

# Annual Radiological Environmental Operating Report

Watts Bar  
Nuclear Plant  
1994



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ANNUAL RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT

WATTS BAR NUCLEAR PLANT

1994

TENNESSEE VALLEY AUTHORITY

ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION

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## EXECUTIVE SUMMARY

This report describes the preoperational environmental radiological monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 1994. 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 will not be influenced by plant operations. Station locations are selected after careful consideration of the weather patterns and projected radiation doses to the various areas around the plant. Material sampled includes air, water, milk, foods, vegetation, soil, fish, sediment, and direct radiation levels. During plant operations, results from stations near the plant will be compared with concentrations from control stations and with preoperational measurements to determine potential impacts to the public.

Exposures calculated from environmental samples were contributed by naturally occurring radioactive materials, from materials commonly found in the environment as a result of atmospheric fallout, or from the operation of other nuclear facilities in the area. Since WBN has not operated, there has been no contribution of radioactivity from the plant to the environment.

## INTRODUCTION

This report describes and summarizes a large volume of data, the results of thousands of measurements and laboratory analyses. The measurements are made to determine the existing background radioactivity levels in the area of WBN and to comply with the requirements of 10 CFR 50, Appendix A, Criterion 64 and 10 CFR 50, Appendix I, Section IV.B. The requirements for the Radiological Environmental Monitoring Program (REMP) are outlined in Control 1.3.1 of the Offsite Dose Calculation Manual (ODCM) and the program is described in Section 9 of the ODCM. Some of the data presented are prescribed by specific requirements, while other data are included which may be useful or interesting to individuals who do not work with this material routinely.

### Naturally Occurring and Background Radioactivity

Most materials in our world contain trace amounts of naturally occurring radioactivity. Approximately 0.01 percent of all potassium is radioactive potassium-40. 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. An individual weighing 150 pounds contains about 140 grams of potassium (Reference 1). This is equivalent to approximately 100,000 pCi of K-40 which delivers a dose of 15 to 20 mrem per year to the bone and soft tissue of the body. Naturally occurring radioactive materials have always been in the environment. 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, uranium-235, thorium (Th)-234, radium (Ra)-226, radon (Rn)-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. We are all exposed to this natural radiation 24 hours per day.

The average dose equivalent at sea level resulting from radiation from outer space (part of natural background radiation) is about 27 mrem/year. This essentially doubles with each 6600-foot increase in altitude in the lower atmosphere. Another part of natural background radiation comes from naturally occurring radioactive materials in the soil and rocks. Because the quantity of naturally occurring radioactive material varies according to geographical location, the part of the natural background radiation coming from this radioactive material also depends upon the geographical location. Most of the remainder of the natural background radiation comes from the radioactive materials within each individual's body. We absorb these materials from the food we eat which contains naturally occurring radioactive materials from the soil. An example of this is K-40 as described above. Even building materials affect the natural background radiation levels in the environment. Living or working in a building which is largely made of earthen material, such as concrete or brick, will generally result in a higher natural background radiation level than would exist if the same structure were made of wood. This is due to the naturally occurring radioisotopes in the concrete or brick, such as trace amounts of uranium, radium, thorium, etc.

Because the city of Denver, Colorado, is over 5000 feet in altitude and the soil and rocks there contain more radioactive material than the U.S. average,

the people of Denver receive around 350 mrem/year total natural background radiation dose equivalent compared to about 295 mrem/year for the national average. People in some locations of the world receive over 1000 mrem/year natural background radiation dose equivalent, primarily because of the greater quantity of radioactive materials in the soil and rocks in those locations. Scientists have never been able to show that these levels of radiation have caused harmful effects to anyone.

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 table, 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.

Significant discussion recently has centered around exposures from radon. Radon is an inert gas given off as a result of the decay of naturally occurring Ra-226 in soil. When dispersed in the atmosphere, radon concentrations are relatively low. However, when the gas is trapped in closed spaces, it can build up until concentrations become significant. The National Council of Radiation Protection and Measurements (Reference 2) has estimated that the average annual effective dose equivalent from radon in the United States is approximately 200 mrem/year. This estimated dose is approximately twice the average dose equivalent from all other natural background sources.

#### 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. However, nuclear plants include many complex systems to control the nuclear fission process and to safeguard against the possibility of reactor malfunction, which could lead to the release of radioactive materials.

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.

At WBN releases will be monitored at the onsite points of release and through the environmental radiological monitoring program which will measure the environmental radiation in outlying areas around the plant. In this way, not only will the release of radioactive materials from the plant be tightly controlled, but measurements will be made in surrounding areas to verify that the population will not be exposed to significant levels of radiation or radioactive materials.

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 about 1.25 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, 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.

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 160,000, 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 in scattered locations.

The WBN consists of two pressurized water reactors: each unit is rated at 1160 megawatts (electrical).

## ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM

The unique environmental concern associated with a nuclear power plant is its production of radioactive materials and radiation. The vast majority of this radiation and radioactivity is contained within the reactor itself or one of the other plant systems designed to keep the material in the plant. The retention of the materials in each level of control is achieved by system engineering, design, construction, and operation. Environmental monitoring is a final verification that the systems are performing as planned. The monitoring program is designed to most efficiently 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 Environmental Radiological Monitoring Program 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 identification 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 program in 1994 are described in Appendix B and exceptions to the sampling and analysis schedule are presented in Appendix C.

To determine the amount of radioactivity in the environment prior to the operation of WBN, a preoperational environmental radiological monitoring program was initiated in December 1976 and continues to operate today. Measurements of the same types of radioactive materials that are expected from an operating plant are assessed during the preoperational phase to establish normal background levels for various radionuclides in the environment.

The preoperational monitoring program is a very important part of the overall program. During the 1950s, 60s, and 70s, atmospheric nuclear weapons testing released radioactive material to the environment causing fluctuations in background radiation levels. This radioactive material is the same type as that which will be produced in the WBN reactors. Preoperational knowledge of

preexisting radionuclide patterns in the environment will permit a determination, through comparison and trending analyses, of whether the operation of WBN is impacting the environment and thus the surrounding population. The determination of 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) will be compared with those from indicator stations (near the plant) to aid in the determination of the impacts from WBN after the plant becomes operational.

All samples are analyzed by the radioanalytical laboratory of TVA's Environmental Radiological Monitoring and Instrumentation 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. A listing of the results of the analyses of all radiological environmental samples and of all environmental radiation measurements taken during 1994 are presented in the Data Supplement to this report.

The sophisticated radiation detection devices used to determine the radionuclide content of samples collected in the environment are generally quite sensitive to small amounts of radioactivity. In the field of radiation measurement, the sensitivity of the measurement process is discussed in terms of the lower limit of detection (LLD). A description of the nominal LLDs for the Radioanalytical Laboratory is presented in Appendix E.

The Radioanalytical Laboratory employs 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 complex radiation detection devices are working properly and the analysis of special samples which are included alongside routine environmental samples. The laboratory participates in the Environmental Protection Agency (EPA) Interlaboratory Comparison Program. In addition, samples split with the EPA and with the State of Tennessee provide an independent 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.

Radiation levels measured in the area around the WBN site in 1994 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). When certain materials are exposed to ionizing radiation, many of the electrons which become displaced are trapped in the crystalline structure of the material. They remain trapped for long periods of time as long as the material is not heated. When heated (thermo-), the electrons are released, producing a pulse of light (-luminescence). The intensity of the light pulse is proportional to the amount of radiation to which the material was exposed. Materials which display these characteristics are used in the manufacture of TLDs.

From 1977 through 1989, TVA used a Victoreen dosimeter consisting of a manganese activated calcium fluoride ( $\text{Ca}_2\text{F:Mn}$ ) TLD material encased in a glass

bulb. In 1989, TVA began the process of changing from the Victoreen dosimeter to the Panasonic Model UD-814 dosimeter, and completely changed to the Panasonic dosimeter in 1990. This dosimeter contains four elements consisting of one lithium borate and three calcium sulfate phosphors. The calcium sulfate phosphors are shielded by approximately 1000 mg/cm<sup>2</sup> 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 three TLDs at each station. Sixteen stations are located around the plant near the site boundary, one station in each of the 16 compass sectors. An additional 16 stations 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 six additional stations out to approximately 32 miles from the site. The TLDs are exchanged every 3 months and the accumulated exposure on the detectors is read with a Panasonic Model UD-710A automatic reader interfaced with a Hewlett Packard Model 9000 computer system. Eight of the locations also have TLD devices which are processed by the NRC. The results from the NRC measurements are reported in NUREG 0837.

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 nine calcium sulfate phosphors in three detectors. 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 stations are grouped according to the distance from the plant. The first group consists of stations 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 between 4 and 6 miles, and the fifth group is made up of stations 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, stations 2 miles or less from the plant are identified as "onsite" stations and all others are considered "offsite."

The quarterly gamma radiation levels determined from the TLDs deployed around WBN in 1994 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 and reported in millirem per standard quarter. For purposes of this report, one milliroentgen and one millirem (mrem) are assumed to be equivalent. The rounded average annual exposures are shown below. For comparison purposes, the average direct radiation measurements made in the preoperational monitoring program are also shown.

	Annual Average Direct Radiation Levels WBN mrem/year	
	1994	Preoperational Average
Onsite Stations	65	76
Offsite Stations	58	65

The data in Table H-1 indicate that the average quarterly radiation levels at the WBN onsite stations are approximately 2 mrem/quarter higher than levels at the offsite stations. This difference was also noted in the preoperational monitoring at the Browns Ferry and Sequoyah Nuclear Plants and at other nonoperating TVA nuclear power plant construction sites where the average levels onsite are generally 2-6 mrem/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 1977 through 1994. To reduce the seasonal variations present in the data sets, a 4-quarter moving average was constructed for each data set. Figure H-2 presents a trend plot of the direct radiation levels as defined by the moving averages. The data follow the same general trend as the raw data, but the curves are much smoother.

The results reported in 1994 are consistent with direct radiation levels reported in previous years.

## 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 in communities out to about 12 miles from the plant, and two remote air monitors are located out to 20 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.

As a result of delays in the scheduled fuel load date for WBN, the atmospheric monitoring program was discontinued for calendar year 1989. The full program was restarted in January 1990. The results from the program conducted in 1994 are included in this report.

### 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 Hollingsworth and Vose LB5211 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 every 7 days. 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 for gamma-emitting radionuclides (gamma spectroscopy). On a quarterly basis, the filters are composited by location and analyzed for strontium (Sr)-89,90.

Gaseous radioiodine is collected 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 iodine (I)-131 by gamma spectroscopy.

Heavy particle fallout is collected on an 11-inch by 11-inch sheet of gummed acetate paper. The paper is clamped to a mount on the side of the monitoring building and is collected every 4 weeks. Gross beta activity is determined on each sample.

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 analyzed for gamma emitting radioisotopes and for Sr-89,90.

### Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 1994 was consistent with levels reported in

previous years. The average level at indicator stations was 0.020 pCi/m<sup>3</sup> and the average at control stations was 0.019 pCi/m<sup>3</sup>. The annual averages of the gross beta activity in air particulate filters at these stations for the years 1971-1994 are presented in Figure H-3. Increased levels due to fallout from atmospheric nuclear weapons testing are evident, especially in 1971, 1977, 1978, and 1981. Evidence of a small increase resulting from the Chernobyl accident can also be seen in 1986. These patterns are consistent with data from monitoring programs conducted by TVA at nonoperating nuclear power plant construction sites.

Only natural radioactive materials were identified by the monthly gamma spectral analysis of the air particulate samples. No fission or activation products were found at levels greater than the LLDs. As shown in Table H-4, I-131 was not detected in any charcoal canister samples collected in 1994.

Gross beta activity in fallout samples was consistent with levels reported in previous years. As shown in Table H-5, the average concentration at indicator stations was 0.14 mCi/km<sup>2</sup> and the average at the control stations was 0.12 mCi/km<sup>2</sup>.

Only natural radioactive materials were identified by gamma spectral analysis of rainwater samples. Results are presented in Table H-6.

## 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, vegetation, 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-7 through H-16.

A land use survey is conducted periodically 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. From these data, radiation doses are projected for individuals living near the plant. Doses from breathing air (air submersion) are calculated for the nearest resident 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. The doses projected as a result of the 1994 land use survey are presented in Appendix G.

### Sample Collection and Analysis

Milk samples are purchased every 2 weeks from three indicator dairies and from at least one of three control dairies. In addition, samples were collected from a farm producing milk for private consumption as they were available. For this sample period, thirteen samples were collected from this farm. Milk samples are placed on ice for transport to the radioanalytical laboratory. I-131 analyses are performed on each sample and every 4 weeks samples are analyzed for gamma emitting isotopes and for Sr-89 and Sr-90. Beginning March 1, 1994, a gamma spectral analysis was performed on each milk sample. In addition, samples from the three control stations are analyzed by gamma spectroscopy every 2 weeks as a part of the SQN monitoring program.

Samples of vegetation are collected monthly from the three indicator milk sampling stations, from the farm producing milk for private consumption and from one control station. Prior to March 1, 1994, vegetation samples were collected quarterly. The samples are collected by cutting or breaking enough vegetation to provide between 100 and 200 grams of sample. Care is taken not to include any soil with the vegetation. After drying and grinding, each sample is analyzed by gamma spectroscopy. Once each quarter, the sample is ashed after the gamma analysis is completed and analyzed for Sr-89,90.

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-89,90.

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 1994 samples of cabbage, corn, green beans, potatoes, and tomatoes were collected from local vegetable gardens. In addition, samples of apples and beef were also obtained from the area. 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-7. All I-131 values were below the established nominal LLD of 0.4 pCi/liter. Sr-90 was found in less than one-fourth of the samples. These levels are consistent with concentrations measured in samples collected in TVA's preoperational environmental radiological monitoring programs and with concentrations reported in milk as a result of fallout from atmospheric nuclear weapons tests (Reference 1). Figure H-4 displays the average Sr-90 concentrations measured in milk since 1976. The concentrations have steadily decreased as a result of the 28-year half-life of Sr-90 and the washout and transport of the element through the soil over the period. The average Sr-90 concentration reported from indicator stations was 4.6 pCi/liter. An average of 3.5 pCi/liter was identified in samples from control stations. By far the predominate isotope reported in milk samples was the naturally occurring K-40. An average of approximately 1300 pCi/liter of K-40 was identified in all milk samples.

As has been noted in the environmental radiological monitoring reports for SQN, the levels of Sr-90 in milk samples from farms producing milk for private

consumption only are up to six times the levels found in milk from commercial dairy farms. Samples of feed and water supplied to the animals were analyzed in 1979 in an effort to determine the source of the strontium. Analysis of dried hay samples indicated levels of Sr-90 slightly higher than those encountered in routine vegetation samples. Analysis of pond water indicated no significant strontium activity.

This phenomenon was observed during the preoperational radiological monitoring near SQN and near the Bellefonte Nuclear Plant construction site at farms where only one or two cows were being milked for private consumption of the milk. It is postulated that the feeding practices of these small farms differ from those of the larger dairy farmers to the extent that fallout from atmospheric nuclear weapons testing may be more concentrated in these instances. Similarly, Hansen, et al. (Reference 4), reported an inverse relationship between the levels of Sr-90 in milk and the quality of fertilization and land management. From 1982 through 1991 milk was sampled from 2 smaller dairy farms in the vicinity of WBN that exhibited Sr-90 levels similar to those found at small farms milking for private use only. During part of 1994, milk was sampled from a farm producing milk for private consumption only.

Results from the analysis of vegetation samples are presented in Table H-8. All Cs-137 values were less than the nominal LLD. Sr-90 concentrations averaged 19.4 pCi/kg at indicator stations and 12.5 pCi/Kg at control stations. Again, the highest concentrations identified were for the naturally occurring isotopes K-40 and Be-7.

The only fission product identified in soil samples was Cs-137. The maximum concentration of Cs-137 was 0.6 pCi/g. This value is consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes (Table H-9).

A plot of the annual average Cs-137 concentrations in soil is presented in Figure H-5. Like the levels of Sr-90 in milk, 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.

All radionuclides reported in food samples were naturally occurring. The maximum K-40 value was 2970 pCi/kg in potatoes. The results are reported in Tables H-10 through H-16.

## AQUATIC MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of edible fish and clams, or from direct radiation exposure from radioactive materials deposited in the river sediment. The aquatic monitoring program includes the collection of samples of river (reservoir) water, groundwater, drinking water supplies, fish, Asiatic clams, plankton and bottom and shoreline sediment. Samples from the reservoir are collected both upstream and downstream from the plant.

Results from the analysis of aquatic samples are presented in Tables H-17 through H-26. Radioactivity levels in water, fish, sediment, and clams were consistent with background and/or fallout levels previously reported. The presence of Cs-137 was identified in some samples. Since WBN has not yet loaded fuel, these activity levels are from some other sources, such as fallout or other operations in the area.

### Sample Collection and Analysis

Samples of surface water are collected from the Tennessee River using automatic sampling pumps from two downstream stations and one upstream station. A timer turns on the pump 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 Sr-89,90 and for tritium.

Samples are also collected by an automatic sampling pump at the first downstream drinking water intake. These samples are collected in the same manner as the surface water samples. Grab samples are taken monthly from two public water supplies at control locations where the water is not taken from the Tennessee River. The monthly samples are analyzed for gamma-emitting radionuclides and for gross beta activity. Quarterly composites are analyzed for Sr-89, Sr-90, and tritium. The downstream stations are also analyzed for I-131 content. The samples collected by the automatic pumping device are taken directly from the river at the intake structure. Since the sample at this point is raw water, not water processed through the water treatment plant, the control sample should also be unprocessed water. Therefore, the upstream surface water sample is also considered as a control sample for drinking water.

Groundwater is sampled from an onsite well and from a private well in an area unaffected by WBN. The samples are analyzed monthly for gross beta activity and for gamma emitting radionuclides and quarterly for Sr-89,90 and tritium content. Prior to March 1, 1994, only gamma and tritium analyses were performed.

Samples of commercial and game fish species are collected semiannually from each of three reservoirs: the reservoir on which the plant is located (Chickamauga Reservoir), the upstream reservoir (Watts Bar Reservoir), and the downstream reservoir (Nickajack Reservoir). The samples are collected using a combination of netting techniques and electrofishing. Most of the fish are filleted, but one group is processed whole for analysis. After drying and

grinding, the samples are analyzed by gamma spectroscopy. Samples of the commercial species (smallmouth buffalo) are analyzed for Sr-89 and Sr-90 content.

Bottom sediment is collected semiannually from selected Tennessee River Mile (TRM) locations using a dredging apparatus or divers. Samples of shoreline sediment are also taken from recreation areas in the vicinity of the plant. The samples are dried and ground and analyzed by gamma spectroscopy. After this analysis is complete, the samples are ashed and analyzed for Sr-89,90.

Efforts are made to sample Asiatic clams semiannually from the same locations as the bottom sediment. The clams are usually collected in the same process with the sediment. However, the clams are becoming more and more difficult to find. Enough clams are collected to produce approximately 50 grams of wet flesh. The flesh is separated from the shells and the dried flesh samples are analyzed by gamma spectroscopy.

Plankton samples are also collected at the same locations as the sediment. The samples are collected by vertical tows with an 80 micro meter net. Each sample is analyzed for gamma-emitting radionuclides and for gross beta activity. When quantities are sufficient, samples are analyzed for Sr-89,90 content. During this period, sufficient plankton samples could not be collected for analysis.

### Results

Gross beta activity was present in most of the surface water samples. Concentrations averaged 3.1 pCi/liter in downstream samples and 2.6 pCi/liter

in upstream samples. All other activity was consistent with previously reported levels from fallout or naturally occurring isotopes. A trend plot of the gross beta activity in surface water samples from 1977 through 1994 is presented in Figure H-6. A summary table of the results is shown in Table H-17.

No fission or activation products were identified in drinking water samples. Average gross beta activity was 2.6 pCi/liter at downstream stations and 2.5 pCi/liter at upstream stations. The results are shown in Table H-18 and a trend plot of the gross beta activity in drinking water from 1977 through 1994 is presented in Figure H-7.

Concentrations of all fission and activation products in ground water were all below the LLDs. Only naturally occurring radionuclides were identified in these samples. The results are presented in Table H-19.

Cs-137 was identified in six fish samples. The downstream samples contained a maximum of 0.09 pCi/g, while the upstream sample had a maximum of 0.10 pCi/g. Other radioisotopes found in fish were naturally occurring, with the most notable being K-40. The concentrations of K-40 ranged from 4.6 pCi/g to 20.2 pCi/g. Sr-90 concentrations in whole smallmouth buffalo averaged 0.09 pCi/g in downstream samples and 0.12 pCi/g in samples collected from the upstream reservoir. The positive identification of Sr-89 in environmental media at levels near the LLD's is typically a result of artifacts in the calculational process and the low concentrations the laboratory is attempting to detect and is not an indication of the presence of Sr-89 in the environment.

The results are summarized in Tables H-20, H-21, H-22, and H-23. Plots of the annual average Cs-137 concentrations are presented in Figures H-8, H-9, H-10, and H-11. The Cs-137 and Sr-90 activities are a result of fallout or other upstream effluents.

Radionuclides of the types produced by nuclear power plant operations were identified in sediment samples. The materials identified were Cs-137 and Sr-90. In bottom sediment samples the average levels of Cs-137 were 0.30 pCi/g in downstream samples and 0.25 pCi/g upstream.

Sr-90 concentrations averaged 0.72 pCi/g downstream and 0.56 pCi/g upstream. In shoreline sediment, Cs-137 levels averaged .08 pCi/g in downstream samples. All concentrations in upstream samples were below the LLD. Sr-90 was not identified in shoreline sediment samples. Results from the analysis of bottom sediment and shoreline sediment samples are shown in Tables H-24 and H-25, respectively. Trend plots of the average Cs-137 and Co-60 concentrations in bottom sediment samples are presented in Figures H-12 and H-13, respectively. A plot of the Cs-137 concentrations in shoreline sediment is presented in Figure H-14.

Only naturally occurring radioisotopes were identified in clam flesh samples. The results from the analysis of clam samples are shown in Table H-26.

## ASSESSMENT AND EVALUATION

For operating nuclear power plants, 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 area around the plant is analyzed to determine the pathways through which the public may receive an exposure. As indicated in Figure 2, the two major ways by which radioactivity is introduced into the environment are through liquid and gaseous effluents.

For liquid effluents, the public can be exposed to radiation from three sources: drinking water from the Tennessee River, eating fish caught in the Tennessee River, and direct exposure to radioactive material due to activities on the banks of the river (recreational activities). For gaseous effluents, the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of radioactivity in the air, ingestion of vegetation which contains radioactivity deposited from the atmosphere, and ingestion of milk or meat from animals which consumed vegetation containing deposited radioactivity.

The results from each sample are compared with the concentrations from the corresponding control stations to establish the relationship between these

stations during the preoperational phase of the monitoring program. During this report period, Sr-90 was found in milk samples from both indicator and control stations. Cs-137 was identified in most soil samples and in aquatic media. Cs-137 in fish and sediment is consistent with fallout levels identified in samples both upstream and downstream from the plant. No increases of radioactivity have been seen in water samples.

Dose estimates were made from concentrations of radioactivity found in samples of environmental media. Media evaluated include, but are not limited to, air, milk, food products, drinking water, and fish. Inhalation and ingestion doses estimated for persons at the indicator locations were essentially identical to those determined for persons at control stations. Concentrations of Sr-90 and Cs-137 are consistent with levels measured in TVA's preoperational environmental radiological monitoring programs.

### Conclusions

Since WBN has not achieved criticality, there has been no contribution of radioactivity from the plant to the environment. The levels of radioactivity reported in this document are due to natural background radiation, fallout from nuclear weapons testing, fallout from the Chernobyl nuclear power station accident, or other nuclear operations in the area.

## REFERENCES

1. Merril 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.
4. Hansen, W. G., Campbell, J. E., Fooks, J. H., Mitchell, H. C., and Eller, C. H., Farming Practices and Concentrations of Emission Products in Milk, U.S. Department of Health, Education, and Welfare; Public Health Service Publication No. 999-R-6, May 1964.

Table 1

COMPARISON OF  
MAXIMUM ANNUAL AVERAGE EFFLUENT CONCENTRATIONS  
RELEASED TO UNRESTRICTED AREAS  
WITH REPORTING LEVELS AND LOWER LIMITS OF DETECTION

	<u>Concentrations in Water, pCi/Liter</u>			<u>Concentrations in Air, pCi/Cubic Meter</u>		
	<u>Effluent Concentration<sup>1</sup></u>	<u>Reporting Level<sup>2</sup></u>	<u>Lower Limit of Detection<sup>3</sup></u>	<u>Effluent Concentration<sup>1</sup></u>	<u>Reporting Level<sup>2</sup></u>	<u>Lower Limit of Detection<sup>3</sup></u>
H-3	1,000,000	20,000	250	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	30,000	300	5	50		0.005
Zn-65	5,000	300	10	400		0.005
Sr-89	8,000		3	1,000		0.0006
Sr-90	500		1.4	6		0.0003
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	1	200	0.9	0.02
Cs-134	900	30	5	200	10	0.005
Cs-137	1,000	50	5	200	20	0.005
Ce-144	3,000		33	40		0.01
Ba-140	8,000	200	25	2,000		0.01
La-140	9,000	200	8	2,000		0.005

Note: 1 pCi =  $3.7 \times 10^{-2}$  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 2.3-3

3 Source: Table E-1 of this report

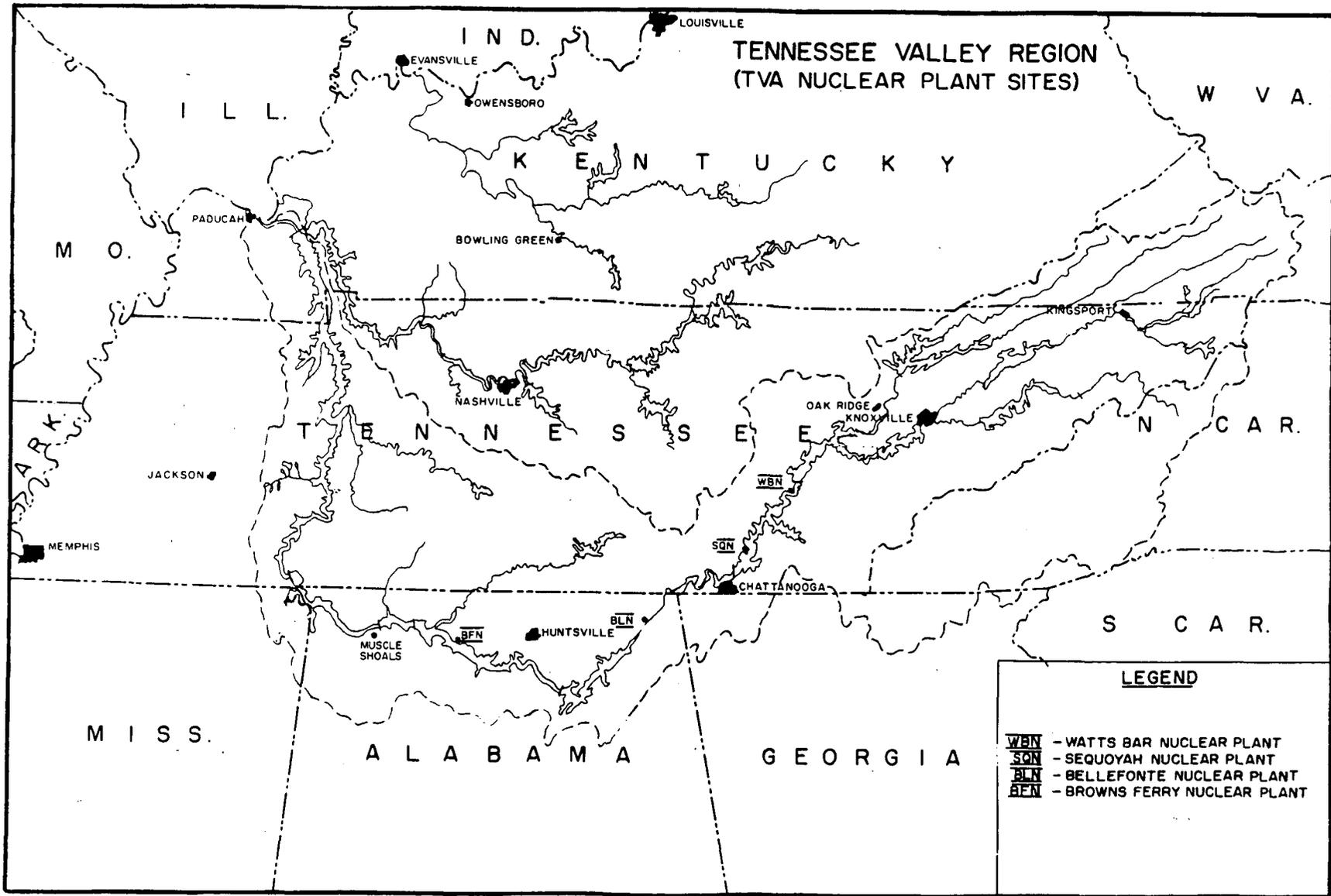
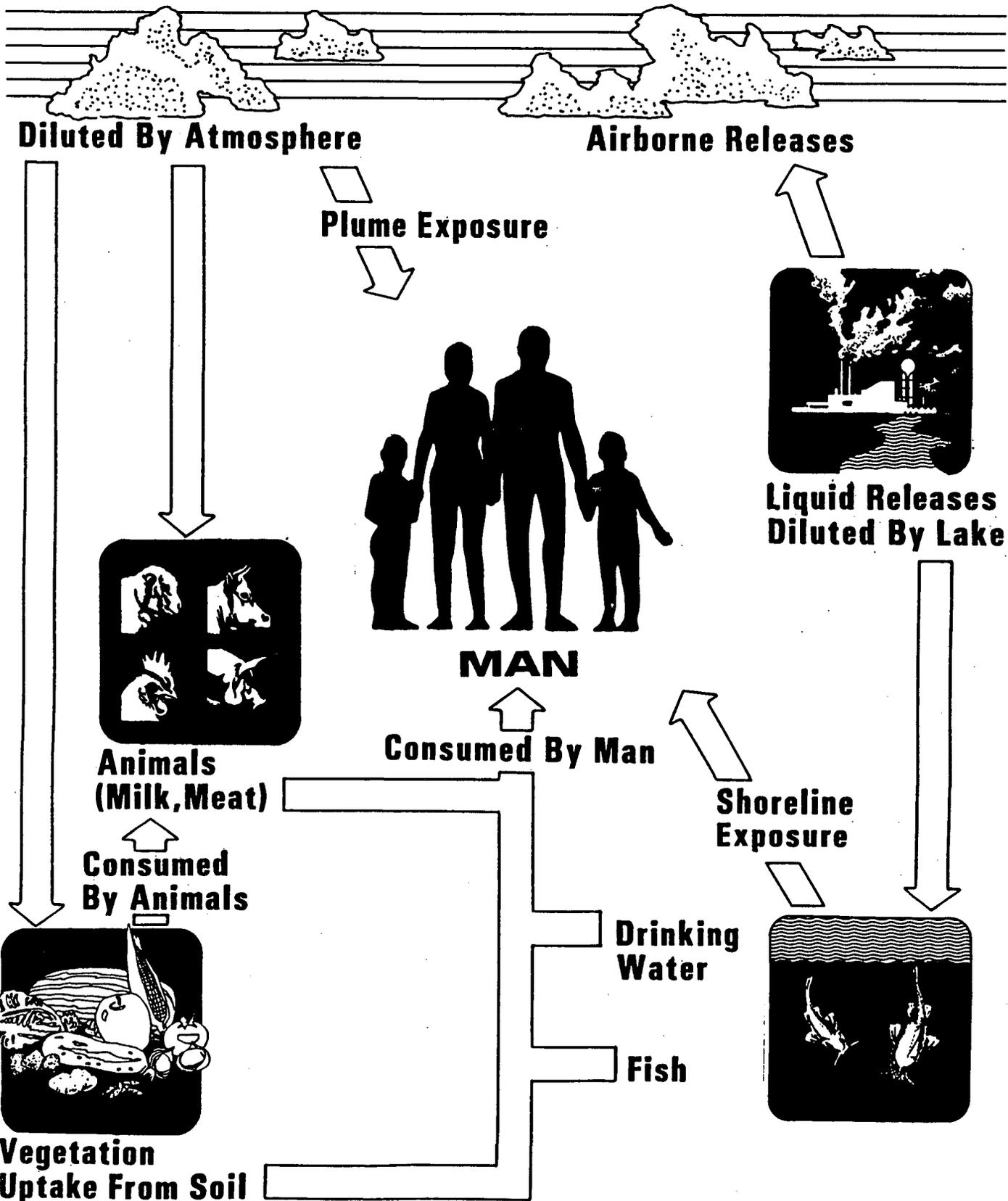


Figure 1

Figure 2

**ENVIRONMENTAL EXPOSURE PATHWAYS OF MAN  
DUE TO RELEASES OF RADIOACTIVE MATERIAL  
TO THE ATMOSPHERE AND LAKE.**



APPENDIX A

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM AND

SAMPLING LOCATIONS

Table A-1

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM<sup>a</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations<sup>b</sup></u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
1. AIRBORNE			
a. Particulates	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4)	Continuous sampler operation with sample collection once per 7 days (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. Composite quarterly for Sr-89 and Sr-90 analysis.
	4 samples from communities approximately 6-10 miles from the plant (PM-2, 3, 4, and 5)		
	2 samples from control locations greater than 10 miles from the plant (RM-1 and 3)		
b. Radioiodine	Samples from same locations as air particulates	Continuous sampler operation with filter collection once per 7 days	I-131 at least once per 7 days
c. Fallout	Samples from same locations as air particulates	Heavy particle fallout collected continuously on gummed acetate paper with paper collected monthly	Gross beta monthly
d. Rainwater	Samples from same locations as air particulates	Rainwater collected continuously with composite sample analyzed monthly	Gamma scan, Sr-89, and Sr-90 monthly
e. Soil	Samples from same locations as air particulates	Once per year	Gamma scan, Sr-89, Sr-90 once per year

Table A-1 (Continued)

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM<sup>a</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations<sup>b</sup></u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
2. DIRECT	<p>2 or more dosimeters (TLDs) placed (in different sectors) 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 approximately 16 additional locations of special interest.</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 <sup>c</sup> with composite samples collected over a period of approximately 31 days	Gross beta and gamma scan of each composite sample. Composite for Sr-89, Sr-90, and tritium analysis at least once per 92 days
b. Ground	<p>One sample adjacent to plant (well No. 1)</p> <p>1 sample from ground water source upgradient (Farm L)</p>	<p>Collected by automatic sequential-type sampler<sup>c</sup> with composite samples collected over a period of approximately 31 days</p> <p>Grab sample monthly</p>	Gross Beta and Gamma scan on each sample. Composite quarterly for Sr-89, 90 and tritium analyses.

Table A-1 (Continued)

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM<sup>a</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations<sup>b</sup></u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
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 <sup>c</sup> with composite sample analyzed monthly <sup>e</sup>	Gross beta, I-131, and gamma scan on each composite. Quarterly composite also analyzed for tritium, Sr-89, and Sr-90
	1 sample at a control location (TRM 529.3 <sup>d</sup> )		
	2 samples of drinking water from public supplies near WBN (Spring City and Watts Bar Reservation, both control stations from sources other than the Tennessee River)	Monthly grab samples	Gross beta and gamma scan on each sample. Composite quarterly for Sr-89, Sr-90, and tritium.
d. Sediment	1 sample in the area immediately downstream of plant discharge (TRM 527.4)	At least once per 184 days	Gamma scan, Sr-89, and Sr-90 analyses of each sample
	2 additional samples downstream of plant discharge (TRM 518.0 and 496.5)		
	1 sample at a control location upstream from plant discharge (TRM 532.1)		
e. Sediment from shoreline	1 sample downstream from plant discharge (TRM 513.0)	At least once per 184 days	Gamma scan, Sr-89 and Sr-90 analyses on each sample
	1 sample from a control location upstream from plant discharge (TRM 530.2)		

Table A-1 (Continued)

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM<sup>a</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations<sup>b</sup></u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
f. Plankton	Same locations as sediment	At least once per 184 days	Gross beta and Gamma scan on each sample. Sr-89 and Sr-90 when quantities are sufficient.
5. INGESTION			
a. Milk	3 samples from farms and/or dairies in the immediate vicinity of the plant (Farms L, Mu and N)  1 or more samples from control locations (Farms B, C, and/or S) (Also used at SQN)	Every 2 weeks	I-131 and gamma analysis on each sample. Sr-89 and Sr-90 once per month.
b. Fish	1 sample each of a commercially and a recreationally important species from Nickajack, Chickamauga, and Watts Bar Reservoirs	At least once per 184 days. At least two of the following species shall be sampled:  Channel Catfish, Crappie Smallmouth Buffalo	Gamma scan on edible portions.
c. Clams	1 sample in the area immediately downstream of plant discharge (TRM 527.4)  2 additional samples downstream of plant discharge (TRM 518.0 and 496.5)  1 sample at a control location upstream from plant discharge (TRM 532.1)	At least once per 184 days	Gamma scan on flesh only

Table A-1 (Continued)

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM<sup>a</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations<sup>b</sup></u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
e. Vegetation (Pasturage and grass)	3 samples from dairy farms from which milk is obtained. (Farms L, Mu and N)	Monthly	Gamma scan on each sample Sr-89 and Sr-90 analyses at least once per 92 days.
	1 sample from a control location (Farm S; also used for SQN)	Monthly	
e. 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:	Gamma scan on edible portion
	1 sample of each of the same foods grown at distances of greater than 10 miles from the plant	Cabbage and/or Lettuce Corn Green Beans Potatoes Tomatoes	

- a. The sampling program outlined in this table is that which was in effect at the end of 1993.
- b. Sample locations are shown on Figures A-1, A-2, and 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. The two downstream sampling stations are also part of the Sequoyah Nuclear Plant (SQN) monitoring program.

Table A-2

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM  
SAMPLING LOCATIONS

Map <sup>a</sup> Location Number	Station	Sector	Approximate Distance (miles)	Indicator (I) or Control (C)	Samples <sup>b</sup> Collected
2	PM-2	NW	7.0	I	AP,CF,FO,R,S
3	PM-3	NNE	10.4	I	AP,CF,FO,R,S
4	PM-4	NE/ENE <sup>c</sup>	7.6	I	AP,CF,FO,R,S
5	PM-5	S	6.2	I	AP,CF,FO,R,S
6	RM-2	SW	15.0	C	AP,CF,FO,R,S
7	RM-3	NNW	15.0	C	AP,CF,FO,R,S
8	LM-1	SSW	0.5	I	AP,CF,FO,R,S
9	LM-2	N	0.5	I	AP,CF,FO,R,S
10	LM-3	NNE	1.9	I	AP,CF,FO,R,S
11	LM-4	SE	0.9	I	AP,CF,FO,R,S
12	Farm L	SSW	1.3	I <sup>d</sup>	M,V,W
15	Farm B	E	15.0	C	M
16	Farm C	SSW	16.0	C	M
17	Farm S	SW	19.5	C	M,V
18	Well #1	S	0.6	I	W
19	Farm Mu	ESE	3.7	I	M,V
20	Farm N	ESE	4.1	I	M,V
21	Farm OH	WSW	4.8	I	V
25	TRM 517.9	--	9.9 <sup>e</sup>	I	SW
25a	TRM 518.0	--	9.8 <sup>e</sup>	I	CL,P,SD
26	TRM 523.1	--	4.7 <sup>e</sup>	I	SW
27	TRM 529.3	--	1.5 <sup>e</sup>	C	SW <sup>f</sup>
28	TRM 532.1	--	4.3 <sup>e</sup>	C	CL,P,SD
29	TRM 527.4	--	0.4 <sup>e</sup>	I	CL,P,SD
31	TRM 473.0 (C.F. Industries)	--	54.8 <sup>e</sup>	I	PW
32	TRM 513.0	--	14.8 <sup>e</sup>	I	SS
33	TRM 530.2	--	2.4 <sup>e</sup>	C	SS
35	TRM 503.8 (Dayton)	--	24.0 <sup>e</sup>	I	PW
36	TRM 496.5	--	31.3 <sup>e</sup>	I	CL,P,SD
37	TRM 425-471 (Nickajack Lake)	--	--	I	F

Table A-2 (Continued)

WATTS BAR NUCLEAR PLANT  
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM  
SAMPLING LOCATIONS

Map <sup>a</sup> Location Number	Station	Sector	Approximate Distance (miles)	Indicator (I) or Control (C)	Samples <sup>b</sup> Collected
38	TRM 471-530 (Chickamauga Lake)	--	--	I	F
39	TRM 530-602 (Watts Bar Lake)	--	--	C	F
40	Watts Bar Reservation	N	1-2	C	PW
90	Piney River Mile 5.7	--	7.6 <sup>e</sup>	C	PW

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

b. Sample codes:

AP = Air particulate filter

CF = Charcoal filter

CL = Clams

F = Fish

FO = Fallout

M = Milk

P = Plankton

PW = Public water

R = Rainwater

S = Soil

SD = Sediment

SS = Shoreline sediment

SW = Surface water

V = Vegetation

W = Well water

c. Station located on boundary between these sectors.

d. A control for well water.

e. Distance from plant discharge (TRM 527.8).

f. Surface water sample also used as a control for public water.

