02	226047
		.2856	.0558	12/10/02	226145

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI) PB-214		
		.0367	.0082 01/02/02	220079
		.0511	.0098 01/15/02	220275
		.0424	.0078 01/22/02	220383
		.0274	.0061 01/29/02	220564
		.0805	.0186 02/05/02	220661
		.0785	.0138 02/12/02	220770
		.0737	.0093 02/19/02	220873
		.0343	.0078 02/26/02	221025
		.1276	.0210 03/05/02	221126
		.0422	.0095 03/12/02	221239
		.0789	.0145 03/26/02	221497
		.0459	.0125 04/02/02	221616
		.0164	.0075 04/09/02	221733
		.0096	.0069 04/23/02	221979
		.0113	.0031 05/07/02	222289
		.0248	.0111 05/14/02	222404
		.0347	.0080 05/21/02	222539
		.0382	.0108 05/28/02	222678
		.0427	.0097 06/04/02	222802
		.0230	.0092 06/11/02	222912
		.0496	.0091 06/18/02	223063
		.0482	.0082 06/25/02	223164
		.0283	.0104 07/01/02	223309
		.0415	.0086 07/09/02	223422
		.0401	.0120 07/23/02	223678
		.0315	.0098 08/06/02	223913
		.0174	.0069 08/13/02	224042
		.0072	.0056 09/03/02	224401
		.0212	.0069 09/10/02	224550
		.0430	.0092 09/24/02	224790
		.0266	.0091 10/01/02	224897
		.0104	.0118 10/08/02	225030
		.0258	.0083 10/22/02	225236
		.0200	.0077 11/19/02	225785
		.0341	.0130 11/25/02	225892
		.0186	.0049 12/03/02	226047
		.0427	.0088 12/10/02	226145
		.0418	.0083 12/17/02	226269

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI) PB-214	.0633	.0130 12/23/02	226410
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		01/08/02	220174
		NO ACTIVITY DETECTED		04/02/02	221618
		NO ACTIVITY DETECTED		04/16/02	221843
		NO ACTIVITY DETECTED		05/07/02	222291
		NO ACTIVITY DETECTED		05/21/02	222542
		NO ACTIVITY DETECTED		06/25/02	223166
		NO ACTIVITY DETECTED		08/13/02	224045
		NO ACTIVITY DETECTED		08/20/02	224142
		NO ACTIVITY DETECTED		08/27/02	224286
		NO ACTIVITY DETECTED		09/10/02	224553
		NO ACTIVITY DETECTED		09/17/02	224663
		NO ACTIVITY DETECTED		10/08/02	225033
		NO ACTIVITY DETECTED		10/29/02	225446
		NO ACTIVITY DETECTED		11/12/02	225680
		NO ACTIVITY DETECTED		11/25/02	225894
		NO ACTIVITY DETECTED		12/10/02	226148
	BI-214	.0538	.0116	01/02/02	220082
		.0553	.0129	01/15/02	220277
		.0388	.0099	01/22/02	220385
		.0204	.0085	01/29/02	220567
		.0468	.0105	02/05/02	220663
		.0228	.0098	02/12/02	220772
		.0428	.0123	02/19/02	220875
		.0142	.0059	03/05/02	221128
		.0381	.0104	03/12/02	221241
		.0240	.0061	03/19/02	221351
		.0522	.0136	03/26/02	221500
		.0148	.0070	04/09/02	221735
		.0236	.0060	04/23/02	221982
		.0367	.0096	06/04/02	222804
		.0297	.0106	06/11/02	222914
		.0279	.0085	06/18/02	223066
		.0245	.0089	07/09/02	223424
		.0249	.0091	07/16/02	223554
		.0229	.0086	07/30/02	223809

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI) BI-214	.0625	.0117	09/24/02	224792
			.0161	.0073	10/15/02	225131
			.0127	.0077	11/05/02	225585
			.0366	.0105	12/23/02	226413
			.2223	.0635	01/15/02	220277
			.2094	.0478	01/22/02	220385
			.1350	.0455	01/29/02	220567
			.2594	.0467	02/12/02	220772
			.3240	.0626	03/05/02	221128
			.2841	.0479	03/19/02	221351
			.3260	.0545	04/09/02	221735
			.2031	.0349	04/23/02	221982
			.4249	.0848	06/18/02	223066
			.2923	.0576	07/09/02	223424
			.4424	.0853	07/16/02	223554
			.2667	.0663	07/30/02	223809
			.3853	.0768	09/03/02	224403
			.2336	.0458	10/22/02	225238
			.3983	.0593	11/05/02	225585
			.1489	.0341	12/03/02	226050
		PB-214	.0710	.0102	01/02/02	220082
			.0765	.0116	01/15/02	220277
			.0602	.0100	01/22/02	220385
			.0346	.0094	01/29/02	220567
			.0449	.0082	02/05/02	220663
			.0336	.0052	02/12/02	220772
			.0415	.0081	02/19/02	220875
			.0224	.0057	02/26/02	221028
			.0299	.0071	03/05/02	221128
			.0504	.0098	03/12/02	221241
			.0318	.0129	03/19/02	221351
			.0563	.0079	03/26/02	221500
			.0292	.0089	04/09/02	221735
			.0432	.0099	04/23/02	221982
			.0133	.0068	04/30/02	222174
			.0337	.0080	05/14/02	222406
			.0144	.0074	05/28/02	222680
			.0215	.0088	06/04/02	222804

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI) PB-214			
		.0236	.0082	06/11/02	222914
		.0314	.0081	06/18/02	223066
		.0119	.0064	07/01/02	223312
		.0351	.0074	07/09/02	223424
		.0345	.0110	07/16/02	223554
		.0355	.0091	07/23/02	223680
		.0147	.0085	07/30/02	223809
		.0156	.0068	08/06/02	223915
		.0730	.0144	09/24/02	224792
		.0155	.0058	10/01/02	224899
		.0239	.0066	10/15/02	225131
		.0191	.0088	10/22/02	225238
		.0191	.0091	11/05/02	225585
		.0277	.0081	11/19/02	225787
		.0171	.0070	12/03/02	226050
		.0419	.0096	12/17/02	226271
		.0267	.0064	12/23/02	226413
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		01/08/02	220176
		NO ACTIVITY DETECTED		03/05/02	221130
		NO ACTIVITY DETECTED		03/12/02	221243
		NO ACTIVITY DETECTED		04/16/02	221845
		NO ACTIVITY DETECTED		04/23/02	221985
		NO ACTIVITY DETECTED		05/07/02	222293
		NO ACTIVITY DETECTED		07/01/02	223315
		NO ACTIVITY DETECTED		07/23/02	223682
		NO ACTIVITY DETECTED		07/30/02	223811
		NO ACTIVITY DETECTED		08/13/02	224048
		NO ACTIVITY DETECTED		09/03/02	224405
		NO ACTIVITY DETECTED		09/17/02	224665
		NO ACTIVITY DETECTED		10/08/02	225036
		NO ACTIVITY DETECTED		10/15/02	225133
		NO ACTIVITY DETECTED		10/29/02	225448
		NO ACTIVITY DETECTED		11/05/02	225588
		NO ACTIVITY DETECTED		11/19/02	225789
		NO ACTIVITY DETECTED		12/17/02	226273
		AC-228	.0158	.0144 02/12/02	220774

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI) BI-214	.0710	.0148 01/02/02	220085
			.0251	.0080 01/15/02	220279
			.0312	.0112 01/29/02	220570
			.0510	.0128 02/05/02	220665
			.0875	.0101 02/12/02	220774
			.0840	.0200 02/19/02	220877
			.0174	.0107 02/26/02	221031
			.0344	.0090 03/19/02	221353
			.0174	.0087 03/26/02	221503
			.0164	.0072 04/02/02	221620
			.0207	.0085 05/14/02	222408
			.0435	.0109 05/28/02	222682
			.0122	.0061 06/04/02	222806
			.0073	.0062 06/11/02	222916
			.0186	.0063 06/18/02	223069
			.0192	.0067 07/09/02	223426
			.0313	.0076 08/06/02	223917
			.0117	.0063 08/20/02	224144
			.0126	.0066 08/27/02	224288
			.0213	.0095 09/10/02	224556
			.0157	.0090 09/24/02	224794
			.0126	.0065 11/12/02	225682
			.0223	.0102 12/10/02	226150
			.0078	.0066 12/23/02	226415
	K-40		.2377	.0467 01/02/02	220085
			.2070	.0631 01/15/02	220279
			.6981	.0744 02/12/02	220774
			.2580	.0514 03/26/02	221503
			.2791	.0545 04/09/02	221737
			.2058	.0408 05/14/02	222408
			.2502	.0487 06/04/02	222806
			.2294	.0597 06/11/02	222916
			.2495	.0558 08/06/02	223917
			.2464	.0573 08/20/02	224144
			.2500	.0557 08/27/02	224288
			.3299	.0489 09/10/02	224556
			.2104	.0527 09/24/02	224794
			.3389	.0642 10/01/02	224901

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI)			
		K-40	.2589	.0468 11/12/02	225682
			.2042	.0386 12/23/02	226415
		PB-212	.0060	.0040 04/30/02	222176
			.0060	.0037 08/27/02	224288
		PB-214	.0642	.0137 01/02/02	220085
			.0256	.0087 01/15/02	220279
			.0445	.0100 01/22/02	220387
			.0450	.0098 01/29/02	220570
			.0629	.0111 02/05/02	220665
			.0870	.0109 02/12/02	220774
			.1217	.0158 02/19/02	220877
			.0377	.0128 02/26/02	221031
			.0421	.0096 03/19/02	221353
			.0240	.0079 03/26/02	221503
			.0306	.0096 04/02/02	221620
			.0310	.0073 05/14/02	222408
			.0106	.0097 05/21/02	222545
			.0174	.0076 05/28/02	222682
			.0211	.0075 06/04/02	222806
			.0261	.0085 06/11/02	222916
			.0205	.0098 06/18/02	223069
			.0075	.0053 06/25/02	223168
			.0281	.0081 07/09/02	223426
			.0232	.0099 07/16/02	223557
			.0187	.0067 08/06/02	223917
			.0122	.0048 08/20/02	224144
			.0246	.0063 09/10/02	224556
			.0276	.0072 09/24/02	224794
			.0043	.0056 10/22/02	225240
			.0232	.0101 11/25/02	225896
			.0225	.0068 12/03/02	226053
			.0198	.0074 12/10/02	226150
			.0231	.0074 12/23/02	226415
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)			
				03/13/02	221245
				04/16/02	221847
				04/24/02	221988

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		04/30/02	222178
		NO ACTIVITY DETECTED		05/28/02	222684
		NO ACTIVITY DETECTED		07/17/02	223560
		NO ACTIVITY DETECTED		07/31/02	223813
		NO ACTIVITY DETECTED		08/14/02	224051
		NO ACTIVITY DETECTED		08/21/02	224146
		NO ACTIVITY DETECTED		08/27/02	224290
		NO ACTIVITY DETECTED		09/11/02	224559
		NO ACTIVITY DETECTED		09/18/02	224667
		NO ACTIVITY DETECTED		10/16/02	225135
		NO ACTIVITY DETECTED		10/29/02	225450
		NO ACTIVITY DETECTED		11/06/02	225591
		NO ACTIVITY DETECTED		11/13/02	225684
		NO ACTIVITY DETECTED		12/04/02	226056
		NO ACTIVITY DETECTED		12/11/02	226152
	BI-214	.0574	.0093	01/02/02	220088
		.0929	.0203	01/08/02	220178
		.0402	.0097	01/16/02	220281
		.1163	.0175	01/22/02	220389
		.0557	.0096	02/05/02	220667
		.0315	.0088	02/19/02	220879
		.0211	.0098	02/27/02	221034
		.0427	.0125	03/05/02	221132
		.0155	.0059	03/19/02	221355
		.0202	.0067	03/27/02	221506
		.0246	.0083	04/02/02	221622
		.0193	.0069	04/10/02	221739
		.0326	.0117	05/22/02	222548
		.0300	.0088	06/11/02	222918
		.0214	.0077	06/26/02	223170
		.0317	.0123	07/02/02	223319
		.0155	.0068	09/25/02	224796
		.0087	.0063	10/09/02	225039
		.0236	.0081	10/23/02	225242
		.0165	.0085	11/20/02	225791
		.0190	.0098	11/25/02	225898
	K-40	.4133	.0916	01/08/02	220178
		.3281	.0554	02/13/02	220776