Table A-3

WATTS BAR NUCLEAR PLANT  
THERMOLUMINESCENT DOSIMETER (TLD) LOCATIONS

<u>Map<sup>a</sup> Location Number</u>	<u>Station</u>	<u>Sector</u>	<u>Approximate Distance (miles)</u>	<u>Onsite (On)<sup>b</sup> or Offsite (Off)</u>
2	NW-3	NW	7.0	Off
3	NNE-3	NNE	10.4	Off
4	ENE-3	ENE	7.6	Off
5	S-3	S	6.2	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-1	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	SW	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

Table A-3 (Continued)

WATTS BAR NUCLEAR PLANT  
THERMOLUMINESCENT DOSIMETER (TLD) LOCATIONS

<u>Map<sup>a</sup> Location Number</u>	<u>Station</u>	<u>Sector</u>	<u>Approximate Distance (miles)</u>	<u>Onsite (On)<sup>b</sup> or Offsite (Off)</u>
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

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

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

Figure A-1

### Environmental Radiological Sampling Locations

Within 1 Mile of the Plant

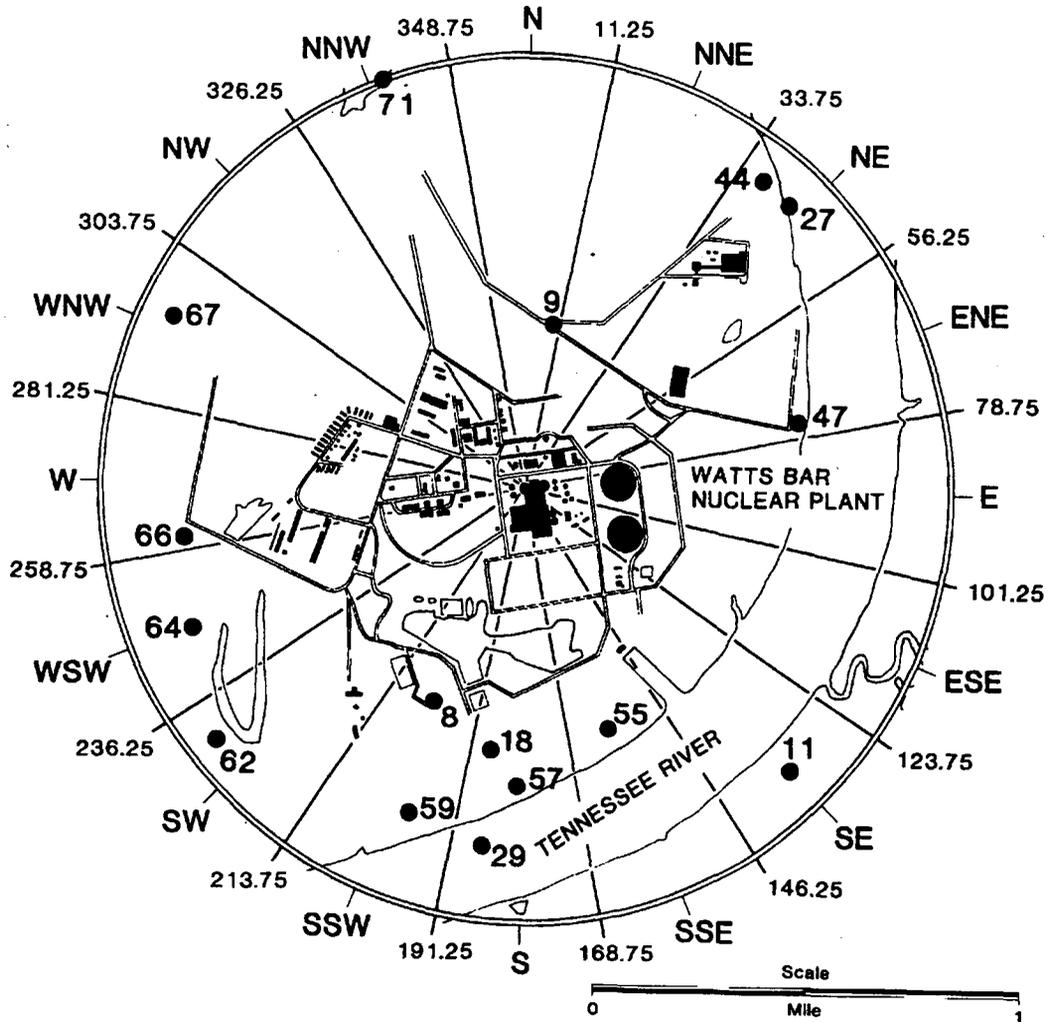


Figure A-2

# Environmental Radiological Sampling Locations

From 1 to 5 Miles From The Plant

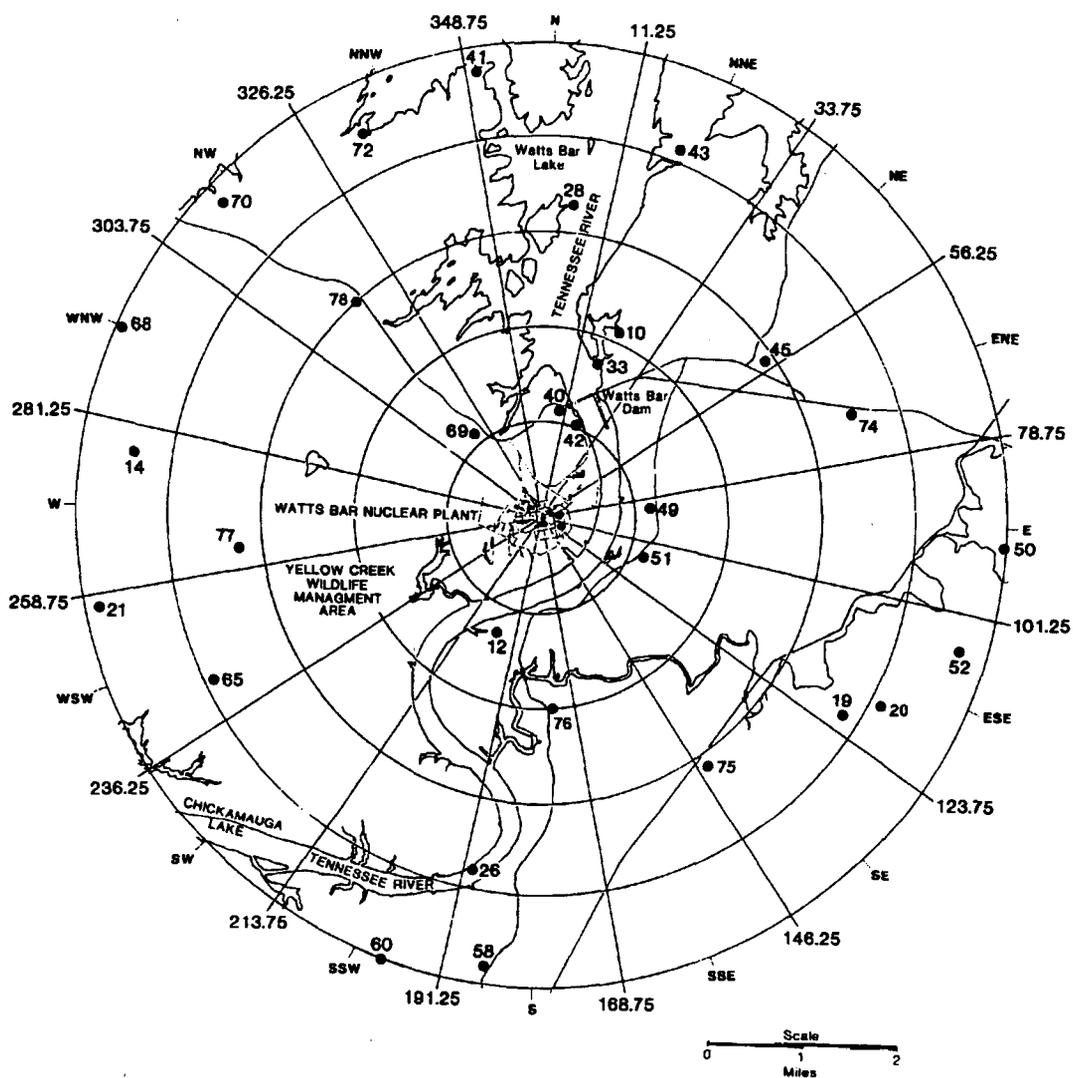
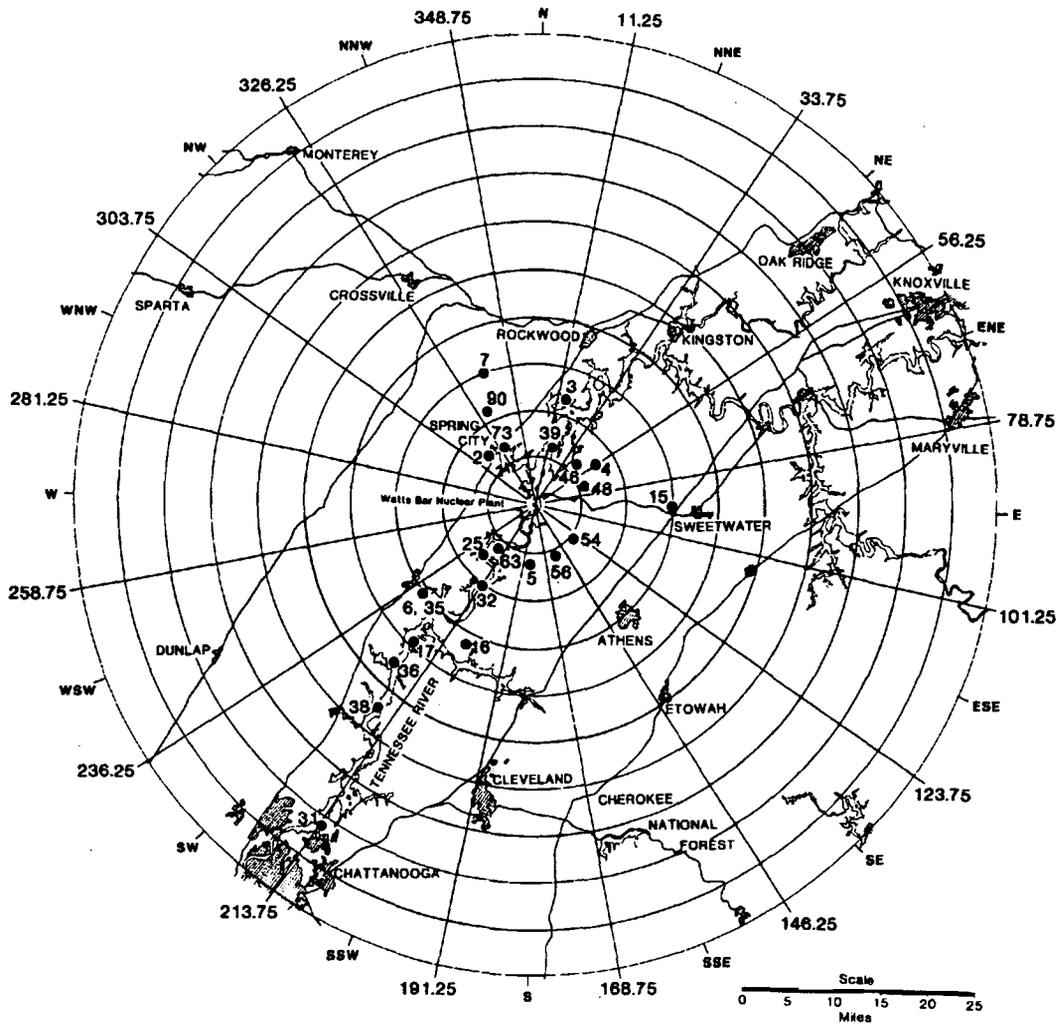


Figure A-3

# Environmental Radiological Sampling Locations

## Greater Than 5 Miles From the Plant



APPENDIX B

1994 PROGRAM MODIFICATIONS

Appendix B

1994 Program Modifications

Four modifications were made to the WBN Radiological Environmental Monitoring Program (REMP) in 1994. The farm located 4.8 miles WSW was added to the program for vegetation sampling in March. The frequency of the collection of vegetation samples was increased and the frequency for performing gamma spectral analyses on milk samples was increased. Analysis of well water samples for Sr-89 and Sr-90 content was begun in March.

The following table lists the changes made in the REMP in 1994.

Table B-1

## WATTS BAR NUCLEAR PLANT

Environmental Radiological Monitoring Program Modifications  
1994

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
3/1/94	Farm OH	4.8 Miles WSW	The farm was added to the monitoring program. Vegetation samples are collected monthly.
3/1/94	Farm L Farm Mu Farm N	1.3 miles SSW 3.7 miles ESE 4.1 miles ESE	The collection of vegetation samples was changed from quarterly to monthly. The frequency of the gamma spectral analysis for milk samples was changed from every four weeks to every two weeks.
3/29/94	Well #1 Farm L	0.6 miles S 1.3 miles SSW	The frequency of gamma spectral analyses was changed from quarterly to monthly and the analysis for Sr-89 and Sr-90 was added to the quarterly sample.

APPENDIX C

PROGRAM DEVIATIONS

Appendix C  
Program Deviations.

During the 1994 sampling period, a small number of samples were not collected and several analyses were not completed on some collected samples. These occurrences resulted in deviations from the scheduled program.

The missed samples and analyses were the result of equipment malfunction, sample unavailability, the scarcity of sample media, and the lack of sufficient quantities of sample for complete analysis. A list of missed samples, analyses, causes, and remedies to prevent recurrence, where applicable, are found in Table C-1.

Two samples failed to achieve the maximum lower limit of detection. A description of these deviations is presented in Table C-2.

Table C-1  
Missed Samples and Analyses

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
1/4/94 & 2/1/94	TRM 523.1	4.7 miles downstream	Two surface water samples were not collected as a result of a malfunctioning pump. The pump was replaced.
1/5/94 & 2/2/94	Farm C	16 miles SSW	Milk had already been picked up by the processor, therefore no sample was available. This is one of three control stations.
1/19/94	PM-3	10.4 miles NNE	The air particulate and charcoal samples were not collected because icy conditions on the road made the station inaccessible.
1/24/94	TRM 503.8	24.0 miles downstream	The fractions of two drinking water samples being analyzed for I-131 were lost during analyses. All other samples were performed on these samples.
1/25/94	TRM 473.0	5.48 miles downstream	
2/16/94, 4/27/94, 6/8/94, 10/25/94, 12/9/94	Farm S	19.5 miles SW	Milk had already been picked up by the processor, therefore, no sample was available. This is one of three control stations.
3/2/94	PM-3	10.4 miles NNE	The air particulate and charcoal samples were not collected because of a malfunction in the sampling equipment. The equipment was repaired and subsequent samples collected.
3/2/94	Farm N	4.1 miles ESE	Milk had already been picked up by the processor, therefore, no sample was available.

Table C-1 (Continued)  
Missed Samples and Analyses

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
3/15/94	RM-3	15.0 miles NNW	The composite air filter sample being analyzed for strontium was lost during analysis when no precipitate was formed.
5/6/94	TRM 527.4 TRM 496.4 TRM 518.0 TRM 532.1	0.4 miles downstream 31.3 miles downstream 9.8 miles downstream 4.3 miles upstream	Four plankton samples contained an excess amount of suspended solids which interfered with the analysis of the plankton to the extent that reliable results could not be obtained.
5/24/94	TRM 523.1	4.7 miles downstream	The surface water sample was not collected as a result of a broken sampling line. The line was replaced.
5/25/94	Farm N	4.1 miles ESE	The vegetation sample contained an excess of foreign material making it unsuitable for strontium analysis.
7/19/94	TRM 523.1	4.7 miles downstream	The surface water sample was not collected as a result of a malfunctioning pump. The pump was replaced and subsequent samples collected.
8/24/94	LM-4	0.9 miles SE	The gummed acetate (fallout) sample was lost during analysis.
8/30/94	LM-1 LM-2 PM-2	0.5 miles SSW 0.5 miles N 7.0 miles NW	The composite air filter samples being analyzed for strontium were lost during analysis as a result of impurities in the ion exchange resin. The resin was replaced and subsequent strontium analyses completed.

Table C-1 (Continued)  
Missed Samples and Analyses

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
8/30/94	Farm L	1.3 miles SSW	The analysis for I-131 could not be performed because the milk sample was spoiled. All other scheduled analyses were completed.
9/13/94 & 10/11/94	TRM 517.9	9.9 miles downstream	Two surface water samples were not because the sample line had been cut. Divers were engaged to replace the line and subsequent samples were collected.
9/27/94, 10/4/94 & 10/11/94	LM-2	0.5 miles N	Air particulate and charcoal filter samples were not collected as a result of the loss of power to the station during construction activities near the site. Power was restored in mid-October and subsequent samples collected.
10/3/94	TRM 527.4 TRM 496.4 TRM 518.0 TRM 532.1	0.4 miles downstream 31.3 miles downstream 9.8 miles downstream 4.3 miles upstream	Four plankton samples contained insufficient material for analysis.

Table C-2

## Missed Lower Limits of Detection

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
4/26/94	Well # 1	0.6 miles S	The maximum lower limit of detection for well water was not achieved because of the presence of an excessive amount of suspended solids in the sample. Maximum LLD-4.0 pCi/liter. Analysis LLD-4.7 pCi/liter.
10/11/94	Well # 1	0.6 miles S	The maximum lower limit of detection for well water was not achieved because of the presence of an excessive amount of suspended solids in the sample. Maximum LLD-4.0 pCi/liter. Analysis LLD-7.5 pCi/liter.

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. All 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. For solid samples, a specified amount of the sample is packed into a deep stainless steel planchet. Air particulate filters are counted directly in a shallow planchet.

The specific analysis of I-131 in milk, water, or vegetation samples 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 100 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 computer based multichannel analyzer system. Spectral data reduction is performed by the computer program HYPERMET.

The charcoal cartridges used to sample gaseous radioiodine were analyzed by gamma spectroscopy using a germanium detector system.

All of 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

Sensitive radiation detection devices can give a signal or reading even when no radioactivity is present in a sample being analyzed. This signal may come from trace amounts of radioactivity in the components of the device, from cosmic rays, from naturally occurring radon gas, or from electronic noise. Thus, there is always some sort of signal on these sensitive devices. The signal registered when no activity is present in the sample is called the background.

The point at which the signal is determined to represent radioactivity in the sample is called the critical level. This point is based on statistical analysis of the background readings from any particular device. However, any sample measured over and over in the same device will give different readings, some higher than others. The sample should have a well-defined average reading, but any individual reading will vary from that average. In order to determine the activity present in a sample that will produce a reading above the critical level, additional statistical analysis of the background readings is required. The hypothetical activity calculated from this analysis is called the lower limit of detection (LLD). A listing of typical LLD values that a laboratory publishes is a guide to the sensitivity of the analytical measurements performed by the laboratory.

Every time an activity is calculated for a sample, the background must be subtracted from the sample signal. For the very low levels encountered in environmental monitoring, the sample signals are often very close to the background. The measuring equipment is being used at the limit of its capability. For a sample with no measurable activity, which often happens, about half the time its signal should fall below the average machine background and half the time it should be above the background. If a signal above the background is present, the calculated activity is compared to the calculated LLD to determine if there is really activity present or if the number is an artifact of the way radioactivity is measured.

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 likely values for these factors have been evaluated for the various analyses performed in the environmental monitoring program. The nominal LLDs calculated from these values are presented in Table E-1. The maximum values for the lower limits of detection specified in NRC NUREG 0473 are shown in Table E-2.

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

Table E-1

Nominal LLD Values  
A. Radiochemical Procedures

	Air Filters (pCi/m <sup>3</sup> )	Water (pCi/L)	Milk (pCi/L)	Fish (pCi/g dry)	Wet Vegetation (pCi/kg wet)	Sediment and Soil (pCi/g dry)
Gross Beta	0.002	1.9				
Tritium		300				
Iodine-131		0.4	0.4		6.0	
Strontium-89	0.0011	5.0	2.0	0.09	31.0	1.6
Strontium-90	0.0004	2.0	2.0	0.03	12.0	0.4

Table E-1

Nominal LLD Values  
B. Gamma Analyses (GeLi)

	<u>Air Particulates pCi/m<sup>3</sup></u>	<u>Charcoal Filters pCi/m<sup>3</sup></u>	<u>Water and Milk pCi/L</u>	<u>Fish, Vegetation and Grain pCi/g. dry</u>	<u>Wet Vegetation pCi/kg. wet</u>	<u>Soil and Sediment pCi/g. dry</u>	<u>Clam Flesh pCi/g. dry</u>	<u>Foods, Tomatoes Potatoes, etc. pCi/kg. wet</u>	<u>Meat and Poultry pCi/kg. wet</u>
Ce-141	0.005	.02	10	.07	35	.10	.35	20	15
Ce-144	.01	.07	30	.15	115	.20	.85	60	50
Cr-51	.02	.15	45	.30	200	.35	2.40	95	75
I-131	.005	.03	10	.20	60	.25	1.70	20	25
Ru-103	.005	.02	5	.03	25	.03	.25	25	15
Ru-106	.02	.12	40	.15	190	.20	1.25	190	60
Cs-134	.005	.02	5	.03	30	.03	.14	10	10
Cs-137	.005	.02	5	.03	25	.03	.15	10	10
Zr-95	.005	.03	10	.05	45	.05	.45	45	20
Nb-95	.005	.02	5	.25	30	.035	.25	10	10
Co-58	.005	.02	5	.03	20	.03	.25	10	10
Mn-54	.005	.02	5	.03	20	.03	.20	10	10
Zn-65	.005	.03	10	.05	45	.05	.40	45	20
Co-60	.005	.02	5	.03	20	.03	.20	10	10
K-40	.04	.30	100	.40	400	.75	3.50	250	200
Ba-140	0.015	.07	25	.30	130	.30	2.40	50	50
La-140	0.01	.04	10	.20	50	.20	1.40	25	30
Fe-59	.005	.04	10	.08	40	.05	.45	25	20
Be-7	.02	.15	45	.25	200	.25	1.90	90	70
Pb-212	.005	.03	15	.04	40	.10	.30	40	20
Pb-214	.005	.07	20	.50	80	.15	.10	80	40
Bi-214	.005	.05	20	.10	55	.15	.50	40	25
Bi-212	.02	.20	50	.25	250	.45	2.00	130	90
Tl-208	.002	.02	10	.03	30	.06	.25	30	30
Ra-224						.75	3.00		
Ra-226						.15	.50		
Ac-228	.01	.07	20	.10	70	.25	.75	50	30
Pa-234m	0.50	3.20	800	4.0	4000	4.0	35.00	2500	2000

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/m<sup>3</sup></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	$1 \times 10^{-2}$	N.A.	N.A.	N.A.	N.A.
H-3	2000 <sup>a</sup>	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 <sup>b</sup>	$7 \times 10^{-2}$	N.A.	1	60	N.A.
Cs-134	15	$5 \times 10^{-2}$	130	15	60	150
Cs-137	18	$6 \times 10^{-2}$	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.

<sup>a</sup> If no drinking water pathway exists, a value of 3000pCi/L may be used.

<sup>b</sup> If no drinking water pathway exists, a value of 15 pCi/L 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 nonconformance and corrective action tracking system; systematic internal audits; a complete training and retraining system; 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 special samples along with routine samples.

Radiation detection devices are complex and 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, or trace amounts of radioactivity in the materials used to construct the detector. 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 same 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 the 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 analyst 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 by the quality control staff or by the analysts themselves. The analysts are told the radioactive content of the sample. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, the analysts have 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 analyst does not know they 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 the isotope is 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 analysts labeled as cross-check samples. This means that the quality control staff knows the radioactive content or "right answer" but the analysts do not. They are aware they are being tested. Such samples test the best performance of the laboratory by determining if the analysts 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. Internal cross-checks can also tell if there is a difference in performance between two analysts. Like blind spikes or analytical knowns, these samples can also be spiked with low levels of activity to test detection limits.

Control 1.3.3 of the ODCM requires that the laboratory participate in an approved Interlaboratory Comparison Program. A series of cross-checks is produced by the EPA in Las Vegas. These interlaboratory comparison samples or "EPA cross-checks" are considered to be the primary indicator of laboratory performance. They provide an independent check of the entire measurement process that cannot be easily provided by the laboratory itself. That is, unlike internally produced cross-checks, EPA cross-checks test the calibration

of the laboratory detection devices since different radioactive standards produced by individuals outside TVA are used in the cross-checks. The results of the analysis of these samples are reported back to EPA which then issues a report of all the results of all participants. These reports are examined very closely by laboratory supervisory and quality control personnel. They indicate how well the laboratory is doing compared to others across the nation. Like internal cross-checks, the EPA cross-checks provide information to the laboratory about the precision and accuracy of the radioanalytical work it does.

The results of TVA's participation in the EPA Interlaboratory Comparison Program are presented in Table F-1 and Figure F-1. For 1994, all but one EPA cross-check sample concentrations measured by TVA's laboratory were within  $\pm 3$ -sigma of the EPA reported values.

TVA splits certain environmental samples with laboratories operated by the States of Alabama and Tennessee and the EPA Eastern Environmental Radiation Facility 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.

All the 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 help or improvement. The end result is a measurement process that provides accurate 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 OBTAINED IN INTERLABORATORY COMPARISON PROGRAM

## A. Air Filter (pCi/Filter)

Date	Gross Alpha		Gross Beta		Strontium-90		Cesium-137	
	EPA Value (±3 sigma)	TVA Avg.						
8/94	35±46	31	56±17	58	20±9	18	15±9	15

## B. Radiochemical Analysis of Water (pCi/L)

Date	Gross Beta		Strontium-89		Strontium-90		Tritium		Iodine-131		Plutonium-239	
	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.
1/94	62±17	66	25±9	21	15±9	15						
2/94												
3/94												
4/94 <sup>a</sup>			20±9	19	14±9	14						
7/94	10± 9	20 <sup>b</sup>	30±9	28	20±9	18						
8/94												
10/94 <sup>a</sup>			25±9	22	15±9	15						
10/94	23± 9	20										
							4936±856	4874	119±21	121	28±5	27
							9951±1723	9501				
									79±14	74		

Table F-1

## RESULTS OBTAINED IN INTERLABORATORY COMPARISON PROGRAM (Continued)

## C. Gamma-Spectral Analysis of Water (pCi/L)

Date	<u>Barium-133</u>		<u>Cobalt-60</u>		<u>Zinc-65</u>		<u>Ruthenium-106</u>		<u>Cesium-134</u>		<u>Cesium-137</u>	
	EPA Value (±3 sigma)	TVA Avg.										
4/94 <sup>a</sup>			20±9	20					34±9	33	29±9	30
6/94	98±17	89	50±9	50	134±23	134	252±43	227	40±9	36	49±9	52
10/94 <sup>a</sup>			40±9	39					20±9	20	39±9	41
11/94	73±12	73	59±9	58	100±17	100			24±9	22	49±9	51

## D. Milk (pCi/L)

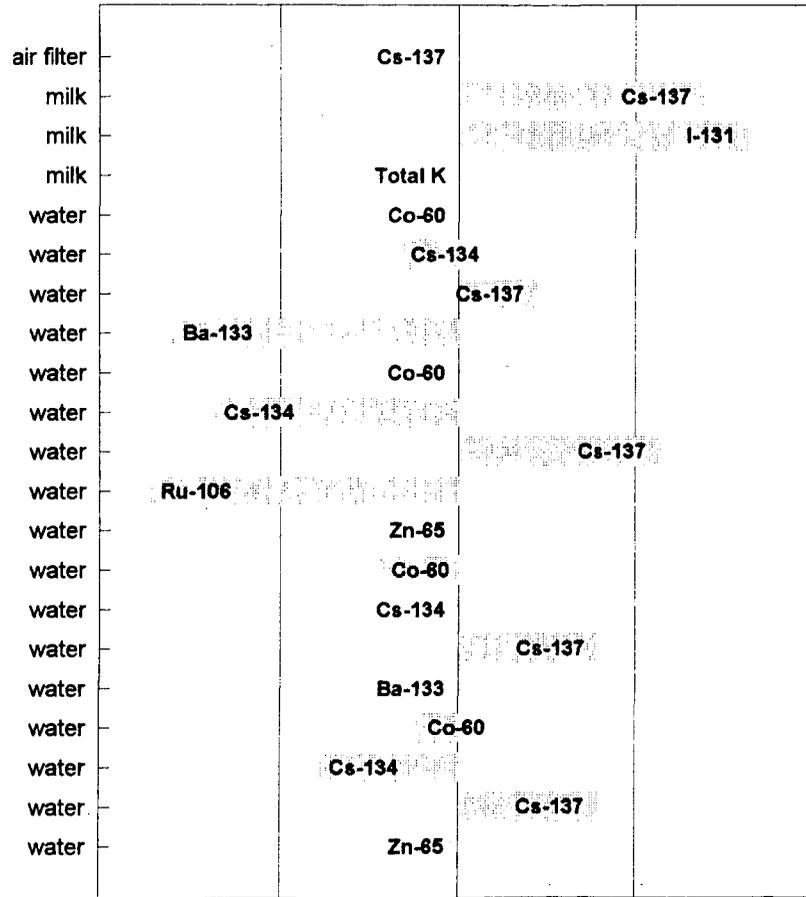
Date	<u>Strontium-89</u>		<u>Strontium-90</u>		<u>Iodine-131</u>		<u>Cesium-137</u>		<u>Potassium-40<sup>c</sup></u>	
	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.						
9/94	25±9	26	15±9	17	75±14	80	59±9	63	1715±149	1713

- a. Performance Evaluation Intercomparison Study.  
 b. The Grand Average of non-outlier participants indicates that the Performance Evaluation Standard had a postative bias for Gross Beta. If the Grand Average of 14.91 pCi/liter were used for the known, TVA's results would be 1.65 sigma from the known.  
 c. Units are milligrams of total potassium per liter rather than picocuries of K-40 per liter.

### EPA Crosscheck Summary for 1994 gamma spectroscopy methods

(found - given) / EPA Sigma

-2      -1      0      1      2



### EPA Crosscheck Summary for 1994 analytical chemistry methods

(found - given) / EPA sigma

-2      0      2      4

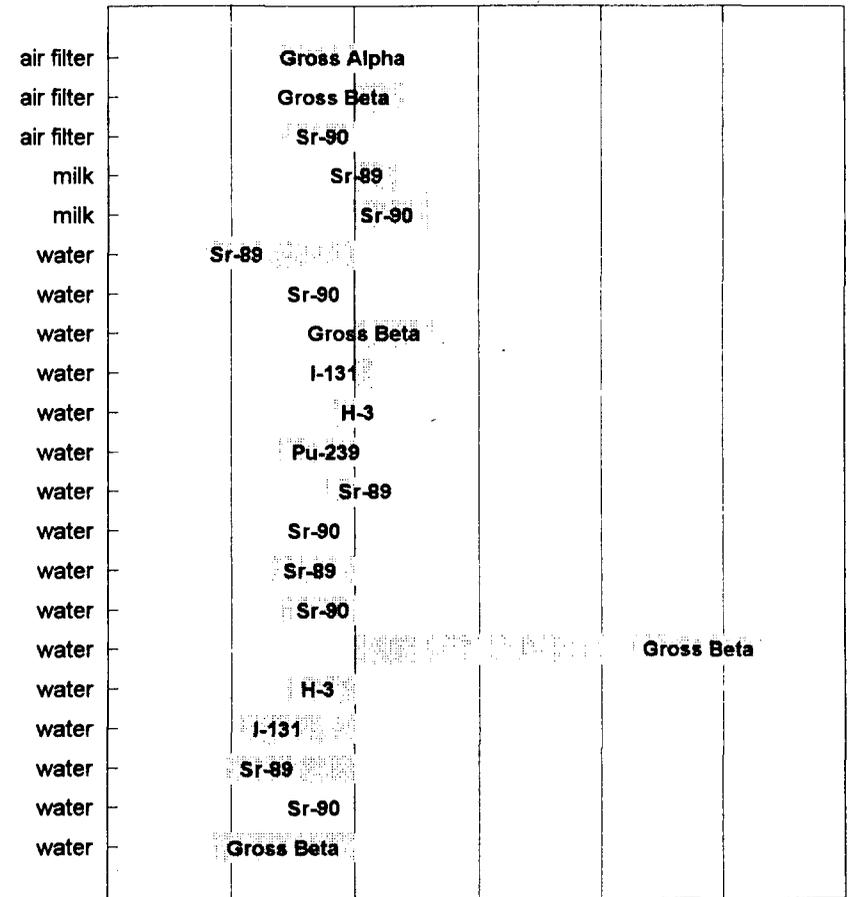


Figure F-1

Laboratory objective:  $abs[(found - given)/EPA\ sigma] < 3$

APPENDIX G

LAND USE SURVEY

## APPENDIX G

### Land Use Survey

A land use survey is conducted periodically 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 is usually 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 breathing air (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 plant is operating and that 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 1994 three changes were made in the codes used to calculate potential doses offsite. These changes include: (1) The last five years of meteorological data were added to the meteorological data file; (2) factors ranging from 1 to 3 were added to account for the impact of the terrain on the estimated doses; and (3) the most recent source terms from the latest version of the Final Safety Analysis Report (FSAR) were used. In general the source terms from this report are higher than those previously used.

As a result of the changes noted above in the calculational codes, relative doses calculated for 1994 for air submersion were significantly higher than those projected for 1993 while doses calculated in 1994 from ingestion of home-grown foods were lower than those calculated in 1993. The doses projected from the consumption of milk were also significantly higher in 1994. 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.

Tables G-1, G-2, and G-3 show the comparative calculated doses for 1993 and 1994.

Table G-1

Watts Bar Nuclear Plant  
Relative Projected Annual Air Submersion Dose to the Nearest Resident  
Within 5 Miles of Plant<sup>a</sup>

mrem/year/reactor

Sector	1993 Survey		1994 Survey	
	Approximate Distance (Miles)	Annual Dose	Approximate Distance (Miles)	Annual Dose
N	1.3	0.09	1.3	0.84
NNE	2.3	0.07	2.3	0.77
NE	2.1	0.07	2.1	0.57
ENE	1.8	0.10	1.8	0.57
E	2.0	0.08	2.0	0.46
ESE	2.9	0.05	2.9	0.24
SE	0.8	0.41	0.9	2.00
SSE	1.0	0.16	1.0	1.21
S	1.0	0.13	1.0	1.45
SSW	1.3	0.09	1.3	1.12
SW	2.6	0.03	2.7	0.28
WSW	1.3	0.12	1.3	0.89
W	2.0	0.03	1.8	0.19
WNW	1.0	0.08	0.9	0.52
NW	1.9	0.02	1.9	0.10
NNW	2.7	0.01	2.7	0.08

a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.

Table G-2

Watts Bar Nuclear Plant  
Relative Projected Annual Ingestion Dose to Child's Critical  
Organ from Ingestion of Home-Grown Foods  
Nearest Garden Within 5 Miles of Plant<sup>a</sup>

mrem/year/reactor

<u>Sector</u>	<u>1993 Survey</u>		<u>1994 Survey</u>	
	<u>Distance (Miles)</u>	<u>Annual Dose (Bone)</u>	<u>Distance (Miles)</u>	<u>Annual Dose (Bone)</u>
N	2.8	1.00	2.8	0.48
NNE	2.5	2.03	2.5	0.71
NE	2.3	2.31	2.4	0.79
ENE	1.8	3.50	1.8	0.81
E	2.0	2.89	2.0	0.67
ESE	2.9	1.81	2.9	0.61
SE	2.1	2.99	4.7	0.33
SSE	1.0	5.01	1.0	0.88
S	1.1	3.67	1.1	0.94
SSW	1.3	3.00	1.3	0.89
SW	b	b	5.0	0.49
WSW	3.8	0.76	1.7	0.72
W	2.0	1.00	2.0	0.36
WNW	1.0	2.44	1.0	0.97
NW	2.0	0.56	2.0	0.32
NNW	2.8	0.52	2.8	0.29

- a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
- b. Garden not identified in this sector.

Table G-3

Watts Bar Nuclear Plant  
Relative Projected Annual Dose to Reactor Thyroid from Ingestion of Milk<sup>a</sup>  
(Nearest Milk-Producing Animal Within 5 Miles of Plant)

mrem/year/reactor

Location	Sector	Approximate Distance (Miles)	Annual Dose		X/Q s/m <sup>3</sup>
			1993	1994	
<u>Cows</u>					
Farm W	E	5.5	c	0.47	4.59 E -7
Farm Mu <sup>b</sup>	ESE	3.6	0.06	0.54	1.22 E -6
Farm N	ESE	4.1	0.06	0.49	9.74 E -7
Farm Hu	ESE	4.7	0.04	0.41	7.49 E -7
Farm L <sup>b</sup>	SSW	1.3	0.64	5.12	2.15 E -6
Farm Ho <sup>d</sup>	SSW	1.5	0.14	1.55	2.72 E -6
Farm S	WNW/NW	4.9	0.004	0.26	8.46 E -8
<u>Goats</u>					
Farm OH	WSW	4.8	0.05	0.68	6.32 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. Milk-producing animals not identified in this sector.
  - d. Owner unwilling to provide samples or information. The dose calculated assumes consumption of the milk by an adult and a feeding factor of 70 %. If milk from this location were to be consumed by teens, children or infants, the estimated doses would be 2.16, 4.17 and 7.90 mrem/year, respectively.

APPENDIX H

DATA TABLES

Table H-1

DIRECT RADIATION LEVELS

Average External Gamma Radiation Levels at Various Distances from  
Watts Bar Nuclear Plant for Each Quarter - 1994  
mrem/Quarter<sup>a</sup>

<u>Distance Miles</u>	<u>Average External Gamma Radiation Levels<sup>b</sup></u>			
	<u>1st Quarter</u> (Dec 93-Feb 94)	<u>2nd Quarter</u> (Mar-May 94)	<u>3rd Quarter</u> (Jun-Aug 94)	<u>4th Quarter</u> (Sep-Nov 94)
0-1	16.8 ± 2.5	16.9 ± 2.9	15.8 ± 2.4	16.8 ± 2.7
1-2	15.8 ± 1.3	17.8 ± 4.3	14.8 ± 1.3	15.8 ± 1.7
2-4	14.8 ± 1.3	14.1 ± 1.3	13.7 ± 1.1	14.5 ± 1.4
4-6	15.2 ± 1.9	14.9 ± 1.9	14.2 ± 2.0	14.8 ± 1.7
>6	14.4 ± 1.9	14.5 ± 1.8	13.7 ± 1.9	14.2 ± 2.1
Average, 0-2 miles (Onsite)	16.4 ± 2.2	17.2 ± 3.5	15.4 ± 2.1	16.4 ± 2.4
Average >2 miles (Offsite)	14.9 ± 1.8	14.6 ± 1.8	14.0 ± 1.9	14.6 ± 1.8

- a. Data normalized to one quarter (2190 hours).  
b. Averages of the individual measurements in the set ±1 standard deviation of the set.

Table H-2

DIRECT RADIATION LEVELS

## B. Individual Stations

Map Location Number	NRC Station No.*	Direction, Degrees	Approx. Distance, Miles	<u>Environmental Radiation Levels</u> mrem/Quarter				Annual Exposure, mrem/Year
				1st Quarter Dec. 1993- Feb. 1994	2nd Quarter March - May 1994	3rd Quarter June - Aug. 1994	4th Quarter Sept. - Nov. 1994	
40	N-1	16	10	17.2	24.9	16.6	17.4	76.1
41	N-2	15	350	15.6	16.9	14.2	15.6	62.3
42	NNE-1		21	16.7	23.3	15.0	17.0	72.0
10	NNE-1A		22	15.0	17.1	13.9	14.8	60.8
43	NNE-2		20	14.5	14.2	12.4	14.0	55.1
3	NNE-3		17	14.2	14.6	13.2	13.7	55.7
44	NE-1		39	19.1	20.0	18.1	19.0	76.2
45	NE-2		54	15.5	14.7	13.9	15.4	59.5
46	NE-3		47	13.2	15.2	12.2	12.6	53.2
47	ENE-1		74	16.7	19.2	15.8	16.9	68.6
48	ENE-2		69	14.6	13.7	13.6	14.9	56.8
74	ENE-2A		69	12.9	11.8	11.6	12.4	48.7
4	ENE-3		56	13.5	12.8	12.7	13.5	52.5
49	E-1	20	85	15.2	13.9	14.1	15.1	58.3
50	E-2		92	15.1	14.8	14.6	15.9	60.4
15	E-3		90	18.1	16.9	16.9	18.5	70.4
51	ESE-1	21	109	13.1	12.6	12.7	12.7	51.1
52	ESE-2		106	18.6	17.9	18.7	**	73.6
11	SE-1A	22	138	14.0	13.6	13.1	13.6	54.3
54	SE-2		128	13.9	12.6	12.5	12.8	51.8
75	SE-2A		144	14.6	13.3	13.7	14.2	55.8
55	SSE-1		156	16.6	15.0	14.4	16.0	62.0
56	SSE-2		156	15.4	14.8	14.5	15.4	60.1

\* Locations with TVA and NRC stations co-located.

\*\* Sum of available quarterly data normalized to 1 year for the annual exposure.

Table H-2

DIRECT RADIATION LEVELS

## B. Individual Stations

Map Location Number	NRC Station No.*	Direction, Degrees	Approx. Distance, Miles	<u>Environmental Radiation Levels</u> mrem/Quarter				Annual Exposure, mrem/Year	
				1st Quarter Dec. 1993- Feb. 1994	2nd Quarter March - May 1994	3rd Quarter June - Aug. 1994	4th Quarter Sept. - Nov. 1994		
				57	S-1	182	0.7		14.8
58	S-2	185	4.8	12.7	11.9	11.2	11.6	47.4	
76	S-2A	177	2.0	16.8	15.7	14.8	16.6	63.9	
5	S-3	185	6.2	14.8	14.3	13.5	14.3	56.9	
59	SSW-1	199	0.8	19.8	19.1	18.6	19.6	77.1	
12	SSW-2	200	1.3	16.4	16.0	14.8	16.2	63.4	
60	SSW-3	199	5.0	13.6	15.8	12.7	13.9	56.0	
62	SW-1	226	0.8	17.4	18.0	17.1	17.8	70.3	
63	SW-2	220	5.3	13.7	13.2	12.9	14.1	53.9	
6	SW-3	225	15.0	13.2	13.2	12.5	13.1	52.0	
64	WSW-1	255	0.9	14.2	14.1	13.2	14.6	56.1	
65	WSW-2	9	247	4.0	16.5	15.8	15.1	16.5	63.9
66	W-1	270	0.9	15.8	15.6	14.9	16.2	62.5	
14	W-2	277	4.8	12.9	12.5	12.0	13.0	50.4	
77	W-2A	268	3.2	15.2	15.3	14.7	15.0	60.2	
67	WNW-1	294	0.9	22.0	22.7	20.9	22.9	88.5	
68	WNW-2	292	4.9	19.9	17.8	17.4	18.4	73.5	
69	NW-1	320	1.1	16.9	19.8	16.6	17.8	71.1	
70	NW-2	313	4.7	16.5	16.8	16.7	16.2	66.2	
78	NW-2A	321	3.0	13.7	13.8	13.2	13.4	54.1	
2	NW-3	317	7.0	17.5	18.1	17.4	17.3	70.3	
71	NNW-1	1	340	1.0	14.5	14.2	14.2	14.5	57.4
72	NNW-2	333	4.5	15.3	15.3	15.2	15.6	61.4	
73	NNW-3	14	329	7.0	12.4	12.4	12.0	12.2	49.0
7	NNW-4	337	15.0	13.0	13.0	12.8	12.7	51.5	

\* Locations with TVA and NRC stations co-located.

\*\* Sum of available quarterly data normalized to 1 year for the annual exposure.

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: 1994

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	525	2.00E-03	1.97E-02( 419/ 419) PM-4 TEN MILE 8.26E-03- 3.93E-02 7.8 M. NE/ENE	2.01E-02( 53/ 53) 8.26E-03- 3.92E-02	1.93E-02( 106/ 106) 8.39E-03- 3.60E-02	
GAMMA SCAN (GELI)	140	2.00E-02	9.16E-02( 110/ 112) LM2 N. WBSP GATE 6.10E-02- 1.40E-01 0.5 MILES N	9.73E-02( 14/ 14) 7.12E-02- 1.40E-01	9.43E-02( 28/ 28) 6.56E-02- 1.33E-01	
BE-7		5.00E-03	9.30E-03( 13/ 112) PM3 CEDINE BIBLE 5.00E-03- 2.12E-02 CAMP 11.5 M. NNE	1.58E-02( 2/ 14) 1.04E-02- 2.12E-02	9.85E-03( 2/ 28) 6.90E-03- 1.28E-02	
B1-214		5.00E-03	1.09E-02( 11/ 112) LM-3 WB 5.60E-03- 2.84E-02 2.1 MILES NNE	1.44E-02( 3/ 14) 6.70E-03- 2.84E-02	8.40E-03( 2/ 28) 8.00E-03- 8.80E-03	
PB-214						
SR 89	36	1.10E-03	29 VALUES < LLD		7 VALUES < LLD	
SR 90	36	4.00E-04	29 VALUES < LLD		7 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).

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: 1994

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)						
	525					
K-40	3.00E-01	3.97E-01( 2/ 419) 3.79E-01- 4.14E-01	LM-4 WB 0.9 MILES SE	4.14E-01( 1/ 53) 4.14E-01- 4.14E-01	106 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).

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

RADIOACTIVITY IN GUM PAPER  
 MCI/KM2 - 37000000.00 BQ/KM2

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

DOCKET NO.: 50-390,391  
 REPORTING PERIOD: 1994

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	129	1.00E-02	1.35E-01( 103/ 103) LM2 N. WBSP GATE 4.60E-02- 3.36E-01 0.5 MILES N	1.91E-01( 13/ 13) 1.04E-01- 3.36E-01	1.24E-01( 26/ 26) 7.15E-02- 2.77E-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).

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

RADIOACTIVITY IN RAINWATER  
 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: 1994

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)						
BE-7	130	4.50E+01	5.88E+01( 25/ 104) LM-4 WB 4.52E+01- 1.81E+02 0.9 MILES SE	8.83E+01( 4/ 13) 4.57E+01- 1.81E+02	5.75E+01( 5/ 26) 4.51E+01- 7.75E+01	
SR 89	130	5.00E+00	104 VALUES < LLD		26 VALUES < LLD	
SR 90	130	2.00E+00	104 VALUES < LLD		26 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).

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: 1994

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						
160	4.00E-01	89 VALUES < LLD			71 VALUES < LLD	
GAMMA SCAN (GELI)						
155						
BI-214	2.00E+01	8.00E+01( 7/ 84)	LAYMAN FARM	8.00E+01( 7/ 24)	7.80E+01( 10/ 71)	
		3.23E+01- 1.18E+02	1.3 MILES SW	3.23E+01- 1.18E+02	2.51E+01- 1.57E+02	
CS-137	5.00E+00	5.71E+00( 1/ 84)	OWEN HENDERSON FARM	5.71E+00( 1/ 13)	71 VALUES < LLD	
		5.71E+00- 5.71E+00	4.8 MILES WSW	5.71E+00- 5.71E+00		
K-40	1.00E+02	1.39E+03( 84/ 84)	OWEN HENDERSON FARM	1.74E+03( 13/ 13)	1.31E+03( 71/ 71)	
		8.81E+02- 1.94E+03	4.8 MILES WSW	1.55E+03- 1.94E+03	6.36E+02- 1.60E+03	
PB-214	2.00E+01	7.79E+01( 7/ 84)	LAYMAN FARM	7.79E+01( 7/ 24)	9.18E+01( 8/ 71)	
		3.81E+01- 1.20E+02	1.3 MILES SW	3.81E+01- 1.20E+02	3.16E+01- 1.48E+02	
SR 89						
79	2.00E+00	44 VALUES < LLD	LAYMAN FARM	13 VALUES < LLD	2.04E+00( 1/ 35)	
			1.3 MILES SW		2.04E+00- 2.04E+00	
SR 90						
79	2.00E+00	4.60E+00( 11/ 44)	OWEN HENDERSON FARM	6.46E+00( 6/ 6)	3.54E+00( 2/ 35)	
		2.17E+00- 8.21E+00	4.8 MILES WSW	4.13E+00- 8.21E+00	2.21E+00- 4.87E+00	

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 VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)

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

DOCKET NO.: 50-390,391  
 REPORTING PERIOD: 1994

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	ANNUAL MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
IODINE-131	35	6.00E+00	22 VALUES < LLD		13 VALUES < LLD	
GAMMA SCAN (GELI)	43					
BE-7	2.00E+02	1.04E+03( 27/ 30) 2.63E+02- 4.08E+03	MULLINS FARM 3.7 M. ESE	1.96E+03( 3/ 4) 7.61E+02- 4.08E+03	1.82E+03( 11/ 13) 2.53E+02- 6.96E+03	
K-40	4.00E+02	5.29E+03( 30/ 30) 1.37E+03- 1.21E+04	NORTON FARM 4.1 MILES ESE	6.52E+03( 4/ 4) 4.47E+03- 1.21E+04	5.30E+03( 13/ 13) 2.76E+03- 7.66E+03	
SR 89	19	3.10E+01	15 VALUES < LLD		4 VALUES < LLD	
SR 90	19	1.20E+01	1.94E+01( 4/ 15) 1.22E+01- 2.54E+01	OWEN HENDERSON FARM 4.8 MILES WSW	2.20E+01( 2/ 4) 1.85E+01- 2.54E+01	1.25E+01( 1/ 4) 1.25E+01- 1.25E+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).

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: 1994

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)							
	11						
AC-228	2.50E-01	1.10E+00( 8/ 8)	7.71E-01- 1.49E+00	PM-4 TEN MILE 7.8 M. NE/ENE	1.49E+00( 1/ 1)	9.92E-01( 3/ 3)	
BE-7	2.50E-01	2.84E-01( 2/ 8)	2.78E-01- 2.90E-01	LM1 ENV DATA STA 0.5 MILES SSW	2.90E-01( 1/ 1)	2.96E-01( 1/ 3)	
BI-212	4.50E-01	1.16E+00( 8/ 8)	8.05E-01- 1.77E+00	PM-4 TEN MILE 7.8 M. NE/ENE	1.77E+00( 1/ 1)	1.22E+00( 2/ 3)	
BI-214	1.50E-01	7.78E-01( 8/ 8)	6.44E-01- 8.79E-01	LM-3 WB 2.1 MILES NNE	8.79E-01( 1/ 1)	8.35E-01( 3/ 3)	
CS-137	3.00E-02	2.83E-01( 7/ 8)	9.30E-02- 6.03E-01	LM-3 WB 2.1 MILES NNE	6.03E-01( 1/ 1)	2.28E-01( 2/ 3)	
K-40	7.50E-01	1.21E+01( 8/ 8)	3.22E+00- 2.98E+01	LM-4 WB 0.9 MILES SE	2.98E+01( 1/ 1)	5.03E+00( 3/ 3)	
PB-212	1.00E-01	1.06E+00( 8/ 8)	7.19E-01- 1.48E+00	PM-4 TEN MILE 7.8 M. NE/ENE	1.48E+00( 1/ 1)	9.18E-01( 3/ 3)	
PB-214	1.50E-01	8.55E-01( 8/ 8)	7.15E-01- 9.64E-01	LM-3 WB 2.1 MILES NNE	9.64E-01( 1/ 1)	8.90E-01( 3/ 3)	
RA-224	7.50E-01	1.19E+00( 2/ 8)	1.15E+00- 1.22E+00	LM-4 WB 0.9 MILES SE	1.22E+00( 1/ 1)	1.22E+00( 2/ 3)	
RA-226	1.50E-01	7.78E-01( 8/ 8)	6.44E-01- 8.79E-01	LM-3 WB 2.1 MILES NNE	8.79E-01( 1/ 1)	8.35E-01( 3/ 3)	
TL-208	6.00E-02	3.60E-01( 8/ 8)	2.48E-01- 5.08E-01	LM-4 WB 0.9 MILES SE	5.08E-01( 1/ 1)	3.26E-01( 3/ 3)	
SR 89							
	11	1.60E+00	8 VALUES < LLD			3 VALUES < LLD	
SR 90							
	11	4.00E-01	8 VALUES < LLD			3 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).

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: 1994

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)						
K-40	2.50E+02	9.08E+02( 1/ 1) 9.08E+02- 9.08E+02	OWEN HENDERSON FARM 4.8 MILES WSW	9.08E+02( 1/ 1) 9.08E+02- 9.08E+02	5.67E+02( 1/ 1) 5.67E+02- 5.67E+02	2

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 BEEF  
 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: 1994

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	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.00E+02	2.45E+03( 1/ 1) 2.45E+03- 2.45E+03	NORTON FARM 4.1 MILES ESE	2.45E+03( 1/ 1) 2.45E+03- 2.45E+03	2.48E+03( 1/ 1) 2.48E+03- 2.48E+03	2

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 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: 1994

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)						
K-40	2.50E+02	1.30E+03( 1/ 1) 1.30E+03- 1.30E+03	2.0 MILES S	1.30E+03( 1/ 1) 1.30E+03- 1.30E+03	1.39E+03( 1/ 1) 1.39E+03- 1.39E+03	2

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 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: 1994

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)						
K-40	2.50E+02	2.07E+03( 1/ 1) 2.07E+03- 2.07E+03	OWEN HENDERSON FARM 4.8 MILES WSW	2.07E+03( 1/ 1) 2.07E+03- 2.07E+03	2.14E+03( 1/ 1) 2.14E+03- 2.14E+03	2

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 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: 1994

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)						
K-40	2.50E+02	2.04E+03( 1/ 1) 2.04E+03- 2.04E+03	OWEN HENDERSON FARM 4.8 MILES WSW	2.04E+03( 1/ 1) 2.04E+03- 2.04E+03	1.14E+03( 1/ 1) 1.14E+03- 1.14E+03	2

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 POTATOES  
 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: 1994

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	ANNUAL MEAN 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	2.93E+03( 1/ 1) 2.93E+03- 2.93E+03	OWEN HENDERSON FARM 4.8 MILES WSW	2.93E+03( 1/ 1) 2.93E+03- 2.93E+03	2.51E+03( 2/ 2) 2.06E+03- 2.97E+03	3

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 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: 1994

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)						
K-40	2.50E+02	2.25E+03( 1/ 1) 2.25E+03- 2.25E+03	OWEN HENDERSON FARM 4.8 MILES WSW	2.25E+03( 1/ 1) 2.25E+03- 2.25E+03	2.21E+03( 1/ 1) 2.21E+03- 2.21E+03	2

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 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: 1994

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	ANNUAL MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA	33	1.90E+00	3.10E+00( 18/ 20) TRM 523.1	3.40E+00( 8/ 9)	2.59E+00( 11/ 13)	
GAMMA SCAN (GELI)	33	1.96E+00- 5.13E+00	4.7 MILES DOWNSTREA	1.96E+00- 5.13E+00	1.96E+00- 3.49E+00	
SR 89	12	5.00E+00	20 VALUES < LLD		13 VALUES < LLD	
SR 90	12	5.00E+00	8 VALUES < LLD		4 VALUES < LLD	
TRITIUM	12	2.00E+00	8 VALUES < LLD		4 VALUES < LLD	
	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).

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: 1994

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	65	1.90E+00	2.62E+00( 15/ 26) RM-2 DAYTON TN 1.99E+00- 3.57E+00 17.75 MILES NNE	2.64E+00( 9/ 13) 1.99E+00- 3.57E+00	2.53E+00( 12/ 39) 1.91E+00- 3.49E+00	
IODINE-131	36	4.00E-01	23 VALUES < LLD		13 VALUES < LLD	
GAMMA SCAN (GELI)	65	2.00E+01	26 VALUES < LLD	CF INDUSTRIES TRM 473.0	3.08E+01( 9/ 39) 2.21E+01- 4.27E+01	
BI-214		2.00E+01	26 VALUES < LLD	RM-2 DAYTON TN 17.75 MILES NNE	2.77E+01( 10/ 39) 2.01E+01- 3.51E+01	
PB-214		2.00E+01	26 VALUES < LLD			
SR 89	20	5.00E+00	8 VALUES < LLD		12 VALUES < LLD	
SR 90	20	2.00E+00	8 VALUES < LLD		12 VALUES < LLD	
TRITIUM	20	3.00E+02	8 VALUES < LLD		12 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).

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: 1994

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						
	20	1.90E+00	8.18E+00( 10/ 10) WBN WELL #1 4.95E+00- 1.20E+01 ONSITE S	8.18E+00( 10/ 10) 4.95E+00- 1.20E+01	10 VALUES < LLD	
GAMMA SCAN (GELI)						
	26	2.00E+01	1.94E+02( 1/ 13) WBN WELL #1 1.94E+02- 1.94E+02 ONSITE S	1.94E+02( 1/ 13) 1.94E+02- 1.94E+02	2.39E+02( 12/ 13) 1.56E+02- 4.74E+02	
BI-214		2.00E+01	2.02E+02( 1/ 13) WBN WELL #1 2.02E+02- 2.02E+02 ONSITE S	2.02E+02( 1/ 13) 2.02E+02- 2.02E+02	2.42E+02( 12/ 13) 1.62E+02- 4.81E+02	
PB-214						
SR 89	6	5.00E+00	3 VALUES < LLD		3 VALUES < LLD	
SR 90	6	2.00E+00	3 VALUES < LLD		3 VALUES < LLD	
TRITIUM	8	3.00E+02	4 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).

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

RADIOACTIVITY IN CHANNEL CATFISH FLESH  
 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: 1994

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 (GEL1)						
	6					
CS-137	3.00E-02	4.42E-02( 1/ 4)	CHICKAMAUGA RES	4.42E-02( 1/ 2)	2 VALUES < LLD	
		4.42E-02- 4.42E-02	TRM 471-530	4.42E-02- 4.42E-02		
K-40	4.00E-01	1.13E+01( 4/ 4)	CHICKAMAUGA RES	1.21E+01( 2/ 2)	1.52E+01( 2/ 2)	
		9.42E+00- 1.48E+01	TRM 471-530	9.42E+00- 1.48E+01	1.31E+01- 1.73E+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).

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

RADIOACTIVITY IN CRAPPIE FLESH  
 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: 1994

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)						
	6					
CS-137	3.00E-02	7.23E-02( 3/ 4)	CHICKAMAUGA RES	7.86E-02( 2/ 2)	9.20E-02( 2/ 2)	
		5.98E-02- 8.91E-02	TRM 471-530	6.80E-02- 8.91E-02	8.27E-02- 1.01E-01	
K-40	4.00E-01	1.74E+01( 4/ 4)	NICKAJACK RES	1.82E+01( 2/ 2)	1.75E+01( 2/ 2)	
		1.59E+01- 2.02E+01	TRM 425-471	1.62E+01- 2.02E+01	1.69E+01- 1.81E+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).

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

RADIOACTIVITY IN SMALLMOUTH BUFFALO FLESH  
 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: 1994

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)						
	6					
CS-137	3.00E-02	4.36E-02( 2/ 4)	NICKAJACK RES	4.81E-02( 1/ 2)	4.39E-02( 2/ 2)	
		3.91E-02- 4.81E-02	TRM 425-471	4.81E-02- 4.81E-02	4.15E-02- 4.64E-02	
K-40	4.00E-01	1.02E+01( 4/ 4)	CHICKAMAUGA RES	1.07E+01( 2/ 2)	1.27E+01( 2/ 2)	
		6.72E+00- 1.25E+01	TRM 471-530	1.01E+01- 1.13E+01	9.77E+00- 1.57E+01	
SR 89	6					
		4 VALUES < LLD			2 VALUES < LLD	
SR 90	6					
		4 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).

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

RADIOACTIVITY IN SMALLMOUTH BUFFALO WHOLE  
 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: 1994

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	ANNUAL MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
CS-137	6	3.00E-02	3.17E-02( 1/ 4) NICKAJACK RES	3.17E-02( 1/ 2)	2 VALUES < LLD	
			3.17E-02- 3.17E-02 TRM 425-471	3.17E-02- 3.17E-02		
K-40		4.00E-01	6.09E+00( 4/ 4) NICKAJACK RES	6.11E+00( 2/ 2)	5.69E+00( 2/ 2)	
SR 89			5.38E+00- 6.84E+00 TRM 425-471	5.38E+00- 6.84E+00	4.59E+00- 6.79E+00	
	6	9.00E-02	1.85E-01( 2/ 4) CHICKAMAUGA RES	2.13E-01( 1/ 2)	2 VALUES < LLD	
SR 90			1.56E-01- 2.13E-01 TRM 471-530	2.13E-01- 2.13E-01		
	6	3.00E-02	8.66E-02( 4/ 4) CHICKAMAUGA RES	8.76E-02( 2/ 2)	1.25E-01( 2/ 2)	
			6.52E-02- 1.10E-01 TRM 471-530	6.52E-02- 1.10E-01	1.18E-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).

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

RADIOACTIVITY IN 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: 1994

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	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2		CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)								
	8							
AC-228	2.50E-01	4.12E+00( 6/ 6)	TRM 527.4	9.98E+00( 2/ 2)	8.76E-01( 2/ 2)			
BE-7	2.50E-01	1.07E+00- 1.75E+01	0.4 MILES DOWNSTREA	2.49E+00- 1.75E+01	6.94E-01- 1.06E+00			
BI-212	4.50E-01	7.04E-01( 4/ 6)	TRM 496.50	8.31E-01( 2/ 2)	6.04E-01( 1/ 2)			
BI-214	1.50E-01	3.14E-01- 1.35E+00	TRM 527.4	1.02E+01( 2/ 2)	8.97E-01( 2/ 2)			
CS-137	3.00E-02	4.16E+00( 6/ 6)	TRM 527.4	1.00E+00- 1.79E+01	7.24E-01- 1.07E+00			
K-40	7.50E-01	2.12E+00( 6/ 6)	TRM 527.4	4.84E+00( 2/ 2)	5.35E-01( 2/ 2)			
PB-212	1.00E-01	6.86E-01- 8.33E+00	0.4 MILES DOWNSTREA	1.35E+00- 8.33E+00	4.60E-01- 6.11E-01			
PB-214	1.50E-01	2.95E-01( 5/ 6)	TRM 496.50	5.80E-01( 2/ 2)	2.54E-01( 2/ 2)			
RA-224	7.50E-01	6.70E-02- 8.12E-01	TRM 518.0	3.49E-01- 8.12E-01	1.96E-01- 3.11E-01			
RA-226	1.50E-01	1.43E+01( 6/ 6)	TRM 527.4	1.67E+01( 2/ 2)	6.67E+00( 2/ 2)			
TL-208	6.00E-02	1.24E+01- 1.74E+01	TRM 527.4	1.60E+01- 1.74E+01	3.44E+00- 9.90E+00			
SR 89	8	3.79E+00( 6/ 6)	TRM 527.4	9.22E+00( 2/ 2)	7.90E-01( 2/ 2)			
SR 90	8	9.45E-01- 1.62E+01	0.4 MILES DOWNSTREA	2.28E+00- 1.62E+01	6.52E-01- 9.28E-01			
		2.29E+00( 6/ 6)	TRM 527.4	5.25E+00( 2/ 2)	6.41E-01( 2/ 2)			
		7.49E-01- 9.02E+00	0.4 MILES DOWNSTREA	1.49E+00- 9.02E+00	4.95E-01- 7.86E-01			
		4.53E+00( 4/ 6)	TRM 527.4	1.43E+01( 1/ 2)	1.01E+00( 1/ 2)			
		1.02E+00- 1.43E+01	0.4 MILES DOWNSTREA	1.43E+01- 1.43E+01	1.01E+00- 1.01E+00			
		2.12E+00( 6/ 6)	TRM 527.4	4.84E+00( 2/ 2)	5.35E-01( 2/ 2)			
		6.86E-01- 8.33E+00	0.4 MILES DOWNSTREA	1.35E+00- 8.33E+00	4.60E-01- 6.11E-01			
		1.32E+00( 6/ 6)	TRM 527.4	3.23E+00( 2/ 2)	2.68E-01( 2/ 2)			
		3.12E-01- 5.68E+00	0.4 MILES DOWNSTREA	7.78E-01- 5.68E+00	2.11E-01- 3.25E-01			
		1.60E+00	6 VALUES < LLD		2 VALUES < LLD			
		4.00E-01	7.19E-01( 1/ 6) TRM 496.50	7.19E-01( 1/ 2)	5.62E-01( 1/ 2)			
			7.19E-01- 7.19E-01	7.19E-01- 7.19E-01	5.62E-01- 5.62E-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).

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: 1994

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)						
AC-228	2.50E-01	1.36E+00( 2/ 2) 1.29E+00- 1.44E+00	COTTON PORT MARINA TRM 513	1.36E+00( 2/ 2) 1.29E+00- 1.44E+00	9.68E-01( 2/ 2) 3.94E-01- 1.54E+00	
BE-7	2.50E-01	1.55E+00( 1/ 2) 1.55E+00- 1.55E+00	COTTON PORT MARINA TRM 513	1.55E+00( 1/ 2) 1.55E+00- 1.55E+00	2 VALUES < LLD	
BI-212	4.50E-01	1.34E+00( 2/ 2) 1.23E+00- 1.44E+00	COTTON PORT MARINA TRM 513	1.34E+00( 2/ 2) 1.23E+00- 1.44E+00	1.61E+00( 1/ 2) 1.61E+00- 1.61E+00	
BI-214	1.50E-01	6.55E-01( 2/ 2) 6.33E-01- 6.77E-01	COTTON PORT MARINA TRM 513	6.55E-01( 2/ 2) 6.33E-01- 6.77E-01	5.97E-01( 2/ 2) 2.86E-01- 9.09E-01	
CS-137	3.00E-02	7.98E-02( 2/ 2) 3.71E-02- 1.23E-01	COTTON PORT MARINA TRM 513	7.98E-02( 2/ 2) 3.71E-02- 1.23E-01	2 VALUES < LLD	
K-40	7.50E-01	1.91E+01( 2/ 2) 1.85E+01- 1.97E+01	COTTON PORT MARINA TRM 513	1.91E+01( 2/ 2) 1.85E+01- 1.97E+01	6.21E+00( 1/ 2) 6.21E+00- 6.21E+00	
PB-212	1.00E-01	1.26E+00( 2/ 2) 1.14E+00- 1.37E+00	COTTON PORT MARINA TRM 513	1.26E+00( 2/ 2) 1.14E+00- 1.37E+00	8.69E-01( 2/ 2) 3.52E-01- 1.39E+00	
PB-214	1.50E-01	7.18E-01( 2/ 2) 6.77E-01- 7.59E-01	COTTON PORT MARINA TRM 513	7.18E-01( 2/ 2) 6.77E-01- 7.59E-01	6.79E-01( 2/ 2) 3.13E-01- 1.04E+00	
RA-224	7.50E-01	1.35E+00( 2/ 2) 1.26E+00- 1.45E+00	COTTON PORT MARINA TRM 513	1.35E+00( 2/ 2) 1.26E+00- 1.45E+00	1.56E+00( 1/ 2) 1.56E+00- 1.56E+00	
RA-226	1.50E-01	6.55E-01( 2/ 2) 6.33E-01- 6.77E-01	COTTON PORT MARINA TRM 513	6.55E-01( 2/ 2) 6.33E-01- 6.77E-01	5.97E-01( 2/ 2) 2.86E-01- 9.09E-01	
TL-208	6.00E-02	4.33E-01( 2/ 2) 3.99E-01- 4.68E-01	COTTON PORT MARINA TRM 513	4.33E-01( 2/ 2) 3.99E-01- 4.68E-01	2.87E-01( 2/ 2) 1.06E-01- 4.68E-01	
SR 89						
	4	1.60E+00	2 VALUES < LLD		2 VALUES < LLD	
SR 90						
	4	4.00E-01	2 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).

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

RADIOACTIVITY IN CLAM FLESH  
 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: 1994

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	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
	8					
BI-214	5.00E-01	5.57E-01( 1/ 6)	TRM 527.4	5.57E-01( 1/ 2)	1.11E+00( 1/ 2)	
		5.57E-01- 5.57E-01	0.4 MILES DOWNSTREA	5.57E-01- 5.57E-01	1.11E+00- 1.11E+00	
PB-214	1.00E-01	4.38E-01( 4/ 6)	TRM 527.4	5.85E-01( 1/ 2)	1.09E+00( 1/ 2)	
		2.76E-01- 5.85E-01	0.4 MILES DOWNSTREA	5.85E-01- 5.85E-01	1.09E+00- 1.09E+00	

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).

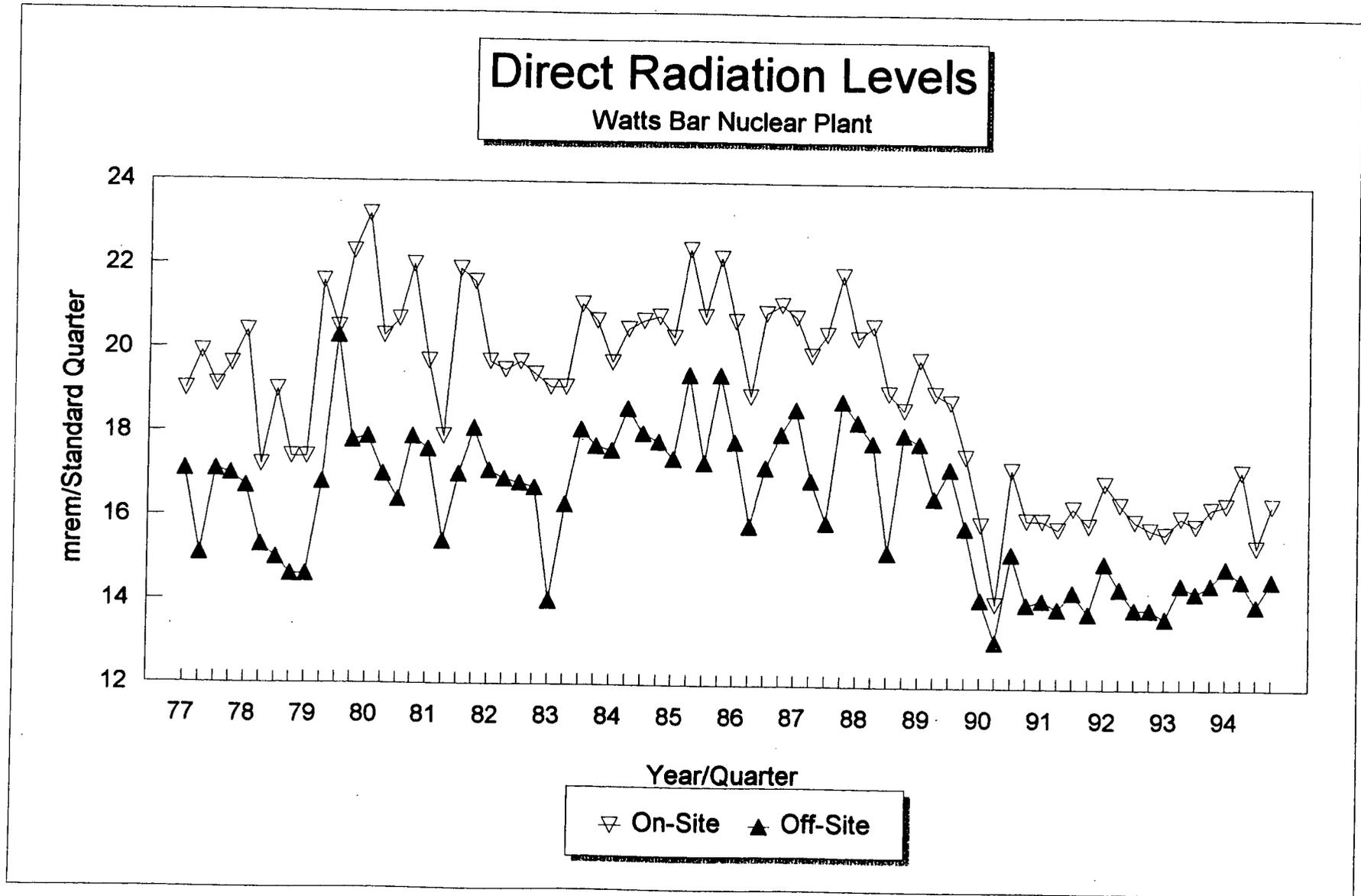
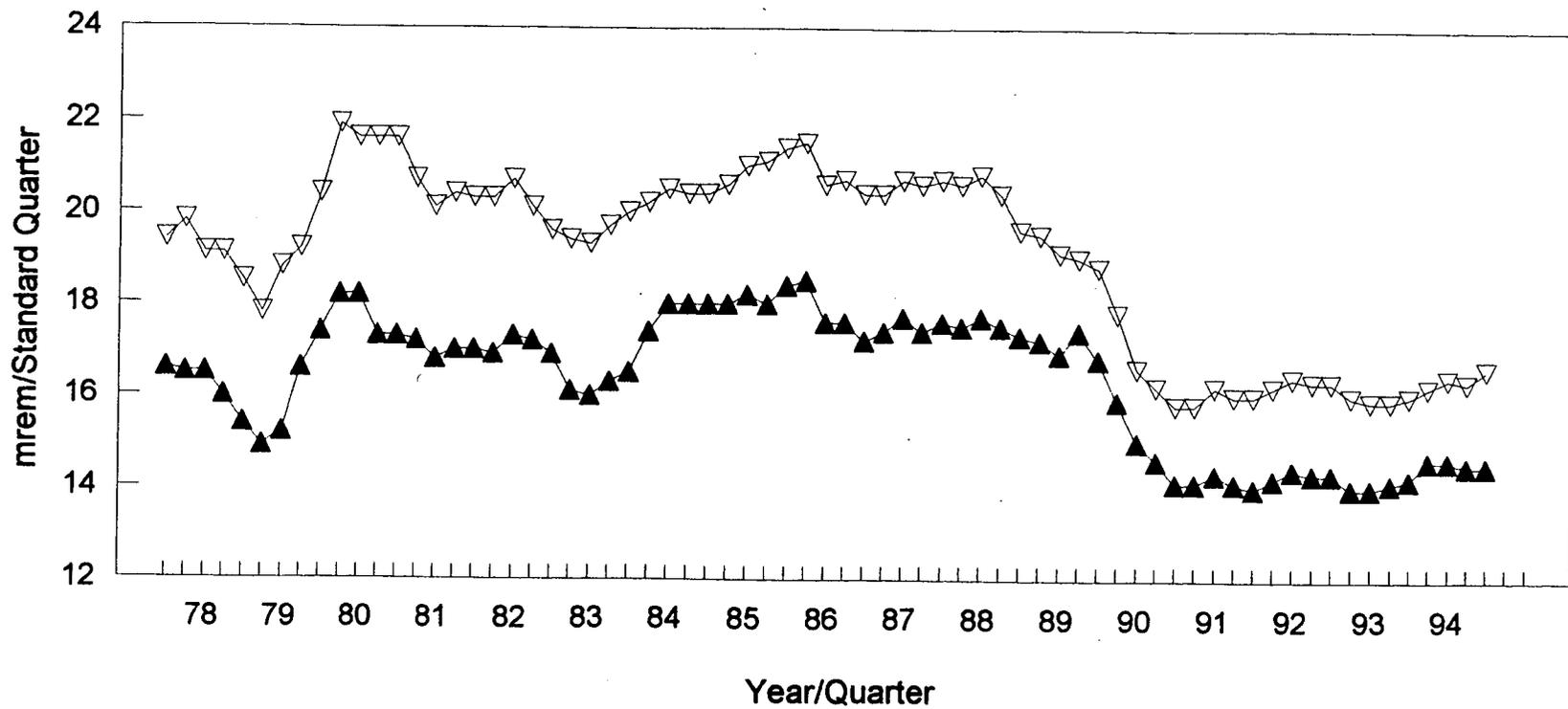


Figure H-1

# Direct Radiation Levels

Watts Bar Nuclear Plant - Four Quarter Moving Average

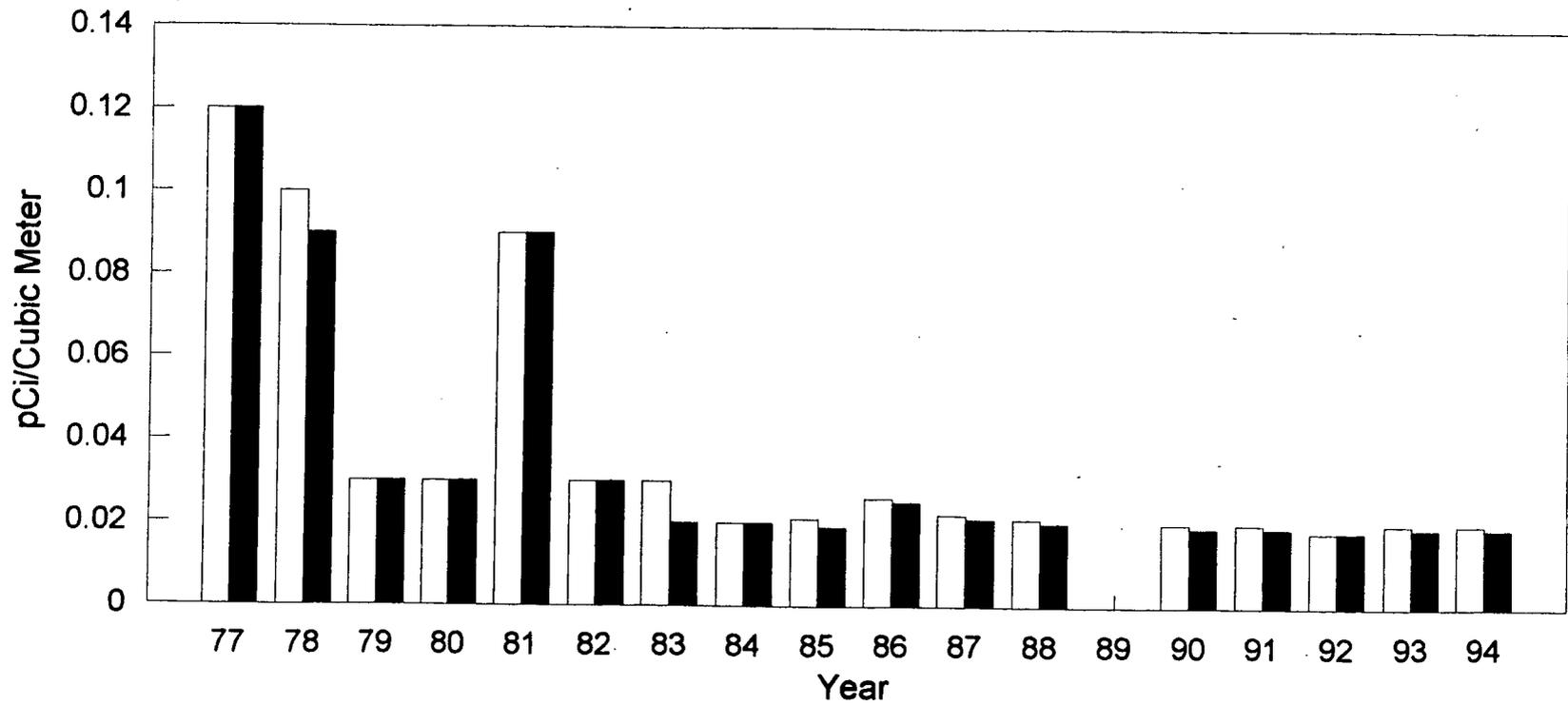


▽ On-Site    ▲ Off-Site

Figure H-2

# Annual Average Gross Beta Activity

Air Filters, pCi/Cubic Meter



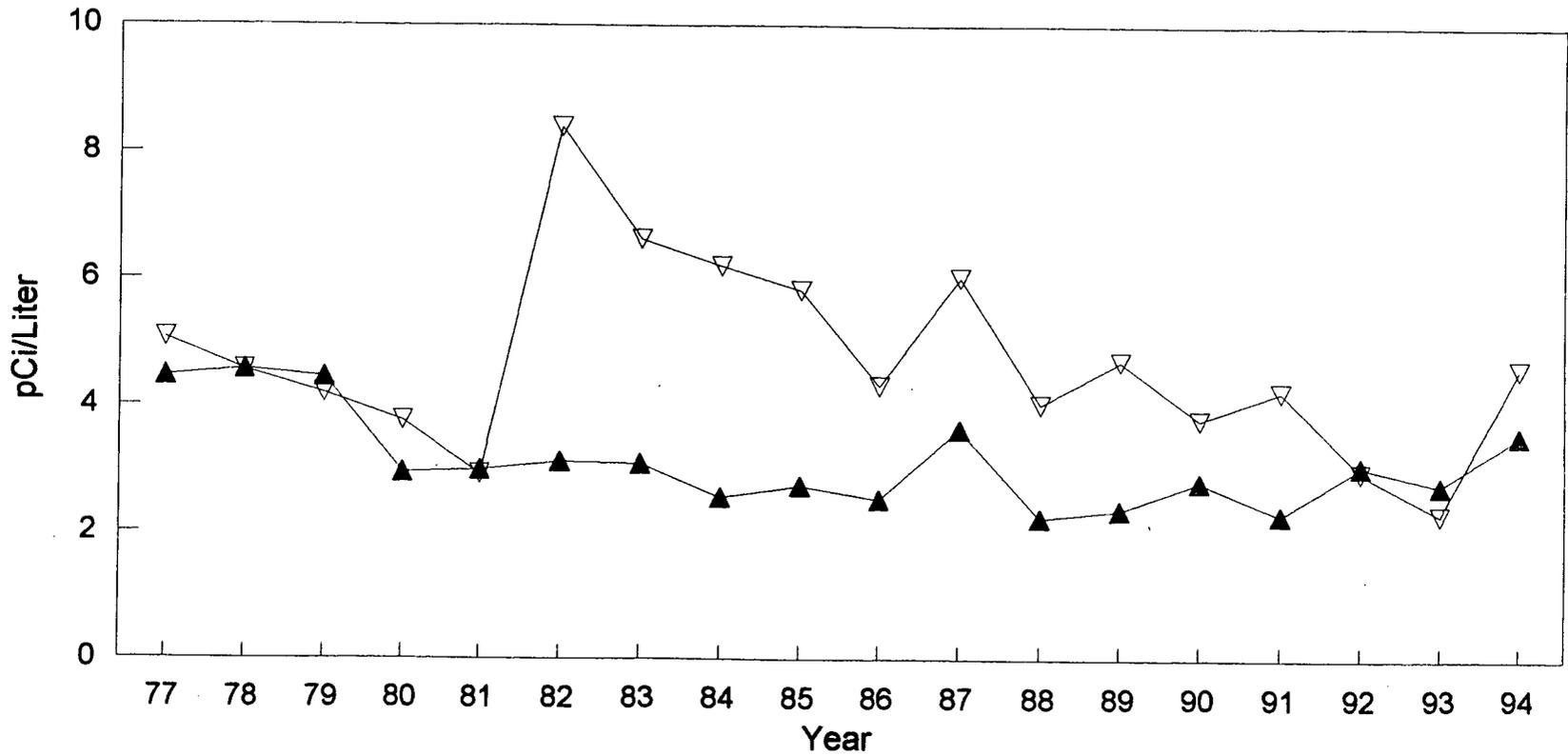
No measurements made in 1989.

□ Indicator    ■ Control

Watts Bar Nuclear Plant

Figure H-3

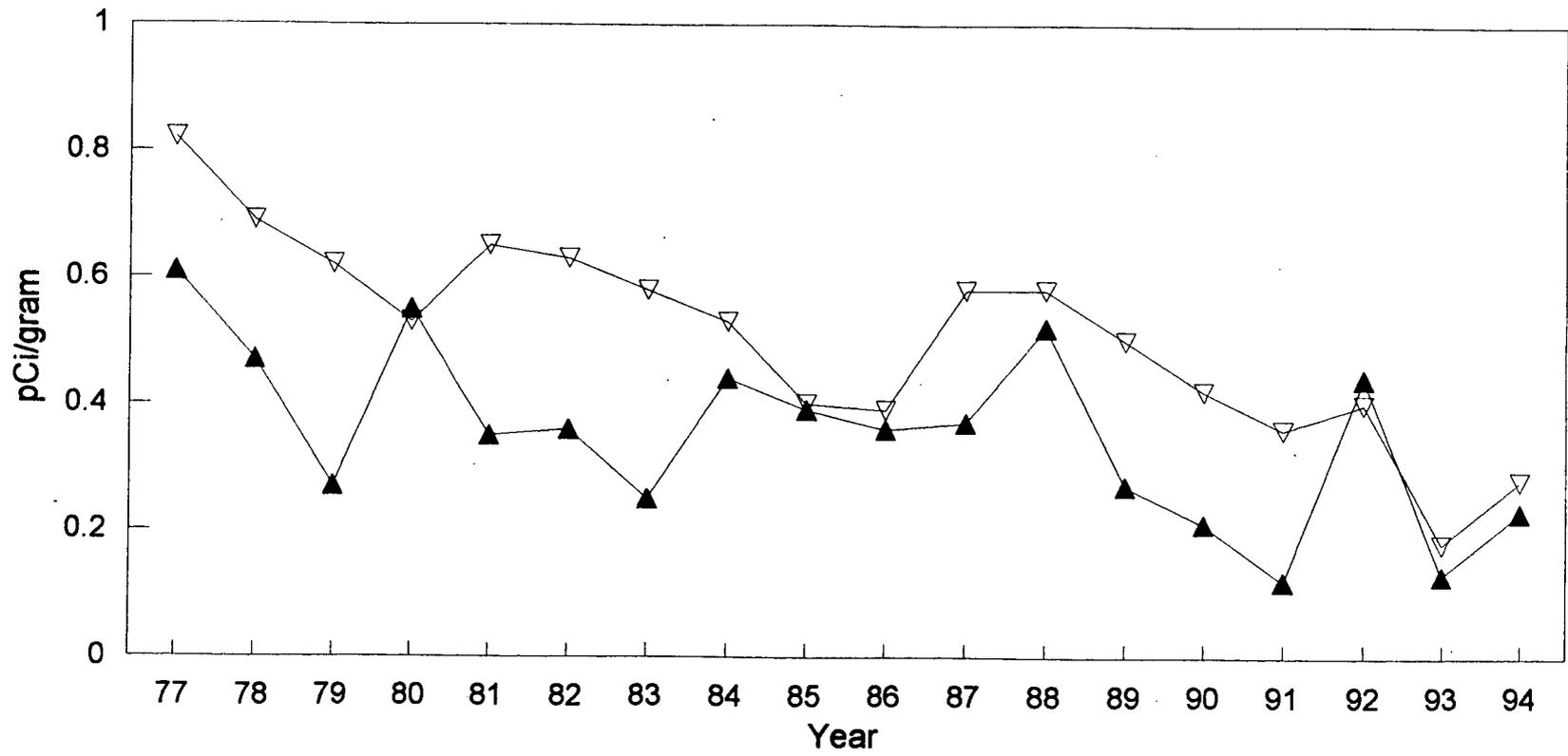
### Annual Average: Sr-90 in Milk



▽ Indicator ▲ Control

Watts Bar Nuclear Plant

### Annual Average: Cs-137 in Soil



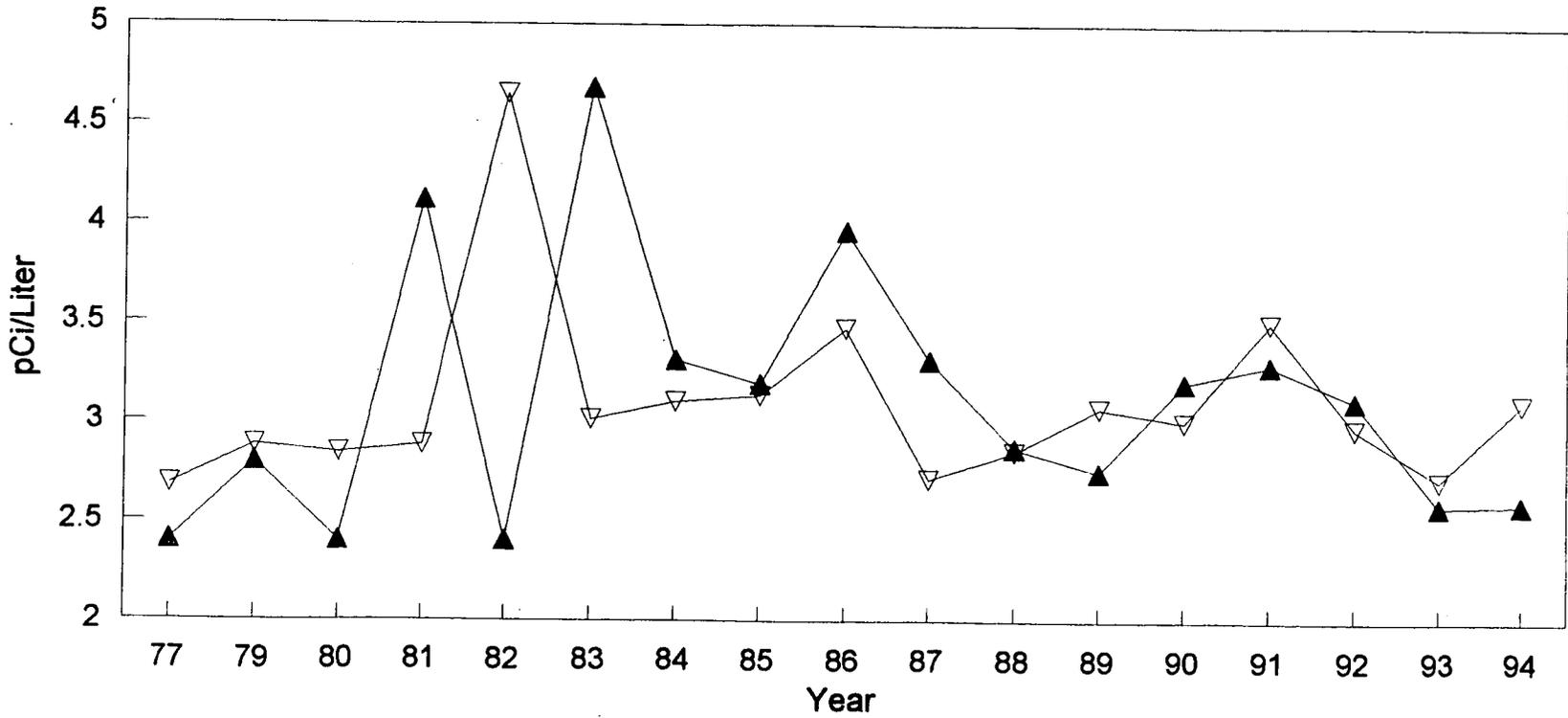
▽ Indicator ▲ Control

Watts Bar Nuclear Plant

Figure H-5

# Annual Average Gross Beta Activity

Surface Water, pCi/Liter



No gross beta measurements made in 1978.

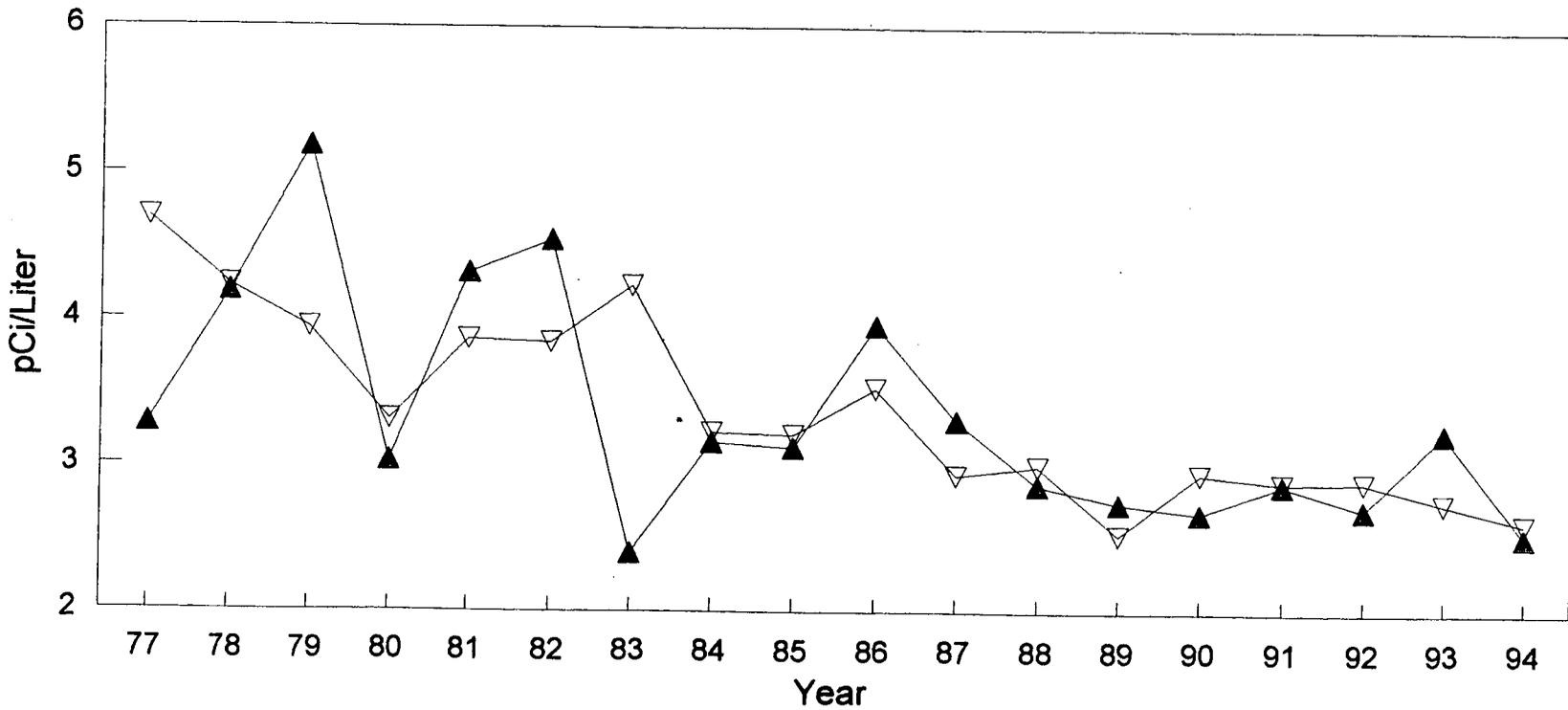
▽ Indicator ▲ Control

Watts Bar Nuclear Plant

Values measured at the control station in 1977, 1980 and 1982 were below the LLD (2.4 pCi/Liter).

# Annual Average Gross Beta Activity

Drinking Water, pCi/Liter



▽ Indicator ▲ Control

Watts Bar Nuclear Plant

Value measured at the control station in 1983 was below the LLD of 2.4 pCi/Liter.