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)			
		K-40			
		.1910	.0604	02/19/02	220879
		.2167	.0453	02/27/02	221034
		.3347	.0717	03/19/02	221355
		.2628	.0461	03/27/02	221506
		.2780	.0715	06/26/02	223170
		.4541	.0783	07/02/02	223319
		.2837	.0486	10/09/02	225039
		.2050	.0702	10/23/02	225242
	PB-212	.0037	.0052	01/16/02	220281
		.0074	.0042	01/22/02	220389
	PB-214	.0569	.0102	01/02/02	220088
		.1271	.0195	01/08/02	220178
		.0466	.0091	01/16/02	220281
		.1396	.0196	01/22/02	220389
		.0201	.0049	01/30/02	220573
		.0746	.0140	02/05/02	220667
		.0440	.0126	02/19/02	220879
		.0314	.0067	02/27/02	221034
		.0428	.0104	03/05/02	221132
		.0231	.0070	03/19/02	221355
		.0315	.0082	03/27/02	221506
		.0463	.0120	04/02/02	221622
		.0256	.0067	04/10/02	221739
		.0079	.0064	04/08/02	222295
		.0150	.0065	05/14/02	222410
		.0467	.0117	05/22/02	222548
		.0176	.0073	06/05/02	222808
		.0369	.0095	06/11/02	222918
		.0276	.0088	06/19/02	223072
		.0402	.0125	06/26/02	223170
		.0228	.0137	07/02/02	223319
		.0194	.0097	07/10/02	223428
		.1049	.0372	07/24/02	223684
		.0294	.0092	08/07/02	223919
		.0272	.0106	09/04/02	224407
		.0199	.0091	09/25/02	224796
		.0098	.0074	10/02/02	224903
		.0109	.0052	10/09/02	225039

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI) PB-214			
		.0251	.0143	10/23/02	225242
		.0187	.0096	11/20/02	225791
		.0208	.0087	11/25/02	225898
		.0345	.0090	12/18/02	226275
		.0304	.0096	12/23/02	226417
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		02/13/02	220778
		NO ACTIVITY DETECTED		03/20/02	221357
		NO ACTIVITY DETECTED		04/24/02	221991
		NO ACTIVITY DETECTED		05/01/02	222180
		NO ACTIVITY DETECTED		07/31/02	223815
		NO ACTIVITY DETECTED		08/21/02	224148
		NO ACTIVITY DETECTED		09/11/02	224562
		NO ACTIVITY DETECTED		09/25/02	224798
		NO ACTIVITY DETECTED		10/02/02	224905
		NO ACTIVITY DETECTED		10/09/02	225042
		NO ACTIVITY DETECTED		10/16/02	225137
		NO ACTIVITY DETECTED		11/25/02	225900
		NO ACTIVITY DETECTED		12/04/02	226059
		NO ACTIVITY DETECTED		12/11/02	226155
	BI-214	.0225	.0080	01/02/02	220091
		.0203	.0085	01/09/02	220180
		.0408	.0105	01/16/02	220283
		.0595	.0112	01/23/02	220391
		.0391	.0084	02/06/02	220669
		.0266	.0100	02/20/02	220881
		.0536	.0108	02/27/02	221037
		.0105	.0076	03/13/02	221247
		.0392	.0137	03/27/02	221509
		.0103	.0081	04/03/02	221624
		.0117	.0075	04/10/02	221741
		.0280	.0079	04/17/02	221849
		.0156	.0095	05/08/02	222297
		.0163	.0065	05/15/02	222412
		.0122	.0076	05/22/02	222551
		.0668	.0146	05/29/02	222686
		.0345	.0123	06/12/02	222920

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)			
		BI-214	.0276	.0096 07/10/02	223430
			.0448	.0156 07/17/02	223563
			.0572	.0109 07/24/02	223686
			.0382	.0095 08/07/02	223921
			.0194	.0085 09/18/02	224669
			.0158	.0097 11/06/02	225594
			.0372	.0116 11/13/02	225686
			.0134	.0088 11/20/02	225793
			.0131	.0078 12/18/02	226277
	K-40		.2290	.0808 01/02/02	220091
			.3153	.0714 01/16/02	220283
			.1681	.0618 01/23/02	220391
			.2601	.0479 01/30/02	220576
			.2782	.0550 02/06/02	220669
			.1072	.0570 02/20/02	220881
			.2149	.0649 03/13/02	221247
			.2362	.0847 03/27/02	221509
			.3627	.0672 04/10/02	221741
			.2698	.0639 04/17/02	221849
			.2216	.0828 05/08/02	222297
			.1504	.0643 05/15/02	222412
			.1785	.0507 05/22/02	222551
			.3040	.0688 06/12/02	222920
			.3403	.0812 07/10/02	223430
			.2542	.0475 07/24/02	223686
			.2484	.0720 08/07/02	223921
			.2861	.0521 08/14/02	224054
			.2784	.0595 09/04/02	224409
			.2829	.0736 09/18/02	224669
			.3141	.0437 11/06/02	225594
			.3559	.0890 11/20/02	225793
			.2463	.0925 12/18/02	226277
	PB-212		.0019	.0052 08/07/02	223921
			.0047	.0052 09/18/02	224669
			.0023	.0038 12/18/02	226277
			.0020	.0069 12/23/02	226420
	PB-214		.0254	.0090 01/02/02	220091
			.0293	.0061 01/16/02	220283

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED	LAB NO
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI) PB-214	.0601	.0105 01/23/02	220391
			.0343	.0077 01/30/02	220576
			.0303	.0091 02/06/02	220669
			.0245	.0091 02/20/02	220881
			.0389	.0081 02/27/02	221037
			.0310	.0070 03/06/02	221134
			.0208	.0085 03/13/02	221247
			.0327	.0073 03/27/02	221509
			.0169	.0083 04/03/02	221624
			.0267	.0077 04/10/02	221741
			.0197	.0081 04/17/02	221849
			.0167	.0074 05/08/02	222297
			.0358	.0079 05/15/02	222412
			.0330	.0093 05/22/02	222551
			.0664	.0128 05/29/02	222686
			.0229	.0083 06/05/02	222810
			.0367	.0122 06/12/02	222920
			.0087	.0050 06/19/02	223075
			.0106	.0106 06/26/02	223172
			.0366	.0084 07/02/02	223322
			.0333	.0076 07/10/02	223430
			.0590	.0088 07/17/02	223563
			.0728	.0108 07/24/02	223686
			.0243	.0099 08/07/02	223921
			.0294	.0109 08/28/02	224292
			.0121	.0084 09/18/02	224669
			.0281	.0090 10/23/02	225244
			.0251	.0080 10/30/02	225452
			.0291	.0063 11/06/02	225594
			.0358	.0072 11/13/02	225686
			.0201	.0058 11/20/02	225793
			.0435	.0106 12/18/02	226277
			.0235	.0101 12/23/02	226420
3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	03/19/02	221363
			NO ACTIVITY DETECTED	04/09/02	221743
			NO ACTIVITY DETECTED	04/30/02	222197

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		05/21/02	222554
		NO ACTIVITY DETECTED		06/25/02	223185
		NO ACTIVITY DETECTED		08/20/02	224162
		NO ACTIVITY DETECTED		08/27/02	224294
		NO ACTIVITY DETECTED		09/10/02	224565
		NO ACTIVITY DETECTED		09/17/02	224682
		NO ACTIVITY DETECTED		10/08/02	225045
		NO ACTIVITY DETECTED		12/10/02	226170
	BI-214	.0424	.0126	01/08/02	220193
		.0503	.0094	01/15/02	220285
		.1349	.0174	01/22/02	220396
		.0356	.0110	01/30/02	220579
		.0530	.0150	02/05/02	220682
		.0819	.0156	02/12/02	220780
		.0245	.0078	03/12/02	221249
		.0663	.0118	03/26/02	221512
		.0510	.0109	04/02/02	221638
		.0135	.0068	04/16/02	221855
		.0205	.0082	05/14/02	222418
		.0537	.0134	05/28/02	222701
		.0311	.0120	06/11/02	222926
		.0132	.0057	06/18/02	223078
		.0419	.0095	07/16/02	223566
		.0518	.0112	07/23/02	223699
		.0193	.0083	08/13/02	224057
		.0147	.0075	09/03/02	224414
		.0337	.0084	09/24/02	224800
		.0159	.0101	10/15/02	225150
		.0214	.0090	10/22/02	225246
		.0203	.0088	10/29/02	225461
		.0212	.0092	11/19/02	225795
		.0184	.0085	12/03/02	226062
		.0213	.0086	12/23/02	226427
	K-40	.2151	.0558	01/08/02	220193
		.2217	.0675	01/15/02	220285
		.2859	.0606	01/22/02	220396
		.2343	.0730	03/12/02	221249
		.3206	.0671	04/02/02	221638

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI)	
		K-40	
		.2042	.0381 05/14/02 222418
		.3699	.0796 05/28/02 222701
		.3762	.0509 06/11/02 222926
		.2704	.0494 07/16/02 223566
		.2779	.0546 08/13/02 224057
		.2585	.0432 09/03/02 224414
		.2815	.0652 10/15/02 225150
		.3361	.0607 10/22/02 225246
		.2596	.0630 10/29/02 225461
		.1848	.0448 11/19/02 225795
		.2396	.0591 12/03/02 226062
	PB-214	.0250	.0072 01/02/02 220094
		.0380	.0131 01/08/02 220193
		.0691	.0128 01/15/02 220285
		.1363	.0119 01/22/02 220396
		.0531	.0120 01/30/02 220579
		.0897	.0179 02/05/02 220682
		.0899	.0116 02/12/02 220780
		.0503	.0099 03/05/02 221148
		.0179	.0057 03/12/02 221249
		.0737	.0133 03/26/02 221512
		.0749	.0124 04/02/02 221638
		.0252	.0084 04/23/02 221994
		.0336	.0086 05/07/02 222299
		.0199	.0045 05/14/02 222418
		.0707	.0106 05/28/02 222701
		.0319	.0075 06/04/02 222812
		.0391	.0090 06/11/02 222926
		.0182	.0069 07/01/02 223325
		.0358	.0070 07/09/02 223436
		.0347	.0077 07/16/02 223566
		.0808	.0128 07/23/02 223699
		.0063	.0066 07/30/02 223817
		.0295	.0083 08/06/02 223926
		.0209	.0065 08/13/02 224057
		.0140	.0077 09/03/02 224414
		.0416	.0090 09/24/02 224800
		.0074	.0047 10/01/02 224910

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI) PB-214			
		.0158	.0075	10/15/02	225150
		.0208	.0080	10/22/02	225246
		.0226	.0061	10/29/02	225461
		.0147	.0062	11/05/02	225597
		.0187	.0093	11/12/02	225699
		.0301	.0065	11/19/02	225795
		.0193	.0068	11/25/02	225906
		.0237	.0069	12/03/02	226062
		.0332	.0091	12/17/02	226279
		.0331	.0096	12/23/02	226427
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		01/08/02	220195
		NO ACTIVITY DETECTED		04/02/02	221640
		NO ACTIVITY DETECTED		04/09/02	221745
		NO ACTIVITY DETECTED		04/24/02	221997
		NO ACTIVITY DETECTED		04/30/02	222199
		NO ACTIVITY DETECTED		05/08/02	222301
		NO ACTIVITY DETECTED		05/14/02	222420
		NO ACTIVITY DETECTED		06/05/02	222814
		NO ACTIVITY DETECTED		07/31/02	223819
		NO ACTIVITY DETECTED		08/06/02	223928
		NO ACTIVITY DETECTED		08/27/02	224296
		NO ACTIVITY DETECTED		10/09/02	225048
		NO ACTIVITY DETECTED		11/20/02	225797
		NO ACTIVITY DETECTED		12/03/02	226065
		NO ACTIVITY DETECTED		12/23/02	226430
	BI-214	.0375	.0099	01/02/02	220097
		.0739	.0164	01/16/02	220287
		.1460	.0204	01/22/02	220398
		.0069	.0062	01/30/02	220582
		.0603	.0129	02/05/02	220684
		.0258	.0068	02/13/02	220782
		.0429	.0086	02/19/02	220889
		.0461	.0112	02/26/02	221043
		.0307	.0092	03/05/02	221150
		.0207	.0079	03/19/02	221365
		.0371	.0112	03/27/02	221515