Figure H-7

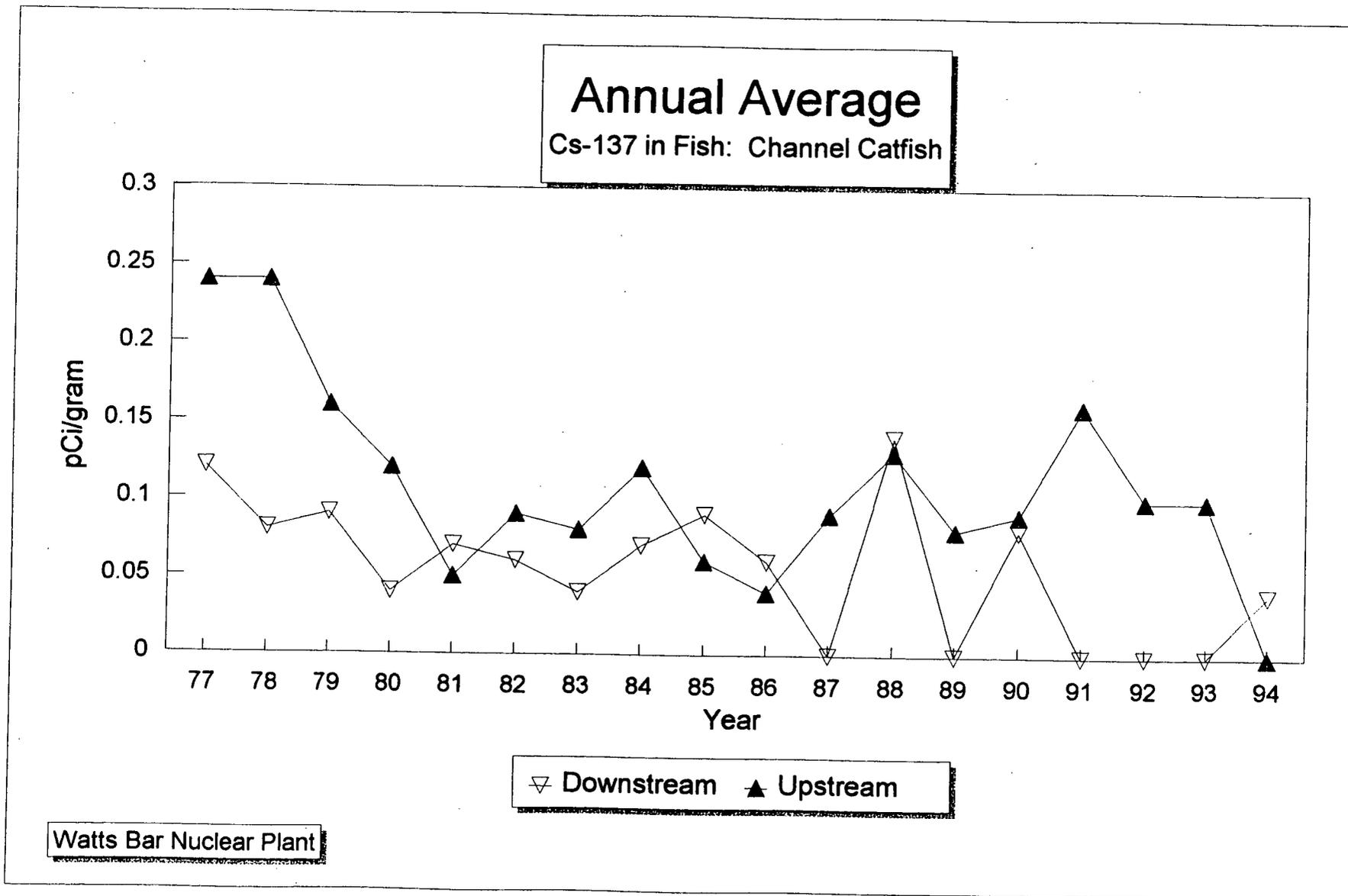


Figure H-8

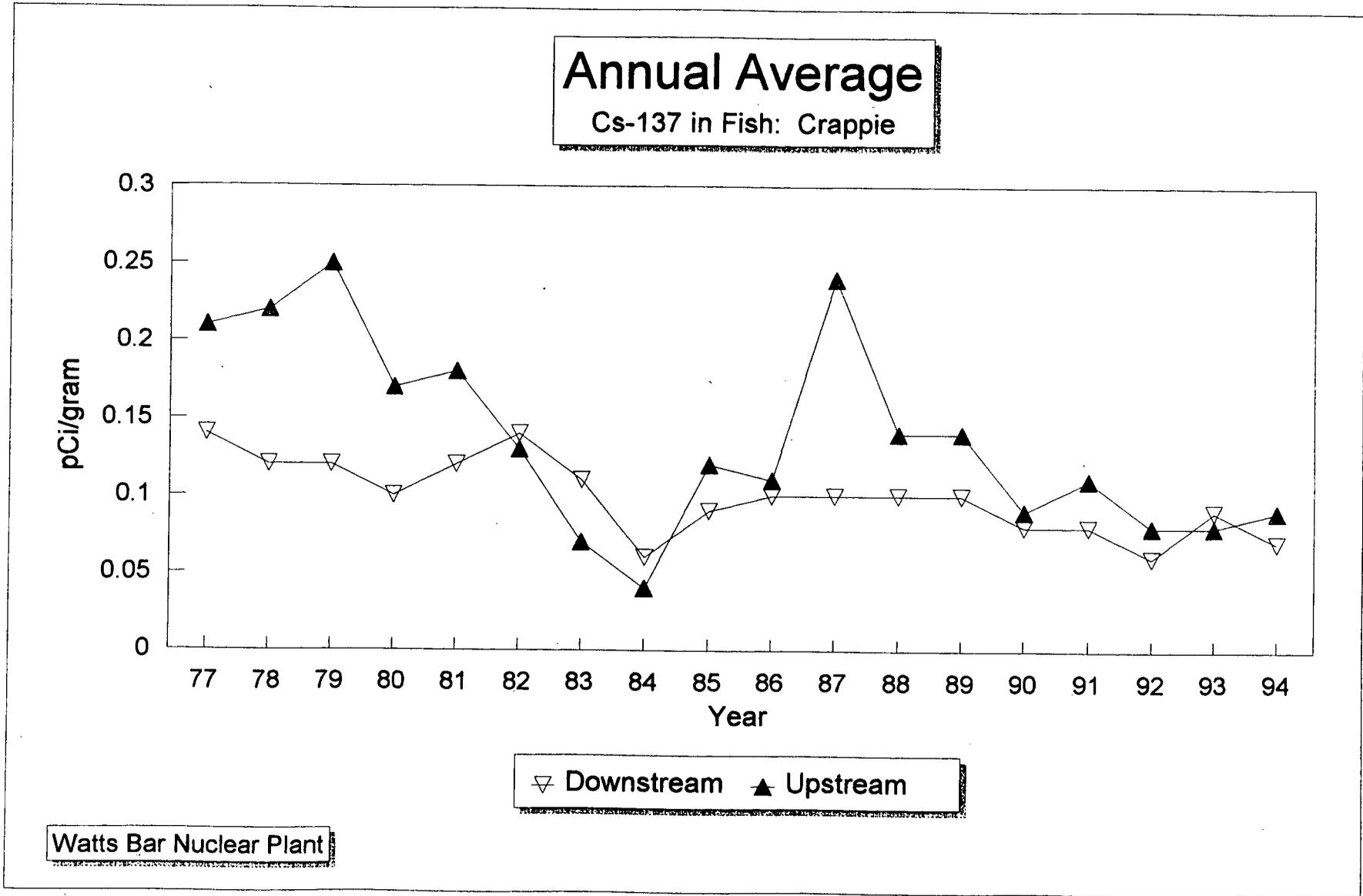


Figure H-9

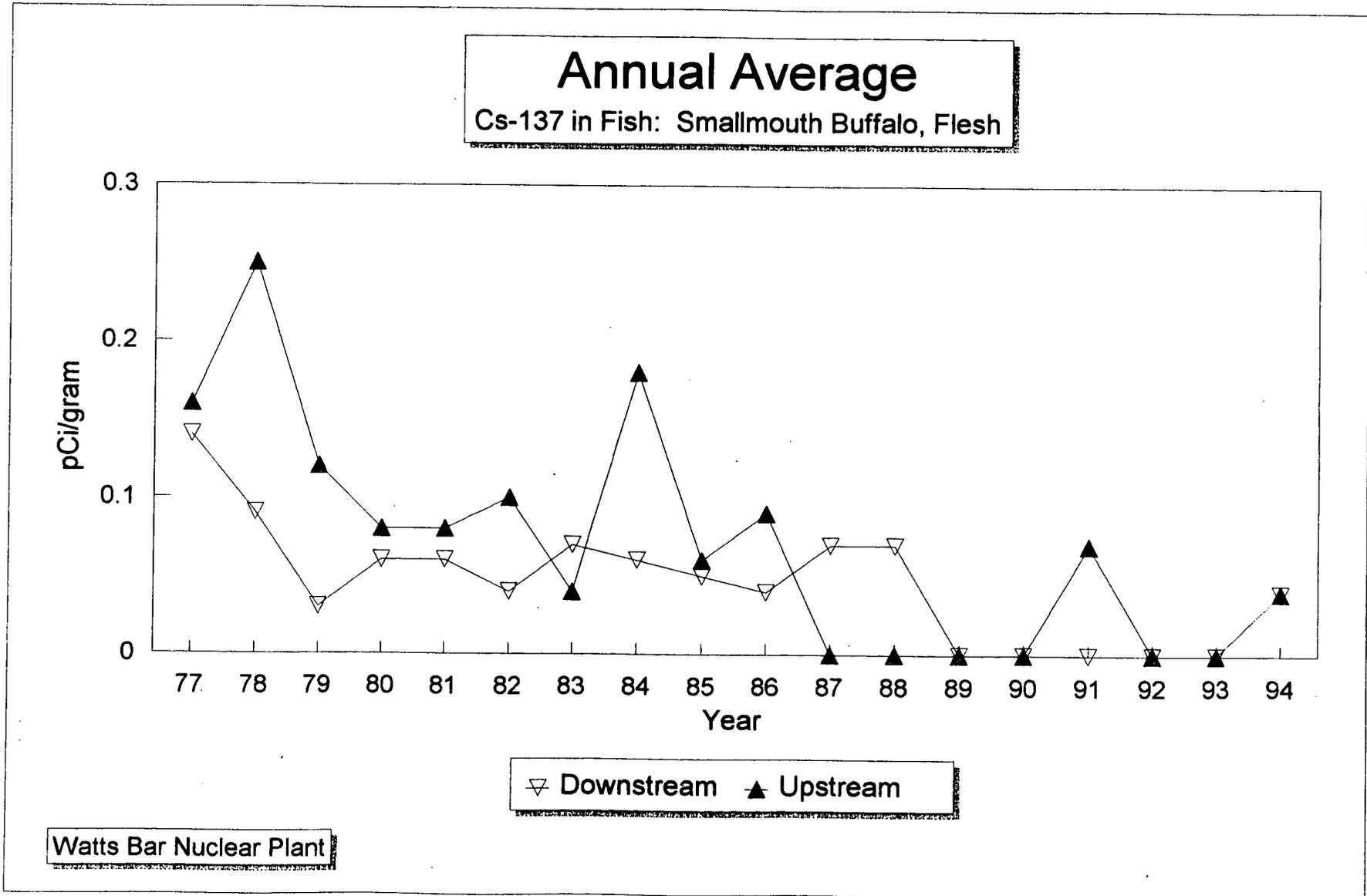


Figure H-10

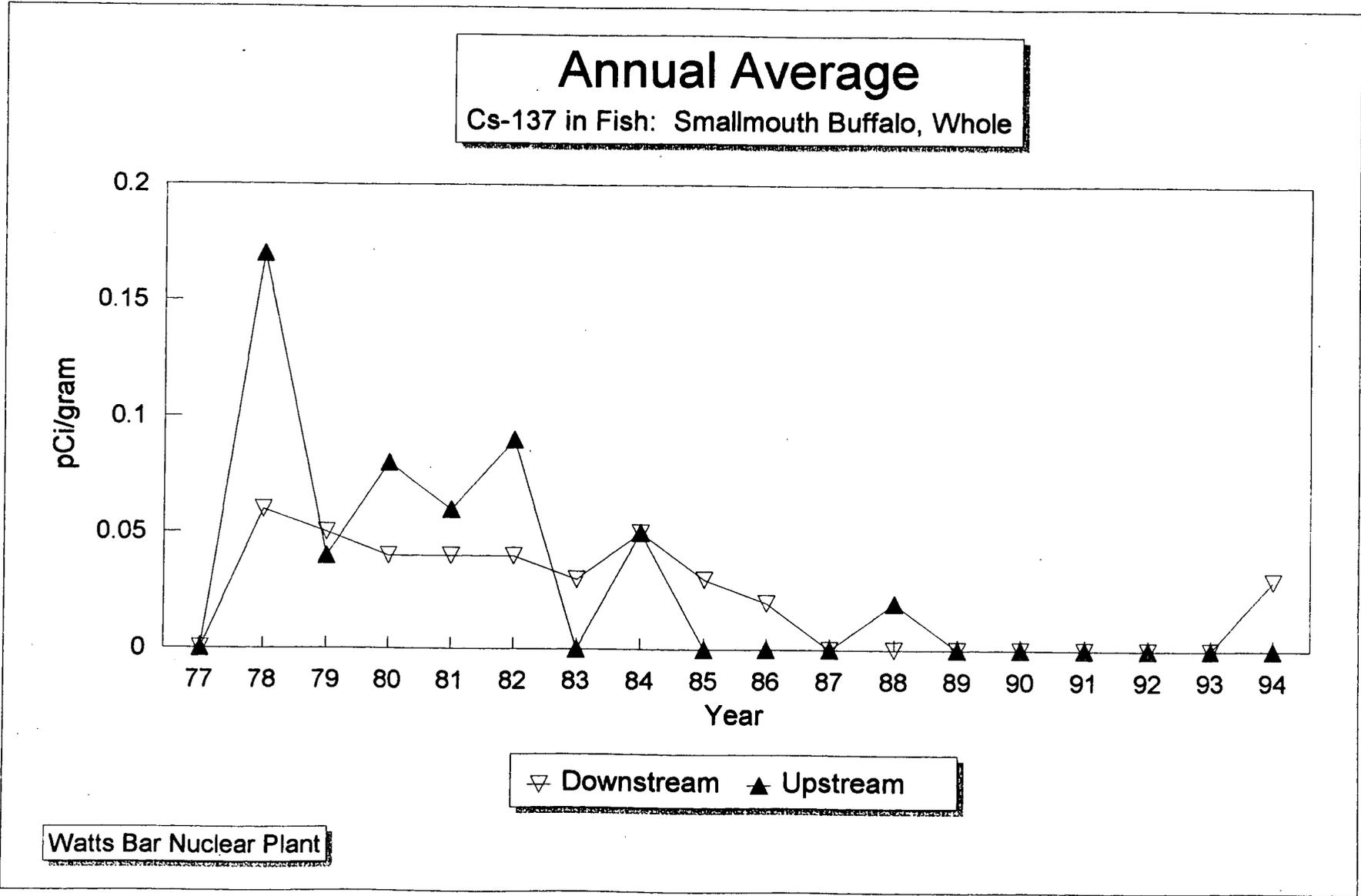
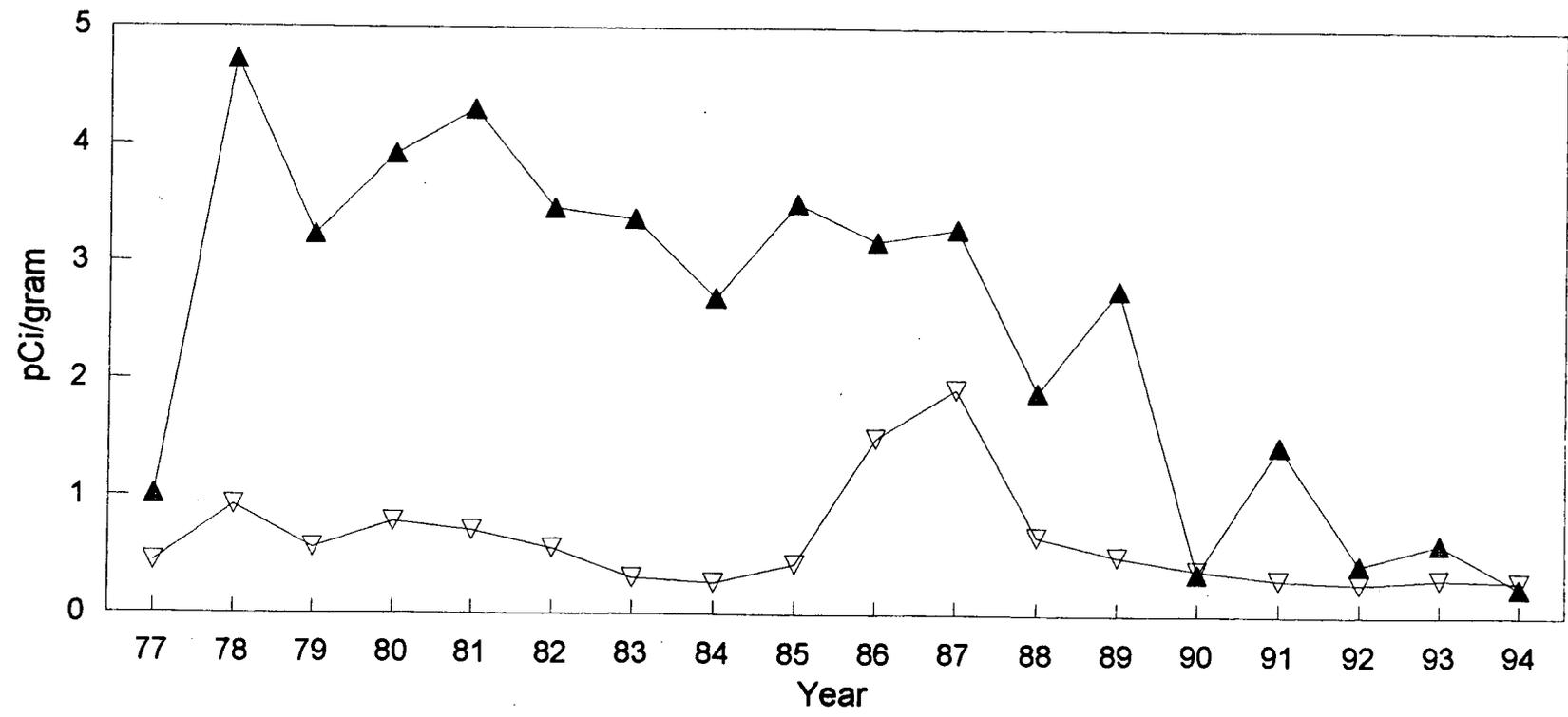


Figure H-11

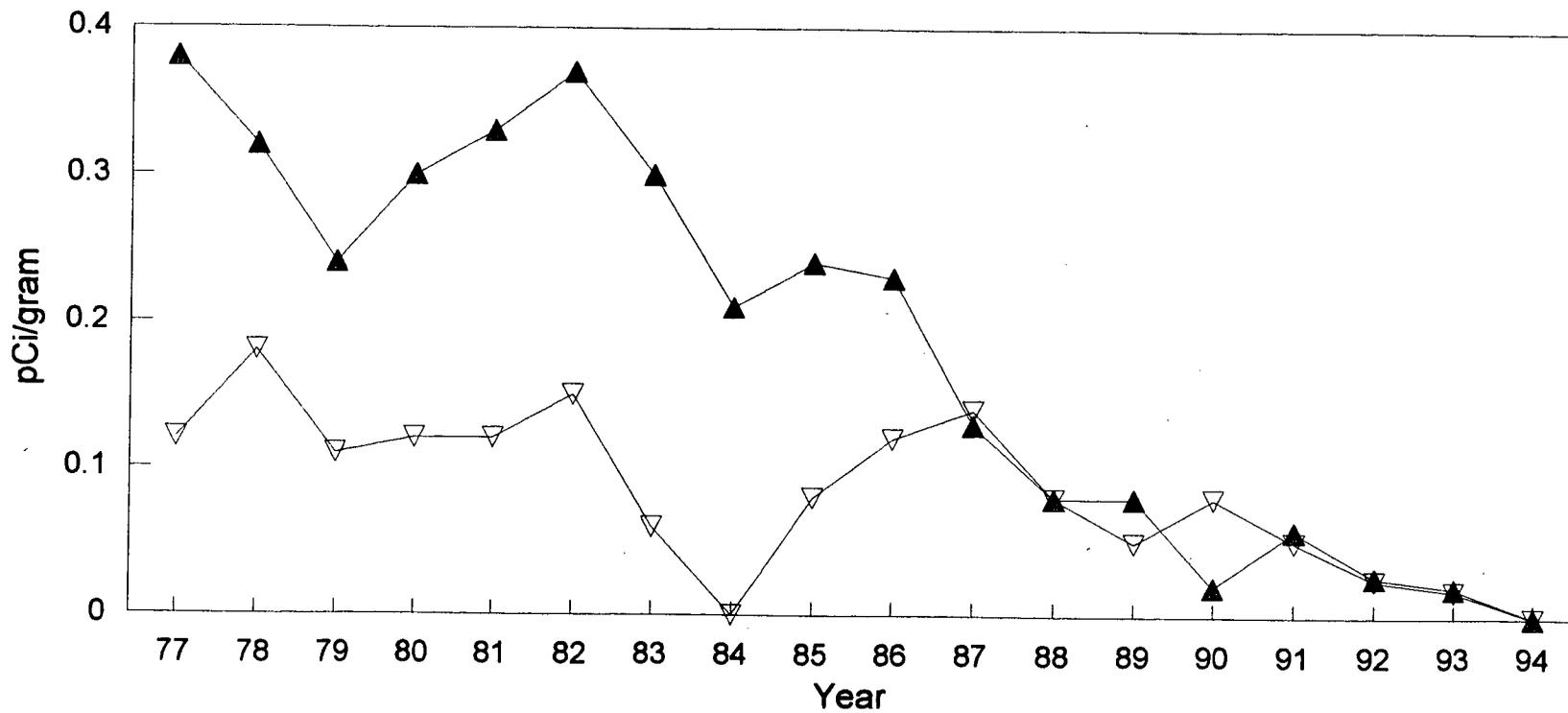
# Annual Average Cs-137 in Sediment



▽ Downstream    ▲ Upstream

Watts Bar Nuclear Plant

Annual Average  
Co-60 in Sediment



▽ Downstream ▲ Upstream

Watts Bar Nuclear Plant

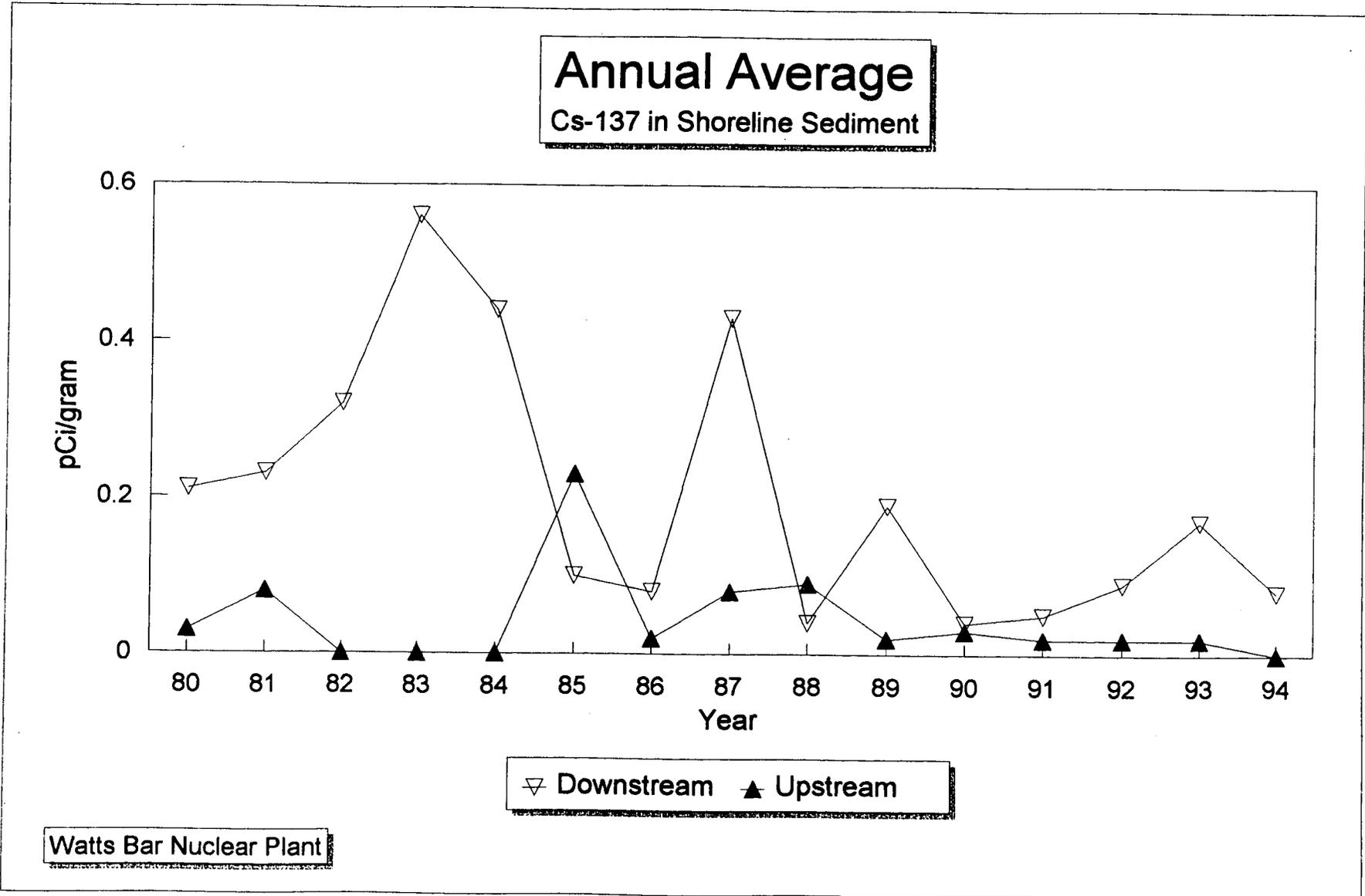


Figure H-14

# **Annual Radiological Environmental Operating Report**

Data Supplement

Watts Bar  
Nuclear Plant  
1994



ANNUAL RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT

WATTS BAR NUCLEAR PLANT

DATA SUPPLEMENT

1994

TENNESSEE VALLEY AUTHORITY

ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION

April 1995

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA

WATTS BAR NUCLEAR PLANT

1994

This supplement to the Watts Bar Nuclear Plant Annual Radiological Environmental Monitoring Report (AREMR) 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 AREMR.

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 alpha, 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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA			
		+0.0222	+0.0024	12/28/93	400059
		+0.0209	+0.0023	01/04/94	400161
		+0.0213	+0.0023	01/11/94	400292
		+0.0209	+0.0023	01/19/94	400396
		+0.0360	+0.0038	01/25/94	400565
		+0.0219	+0.0024	02/01/94	400685
		+0.0289	+0.0031	02/08/94	400821
		+0.0103	+0.0012	02/15/94	400937
		+0.0177	+0.0020	02/22/94	401110
		+0.0161	+0.0018	03/01/94	401217
		+0.0190	+0.0021	03/08/94	401391
		+0.0182	+0.0020	03/15/94	401501
		+0.0157	+0.0018	03/22/94	401687
		+0.0105	+0.0013	03/29/94	401793
		+0.0182	+0.0020	04/05/94	401935
		+0.0127	+0.0014	04/12/94	402063
		+0.0151	+0.0017	04/19/94	402208
		+0.0174	+0.0020	04/26/94	402375
		+0.0120	+0.0014	05/04/94	402578
		+0.0190	+0.0021	05/10/94	402710
		+0.0153	+0.0017	05/17/94	402879
		+0.0127	+0.0015	05/24/94	402981
		+0.0170	+0.0019	05/31/94	403135
		+0.0168	+0.0018	06/07/94	403249
		+0.0154	+0.0017	06/14/94	403464
		+0.0178	+0.0020	06/21/94	403572
		+0.0163	+0.0018	06/28/94	403720
		+0.0172	+0.0019	07/05/94	403818
		+0.0090	+0.0011	07/12/94	403969
		+0.0111	+0.0013	07/19/94	404101
		+0.0172	+0.0019	07/26/94	404237
		+0.0145	+0.0016	08/02/94	404344
		+0.0139	+0.0016	08/09/94	404513
		+0.0234	+0.0025	08/16/94	404652
		+0.0198	+0.0022	08/23/94	404813
		+0.0256	+0.0027	08/30/94	404919
		+0.0221	+0.0024	09/06/94	405114
		+0.0350	+0.0037	09/13/94	405230

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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
2116 RM-2 DAYTON TN 17.75 MILES .NNE	GROSS BETA	+0.0306	+0.0032	09/20/94 405376		
		+0.0205	+0.0022	09/27/94 405533		
		+0.0295	+0.0031	10/04/94 405700		
		+0.0203	+0.0022	10/11/94 405806		
		+0.0146	+0.0017	10/17/94 405948		
		+0.0234	+0.0025	10/25/94 406057		
		+0.0229	+0.0025	11/01/94 406217		
		+0.0209	+0.0023	11/07/94 406412		
		+0.0231	+0.0025	11/15/94 406564		
		+0.0297	+0.0032	11/21/94 406684		
		+0.0219	+0.0024	11/29/94 406854		
		+0.0234	+0.0025	12/06/94 406955		
		+0.0212	+0.0023	12/13/94 407090		
		+0.0242	+0.0026	12/20/94 407195		
		+0.0351	+0.0037	12/27/94 407406		
		GAMMA SCAN (GELI)	BE-7	+0.0786	+0.0074	01/19/94 400471
				+0.0891	+0.0077	02/15/94 401012
				+0.1090	+0.0084	03/15/94 401583
				+0.1076	+0.0086	04/12/94 402138
				+0.1065	+0.0086	05/10/94 402795
+0.1216	+0.0107			06/07/94 403343		
+0.0766	+0.0068			07/05/94 403893		
+0.0688	+0.0059			08/02/94 404420		
+0.0946	+0.0077			08/30/94 405001		
+0.1069	+0.0077			09/27/94 405609		
+0.1053	+0.0076			10/25/94 406136		
+0.1104	+0.0078			11/21/94 406775		
+0.0681	+0.0086			12/20/94 407278		
+0.1333	+0.0164			12/27/94 407406		
BI-214	+0.0011			+0.0010	01/19/94 400471	
	+0.0025			+0.0011	08/02/94 404420	
	+0.0030			+0.0009	08/30/94 405001	
	+0.0005			+0.0008	10/25/94 406136	
	+0.0016			+0.0008	11/21/94 406775	
K-40	+0.0069			+0.0015	12/20/94 407278	
	+0.0087	+0.0062	04/12/94 402138			

TENNESSEE VALLEY AUTHORITY  
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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI) K-40 PB-212 PB-214	+0.0077	+0.0052	05/10/94	402795	
		+0.0003	+0.0005	03/15/94	401583	
		+0.0019	+0.0007	06/07/94	403343	
		+0.0038	+0.0009	08/30/94	405001	
		+0.0003	+0.0007	10/25/94	406136	
		+0.0006	+0.0007	11/21/94	406775	
		+0.0080	+0.0009	12/20/94	407278	
		+0.0043	+0.0040	12/27/94	407406	
		+0.0001	+0.0003	04/12/94	402138	
		SR 89	TL-208	+0.0001	+0.0002	03/15/94
	-0.0002			+0.0003	06/07/94	403344
	+0.0000			+0.0003	08/30/94	405002
	+0.0000			+0.0003	12/20/94	407279
	SR 90		+0.0000	+0.0001	03/15/94	401584
			+0.0002	+0.0001	06/07/94	403344
			+0.0001	+0.0001	08/30/94	405002
			+0.0000	+0.0001	12/20/94	407279
	3101 LM1 ENV DATA STA 0.5 MILES SSW	GROSS BETA	+0.0164	+0.0018	12/29/93	400083
			+0.0172	+0.0020	01/04/94	400189
			+0.0189	+0.0021	01/11/94	400309
+0.0212			+0.0023	01/19/94	400430	
+0.0393			+0.0041	01/25/94	400589	
+0.0186			+0.0020	02/01/94	400713	
+0.0279			+0.0030	02/08/94	400838	
+0.0116			+0.0016	02/15/94	400971	
+0.0171			+0.0019	02/22/94	401134	
+0.0184			+0.0020	03/01/94	401246	
+0.0162			+0.0018	03/09/94	401408	
+0.0176			+0.0020	03/15/94	401537	
+0.0165			+0.0019	03/22/94	401711	
+0.0110			+0.0013	03/29/94	401821	
+0.0171			+0.0019	04/05/94	401952	

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 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1 ENV DATA STA 0.5 MILES SSW	GROSS BETA	+0.0113	+0.0013	04/12/94	402098
		+0.0150	+0.0017	04/19/94	402232
		+0.0211	+0.0023	04/26/94	402443
		+0.0135	+0.0016	05/03/94	402595
		+0.0153	+0.0017	05/10/94	402755
		+0.0145	+0.0016	05/17/94	402903
		+0.0127	+0.0015	05/24/94	403009
		+0.0184	+0.0020	05/31/94	403152
		+0.0139	+0.0016	06/07/94	403286
		+0.0145	+0.0016	06/14/94	403488
		+0.0148	+0.0017	06/21/94	403600
		+0.0154	+0.0017	06/28/94	403737
		+0.0164	+0.0018	07/05/94	403852
		+0.0088	+0.0011	07/12/94	403993
		+0.0116	+0.0014	07/19/94	404129
		+0.0165	+0.0018	07/27/94	404254
		+0.0184	+0.0021	08/02/94	404379
		+0.0141	+0.0016	08/09/94	404537
		+0.0196	+0.0022	08/16/94	404679
		+0.0188	+0.0021	08/23/94	404830
		+0.0277	+0.0029	08/30/94	404954
		+0.0177	+0.0019	09/07/94	405138
		+0.0335	+0.0035	09/13/94	405257
		+0.0297	+0.0032	09/20/94	405393
		+0.0228	+0.0025	09/27/94	405566
		+0.0280	+0.0030	10/04/94	405724
		+0.0184	+0.0020	10/11/94	405834
		+0.0141	+0.0016	10/17/94	405965
		+0.0202	+0.0022	10/25/94	406092
		+0.0222	+0.0024	11/01/94	406256
		+0.0219	+0.0024	11/07/94	406439
		+0.0242	+0.0026	11/15/94	406581
+0.0266	+0.0029	11/21/94	406733		
+0.0218	+0.0024	11/29/94	406879		
+0.0257	+0.0028	12/06/94	406983		
+0.0222	+0.0024	12/13/94	407107		
+0.0243	+0.0026	12/20/94	407230		
+0.0327	+0.0035	12/27/94	407423		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3101 LM1 ENV DATA STA 0.5 MILES SSW	GAMMA SCAN (GELI)				
	NO ACTIVITY DETECTED				
	BE-7	+0.0761	12/27/94	407423	
		+0.0828	+0.0056	01/19/94 400478	
		+0.1032	+0.0077	02/15/94 401019	
		+0.1099	+0.0113	03/15/94 401591	
		+0.1127	+0.0068	04/12/94 402145	
		+0.0703	+0.0098	05/10/94 402802	
		+0.0793	+0.0078	06/07/94 403351	
		+0.0739	+0.0080	07/05/94 403900	
		+0.0918	+0.0079	08/02/94 404427	
		+0.0931	+0.0074	08/30/94 405009	
		+0.0835	+0.0082	09/27/94 405616	
		+0.1045	+0.0062	10/25/94 406143	
	BI-214	+0.0767	+0.0095	11/21/94 406782	
		+0.0016	+0.0061	12/20/94 407286	
		+0.0009	+0.0008	01/19/94 400478	
		+0.0004	+0.0006	07/05/94 403900	
		+0.0048	+0.0008	10/25/94 406143	
		+0.0058	+0.0017	11/21/94 406782	
		+0.0021	+0.0010	12/20/94 407286	
		K-40	+0.0021	+0.0070	11/21/94 406782
			PB-212	+0.0001	+0.0004
		PB-214		+0.0019	+0.0008
			+0.0013	+0.0006	03/15/94 401591
		+0.0026	+0.0009	05/10/94 402802	
	+0.0001	+0.0007	08/30/94 405009		
	+0.0026	+0.0012	11/21/94 406782		
	SR 89	+0.0067	+0.0010	12/20/94 407286	
		+0.0000	+0.0002	03/15/94 401592	
		+0.0001	+0.0002	06/07/94 403352	
	SR 90	+0.0000	+0.0002	12/20/94 407287	
		+0.0000	+0.0001	03/15/94 401592	
+0.0000		+0.0001	06/07/94 403352		
3102 LM2 N. WBSP GATE 0.5 MILES N	GROSS BETA				
	+0.0210	+0.0001	12/20/94 407287		
	+0.0210	+0.0023	12/29/93 400086		

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3102 LM2 N. WBSP GATE. 0.5 MILES N	GROSS BETA	+0.0192	+0.0021	01/04/94	400192
		+0.0220	+0.0024	01/11/94	400311
		+0.0215	+0.0023	01/19/94	400432
		+0.0369	+0.0039	01/25/94	400592
		+0.0194	+0.0021	02/01/94	400716
		+0.0287	+0.0031	02/08/94	400840
		+0.0116	+0.0014	02/15/94	400973
		+0.0165	+0.0018	02/22/94	401137
		+0.0176	+0.0020	03/01/94	401249
		+0.0166	+0.0019	03/09/94	401410
		+0.0171	+0.0019	03/15/94	401539
		+0.0166	+0.0019	03/22/94	401714
		+0.0120	+0.0014	03/29/94	401824
		+0.0180	+0.0020	04/05/94	401954
		+0.0104	+0.0012	04/12/94	402100
		+0.0161	+0.0018	04/19/94	402235
		+0.0197	+0.0021	04/26/94	402446
		+0.0149	+0.0017	05/03/94	402597
		+0.0168	+0.0019	05/10/94	402757
		+0.0166	+0.0018	05/17/94	402906
		+0.0131	+0.0015	05/24/94	403012
		+0.0179	+0.0020	05/31/94	403154
		+0.0183	+0.0020	06/07/94	403289
		+0.0164	+0.0018	06/14/94	403491
		+0.0165	+0.0018	06/21/94	403603
		+0.0157	+0.0018	06/28/94	403739
		+0.0168	+0.0019	07/05/94	403854
		+0.0085	+0.0011	07/12/94	403996
		+0.0109	+0.0013	07/19/94	404132
		+0.0167	+0.0019	07/27/94	404256
		+0.0166	+0.0019	08/02/94	404381
		+0.0141	+0.0016	08/09/94	404540
+0.0207	+0.0022	08/16/94	404682		
+0.0178	+0.0020	08/23/94	404832		
+0.0263	+0.0028	08/30/94	404956		
+0.0204	+0.0022	09/07/94	405142		
+0.0371	+0.0039	09/13/94	405260		
+0.0307	+0.0033	09/20/94	405395		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3102 LM2 N. WBSP GATE 0.5 MILES N	GROSS BETA	+0.0137	+0.0017	10/17/94 405967		
		+0.0232	+0.0025	10/25/94 406094		
		+0.0215	+0.0023	11/01/94 406259		
		+0.0190	+0.0021	11/07/94 406442		
		+0.0239	+0.0026	11/16/94 406583		
		+0.0243	+0.0027	11/21/94 406735		
		+0.0200	+0.0022	11/29/94 406882		
		+0.0245	+0.0026	12/06/94 406986		
		+0.0204	+0.0022	12/13/94 407109		
		+0.0254	+0.0027	12/20/94 407232		
		+0.0342	+0.0036	12/27/94 407425		
		GAMMA SCAN (GELI)	BE-7	+0.0807	+0.0092	01/19/94 400479
				+0.0759	+0.0062	02/15/94 401020
				+0.1060	+0.0087	03/15/94 401593
	+0.1115			+0.0111	04/12/94 402146	
	+0.1095			+0.0088	05/10/94 402803	
	+0.0824			+0.0075	06/07/94 403353	
	+0.0958			+0.0090	07/05/94 403901	
	+0.0712			+0.0070	08/02/94 404428	
	+0.0971			+0.0078	08/30/94 405011	
	+0.1015			+0.0105	09/27/94 405617	
	+0.1158			+0.0128	10/25/94 406144	
	+0.0963			+0.0089	11/21/94 406783	
	+0.0780			+0.0078	12/20/94 407288	
	+0.1402			+0.0218	12/27/94 407425	
	B1-214			+0.0014	+0.0008	01/19/94 400479
				+0.0021	+0.0008	02/15/94 401020
				+0.0084	+0.0039	05/10/94 402803
				+0.0023	+0.0011	06/07/94 403353
		+0.0021	+0.0013	07/05/94 403901		
		+0.0009	+0.0009	08/02/94 404428		
		+0.0020	+0.0020	10/25/94 406144		
		+0.0083	+0.0048	11/21/94 406783		
		+0.0070	+0.0011	12/20/94 407288		
		+0.0155	+0.0072	12/27/94 407425		
	K-40	+0.0030	+0.0048	11/21/94 406783		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3102 LM2 N. WBSP GATE 0.5 MILES N	GAMMA SCAN (GELI) PB-214	+0.0003	+0.0006	01/19/94	400479	
		+0.0023	+0.0009	02/15/94	401020	
		+0.0021	+0.0006	05/10/94	402803	
		+0.0018	+0.0008	06/07/94	403353	
		+0.0012	+0.0009	07/05/94	403901	
		+0.0007	+0.0006	08/02/94	404428	
		+0.0015	+0.0008	11/21/94	406783	
		+0.0077	+0.0011	12/20/94	407288	
		+0.0115	+0.0039	12/27/94	407425	
		SR 89				
		+0.0001	+0.0002	03/15/94	401594	
		+0.0000	+0.0002	06/07/94	403354	
		+0.0000	+0.0003	12/20/94	407289	
	SR 90					
		+0.0000	+0.0001	03/15/94	401594	
		+0.0000	+0.0001	06/07/94	403354	
		+0.0001	+0.0001	12/20/94	407289	
	3106 PM2 SPRING CITY 7.0 MILES NW	GROSS BETA	+0.0208	+0.0023	12/28/93	400090
			+0.0188	+0.0021	01/04/94	400196
			+0.0194	+0.0021	01/11/94	400314
+0.0193			+0.0021	01/19/94	400435	
+0.0355			+0.0038	01/25/94	400596	
+0.0200			+0.0022	02/01/94	400720	
+0.0299			+0.0032	02/08/94	400843	
+0.0114			+0.0013	02/15/94	400976	
+0.0190			+0.0021	02/23/94	401141	
+0.0159			+0.0018	03/02/94	401253	
+0.0198			+0.0022	03/08/94	401413	
+0.0164			+0.0018	03/15/94	401542	
+0.0153			+0.0017	03/22/94	401718	
+0.0115			+0.0014	03/29/94	401828	
+0.0172			+0.0019	04/05/94	401957	
+0.0131			+0.0015	04/12/94	402103	
+0.0165			+0.0018	04/19/94	402239	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3106 PM2 SPRING CITY 7.0 MILES NW	GROSS BETA	+0.0193	+0.0021	04/26/94 402450
		+0.0144	+0.0016	05/04/94 402600
		+0.0151	+0.0017	05/10/94 402760
		+0.0154	+0.0017	05/17/94 402911
		+0.0108	+0.0013	05/24/94 403016
		+0.0205	+0.0022	05/31/94 403157
		+0.0174	+0.0019	06/07/94 403293
		+0.0153	+0.0017	06/14/94 403495
		+0.0203	+0.0022	06/21/94 403607
		+0.0135	+0.0016	06/28/94 403742
		+0.0179	+0.0020	07/05/94 403857
		+0.0103	+0.0013	07/12/94 404000
		+0.0119	+0.0014	07/19/94 404136
		+0.0171	+0.0019	07/26/94 404259
		+0.0179	+0.0020	08/02/94 404384
		+0.0154	+0.0018	08/09/94 404544
		+0.0215	+0.0023	08/16/94 404686
		+0.0197	+0.0022	08/23/94 404835
		+0.0266	+0.0028	08/30/94 404959
		+0.0174	+0.0019	09/06/94 405146
		+0.0324	+0.0034	09/13/94 405264
		+0.0287	+0.0031	09/20/94 405398
		+0.0226	+0.0025	09/27/94 405571
		+0.0268	+0.0029	10/04/94 405731
		+0.0202	+0.0022	10/11/94 405841
		+0.0168	+0.0019	10/18/94 405970
		+0.0227	+0.0025	10/25/94 406097
		+0.0208	+0.0023	11/01/94 406263
		+0.0208	+0.0023	11/07/94 406446
		+0.0237	+0.0025	11/15/94 406586
		+0.0263	+0.0028	11/21/94 406738
		+0.0213	+0.0023	11/29/94 406886
		+0.0232	+0.0025	12/06/94 406990
+0.0217	+0.0024	12/13/94 407112		
+0.0251	+0.0027	12/20/94 407235		
+0.0296	+0.0031	12/27/94 407428		
	GAMMA SCAN (GEL1)			
	BE-7	+0.0751	+0.0063	01/19/94 400480