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CHARCOAL FILTER
 PCI/M3 - 0.037 BQ/M3
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)			
	BI-214	.0487	.0099	05/28/02	222703
		.0310	.0103	06/11/02	222928
		.0557	.0119	07/02/02	223328
		.0454	.0092	07/09/02	223438
		.0144	.0077	07/23/02	223701
		.0204	.0056	09/03/02	224416
		.0802	.0198	09/25/02	224802
		.0159	.0103	11/12/02	225701
		.0320	.0110	12/10/02	226173
	K-40	.1767	.0563	01/16/02	220287
		.3453	.0412	02/05/02	220684
		.1967	.0524	02/13/02	220782
		.2583	.0367	02/26/02	221043
		.3120	.0695	03/05/02	221150
		.2573	.0551	03/19/02	221365
		.2983	.0495	03/27/02	221515
		.2063	.0449	04/16/02	221857
		.3146	.0635	05/28/02	222703
		.4781	.0684	07/02/02	223328
		.3295	.0730	07/09/02	223438
		.3066	.0565	07/23/02	223701
		.3346	.0714	08/14/02	224060
		.2046	.0643	08/20/02	224164
		.2623	.0723	09/11/02	224568
		.3172	.0604	09/17/02	224684
		.5118	.1252	09/25/02	224802
		.2932	.0706	11/12/02	225701
	PB-214	.0305	.0067	01/02/02	220097
		.0792	.0129	01/16/02	220287
		.1504	.0277	01/22/02	220398
		.0461	.0090	02/05/02	220684
		.0226	.0074	02/13/02	220782
		.0403	.0118	02/19/02	220889
		.0484	.0112	02/26/02	221043
		.0427	.0113	03/05/02	221150
		.0098	.0057	03/13/02	221251
		.0166	.0054	03/19/02	221365
		.0322	.0079	03/27/02	221515

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI) PB-214			
		.0081	.0094	05/22/02	222557
		.0489	.0093	05/28/02	222703
		.0318	.0099	06/11/02	222928
		.0276	.0104	06/19/02	223081
		.0126	.0064	06/25/02	223187
		.0653	.0091	07/09/02	223438
		.0207	.0078	07/17/02	223569
		.0322	.0105	07/23/02	223701
		.0162	.0086	08/20/02	224164
		.0300	.0113	09/03/02	224416
		.0125	.0077	09/11/02	224568
		.0874	.0177	09/25/02	224802
		.0132	.0075	10/16/02	225152
		.0335	.0079	10/23/02	225248
		.0089	.0062	10/29/02	225463
		.0197	.0058	11/06/02	225600
		.0227	.0096	11/12/02	225701
		.0238	.0088	11/25/02	225908
		.0122	.0088	12/10/02	226173
		.0226	.0056	12/18/02	226281
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)			
		NO ACTIVITY DETECTED		01/08/02	220197
		NO ACTIVITY DETECTED		01/29/02	220585
		NO ACTIVITY DETECTED		02/26/02	221046
		NO ACTIVITY DETECTED		03/19/02	221367
		NO ACTIVITY DETECTED		04/16/02	221859
		NO ACTIVITY DETECTED		04/23/02	222000
		NO ACTIVITY DETECTED		04/30/02	222201
		NO ACTIVITY DETECTED		05/07/02	222303
		NO ACTIVITY DETECTED		06/25/02	223189
		NO ACTIVITY DETECTED		07/30/02	223821
		NO ACTIVITY DETECTED		08/13/02	224063
		NO ACTIVITY DETECTED		08/20/02	224166
		NO ACTIVITY DETECTED		08/27/02	224298
		NO ACTIVITY DETECTED		09/17/02	224686
		NO ACTIVITY DETECTED		10/08/02	225051
		NO ACTIVITY DETECTED		10/15/02	225154

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)	
		NO ACTIVITY DETECTED	10/29/02 225465
		NO ACTIVITY DETECTED	11/05/02 225603
		NO ACTIVITY DETECTED	11/12/02 225703
	BI-214	.0166	.0069 01/15/02 220289
		.1320	.0178 01/22/02 220400
		.0316	.0093 02/05/02 220686
		.0314	.0105 02/12/02 220784
		.0737	.0149 02/19/02 220891
		.0309	.0082 03/05/02 221152
		.0161	.0053 03/12/02 221253
		.0381	.0092 03/26/02 221518
		.0226	.0093 04/02/02 221642
		.0182	.0069 05/14/02 222422
		.0458	.0105 05/21/02 222560
		.0429	.0087 05/28/02 222705
		.0269	.0076 06/04/02 222816
		.0130	.0091 06/18/02 223084
		.0257	.0099 07/01/02 223331
		.0179	.0069 07/16/02 223572
		.0202	.0067 07/23/02 223703
		.0196	.0080 08/06/02 223930
		.0133	.0066 12/10/02 226176
		.0171	.0124 12/17/02 226283
	K-40	.1965	.0483 01/15/02 220289
		.1865	.0552 02/05/02 220686
		.1929	.0359 02/12/02 220784
		.2456	.0561 03/05/02 221152
		.2538	.0663 03/12/02 221253
		.2733	.0654 03/26/02 221518
		.2967	.0631 05/21/02 222560
		.2656	.0487 05/28/02 222705
		.2825	.0565 07/01/02 223331
		.2622	.0595 07/16/02 223572
		.3210	.0512 09/10/02 224571
		.3205	.0403 12/10/02 226176
		.1809	.0659 12/17/02 226283
	PB-214	.0221	.0060 01/02/02 220100
		.0284	.0093 01/15/02 220289

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI) PB-214			
		.1801	.0179	01/22/02	220400
		.0602	.0102	02/05/02	220686
		.0533	.0101	02/12/02	220784
		.0801	.0147	02/19/02	220891
		.0332	.0099	03/05/02	221152
		.0443	.0090	03/26/02	221518
		.0345	.0106	04/02/02	221642
		.0255	.0079	04/09/02	221747
		.0234	.0084	05/14/02	222422
		.0288	.0095	05/21/02	222560
		.0378	.0074	05/28/02	222705
		.0284	.0100	06/04/02	222816
		.0351	.0106	06/11/02	222930
		.0083	.0066	06/18/02	223084
		.0359	.0075	07/01/02	223331
		.0232	.0086	07/09/02	223440
		.0199	.0079	07/16/02	223572
		.0395	.0087	08/06/02	223930
		.0136	.0064	09/03/02	224418
		.0168	.0063	09/10/02	224571
		.0207	.0060	09/24/02	224804
		.0076	.0058	10/01/02	224914
		.0172	.0086	10/22/02	225250
		.0575	.0106	11/19/02	225799
		.0395	.0107	11/25/02	225910
		.0242	.0087	12/03/02	226068
		.0175	.0076	12/10/02	226176
		.0233	.0084	12/17/02	226283

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2202 BILDERBACK FARM	15.0 MILES E	IODINE-131	
		.0001	.0741 01/08/02 220147
		.0211	.0699 01/23/02 220359
		-.0255	.0765 02/05/02 220636
		.0001	.0772 02/20/02 220850
		.0689	.0831 03/05/02 221101
		.0737	.0889 03/20/02 221325
		.0715	.1240 04/03/02 221592
		.0662	.0798 04/16/02 221818
		.0001	.0753 05/01/02 222137
		.0289	.0959 05/15/02 222381
		.0588	.0709 05/28/02 222654
		.0415	.0721 06/12/02 222888
		.0216	.0715 06/26/02 223140
		.0623	.0752 07/10/02 223399
		-.0208	.0624 07/24/02 223654
		.0251	.0834 08/07/02 223889
		.0440	.0763 08/21/02 224115
		.0803	.0968 09/04/02 224370
		.0780	.0941 09/18/02 224636
		.0722	.0871 10/02/02 224874
		.0513	.0535 10/16/02 225104
		.0001	.0812 10/29/02 225416
		.0785	.0947 11/13/02 225653
		-.0190	.0569 11/25/02 225869
		.0616	.0743 12/11/02 226118
		.0203	.0674 12/23/02 226378
		GAMMA SCAN (GELI)	
		AC-228	
		2.4692	4.1073 03/05/02 221101
		1.8055	4.7880 03/20/02 221325
		2.7785	4.1508 05/01/02 222137
		4.7092	4.7484 07/10/02 223399
		3.1288	4.4453 08/21/02 224115
		3.9251	4.3404 10/29/02 225416
		2.3406	2.0947 01/08/02 220147
		38.1813	4.5628 01/23/02 220359
		23.6938	3.8258 02/05/02 220636
		16.8312	2.9955 02/20/02 220850
		BI-214	

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION			ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2202 BILDERBACK FARM	15.0 MILES E		GAMMA SCAN (GELI) BI-214	9.1545	3.5091	03/05/02	221101
				4.9548	3.0891	04/03/02	221592
				11.7840	2.9357	05/01/02	222137
				2.8326	2.9967	05/15/02	222381
				11.6246	2.8896	05/28/02	222654
				23.4496	4.9346	06/12/02	222888
				8.4570	3.0028	06/26/02	223140
				12.6873	3.6973	07/10/02	223399
				7.3968	3.3874	07/24/02	223654
				5.4573	3.7863	08/07/02	223889
				4.0425	3.0047	08/21/02	224115
				3.8059	2.6684	09/18/02	224636
				6.2951	3.2995	10/02/02	224874
				15.1682	10.1595	10/16/02	225104
				13.5423	3.4945	10/29/02	225416
				10.6416	3.5190	11/13/02	225653
				15.7628	4.2364	11/25/02	225869
				15.4409	3.5438	12/11/02	226118
				11.9139	2.7761	12/23/02	226378
			K-40	1422.9399	92.2347	01/08/02	220147
				1392.4480	96.8788	01/23/02	220359
				1428.7913	92.4220	02/05/02	220636
				1331.8638	92.3524	02/20/02	220850
				1278.7375	90.2701	03/05/02	221101
				1479.7787	96.5947	03/20/02	221325
				1390.0605	116.4755	04/03/02	221592
				1360.7238	97.6065	04/16/02	221818
				1294.4728	92.0970	05/01/02	222137
				1279.5167	90.3613	05/15/02	222381
				1398.7784	85.9115	05/28/02	222654
				1362.4352	98.3887	06/12/02	222888
				1398.1438	416.6040	06/26/02	223140
				1471.6129	106.0174	07/10/02	223399
				1411.8737	91.9664	07/24/02	223654
				1446.5491	95.3453	08/07/02	223889
				1438.8566	100.6714	08/21/02	224115
				1437.8311	99.0442	09/04/02	224370
				1468.8442	110.4856	09/18/02	224636

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
2202 BILDERBACK FARM	15.0 MILES E	GAMMA SCAN (GELI) K-40	1330.3582	90.5124 10/02/02	224874
			1504.2440	98.8188 10/16/02	225104
			1448.4078	99.4205 10/29/02	225416
			825.4354	150.5583 11/13/02	225653
			1447.6147	103.7187 11/25/02	225869
			1422.2242	95.1273 12/11/02	226118
			1409.1785	90.4590 12/23/02	226378
		PB-212	4.3329	2.5543 01/08/02	220147
			.1965	2.1554 01/23/02	220359
			1.1805	2.4228 02/05/02	220636
			2.8274	2.5318 04/03/02	221592
			2.6004	2.8028 05/28/02	222654
			.5900	2.1019 06/12/02	222888
			.0440	1.9565 06/26/02	223140
			.9640	1.6731 07/10/02	223399
			3.1444	2.8063 08/21/02	224115
			1.6854	1.9605 09/18/02	224636
			4.9784	2.7775 11/25/02	225869
			1.9351	2.6457 12/11/02	226118
		PB-214	3.3767	5.5167 01/08/02	220147
			29.0360	3.9303 01/23/02	220359
			15.8102	3.8042 02/05/02	220636
			12.5974	3.1412 02/20/02	220850
			4.0377	2.1118 03/05/02	221101
			.2696	3.2499 03/20/02	221325
			7.3830	4.5353 04/03/02	221592
			2.3451	3.0083 05/01/02	222137
			3.2843	2.5989 05/28/02	222654
			15.6104	4.0300 06/12/02	222888
			7.3351	3.6269 06/26/02	223140
			4.1266	3.2685 07/10/02	223399
			3.3299	2.3829 07/24/02	223654
			5.8903	3.9175 08/07/02	223889
			6.5682	3.1658 08/21/02	224115
			4.8997	3.0442 09/18/02	224636
			4.0085	2.1541 10/02/02	224874
			4.7766	2.8946 10/16/02	225104
			4.8302	3.0242 10/29/02	225416