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI) BE-7	+0.0727	+0.0084	02/15/94	401021	
		+0.1012	+0.0087	03/15/94	401595	
		+0.1019	+0.0078	04/12/94	402147	
		+0.1019	+0.0071	05/10/94	402804	
		+0.0610	+0.0052	06/07/94	403355	
		+0.0781	+0.0067	07/05/94	403902	
		+0.0667	+0.0066	08/02/94	404429	
		+0.0969	+0.0084	08/30/94	405013	
		+0.1075	+0.0096	09/27/94	405618	
		+0.0853	+0.0081	10/25/94	406145	
		+0.0942	+0.0109	11/21/94	406784	
		+0.0698	+0.0057	12/20/94	407290	
		+0.1079	+0.0136	12/27/94	407428	
		BI-214	+0.0012	+0.0008	05/10/94	402804
			+0.0011	+0.0008	06/07/94	403355
	+0.0030		+0.0008	08/02/94	404429	
	+0.0009		+0.0010	08/30/94	405013	
	+0.0016		+0.0013	11/21/94	406784	
	+0.0048		+0.0010	12/20/94	407290	
	K-40	+0.0073	+0.0052	01/19/94	400480	
		+0.0056	+0.0053	03/15/94	401595	
	PB-212	+0.0048	+0.0060	09/27/94	405618	
		+0.0002	+0.0004	04/12/94	402147	
	PB-214	+0.0042	+0.0008	08/02/94	404429	
		+0.0003	+0.0006	08/30/94	405013	
	SR 89	+0.0034	+0.0009	12/20/94	407290	
		+0.0000	+0.0002	03/15/94	401596	
		-0.0001	+0.0002	06/07/94	403356	
	SR 90	+0.0001	+0.0002	12/20/94	407291	
		+0.0000	+0.0001	03/15/94	401596	
		+0.0001	+0.0001	06/07/94	403356	
	3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GROSS BETA	+0.0000	+0.0001	12/20/94	407291
			+0.0192	+0.0021	12/28/93	400093

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3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GROSS BETA			
		+0.0197	+0.0022	01/04/94	400199
		+0.0207	+0.0022	01/11/94	400316
		+0.0295	+0.0031	01/25/94	400599
		+0.0161	+0.0021	02/01/94	400723
		+0.0254	+0.0027	02/08/94	400845
		+0.0118	+0.0014	02/15/94	400978
		+0.0158	+0.0017	02/23/94	401144
		+0.0256	+0.0028	03/08/94	401415
		+0.0146	+0.0017	03/15/94	401544
		+0.0137	+0.0016	03/22/94	401721
		+0.0124	+0.0015	03/29/94	401831
		+0.0176	+0.0020	04/05/94	401959
		+0.0113	+0.0013	04/12/94	402105
		+0.0152	+0.0017	04/19/94	402242
		+0.0207	+0.0023	04/26/94	402453
		+0.0125	+0.0015	05/04/94	402602
		+0.0173	+0.0020	05/10/94	402762
		+0.0157	+0.0020	05/17/94	402914
		+0.0107	+0.0013	05/24/94	403019
		+0.0179	+0.0020	05/31/94	403159
		+0.0176	+0.0020	06/07/94	403296
		+0.0150	+0.0017	06/14/94	403498
		+0.0189	+0.0022	06/21/94	403610
		+0.0159	+0.0018	06/28/94	403744
		+0.0159	+0.0018	07/05/94	403859
		+0.0102	+0.0013	07/12/94	404003
		+0.0116	+0.0014	07/19/94	404139
		+0.0166	+0.0018	07/26/94	404261
		+0.0179	+0.0020	08/02/94	404386
		+0.0163	+0.0018	08/09/94	404547
		+0.0231	+0.0025	08/16/94	404689
		+0.0197	+0.0022	08/23/94	404837
		+0.0283	+0.0030	08/30/94	404961
		+0.0207	+0.0023	09/06/94	405150
		+0.0355	+0.0037	09/13/94	405267
		+0.0328	+0.0035	09/20/94	405400
		+0.0232	+0.0025	09/27/94	405573
		+0.0296	+0.0031	10/04/94	405734

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 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GROSS BETA	+0.0212	+0.0023	10/11/94 405844		
		+0.0186	+0.0021	10/18/94 405972		
		+0.0239	+0.0026	10/25/94 406099		
		+0.0257	+0.0027	11/01/94 406266		
		+0.0207	+0.0023	11/07/94 406449		
		+0.0223	+0.0024	11/15/94 406588		
		+0.0240	+0.0026	11/21/94 406740		
		+0.0215	+0.0023	11/29/94 406889		
		+0.0239	+0.0026	12/06/94 406993		
		+0.0223	+0.0024	12/13/94 407114		
		+0.0264	+0.0028	12/20/94 407237		
		+0.0357	+0.0038	12/27/94 407430		
			GAMMA SCAN (GEL1)			
			BE-7	+0.0670	+0.0068	01/19/94 400481
				+0.0695	+0.0069	02/15/94 401022
				+0.0891	+0.0097	03/15/94 401597
				+0.1111	+0.0094	04/12/94 402148
		+0.1024	+0.0075	05/10/94 402805		
		+0.0778	+0.0068	06/07/94 403357		
		+0.0829	+0.0085	07/05/94 403903		
		+0.0682	+0.0060	08/02/94 404430		
		+0.1084	+0.0084	08/30/94 405015		
		+0.1046	+0.0087	09/27/94 405619		
		+0.1015	+0.0121	10/25/94 406146		
		+0.1137	+0.0083	11/21/94 406785		
		+0.0789	+0.0067	12/20/94 407292		
		+0.1224	+0.0160	12/27/94 407430		
	BI-214	+0.0006	+0.0009	04/12/94 402148		
		+0.0007	+0.0008	05/10/94 402805		
		+0.0009	+0.0011	06/07/94 403357		
		+0.0104	+0.0037	11/21/94 406785		
		+0.0030	+0.0009	12/20/94 407292		
		+0.0212	+0.0053	12/27/94 407430		
	K-40	+0.0141	+0.0085	03/15/94 401597		
		+0.0016	+0.0068	04/12/94 402148		
		+0.0036	+0.0060	12/20/94 407292		
	PB-212	+0.0003	+0.0006	01/19/94 400481		

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 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GAMMA SCAN (GELI) PB-212	+0.0005	+0.0006	03/15/94 401597	
		+0.0005	+0.0007	05/10/94 402805	
	PB-214	+0.0007	+0.0004	08/02/94 404430	
		+0.0028	+0.0009	06/07/94 403357	
		+0.0108	+0.0018	11/21/94 406785	
		+0.0025	+0.0009	12/20/94 407292	
	SR 89	+0.0149	+0.0048	12/27/94 407430	
	SR 90	+0.0002	+0.0003	03/15/94 401598	
		+0.0002	+0.0002	06/07/94 403358	
		-0.0001	+0.0003	08/30/94 405016	
		-0.0001	+0.0002	12/20/94 407293	
	3108 PM-4 TEN MILE 7.8 M. NE/ENE	GROSS BETA	+0.0000	+0.0001	03/15/94 401598
			+0.0000	+0.0001	06/07/94 403358
			+0.0001	+0.0001	08/30/94 405016
			+0.0002	+0.0001	12/20/94 407293
		+0.0218	+0.0024	12/29/93 400096	
		+0.0202	+0.0022	01/05/94 400202	
		+0.0217	+0.0024	01/11/94 400318	
		+0.0207	+0.0022	01/20/94 400439	
		+0.0371	+0.0040	01/25/94 400602	
		+0.0214	+0.0023	02/02/94 400726	
		+0.0266	+0.0029	02/09/94 400847	
		+0.0121	+0.0014	02/16/94 400980	
		+0.0182	+0.0020	02/23/94 401147	
		+0.0181	+0.0020	03/02/94 401259	
		+0.0159	+0.0018	03/09/94 401417	
		+0.0192	+0.0021	03/15/94 401546	
		+0.0083	+0.0010	03/22/94 401724	
		+0.0131	+0.0015	03/29/94 401834	
		+0.0147	+0.0016	04/05/94 401961	
+0.0118	+0.0014	04/12/94 402107			
+0.0155	+0.0017	04/19/94 402245			

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GROSS BETA	+0.0197	+0.0021	04/26/94 402456
		+0.0133	+0.0015	05/03/94 402604
		+0.0162	+0.0018	05/11/94 402764
		+0.0156	+0.0018	05/17/94 402917
		+0.0144	+0.0017	05/24/94 403022
		+0.0188	+0.0021	06/01/94 403161
		+0.0155	+0.0017	06/08/94 403299
		+0.0162	+0.0019	06/14/94 403501
		+0.0202	+0.0022	06/22/94 403613
		+0.0140	+0.0016	06/29/94 403746
		+0.0157	+0.0018	07/05/94 403861
		+0.0095	+0.0012	07/12/94 404007
		+0.0112	+0.0013	07/19/94 404142
		+0.0163	+0.0018	07/27/94 404263
		+0.0173	+0.0019	08/03/94 404388
		+0.0154	+0.0018	08/09/94 404550
		+0.0219	+0.0024	08/17/94 404692
		+0.0204	+0.0022	08/24/94 404839
		+0.0269	+0.0029	08/30/94 404963
		+0.0208	+0.0022	09/07/94 405153
		+0.0392	+0.0041	09/14/94 405270
		+0.0276	+0.0030	09/20/94 405402
		+0.0226	+0.0024	09/27/94 405575
		+0.0281	+0.0030	10/05/94 405738
		+0.0225	+0.0025	10/11/94 405847
		+0.0170	+0.0019	10/18/94 405974
		+0.0232	+0.0025	10/26/94 406101
		+0.0238	+0.0026	11/02/94 406269
		+0.0200	+0.0023	11/08/94 406452
		+0.0267	+0.0028	11/16/94 406590
+0.0247	+0.0027	11/22/94 406742		
+0.0223	+0.0024	11/30/94 406892		
+0.0268	+0.0029	12/06/94 406996		
+0.0232	+0.0025	12/14/94 407116		
+0.0292	+0.0031	12/20/94 407239		
+0.0354	+0.0037	12/27/94 407432		
	GAMMA SCAN (GELI)			
	BE-7	+0.0848	+0.0084	01/20/94 400482

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GAMMA SCAN (GELI) BE-7	+0.0759	+0.0071	02/16/94	401023	
		+0.1194	+0.0095	03/15/94	401599	
		+0.0760	+0.0074	04/12/94	402149	
		+0.1178	+0.0089	05/11/94	402806	
		+0.0696	+0.0075	06/08/94	403359	
		+0.0942	+0.0077	07/05/94	403904	
		+0.0824	+0.0098	08/03/94	404431	
		+0.1010	+0.0093	08/30/94	405017	
		+0.0999	+0.0083	09/27/94	405620	
		+0.0984	+0.0091	10/26/94	406147	
		+0.1052	+0.0087	11/22/94	406786	
		+0.0871	+0.0095	12/20/94	407294	
		+0.1362	+0.0593	12/27/94	407432	
		BI-214	+0.0010	+0.0010	01/20/94	400482
			+0.0009	+0.0010	02/16/94	401023
	+0.0005		+0.0007	03/15/94	401599	
	+0.0004		+0.0008	05/11/94	402806	
	+0.0003		+0.0007	09/27/94	405620	
	+0.0022		+0.0007	11/22/94	406786	
	PB-214		+0.0045	+0.0014	12/20/94	407294
			+0.0006	+0.0008	01/20/94	400482
			+0.0006	+0.0008	02/16/94	401023
			+0.0002	+0.0012	03/15/94	401599
		+0.0006	+0.0009	05/11/94	402806	
		+0.0043	+0.0010	06/08/94	403359	
		+0.0000	+0.0007	10/26/94	406147	
		+0.0023	+0.0007	11/22/94	406786	
	SR 89	+0.0044	+0.0009	12/20/94	407294	
		+0.0125	+0.0039	12/27/94	407432	
	SR 90	-0.0001	+0.0002	03/15/94	401600	
		+0.0002	+0.0002	06/08/94	403360	
		+0.0003	+0.0003	08/30/94	405018	
		+0.0000	+0.0002	12/20/94	407295	
		+0.0001	+0.0001	03/15/94	401600	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3108 PM-4 TEN MILE 7.8 M. NE/ENE	SR 90	+0.0000	+0.0001	06/08/94	403360
		+0.0000	+0.0001	08/30/94	405018
		+0.0000	+0.0001	12/20/94	407295
3109 PMS DECATUR 6.25 MILES S	GROSS BETA	+0.0182	+0.0020	12/29/93	400100
		+0.0201	+0.0022	01/05/94	400205
		+0.0209	+0.0023	01/11/94	400320
		+0.0226	+0.0024	01/20/94	400441
		+0.0333	+0.0036	01/26/94	400605
		+0.0163	+0.0019	02/01/94	400729
		+0.0233	+0.0025	02/09/94	400849
		+0.0097	+0.0012	02/16/94	400982
		+0.0163	+0.0018	02/23/94	401151
		+0.0205	+0.0023	03/01/94	401262
		+0.0164	+0.0018	03/09/94	401419
		+0.0194	+0.0022	03/15/94	401548
		+0.0151	+0.0017	03/22/94	401727
		+0.0134	+0.0015	03/29/94	401837
		+0.0157	+0.0018	04/05/94	401963
		+0.0105	+0.0013	04/12/94	402109
		+0.0161	+0.0018	04/19/94	402248
		+0.0199	+0.0022	04/26/94	402459
		+0.0134	+0.0015	05/03/94	402606
		+0.0160	+0.0018	05/11/94	402766
		+0.0155	+0.0018	05/17/94	402920
		+0.0149	+0.0017	05/25/94	403025
		+0.0180	+0.0020	06/01/94	403163
		+0.0151	+0.0017	06/08/94	403302
		+0.0173	+0.0019	06/14/94	403504
		+0.0181	+0.0020	06/22/94	403616
		+0.0171	+0.0019	06/29/94	403748
		+0.0172	+0.0019	07/06/94	403863
		+0.0093	+0.0012	07/12/94	404010
		+0.0124	+0.0014	07/20/94	404145
		+0.0159	+0.0018	07/27/94	404265
		+0.0166	+0.0019	08/02/94	404390
+0.0143	+0.0016	08/09/94	404553		

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 PC1/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3109 PM5 DECATUR 6.25 MILES S	GROSS BETA	+0.0217	+0.0024	08/16/94 404695		
		+0.0181	+0.0020	08/24/94 404841		
		+0.0275	+0.0030	08/30/94 404965		
		+0.0226	+0.0024	09/07/94 405156		
		+0.0350	+0.0037	09/14/94 405273		
		+0.0295	+0.0031	09/20/94 405404		
		+0.0215	+0.0023	09/27/94 405577		
		+0.0275	+0.0029	10/05/94 405741		
		+0.0218	+0.0024	10/11/94 405850		
		+0.0164	+0.0018	10/18/94 405976		
		+0.0231	+0.0025	10/26/94 406103		
		+0.0242	+0.0026	11/02/94 406272		
		+0.0218	+0.0024	11/08/94 406455		
		+0.0277	+0.0029	11/16/94 406592		
		+0.0245	+0.0027	11/22/94 406744		
		+0.0234	+0.0025	11/30/94 406895		
		+0.0228	+0.0025	12/07/94 406999		
		+0.0223	+0.0024	12/14/94 407118		
		+0.0263	+0.0029	12/21/94 407241		
		+0.0321	+0.0034	12/27/94 407434		
			GAMMA SCAN (GELI)			
				NO ACTIVITY DETECTED		12/27/94 407434
			AC-228	+0.0014	+0.0010	05/11/94 402807
			BE-7	+0.0756	+0.0075	01/20/94 400483
				+0.0642	+0.0058	02/16/94 401024
				+0.1042	+0.0101	03/15/94 401601
				+0.1096	+0.0108	04/12/94 402150
		+0.1079	+0.0091	05/11/94 402807		
		+0.0632	+0.0079	06/08/94 403361		
		+0.0851	+0.0076	07/06/94 403905		
		+0.0668	+0.0070	08/02/94 404432		
		+0.1001	+0.0104	08/30/94 405019		
		+0.1024	+0.0083	09/27/94 405621		
		+0.0963	+0.0077	10/26/94 406148		
		+0.1014	+0.0083	11/22/94 406787		
		+0.0801	+0.0064	12/21/94 407296		
	BI-214	+0.0019	+0.0009	02/16/94 401024		

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3109 PM5 DECATUR 6.25 MILES S	GAMMA SCAN (GELI) BI-214	+0.0009	+0.0007	08/02/94 404432	
		+0.0020	+0.0009	09/27/94 405621	
		+0.0008	+0.0008	10/26/94 406148	
		+0.0063	+0.0014	11/22/94 406787	
		+0.0025	+0.0008	12/21/94 407296	
		K-40 PB-214	+0.0077	+0.0076	06/08/94 403361
			+0.0004	+0.0005	01/20/94 400483
			+0.0015	+0.0009	02/16/94 401024
			+0.0038	+0.0011	08/30/94 405019
			+0.0005	+0.0009	10/26/94 406148
			+0.0075	+0.0016	11/22/94 406787
			+0.0024	+0.0011	12/21/94 407296
		TL-208	+0.0001	+0.0003	01/20/94 400483
		SR 89			
			+0.0001	+0.0002	03/15/94 401602
			+0.0001	+0.0002	06/08/94 403362
			+0.0000	+0.0003	08/30/94 405020
		+0.0001	+0.0002	12/21/94 407297	
	SR 90				
		+0.0000	+0.0001	03/15/94 401602	
	+0.0000	+0.0001	06/08/94 403362		
	+0.0001	+0.0001	08/30/94 405020		
	+0.0000	+0.0001	12/21/94 407297		
3203 LM-3 WB 2.1 MILES NNE	GROSS BETA	+0.0191	+0.0021	12/29/93 400103	
		+0.0206	+0.0023	01/04/94 400219	
		+0.0219	+0.0024	01/11/94 400322	
		+0.0214	+0.0023	01/20/94 400449	
		+0.0365	+0.0039	01/25/94 400608	
		+0.0197	+0.0022	02/01/94 400743	
		+0.0284	+0.0030	02/08/94 400851	
		+0.0088	+0.0013	02/15/94 400990	
		+0.0166	+0.0018	02/23/94 401154	
		+0.0178	+0.0020	03/01/94 401279	
		+0.0154	+0.0017	03/09/94 401421	

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 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3203 LM-3 WB	2.1 MILES NNE	GROSS BETA		
		+0.0187	+0.0021	03/15/94 401555
		+0.0149	+0.0017	03/22/94 401730
		+0.0127	+0.0015	03/29/94 401853
		+0.0156	+0.0017	04/05/94 401965
		+0.0104	+0.0012	04/12/94 402116
		+0.0153	+0.0017	04/19/94 402251
		+0.0179	+0.0020	04/26/94 402488
		+0.0138	+0.0016	05/03/94 402608
		+0.0155	+0.0017	05/10/94 402773
		+0.0146	+0.0016	05/17/94 402923
		+0.0120	+0.0014	05/24/94 403043
		+0.0183	+0.0020	05/31/94 403165
		+0.0157	+0.0018	06/07/94 403311
		+0.0165	+0.0018	06/14/94 403507
		+0.0152	+0.0017	06/21/94 403632
		+0.0151	+0.0017	06/29/94 403750
		+0.0170	+0.0019	07/05/94 403870
		+0.0095	+0.0012	07/12/94 404013
		+0.0116	+0.0014	07/19/94 404160
		+0.0155	+0.0017	07/27/94 404267
		+0.0157	+0.0018	08/02/94 404397
		+0.0149	+0.0017	08/09/94 404556
		+0.0212	+0.0023	08/16/94 404713
		+0.0200	+0.0022	08/23/94 404843
		+0.0272	+0.0029	08/30/94 404972
		+0.0211	+0.0023	09/07/94 405159
		+0.0363	+0.0038	09/13/94 405289
		+0.0296	+0.0031	09/20/94 405406
		+0.0222	+0.0024	09/27/94 405585
		+0.0242	+0.0026	10/04/94 405744
		+0.0204	+0.0022	10/11/94 405865
		+0.0158	+0.0018	10/18/94 405978
		+0.0225	+0.0024	10/25/94 406110
		+0.0218	+0.0024	11/01/94 406289
		+0.0222	+0.0025	11/07/94 406473
		+0.0258	+0.0027	11/16/94 406594
		+0.0244	+0.0027	11/21/94 406752
		+0.0209	+0.0023	11/29/94 406898

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3203 LM-3 WB 2.1 MILES NNE	GROSS BETA	+0.0238	+0.0026	12/06/94 407014	
		+0.0212	+0.0023	12/13/94 407120	
		+0.0255	+0.0028	12/20/94 407249	
		+0.0339	+0.0036	12/27/94 407436	
	GAMMA SCAN (GELI)	BE-7	+0.0688	+0.0057	01/20/94 400484
			+0.0750	+0.0086	02/15/94 401025
			+0.0912	+0.0095	03/15/94 401603
			+0.1048	+0.0074	04/12/94 402151
			+0.1250	+0.0115	05/10/94 402808
			+0.0617	+0.0053	06/07/94 403363
			+0.0858	+0.0076	07/05/94 403906
			+0.0802	+0.0082	08/02/94 404433
			+0.0919	+0.0087	08/30/94 405021
			+0.0906	+0.0075	09/27/94 405622
			+0.1030	+0.0106	10/25/94 406149
			+0.1098	+0.0073	11/21/94 406788
			+0.0825	+0.0088	12/20/94 407298
	BI-214	BE-7	+0.1018	+0.0148	12/27/94 407436
			+0.0014	+0.0009	07/05/94 403906
			+0.0044	+0.0009	08/02/94 404433
			+0.0007	+0.0009	08/30/94 405021
			+0.0004	+0.0007	09/27/94 405622
			+0.0067	+0.0012	11/21/94 406788
	PB-214	BE-7	+0.0089	+0.0014	12/20/94 407298
			+0.0050	+0.0036	12/27/94 407436
			+0.0047	+0.0011	02/15/94 401025
			+0.0033	+0.0008	08/02/94 404433
+0.0017			+0.0008	08/30/94 405021	
+0.0037			+0.0010	10/25/94 406149	
+0.0067			+0.0010	11/21/94 406788	
+0.0081			+0.0017	12/20/94 407298	
SR 89	BE-7	+0.0284	+0.0046	12/27/94 407436	
		+0.0003	+0.0002	03/15/94 401604	
		+0.0002	+0.0002	06/07/94 403364	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3203 LM-3 WB 2.1 MILES NNE	SR 89	+0.0000	+0.0003	08/30/94 405022	
		+0.0002	+0.0003	12/20/94 407299	
	SR 90	+0.0000	+0.0001	03/15/94 401604	
		+0.0000	+0.0001	06/07/94 403364	
		+0.0001	+0.0001	08/30/94 405022	
		+0.0000	+0.0001	12/20/94 407299	
	3204 LM-4 WB 0.9 MILES SE	GROSS BETA	+0.0195	+0.0021	12/29/93 400107
			+0.0186	+0.0021	01/04/94 400222
			+0.0216	+0.0024	01/11/94 400324
			+0.0228	+0.0024	01/20/94 400451
+0.0359			+0.0039	01/25/94 400612	
+0.0179			+0.0020	02/01/94 400746	
+0.0260			+0.0028	02/08/94 400853	
+0.0108			+0.0013	02/15/94 400992	
+0.0166			+0.0019	02/23/94 401157	
+0.0185			+0.0021	03/01/94 401282	
+0.0166			+0.0018	03/09/94 401423	
+0.0217			+0.0024	03/15/94 401557	
+0.0161			+0.0018	03/22/94 401733	
+0.0125			+0.0015	03/29/94 401856	
+0.0134			+0.0016	04/05/94 401967	
+0.0112			+0.0013	04/12/94 402118	
+0.0148			+0.0017	04/19/94 402254	
+0.0181			+0.0020	04/26/94 402491	
+0.0121			+0.0014	05/03/94 402610	
+0.0143			+0.0016	05/10/94 402775	
+0.0152			+0.0017	05/17/94 402926	
+0.0139			+0.0016	05/24/94 403046	
+0.0204			+0.0022	05/31/94 403167	
+0.0183	+0.0020	06/07/94 403314			
+0.0152	+0.0017	06/14/94 403511			
+0.0164	+0.0018	06/21/94 403635			
+0.0184	+0.0020	06/29/94 403752			
+0.0181	+0.0020	07/05/94 403872			

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3204 LM-4 WB 0.9 MILES SE	GROSS BETA	+0.0103	+0.0013	07/12/94 404016		
		+0.0121	+0.0014	07/19/94 404163		
		+0.0179	+0.0020	07/27/94 404269		
		+0.0177	+0.0020	08/02/94 404399		
		+0.0149	+0.0017	08/09/94 404559		
		+0.0208	+0.0023	08/16/94 404716		
		+0.0193	+0.0021	08/23/94 404845		
		+0.0285	+0.0030	08/30/94 404974		
		+0.0209	+0.0023	09/07/94 405162		
		+0.0389	+0.0041	09/13/94 405292		
		+0.0342	+0.0036	09/20/94 405408		
		+0.0218	+0.0024	09/27/94 405587		
		+0.0292	+0.0031	10/04/94 405747		
		+0.0210	+0.0023	10/11/94 405868		
		+0.0166	+0.0019	10/18/94 405980		
		+0.0220	+0.0024	10/25/94 406112		
		+0.0234	+0.0025	11/02/94 406292		
		+0.0207	+0.0023	11/07/94 406476		
		+0.0243	+0.0026	11/16/94 406596		
		+0.0267	+0.0029	11/21/94 406754		
		+0.0225	+0.0024	11/29/94 406902		
		+0.0247	+0.0026	12/06/94 407017		
		+0.0227	+0.0025	12/13/94 407122		
		+0.0234	+0.0025	12/20/94 407251		
		+0.0302	+0.0032	12/27/94 407438		
			GAMMA SCAN (GELI)			
			BE-7	+0.0698	+0.0065	01/20/94 400485
				+0.0746	+0.0074	02/15/94 401026
				+0.1156	+0.0086	03/15/94 401605
				+0.0982	+0.0069	04/12/94 402152
				+0.1085	+0.0099	05/10/94 402809
				+0.0731	+0.0071	06/07/94 403365
				+0.0842	+0.0080	07/05/94 403907
				+0.0776	+0.0078	08/02/94 404434
		+0.0981	+0.0077	08/30/94 405023		
		+0.1099	+0.0082	09/27/94 405623		
		+0.0979	+0.0101	10/25/94 406150		

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 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

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	+0.1076	+0.0088	11/21/94 406789
		+0.0650	+0.0054	12/20/94 407300
	BI-214	+0.0831	+0.0174	12/27/94 407438
		+0.0010	+0.0008	01/20/94 400485
		+0.0015	+0.0011	02/15/94 401026
		+0.0002	+0.0029	07/05/94 403907
		+0.0024	+0.0008	11/21/94 406789
		+0.0061	+0.0013	12/20/94 407300
		+0.0113	+0.0054	12/27/94 407438
		K-40 PB-214	+0.0062	+0.0056
	+0.0006		+0.0007	02/15/94 401026
	+0.0007		+0.0008	07/05/94 403907
	+0.0030		+0.0007	11/21/94 406789
	SR 89	+0.0056	+0.0011	12/20/94 407300
		+0.0048	+0.0039	12/27/94 407438
		+0.0000	+0.0002	03/15/94 401606
		-0.0001	+0.0002	06/07/94 403366
	SR 90	+0.0003	+0.0004	08/30/94 405024
		+0.0000	+0.0003	12/20/94 407301
		+0.0001	+0.0001	03/15/94 401606
+0.0001		+0.0001	06/07/94 403366	
3205 RM-3 WB 15 MILES NNW	GROSS BETA	+0.0000	+0.0001	08/30/94 405024
		+0.0001	+0.0001	12/20/94 407301
		+0.0190	+0.0021	12/28/93 400110
		+0.0165	+0.0019	01/04/94 400225
		+0.0198	+0.0022	01/11/94 400326
		+0.0182	+0.0020	01/19/94 400453
		+0.0280	+0.0030	01/25/94 400615
		+0.0168	+0.0019	02/01/94 400749
		+0.0273	+0.0029	02/08/94 400855
		+0.0084	+0.0011	02/15/94 400994
+0.0156	+0.0017	02/23/94 401160		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3205 RM-3 WB	15 MILES NNW	GROSS BETA		
		+0.0156	+0.0017	03/02/94 401285
		+0.0170	+0.0019	03/08/94 401425
		+0.0170	+0.0019	03/15/94 401559
		+0.0154	+0.0018	03/22/94 401736
		+0.0120	+0.0014	03/29/94 401859
		+0.0143	+0.0016	04/05/94 401969
		+0.0117	+0.0014	04/12/94 402120
		+0.0149	+0.0017	04/19/94 402258
		+0.0191	+0.0021	04/26/94 402494
		+0.0128	+0.0015	05/04/94 402612
		+0.0147	+0.0017	05/10/94 402777
		+0.0141	+0.0016	05/17/94 402929
		+0.0123	+0.0014	05/24/94 403049
		+0.0165	+0.0019	05/31/94 403169
		+0.0161	+0.0018	06/07/94 403317
		+0.0167	+0.0019	06/14/94 403514
		+0.0167	+0.0019	06/21/94 403638
		+0.0169	+0.0019	06/28/94 403754
		+0.0174	+0.0019	07/05/94 403874
		+0.0099	+0.0012	07/12/94 404019
		+0.0106	+0.0013	07/19/94 404166
		+0.0171	+0.0019	07/26/94 404271
		+0.0174	+0.0019	08/02/94 404401
		+0.0159	+0.0018	08/09/94 404562
		+0.0227	+0.0025	08/16/94 404719
		+0.0207	+0.0023	08/23/94 404847
		+0.0233	+0.0025	08/30/94 404976
		+0.0179	+0.0020	09/06/94 405165
		+0.0342	+0.0036	09/13/94 405295
		+0.0282	+0.0030	09/20/94 405410
		+0.0199	+0.0022	09/27/94 405589
		+0.0241	+0.0026	10/04/94 405750
		+0.0216	+0.0024	10/11/94 405871
		+0.0131	+0.0015	10/18/94 405982
		+0.0231	+0.0025	10/25/94 406114
		+0.0211	+0.0023	11/01/94 406295
		+0.0196	+0.0022	11/07/94 406479
		+0.0236	+0.0025	11/15/94 406598

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN AIR FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3205 RM-3 WB 15 MILES NNW	GROSS BETA	+0.0248	+0.0027	11/21/94 406756	
		+0.0186	+0.0020	11/29/94 406905	
		+0.0211	+0.0023	12/06/94 407020	
		+0.0204	+0.0022	12/13/94 407124	
		+0.0267	+0.0029	12/20/94 407253	
		+0.0315	+0.0033	12/27/94 407440	
	GAMMA SCAN (GELI)	AC-228 BE-7	+0.0010	+0.0015	11/21/94 406790
			+0.0656	+0.0054	01/19/94 400486
			+0.0682	+0.0073	02/15/94 401027
		+0.0975	+0.0087	03/15/94 401607	
		+0.0968	+0.0079	04/12/94 402153	
		+0.1099	+0.0079	05/10/94 402810	
		+0.0754	+0.0066	06/07/94 403367	
		+0.0895	+0.0075	07/05/94 403908	
		+0.0735	+0.0056	08/02/94 404435	
		+0.0883	+0.0073	08/30/94 405025	
		+0.0927	+0.0095	09/27/94 405624	
		+0.1045	+0.0086	10/25/94 406151	
		+0.1140	+0.0109	11/21/94 406790	
		+0.0811	+0.0061	12/20/94 407302	
		+0.1077	+0.0198	12/27/94 407440	
		BI-214	+0.0009	+0.0007	01/19/94 400486
			+0.0008	+0.0008	08/30/94 405025
			+0.0035	+0.0009	11/21/94 406790
			+0.0048	+0.0012	12/20/94 407302
			+0.0128	+0.0048	12/27/94 407440
			+0.0042	+0.0068	11/21/94 406790
		K-40 PB-212 PB-214	+0.0001	+0.0005	08/02/94 404435
			+0.0021	+0.0008	04/12/94 402153
			+0.0018	+0.0013	08/02/94 404435
			+0.0045	+0.0012	11/21/94 406790
			+0.0044	+0.0009	12/20/94 407302
			+0.0088	+0.0038	12/27/94 407440
TL-208 SR 89	+0.0006	+0.0003	08/02/94 404435		
	+0.0000	+0.0002	06/07/94 403368		

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 PCI/M3 - 0.037 BQ/M3  
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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3205 RM-3 WB 15 MILES NNW	SR 89			
		+0.0003	+0.0004	08/30/94 405026
		+0.0002	+0.0003	12/20/94 407303
	SR 90			
		+0.0000	+0.0001	06/07/94 403368
		+0.0000	+0.0001	08/30/94 405026
	+0.0000	+0.0002	12/20/94 407303	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR	DATE	LAB NO
			TERM	COLLECTED	
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		12/28/93	400061
		NO ACTIVITY DETECTED		01/04/94	400163
		NO ACTIVITY DETECTED		01/11/94	400294
		NO ACTIVITY DETECTED		01/19/94	400398
		NO ACTIVITY DETECTED		01/25/94	400567
		NO ACTIVITY DETECTED		02/01/94	400687
		NO ACTIVITY DETECTED		02/08/94	400823
		NO ACTIVITY DETECTED		02/15/94	400939
		NO ACTIVITY DETECTED		02/22/94	401112
		NO ACTIVITY DETECTED		03/08/94	401393
		NO ACTIVITY DETECTED		03/22/94	401689
		NO ACTIVITY DETECTED		03/29/94	401795
		NO ACTIVITY DETECTED		04/05/94	401937
		NO ACTIVITY DETECTED		04/12/94	402065
		NO ACTIVITY DETECTED		04/19/94	402210
		NO ACTIVITY DETECTED		05/04/94	402580
		NO ACTIVITY DETECTED		05/10/94	402712
		NO ACTIVITY DETECTED		05/17/94	402881
		NO ACTIVITY DETECTED		05/24/94	402983
		NO ACTIVITY DETECTED		05/31/94	403137
		NO ACTIVITY DETECTED		06/07/94	403251
		NO ACTIVITY DETECTED		06/28/94	403722
		NO ACTIVITY DETECTED		07/05/94	403820
		NO ACTIVITY DETECTED		07/12/94	403971
		NO ACTIVITY DETECTED		07/19/94	404103
		NO ACTIVITY DETECTED		07/26/94	404239
		NO ACTIVITY DETECTED		08/02/94	404346
		NO ACTIVITY DETECTED		08/16/94	404654
		NO ACTIVITY DETECTED		08/23/94	404815
		NO ACTIVITY DETECTED		08/30/94	404921
		NO ACTIVITY DETECTED		09/06/94	405116
		NO ACTIVITY DETECTED		09/13/94	405232
		NO ACTIVITY DETECTED		09/20/94	405378
NO ACTIVITY DETECTED		09/27/94	405535		
NO ACTIVITY DETECTED		10/11/94	405808		
NO ACTIVITY DETECTED		10/17/94	405950		
NO ACTIVITY DETECTED		10/25/94	406059		
NO ACTIVITY DETECTED		11/01/94	406219		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI)				
		NO ACTIVITY DETECTED	11/07/94	406414	
		NO ACTIVITY DETECTED	12/06/94	406957	
	BI-214	+0.0149	+0.0084	10/04/94 405702	
		+0.0312	+0.0083	11/29/94 406856	
		+0.0126	+0.0086	12/27/94 407408	
	K-40	+0.2105	+0.0496	10/04/94 405702	
	PB-212	+0.0075	+0.0034	06/14/94 403466	
	PB-214	+0.0036	+0.0101	03/01/94 401219	
		+0.0012	+0.0048	03/15/94 401503	
		+0.0122	+0.0063	04/26/94 402377	
		+0.0158	+0.0060	06/21/94 403574	
		+0.0073	+0.0054	08/09/94 404515	
		+0.0157	+0.0049	10/04/94 405702	
		+0.0200	+0.0076	11/15/94 406566	
		+0.0142	+0.0097	11/21/94 406686	
		+0.0297	+0.0081	11/29/94 406856	
		+0.0142	+0.0061	12/13/94 407092	
		+0.0109	+0.0051	12/20/94 407197	
		+0.0023	+0.0102	12/27/94 407408	
	3101 LM1 ENV DATA STA 0.5 MILES SSW	GAMMA SCAN (GELI)			
			NO ACTIVITY DETECTED	12/29/93	400084
			NO ACTIVITY DETECTED	01/04/94	400190
		NO ACTIVITY DETECTED	01/11/94	400310	
		NO ACTIVITY DETECTED	01/19/94	400431	
		NO ACTIVITY DETECTED	01/25/94	400590	
		NO ACTIVITY DETECTED	02/01/94	400714	
		NO ACTIVITY DETECTED	02/08/94	400839	
		NO ACTIVITY DETECTED	02/15/94	400972	
		NO ACTIVITY DETECTED	02/22/94	401135	
		NO ACTIVITY DETECTED	03/01/94	401247	
		NO ACTIVITY DETECTED	03/09/94	401409	
		NO ACTIVITY DETECTED	03/15/94	401538	
		NO ACTIVITY DETECTED	03/22/94	401712	
		NO ACTIVITY DETECTED	03/29/94	401822	
		NO ACTIVITY DETECTED	04/05/94	401953	
		NO ACTIVITY DETECTED	04/12/94	402099	
	NO ACTIVITY DETECTED	04/19/94	402233		

TENNESSEE VALLEY AUTHORITY  
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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION

ANALYSIS  
 (NUCLIDE)

ACTIVITY

ERROR DATE  
 TERM COLLECTED LAB NO

3101 LM1 ENV DATA STA 0.5 MILES SSW

GAMMA SCAN (GELI)

NO ACTIVITY DETECTED	04/26/94	402444
NO ACTIVITY DETECTED	05/03/94	402596
NO ACTIVITY DETECTED	05/10/94	402756
NO ACTIVITY DETECTED	05/17/94	402904
NO ACTIVITY DETECTED	05/31/94	403153
NO ACTIVITY DETECTED	06/07/94	403287
NO ACTIVITY DETECTED	06/14/94	403489
NO ACTIVITY DETECTED	06/21/94	403601
NO ACTIVITY DETECTED	06/28/94	403738
NO ACTIVITY DETECTED	07/05/94	403853
NO ACTIVITY DETECTED	07/12/94	403994
NO ACTIVITY DETECTED	07/19/94	404130
NO ACTIVITY DETECTED	07/27/94	404255
NO ACTIVITY DETECTED	08/02/94	404380
NO ACTIVITY DETECTED	08/09/94	404538
NO ACTIVITY DETECTED	08/16/94	404680
NO ACTIVITY DETECTED	08/30/94	404955
NO ACTIVITY DETECTED	09/07/94	405139
NO ACTIVITY DETECTED	09/13/94	405258
NO ACTIVITY DETECTED	09/20/94	405394
NO ACTIVITY DETECTED	09/27/94	405567
NO ACTIVITY DETECTED	10/11/94	405835
NO ACTIVITY DETECTED	10/17/94	405966
NO ACTIVITY DETECTED	10/25/94	406093
NO ACTIVITY DETECTED	11/01/94	406257
NO ACTIVITY DETECTED	11/07/94	406440
NO ACTIVITY DETECTED	11/15/94	406582
NO ACTIVITY DETECTED	11/21/94	406734
NO ACTIVITY DETECTED	12/06/94	406984
BI-214 +0.0064	+0.0060 08/23/94	404831
+0.0131	+0.0081 10/04/94	405725
+0.0208	+0.0094 12/20/94	407231
PB-214 +0.0003	+0.0075 05/24/94	403010
+0.0129	+0.0075 11/29/94	406880
+0.0554	+0.0189 12/13/94	407108
+0.0376	+0.0122 12/20/94	407231
+0.0162	+0.0091 12/27/94	407424

3102 LM2 N. WBSP GATE 0.5 MILES N

GAMMA SCAN (GELI)

NO ACTIVITY DETECTED 12/29/93 400088

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3102 LM2 N. WBSP GATE	0.5 MILES N	GAMMA SCAN (GELI)		
		NO ACTIVITY DETECTED	01/04/94	400194
		NO ACTIVITY DETECTED	01/11/94	400313
		NO ACTIVITY DETECTED	01/25/94	400594
		NO ACTIVITY DETECTED	02/01/94	400718
		NO ACTIVITY DETECTED	02/15/94	400975
		NO ACTIVITY DETECTED	02/22/94	401139
		NO ACTIVITY DETECTED	03/01/94	401251
		NO ACTIVITY DETECTED	03/09/94	401412
		NO ACTIVITY DETECTED	03/15/94	401541
		NO ACTIVITY DETECTED	03/22/94	401716
		NO ACTIVITY DETECTED	04/05/94	401956
		NO ACTIVITY DETECTED	04/12/94	402102
		NO ACTIVITY DETECTED	04/19/94	402237
		NO ACTIVITY DETECTED	04/26/94	402448
		NO ACTIVITY DETECTED	05/10/94	402759
		NO ACTIVITY DETECTED	05/17/94	402908
		NO ACTIVITY DETECTED	05/24/94	403014
		NO ACTIVITY DETECTED	05/31/94	403156
		NO ACTIVITY DETECTED	06/07/94	403291
		NO ACTIVITY DETECTED	06/14/94	403493
		NO ACTIVITY DETECTED	06/21/94	403605
		NO ACTIVITY DETECTED	07/05/94	403856
		NO ACTIVITY DETECTED	07/12/94	403998
		NO ACTIVITY DETECTED	07/19/94	404134
		NO ACTIVITY DETECTED	07/27/94	404258
		NO ACTIVITY DETECTED	08/02/94	404383
		NO ACTIVITY DETECTED	08/09/94	404542
		NO ACTIVITY DETECTED	08/16/94	404684
		NO ACTIVITY DETECTED	08/23/94	404834
		NO ACTIVITY DETECTED	08/30/94	404958
		NO ACTIVITY DETECTED	09/07/94	405144
		NO ACTIVITY DETECTED	09/13/94	405262
		NO ACTIVITY DETECTED	10/17/94	405969
		NO ACTIVITY DETECTED	10/25/94	406096
		NO ACTIVITY DETECTED	11/07/94	406444
		NO ACTIVITY DETECTED	11/16/94	406585
		NO ACTIVITY DETECTED	11/29/94	406884
		NO ACTIVITY DETECTED	12/06/94	406988