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2202 BILDERBACK FARM	15.0 MILES E	GAMMA SCAN (GELI) PB-214	2.5259	2.1509	11/13/02	225653
			18.0519	3.4825	11/25/02	225869
			6.7199	2.6710	12/11/02	226118
			8.4467	2.5826	12/23/02	226378
			.6652	1.1396	01/08/02	220147
			.4327	1.1929	02/20/02	220850
			.2911	1.1706	03/05/02	221101
			.2040	1.2510	03/20/02	221325
			1.4621	1.5181	04/03/02	221592
			.2654	1.1983	05/28/02	222654
		TL-208	1.3423	1.2395	06/12/02	222888
			.2371	1.1267	06/26/02	223140
			1.3942	1.4258	08/07/02	223889
			.7139	1.2905	10/29/02	225416
		SR 89	2.5118	.9539	03/05/02	221101
			1.5124	1.0553	05/28/02	222654
			1.2222	.9157	08/21/02	224115
			2.5861	.8853	12/11/02	226118
		SR 90	-.3495	.6016	03/05/02	221101
			.1398	.6681	05/28/02	222654
			-.2029	.5887	08/21/02	224115
			-.2140	.5693	12/11/02	226118
2263 E. HOUSLEY FARM	24.0 MILES SSW	IODINE-131	.0075	.0484	01/09/02	220167
			.0075	.0480	01/23/02	220378
			.0233	.0772	02/06/02	220656
			-.0127	.0403	02/20/02	220868
			.0513	.0484	03/06/02	221121
			-.0208	.0625	03/20/02	221344
			-.2427	.0917	04/03/02	221611
			.0111	.0416	04/17/02	221836
			.0583	.0608	05/01/02	222161
			.0547	.0516	05/15/02	222399

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2263 E. HOUSLEY FARM	24.0 MILES SSW	IODINE-131			
		.0119	.0762	05/29/02	222673
		.0535	.0558	06/12/02	222907
		.0832	.1003	06/26/02	223159
		.0494	.0466	07/10/02	223417
		.0436	.0618	07/24/02	223673
		.0132	.0494	08/07/02	223908
		.0354	.0502	08/21/02	224134
		.0509	.0883	09/04/02	224390
		.0559	.0583	09/18/02	224656
		.0606	.0572	10/02/02	224892
		.0559	.0583	10/16/02	225124
		.0001	.0825	10/30/02	225439
		.0445	.0631	11/13/02	225673
		-.0102	.0321	11/25/02	225887
		.0286	.0478	12/11/02	226138
		.0671	.0809	12/23/02	226398
	GAMMA SCAN (GELI)				
	AC-228	3.9273	3.5008	09/04/02	224390
		8.8832	4.7738	10/16/02	225124
	BI-212	46.2422	14.6659	09/18/02	224656
	BI-214	6.3503	3.0494	01/09/02	220167
		20.6811	4.5075	01/23/02	220378
		29.0949	4.0041	02/06/02	220656
		2.1953	3.2275	02/20/02	220868
		5.5041	4.2631	03/06/02	221121
		20.1055	10.8317	03/20/02	221344
		19.4106	9.5327	04/03/02	221611
		21.6629	9.2973	04/17/02	221836
		9.8066	3.1861	05/15/02	222399
		1.7891	2.4903	05/29/02	222673
		8.7919	3.4325	06/12/02	222907
		1.7735	2.6487	06/26/02	223159
		1.6534	3.1999	07/10/02	223417
		7.1630	4.3100	07/24/02	223673
		.0061	2.3681	08/07/02	223908
		.8995	2.6818	08/21/02	224134
		1.6067	2.5511	10/02/02	224892

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2263 E. HOUSLEY FARM	24.0 MILES SSW	GAMMA SCAN (GELI)			
	BI-214	6.6700	3.5029	10/30/02	225439
		11.1218	9.5869	11/13/02	225673
		5.6691	2.9671	11/25/02	225887
		7.0565	3.5964	12/11/02	226138
		8.5624	4.2320	12/23/02	226398
	CS-137	2.3479	1.1350	04/03/02	221611
	K-40	1391.1956	78.2033	01/09/02	220167
		1514.2764	106.2630	01/23/02	220378
		1265.5072	79.6441	02/06/02	220656
		1601.0887	102.2812	02/20/02	220868
		1485.1064	82.0176	03/06/02	221121
		1703.5994	98.0051	03/20/02	221344
		1409.4026	99.5213	04/03/02	221611
		1641.0757	112.4039	04/17/02	221836
		1354.6438	87.4922	05/01/02	222161
		1541.1676	101.7491	05/15/02	222399
		1735.5665	106.3914	05/29/02	222673
		1535.5981	85.9663	06/12/02	222907
		1399.1841	102.0966	06/26/02	223159
		1537.6158	90.2930	07/10/02	223417
		894.1288	62.8419	07/24/02	223673
		1322.0686	87.5070	08/07/02	223908
		1439.4113	86.9442	08/21/02	224134
		1277.5090	81.6222	09/04/02	224390
		1264.2585	81.1282	09/18/02	224656
		1396.3077	92.3972	10/02/02	224892
		1311.6184	90.7982	10/16/02	225124
		1405.3710	93.6019	10/30/02	225439
		1138.0189	83.3283	11/13/02	225673
		1319.3871	91.9293	11/25/02	225887
		1299.3644	90.0589	12/11/02	226138
		1230.6501	114.3249	12/23/02	226398
	PB-212	1.2530	1.6166	01/09/02	220167
		.1970	1.6028	09/18/02	224656
		6.4745	3.2830	12/23/02	226398
	PB-214	6.3151	3.0967	01/09/02	220167
		15.9082	4.7630	01/23/02	220378
		19.4022	3.2865	02/06/02	220656

TABLE 13
 TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

PAGE 7

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN MILK
 PCI/L - 0.037 BQ/L
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
2263 E. HOUSLEY FARM 24.0 MILES SSW	GAMMA SCAN (GELI) PB-214	2.5654	2.9838	03/06/02	221121	
		.7376	3.0870	03/20/02	221344	
		6.0087	3.2651	04/03/02	221611	
		.3085	2.3491	04/17/02	221836	
		7.2928	2.5630	05/15/02	222399	
		.0891	2.5597	07/10/02	223417	
		6.3466	2.3668	07/24/02	223673	
		3.8680	2.5047	08/07/02	223908	
		.8995	3.2648	09/18/02	224656	
		2.6004	3.3590	10/02/02	224892	
		3.4632	3.2369	10/16/02	225124	
		.7606	2.3101	11/13/02	225673	
		4.5020	3.7968	11/25/02	225887	
		8.0436	3.9538	12/11/02	226138	
		7.1775	4.7742	12/23/02	226398	
		SR 89	.9385	.9242	03/06/02	221121
			1.6001	1.0015	05/29/02	222673
			.3613	.8590	08/21/02	224134
			1.8585	.8457	12/11/02	226138
		SR 90	.1568	.5887	03/06/02	221121
-.4517	.6241		05/29/02	222673		
.5038	.5606		08/21/02	224134		
-.5942	.5438		12/11/02	226138		
3115 LAYMAN FARM 1.3 MILES SSW	IODINE-131	.0136	.0511	01/08/02	220181	
		.0672	.0811	01/22/02	220392	
		.0151	.0567	02/05/02	220670	
		.0074	.0473	03/05/02	221136	
		.0376	.0533	03/19/02	221358	
		-.0091	.0302	04/02/02	221625	
		.0457	.0793	04/16/02	221850	
		.0001	.0829	04/30/02	222181	
		.0001	.0802	05/14/02	222413	

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SSW	IODINE-131	.0121	.0384	05/28/02	222688
			.0572	.0992	06/11/02	222921
			.0610	.0636	06/25/02	223173
			.0718	.0866	07/09/02	223431
			.0001	.0683	07/23/02	223687
			.0187	.0439	08/06/02	223922
			.0739	.0656	08/20/02	224150
			.0156	.0582	09/03/02	224410
			.0422	.0598	09/17/02	224670
			.0369	.0616	10/01/02	224906
			.0225	.0748	10/15/02	225138
			.0421	.0597	10/29/02	225453
			.0774	.0807	11/12/02	225687
			.0284	.0474	11/25/02	225901
			.0441	.0764	12/10/02	226157
			.0382	.0639	12/23/02	226421
		GAMMA SCAN (GELI) AC-228	5.5330	4.0452	01/08/02	220181
			4.8805	3.4062	03/19/02	221358
		BI-214	7.4914	4.0447	04/16/02	221850
			5.4820	4.6851	08/20/02	224150
			10.6282	3.1661	12/23/02	226421
			2.1914	2.9065	01/08/02	220181
			19.0094	4.1439	01/22/02	220392
			16.2100	3.2801	02/05/02	220670
			10.6872	3.1528	02/19/02	220882
			16.4973	3.1690	03/05/02	221136
			1.0521	2.3653	03/19/02	221358
			3.4778	2.5633	04/02/02	221625
			16.7911	8.8387	04/16/02	221850
			6.0875	2.3657	04/30/02	222181
			12.7347	11.8337	05/14/02	222413
			9.6467	3.2019	05/28/02	222688
			7.7195	3.3714	06/11/02	222921
			7.2044	3.0457	06/25/02	223173
			7.5933	3.3784	07/09/02	223431
			.7472	2.7223	09/03/02	224410

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SSW	GAMMA SCAN (GELI)			
	BI-214	2.3916	9.3717	09/17/02	224670
		3.6891	2.6719	10/01/02	224906
		4.9458	3.9851	10/15/02	225138
		4.2662	2.9414	11/12/02	225687
		1.0591	3.6740	11/25/02	225901
		4.2199	11.5415	12/10/02	226157
		6.1938	3.3272	12/23/02	226421
	CS-137	2.0406	.8830	02/05/02	220670
	K-40	1381.6123	97.4185	01/08/02	220181
		1392.5314	77.4093	01/22/02	220392
		1464.0731	93.0388	02/05/02	220670
		1470.8625	106.9142	02/19/02	220882
		1398.5410	94.4700	03/05/02	221136
		1352.1770	88.4011	03/19/02	221358
		1286.8835	93.1508	04/02/02	221625
		1358.8483	85.5936	04/16/02	221850
		1268.3280	83.7205	04/30/02	222181
		1406.9799	82.4779	05/14/02	222413
		1395.9456	83.9237	05/28/02	222688
		1409.3209	103.1856	06/11/02	222921
		1389.5013	92.7163	06/25/02	223173
		1333.2375	85.0206	07/09/02	223431
		1412.2004	88.8131	07/23/02	223687
		1333.0120	82.0568	08/06/02	223922
		1350.9742	92.5951	08/20/02	224150
		1492.0645	85.3199	09/03/02	224410
		1354.8339	96.2174	09/17/02	224670
		1383.8917	93.8882	10/01/02	224906
		1482.3285	110.6248	10/15/02	225138
		1474.1177	92.8591	10/29/02	225453
		1407.6244	100.9815	11/12/02	225687
		1258.4666	86.7525	11/25/02	225901
		1398.1490	98.5276	12/10/02	226157
		1372.3792	97.5720	12/23/02	226421
	PB-212	2.0528	1.4365	03/05/02	221136
		.4932	1.3737	03/19/02	221358
		2.2585	2.4856	07/09/02	223431
		4.6834	2.0939	09/03/02	224410