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3102 LM2 N. WBSP GATE 0.5 MILES N	GAMMA SCAN (GELI) BI-214	+0.0019	+0.0052	01/19/94 400434	
		+0.0099	+0.0100	05/03/94 402599	
		+0.0044	+0.0070	09/20/94 405397	
		+0.0219	+0.0121	11/21/94 406737	
		+0.0248	+0.0082	12/27/94 407427	
	K-40	+0.2955	+0.0540	02/08/94 400842	
		+0.2133	+0.0456	06/28/94 403741	
		+0.2667	+0.0955	11/21/94 406737	
	PB-214	+0.0040	+0.0040	03/29/94 401826	
		+0.0094	+0.0043	11/01/94 406261	
		+0.0209	+0.0090	11/21/94 406737	
		+0.0124	+0.0077	12/13/94 407111	
		+0.0201	+0.0076	12/20/94 407234	
		+0.0261	+0.0198	12/27/94 407427	
	3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	12/28/93	400091
			NO ACTIVITY DETECTED	01/04/94	400197
			NO ACTIVITY DETECTED	01/11/94	400315
NO ACTIVITY DETECTED			01/25/94	400597	
NO ACTIVITY DETECTED			02/08/94	400844	
NO ACTIVITY DETECTED			02/23/94	401142	
NO ACTIVITY DETECTED			03/08/94	401414	
NO ACTIVITY DETECTED			03/15/94	401543	
NO ACTIVITY DETECTED			03/22/94	401719	
NO ACTIVITY DETECTED			03/29/94	401829	
NO ACTIVITY DETECTED			04/12/94	402104	
NO ACTIVITY DETECTED			04/19/94	402240	
NO ACTIVITY DETECTED			04/26/94	402451	
NO ACTIVITY DETECTED			05/04/94	402601	
NO ACTIVITY DETECTED			05/10/94	402761	
NO ACTIVITY DETECTED			05/17/94	402912	
NO ACTIVITY DETECTED			05/31/94	403158	
NO ACTIVITY DETECTED			06/07/94	403294	
NO ACTIVITY DETECTED			06/14/94	403496	
NO ACTIVITY DETECTED			06/21/94	403608	
NO ACTIVITY DETECTED			06/28/94	403743	
NO ACTIVITY DETECTED			07/05/94	403858	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)					
		NO ACTIVITY DETECTED		07/12/94	404001	
		NO ACTIVITY DETECTED		07/19/94	404137	
		NO ACTIVITY DETECTED		07/26/94	404260	
		NO ACTIVITY DETECTED		08/02/94	404385	
		NO ACTIVITY DETECTED		08/09/94	404545	
		NO ACTIVITY DETECTED		08/16/94	404687	
		NO ACTIVITY DETECTED		08/23/94	404836	
		NO ACTIVITY DETECTED		08/30/94	404960	
		NO ACTIVITY DETECTED		09/06/94	405147	
		NO ACTIVITY DETECTED		09/13/94	405265	
		NO ACTIVITY DETECTED		09/20/94	405399	
		NO ACTIVITY DETECTED		09/27/94	405572	
		NO ACTIVITY DETECTED		10/04/94	405732	
		NO ACTIVITY DETECTED		10/11/94	405842	
		NO ACTIVITY DETECTED		10/18/94	405971	
		NO ACTIVITY DETECTED		10/25/94	406098	
		NO ACTIVITY DETECTED		11/01/94	406264	
		NO ACTIVITY DETECTED		11/07/94	406447	
		NO ACTIVITY DETECTED		11/15/94	406587	
		NO ACTIVITY DETECTED		11/21/94	406739	
		NO ACTIVITY DETECTED		11/29/94	406887	
		NO ACTIVITY DETECTED		12/06/94	406991	
		NO ACTIVITY DETECTED		12/13/94	407113	
		NO ACTIVITY DETECTED		12/20/94	407236	
		BI-214	+0.0171	+0.0080	02/01/94	400721
		K-40	+0.1757	+0.0414	01/19/94	400436
			+0.1857	+0.0356	02/15/94	400977
			+0.2009	+0.0500	04/05/94	401958
		PB-212	+0.0054	+0.0029	03/02/94	401254
		PB-214	+0.0171	+0.0057	02/01/94	400721
			+0.0181	+0.0052	05/24/94	403017
			+0.0150	+0.0078	12/27/94	407429
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GAMMA SCAN (GELI)					
		NO ACTIVITY DETECTED		12/28/93	400094	
		NO ACTIVITY DETECTED		01/04/94	400200	
		NO ACTIVITY DETECTED		01/11/94	400317	
		NO ACTIVITY DETECTED		01/25/94	400600	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GAMMA SCAN (GELI)		
		NO ACTIVITY DETECTED	02/15/94	400979
		NO ACTIVITY DETECTED	02/23/94	401145
		NO ACTIVITY DETECTED	03/08/94	401416
		NO ACTIVITY DETECTED	03/15/94	401545
		NO ACTIVITY DETECTED	03/22/94	401722
		NO ACTIVITY DETECTED	03/29/94	401832
		NO ACTIVITY DETECTED	04/05/94	401960
		NO ACTIVITY DETECTED	04/12/94	402106
		NO ACTIVITY DETECTED	04/19/94	402243
		NO ACTIVITY DETECTED	04/26/94	402454
		NO ACTIVITY DETECTED	05/04/94	402603
		NO ACTIVITY DETECTED	05/10/94	402763
		NO ACTIVITY DETECTED	05/17/94	402915
		NO ACTIVITY DETECTED	05/24/94	403020
		NO ACTIVITY DETECTED	05/31/94	403160
		NO ACTIVITY DETECTED	06/07/94	403297
		NO ACTIVITY DETECTED	06/14/94	403499
		NO ACTIVITY DETECTED	06/21/94	403611
		NO ACTIVITY DETECTED	06/28/94	403745
		NO ACTIVITY DETECTED	07/05/94	403860
		NO ACTIVITY DETECTED	07/12/94	404004
		NO ACTIVITY DETECTED	07/19/94	404140
		NO ACTIVITY DETECTED	07/26/94	404262
		NO ACTIVITY DETECTED	08/02/94	404387
		NO ACTIVITY DETECTED	08/23/94	404838
		NO ACTIVITY DETECTED	08/30/94	404962
		NO ACTIVITY DETECTED	09/06/94	405151
		NO ACTIVITY DETECTED	09/13/94	405268
		NO ACTIVITY DETECTED	10/04/94	405735
		NO ACTIVITY DETECTED	10/11/94	405845
		NO ACTIVITY DETECTED	10/18/94	405973
		NO ACTIVITY DETECTED	11/01/94	406267
		NO ACTIVITY DETECTED	11/07/94	406450
		NO ACTIVITY DETECTED	11/15/94	406589
		NO ACTIVITY DETECTED	12/06/94	406994
		NO ACTIVITY DETECTED	12/20/94	407238
	BI-214	+0.0022	+0.0059	08/09/94 404548
		+0.0169	+0.0055	11/29/94 406890

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GAMMA SCAN (GELI) BI-214 PB-212 PB-214	+0.0349	+0.0101	12/27/94	407431	
		+0.0071	+0.0087	02/01/94	400724	
		+0.0196	+0.0142	02/01/94	400724	
		+0.0179	+0.0062	02/08/94	400846	
		+0.0088	+0.0042	08/16/94	404690	
		+0.0221	+0.0063	09/20/94	405401	
		+0.0159	+0.0111	09/27/94	405574	
		+0.0044	+0.0047	10/25/94	406100	
		+0.0353	+0.0114	11/21/94	406741	
		+0.0230	+0.0077	11/29/94	406890	
		+0.0405	+0.0116	12/13/94	407115	
		+0.0325	+0.0087	12/27/94	407431	
		3108 PM-4 TEN MILE 7.8 M. NE/ENE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	01/05/94	400203
				NO ACTIVITY DETECTED	01/11/94	400319
				NO ACTIVITY DETECTED	01/25/94	400603
NO ACTIVITY DETECTED	02/02/94			400727		
NO ACTIVITY DETECTED	02/09/94			400848		
NO ACTIVITY DETECTED	02/16/94			400981		
NO ACTIVITY DETECTED	02/23/94			401148		
NO ACTIVITY DETECTED	03/02/94			401260		
NO ACTIVITY DETECTED	03/09/94			401418		
NO ACTIVITY DETECTED	03/15/94			401547		
NO ACTIVITY DETECTED	03/22/94			401725		
NO ACTIVITY DETECTED	03/29/94			401835		
NO ACTIVITY DETECTED	04/05/94			401962		
NO ACTIVITY DETECTED	04/12/94			402108		
NO ACTIVITY DETECTED	04/19/94			402246		
NO ACTIVITY DETECTED	05/03/94			402605		
NO ACTIVITY DETECTED	05/11/94			402765		
NO ACTIVITY DETECTED	05/17/94			402918		
NO ACTIVITY DETECTED	05/24/94			403023		
NO ACTIVITY DETECTED	06/01/94			403162		
NO ACTIVITY DETECTED	06/08/94			403300		
NO ACTIVITY DETECTED	06/14/94			403502		
NO ACTIVITY DETECTED	06/22/94			403614		
NO ACTIVITY DETECTED	06/29/94	403747				

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	07/05/94	403862		
		NO ACTIVITY DETECTED	07/12/94	404008		
		NO ACTIVITY DETECTED	07/19/94	404143		
		NO ACTIVITY DETECTED	07/27/94	404264		
		NO ACTIVITY DETECTED	08/03/94	404389		
		NO ACTIVITY DETECTED	08/09/94	404551		
		NO ACTIVITY DETECTED	08/17/94	404693		
		NO ACTIVITY DETECTED	08/24/94	404840		
		NO ACTIVITY DETECTED	08/30/94	404964		
		NO ACTIVITY DETECTED	09/07/94	405154		
		NO ACTIVITY DETECTED	09/27/94	405576		
		NO ACTIVITY DETECTED	10/11/94	405848		
		NO ACTIVITY DETECTED	10/18/94	405975		
		NO ACTIVITY DETECTED	10/26/94	406102		
		NO ACTIVITY DETECTED	11/02/94	406270		
		NO ACTIVITY DETECTED	11/08/94	406453		
		NO ACTIVITY DETECTED	11/22/94	406743		
		NO ACTIVITY DETECTED	11/30/94	406893		
		NO ACTIVITY DETECTED	12/06/94	406997		
		NO ACTIVITY DETECTED	12/20/94	407240		
		BI-214	+0.0155	+0.0059	01/20/94	400440
			+0.0071	+0.0070	09/20/94	405403
			+0.0152	+0.0102	10/05/94	405739
			+0.0124	+0.0058	12/14/94	407117
			+0.0210	+0.0085	12/27/94	407433
		K-40	+0.1811	+0.0409	04/26/94	402457
			+0.1258	+0.0466	12/14/94	407117
		PB-214	+0.0028	+0.0045	12/29/93	400097
			+0.0054	+0.0057	09/14/94	405271
			+0.0120	+0.0062	10/05/94	405739
			+0.0129	+0.0064	11/16/94	406591
			+0.0123	+0.0051	12/14/94	407117
			+0.0208	+0.0097	12/27/94	407433
3109 PM5 DECATUR 6.25 MILES S	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	12/29/93	400101		
		NO ACTIVITY DETECTED	01/05/94	400206		
		NO ACTIVITY DETECTED	01/11/94	400321		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION

ANALYSIS  
 (NUCLIDE)

ACTIVITY

ERROR DATE  
 TERM COLLECTED LAB NO

3109 PMS DECATUR

6.25 MILES S

GAMMA SCAN (GELI)

NO ACTIVITY DETECTED	01/20/94	400442
NO ACTIVITY DETECTED	02/01/94	400730
NO ACTIVITY DETECTED	02/09/94	400850
NO ACTIVITY DETECTED	02/16/94	400983
NO ACTIVITY DETECTED	02/23/94	401152
NO ACTIVITY DETECTED	03/01/94	401263
NO ACTIVITY DETECTED	03/09/94	401420
NO ACTIVITY DETECTED	03/15/94	401549
NO ACTIVITY DETECTED	03/22/94	40172
NO ACTIVITY DETECTED	04/05/94	401964
NO ACTIVITY DETECTED	04/12/94	402110
NO ACTIVITY DETECTED	04/19/94	402249
NO ACTIVITY DETECTED	04/26/94	402460
NO ACTIVITY DETECTED	05/03/94	402607
NO ACTIVITY DETECTED	05/11/94	402767
NO ACTIVITY DETECTED	05/17/94	402921
NO ACTIVITY DETECTED	05/25/94	403026
NO ACTIVITY DETECTED	06/01/94	403164
NO ACTIVITY DETECTED	06/08/94	403303
NO ACTIVITY DETECTED	06/14/94	403505
NO ACTIVITY DETECTED	06/22/94	403617
NO ACTIVITY DETECTED	06/29/94	403749
NO ACTIVITY DETECTED	07/06/94	403864
NO ACTIVITY DETECTED	07/12/94	404011
NO ACTIVITY DETECTED	07/20/94	404146
NO ACTIVITY DETECTED	07/27/94	404266
NO ACTIVITY DETECTED	08/02/94	404391
NO ACTIVITY DETECTED	08/09/94	404554
NO ACTIVITY DETECTED	08/16/94	404696
NO ACTIVITY DETECTED	08/24/94	404842
NO ACTIVITY DETECTED	08/30/94	404966
NO ACTIVITY DETECTED	09/07/94	405157
NO ACTIVITY DETECTED	09/14/94	405274
NO ACTIVITY DETECTED	09/20/94	405405
NO ACTIVITY DETECTED	09/27/94	405578
NO ACTIVITY DETECTED	10/11/94	405851
NO ACTIVITY DETECTED	10/18/94	405977
NO ACTIVITY DETECTED	10/26/94	406104

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3109 PM5 DECATUR 6.25 MILES S	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	11/08/94	406456		
		NO ACTIVITY DETECTED	11/16/94	406593		
		NO ACTIVITY DETECTED	11/22/94	406745		
		NO ACTIVITY DETECTED	12/07/94	407000		
		NO ACTIVITY DETECTED	12/14/94	407119		
		NO ACTIVITY DETECTED	12/21/94	407242		
		NO ACTIVITY DETECTED	12/27/94	407435		
		BI-214	+0.0186	+0.0074	10/05/94	405742
		K-40	+0.3791	+0.0793	01/26/94	400606
			+0.1252	+0.0477	03/29/94	401838
		PB-214	+0.0140	+0.0057	11/02/94	406273
			+0.0291	+0.0067	11/30/94	406896
		3203 LM-3 WB 2.1 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	12/29/93	400104
				NO ACTIVITY DETECTED	01/04/94	400220
				NO ACTIVITY DETECTED	01/11/94	400323
NO ACTIVITY DETECTED	01/20/94			400450		
NO ACTIVITY DETECTED	01/25/94			400609		
NO ACTIVITY DETECTED	02/08/94			400852		
NO ACTIVITY DETECTED	02/15/94			400991		
NO ACTIVITY DETECTED	02/23/94			401155		
NO ACTIVITY DETECTED	03/01/94			401280		
NO ACTIVITY DETECTED	03/09/94			401422		
NO ACTIVITY DETECTED	03/15/94			401556		
NO ACTIVITY DETECTED	03/22/94			401731		
NO ACTIVITY DETECTED	03/29/94			401854		
NO ACTIVITY DETECTED	04/05/94			401966		
NO ACTIVITY DETECTED	04/12/94			402117		
NO ACTIVITY DETECTED	04/19/94			402252		
NO ACTIVITY DETECTED	04/26/94			402489		
NO ACTIVITY DETECTED	05/03/94			402609		
NO ACTIVITY DETECTED	05/10/94			402774		
NO ACTIVITY DETECTED	05/24/94			403044		
NO ACTIVITY DETECTED	05/31/94			403166		
NO ACTIVITY DETECTED	06/07/94			403312		
NO ACTIVITY DETECTED	07/05/94			403871		
NO ACTIVITY DETECTED	07/12/94			404014		

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3203 LM-3 WB 2.1 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	07/19/94	404161		
		NO ACTIVITY DETECTED	07/27/94	404268		
		NO ACTIVITY DETECTED	08/02/94	404398		
		NO ACTIVITY DETECTED	08/09/94	404557		
		NO ACTIVITY DETECTED	08/16/94	404714		
		NO ACTIVITY DETECTED	08/23/94	404844		
		NO ACTIVITY DETECTED	08/30/94	404973		
		NO ACTIVITY DETECTED	09/07/94	405160		
		NO ACTIVITY DETECTED	09/13/94	405290		
		NO ACTIVITY DETECTED	09/20/94	405407		
		NO ACTIVITY DETECTED	09/27/94	405586		
		NO ACTIVITY DETECTED	10/04/94	405745		
		NO ACTIVITY DETECTED	10/11/94	405866		
		NO ACTIVITY DETECTED	10/18/94	405979		
		NO ACTIVITY DETECTED	10/25/94	406111		
		NO ACTIVITY DETECTED	11/01/94	406290		
		NO ACTIVITY DETECTED	11/07/94	406474		
		NO ACTIVITY DETECTED	11/16/94	406595		
		NO ACTIVITY DETECTED	11/21/94	406753		
		NO ACTIVITY DETECTED	11/29/94	406899		
		NO ACTIVITY DETECTED	12/06/94	407015		
		BI-214	+0.0166	+0.0064	06/21/94	403633
			+0.0323	+0.0105	12/13/94	407121
		PB-212	+0.0052	+0.0033	06/29/94	403751
		PB-214	+0.0357	+0.0138	02/01/94	400744
			+0.0129	+0.0066	05/17/94	402924
			+0.0124	+0.0066	06/14/94	403508
			+0.0242	+0.0115	12/13/94	407121
	+0.0066	+0.0090	12/20/94	407250		
	+0.0239	+0.0078	12/27/94	407437		
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	12/29/93	400108		
		NO ACTIVITY DETECTED	01/04/94	400223		
		NO ACTIVITY DETECTED	01/20/94	400452		
		NO ACTIVITY DETECTED	02/01/94	400747		
		NO ACTIVITY DETECTED	02/08/94	400854		
		NO ACTIVITY DETECTED	02/23/94	401158		
		NO ACTIVITY DETECTED				

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)		
		NO ACTIVITY DETECTED	03/01/94	401283
		NO ACTIVITY DETECTED	03/15/94	401558
		NO ACTIVITY DETECTED	03/22/94	401734
		NO ACTIVITY DETECTED	03/29/94	401857
		NO ACTIVITY DETECTED	04/05/94	401968
		NO ACTIVITY DETECTED	04/12/94	402119
		NO ACTIVITY DETECTED	04/19/94	402255
		NO ACTIVITY DETECTED	05/10/94	402776
		NO ACTIVITY DETECTED	05/17/94	402927
		NO ACTIVITY DETECTED	05/24/94	403047
		NO ACTIVITY DETECTED	05/31/94	403168
		NO ACTIVITY DETECTED	06/07/94	403315
		NO ACTIVITY DETECTED	06/14/94	403512
		NO ACTIVITY DETECTED	06/21/94	403636
		NO ACTIVITY DETECTED	06/29/94	403753
		NO ACTIVITY DETECTED	07/05/94	403873
		NO ACTIVITY DETECTED	07/19/94	404164
		NO ACTIVITY DETECTED	07/27/94	404270
		NO ACTIVITY DETECTED	08/02/94	404400
		NO ACTIVITY DETECTED	08/09/94	404560
		NO ACTIVITY DETECTED	08/16/94	404717
		NO ACTIVITY DETECTED	08/23/94	404846
		NO ACTIVITY DETECTED	09/07/94	405163
		NO ACTIVITY DETECTED	09/13/94	405293
		NO ACTIVITY DETECTED	09/20/94	405409
		NO ACTIVITY DETECTED	09/27/94	405588
		NO ACTIVITY DETECTED	10/11/94	405869
		NO ACTIVITY DETECTED	10/25/94	406113
		NO ACTIVITY DETECTED	11/02/94	406293
		NO ACTIVITY DETECTED	11/07/94	406477
		NO ACTIVITY DETECTED	11/16/94	406597
		NO ACTIVITY DETECTED	11/29/94	406903
		NO ACTIVITY DETECTED	12/06/94	407018
		NO ACTIVITY DETECTED	12/20/94	407252
	BI-214	+0.0138	+0.0094	01/25/94 400613
		+0.0215	+0.0076	04/26/94 402492
		+0.0260	+0.0071	10/04/94 405748
		+0.0091	+0.0073	10/18/94 405981

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI)	BI-214	+0.0244	+0.0076	12/27/94 407439		
		K-40	+0.4140	+0.0791	01/25/94 400613		
			+0.1533	+0.0587	07/12/94 404017		
			+0.2133	+0.0507	11/21/94 406755		
			+0.2193	+0.0457	12/27/94 407439		
		PB-212	+0.0027	+0.0047	01/11/94 400325		
			+0.0020	+0.0030	03/09/94 401424		
		PB-214	+0.0203	+0.0083	02/15/94 400993		
			+0.0066	+0.0069	05/03/94 402611		
			+0.0040	+0.0038	08/30/94 404975		
			+0.0287	+0.0063	10/04/94 405748		
			+0.0113	+0.0062	12/13/94 407123		
			+0.0264	+0.0079	12/27/94 407439		
		3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		01/04/94	400226
				NO ACTIVITY DETECTED		01/19/94	400454
				NO ACTIVITY DETECTED		01/25/94	400616
				NO ACTIVITY DETECTED		02/01/94	400750
NO ACTIVITY DETECTED				02/08/94	400856		
NO ACTIVITY DETECTED				02/15/94	400995		
NO ACTIVITY DETECTED				02/23/94	401161		
NO ACTIVITY DETECTED				03/02/94	401286		
NO ACTIVITY DETECTED				03/08/94	401426		
NO ACTIVITY DETECTED				03/29/94	401860		
NO ACTIVITY DETECTED				04/05/94	401970		
NO ACTIVITY DETECTED				04/12/94	402121		
NO ACTIVITY DETECTED				04/19/94	402259		
NO ACTIVITY DETECTED				04/26/94	402495		
NO ACTIVITY DETECTED				05/04/94	402613		
NO ACTIVITY DETECTED				05/10/94	402778		
NO ACTIVITY DETECTED				05/17/94	402930		
NO ACTIVITY DETECTED				05/24/94	403050		
NO ACTIVITY DETECTED				05/31/94	403170		
NO ACTIVITY DETECTED				06/07/94	403318		
NO ACTIVITY DETECTED		06/14/94	403515				
NO ACTIVITY DETECTED		06/21/94	403639				
NO ACTIVITY DETECTED		06/28/94	403755				

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHARCOAL FILTER  
 PCI/M3 - 0.037 BQ/M3  
 12/27/93 TO 12/30/94

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	07/05/94	403875		
		NO ACTIVITY DETECTED	07/12/94	404020		
		NO ACTIVITY DETECTED	07/19/94	404167		
		NO ACTIVITY DETECTED	07/26/94	404272		
		NO ACTIVITY DETECTED	08/02/94	404402		
		NO ACTIVITY DETECTED	08/09/94	404563		
		NO ACTIVITY DETECTED	08/16/94	404720		
		NO ACTIVITY DETECTED	08/23/94	404848		
		NO ACTIVITY DETECTED	08/30/94	404977		
		NO ACTIVITY DETECTED	09/06/94	405166		
		NO ACTIVITY DETECTED	09/13/94	405296		
		NO ACTIVITY DETECTED	09/20/94	405411		
		NO ACTIVITY DETECTED	09/27/94	405590		
		NO ACTIVITY DETECTED	10/11/94	405872		
		NO ACTIVITY DETECTED	10/18/94	405983		
		NO ACTIVITY DETECTED	10/25/94	406115		
		NO ACTIVITY DETECTED	11/01/94	406296		
		NO ACTIVITY DETECTED	11/07/94	406480		
		NO ACTIVITY DETECTED	11/15/94	406599		
		NO ACTIVITY DETECTED	11/21/94	406757		
		NO ACTIVITY DETECTED	11/29/94	406906		
		NO ACTIVITY DETECTED	12/06/94	407021		
		NO ACTIVITY DETECTED	12/13/94	407125		
		NO ACTIVITY DETECTED	12/20/94	407254		
		NO ACTIVITY DETECTED	12/27/94	407441		
		K-40	+0.1759	+0.0595	12/28/93	400111
			+0.1651	+0.0390	01/11/94	400327
			+0.2741	+0.0661	03/15/94	401560
		PB-212	+0.2134	+0.0598	10/04/94	405751
			+0.0074	+0.0031	01/11/94	400327
			+0.0014	+0.0032	03/22/94	401737

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GUM PAPER  
 MCI/KM2 - 37000000.00 BQ/KM2  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
2116 RM-2 DAYTON TN 17.75 MILES NNE	GROSS BETA	+0.1103	+0.0126	01/04/94	400164		
		+0.0848	+0.0101	02/01/94	400688		
		+0.0945	+0.0112	03/01/94	401220		
		+0.2444	+0.0260	03/29/94	401796		
		+0.2478	+0.0264	04/26/94	402378		
		+0.0914	+0.0108	05/24/94	402984		
		+0.0987	+0.0115	06/21/94	403575		
		+0.1173	+0.0133	07/19/94	404104		
		+0.0867	+0.0103	08/16/94	404655		
		+0.1108	+0.0127	09/13/94	405233		
		+0.0728	+0.0089	10/11/94	405809		
		+0.0771	+0.0094	11/07/94	406415		
		+0.1092	+0.0125	12/06/94	406958		
		3101 LM1 ENV DATA STA 0.5 MILES SSW	GROSS BETA	+0.0959	+0.0112	01/04/94	400191
				+0.0800	+0.0097	02/01/94	400715
+0.1402	+0.0157			03/01/94	401248		
+0.2540	+0.0270			03/29/94	401823		
+0.2426	+0.0259			04/26/94	402445		
+0.1360	+0.0154			05/24/94	403011		
+0.0948	+0.0112			06/21/94	403602		
+0.1422	+0.0158			07/19/94	404131		
+0.1015	+0.0118			08/16/94	404681		
+0.1066	+0.0123			09/13/94	405259		
+0.0953	+0.0112			10/11/94	405836		
+0.1239	+0.0140			11/07/94	406441		
+0.1622	+0.0178			12/06/94	406985		
3102 LM2 N. WBSP GATE 0.5 MILES N	GROSS BETA			+0.2731	+0.0289	01/04/94	400195
				+0.1522	+0.0168	02/01/94	400719
		+0.2895	+0.0306	03/01/94	401252		
		+0.3363	+0.0352	03/29/94	401827		
		+0.3191	+0.0335	04/26/94	402449		
		+0.1198	+0.0137	05/24/94	403015		
		+0.1126	+0.0129	06/21/94	403606		
		+0.1870	+0.0203	07/19/94	404135		

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GUM PAPER  
 MCI/KM2 - 37000000.00 BQ/KM2  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3102 LM2 N. WBSP GATE 0.5 MILES N	GROSS BETA	+0.1512	+0.0167	08/16/94 404685
		+0.1037	+0.0120	09/13/94 405263
		+0.1041	+0.0121	10/11/94 405840
		+0.1410	+0.0158	11/07/94 406445
		+0.1875	+0.0204	12/06/94 406989
3106 PM2 SPRING CITY 7.0 MILES NW	GROSS BETA	+0.1114	+0.0127	01/04/94 400198
		+0.0609	+0.0078	02/01/94 400722
		+0.1364	+0.0154	03/02/94 401255
		+0.2371	+0.0253	03/29/94 401830
		+0.1631	+0.0179	04/26/94 402452
		+0.1099	+0.0126	05/24/94 403018
		+0.0881	+0.0105	06/21/94 403609
		+0.1084	+0.0125	07/19/94 404138
		+0.0955	+0.0112	08/16/94 404688
		+0.0805	+0.0097	09/13/94 405266
		+0.0681	+0.0085	10/11/94 405843
		+0.0924	+0.0109	11/07/94 406448
		+0.0989	+0.0115	12/06/94 406992
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GROSS BETA	+0.1202	+0.0136	01/04/94 400201
		+0.0852	+0.0102	02/01/94 400725
		+0.1628	+0.0180	03/02/94 401258
		+0.3343	+0.0350	03/29/94 401833
		+0.2198	+0.0237	04/26/94 402455
		+0.1671	+0.0185	05/24/94 403021
		+0.1930	+0.0211	06/21/94 403612
		+0.2094	+0.0227	07/19/94 404141
		+0.1213	+0.0138	08/16/94 404691
		+0.1036	+0.0120	09/13/94 405269
		+0.0861	+0.0103	10/11/94 405846
		+0.0836	+0.0100	11/07/94 406451
		+0.1903	+0.0206	12/06/94 406995
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GROSS BETA	+0.0917	+0.0108	01/05/94 400204

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GUM PAPER  
 MCI/KM2 - 37000000.00 BQ/KM2  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GROSS BETA	+0.0583	+0.0076	02/02/94 400728		
		+0.1437	+0.0161	03/02/94 401261		
		+0.2827	+0.0298	03/29/94 401836		
		+0.1986	+0.0214	04/26/94 402458		
		+0.1146	+0.0131	05/24/94 403024		
		+0.0908	+0.0107	06/22/94 403615		
		+0.1106	+0.0127	07/19/94 404144		
		+0.0835	+0.0100	08/17/94 404694		
		+0.0734	+0.0090	09/14/94 405272		
		+0.0634	+0.0081	10/11/94 405849		
		+0.0884	+0.0105	11/08/94 406454		
		+0.1408	+0.0156	12/06/94 406998		
		3109 PM5 DECATUR 6.25 MILES S	GROSS BETA	+0.1159	+0.0132	01/05/94 400207
				+0.0815	+0.0098	02/01/94 400731
+0.1506	+0.0168			03/01/94 401264		
+0.2525	+0.0268			03/29/94 401839		
+0.2241	+0.0240			04/26/94 402461		
+0.0938	+0.0110			05/25/94 403027		
+0.1078	+0.0124			06/22/94 403618		
+0.1118	+0.0130			07/20/94 404147		
+0.0837	+0.0100			08/16/94 404697		
+0.0761	+0.0093			09/14/94 405275		
+0.0689	+0.0086			10/11/94 405852		
+0.0879	+0.0104			11/08/94 406457		
+0.0945	+0.0111			12/07/94 407001		
3203 LM-3 WB 2.1 MILES NNE	GROSS BETA			+0.1458	+0.0162	01/04/94 400221
		+0.0673	+0.0084	02/01/94 400745		
		+0.1180	+0.0135	03/01/94 401281		
		+0.2505	+0.0266	03/29/94 401855		
		+0.2658	+0.0281	04/26/94 402490		
		+0.0968	+0.0113	05/24/94 403045		
		+0.0765	+0.0093	06/21/94 403634		
		+0.1183	+0.0134	07/19/94 404162		
		+0.0816	+0.0098	08/16/94 404715		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GUM PAPER  
 MCI/KM2 - 37000000.00 BQ/KM2  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3203 LM-3 WB 2.1 MILES NNE	GROSS BETA	+0.0646	+0.0082	09/13/94 405291
		+0.0460	+0.0063	10/11/94 405867
		+0.0798	+0.0096	11/07/94 406475
		+0.0934	+0.0109	12/06/94 407016
3204 LM-4 WB 0.9 MILES SE	GROSS BETA	+0.1318	+0.0148	01/04/94 400224
		+0.0941	+0.0111	02/01/94 400748
		+0.1548	+0.0172	03/01/94 401284
		+0.2425	+0.0258	03/29/94 401858
		+0.2290	+0.0245	04/26/94 402493
		+0.0963	+0.0113	05/24/94 403048
		+0.1009	+0.0118	06/21/94 403637
		+0.1316	+0.0148	07/19/94 404165
		+0.1004	+0.0118	09/13/94 405294
		+0.0592	+0.0076	10/11/94 405870
		+0.0898	+0.0106	11/07/94 406478
		+0.1018	+0.0118	12/06/94 407019
		3205 RM-3 WB 15 MILES NNW	GROSS BETA	+0.1267
+0.0715	+0.0088			02/01/94 400751
+0.1317	+0.0149			03/02/94 401287
+0.2770	+0.0293			03/29/94 401861
+0.2306	+0.0247			04/26/94 402496
+0.1396	+0.0156			05/24/94 403051
+0.1303	+0.0146			06/21/94 403640
+0.1506	+0.0167			07/19/94 404168
+0.0728	+0.0089			08/16/94 404721
+0.0749	+0.0092			09/13/94 405297
+0.0781	+0.0095			10/11/94 405873
+0.0723	+0.0089			11/07/94 406481
+0.1228	+0.0139			12/06/94 407022

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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		03/22/94 401690	
	AC-228	+2.5671	+3.1607	12/28/93 400062	
		+8.0566	+5.0540	04/19/94 402211	
	BE-7	+44.6540	+9.9644	12/28/93 400062	
		+51.5540	+11.9280	01/25/94 400568	
		+40.4150	+7.8320	04/19/94 402211	
		+55.0940	+10.9020	05/17/94 402882	
		+45.0810	+10.8220	06/14/94 403467	
		+32.2150	+7.6248	07/12/94 403972	
		+38.9250	+8.3039	09/06/94 405117	
		+77.5250	+14.2460	10/04/94 405703	
		+29.5090	+7.0695	11/01/94 406220	
		+43.6980	+8.5776	11/29/94 406857	
	BI-214	+4.1945	+2.9104	04/19/94 402211	
		+2.7133	+3.3170	05/17/94 402882	
		+1.2593	+3.4239	08/09/94 404516	
		+7.2684	+2.8319	10/04/94 405703	
		+3.8027	+2.4767	11/01/94 406220	
	K-40	+5.4141	+20.2990	12/28/93 400062	
		+13.6450	+21.7710	04/19/94 402211	
	PB-212	+1.2729	+2.4348	12/28/93 400062	
		+0.1969	+3.5183	02/22/94 401113	
		+1.3531	+1.5849	04/19/94 402211	
		+3.0591	+1.7631	05/17/94 402882	
	PB-214	+2.7504	+2.1289	10/04/94 405703	
	TL-208	+0.4427	+0.9754	12/28/93 400062	
		+1.2797	+1.3221	05/17/94 402882	
	SR 89		-0.0906	+0.9350	12/28/93 400062
			-0.2469	+0.8450	01/25/94 400568
			-0.4969	+0.9570	02/22/94 401113
			+0.9670	+1.5200	03/22/94 401690
			+0.6370	+1.2100	04/19/94 402211
		-0.7249	+0.9910	05/17/94 402882	
		+0.9760	+1.3700	06/14/94 403467	
		+2.6400	+1.3500	07/12/94 403972	
		-0.1609	+0.8710	08/09/94 404516	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN . 17.75 MILES NNE	SR 89	+0.6500	+0.9540	09/06/94 405117
		+2.0200	+1.9000	10/04/94 405703
		+0.7630	+1.2600	11/01/94 406220
		-0.0619	+1.0400	11/29/94 406857
	SR 90	+0.0525	+0.5120	12/28/93 400062
		-0.0259	+0.5890	01/25/94 400568
		+0.4420	+0.6120	02/22/94 401113
		-0.2329	+0.5900	03/22/94 401690
		+0.0800	+0.5840	04/19/94 402211
		+0.6090	+0.5030	05/17/94 402882
		-0.3399	+0.5940	06/14/94 403467
		-0.7579	+0.6290	07/12/94 403972
		+0.2740	+0.4660	08/09/94 404516
		+0.2270	+0.5370	09/06/94 405117
		-0.9089	+1.0300	10/04/94 405703
		-0.1159	+0.5480	11/01/94 406220
		+0.5740	+0.5560	11/29/94 406857
3101 LM1 ENV DATA STA 0.5 MILES SSW	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	12/29/93	400085
		NO ACTIVITY DETECTED	01/25/94	400591
		NO ACTIVITY DETECTED	02/22/94	401136
		NO ACTIVITY DETECTED	04/19/94	402234
		NO ACTIVITY DETECTED	05/17/94	402905
	BE-7	+45.6230	+8.1353	03/22/94 401713
		+25.0680	+6.3558	07/12/94 403995
		+37.4250	+11.3260	08/09/94 404539
		+36.2910	+10.0450	09/07/94 405140
		+29.2150	+11.5890	11/29/94 406881
	BI-214	+3.1086	+2.9517	08/09/94 404539
		+0.6696	+2.0120	09/07/94 405140
		+7.3597	+3.7433	11/01/94 406258
	PB-212	+0.6989	+1.9136	06/14/94 403490
		+1.4693	+2.0347	07/12/94 403995
		+0.8788	+2.2665	10/04/94 405726
	SR 89			
		-0.3079	+0.9130	12/29/93 400085



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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3102 LM2 N. WBSP GATE . 0.5 MILES N	GAMMA SCAN (GELI) BE-7	+39.2130	+10.4950	04/19/94	402238
		+45.2120	+8.8640	07/12/94	403999
	+52.9070	+12.0730	08/09/94	404543	
	BI-214	+3.6193	+2.7774	10/04/94	405730
		+0.9929	+2.6296	11/01/94	406262
	K-40 PB-212	+10.7260	+19.7320	08/09/94	404543
		+5.0787	+2.6395	08/09/94	404543
	TL-208	+2.1397	+2.2403	11/01/94	406262
		+0.8102	+1.3930	01/25/94	400595
	SR 89	+0.9890	+1.6794	04/19/94	402238
		+0.1840	+0.9330	12/29/93	400089
		+1.6700	+0.8240	01/25/94	400595
		-0.8149	+0.8580	02/22/94	401140
		+0.9290	+1.6700	03/22/94	401717
		+0.3880	+1.2300	04/19/94	402238
		+0.5770	+1.0800	05/17/94	402909
		+0.6920	+1.2700	06/14/94	403494
		+0.9840	+1.3200	07/12/94	403999
		+0.6790	+0.9360	08/09/94	404543
		+0.4810	+0.8970	09/07/94	405145
		-0.7439	+2.1900	10/04/94	405730
		-0.0112	+1.1900	11/01/94	406262
		+0.0940	+0.9650	11/29/94	406885
		SR 90	+0.1600	+0.5160	12/29/93
	-1.1499		+0.5710	01/25/94	400595
	+0.5400		+0.5510	02/22/94	401140
	-0.1419		+0.6440	03/22/94	401717
-0.2299	+0.5860		04/19/94	402238	
+0.0096	+0.5290		05/17/94	402909	
-0.2619	+0.5500		06/14/94	403494	
-0.0010	+0.6240		07/12/94	403999	
-0.1869	+0.4870		08/09/94	404543	
-0.0340	+0.5020		09/07/94	405145	
+0.0933	+1.2300		10/04/94	405730	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3102 LM2 N. WBSP GATE . 0.5 MILES N	SR 90	+0.2210	+0.5210	11/01/94	406262
		+0.0694	+0.5060	11/29/94	406885
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)				
	NO ACTIVITY DETECTED				
	AC-228	+3.5747	+4.4204	06/14/94	404002
		+3.0308	+3.9247	08/09/94	404546
	BE-7	+33.4490	+9.6202	12/28/93	400092
		+44.3900	+9.3071	01/25/94	400598
		+39.7920	+8.5773	02/23/94	401143
		+50.6130	+8.7467	03/22/94	401720
		+49.2850	+7.2961	05/17/94	402913
		+64.6100	+10.4840	06/14/94	403497
		+40.8710	+9.7003	09/06/94	405148
		+42.2950	+8.4720	11/29/94	406888
	BI-214	+8.4719	+8.8236	04/19/94	402241
		+1.3410	+3.6882	09/06/94	405148
		+2.5117	+3.6368	10/04/94	405733
		+3.4863	+2.9443	11/01/94	406265
		+8.2764	+9.0809	11/29/94	406888
		PB-212	+0.7557	+1.6696	02/23/94
	SR 89	+0.5469	+1.7567	06/14/94	403497
		-0.5399	+0.9300	12/28/93	400092
		+1.4500	+0.8060	01/25/94	400598
		-0.0388	+0.8950	02/23/94	401143
		-1.0899	+1.6800	03/22/94	401720
		+2.3000	+1.4800	04/19/94	402241
		-0.6479	+1.0500	05/17/94	402913
		-1.3899	+1.4300	06/14/94	403497
+2.4900		+1.4200	07/12/94	404002	
	+0.2440	+0.9760	08/09/94	404546	
	+0.0503	+0.9210	09/06/94	405148	
	-0.1259	+0.9010	10/04/94	405733	
	+1.7100	+1.3200	11/01/94	406265	
SR 90	+0.8450	+1.1100	11/29/94	406888	
		-0.0750	+0.5030	12/28/93	400092

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO			
			TERM	COLLECTED				
3106 PM2 SPRING CITY 7.0 MILES NW	SR 90	+1.5700	+0.6060	01/25/94	400598			
		+0.2050	+0.5690	02/23/94	401143			
		+0.8440	+0.6650	03/22/94	401720			
		-0.5569	+0.6880	04/19/94	402241			
		+0.6110	+0.5250	05/17/94	402913			
		+0.9030	+0.6370	06/14/94	403497			
		-0.4579	+0.6610	07/12/94	404002			
		+0.0194	+0.5080	08/09/94	404546			
		+0.3010	+0.5140	09/06/94	405148			
		+0.0864	+0.5180	10/04/94	405733			
		-0.6729	+0.5550	11/01/94	406265			
		-0.0698	+0.5720	11/29/94	406888			
		3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		10/04/94	405736	
				AC-228	+0.4968	+3.5161	08/09/94	404549
				BE-7	+35.0600	+8.5095	12/28/93	400095
	+40.7710			+10.9220	01/25/94	400601		
	+46.6980			+13.7500	03/22/94	401723		
	+31.3960			+8.7475	04/19/94	402244		
	+31.0650			+10.8790	05/17/94	402916		
	+28.1840			+47.3730	06/14/94	403500		
	+38.4260			+11.9080	08/09/94	404549		
	+47.5140			+10.4180	09/06/94	405152		
	+67.3320			+6.1746	11/01/94	406268		
	+29.8630			+8.7065	11/29/94	406891		
K-40	+2.6093			+13.5000	02/23/94	401146		
	+9.0378			+15.8570	03/22/94	401723		
	+8.3391			+12.7050	06/14/94	403500		
	+5.3822			+15.0160	07/12/94	404005		
	+0.0172			+13.3590	08/09/94	404549		
PB-212	+0.1952			+2.0413	11/01/94	406268		
PB-214	+12.9040			+4.7322	04/19/94	402244		
TL-208	+0.2205			+1.1664	03/22/94	401723		
	+0.0266	+0.9469	04/19/94	402244				
	+0.6267	+1.1595	09/06/94	405152				
SR 89		-0.4559	+1.4100	12/28/93	400095			

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM COLLECTED	LAB NO			
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	SR 89	+0.5200	+0.5540	01/25/94	400601		
		+0.1410	+0.8560	02/23/94	401146		
		-0.6889	+1.5800	03/22/94	401723		
		+0.3120	+1.2900	04/19/94	402244		
		+0.1860	+1.0900	05/17/94	402916		
		+0.1890	+1.4400	06/14/94	403500		
		+1.3700	+1.2500	07/12/94	404005		
		-0.5169	+0.9960	08/09/94	404549		
		-0.6529	+0.9480	09/06/94	405152		
		+0.1630	+0.9860	10/04/94	405736		
		+1.0300	+1.2500	11/01/94	406268		
		+0.0931	+0.9880	11/29/94	406891		
		SR 90	+0.2480	+0.5120	12/28/93	400095	
			-0.4559	+0.3970	01/25/94	400601	
			+0.0136	+0.5410	02/23/94	401146	
	+0.2270		+0.6370	03/22/94	401723		
	-0.1309		+0.6120	04/19/94	402244		
	-0.0523		+0.5300	05/17/94	402916		
	+0.0126		+0.6210	06/14/94	403500		
	-0.2829		+0.5870	07/12/94	404005		
	+0.4160		+0.5240	08/09/94	404549		
	+0.6370		+0.5440	09/06/94	405152		
	-0.0206		+0.5610	10/04/94	405736		
	-0.2899		+0.5330	11/01/94	406268		
	+0.4030		+0.5200	11/29/94	406891		
	3108 PM-4 TEN MILE 7.8 M. NE/ENE		GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		02/23/94	401149
				NO ACTIVITY DETECTED		08/09/94	404552
			BE-7	+49.9170	+9.7084	12/29/93	400098
				+32.6990	+7.2987	03/22/94	401726
				+67.6840	+17.3400	06/14/94	403503
		+51.6740		+10.2510	07/12/94	404009	
		+24.3680		+7.4423	09/07/94	405155	
		BI-214	+51.8920	+13.2660	11/30/94	406894	
+1.7133			+2.7569	04/19/94	402247		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GAMMA SCAN (GELI) BI-214	+3.8236	+2.7221	05/17/94	402919		
		+3.6959	+3.4254	09/07/94	405155		
		+1.9185	+2.2052	10/05/94	405740		
		+3.5148	+2.7304	11/02/94	406271		
		K-40	+12.2730	+12.0940	11/30/94	406894	
			PB-212	+0.2085	+1.5398	01/25/94	400604
				+0.6931	+0.9903	04/19/94	402247
			+0.2395	+1.6727	09/07/94	405155	
		PB-214	+1.2535	+2.5155	10/05/94	405740	
			SR 89				
				-1.6299	+0.9740	12/29/93	400098
				+0.3210	+0.7680	01/25/94	400604
			+0.9110	+0.9700	02/23/94	401149	
			-0.1039	+1.5500	03/22/94	401726	
			+1.2400	+1.2700	04/19/94	402247	
			+0.3320	+1.1900	05/17/94	402919	
			-1.5599	+1.3800	06/14/94	403503	
			+0.3680	+1.5000	07/12/94	404009	
			+0.1410	+0.9710	08/09/94	404552	
			+0.8870	+0.9760	09/07/94	405155	
			-0.6949	+0.9600	10/05/94	405740	
			+1.1800	+1.2100	11/02/94	406271	
			+0.2750	+1.1000	11/30/94	406894	
		SR 90					
			+0.7590	+0.5420	12/29/93	400098	
			-0.2199	+0.5440	01/25/94	400604	
			-0.3119	+0.6020	02/23/94	401149	
			-0.0059	+0.6200	03/22/94	401726	
			-0.2289	+0.5980	04/19/94	402247	
			-0.1149	+0.5860	05/17/94	402919	
			+0.7300	+0.6110	06/14/94	403503	
			-0.1019	+0.7210	07/12/94	404009	
		+0.0431	+0.5050	08/09/94	404552		
		-0.2389	+0.5480	09/07/94	405155		
		+0.3840	+0.5710	10/05/94	405740		
		-0.3509	+0.5280	11/02/94	406271		

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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM COLLECTED	LAB NO
3108 PM-4 TEN MILE	7.8 M. NE/ENE	SR 90	-0.1899	+0.5870 11/30/94 406894
3109 PMS DECATUR	6.25 MILES S	GAMMA SCAN (GELI)		
		NO ACTIVITY DETECTED		12/29/93 400102
	AC-228	+4.8416	+4.2691 03/22/94	401729
	BE-7	+51.3750	+10.4830 01/25/94	400607
		+32.0760	+6.2330 02/23/94	401153
		+41.5200	+10.2080 03/22/94	401729
		+58.9970	+6.7111 05/17/94	402922
		+59.7850	+9.2481 06/14/94	403506
		+46.4830	+9.4932 07/12/94	404012
		+35.6220	+11.3020 08/09/94	404555
		+37.0160	+13.8760 09/07/94	405158
		+32.9300	+8.1236 10/05/94	405743
		+23.4510	+6.2501 11/30/94	406897
	BI-214	+1.7602	+3.3593 04/19/94	402250
		+2.7815	+3.1789 09/07/94	405158
		+2.4051	+2.8692 10/05/94	405743
		+0.3608	+7.2419 11/02/94	406274
	K-40	+3.2898	+15.5250 03/22/94	401729
		+17.7680	+10.1900 04/19/94	402250
		+8.8452	+15.6560 11/02/94	406274
	PB-212	+3.9507	+1.5586 02/23/94	401153
		+0.3222	+1.7138 03/22/94	401729
		+2.6835	+3.3751 04/19/94	402250
	SR 89			
		+0.7420	+0.9760 12/29/93	400102
		-0.1079	+0.7400 01/25/94	400607
		-0.6519	+0.9260 02/23/94	401153
		-0.4009	+1.5400 03/22/94	401729
		+0.3700	+1.4000 04/19/94	402250
		+0.1700	+1.1500 05/17/94	402922
		+1.0200	+1.4700 06/14/94	403506
		-0.5019	+1.3200 07/12/94	404012
		+0.5570	+0.9990 08/09/94	404555
		-0.6499	+0.9080 09/07/94	405158
		-1.5499	+0.9640 10/05/94	405743

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3109 PM5 DECATUR 6.25 MILES S	SR 89	+0.9540	+1.2200	11/02/94	406274	
		+0.8770	+1.1200	11/30/94	406897	
	SR 90	-0.5109	+0.5420	12/29/93	400102	
		+0.3490	+0.5310	01/25/94	400607	
		+0.4100	+0.6090	02/23/94	401153	
		+0.5130	+0.6260	03/22/94	401729	
		+0.0670	+0.6800	04/19/94	402250	
		-0.0213	+0.5690	05/17/94	402922	
		-0.1669	+0.6470	06/14/94	403506	
		+0.4160	+0.6410	07/12/94	404012	
		-0.0171	+0.5310	08/09/94	404555	
		+0.4390	+0.5210	09/07/94	405158	
		+0.8960	+0.5810	10/05/94	405743	
		-0.1489	+0.5290	11/02/94	406274	
		+0.2759	+0.5930	11/30/94	406897	
3203 LM-3 WB 2.1 MILES NNE	GAMMA SCAN (GELI) BE-7	+52.8140	+14.5310	12/29/93	400105	
		+30.9310	+7.7561	01/25/94	400610	
		+56.1940	+11.8710	03/22/94	401732	
		+31.4930	+8.4994	04/19/94	402253	
		+49.6020	+10.6160	05/17/94	402925	
		+49.4320	+6.9603	06/14/94	403509	
		+37.4480	+8.1023	07/12/94	404015	
		+28.4450	+7.7029	08/09/94	404558	
		+44.4830	+10.5200	09/07/94	405161	
		BI-214	+0.4537	+2.6778	12/29/93	400105
			+5.3859	+2.4351	04/19/94	402253
			+1.4949	+3.5778	05/17/94	402925
			+4.6000	+2.5324	10/04/94	405746
		K-40	+1.3912	+8.7976	11/01/94	406291
	+6.0697		+3.3702	11/29/94	406900	
	+5.1979		+19.2120	03/22/94	401732	
	+12.0620		+18.5540	05/17/94	402925	
	+2.4725		+10.1820	06/14/94	403509	
	+18.8280		+19.7760	10/04/94	405746	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3203 LM-3 WB 2.1 MILES NNE	GAMMA SCAN (GELI)					
	K-40	+22.5750	+25.0390	11/29/94	406900	
	PB-212		+0.8483	+1.3215	02/23/94	401156
			+0.0196	+0.9979	06/14/94	403509
		+1.4582	+1.6994	10/04/94	405746	
		+0.8284	+2.6074	11/29/94	406900	
	PB-214		+14.2350	+7.5834	01/25/94	400610
			+0.2693	+2.2616	04/19/94	402253
		+2.0657	+2.1705	10/04/94	405746	
	TL-208		+1.9376	+1.4614	12/29/93	400105
			+1.6843	+0.8660	06/14/94	403509
	SR 89					
			-0.0130	+0.9440	12/29/93	400105
			+1.1400	+0.9040	01/25/94	400610
			+1.8600	+0.9720	02/23/94	401156
			-0.0075	+1.6300	03/22/94	401732
			+0.1910	+1.3500	04/19/94	402253
			+0.0993	+1.1200	05/17/94	402925
			-0.8389	+1.4300	06/14/94	403509
			+0.1510	+1.3700	07/12/94	404015
			+0.8000	+0.9990	08/09/94	404558
			-0.7089	+1.0500	09/07/94	405161
			+1.4800	+1.0400	10/04/94	405746
			+0.3770	+1.3300	11/01/94	406291
			+0.9920	+1.1700	11/29/94	406900
	SR 90					
			-0.1899	+0.5280	12/29/93	400105
		-0.2459	+0.4760	01/25/94	400610	
		-1.0499	+0.6110	02/23/94	401156	
		+0.1530	+0.6510	03/22/94	401732	
		+0.0141	+0.6520	04/19/94	402253	
		-0.1949	+0.5520	05/17/94	402925	
		+0.4390	+0.6410	06/14/94	403509	
		+0.0506	+0.6600	07/12/94	404015	
		-0.4359	+0.5220	08/09/94	404558	
		+0.5200	+0.5730	09/07/94	405161	
		-0.5489	+0.5940	10/04/94	405746	

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			TERM	COLLECTED	LAB NO	
3203 LM-3 WB	2.1 MILES NNE	SR 90	-0.1869	+0.5890	11/01/94	406291
			-0.3869	+0.6080	11/29/94	406900
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		01/25/94	400614
			NO ACTIVITY DETECTED		08/09/94	404561
			NO ACTIVITY DETECTED		11/02/94	406294
			NO ACTIVITY DETECTED		11/29/94	406904
		AC-228	+1.1479	+4.1905	06/14/94	403513
		BE-7	+66.9990	+12.4440	12/29/93	400109
			+40.1900	+11.7730	02/23/94	401159
			+38.0010	+11.9540	03/22/94	401735
			+45.7180	+8.8433	04/19/94	402256
			+181.2700	+14.5780	06/14/94	403513
			+59.3170	+11.7540	07/12/94	404018
			+19.4030	+7.3426	09/07/94	405164
		BI-214	+8.1655	+11.6940	02/23/94	401159
			+4.6595	+2.8929	04/19/94	402256
			+3.4926	+2.4900	05/17/94	402928
			+1.4255	+2.2578	07/12/94	404018
			+0.5182	+2.4757	09/07/94	405164
			+5.8269	+3.9133	10/04/94	405749
		K-40	+9.4960	+11.1630	02/23/94	401159
			+4.3447	+21.9210	05/17/94	402928
		PB-212	+4.4359	+2.2316	05/17/94	402928
		PB-214	+0.4066	+2.2958	09/07/94	405164
TL-208	+3.1313	+1.7215	05/17/94	402928		
	+1.5215	+1.4845	10/04/94	405749		
SR 89		+0.0525	+0.9240	12/29/93	400109	
		-1.2699	+0.8940	01/25/94	400614	
		-0.9109	+0.9250	02/23/94	401159	
		-0.0405	+1.6000	03/22/94	401735	
		-0.6779	+1.2300	04/19/94	402256	
		+0.0556	+1.2000	05/17/94	402928	
		+1.0600	+1.3700	06/14/94	403513	
		-1.6999	+1.2800	07/12/94	404018	

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			TERM	COLLECTED LAB NO	
3204 LM-4 WB 0.9 MILES SE	SR 89	+0.3160	+0.9830	08/09/94 404561	
		+0.2200	+1.0000	09/07/94 405164	
		+0.3600	+1.3100	10/04/94 405749	
		+0.0985	+1.4700	11/02/94 406294	
		+1.4000	+1.2700	11/29/94 406904	
	SR 90	-0.2739	+0.5140	12/29/93 400109	
		+0.4550	+0.4810	01/25/94 400614	
		+0.4610	+0.6050	02/23/94 401159	
		-0.1569	+0.6320	03/22/94 401735	
		+0.2050	+0.5970	04/19/94 402256	
		+0.0394	+0.5910	05/17/94 402928	
		-0.2419	+0.5970	06/14/94 403513	
		+0.9520	+0.6340	07/12/94 404018	
		+0.1750	+0.5230	08/09/94 404561	
		+0.3750	+0.5670	09/07/94 405164	
		+0.0757	+0.7470	10/04/94 405749	
		+0.1970	+0.6410	11/02/94 406294	
		+0.6569	+0.6500	11/29/94 406904	
		3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)		
				NO ACTIVITY DETECTED	05/17/94 402931
	NO ACTIVITY DETECTED		10/04/94 405752		
AC-228	+4.4689		+4.0475	06/14/94 403516	
BE-7	+35.9640		+7.9972	12/28/93 400112	
	+41.2540		+7.1227	01/25/94 400617	
	+34.2210		+5.9263	02/23/94 401162	
	+32.4440		+6.4549	03/22/94 401738	
	+32.6990		+8.5339	04/19/94 402260	
	+32.1550		+8.2306	06/14/94 403516	
	+58.3080		+14.1400	07/12/94 404021	
	+28.2280		+5.9719	08/09/94 404564	
	+36.5280		+10.0420	09/06/94 405167	
	+34.1450		+7.6745	11/01/94 406297	
BI-214	+26.0670		+8.2716	11/29/94 406907	
	+2.2373	+2.2204	12/28/93 400112		
	+1.8965	+2.0591	09/06/94 405167		

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			TERM	COLLECTED LAB NO	
3205 RM-3 WB	15. MILES NNW	GAMMA SCAN (GELI) K-40	+7.0379	+13.7550 01/25/94	400617
			+13.4880	+13.4990 02/23/94	401162
			+3.0595	+17.1660 11/01/94	406297
		PB-212	+1.5252	+1.5652 01/25/94	400617
			+11.4950	+2.0203 11/01/94	406297
			+0.5216	+1.5369 11/29/94	406907
		TL-208	+4.4523	+1.3837 11/01/94	406297
		SR 89			
			+0.2380	+0.9210 12/28/93	400112
			+0.0623	+0.8870 01/25/94	400617
			-0.0527	+1.1400 02/23/94	401162
			-1.2699	+1.6500 03/22/94	401738
			-0.5999	+1.3000 04/19/94	402260
			-0.2709	+1.2100 05/17/94	402931
			+0.3510	+1.4600 06/14/94	403516
			+1.9000	+1.2200 07/12/94	404021
			+0.6680	+1.3600 08/09/94	404564
			-0.6139	+0.8710 09/06/94	405167
			+1.9100	+2.0100 10/04/94	405752
			-1.9099	+1.5100 11/01/94	406297
			-0.4109	+1.3200 11/29/94	406907
		SR 90			
			-0.1289	+0.5100 12/28/93	400112
			+0.0050	+0.4670 01/25/94	400617
			+0.2940	+0.7310 02/23/94	401162
			+0.6960	+0.6620 03/22/94	401738
			+0.4030	+0.6290 04/19/94	402260
			+0.2630	+0.5980 05/17/94	402931
			+0.2810	+0.6410 06/14/94	403516
			-0.7979	+0.5750 07/12/94	404021
			+0.0546	+0.7040 08/09/94	404564
			+0.6590	+0.4970 09/06/94	405167
			-1.1699	+1.1100 10/04/94	405752
			+0.8200	+0.6610 11/01/94	406297
			+0.0929	+0.6880 11/29/94	406907

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2122 SHADDON FARM 12.0 MILES NNE	IODINE-131	-0.0066	+0.0238	01/05/94	400165		
		-0.0585	+0.0615	01/20/94	400400		
		+0.1023	+0.0710	02/02/94	400689		
		-0.0515	+0.0541	03/02/94	401221		
		+0.0029	+0.0657	03/16/94	401505		
		+0.0388	+0.0673	03/30/94	401797		
		+0.0030	+0.0696	04/13/94	402067		
		+0.0261	+0.0814	05/11/94	402716		
		+0.0028	+0.0647	05/25/94	402985		
		-0.0351	+0.0598	06/22/94	403576		
		+0.0028	+0.0648	07/06/94	403822		
		-0.0429	+0.0950	07/20/94	404105		
		-0.0336	+0.0744	08/03/94	404349		
		+0.0572	+0.0540	08/17/94	404656		
		-0.0333	+0.0739	08/31/94	404923		
		-0.0147	+0.0760	09/14/94	405234		
		+0.0490	+0.0992	09/28/94	405537		
		-0.0145	+0.0747	10/12/94	405810		
		-0.0329	+0.0729	11/08/94	406416		
		+0.0386	+0.0781	11/22/94	406688		
		+0.0320	+0.0535	12/21/94	407199		
			GAMMA SCAN (GELI)				
		AC-228		+5.8549	+4.1249	01/20/94	400400
				+5.0548	+4.3049	06/22/94	403576
				+6.3997	+4.7884	07/20/94	404105
		B1-214		+3.3237	+3.6729	08/03/94	404349
				+3.8934	+2.8123	01/05/94	400165
				+1.5158	+1.9642	02/02/94	400689
+118.0300	+9.8363			03/16/94	401505		
+45.5650	+6.9805			03/30/94	401797		
+157.3700	+10.6660			04/13/94	402067		
+2.5780	+2.7023			05/11/94	402716		
+68.6360	+7.6916			05/25/94	402985		
+132.9500	+11.0870			06/22/94	403576		
+36.0440	+4.4668			07/06/94	403822		
+16.4150	+3.6448			07/20/94	404105		
+4.7429	+2.7632	08/17/94	404656				

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2122 SHADDON FARM 12.0 MILES NNE	GAMMA SCAN (GELI) BI-214	+10.6290	+3.3172	09/14/94	405234	
		+9.9405	+3.7628	09/28/94	405537	
		+121.9800	+9.6509	10/12/94	405810	
		+5.1788	+2.4536	11/08/94	406416	
		+49.2730	+6.4677	11/22/94	406688	
		+2.9715	+3.5943	12/21/94	407199	
		K-40	+1562.2000	+102.9200	01/05/94	400165
			+1424.4000	+96.6040	01/20/94	400400
			+1300.8000	+86.1250	02/02/94	400689
			+1025.5000	+82.7760	03/02/94	401221
			+1072.1000	+82.3780	03/16/94	401505
			+1216.2000	+80.9910	03/30/94	401797
			+968.2100	+75.6500	04/13/94	402067
			+1260.4000	+98.1910	05/11/94	402716
			+1312.5000	+98.3930	05/25/94	402985
			+871.6900	+86.4600	06/22/94	403576
		PB-212	+1176.2000	+88.1950	07/06/94	403822
			+769.9000	+65.1020	07/20/94	404105
			+1302.3000	+91.3430	08/03/94	404349
			+1249.7000	+90.3790	08/17/94	404656
	+1292.2000		+84.4480	08/31/94	404923	
	+866.5500		+72.6770	09/14/94	405234	
	+1382.8000		+91.6360	09/28/94	405537	
	+1008.5000		+88.3210	10/12/94	405810	
	+636.5000		+61.6020	11/08/94	406416	
	+1254.3000		+87.4800	11/22/94	406688	
	PB-212	+1265.6000	+86.9910	12/21/94	407199	
		+0.3728	+2.3875	01/20/94	400400	
		+0.0564	+2.7095	02/02/94	400689	
		+1.0654	+2.0392	03/16/94	401505	
		+1.2589	+1.7972	03/30/94	401797	
		+0.2922	+2.1712	04/13/94	402067	
		+0.6625	+2.0848	05/11/94	402716	
		+0.7501	+1.5830	05/25/94	402985	
		+0.1584	+2.0758	06/22/94	403576	
		+1.1192	+2.1096	07/06/94	403822	
	+0.0947	+2.0254	07/20/94	404105		
	+1.5793	+2.2113	08/03/94	404349		

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
2122 SHADDON FARM 12.0 MILES NNE	GAMMA SCAN (GELI) PB-212	+1.1287	+1.8363	08/31/94	404923
		+0.7791	+1.5362	09/28/94	405537
	+2.1650	+1.9522	10/12/94	405810	
	+3.3951	+1.9712	11/22/94	406688	
	+1.1938	+3.5487	12/21/94	407199	
	PB-214	+2.6386	+3.0359	01/05/94	400165
		+1.0080	+1.9188	01/20/94	400400
		+134.7600	+10.9360	03/16/94	401505
		+38.0990	+4.5879	03/30/94	401797
		+147.9600	+9.0522	04/13/94	402067
		+68.0070	+5.9268	05/25/94	402985
		+143.0900	+9.2745	06/22/94	403576
		+31.6040	+3.7742	07/06/94	403822
		+7.0579	+2.9060	07/20/94	404105
		+4.0071	+2.3711	08/17/94	404656
		+7.1442	+3.9023	09/14/94	405234
		+1.2714	+2.9117	09/28/94	405537
		+126.8500	+9.5361	10/12/94	405810
		+43.9480	+5.1627	11/22/94	406688
		+10.8990	+3.3804	12/21/94	407199
		TL-208	+1.1697	+1.0979	01/20/94
	+0.7122		+1.1474	03/16/94	401505
	+0.5769		+1.3557	06/22/94	403576
	+0.8102		+1.2872	08/03/94	404349
	+1.9509		+1.1708	09/28/94	405537
	+1.5714		+1.4194	11/08/94	406416
	+0.3270		+1.3920	11/22/94	406688
	SR 89	-0.0374	+0.6230	01/05/94	400165
		+0.1250	+0.7040	02/02/94	400689
		+0.2250	+0.6520	03/02/94	401221
		+0.6450	+0.6680	03/30/94	401797
		+0.5960	+0.8040	05/25/94	402985
		+0.2650	+0.9580	06/22/94	403576
		+0.0082	+0.7980	07/20/94	404105
+0.8130		+0.8760	08/17/94	404656	
+1.7000		+0.8800	09/14/94	405234	

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 PCI/L - 0.037 BQ/L  
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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2122 SHADDON FARM 12.0 MILES NNE	SR 89	-0.7929	+1.0800	10/12/94	405810		
		+0.7390	+0.7920	11/08/94	406416		
	SR 90	+0.9220	+0.4710	01/05/94	400165		
		+0.9720	+0.5410	02/02/94	400689		
		+1.0900	+0.5440	03/02/94	401221		
		+0.9000	+0.5410	03/30/94	401797		
		+0.7960	+0.5410	05/25/94	402985		
		+1.3800	+0.6470	06/22/94	403576		
		+0.5520	+0.5340	07/20/94	404105		
		+1.1400	+0.5920	08/17/94	404656		
		-0.2499	+0.5630	09/14/94	405234		
		+1.6400	+0.7170	10/12/94	405810		
		+0.4960	+0.5290	11/08/94	406416		
		2202 BILDERBACK FARM 43.0 MILES NE	IODINE-131	-0.0063	+0.0228	01/04/94	400169
				+0.0632	+0.0543	01/20/94	400412
+0.0137	+0.0356			02/02/94	400693		
+0.0093	+0.0571			02/16/94	400953		
+0.0152	+0.0396			03/02/94	401225		
-0.0012	+0.0506			03/16/94	401517		
-0.0066	+0.0337			03/30/94	401800		
-0.0067	+0.0343			04/13/94	402079		
+0.0306	+0.0662			04/27/94	402404		
+0.0392	+0.0479			05/10/94	402727		
-0.0011	+0.0464			05/25/94	402989		
-0.0117	+0.0691			06/07/94	403267		
+0.0603	+0.0518			06/21/94	403579		
-0.0102	+0.0599			07/06/94	403833		
-0.0112	+0.0358			07/20/94	404109		
+0.0114	+0.0426			08/02/94	404360		
+0.0472	+0.0819			08/16/94	404659		
+0.0116	+0.0433			08/30/94	404934		
-0.0151	+0.0779			09/14/94	405237		
-0.0118	+0.0377			09/28/94	405548		
-0.0165	+0.0390	10/12/94	405813				

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
2202 BILDERBACK FARM 43.0 MILES NE	IODINE-131	+0.0196	+0.0652	10/26/94	406074	
		+0.0214	+0.0711	11/08/94	406419	
		-0.0532	+0.0734	11/22/94	406714	
		+0.0288	+0.0482	12/07/94	406962	
		+0.0351	+0.0497	12/21/94	407211	
	GAMMA SCAN (GELI)	BI-214	+9.3489	+9.2542	02/02/94	400693
			+9.9792	+4.8480	02/16/94	400953
			+3.3257	+2.9169	03/30/94	401800
			+11.1710	+11.2080	06/21/94	403579
			+25.3100	+16.3730	07/06/94	403833
		K-40	+14.5960	+10.2200	08/16/94	404659
			+3.9466	+8.5005	08/30/94	404934
			+3.4147	+2.5335	09/14/94	405237
			+25.1140	+4.2702	09/28/94	405548
			+0.4519	+2.5404	10/26/94	406074
			+1443.0000	+100.9000	01/04/94	400169
			+1424.5000	+98.8690	01/20/94	400412
			+1425.2000	+91.2390	02/02/94	400693
			+1466.7000	+99.6220	02/16/94	400953
			+1477.5000	+113.3200	03/02/94	401225
+1360.5000			+92.2250	03/16/94	401517	
+1328.7000			+92.5840	03/30/94	401800	
+1423.0000			+102.7000	04/13/94	402079	
+1385.9000			+81.9440	04/27/94	402404	
+1382.0000			+88.8340	05/10/94	402727	
+1293.3000	+98.8460	05/25/94	402989			
+1280.1000	+89.8910	06/07/94	403267			
+1365.3000	+101.8000	06/21/94	403579			
+1343.5000	+100.5200	07/06/94	403833			
+1490.5000	+95.5900	07/20/94	404109			
+1462.1000	+105.7800	08/02/94	404360			
+1325.4000	+83.4340	08/16/94	404659			
+1366.1000	+79.2620	08/30/94	404934			
+1217.6000	+86.8750	09/14/94	405237			
+1313.4000	+91.4660	09/28/94	405548			
+1396.7000	+97.0470	10/12/94	405813			

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2202 BILDERBACK FARM 43.0 MILES NE	GAMMA SCAN (GELI) K-40	+1457.0000	+95.7920	10/26/94	406074
		+1426.1000	+116.1700	11/08/94	406419
	+1363.3000	+95.9150	11/22/94	406714	
	+1376.1000	+93.4350	12/07/94	406962	
	+1485.4000	+100.0400	12/21/94	407211	
	PB-212	+0.6556	+2.3573	01/20/94	400412
		+0.9656	+2.2426	06/21/94	403579
		+0.9482	+3.7153	07/20/94	404109
	PB-214	+1.3946	+1.6366	10/26/94	406074
		+3.4023	+2.6576	02/16/94	400953
		+0.2421	+3.9203	03/02/94	401225
	TL-208	+2.8928	+1.9799	09/14/94	405237
		+13.2860	+4.4560	09/28/94	405548
		+0.3404	+1.2972	01/20/94	400412
	SR 89	+1.1830	+1.7064	03/30/94	401800
		+0.3390	+1.2390	05/25/94	402989
		-0.4509	+0.6540	01/04/94	400169
		+0.1190	+0.7480	02/02/94	400693
		+0.2350	+0.6310	03/02/94	401225
		-0.5399	+0.6480	03/30/94	401800
		+0.2280	+0.6850	04/27/94	402404
		+1.4500	+0.8170	05/25/94	402989
		+0.0666	+1.0100	06/21/94	403579
		+0.4120	+0.9050	07/20/94	404109
		+0.9030	+0.8400	08/16/94	404659
		+2.0400	+0.8650	09/14/94	405237
		-1.2299	+0.9870	10/12/94	405813
		-0.0780	+0.7650	11/08/94	406419
-0.2269	+0.8170	12/07/94	406962		
SR 90	+1.4200	+0.4980	01/04/94	400169	
	+0.7810	+0.5640	02/02/94	400693	
	+0.7830	+0.5190	03/02/94	401225	
	+1.3600	+0.5330	03/30/94	401800	
	+0.8400	+0.5220	04/27/94	402404	

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
2202 BILDERBACK FARM 43.0 MILES NE	SR 90	+0.1400	+0.5330	05/25/94	402989		
		+1.1900	+0.6660	06/21/94	403579		
		+0.6350	+0.5970	07/20/94	404109		
		+0.7720	+0.5570	08/16/94	404659		
		+0.4380	+0.5660	09/14/94	405237		
		+1.9900	+0.6660	10/12/94	405813		
		+1.1900	+0.5240	11/08/94	406419		
		+1.3100	+0.5480	12/07/94	406962		
		2203 CRUMLEY FARM 16.0 MILES NE	IODINE-131	-0.0010	+0.0440	01/20/94	400413
				-0.0009	+0.0394	02/16/94	400954
+0.0411	+0.0713			03/02/94	401226		
-0.0733	+0.0539			03/16/94	401518		
+0.0212	+0.0502			03/30/94	401801		
-0.0243	+0.0407			04/13/94	402080		
-0.0066	+0.0338			04/27/94	402405		
+0.0031	+0.0701			05/11/94	402729		
-0.0250	+0.0418			05/25/94	402990		
+0.0162	+0.0422			06/08/94	403268		
-0.0010	+0.0456			06/22/94	403580		
+0.0219	+0.0519			07/06/94	403835		
-0.0542	+0.0748			07/20/94	404110		
-0.0147	+0.0757			08/03/94	404361		
-0.0144	+0.0460			08/17/94	404660		
-0.0364	+0.0807			08/31/94	404935		
-0.0207	+0.0625			09/14/94	405238		
+0.0140	+0.0525			09/28/94	405549		
-0.0677	+0.0666			10/12/94	405814		
-0.0155	+0.0368			10/26/94	406075		
+0.0587	+0.0554			11/08/94	406420		
-0.0112	+0.0356			11/22/94	406715		
-0.0527	+0.0728			12/07/94	406963		
+0.0070	+0.0451			12/21/94	407212		
GAMMA SCAN (GELI)							
	81-214			+3.7789	+2.5156	02/16/94	400954
				+5.2108	+10.0070	06/08/94	403268

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR	DATE	LAB NO		
			TERM	COLLECTED			
2203 CRUMLEY FARM	16.0 MILES NE	GAMMA SCAN (GELI) BI-214	+7.6019	+4.1245	09/14/94	405238	
			+1.9110	+8.7218	10/26/94	406075	
			+6.4691	+9.7570	11/08/94	406420	
				+4.8810	+3.0522	11/22/94	406715
				+1.0347	+2.0078	12/21/94	407212
		K-40	+1257.6000	+132.3700	01/20/94	400413	
	+1268.5000		+84.6010	02/16/94	400954		
	+1597.4000		+118.3300	03/02/94	401226		
	+1471.1000		+96.1780	03/16/94	401518		
	+1352.6000		+95.5410	03/30/94	401801		
	+1343.7000		+98.4690	04/13/94	402080		
	+1293.2000		+82.9560	04/27/94	402405		
	+1422.0000		+89.6170	05/11/94	402729		
	+1416.9000		+97.6020	05/25/94	402990		
	+1244.9000		+93.6610	06/08/94	403268		
	+1409.3000		+104.1700	06/22/94	403580		
	+1427.6000		+90.5350	07/06/94	403835		
	+1404.7000		+90.9690	07/20/94	404110		
	+1311.4000		+85.2970	08/03/94	404361		
	+1470.1000		+117.2100	08/17/94	404660		
	+1372.0000		+105.0900	08/31/94	404935		
	+1285.6000		+108.2000	09/14/94	405238		
	+1302.9000		+99.6150	09/28/94	405549		
	+1367.3000		+105.9100	10/12/94	405814		
	+1322.6000		+88.4070	10/26/94	406075		
	+1300.9000		+91.4380	11/08/94	406420		
	+1327.4000		+83.9790	11/22/94	406715		
	+1332.6000		+83.1680	12/07/94	406963		
	+1367.3000		+92.7460	12/21/94	407212		
			PB-212	+3.9833	+2.7495	07/20/94	404110
				+0.1574	+1.8173	09/28/94	405549
				+0.4366	+1.7929	12/21/94	407212
		PB-214	+1.6269	+2.4405	12/07/94	406963	
	TL-208		+0.4542	+1.4997	12/07/94	406963	
	SR 89		-1.3399	+0.9320	03/02/94	401226	
				-0.1209	+0.6340	03/30/94	401801

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
2203 CRUMLEY FARM 16.0 MILES NE	SR 89	+0.8630	+1.2500	04/27/94	402405
		-1.1999	+0.8220	05/25/94	402990
		+0.3950	+0.8310	06/22/94	403580
		+0.4430	+0.9810	07/20/94	404110
		+0.4200	+0.8700	08/17/94	404660
		-0.1419	+0.7960	09/14/94	405238
		-0.0394	+1.0300	10/12/94	405814
		+1.0600	+0.8920	11/08/94	406420
		-0.8389	+0.8200	12/07/94	406963
		SR 90	+4.8700	+0.8190	03/02/94
	+1.3000		+0.5210	03/30/94	401801
	+0.4580		+0.8980	04/27/94	402405
	+2.2100		+0.5760	05/25/94	402990
	+0.9200		+0.5580	06/22/94	403580
	+0.7840		+0.6450	07/20/94	404110
	+0.7580		+0.5760	08/17/94	404660
	+1.3800		+0.5410	09/14/94	405238
	+1.4200		+0.6760	10/12/94	405814
	+0.7390		+0.5910	11/08/94	406420
	+1.5400	+0.5540	12/07/94	406963	
3115 LAYMAN FARM 1.3 MILES SW	IODINE-131	+0.0389	+0.0448	01/05/94	400209
		-0.0070	+0.0361	01/19/94	400443
		+0.0323	+0.0698	02/01/94	400733
		+0.0366	+0.0448	02/15/94	400984
		+0.0392	+0.0679	03/01/94	401266
		+0.0321	+0.1001	03/15/94	401550
		-0.0387	+0.0660	03/29/94	401841
		+0.0449	+0.0778	04/12/94	402111
		+0.0348	+0.0752	04/26/94	402463
		-0.0250	+0.0418	05/11/94	402768
		+0.0194	+0.0503	05/25/94	403029
		-0.0107	+0.0627	06/08/94	403305
		+0.0156	+0.0404	06/22/94	403621
		-0.0064	+0.0328	07/06/94	403865

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED	LAB NO		
3115 LAYMAN FARM 1.3 MILES SW	IODINE-131	-0.0389	+0.0861	07/20/94	404149		
		+0.0667	+0.0804	08/02/94	404392		
		-0.0114	+0.0364	08/17/94	404699		
		+0.0344	+0.0487	09/13/94	405277		
		+0.0130	+0.0487	09/27/94	405579		
		-0.0095	+0.0304	10/12/94	405854		
		-0.0157	+0.0370	10/26/94	406105		
		+0.0077	+0.0496	11/07/94	406459		
		-0.0219	+0.0661	11/21/94	406746		
		+0.0070	+0.0449	12/07/94	407003		
		-0.0125	+0.0397	12/20/94	407243		
		GAMMA SCAN (GELI)					
		BI-214		+10.5650	+3.4017	02/01/94	400733
				+5.5262	+3.5540	03/01/94	401266
				+65.1330	+6.0696	03/29/94	401841
+32.2630	+4.9841			04/26/94	402463		
+11.6050	+9.1731			05/11/94	402768		
+86.7570	+7.5432			05/25/94	403029		
+0.7603	+2.1076			06/08/94	403305		
+77.9640	+6.6582			08/17/94	404699		
+67.3480	+11.0930			08/30/94	404967		
+111.9900	+8.8268			09/27/94	405579		
+118.2500	+9.8673			10/12/94	405854		
+2.1115	+2.4236			10/26/94	406105		
K-40				+1380.8000	+91.3330	01/05/94	400209
		+1274.9000	+110.5700	02/01/94	400733		
		+1169.7000	+88.7350	03/01/94	401266		
		+1357.1000	+87.5020	03/15/94	401550		
		+1041.7000	+71.4920	03/29/94	401841		
		+1050.9000	+78.6520	04/12/94	402111		
		+1176.8000	+86.4960	04/26/94	402463		
		+1511.1000	+90.9020	05/11/94	402768		
		+950.0300	+91.6600	05/25/94	403029		
		+1265.6000	+92.4550	06/08/94	403305		
		+1319.2000	+86.6700	06/22/94	403621		
		+1167.6000	+97.4670	07/06/94	403865		
+1063.7000	+80.9580	07/20/94	404149				

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN MILK  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3115 LAYMAN FARM 1.3 MILES SW	GAMMA SCAN (GELI) K-40	+1427.9000	+103.0400	08/02/94	404392	
		+1247.5000	+112.4500	08/17/94	404699	
		+970.6700	+60.9330	08/30/94	404967	
		+1285.4000	+109.7900	09/13/94	405277	
		+1145.6000	+89.1830	09/27/94	405579	
		+881.4500	+75.5390	10/12/94	405854	
		+1360.0000	+93.2610	10/26/94	406105	
		+1632.5000	+103.7100	11/07/94	406459	
		+1533.2000	+98.7200	11/21/94	406746	
		+1362.7000	+99.6950	12/07/94	407003	
		+1384.5000	+98.6760	12/20/94	407243	
		PB-212	+0.4101	+1.7644	03/29/94	401841
			+1.6784	+3.1649	05/11/94	402768
			+1.9867	+2.3664	05/25/94	403029
	+1.2167		+2.6176	07/20/94	404149	
	+0.4354		+2.2051	09/13/94	405277	
	+0.8127		+1.3620	10/26/94	406105	
	PB-214	+2.7665	+2.9599	12/07/94	407003	
		+14.4310	+3.4112	02/01/94	400733	
		+63.7970	+7.3125	03/29/94	401841	
		+38.0990	+5.1218	04/26/94	402463	
		+83.2850	+7.2497	05/25/94	403029	
		+0.4426	+2.0450	06/08/94	403305	
		+68.8730	+5.9439	08/17/94	404699	
		+68.1710	+6.3043	08/30/94	404967	
		+102.9700	+8.9838	09/27/94	405579	
		+120.2000	+9.0844	10/12/94	405854	
	TL-208	+4.9206	+3.2635	10/26/94	406105	
		+1.3607	+1.1592	05/11/94	402768	
	SR 89					
			+0.0402	+0.6460	01/05/94	400209
			-0.9899	+0.7990	02/01/94	400733
			+1.0000	+0.6910	03/01/94	401266
			-0.6449	+0.6930	03/29/94	401841
		-0.1999	+0.6380	04/26/94	402463	
		+0.8040	+0.7710	05/25/94	403029	
		-0.3599	+0.7390	06/22/94	403621	

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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3115 LAYMAN FARM 1.3 MILES SW	SR 89	-0.6259	+0.8230	07/20/94 404149	
		+1.4100	+0.9430	08/17/94 404699	
		+0.0252	+0.9360	09/13/94 405277	
		-0.8089	+0.9090	10/12/94 405854	
		+0.3160	+1.0200	11/07/94 406459	
		+0.7700	+1.0100	12/07/94 407003	
		SR 90	+1.0200	+0.4860	01/05/94 400209
			+1.7700	+0.6130	02/01/94 400733
			+0.2590	+0.5450	03/01/94 401266
			+1.8900	+0.5690	03/29/94 401841
	+0.9870		+0.4880	04/26/94 402463	
	+0.2150		+0.5110	05/25/94 403029	
	+1.2500		+0.5080	06/22/94 403621	
	+1.7900		+0.5690	07/20/94 404149	
	+1.5300		+0.6450	08/17/94 404699	
	+1.5800		+0.6210	09/13/94 405277	
	+1.4400	+0.6140	10/12/94 405854		
	+1.7600	+0.6820	11/07/94 406459		
	+1.2900	+0.6700	12/07/94 407003		
	3116 MULLINS FARM 3.7 M. ESE	IODINE-131	+0.0372	+0.0323	01/05/94 400211
-0.1064			+0.0782	01/20/94 400445	
+0.0151			+0.0392	02/01/94 400735	
-0.0510			+0.0536	02/15/94 400985	
+0.0297			+0.0643	03/02/94 401269	
+0.0497			+0.1074	03/15/94 401551	
+0.0553			+0.0752	03/29/94 401844	
+0.0109			+0.0670	04/12/94 402112	
-0.0067			+0.0343	04/26/94 402466	
+0.0223			+0.0695	05/10/94 402769	
-0.0294			+0.0492	05/25/94 403032	
-0.0012			+0.0515	06/07/94 403306	
+0.0220			+0.0520	06/22/94 403624	
-0.0241			+0.0404	07/06/94 403866	
-0.0428			+0.0607	07/20/94 404152	

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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3116 MULLINS FARM 3.7 M. ESE	IODINE-131	+0.0122	+0.0456	08/02/94	404393		
		-0.0568	+0.0784	08/16/94	404703		
		+0.0001	+0.0715	08/30/94	404968		
		-0.0155	+0.0801	09/14/94	405281		
		-0.0385	+0.0853	09/28/94	405581		
		+0.0537	+0.0560	10/12/94	405857		
		-0.0547	+0.0755	10/25/94	406106		
		-0.0121	+0.0385	11/08/94	406463		
		-0.0163	+0.0386	11/21/94	406747		
		-0.0110	+0.0352	12/07/94	407006		
		-0.0833	+0.0819	12/21/94	407245		
		GAMMA SCAN (GELI)	BI-214	+4.1370	+11.2540	03/02/94	401269
				+6.3779	+9.6019	08/16/94	404703
				+1.0188	+2.4162	08/30/94	404968
	+1.2955			+2.3884	10/12/94	405857	
	+5.6694			+5.1682	10/25/94	406106	
	K-40		+13.4300	+3.6710	11/21/94	406747	
			+1365.7000	+140.1800	01/05/94	400211	
			+1490.6000	+103.0400	02/01/94	400735	
			+1253.0000	+82.2130	03/02/94	401269	
			+1494.9000	+97.2210	03/15/94	401551	
			+1699.5000	+114.3700	03/29/94	401844	
	+1301.9000	+89.4680	04/12/94	402112			
	+1406.8000	+94.0550	04/26/94	402466			
	+1418.1000	+85.8780	05/10/94	402769			
+1348.7000	+83.9080	05/25/94	403032				
+1360.1000	+99.6230	06/07/94	403306				
+1346.2000	+96.6920	06/22/94	403624				
+1351.2000	+94.2380	07/06/94	403866				
+1507.4000	+99.4980	07/20/94	404152				
+1265.2000	+91.0380	08/02/94	404393				
+1277.7000	+96.6380	08/16/94	404703				
+1316.8000	+88.8280	08/30/94	404968				
+1232.7000	+86.5180	09/14/94	405281				
+1351.6000	+88.9120	09/28/94	405581				
+1275.6000	+103.3600	10/12/94	405857				

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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM COLLECTED	LAB NO			
3116 MULLINS FARM 3.7 M. ESE	GAMMA SCAN (GELI) K-40	+1290.9000	+109.0400	10/25/94	406106		
		+1266.4000	+97.2580	11/08/94	406463		
		+1364.0000	+96.1560	11/21/94	406747		
		+1383.2000	+94.8350	12/07/94	407006		
		+1317.6000	+87.7370	12/21/94	407245		
		PB-212	+1.8312	+1.7514	08/30/94	404968	
			+11.0440	+3.3676	07/06/94	403866	
		PB-214	+1.3599	+1.9280	08/30/94	404968	
			+3.6525	+2.9646	10/25/94	406106	
		TL-208	+7.3948	+2.2532	11/21/94	406747	
	+1.7900		+1.1113	09/14/94	405281		
	SR 89		-0.2269	+0.6120	01/05/94	400211	
			-0.3929	+0.8030	02/01/94	400735	
			+0.3390	+0.7910	03/02/94	401269	
			+0.1980	+0.7030	03/29/94	401844	
			-0.1679	+0.7410	04/26/94	402466	
			-0.0598	+0.9330	05/25/94	403032	
			-0.2149	+0.8890	06/22/94	403624	
			+0.7120	+1.1000	07/20/94	404152	
			-0.1019	+0.9520	08/16/94	404703	
			-0.0510	+0.9060	09/14/94	405281	
			+0.2280	+0.8970	10/12/94	405857	
			+0.7800	+0.8270	11/08/94	406463	
			-0.0753	+0.9360	12/07/94	407006	
		SR 90		+0.5760	+0.4520	01/05/94	400211
				+1.7100	+0.6140	02/01/94	400735
			+1.8100	+0.6490	03/02/94	401269	
			+1.7300	+0.5920	03/29/94	401844	
			+1.6300	+0.6070	04/26/94	402466	
			+1.6600	+0.6340	05/25/94	403032	
	+1.7000		+0.6140	06/22/94	403624		
	+1.0100		+0.7340	07/20/94	404152		
	+2.3600		+0.6610	08/16/94	404703		
	+1.9500		+0.6250	09/14/94	405281		

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WATTS BAR NUCLEAR PLANT  
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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3116 MULLINS FARM 3.7 M. ESE	SR 90	+1.4800	+0.6060	10/12/94 405857		
		+0.7570	+0.5480	11/08/94 406463		
		+2.1700	+0.6410	12/07/94 407006		
3119 NORTON FARM 4.1 MILES ESE	IODINE-131	-0.0009	+0.0283	01/04/94 400212		
		+0.0379	+0.0820	01/20/94 400446		
		+0.0399	+0.0505	02/01/94 400736		
		-0.0061	+0.0314	02/15/94 400986		
		-0.0116	+0.0590	03/15/94 401552		
		-0.0075	+0.0384	03/29/94 401845		
		+0.0397	+0.0486	04/12/94 402113		
		+0.0457	+0.0578	04/26/94 402467		
		-0.0066	+0.0339	05/10/94 402770		
		+0.0030	+0.0679	05/25/94 403035		
		-0.0012	+0.0517	06/07/94 403307		
		-0.0065	+0.0336	06/22/94 403625		
		+0.0366	+0.0448	07/06/94 403867		
		-0.0109	+0.0349	07/20/94 404153		
		-0.0122	+0.0389	08/02/94 404394		
		-0.0117	+0.0374	08/16/94 404705		
		+0.0120	+0.0448	08/30/94 404969		
		+0.0204	+0.0676	09/14/94 405282		
		-0.0731	+0.0650	09/28/94 405582		
		+0.0103	+0.0386	10/12/94 405858		
		-0.0172	+0.0406	10/25/94 406107		
		+0.0306	+0.0510	11/08/94 406465		
		+0.0302	+0.0505	11/21/94 406748		
		+0.0306	+0.0512	12/07/94 407007		
		+0.0767	+0.0925	12/21/94 407246		
		GAMMA SCAN (GELI)				
			BI-214	+0.8864	+2.8618	02/01/94 400736
+4.8835	+8.5874			05/10/94 402770		
+2.0661	+3.0992			05/25/94 403035		
+4.3020	+2.9593			11/21/94 406748		
	CS-137	+1.7646	+3.2265	12/21/94 407246		
		+2.3692	+1.0950	02/01/94 400736		

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 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3119 NORTON FARM 4.1 MILES ESE	GAMMA SCAN (GELI) K-40	+1319.0000	+85.8000	01/04/94	400212		
		+1292.9000	+90.2540	02/01/94	400736		
		+1282.1000	+83.3940	03/15/94	401552		
		+1268.0000	+92.7020	03/29/94	401845		
		+1314.7000	+90.5290	04/12/94	402113		
		+1344.8000	+102.5300	04/26/94	402467		
		+1271.9000	+177.8600	05/10/94	402770		
		+1297.9000	+88.8260	05/25/94	403035		
		+1348.5000	+85.5510	06/07/94	403307		
		+1484.8000	+103.5700	06/22/94	403625		
		+1350.9000	+101.4900	07/06/94	403867		
		+1298.7000	+112.3400	07/20/94	404153		
		+1339.2000	+90.3700	08/02/94	404394		
		+1360.1000	+115.3900	08/16/94	404705		
		+1386.1000	+84.5370	08/30/94	404969		
		+1354.3000	+86.5240	09/14/94	405282		
		+1416.2000	+120.5600	09/28/94	405582		
		+1441.8000	+89.1270	10/12/94	405858		
		+1332.3000	+73.1650	10/25/94	406107		
		+1462.6000	+100.7600	11/08/94	406465		
		+1330.6000	+91.1310	11/21/94	406748		
		+1460.6000	+86.3350	12/07/94	407007		
		+1479.0000	+89.2860	12/21/94	407246		
		PB-212	+0.3854	+2.9414	03/29/94	401845	
			+3.4464	+2.2181	08/16/94	404705	
			+0.0540	+2.0695	09/28/94	405582	
		PB-214	+3.9865	+3.2324	10/25/94	406107	
			+8.3161	+3.4984	11/21/94	406748	
		TL-208	+0.3808	+1.0651	09/28/94	405582	
		SR 89					
				-0.4539	+0.6950	01/04/94	400212
				-0.2699	+0.8150	02/01/94	400736
				+0.3020	+0.6710	03/29/94	401845
				-0.0083	+0.7510	04/26/94	402467
				-0.0269	+0.9240	05/25/94	403035
				-0.7449	+0.7400	06/22/94	403625
		+1.1200	+1.0900	07/20/94	404153		

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 PCI/L - 0.037 BQ/L  
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STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3119 NORTON FARM 4.1 MILES ESE	SR 89	-1.3299	+0.9020	08/16/94 404705		
		-0.4349	+1.0100	09/14/94 405282		
		-0.1639	+0.9930	10/12/94 405858		
		+0.3910	+0.9770	11/08/94 406465		
		-0.3679	+1.0200	12/07/94 407007		
	SR 90	+1.6900	+0.5260	01/04/94 400212		
		+1.9500	+0.6250	02/01/94 400736		
		+0.8790	+0.5500	03/29/94 401845		
		+1.4000	+0.5710	04/26/94 402467		
		+1.7900	+0.6300	05/25/94 403035		
		+1.2900	+0.5140	06/22/94 403625		
		+0.6630	+0.7440	07/20/94 404153		
		+2.4500	+0.6300	08/16/94 404705		
		+2.4200	+0.6940	09/14/94 405282		
		+1.6500	+0.6650	10/12/94 405858		
		+1.7900	+0.6540	11/08/94 406465		
		+2.4300	+0.6930	12/07/94 407007		
		3209 OWEN HENDERSON FARM 4.8 MILES WSW	IODINE-131	+0.0489	+0.0599	03/15/94 401867
				+0.0491	+0.0621	03/29/94 402154
				-0.0240	+0.0402	04/12/94 402504
-0.0248	+0.0415			04/26/94 402811		
-0.0330	+0.0605			05/24/94 403052		
+0.0236	+0.0558			05/10/94 403059		
-0.0254	+0.0425			06/07/94 403320		
-0.0011	+0.0463			06/21/94 403641		
-0.0012	+0.0532			07/05/94 403876		
+0.0753	+0.0908			08/02/94 404403		
-0.0124	+0.0394			08/16/94 404722		
-0.0113	+0.0362			08/30/94 404978		
-0.0178	+0.0421			09/13/94 405298		
GAMMA SCAN (GELI)	CS-137			+3.8861	+1.0244	05/24/94 403052
				+3.9329	+0.7281	06/07/94 403320