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
3115 LAYMAN FARM	1.3 MILES SSW	GAMMA SCAN (GELI) PB-214		
		.4824	2.7619 01/08/02	220181
		17.3176	3.3057 01/22/02	220392
		13.1457	3.3731 02/05/02	220670
		10.9687	3.4645 02/19/02	220882
		10.8421	3.5748 03/05/02	221136
		2.6977	3.1596 04/16/02	221850
		2.0150	2.6051 04/30/02	222181
		4.1954	3.2270 05/14/02	222413
		8.0687	2.6001 05/28/02	222688
		11.8090	3.7155 06/11/02	222921
		4.6368	3.0393 06/25/02	223173
		8.5656	3.5445 07/09/02	223431
		4.1596	3.0532 07/23/02	223687
		2.8195	3.0005 10/01/02	224906
		6.0257	3.1721 11/12/02	225687
	SR 89			
		.2457	.8463 03/05/02	221136
		1.6254	1.0706 05/28/02	222688
		.9711	.9825 08/20/02	224150
		-.1295	.8842 12/10/02	226157
	SR 90			
		.3991	.5448 03/05/02	221136
		-.2310	.6809 05/28/02	222688
		.0568	.6340 08/20/02	224150
		.8738	.5841 12/10/02	226157
3116 MULLINS FARM	3.7 M. ESE	IODINE-131		
		.0212	.0704 01/09/02	220183
		.0618	.0644 01/23/02	220393
		.0852	.1027 02/06/02	220672
		.0336	.0562 02/20/02	220883
		.0341	.0484 03/06/02	221138
		-.0198	.0465 03/20/02	221360
		.0605	.0729 04/03/02	221628
		.0287	.0479 04/17/02	221852
		-.0128	.0405 05/01/02	222183

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE IODINE-131	- .0151	.0478	05/15/02	222414
		.1088	.1312	05/29/02	222690
		.0101	.0648	06/12/02	222922
		.0730	.0880	06/26/02	223175
		.0324	.0459	07/10/02	223432
		.0507	.0529	07/24/02	223689
		- .0132	.0417	08/07/02	223923
		- .0119	.0376	08/21/02	224152
		- .0230	.0541	09/04/02	224411
		.0066	.0422	09/18/02	224672
		.0001	.0863	10/02/02	224907
		.0111	.0417	10/16/02	225140
		.0742	.0774	10/30/02	225454
		- .0235	.0552	11/13/02	225689
		.0900	.0849	11/25/02	225902
		.0560	.0528	12/11/02	226159
		.0144	.0539	12/23/02	226422
	GAMMA SCAN (GELI) AC-228 BI-212 BI-214	4.2275	3.9082	01/09/02	220183
		5.2266	3.2698	01/23/02	220393
		38.0576	12.0778	03/20/02	221360
		4.5839	2.8631	01/09/02	220183
		10.9984	3.7938	01/23/02	220393
		8.9867	2.8190	02/06/02	220672
		10.2186	3.9415	02/20/02	220883
		5.2315	3.1204	03/06/02	221138
		10.5315	3.8587	03/20/02	221360
		10.1458	2.8868	04/03/02	221628
		5.8720	3.3047	04/17/02	221852
		7.4031	8.8605	05/01/02	222183
		6.1269	2.7452	05/29/02	222690
		4.6735	1.7893	06/12/02	222922
		7.0385	3.7054	06/26/02	223175
		6.0838	3.0149	07/10/02	223432
		6.8638	3.4789	07/24/02	223689
		2.4949	2.4183	09/18/02	224672
		10.6306	10.8724	10/02/02	224907

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI)			
	BI-214	5.0981	3.3363	10/30/02	225454
		2.5107	2.6376	11/13/02	225689
		1.0154	2.5934	11/25/02	225902
		2.8121	2.4481	12/11/02	226159
		9.2725	2.7774	12/23/02	226422
	K-40	1348.7466	90.3646	01/09/02	220183
		1421.7667	101.6035	01/23/02	220393
		1354.2661	91.2265	02/06/02	220672
		1398.4565	92.1884	02/20/02	220883
		1296.2133	88.2993	03/06/02	221138
		1324.1478	89.0833	03/20/02	221360
		1198.9923	78.9638	04/03/02	221628
		1359.9106	91.1774	04/17/02	221852
		1292.7927	88.7279	05/01/02	222183
		1320.1929	94.3404	05/15/02	222414
		1386.4956	86.5157	05/29/02	222690
		1359.1904	78.1097	06/12/02	222922
		1413.3601	86.7754	06/26/02	223175
		1403.4572	93.5862	07/10/02	223432
		1393.1211	89.4656	07/24/02	223689
		1384.6304	89.6714	08/07/02	223923
		1265.5081	100.4541	08/21/02	224152
		1305.3990	93.1758	09/04/02	224411
		1430.6094	88.4817	09/18/02	224672
		1450.9091	93.6874	10/02/02	224907
		1530.7423	92.7052	10/16/02	225140
		1352.3900	86.9150	10/30/02	225454
		1299.0634	89.1550	11/13/02	225689
		1408.1783	104.1383	11/25/02	225902
		1390.8940	99.4518	12/11/02	226159
		1269.6572	82.8882	12/23/02	226422
	PB-212	1.6890	1.5507	04/03/02	221628
		.3806	1.5400	06/12/02	222922
		2.5611	1.7778	09/04/02	224411
		.4191	1.5356	09/18/02	224672
		2.7493	1.8783	10/30/02	225454
		1.0732	1.8760	12/23/02	226422
	PB-214	8.6081	3.5174	01/23/02	220393

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI) PB-214	9.7842	3.5771	02/06/02	220672
			6.3468	2.4719	02/20/02	220883
			1.9964	1.9819	03/06/02	221138
			6.6691	2.1068	04/03/02	221628
			5.7170	2.5916	04/17/02	221852
			4.5243	2.8434	05/15/02	222414
			4.4234	2.7360	05/29/02	222690
			6.3629	1.5596	06/12/02	222922
			1.9885	2.9843	06/26/02	223175
			1.6255	2.9411	07/10/02	223432
			2.0593	2.6692	07/24/02	223689
			.9428	2.0976	11/13/02	225689
			3.5758	3.1765	11/25/02	225902
			5.7969	2.8350	12/23/02	226422
		SR 89	.9797	1.0214	03/06/02	221138
			-.3959	1.1340	05/29/02	222690
			.1031	.9899	08/21/02	224152
		SR 90	2.4433	1.0305	12/11/02	226159
			.8681	.6598	03/06/02	221138
			1.5761	.7520	05/29/02	222690
			1.2457	.6613	08/21/02	224152
			-.2030	.6581	12/11/02	226159
3119 NORTON FARM	4.1 MILES ESE	IODINE-131	.0391	.0555	01/09/02	220184
			.0691	.0833	01/23/02	220394
			-.0124	.0393	02/06/02	220673
			-.0175	.0895	02/20/02	220884
			.0336	.0562	03/06/02	221139
			.0001	.0697	03/20/02	221361
			.0339	.0481	04/03/02	221629
			.0111	.0417	04/17/02	221853
			.0086	.0552	05/01/02	222185
			.0359	.0509	05/15/02	222416

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO
3119 NORTON FARM	4.1 MILES ESE	IODINE-131		
		.0511	.0887 05/29/02	222692
		-.0239	.0561 06/12/02	222923
		-.0173	.0406 06/26/02	223176
		.0204	.0675 07/10/02	223433
		.0104	.0389 07/24/02	223690
		.0098	.0629 08/07/02	223924
		.0301	.0503 08/21/02	224153
		.0148	.0554 09/04/02	224412
		.0130	.0485 09/18/02	224673
		.0162	.0605 10/02/02	224908
		-.0152	.0358 10/16/02	225141
		-.0132	.0417 10/30/02	225455
		.0147	.0551 11/13/02	225690
		.0307	.0513 11/25/02	225904
		.0538	.0561 12/11/02	226160
		.0001	.0788 12/23/02	226424
	GAMMA SCAN (GELI)			
	AC-228	9.5570	6.3169 09/18/02	224673
		7.7541	5.2687 11/13/02	225690
	BI-214	5.3446	3.4361 01/23/02	220394
		7.9616	4.3265 02/06/02	220673
		5.5749	2.3362 02/20/02	220884
		9.5363	3.3979 03/06/02	221139
		6.2603	3.3909 04/03/02	221629
		4.4083	3.2535 04/17/02	221853
		5.8099	4.2414 05/29/02	222692
		.6610	2.6923 06/12/02	222923
		12.0995	3.3143 06/26/02	223176
		4.4650	2.9566 07/10/02	223433
		4.3919	2.4607 07/24/02	223690
		2.8038	3.1476 08/21/02	224153
		5.7992	2.6533 09/04/02	224412
		4.7254	4.1420 09/18/02	224673
		5.5250	3.7225 10/02/02	224908
		4.8645	3.3705 10/16/02	225141
		4.4197	2.4321 11/13/02	225690
		5.8191	2.3579 11/25/02	225904

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3119 NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)			
	BI-214	1.9707	13.3679	12/11/02	226160
		1.5394	2.7722	12/23/02	226424
	K-40	1281.8491	101.1585	01/09/02	220184
		1473.7632	93.3478	01/23/02	220394
		1432.9626	98.4175	02/06/02	220673
		1328.4026	86.3852	02/20/02	220884
		1379.0496	86.2352	03/06/02	221139
		1298.0375	96.5733	03/20/02	221361
		1461.7782	117.7573	04/03/02	221629
		1479.3029	106.3867	04/17/02	221853
		1362.5870	100.4349	05/01/02	222185
		1364.9708	89.3474	05/15/02	222416
		1309.4675	98.9177	05/29/02	222692
		1281.3160	87.2565	06/12/02	222923
		1349.5387	89.9946	06/26/02	223176
		1367.4570	86.1746	07/10/02	223433
		1346.4590	79.7037	07/24/02	223690
		1352.6986	93.0902	08/07/02	223924
		1231.5671	85.8899	08/21/02	224153
		1344.8195	106.6664	09/04/02	224412
		1561.1224	476.3691	09/18/02	224673
		1405.6936	91.0068	10/02/02	224908
		1318.4268	83.1865	10/16/02	225141
		1592.8108	99.7325	10/30/02	225455
		1302.9092	98.4463	11/13/02	225690
		1439.1331	90.7472	11/25/02	225904
		1430.2682	105.3343	12/11/02	226160
		1443.5399	91.1078	12/23/02	226424
	PB-212	3.3109	2.4369	02/06/02	220673
		2.4827	2.2552	09/04/02	224412
		1.2254	2.6800	09/18/02	224673
		.3838	1.5643	10/16/02	225141
		.4091	1.9635	11/13/02	225690
		7.0619	3.0623	12/11/02	226160
		2.0279	1.4504	12/23/02	226424
	PB-214	2.8529	3.6777	01/23/02	220394
		6.0015	2.7201	02/20/02	220884
		3.8717	2.6263	03/06/02	221139

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	TERM COLLECTED LAB NO	
3119 NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI) PB-214	4.6570	3.4000 03/20/02	221361	
			2.3497	2.5644 04/03/02	221629	
			.1930	2.6747 04/17/02	221853	
			2.6463	2.2380 06/12/02	222923	
			10.1667	2.8345 06/26/02	223176	
			3.9879	2.7899 07/10/02	223433	
			1.7645	2.6866 07/24/02	223690	
			6.4443	2.7076 09/04/02	224412	
			1.9861	2.2871 10/02/02	224908	
			7.4678	2.9419 10/16/02	225141	
			4.5666	2.6954 11/25/02	225904	
			1.4177	2.9984 12/23/02	226424	
		TL-208	1.1847	1.1888 09/18/02	224673	
			SR 89	1.7796	1.0873 03/06/02	221139
				1.3930	1.2113 05/29/02	222692
		-1.2919		.8957 08/21/02	224153	
		SR 90	1.4600	1.0420 12/11/02	226160	
			-.3604	.6392 03/06/02	221139	
			.1344	.7698 05/29/02	222692	
			1.4168	.6048 08/21/02	224153	
			-.4858	.6572 12/11/02	226160	

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)				
		AC-228	.7858	.0718	07/01/02	223279
		BI-212	.8529	.0890	07/01/02	223279
		BI-214	.8515	.0456	07/01/02	223279
		CS-137	.1364	.0105	07/01/02	223279
		K-40	5.1122	.3373	07/01/02	223279
		PB-212	.7978	.0516	07/01/02	223279
		PB-214	.9737	.0543	07/01/02	223279
		RA-226	.8515	.0456	07/01/02	223279
		TL-208	.2609	.0153	07/01/02	223279
		SR 89				
			.5630	.4429	07/01/02	223279
		SR 90				
			-.0877	.1266	07/01/02	223279
3101 LM1	0.5 MILES SSW	GAMMA SCAN (GELI)				
		AC-228	1.2883	.0817	07/01/02	223306
		BI-212	1.4442	.1290	07/01/02	223306
		BI-214	1.0375	.0531	07/01/02	223306
		CS-137	.1094	.0122	07/01/02	223306
		K-40	14.8089	.7144	07/01/02	223306
		PB-212	1.3230	.0615	07/01/02	223306
		PB-214	1.1246	.0435	07/01/02	223306
		RA-224	1.3316	.1578	07/01/02	223306
		RA-226	1.0375	.0531	07/01/02	223306
		TL-208	.4120	.0226	07/01/02	223306
		SR 89				
			-.6036	.5504	07/01/02	223306
		SR 90				
	.1831	.1263	07/01/02	223306		
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI)				
		AC-228	1.1389	.0720	07/01/02	223310
		BI-212	1.3141	.1197	07/01/02	223310
		BI-214	.8426	.0446	07/01/02	223310

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2	0.4 MILES NNE	GAMMA SCAN (GELI)			
		CS-137	.5868	.0333 07/01/02	223310
		K-40	15.4925	.6926 07/01/02	223310
		PB-212	1.2558	.0589 07/01/02	223310
		PB-214	.9338	.0535 07/01/02	223310
		RA-224	1.4059	.1727 07/01/02	223310
		RA-226	.8426	.0446 07/01/02	223310
		TL-208	.3790	.0211 07/01/02	223310
		SR 89	.4393	.6595 07/01/02	223310
		SR 90	.0072	.1448 07/01/02	223310
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)			
		AC-228	.8964	.0562 07/01/02	223313
		BI-212	.9520	.0867 07/01/02	223313
		BI-214	.7051	.0390 07/01/02	223313
		CS-137	.4180	.0269 07/01/02	223313
		K-40	10.1656	.4896 07/01/02	223313
		PB-212	.9428	.0486 07/01/02	223313
		PB-214	.7944	.0421 07/01/02	223313
		RA-224	1.1215	.1487 07/01/02	223313
		RA-226	.7051	.0390 07/01/02	223313
		TL-208	.2794	.0186 07/01/02	223313
		SR 89	.0048	.6150 07/01/02	223313
		SR 90	.0314	.1359 07/01/02	223313
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI)			
		AC-228	.8449	.0634 07/01/02	223316
		BI-212	.9338	.1025 07/01/02	223316
		BI-214	.8937	.0504 07/01/02	223316
		CS-137	.2515	.0157 07/01/02	223316
		K-40	3.6589	.2223 07/01/02	223316

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3	10.4 MILES NNE	GAMMA SCAN (GELI)				
		PB-212	.9051	.0465	07/01/02	223316
		PB-214	.9730	.0532	07/01/02	223316
		RA-224	1.0001	.1517	07/01/02	223316
		RA-226	.8937	.0504	07/01/02	223316
		TL-208	.2672	.0184	07/01/02	223316
		SR 89				
			.5777	.5415	07/01/02	223316
		SR 90				
			-.0726	.1181	07/01/02	223316
3108 PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)				
		AC-228	1.1321	.0774	07/02/02	223320
		BI-212	1.2673	.0983	07/02/02	223320
		BI-214	.8566	.0467	07/02/02	223320
		CS-137	.0487	.0092	07/02/02	223320
		K-40	10.3889	.5550	07/02/02	223320
		PB-212	1.1548	.0537	07/02/02	223320
		PB-214	.9505	.0464	07/02/02	223320
		RA-224	1.1184	.1373	07/02/02	223320
		RA-226	.8566	.0467	07/02/02	223320
		TL-208	.3657	.0213	07/02/02	223320
		SR 89				
			-.5507	.5385	07/02/02	223320
		SR 90				
			.1143	.1143	07/02/02	223320
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)				
		AC-228	1.4345	.0856	07/02/02	223323
		BI-212	1.3845	.1334	07/02/02	223323
		BI-214	.9468	.0453	07/02/02	223323
		CS-137	.0699	.0107	07/02/02	223323
		K-40	11.6252	.5703	07/02/02	223323
		PA-234M	3.9524	1.3057	07/02/02	223323
		PB-212	1.3971	.0799	07/02/02	223323

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3109 PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)						
		PB-214	1.0834	.0563	07/02/02	223323		
		RA-226	.9468	.0453	07/02/02	223323		
		TL-208	.4342	.0245	07/02/02	223323		
		SR 89						
			-.1872	.5511	07/02/02	223323		
		SR 90						
			.0409	.1152	07/02/02	223323		
		3203 LM3	1.9 MILES NNE	GAMMA SCAN (GELI)				
				AC-228	.8610	.0660	07/01/02	223326
BI-212	.9135			.1265	07/01/02	223326		
BI-214	1.0371			.0520	07/01/02	223326		
CS-137	1.1696			.0586	07/01/02	223326		
K-40	4.8030			.3119	07/01/02	223326		
PB-212	.9128			.0442	07/01/02	223326		
PB-214	1.1590			.0493	07/01/02	223326		
RA-224	1.0650			.1489	07/01/02	223326		
RA-226	1.0371			.0520	07/01/02	223326		
TL-208	.3151	.0347	07/01/02	223326				
SR 89								
	-.0928	.5174	07/01/02	223326				
SR 90								
	.1264	.1093	07/01/02	223326				
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)						
		AC-228	1.3697	.0843	07/02/02	223329		
		BI-212	1.3215	.1444	07/02/02	223329		
		BI-214	.9013	.0513	07/02/02	223329		
		CS-137	.0578	.0076	07/02/02	223329		
		K-40	26.9838	1.1435	07/02/02	223329		
		PB-212	1.3577	.0619	07/02/02	223329		
		PB-214	1.0436	.0571	07/02/02	223329		
		RA-224	1.2286	.1903	07/02/02	223329		
		RA-226	.9013	.0513	07/02/02	223329		

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)				
		TL-208	.4245	.0562	07/02/02	223329
		SR 89	.2467	.6020	07/02/02	223329
		SR 90	.0009	.1238	07/02/02	223329
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)				
		AC-228	.6271	.0500	07/01/02	223332
		BI-212	.6899	.0834	07/01/02	223332
		BI-214	.6581	.0335	07/01/02	223332
		CS-137	.6263	.0358	07/01/02	223332
		K-40	4.8391	.3108	07/01/02	223332
		PB-212	.6855	.0388	07/01/02	223332
		PB-214	.7562	.0439	07/01/02	223332
		RA-224	.8107	.1352	07/01/02	223332
		RA-226	.6581	.0335	07/01/02	223332
		TL-208	.2192	.0149	07/01/02	223332
		SR 89	1.1592	.6753	07/01/02	223332
		SR 90	.1135	.1305	07/01/02	223332

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN APPLES
PCI/KG - 0.037 BQ/KG (WET WT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
				TERM	COLLECTED	LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)				
		BI-214	12.3649	10.0908	08/13/02	224299
		K-40	704.9564	113.0210	08/13/02	224299
		PB-212	.8150	4.3505	08/13/02	224299
		PB-214	10.8537	6.6019	08/13/02	224299
3184	4.5 MILES N	GAMMA SCAN (GELI)				
		AC-228	4.5323	12.5344	08/06/02	224200
		BI-214	.0669	5.5067	08/06/02	224200
		K-40	738.6019	109.9040	08/06/02	224200

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CABBAGE
PCI/KG - 0.037 BQ/KG (WET WT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)		
		BI-214	38.0765	9.9609 06/18/02 222106
		K-40	1419.5088	162.4053 06/18/02 222106
3185 WBNP	3 MILES ENE	PB-214	25.3076	8.4855 06/18/02 222106
		GAMMA SCAN (GELI)		
		AC-228	14.7653	13.2905 06/25/02 222162
		BI-214	18.2865	7.4733 06/25/02 222162
		K-40	1222.5177	130.7679 06/25/02 222162
		PB-214	21.7139	5.4861 06/25/02 222162

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CORN
PCI/KG - 0.037 BQ/KG (WET WT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)		
		BI-214	155.3155	40.0399 07/16/02 222115
		K-40	2458.3225	191.5281 07/16/02 222115
		PB-214	54.2712	10.9023 07/16/02 222115
3119 NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)		
		BI-214	50.4311	10.1839 07/10/02 222164
		K-40	2117.1660	165.3249 07/10/02 222164
		PB-212	5.3634	5.7210 07/10/02 222164
		PB-214	43.6684	8.4023 07/10/02 222164

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN GREEN BEANS
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO	
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)			
		BI-214	47.7241	11.6966 07/16/02	222116
		K-40	2555.9221	182.6766 07/16/02	222116
		PB-214	72.4247	9.1534 07/16/02	222116
3208	5.5 MILES E	GAMMA SCAN (GELI)			
		BI-214	87.8980	13.4168 07/10/02	222165
		K-40	2377.5090	202.5361 07/10/02	222165
		PB-214	117.7109	15.2648 07/10/02	222165

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN TOMATOES
PCI/KG - 0.037 BQ/KG (WET WT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO	
2116 RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)			
		BI-214	19.9956	7.6355 07/16/02	223823
		K-40	2287.3308	296.4332 07/16/02	223823
		PB-214	26.6462	9.9978 07/16/02	223823
3173 2.5 MILES NE		GAMMA SCAN (GELI)			
		BI-214	10.6338	33.5799 08/06/02	222166
		K-40	1912.8519	178.6297 08/06/02	222166
		PB-214	2.2174	6.9853 08/06/02	222166

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3133 TRM 529.3	GROSS BETA	1.8070	.6167	01/08/02	220187		
		2.7928	.6593	02/05/02	220676		
		3.3408	.7005	03/05/02	221142		
		2.3468	.6362	04/02/02	221632		
		3.4564	.6973	04/30/02	222188		
		1.9605	.6242	05/28/02	222695		
		3.2145	.6971	06/25/02	223179		
		2.6448	.6653	07/23/02	223693		
		3.4443	.7149	08/20/02	224156		
		2.9458	.6876	09/17/02	224676		
		4.0727	.7769	10/15/02	225144		
		1.2876	.5898	11/12/02	225693		
		2.7360	.6471	12/10/02	226163		
		GAMMA SCAN (GELI)	NO ACTIVITY DETECTED			08/20/02	224156
			NO ACTIVITY DETECTED			09/17/02	224676
	AC-228		8.1862	4.4019	03/05/02	221142	
			1.5796	4.2344	05/28/02	222695	
	BI-214		.8104	1.8488	01/08/02	220187	
			6.6002	2.1662	02/05/02	220676	
			4.1725	3.0330	03/05/02	221142	
			11.4262	4.6085	04/02/02	221632	
			3.9224	2.7001	05/28/02	222695	
			10.3263	3.0951	06/25/02	223179	
			49.5596	9.2811	07/23/02	223693	
			15.8832	3.6216	11/12/02	225693	
	K-40	12.6231	3.1678	12/10/02	226163		
		18.2822	18.7049	01/08/02	220187		
	6.9747	17.7196	10/15/02	225144			
	7.1602	16.0613	11/12/02	225693			
	17.1090	21.3656	12/10/02	226163			
PB-212	4.2327	2.6023	01/08/02	220187			
	1.6710	2.5005	05/28/02	222695			
PB-214	3.6642	2.9926	01/08/02	220187			
	4.9513	2.8174	02/05/02	220676			
	.8675	2.3605	03/05/02	221142			
	4.2664	2.3686	05/28/02	222695			

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	GAMMA SCAN (GELI)				
	PB-214	2.5773	2.3979	06/25/02	223179
		45.9516	7.8318	07/23/02	223693
		10.7887	3.2323	11/12/02	225693
		5.8860	3.7312	12/10/02	226163
	TL-208	.9013	1.2762	01/08/02	220187
		1.0128	.8251	02/05/02	220676
		3.5040	1.3775	04/30/02	222188
		.1390	1.3726	05/28/02	222695
	TRITIUM				
		31.2766	70.2573	03/05/02	221153
		22.0961	69.9865	05/28/02	222706
		30.7872	70.0902	08/20/02	224167
		91.5713	71.2646	12/10/02	226177
3134 TRM 517.9	GROSS BETA				
		3.2983	.6981	01/08/02	220189
		3.5351	.7009	02/05/02	220678
		2.7837	.6698	03/05/02	221144
		2.3727	.6410	04/02/02	221634
		1.9910	.6073	04/30/02	222190
		2.0025	.6116	06/24/02	223181
		2.5904	.6516	07/23/02	223695
		2.1997	.6300	08/20/02	224158
		2.6087	.6487	09/16/02	224678
		1.9401	.6126	10/11/02	225146
		2.5706	.6361	11/08/02	225695
		3.4326	.6991	12/06/02	226165
	GAMMA SCAN (GELI)				
	AC-228	1.2502	3.1573	12/06/02	226165
	BI-214	7.4128	4.5725	02/05/02	220678
		2.8358	3.3989	03/05/02	221144
		16.8098	3.1057	04/02/02	221634
		.9206	2.6260	06/24/02	223181
		1.7545	2.0031	09/16/02	224678
		.9433	9.7818	10/11/02	225146
		7.0383	2.2460	11/08/02	225695

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED	LAB NO
3134 TRM 517.9	GAMMA SCAN (GELI)			
	BI-214	18.4081	3.5167 12/06/02	226165
	K-40	11.3515	14.6438 04/30/02	222190
		12.3270	13.7806 06/24/02	223181
		.6583	18.6308 08/20/02	224158
		4.1042	20.2241 09/16/02	224678
		9.0137	22.6269 12/06/02	226165
	PB-212	2.1394	2.6864 02/05/02	220678
		.5604	2.1032 08/20/02	224158
	PB-214	17.3645	3.7652 01/08/02	220189
		10.5031	3.5155 04/02/02	221634
		2.8495	4.4767 06/24/02	223181
		8.3869	3.9631 07/23/02	223695
		4.4442	2.3949 11/08/02	225695
		19.4050	3.9130 12/06/02	226165
	TRITIUM			
		123.4042	71.4799 03/05/02	221154
		101.1637	72.7425 05/28/02	222707
		15.7516	69.9679 08/20/02	224168
		96.7587	71.3631 12/06/02	226178
3135 TRM 523.1	GROSS BETA			
		2.0450	.6135 01/08/02	220190
		2.6553	.6558 02/05/02	220679
		3.4443	.7020 03/05/02	221145
		1.7609	.6092 04/02/02	221635
		3.1026	.6831 04/30/02	222191
		1.8250	.6180 05/28/02	222698
		2.3790	.6535 06/25/02	223182
		3.1238	.7488 07/23/02	223696
		2.2730	.6368 08/20/02	224159
		2.9016	.6982 09/17/02	224679
		3.0625	.7148 10/15/02	225147
		2.6493	.6582 11/12/02	225696
		2.2174	.6379 12/10/02	226166
	GAMMA SCAN (GELI)			
	NO ACTIVITY DETECTED		08/20/02	224159

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3135 TRM 523.1	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED		09/17/02	224679
		NO ACTIVITY DETECTED		10/15/02	225147
	AC-228	3.3110	3.4026	03/05/02	221145
		.0331	6.7131	07/23/02	223696
		7.3407	5.1444	11/12/02	225696
		7.4748	4.9487	12/10/02	226166
	BI-214	14.9387	11.2042	01/08/02	220190
		14.7123	4.3877	02/05/02	220679
		9.6501	10.5956	03/05/02	221145
		14.2199	2.8331	04/30/02	222191
		13.2192	3.8113	05/28/02	222698
		39.4246	5.3041	07/23/02	223696
		16.2953	9.0636	11/12/02	225696
		44.7323	5.6088	12/10/02	226166
	K-40	8.9740	17.0153	01/08/02	220190
		6.3266	16.2826	03/05/02	221145
		8.3991	21.7926	04/02/02	221635
		5.3407	17.7093	06/25/02	223182
		12.3332	22.4031	12/10/02	226166
	PB-212	2.8345	3.1063	02/05/02	220679
		.9776	2.4975	07/23/02	223696
		2.4029	2.0023	11/12/02	225696
	PB-214	.4463	2.3599	01/08/02	220190
		7.9087	3.4532	02/05/02	220679
		1.3990	2.0408	03/05/02	221145
		1.8599	3.3592	04/02/02	221635
		12.7835	3.0882	04/30/02	222191
		10.3327	2.8581	05/28/02	222698
		.7507	2.0403	06/25/02	223182
		44.1117	4.9209	07/23/02	223696
		4.9305	3.2033	11/12/02	225696
		27.5187	4.2277	12/10/02	226166
	TL-208	2.9803	1.8196	02/05/02	220679
		.3171	.8169	06/25/02	223182
		.2091	1.5718	07/23/02	223696
		2.8226	1.2273	12/10/02	226166
	TRITIUM				
		170.0395	72.0427	03/05/02	221155

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3135 TRM 523.1	TRITIUM			
		42.7519	71.3362 05/28/02	222708
		70.1662	70.4477 08/20/02	224169
		84.2216	72.1053 12/10/02	226179

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
2116 TRM 503.8	GROSS BETA	3.5167	.7033	01/22/02	220350	
		2.9800	.6775	02/19/02	220841	
		3.0335	.6947	03/19/02	221316	
		2.6778	.6578	04/16/02	221810	
		2.1622	.6311	05/14/02	222373	
		2.1478	.6410	06/11/02	222879	
		1.7538	.6154	07/09/02	223391	
		2.2223	.6591	08/06/02	223881	
		2.0335	.6400	09/03/02	224362	
		2.6958	.6911	10/01/02	224865	
		2.7294	.6666	10/29/02	225402	
		4.5243	.7514	11/25/02	225861	
		2.3379	.6429	12/23/02	226369	
	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED			10/01/02	224865
		AC-228	4.4839	4.4878	02/19/02	220841
		BI-214	15.3670	4.7057	01/22/02	220350
			5.9580	2.9817	02/19/02	220841
			2.4460	2.6020	04/16/02	221810
			1.3165	3.6437	05/14/02	222373
			19.5048	6.3639	06/11/02	222879
			7.9016	2.6251	07/09/02	223391
			.2650	3.1952	09/03/02	224362
			.7358	2.6318	10/29/02	225402
			5.8727	7.2595	12/23/02	226369
		K-40	13.6489	26.1660	03/19/02	221316
			12.0994	16.8492	04/16/02	221810
			11.7548	15.6538	08/06/02	223881
	5.9304	19.3585	11/25/02	225861		
PB-212	.8668	2.0099	02/19/02	220841		
	.5141	1.7790	07/09/02	223391		
PB-214	10.3161	5.7719	01/22/02	220350		
	.3570	2.9556	02/19/02	220841		
	.7838	2.4824	04/16/02	221810		
	3.2415	2.0914	07/09/02	223391		
	1.4190	2.0819	08/06/02	223881		
	1.3342	2.4482	10/29/02	225402		

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 TRM 503.8	GAMMA SCAN (GELI)				
	TL-208	.8537	1.4553	07/09/02	223391
		.4115	1.0816	09/03/02	224362
	TRITIUM				
		62.1415	71.0227	03/19/02	221403
		49.6460	70.9836	06/11/02	222966
		-56.5744	70.3282	09/03/02	224454
		-17.6460	71.5717	12/23/02	226469
2140 CF INDUSTRIES	TRM 473.0	GROSS BETA			
		2.6951	.6601	01/22/02	220353
		2.0070	.6269	02/15/02	220844
		1.9011	.6243	03/15/02	221319
		2.1390	.6243	04/15/02	221813
		2.4220	.6446	05/09/02	222376
		2.6015	.6558	06/10/02	222882
		1.9554	.6192	07/05/02	223394
		1.5478	.6130	08/02/02	223884
		3.1548	.6903	09/03/02	224365
		1.9762	.6526	09/30/02	224868
		3.5068	.7058	10/29/02	225405
		1.8765	.6119	11/21/02	225864
		2.0750	.6289	12/20/02	226373
	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED		02/15/02	220844
		NO ACTIVITY DETECTED		04/15/02	221813
	AC-228	17.2482	4.2539	05/09/02	222376
		3.6753	4.3605	07/05/02	223394
	BI-214	6.4760	3.3668	01/22/02	220353
		1.2401	4.0627	03/15/02	221319
		4.8582	3.3043	05/09/02	222376
		23.8420	4.0167	06/10/02	222882
		2.4609	2.3787	09/30/02	224868
		5.5250	2.7285	10/29/02	225405
		8.3650	3.4810	11/21/02	225864
		8.6287	3.0552	12/20/02	226373
	K-40	13.4095	15.9120	05/09/02	222376

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2140 CF INDUSTRIES	TRM 473.0				
	GAMMA SCAN (GELI)				
	K-40	25.5364	22.2644	08/02/02	223884
		2.4197	17.8854	09/03/02	224365
	PB-214	.7032	2.5267	01/22/02	220353
		1.0213	2.3541	05/09/02	222376
		25.6796	4.5204	06/10/02	222882
		7.3660	2.7184	11/21/02	225864
	TL-208	1.0951	1.2387	03/15/02	221319
	TRITIUM				
		175.3056	71.6860	03/15/02	221404
		226.0509	73.1479	06/10/02	222967
		145.4769	72.0923	09/03/02	224455
		118.5471	73.7639	12/20/02	226470
	GROSS BETA				
		1.8070	.6167	01/08/02	220187
		2.7928	.6593	02/05/02	220676
		3.3408	.7005	03/05/02	221142
		2.3468	.6362	04/02/02	221632
		3.4564	.6973	04/30/02	222188
		1.9605	.6242	05/28/02	222695
		3.2145	.6971	06/25/02	223179
		2.6448	.6653	07/23/02	223693
		3.4443	.7149	08/20/02	224156
		2.9458	.6876	09/17/02	224676
		4.0727	.7769	10/15/02	225144
		1.2876	.5898	11/12/02	225693
		2.7360	.6471	12/10/02	226163
	GAMMA SCAN (GELI)				
	NO ACTIVITY DETECTED			08/20/02	224156
	NO ACTIVITY DETECTED			09/17/02	224676
	AC-228	8.1862	4.4019	03/05/02	221142
		1.5796	4.2344	05/28/02	222695
	BI-214	.8104	1.8488	01/08/02	220187
		6.6002	2.1662	02/05/02	220676
		4.1725	3.0330	03/05/02	221142
		11.4262	4.6085	04/02/02	221632

-88- 3133 TRM 529.3

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	GAMMA SCAN (GELI)				
	BI-214	3.9224	2.7001	05/28/02	222695
		10.3263	3.0951	06/25/02	223179
		49.5596	9.2811	07/23/02	223693
		15.8832	3.6216	11/12/02	225693
		12.6231	3.1678	12/10/02	226163
	K-40	18.2822	18.7049	01/08/02	220187
		6.9747	17.7196	10/15/02	225144
		7.1602	16.0613	11/12/02	225693
		17.1090	21.3656	12/10/02	226163
	PB-212	4.2327	2.6023	01/08/02	220187
		1.6710	2.5005	05/28/02	222695
	PB-214	3.6642	2.9926	01/08/02	220187
		4.9513	2.8174	02/05/02	220676
		.8675	2.3605	03/05/02	221142
		4.2664	2.3686	05/28/02	222695
		2.5773	2.3979	06/25/02	223179
		45.9516	7.8318	07/23/02	223693
		10.7887	3.2323	11/12/02	225693
		5.8860	3.7312	12/10/02	226163
	TL-208	.9013	1.2762	01/08/02	220187
		1.0128	.8251	02/05/02	220676
		3.5040	1.3775	04/30/02	222188
		.1390	1.3726	05/28/02	222695
	TRITIUM				
		31.2766	70.2573	03/05/02	221153
		22.0961	69.9865	05/28/02	222706
		30.7872	70.0902	08/20/02	224167
		91.5713	71.2646	12/10/02	226177

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. WELL WATER (Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3121 WBN WELL #1 0.6 MILES S	GROSS BETA	3.5332	.7682	03/05/02	221156
		1.8840	.6611	05/28/02	222709
		2.6208	.7215	08/20/02	224170
		3.3224	.7836	12/10/02	226180
	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED		03/05/02	221156
		NO ACTIVITY DETECTED		05/28/02	222709
		NO ACTIVITY DETECTED		08/20/02	224170
	AC-228	.6708	3.7256	12/10/02	226180
	BI-214	6.6892	2.6912	12/10/02	226180
	K-40	1.7714	16.3913	12/10/02	226180
	PB-214	3.2100	2.1212	12/10/02	226180
	TL-208	1.2715	.9944	12/10/02	226180
	TRITIUM				
		211.6615	72.6077	03/05/02	221156
		194.2353	72.9641	05/28/02	222709
		407.2493	76.7867	08/20/02	224170
		668.8999	83.3421	12/10/02	226180
3125 WBN WELL #5 ONSITE N	GROSS BETA	2.4338	.6546	03/05/02	221157
		1.5475	.6075	05/28/02	222710
		2.3564	.6591	08/20/02	224171
		2.5886	.6518	12/10/02	226181
	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED		03/05/02	221157
		NO ACTIVITY DETECTED		12/10/02	226181
	AC-228	11.1013	4.5575	05/28/02	222710
	BI-214	4.8842	2.8648	08/20/02	224171
	K-40	11.0528	15.9852	05/28/02	222710
	PB-214	2.2958	3.3311	08/20/02	224171
	TRITIUM				
		-41.4606	69.9521	03/05/02	221157
		-36.3517	69.5751	05/28/02	222710

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN CONTIN. WELL WATER(Total)
 PCI/L - 0.037 BQ/L
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3125 WBN WELL #5 ONSITE N	TRITIUM	-61.8504 149.1884	70.4532 08/20/02 224171 71.5822 12/10/02 226181

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN GRAB WELL WATER(Total)
PCI/L - 0.037 BQ/L
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SSW	GROSS BETA			
		1.2766	.5774	03/05/02	221135
		2.1629	.6480	05/28/02	222687
		2.3993	.6452	08/20/02	224149
		1.5219	.5926	12/10/02	226156
	GAMMA SCAN (GELI)				
	BI-214	33.2937	4.8468	03/05/02	221135
		37.5476	3.9284	05/28/02	222687
		22.2593	4.3272	08/20/02	224149
		66.3402	6.5290	12/10/02	226156
	K-40	15.6690	14.5847	03/05/02	221135
		2.6671	14.3296	05/28/02	222687
		28.0266	22.6932	12/10/02	226156
	PB-212	1.6914	1.5034	03/05/02	221135
		2.7851	1.9604	12/10/02	226156
	PB-214	35.4481	5.1969	03/05/02	221135
		41.0492	4.4015	05/28/02	222687
		19.4280	3.7698	08/20/02	224149
		61.4650	6.6258	12/10/02	226156
	TRITIUM				
		69.2580	70.4735	03/05/02	221135
		59.0911	69.5500	05/28/02	222687
		97.4732	70.2582	08/20/02	224149
		125.9960	71.6447	12/10/02	226156

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN COMMERCIAL FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)		
		BI-214	.0646	.0139 05/08/02 222132
			.4076	.0336 11/01/02 225412
		CS-137	.0254	.0061 05/08/02 222132
		K-40	9.3107	.5444 05/08/02 222132
			9.9547	.5701 11/01/02 225412
		PB-214	.0501	.0166 05/08/02 222132
		.4468	.0353 11/01/02 225412	
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)		
		BI-214	.0545	.0127 05/08/02 222135
			.1399	.0205 11/01/02 225415
		CS-137	.1135	.0113 05/08/02 222135
			.0615	.0079 11/01/02 225415
		K-40	11.9438	.6514 05/08/02 222135
			13.1722	.6957 11/01/02 225415
	PB-214	.0567	.0208 05/08/02 222135	
		.1415	.0168 11/01/02 225415	
3261 DOWNSTREAM STATION 1 DOWNSTREAM		GAMMA SCAN (GELI)		
		BI-214	.0611	.0157 05/07/02 222203
			.1432	.0175 11/06/02 225467
		CS-137	.0172	.0041 05/07/02 222203
			.0350	.0072 11/06/02 225467
		K-40	10.2150	.5905 05/07/02 222203
			13.3650	.6949 11/06/02 225467
	PB-214	.0121	.0093 05/07/02 222203	
		.1462	.0182 11/06/02 225467	

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN GAME FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)						
		BI-212	.2292	.1031	05/08/02	222131		
		BI-214	.0360	.0110	05/08/02	222131		
			.2322	.0283	11/01/02	225411		
		CS-137	.0588	.0100	05/08/02	222131		
			.0394	.0064	11/01/02	225411		
		K-40	15.3158	.8203	05/08/02	222131		
			14.6920	.8798	11/01/02	225411		
		PB-214	.0420	.0129	05/08/02	222131		
			.2223	.0188	11/01/02	225411		
		2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)				
				BI-214	.0516	.0196	05/08/02	222134
	.2173			.0173	11/01/02	225414		
CS-137	.0754			.0081	05/08/02	222134		
	.0213			.0064	11/01/02	225414		
K-40	14.1534			.7322	05/08/02	222134		
	11.8821			.8046	11/01/02	225414		
PB-214	.0110			.0111	05/08/02	222134		
3261 DOWNSTREAM STATION 1 DOWNSTREAM		GAMMA SCAN (GELI)						
		AC-228	.0300	.0223	05/07/02	222202		
		BI-214	.0619	.0217	05/07/02	222202		
			.2410	.0265	11/06/02	225466		
		CS-137	.0662	.0094	05/07/02	222202		
		K-40	14.9701	.7523	05/07/02	222202		
			9.8716	.6126	11/06/02	225466		
		PB-214	.0460	.0151	05/07/02	222202		
			.2466	.0192	11/06/02	225466		

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3191 WATTS BAR RESORT	TRM 530	GAMMA SCAN (GELI)				
		AC-228	.1010	.0239	04/23/02	222193
			.1125	.0207	11/05/02	225456
		BE-7	.2747	.0373	04/23/02	222193
			.1014	.0251	11/05/02	225456
		BI-212	.0962	.0349	04/23/02	222193
			.1071	.0371	11/05/02	225456
		BI-214	.1654	.0168	04/23/02	222193
			.0958	.0117	11/05/02	225456
		K-40	.4211	.0789	04/23/02	222193
			.5050	.0759	11/05/02	225456
		PB-212	.0849	.0101	04/23/02	222193
			.0836	.0167	11/05/02	225456
		PB-214	.1658	.0153	04/23/02	222193
			.0967	.0098	11/05/02	225456
		RA-226	.1654	.0168	04/23/02	222193
			.0958	.0117	11/05/02	225456
		TL-208	.0314	.0062	04/23/02	222193
	.0360	.0041	11/05/02	225456		
3193 COTTON PORT MARINA	TRM 513	GAMMA SCAN (GELI)				
		AC-228	1.4732	.0893	04/24/02	222194
			1.5349	.0949	11/06/02	225458
		BE-7	.2100	.0461	04/24/02	222194
			.5947	.0680	11/06/02	225458
		BI-212	1.5421	.1410	04/24/02	222194
			1.6256	.1314	11/06/02	225458
		BI-214	.6658	.0454	04/24/02	222194
			.6374	.0382	11/06/02	225458
		CS-137	.0358	.0063	04/24/02	222194
			.0402	.0069	11/06/02	225458
		K-40	34.2147	1.4259	04/24/02	222194
			35.2367	1.4550	11/06/02	225458
		PA-234M	2.7692	1.0203	04/24/02	222194
		PB-212	1.4995	.0715	04/24/02	222194
			1.5818	.0667	11/06/02	225458
		PB-214	.6982	.0357	04/24/02	222194
			.7122	.0385	11/06/02	225458
RA-224	1.3723	.1652	04/24/02	222194		

TENNESSEE VALLEY AUTHORITY
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
 RADIOACTIVITY IN SHORELINE SEDIMENT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED	LAB NO
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)				
	RA-224	1.5632	.1593	11/06/02	225458
	RA-226	.6658	.0454	04/24/02	222194
		.6374	.0382	11/06/02	225458
	TL-208	.4701	.0250	04/24/02	222194
		.5011	.0273	11/06/02	225458

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3303 LV-3	LOW VOL WASTE POND	GAMMA SCAN (GELI)			
	AC-228	.8571	.0676	11/15/02	222206
	BE-7	.2565	.0636	11/15/02	222206
	BI-212	.9797	.0999	11/15/02	222206
	BI-214	.7417	.0462	11/15/02	222206
	CS-137	.0787	.0083	11/15/02	222206
	K-40	12.5469	.6290	11/15/02	222206
	PB-212	1.0087	.0480	11/15/02	222206
	PB-214	.8106	.0450	11/15/02	222206
	RA-224	1.0564	.1334	11/15/02	222206
	TL-208	.3060	.0203	11/15/02	222206
3305 YP-5	YARD POND	GAMMA SCAN (GELI)			
	AC-228	1.1577	.0733	11/15/02	222207
	BE-7	.1681	.0522	11/15/02	222207
	BI-212	1.1604	.0919	11/15/02	222207
	BI-214	.8429	.0504	11/15/02	222207
	CO-60	.0675	.0080	11/15/02	222207
	CS-137	.1428	.0130	11/15/02	222207
	K-40	15.0233	.7216	11/15/02	222207
	PB-212	1.1531	.0560	11/15/02	222207
	PB-214	.8868	.0699	11/15/02	222207
	RA-224	1.2022	.1539	11/15/02	222207
	TL-208	.3497	.0189	11/15/02	222207
3313 YP-13	YARD POND	GAMMA SCAN (GELI)			
	AC-228	1.2368	.0881	11/15/02	222208
	BE-7	.3545	.0771	11/15/02	222208
	BI-212	1.3765	.1006	11/15/02	222208
	BI-214	.8851	.0435	11/15/02	222208
	CO-60	.0622	.0086	11/15/02	222208
	CS-137	.2113	.0161	11/15/02	222208
	K-40	16.2247	.7252	11/15/02	222208
	PB-212	1.2761	.0607	11/15/02	222208
	PB-214	.9650	.0460	11/15/02	222208
	RA-224	1.2777	.1547	11/15/02	222208
	TL-208	.4027	.0205	11/15/02	222208
3316 YP-16	YARD POND	GAMMA SCAN (GELI)			
	AC-228	.9515	.0629	11/15/02	222209

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/31/01 TO 12/27/02

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3316 YP-16	YARD POND	GAMMA SCAN (GELI)			
	BE-7	.3415	.0470	11/15/02	222209
	BI-212	1.0061	.1140	11/15/02	222209
	BI-214	.7109	.0354	11/15/02	222209
	CO-58	.0231	.0067	11/15/02	222209
	CO-60	.0569	.0075	11/15/02	222209
	CS-137	.0462	.0093	11/15/02	222209
	K-40	9.9095	.5246	11/15/02	222209
	PA-234M	1.9092	.6061	11/15/02	222209
	PB-212	.9157	.0460	11/15/02	222209
	PB-214	.8460	.0439	11/15/02	222209
	RA-224	.9736	.1546	11/15/02	222209
	SB-125	.0787	.0148	11/15/02	222209
	TL-208	.3075	.0210	11/15/02	222209
3317 YP-17	YARD POND	GAMMA SCAN (GELI)			
	AC-228	.7146	.0520	11/15/02	222210
	BE-7	.1634	.0337	11/15/02	222210
	BI-212	.7623	.0813	11/15/02	222210
	BI-214	.5242	.0297	11/15/02	222210
	CO-58	.0158	.0045	11/15/02	222210
	CO-60	.0348	.0072	11/15/02	222210
	CS-137	.0323	.0053	11/15/02	222210
	K-40	9.1794	.5359	11/15/02	222210
	PB-212	.7518	.0365	11/15/02	222210
	PB-214	.5722	.0372	11/15/02	222210
	RA-224	.7088	.1404	11/15/02	222210
	SB-125	.0242	.0058	11/15/02	222210
	TL-208	.2316	.0152	11/15/02	222210