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI) CS-137	+3.4669	+1.0348	07/05/94	403876	
		+5.7093	+0.8211	08/30/94	404978	
		+4.6446	+1.3835	09/13/94	405298	
	K-40	+1548.6000	+101.8800	03/15/94	401867	
		+1548.2000	+98.1270	03/29/94	402154	
		+1652.9000	+98.4530	04/12/94	402504	
		+1755.1000	+122.7600	04/26/94	402811	
		+1639.9000	+101.3600	05/24/94	403052	
		+1616.9000	+116.9100	05/10/94	403059	
		+1792.6000	+106.3800	06/07/94	403320	
		+1759.7000	+111.8200	06/21/94	403641	
		+1918.0000	+108.2000	07/05/94	403876	
		+1943.4000	+103.4600	08/02/94	404403	
		+1862.9000	+113.6400	08/16/94	404722	
		+1858.7000	+83.6830	08/30/94	404978	
		+1769.5000	+97.1270	09/13/94	405298	
		SR 89	PB-212	+1.2205	+1.1399	08/16/94
	-0.8659			+1.1500	03/29/94	402154
	SR 90		-0.7139	+1.0900	04/26/94	402811
			-0.0669	+1.4600	05/24/94	403052
			-0.4859	+1.6800	06/21/94	403641
			+0.4200	+1.2300	08/16/94	404722
			+1.8900	+1.5200	09/13/94	405298
			+8.2100	+1.0400	03/29/94	402154
			+6.5900	+0.9550	04/26/94	402811
			+7.7300	+1.0800	05/24/94	403052
			+6.0400	+1.1600	06/21/94	403641
+4.1300			+0.8520	08/16/94	404722	
+6.0600	+1.0500	09/13/94	405298			

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

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2122 SHADDON FARM 12.0 MILES NNE	IODINE-131	+1.1700	+3.6600	01/05/94	400166		
		-1.5099	+2.5600	02/02/94	400690		
		+0.8300	+2.6000	03/02/94	401222		
		+0.4900	+3.0000	03/30/94	401798		
		+2.0100	+2.4600	04/27/94	402380		
		+0.5800	+1.4900	05/25/94	402986		
		+0.7800	+2.0200	06/22/94	403577		
		+2.1200	+2.5900	07/20/94	404106		
		-0.4199	+1.3200	08/17/94	404657		
		-2.7699	+3.8100	09/14/94	405235		
		-0.4699	+1.5000	10/12/94	405811		
		-0.5799	+1.8500	11/08/94	406417		
		-0.7299	+3.7300	12/07/94	406960		
		GAMMA SCAN (GELI)					
		AC-228	+14.7470	+6.2874	03/02/94	401222	
			+13.7570	+6.6686	09/14/94	405235	
		BE-7	+4367.2000	+236.0100	01/05/94	400166	
+6960.7000	+411.4700		02/02/94	400690			
+2969.5000	+140.9400		03/02/94	401222			
+2300.6000	+126.4800		03/30/94	401798			
+252.7200	+26.7670		04/27/94	402380			
+527.8500	+65.7520		06/22/94	403577			
+265.3600	+30.2690		07/20/94	404106			
+515.1100	+41.8770		08/17/94	404657			
+125.3400	+20.0390		09/14/94	405235			
+392.2100	+39.2710		10/12/94	405811			
+761.8100	+59.0410		11/08/94	406417			
+758.5100	+51.0950		12/07/94	406960			
BI-214	+4.1000		+4.3930	03/30/94	401798		
	+8.7572		+4.7448	04/27/94	402380		
	+19.5830	+6.5608	07/20/94	404106			
	+5.4435	+5.9636	08/17/94	404657			
K-40	+21.9460	+7.5225	11/08/94	406417			
	+41.4740	+6.8903	12/07/94	406960			
	+4574.0000	+314.5200	01/05/94	400166			
	+7659.6000	+537.5000	02/02/94	400690			
	+2764.8000	+157.6000	03/02/94	401222			

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION  
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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2122 SHADDON FARM 12.0 MILES NNE	GAMMA SCAN (GELI) K-40	+6718.6000	+384.3200	03/30/94	401798	
		+6142.9000	+363.4000	04/27/94	402380	
		+5293.4000	+306.9000	05/25/94	402986	
		+6907.2000	+379.9500	06/22/94	403577	
		+4726.9000	+283.9000	07/20/94	404106	
		+4376.2000	+268.2900	08/17/94	404657	
		+4395.8000	+226.8900	09/14/94	405235	
		+4531.5000	+283.7700	10/12/94	405811	
		+5810.5000	+311.8500	11/08/94	406417	
		+4937.4000	+264.8800	12/07/94	406960	
		PB-212	+5.2874	+4.3292	03/30/94	401798
			+3.7968	+3.5185	04/27/94	402380
			+3.0323	+3.8851	07/20/94	404106
	+3.4853		+3.5891	08/17/94	404657	
	+3.0145		+2.5318	09/14/94	405235	
	+1.7651		+3.7184	11/08/94	406417	
	PB-214	+31.6940	+8.3218	01/05/94	400166	
		+5.2852	+2.7830	03/30/94	401798	
		+14.3060	+4.7567	11/08/94	406417	
	TL-208	+28.7070	+5.1746	12/07/94	406960	
		+4.1250	+3.8239	06/22/94	403577	
		+2.1517	+2.2896	10/12/94	405811	
	SR 89	+3.1984	+2.5351	11/08/94	406417	
		-0.7879	+3.1800	03/02/94	401222	
		+0.0711	+4.9100	05/25/94	402986	
		+0.3750	+6.7100	08/17/94	404657	
	SR 90	+9.4000	+9.3100	11/08/94	406417	
+8.5600		+2.0300	03/02/94	401222		
3115 LAYMAN FARM 1.3 MILES SW	IODINE-131	+5.5300	+2.1300	05/25/94	402986	
		+10.2500	+2.6700	08/17/94	404657	
		+12.5100	+3.8300	11/08/94	406417	
		-0.3299	+1.6800	03/01/94	401268	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3115 LAYMAN FARM 1.3 MILES SW	IODINE-131	+2.4300	+2.0900	03/29/94	401843		
		+1.1300	+2.6700	04/26/94	402465		
		+0.6900	+1.8000	05/25/94	403031		
		-1.0399	+1.7400	06/22/94	403623		
		+1.8300	+2.2500	07/20/94	404151		
		-0.4599	+1.4500	08/17/94	404701		
		+0.4400	+1.6300	09/13/94	405280		
		-0.5599	+1.7600	10/12/94	405856		
		+0.4100	+1.5400	11/07/94	406462		
		-0.4699	+1.5000	12/07/94	407005		
		GAMMA SCAN (GELI)					
		AC-228 BE-7		+9.4540	+5.3056	03/01/94	401268
				+2730.1000	+128.0200	03/01/94	401268
+1602.3000	+119.2000			03/29/94	401843		
+466.8000	+47.7100			05/25/94	403031		
+436.7300	+48.4220			06/22/94	403623		
+523.4000	+68.5050			07/20/94	404151		
+505.7500	+50.7610			08/17/94	404701		
+541.9100	+68.0790			09/13/94	405280		
+669.8300	+67.2990			10/12/94	405856		
+1607.0000	+91.7080			11/07/94	406462		
+1027.8000	+68.5070			12/07/94	407005		
BI-214				+21.8100	+7.0539	06/22/94	403623
				+16.1280	+7.8531	07/20/94	404151
		+13.6630	+10.8920	11/07/94	406462		
		+7.4569	+4.8961	12/07/94	407005		
K-40		+2990.5000	+170.1400	03/01/94	401268		
		+6732.7000	+408.9500	03/29/94	401843		
		+5693.5000	+371.8600	04/26/94	402465		
		+5208.6000	+285.9300	05/25/94	403031		
		+4915.9000	+283.2200	06/22/94	403623		
		+3771.1000	+237.8700	07/20/94	404151		
		+3408.3000	+201.6500	08/17/94	404701		
		+6507.2000	+358.1100	09/13/94	405280		
		+7182.5000	+428.1800	10/12/94	405856		
		+5216.1000	+356.8000	11/07/94	406462		
		+4964.1000	+267.1400	12/07/94	407005		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED	LAB NO	
3115 LAYMAN FARM 1.3 MILES SW	GAMMA SCAN (GELI) PB-212	+4.5473	+2.1856	03/01/94	401268	
		+8.8262	+5.2750	04/26/94	402465	
		+14.1240	+4.2171	06/22/94	403623	
		+6.2417	+4.3993	10/12/94	405856	
	PB-214	+33.0290	+8.0154	06/22/94	403623	
		+12.3530	+7.2875	11/07/94	406462	
	TL-208	+2.9595	+3.4554	11/07/94	406462	
	SR 89		-4.2099	+4.1100	03/01/94	401268
			+2.9600	+8.5900	05/25/94	403031
			+7.0600	+6.5900	08/17/94	404701
			+2.4900	+8.7200	11/07/94	406462
	SR 90		+12.1700	+2.7400	03/01/94	401268
			+10.9400	+3.7300	05/25/94	403031
			+4.0100	+2.3100	08/17/94	404701
		+11.5200	+3.5700	11/07/94	406462	
3116 MULLINS FARM 3.7 M. ESE	GAMMA SCAN (GELI) BE-7	+4083.9000	+183.6300	03/02/94	401270	
		+197.9100	+32.0810	05/25/94	403033	
		+760.6200	+60.9510	08/16/94	404704	
		+1041.2000	+74.0340	11/08/94	406464	
	BI-214 K-40	+39.6320	+8.8499	11/08/94	406464	
		+1370.5000	+100.7300	03/02/94	401270	
		+4239.2000	+268.5500	05/25/94	403033	
		+6292.5000	+380.1900	08/16/94	404704	
		+5068.8000	+315.9200	11/08/94	406464	
	PB-212	+13.0280	+3.5629	03/02/94	401270	
		+5.4820	+3.4135	05/25/94	403033	
	PB-214	+8.3216	+5.7152	03/02/94	401270	
		+21.9830	+8.0830	11/08/94	406464	
	SR 89					
		-4.1199	+3.0500	03/02/94	401270	
		+2.7100	+5.1600	05/25/94	403033	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3116 MULLINS FARM 3.7 M. ESE	SR 89	-9.5399	+10.7300	08/16/94 404704
		+6.4800	+6.5800	11/08/94 406464
	SR 90	+5.5200	+1.8600	03/02/94 401270
		+3.2400	+2.1100	05/25/94 403033
		+21.2800	+4.5100	08/16/94 404704
		+3.6800	+2.5000	11/08/94 406464
3119 NORTON FARM 4.1 MILES ESE	GAMMA SCAN (GELI) BE-7	+537.5301	+37.4290	03/02/94 401272
		+1226.5000	+140.1000	05/25/94 403036
		+920.7300	+73.1640	08/16/94 404706
		+1335.9000	+98.0890	11/08/94 406466
	BI-214	+39.6200	+7.8070	11/08/94 406466
	K-40	+4466.2000	+232.9100	03/02/94 401272
		+12121.0000	+746.0600	05/25/94 403036
		+4828.3000	+246.1000	08/16/94 404706
		+4652.9000	+267.3200	11/08/94 406466
	PB-212	+13.4010	+9.3216	05/25/94 403036
		+9.5356	+4.2035	11/08/94 406466
	PB-214	+27.8700	+5.7365	11/08/94 406466
	SR 89			
		+1.0600	+3.6200	03/02/94 401272
		+13.3000	+6.9200	08/16/94 404706
	SR 90	-0.7549	+8.8100	11/08/94 406466
	+11.9500	+2.4700	03/02/94 401272	
	+0.8130	+2.3100	08/16/94 404706	
	+5.2700	+3.3600	11/08/94 406466	
3209 OWEN HENDERSON FARM 4.8 MILES WSW	IODINE-131	-0.3499	+1.7800	03/01/94 401629
		-0.0699	+2.8300	03/29/94 401862
		-0.0699	+3.0000	04/26/94 402497
		+1.4600	+3.4600	05/24/94 403053

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
3209 OWEN HENDERSON FARM 4.8 MILES WSW	IODINE-131	-0.3799	+1.9100	06/21/94	403642		
		-2.0099	+3.3400	07/19/94	404170		
		-4.7499	+2.9500	08/16/94	404724		
		+0.5900	+2.1900	09/13/94	405299		
		+1.8600	+2.6300	10/11/94	405876		
		+3.0500	+3.1800	11/07/94	406483		
		-0.5899	+1.3800	12/06/94	407024		
		GAMMA SCAN (GELI)	BE-7	+2322.0000	+125.3800	03/01/94	401629
				+893.7600	+63.7990	03/29/94	401862
	+501.8100			+51.8380	04/26/94	402497	
	+309.4600			+63.8530	05/24/94	403053	
	+455.8300			+39.6870	07/19/94	404170	
	+371.0600			+43.8120	08/16/94	404724	
	+263.0300			+43.5070	09/13/94	405299	
	+1791.1000			+106.4900	10/11/94	405876	
	+428.3600			+36.3150	11/07/94	406483	
	+685.7500			+61.5970	12/06/94	407024	
	BI-214	+16.5450	+7.4167	04/26/94	402497		
		+21.4180	+8.4849	07/19/94	404170		
+4.1536		+3.7564	08/16/94	404724			
+29.5680		+6.3233	11/07/94	406483			
+6.2390		+4.1733	12/06/94	407024			
K-40		+4427.4000	+234.8700	03/01/94	401629		
	+6935.1000	+347.4500	03/29/94	401862			
	+5757.6000	+348.4000	04/26/94	402497			
	+6800.3000	+433.6300	05/24/94	403053			
	+5734.9000	+344.2900	06/21/94	403642			
	+3835.1000	+443.5700	07/19/94	404170			
	+5424.0000	+293.2300	08/16/94	404724			
	+4193.3000	+272.7100	09/13/94	405299			
	+4383.0000	+277.0100	10/11/94	405876			
	+6457.1000	+351.5000	11/07/94	406483			
	+5170.6000	+275.7400	12/06/94	407024			
	PB-212	+1.0541	+4.6782	04/26/94	402497		
		+20.2030	+4.5236	06/21/94	403642		
PB-214	+10.0710	+5.9193	04/26/94	402497			

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN WET VEGETATION  
 PCI/KG - 0.037 BQ/KG (WET WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI) PB-214	+17.3080	+4.4167	06/21/94 403642	
		+4.3396	+6.2040	07/19/94 404170	
	+27.4510	+9.1340	09/13/94 405299		
	+15.4820	+4.5664	11/07/94 406483		
	SR 89		-4.1199	+3.7900	03/01/94 401629
			-1.6399	+8.8800	05/24/94 403053
			-1.7199	+12.4800	08/16/94 404724
			-7.4899	+9.5500	11/07/94 406483
	SR 90		+8.0900	+2.3200	03/01/94 401629
			+4.0600	+3.5900	05/24/94 403053
			+25.4300	+5.2100	08/16/94 404724
			+18.5200	+4.1800	11/07/94 406483

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SOIL  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN 17.75 MILES. NNE	GAMMA SCAN (GELI)				
	AC-228	+1.5777	+0.0898	05/10/94	402714
		+0.5857	+0.0492	06/07/94	403253
	BI-212	+1.5005	+0.1471	05/10/94	402714
	BI-214	+1.0696	+0.0567	05/10/94	402714
		+0.5965	+0.0336	06/07/94	403253
	CS-137	+0.3025	+0.0205	06/07/94	403253
	K-40	+8.1002	+0.5140	05/10/94	402714
		+3.5563	+0.2801	06/07/94	403253
	PB-212	+1.4863	+0.0720	05/10/94	402714
		+0.5403	+0.0422	06/07/94	403253
	PB-214	+1.1346	+0.0499	05/10/94	402714
		+0.6011	+0.0377	06/07/94	403253
	RA-224	+1.6435	+0.2101	05/10/94	402714
	RA-226	+1.0696	+0.0567	05/10/94	402714
		+0.5965	+0.0336	06/07/94	403253
	TL-208	+0.5172	+0.0293	05/10/94	402714
		+0.1917	+0.0139	06/07/94	403253
	SR 89				
			+0.2700	+0.3020	05/10/94
		+0.2860	+0.2830	06/07/94	403253
SR 90					
		-0.0491	+0.1300	05/10/94	402714
		-0.0241	+0.1230	06/07/94	403253
3101 LM1 ENV DATA STA 0.5 MILES SSW	GAMMA SCAN (GELI)				
	AC-228	+0.7715	+0.0721	06/07/94	403288
	BE-7	+0.2903	+0.0547	06/07/94	403288
	BI-212	+0.9351	+0.1142	06/07/94	403288
	BI-214	+0.7356	+0.0387	06/07/94	403288
	CS-137	+0.1730	+0.0141	06/07/94	403288
	K-40	+3.2179	+0.2368	06/07/94	403288
	PB-212	+0.7191	+0.0407	06/07/94	403288
	PB-214	+0.8618	+0.0419	06/07/94	403288
	RA-224	+0.7271	+0.1172	06/07/94	403288
	RA-226	+0.7356	+0.0387	06/07/94	403288
	TL-208	+0.2481	+0.0177	06/07/94	403288

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 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SOIL  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
3101 LM1 ENV DATA STA 0.5 MILES SSW	SR 89					
	SR 90	+0.1610	+0.2840	06/07/94	403288	
		+0.0035	+0.1240	06/07/94	403288	
3102 LM2 N. WBSP GATE 0.5 MILES N	GAMMA SCAN (GELI)					
	AC-228	+1.1170	+0.0716	06/07/94	403292	
	BI-212	+1.1238	+0.1098	06/07/94	403292	
	BI-214	+0.7587	+0.0419	06/07/94	403292	
	CS-137	+0.3799	+0.0243	06/07/94	403292	
	K-40	+12.1460	+0.5878	06/07/94	403292	
	PB-212	+1.0269	+0.0453	06/07/94	403292	
	PB-214	+0.8019	+0.0446	06/07/94	403292	
	RA-224	+1.1519	+0.1535	06/07/94	403292	
	RA-226	+0.7587	+0.0419	06/07/94	403292	
	TL-208	+0.3528	+0.0240	06/07/94	403292	
	SR 89					
	SR 90		-0.1879	+0.2920	06/07/94	403292
		+0.1590	+0.1310	06/07/94	403292	
3106 PM2 SPRING CITY 7.0 MILES NW	GAMMA SCAN (GELI)					
	AC-228	+1.1564	+0.0882	06/07/94	403295	
	BI-212	+1.0927	+0.1032	06/07/94	403295	
	BI-214	+0.6444	+0.0379	06/07/94	403295	
	CS-137	+0.3174	+0.0201	06/07/94	403295	
	K-40	+13.9250	+0.6985	06/07/94	403295	
	PB-212	+1.0806	+0.0538	06/07/94	403295	
	PB-214	+0.7509	+0.0369	06/07/94	403295	
	RA-226	+0.6444	+0.0379	06/07/94	403295	
	TL-208	+0.3532	+0.0202	06/07/94	403295	
	SR 89					
	SR 90		+0.5950	+0.4080	06/07/94	403295
			-0.0269	+0.1730	06/07/94	403295

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SOIL  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3107 PM3 CEDINE BIBLE CAMP 11.5 M. NNE	GAMMA SCAN (GELI)				
	AC-228	+0.8041	+0.0569	06/07/94 403298	
	BE-7	+0.2782	+0.0373	06/07/94 403298	
	BI-212	+0.8050	+0.0908	06/07/94 403298	
	BI-214	+0.8299	+0.0492	06/07/94 403298	
	CS-137	+0.1654	+0.0138	06/07/94 403298	
	K-40	+3.6678	+0.2788	06/07/94 403298	
	PB-212	+0.7626	+0.0482	06/07/94 403298	
	PB-214	+0.8768	+0.0513	06/07/94 403298	
	RA-224	+0.7064	+0.1408	06/07/94 403298	
	RA-226	+0.8299	+0.0492	06/07/94 403298	
	TL-208	+0.2570	+0.0191	06/07/94 403298	
	SR 89				
	SR 90		-0.4389	+0.2740 06/07/94 403298	
3108 PM-4 TEN MILE 7.8 M. NE/ENE	GAMMA SCAN (GELI)	+0.2480	+0.1250	06/07/94 403298	
	AC-228	+1.4909	+0.1172	06/08/94 403301	
	BI-212	+1.7740	+0.1414	06/08/94 403301	
	BI-214	+0.6912	+0.0436	06/08/94 403301	
	K-40	+21.1500	+1.0134	06/08/94 403301	
	PB-212	+1.4763	+0.0958	06/08/94 403301	
	PB-214	+0.7155	+0.0427	06/08/94 403301	
	RA-226	+0.6912	+0.0436	06/08/94 403301	
	TL-208	+0.4961	+0.0300	06/08/94 403301	
	SR 89				
	SR 90		+0.1630	+0.2980 06/08/94 403301	
	3109 PM5 DECATUR 6.25 MILES S	GAMMA SCAN (GELI)	+0.0500	+0.1310	06/08/94 403301
		AC-228	+1.1798	+0.0929	06/08/94 403304
		BI-212	+1.0874	+0.1070	06/08/94 403304
BI-214		+0.8585	+0.0468	06/08/94 403304	

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 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3109 PMS DECATUR 6.25 MILES S	GAMMA SCAN (GELI)			
	CS-137	+0.2471	+0.0164	06/08/94 403304
	K-40	+9.1616	+0.4612	06/08/94 403304
	PB-212	+1.1316	+0.0645	06/08/94 403304
	PB-214	+0.9420	+0.0561	06/08/94 403304
	RA-226	+0.8585	+0.0468	06/08/94 403304
	TL-208	+0.3775	+0.0214	06/08/94 403304
	SR 89			
			+0.6800	+0.3560 06/08/94 403304
	SR 90			
			-0.1549	+0.1540 06/08/94 403304
	3203 LM-3 WB 2.1 MILES NNE	GAMMA SCAN (GELI)		
AC-228		+0.8665	+0.0765	06/07/94 403313
BI-212		+0.8917	+0.1168	<del>06/07/94 403313</del>
BI-214		+0.8795	+0.0545	06/07/94 403313
CS-137		+0.6025	+0.0311	06/07/94 403313
K-40		+3.6829	+0.2535	06/07/94 403313
PB-212		+0.8983	+0.0558	06/07/94 403313
PB-214		+0.9641	+0.1779	<del>06/07/94 403313</del>
RA-226		+0.8795	+0.0545	06/07/94 403313
TL-208		+0.2867	+0.0260	06/07/94 403313
SR 89				
			-0.1409	+0.3360 06/07/94 403313
SR 90				
		+0.1630	+0.1520 06/07/94 403313	
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI)			
	AC-228	+1.4508	+0.0880	06/07/94 403316
	BI-212	+1.5654	+0.1550	06/07/94 403316
	BI-214	+0.8252	+0.0444	06/07/94 403316
	CS-137	+0.0930	+0.0087	06/07/94 403316
	K-40	+29.8220	+1.3270	06/07/94 403316
	PB-212	+1.3505	+0.0624	06/07/94 403316
	PB-214	+0.9299	+0.0575	06/07/94 403316

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 RADIOACTIVITY IN SOIL  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3204 LM-4 WB 0.9 MILES SE	GAMMA SCAN (GELI)			
	RA-224	+1.2249	+0.1507	06/07/94 403316
	RA-226	+0.8252	+0.0444	06/07/94 403316
	TL-208	+0.5083	+0.0272	06/07/94 403316
	SR 89			
		+0.4120	+0.3790	06/07/94 403316
	SR 90			
		-0.0541	+0.1640	06/07/94 403316
3205 RM-3 WB 15 MILES NNW	GAMMA SCAN (GELI)			
	AC-228	+0.8129	+0.0602	06/07/94 403319
	BE-7	+0.2960	+0.0391	06/07/94 403319
	BI-212	+0.9419	+0.1046	06/07/94 403319
	BI-214	+0.8376	+0.0454	06/07/94 403319
	CS-137	+0.1539	+0.0149	06/07/94 403319
	K-40	+3.4189	+0.2164	06/07/94 403319
	PB-212	+0.7264	+0.0372	06/07/94 403319
	PB-214	+0.9333	+0.0526	06/07/94 403319
	RA-224	+0.8023	+0.1208	06/07/94 403319
	RA-226	+0.8376	+0.0454	06/07/94 403319
	TL-208	+0.2676	+0.0165	06/07/94 403319
	SR 89			
		+0.1180	+0.3410	06/07/94 403319
	SR 90			
		+0.1650	+0.1530	06/07/94 403319

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN APPLES  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN      17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+567.1400	+91.9880 08/30/94	402362
3209 OWEN HENDERSON FARM      4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+908.2800	+92.3710 08/16/94	402442

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN BEEF  
 PCI/KG - 0.037 BQ/KG (WET WT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN . 17.75 MILES NNE	GAMMA SCAN (GELI) BI-214 K-40	+11.4320	+6.0326	12/13/94 402433
		+2480.2000	+170.9800	12/13/94 402433
3119 NORTON FARM 4.1 MILES ESE	GAMMA SCAN (GELI) K-40	+2451.8000	+167.9900	12/07/94 402432

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN CABBAGE  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN      17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+1393.8000	+132.5800 08/30/94 402352
3168 2.0 MILES S	GAMMA SCAN (GELI) K-40 PB-214	+1295.3000 +3.7435	+163.5600 08/17/94 402437 +5.1509 08/17/94 402437

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN CORN  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI) K-40 PB-212	+2137.5000 +2.2328	+148.5300 10/11/94 402356 +3.4314 10/11/94 402356
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+2069.0000	+138.5200 08/16/94 402439

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN GREEN BEANS  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+1143.4000	+112.9100 08/30/94 402360
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+2038.1000	+166.0200 08/02/94 402440

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN POTATOES  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN      17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+2968.2000 +2058.9000	+202.9600 08/30/94 +174.8300 10/11/94	402354 406153
3209 OWEN HENDERSON FARM      4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+2930.4000	+201.7500 07/19/94	402438

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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN TOMATOES  
PCI/KG - 0.037 BQ/KG (WET WT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2116 RM-2 DAYTON TN      17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+2208.6000	+195.3500 08/30/94	402358
3209 OWEN HENDERSON FARM      4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+2254.4000	+196.4000 08/02/94	402441

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3133 TRM 529.3 1.5 MILES UPSTREAM	GROSS BETA	+1.5913	+0.5576	01/04/94	400214
		+2.2255	+0.6032	02/01/94	400738
		+3.4852	+0.6817	03/01/94	401274
		+3.2126	+0.6632	03/29/94	401848
		+2.8203	+0.6251	04/26/94	402469
		+1.9648	+0.5713	05/24/94	403038
		+2.3239	+0.5976	06/21/94	403627
		+2.3401	+0.6328	07/19/94	404155
		+2.9493	+0.6440	08/16/94	404708
		+2.7434	+0.6079	09/13/94	405284
		+1.3555	+0.5717	10/11/94	405860
		+2.3487	+0.5933	11/07/94	406468
		+2.0251	+0.5760	12/06/94	407009
		IODINE-131	+0.1633	+0.2066	01/04/94
	-0.0239		+0.1211	02/01/94	400738
	-0.0240		+0.1219	03/01/94	401274
	-0.0044		+0.1795	03/29/94	401848
	-0.0999		+0.1667	04/26/94	402469
	-0.0292		+0.1481	05/24/94	403038
	-0.0872		+0.1455	06/21/94	403627
	-0.0341		+0.0882	07/19/94	404155
	-0.0589		+0.1386	08/16/94	404708
	-0.0619		+0.1457	09/13/94	405284
	+0.0742		+0.2462	10/11/94	405860
	-0.0525		+0.1663	11/07/94	406468
	-0.0421		+0.1337	12/06/94	407009
	GAMMA SCAN (GELI)		NO ACTIVITY DETECTED		01/04/94
		NO ACTIVITY DETECTED		02/01/94	400738
NO ACTIVITY DETECTED			04/26/94	402469	
NO ACTIVITY DETECTED			05/24/94	403038	
NO ACTIVITY DETECTED			06/21/94	403627	
NO ACTIVITY DETECTED			07/19/94	404155	
NO ACTIVITY DETECTED			09/13/94	405284	
NO ACTIVITY DETECTED		10/11/94	405860		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM COLLECTED	LAB NO		
3133 TRM 529.3 1.5 MILES UPSTREAM	GAMMA SCAN (GELI) AC-228  BI-214  K-40 PB-212	+4.4450	+3.5907	03/29/94	401848	
		+5.2277	+4.2049	08/16/94	404708	
		+1.5830	+2.6227	08/16/94	404708	
		+4.8188	+2.8348	12/06/94	407009	
		+13.2760	+17.7930	08/16/94	404708	
		+1.3295	+1.1740	03/01/94	401274	
		+2.1709	+1.4561	11/07/94	406468	
		SR 89	-0.7309	+1.1500	03/01/94	401288
			+0.4510	+1.3000	05/24/94	403054
	-0.3339		+1.1600	08/16/94	404725	
	SR 90	+1.9600	+1.2800	12/06/94	407025	
		+0.6840	+0.5610	03/01/94	401288	
		+0.0627	+0.5620	05/24/94	403054	
		+0.7490	+0.5760	08/16/94	404725	
		-0.2889	+0.4950	12/06/94	407025	
	TRITIUM	+165.0000	+71.6100	03/01/94	401288	
		+182.3900	+78.3400	05/24/94	403054	
		+173.8200	+80.5500	08/16/94	404725	
+42.3400		+78.3500	12/06/94	407025		
3134 TRM 517.9 9.9 MILES DOWNSTREA		GROSS BETA	+2.2957	+0.5968	01/04/94	400216
	+2.3986		+0.6158	02/01/94	400740	
	+3.3454		+0.6708	03/01/94	401276	
	+2.2825		+0.6053	03/29/94	401850	
	+4.8242		+0.7412	04/26/94	402471	
	+2.8235		+0.6253	05/24/94	403040	
	+2.5711		+0.6158	06/21/94	403629	
	+1.8145		+0.6011	07/19/94	404157	
	+2.6943		+0.6249	08/16/94	404710	
	+2.8545		+0.6234	11/07/94	406470	
	+2.5141		+0.6027	12/06/94	407011	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3134 TRM 517.9	9.9 MILES DOWNSTREA GAMMA SCAN (GELI)	NO ACTIVITY DETECTED	01/04/94	400216		
		NO ACTIVITY DETECTED	03/01/94	401276		
		NO ACTIVITY DETECTED	03/29/94	401850		
		NO ACTIVITY DETECTED	06/21/94	403629		
		NO ACTIVITY DETECTED	07/19/94	404157		
		NO ACTIVITY DETECTED	08/16/94	404710		
		NO ACTIVITY DETECTED	11/07/94	406470		
		NO ACTIVITY DETECTED	12/06/94	407011		
		BI-214	+1.6660	+8.7746	04/26/94	402471
			+3.8087	+7.2840	05/24/94	403040
		K-40	+3.3457	+10.7420	04/26/94	402471
		TL-208	+1.0205	+1.0438	02/01/94	400740
		SR 89				
			-0.6009	+1.1800	03/01/94	401289
			+0.0646	+1.4700	05/24/94	403055
			-0.8919	+1.1700	08/16/94	404726
		SR 90	-1.4699	+1.1900	12/06/94	407026
			+0.6080	+0.5720	03/01/94	401289
			+0.8400	+0.6440	05/24/94	403055
			+1.0500	+0.5840	08/16/94	404726
		TRITIUM	+0.7250	+0.4780	12/06/94	407026
			+148.2200	+71.1900	03/01/94	401289
			-7.3699	+74.6200	05/24/94	403055
	+61.9600	+78.7500	08/16/94	404726		
	+17.9600	+79.1100	12/06/94	407026		
3135 TRM 523.1	4.7 MILES DOWNSTREA GROSS BETA	+1.8876	+0.5934	03/01/94	401277	
		+1.9614	+0.5895	03/29/94	401851	
		+5.1339	+0.7666	04/26/94	402472	
		+2.6214	+0.6177	06/21/94	403630	
		+3.4568	+0.6720	08/16/94	404711	
		+3.9892	+0.6905	09/13/94	405287	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3135 TRM 523.1 4.7 MILES DOWNSTREA	GROSS BETA	+3.7305	+0.6997	10/11/94	405863		
		+2.6375	+0.6119	11/07/94	406471		
		+3.6424	+0.6624	12/06/94	407012		
	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED			04/26/94	402472	
		NO ACTIVITY DETECTED			08/16/94	404711	
		NO ACTIVITY DETECTED			09/13/94	405287	
		NO ACTIVITY DETECTED			10/11/94	405863	
		NO ACTIVITY DETECTED			11/07/94	406471	
		AC-228	+7.5184	+5.3039	03/29/94	401851	
		K-40	+24.0700	+14.3720	12/06/94	407012	
		PB-212	+1.2429	+1.5842	03/01/94	401277	
		SR 89		+1.2807	+1.2130	06/21/94	403630
				+1.0600	+1.1600	03/01/94	401290
			+0.3060	+1.2800	05/24/94	403056	
	SR 90		+0.7470	+1.1400	08/16/94	404727	
			-0.5559	+1.1200	12/06/94	407027	
			-0.2189	+0.5480	03/01/94	401290	
	TRITIUM		-0.0138	+0.5470	05/24/94	403056	
			-0.0472	+0.5480	08/16/94	404727	
			+0.4240	+0.4460	12/06/94	407027	
			+92.2900	+69.8400	03/01/94	401290	
			+163.0800	+78.0200	05/24/94	403056	
		+168.0900	+79.7400	08/16/94	404727		
	+20.2000	+78.5100	12/06/94	407027			

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO		
			TERM	COLLECTED			
2116 RM-2 DAYTON TN 17.75 MILES NNE	GROSS BETA	+3.3365	+0.6556	01/25/94	400399		
		+2.0845	+0.5979	02/15/94	400940		
		+3.5699	+0.6712	03/15/94	401504		
		+1.7390	+0.5752	04/12/94	402066		
		+2.0850	+0.6002	05/10/94	402713		
		+1.6884	+0.5860	06/07/94	403252		
		+2.4766	+0.5934	07/12/94	403821		
		+1.4708	+0.5421	08/02/94	404347		
		+2.5932	+0.6320	08/30/94	404922		
		+1.9880	+0.5780	09/27/94	405536		
		+2.8291	+0.6177	10/25/94	406060		
		+2.7823	+0.6929	11/21/94	406687		
		+0.9496	+0.5401	12/20/94	407198		
		IODINE-131		+0.1644	+0.2850	02/15/94	400940
				+0.2413	+0.2071	04/12/94	402066
-0.1259	+0.2305			05/10/94	402713		
-0.0094	+0.0482			06/07/94	403252		
+0.0894	+0.2967			07/12/94	403821		
+0.0410	+0.1533			08/02/94	404347		
+0.1897	+0.3291			08/30/94	404922		
+0.0869	+0.2885			09/27/94	405536		
+0.1298	+0.2169			10/25/94	406060		
-0.0464	+0.1473			11/21/94	406687		
-0.0265	+0.0841			12/20/94	407198		
GAMMA SCAN (GEL1)				NO ACTIVITY DETECTED		04/12/94	402066
				NO ACTIVITY DETECTED		06/07/94	403252
				NO ACTIVITY DETECTED		07/12/94	403821
				NO ACTIVITY DETECTED		08/02/94	404347
		NO ACTIVITY DETECTED		09/27/94	405536		
AC-228		+0.1957	+6.2582	03/15/94	401504		
		+3.2624	+3.3207	11/21/94	406687		
K-40		+5.4527	+14.0100	02/15/94	400940		
		+1.0417	+2.1901	01/25/94	400399		
PB-212		+0.6035	+1.6480	05/10/94	402713		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
2116 RM-2 DAYTON TN 17.75 MILES NNE	GAMMA SCAN (GELI)	PB-212	+0.8484	+2.1333 08/30/94	404922
			+0.9371	+2.2979 11/21/94	406687
	PB-214	+2.3670	+2.5674 05/10/94	402713	
		+2.2818	+2.8595 10/25/94	406060	
	TL-208	+8.7342	+2.8744 12/20/94	407198	
		+1.3480	+1.3357 02/15/94	400940	
	SR 89	+0.1597	+1.2045 05/10/94	402713	
		+0.7891	+1.0713 10/25/94	406060	
	SR 90		-1.3999	+0.9610 03/15/94	401610
			+0.9250	+1.3000 06/07/94	403370
			+0.9890	+1.0700 08/30/94	405028
			+0.8320	+1.2400 12/20/94	407305
	TRITIUM		+1.0700	+0.5690 03/15/94	401610
			-0.1599	+0.6740 06/07/94	403370
			+0.0460	+0.6140 08/30/94	405028
			-0.0736	+0.5410 12/20/94	407305
	2140 CF INDUSTRIES TRM 473.0	GROSS BETA	+133.9500	+70.7000 03/15/94	401610
			+93.3400	+76.3300 06/07/94	403370
			+50.8200	+77.8600 08/30/94	405028
			+84.6400	+80.8900 12/20/94	407305
		+1.5214	+0.5491 01/24/94	400402	
		+3.3497	+0.6514 02/18/94	400943	
		+1.6235	+0.5537 03/07/94	401507	
		+1.9922	+0.5859 04/12/94	402069	
		+2.1455	+0.5930 05/11/94	402718	
		+1.7619	+0.5708 06/07/94	403257	
		+0.9568	+0.5018 07/05/94	403824	
		+2.6622	+0.5988 08/01/94	404351	
		+2.8450	+0.6268 08/25/94	404925	
+1.4897	+0.5338 09/29/94	405539			

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
2140 CF INDUSTRIES	TRM 473.0	GROSS BETA				
			+2.5289	+0.5966	10/26/94	406064
	+0.7634		+0.5667	11/21/94	406690	
			+1.8138	+0.5726	12/19/94	407201
		IODINE-131				
			+0.0963	+0.3003	02/18/94	400943
			+0.0440	+0.1504	03/07/94	401507
			+0.0946	+0.2241	04/12/94	402069
			-0.0264	+0.1338	05/11/94	402718
			-0.0388	+0.0648	06/07/94	403257
			+0.0924	+0.2188	07/05/94	403824
			-0.0443	+0.1405	08/01/94	404351
			+0.0758	+0.2836	08/25/94	404925
			+0.1187	+0.1683	09/29/94	405539
			+0.0004	+0.2635	10/26/94	406064
			+0.2332	+0.2432	11/21/94	406690
			+0.0842	+0.1406	12/19/94	407201
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		04/12/94	402069
			NO ACTIVITY DETECTED		06/07/94	403257
			NO ACTIVITY DETECTED		08/01/94	404351
			NO ACTIVITY DETECTED		08/25/94	404925
			NO ACTIVITY DETECTED		10/26/94	406064
			NO ACTIVITY DETECTED		11/21/94	406690
			NO ACTIVITY DETECTED		12/19/94	407201
		BI-214	+0.1559	+2.7998	07/05/94	403824
			+14.4220	+3.0928	09/29/94	405539
	K-40	+20.7800	+12.5880	01/24/94	400402	
		+17.4370	+14.0270	05/11/94	402718	
	PB-212	+0.4855	+2.6716	03/07/94	401507	
	PB-214	+9.0173	+2.6481	09/29/94	405539	
	TL-208	+0.1939	+0.8731	01/24/94	400402	
		+0.1627	+1.1381	02/18/94	400943	
		+1.6613	+1.3919	09/29/94	405539	
	SR 89					
		+0.7070	+1.0900	03/07/94	401611	

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 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
2140 CF INDUSTRIES TRM 473.0	SR 89	-0.4129	+1.1700	06/07/94 403371	
		+0.8540	+1.1000	08/25/94 405029	
		+0.8320	+1.4000	12/19/94 407306	
	SR 90	-0.1119	+0.5570	03/07/94 401611	
		+0.2610	+0.6150	06/07/94 403371	
		-0.4099	+0.5850	08/25/94 405029	
		-0.0153	+0.5970	12/19/94 407306	
	TRITIUM	+128.5300	+70.6500	03/07/94 401611	
		+180.6400	+77.8700	06/07/94 403371	
		+102.7200	+78.3200	08/25/94 405029	
		-22.8599	+78.4400	12/19/94 407306	
	3133 TRM 529.3 1.5 MILES UPSTREAM	GROSS BETA	+1.5913	+0.5576	01/04/94 400214
			+2.2255	+0.6032	02/01/94 400738
+3.4852			+0.6817	03/01/94 401274	
+3.2126			+0.6632	03/29/94 401848	
+2.8203			+0.6251	04/26/94 402469	
+1.9648			+0.5713	05/24/94 403038	
+2.3239			+0.5976	06/21/94 403627	
+2.3401			+0.6328	07/19/94 404155	
+2.9493			+0.6440	08/16/94 404708	
+2.7434			+0.6079	09/13/94 405284	
+1.3555			+0.5717	10/11/94 405860	
IODINE-131		+2.3487	+0.5933	11/07/94 406468	
		+2.0251	+0.5760	12/06/94 407009	
		+0.1633	+0.2066	01/04/94 400214	
		-0.0239	+0.1211	02/01/94 400738	
		-0.0240	+0.1219	03/01/94 401274	
		-0.0044	+0.1795	03/29/94 401848	
		-0.0999	+0.1667	04/26/94 402469	
		-0.0292	+0.1481	05/24/94 403038	

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 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3133 TRM 529.3 1.5 MILES UPSTREAM	IODINE-131	-0.0872	+0.1455	06/21/94	403627		
		-0.0341	+0.0882	07/19/94	404155		
		-0.0589	+0.1386	08/16/94	404708		
		-0.0619	+0.1457	09/13/94	405284		
		+0.0742	+0.2462	10/11/94	405860		
		-0.0525	+0.1663	11/07/94	406468		
		-0.0421	+0.1337	12/06/94	407009		
		GAMMA SCAN (GELI)	NO ACTIVITY DETECTED			01/04/94	400214
			NO ACTIVITY DETECTED			02/01/94	400738
	NO ACTIVITY DETECTED				04/26/94	402469	
	NO ACTIVITY DETECTED				05/24/94	403038	
	NO ACTIVITY DETECTED				06/21/94	403627	
	NO ACTIVITY DETECTED				07/19/94	404155	
	NO ACTIVITY DETECTED				09/13/94	405284	
	NO ACTIVITY DETECTED				10/11/94	405860	
	AC-228		+4.4450	+3.5907	03/29/94	401848	
			+5.2277	+4.2049	08/16/94	404708	
	BI-214	+1.5830	+2.6227	08/16/94	404708		
		+4.8188	+2.8348	12/06/94	407009		
K-40	+13.2760	+17.7930	08/16/94	404708			
PB-212	+1.3295	+1.1740	03/01/94	401274			
	+2.1709	+1.4561	11/07/94	406468			
SR 89							
		-0.7309	+1.1500	03/01/94	401288		
		+0.4510	+1.3000	05/24/94	403054		
		-0.3339	+1.1600	08/16/94	404725		
SR 90		+1.9600	+1.2800	12/06/94	407025		
		+0.6840	+0.5610	03/01/94	401288		
		+0.0627	+0.5620	05/24/94	403054		
		+0.7490	+0.5760	08/16/94	404725		
TRITIUM		-0.2889	+0.4950	12/06/94	407025		
		+165.0000	+71.6100	03/01/94	401288		

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RADIOACTIVITY IN CONTINUOUS PUBLIC WATER  
PCI/L - 0.037 BQ/L  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM TRITIUM	+182.3900	+78.3400	05/24/94 403054
		+173.8200	+80.5500	08/16/94 404725
		+42.3400	+78.3500	12/06/94 407025

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GRAB PUBLIC WATER(Total)  
 PCI/L - 0.037 Bq/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3127 SPRING CITY 7.6 MILES NW	GROSS BETA	+1.3903	+0.5516	01/19/94	400447		
		+0.3682	+0.5074	02/15/94	400987		
		+1.4336	+0.5499	03/15/94	401553		
		+1.3948	+0.5307	04/12/94	402114		
		+1.0053	+0.5397	05/10/94	402771		
		+0.6071	+0.5429	06/07/94	403308		
		+0.6640	+0.5031	07/05/94	403868		
		+1.4987	+0.5521	08/02/94	404395		
		+1.3992	+0.5679	08/30/94	404970		
		+1.5907	+0.5521	09/27/94	405583		
		+1.1435	+0.5239	10/25/94	406108		
		+1.5034	+0.5545	11/21/94	406749		
		+1.6206	+0.5812	12/20/94	407247		
		GAMMA SCAN (GELI)	NO ACTIVITY DETECTED			02/15/94	400987
			NO ACTIVITY DETECTED			03/15/94	401553
			NO ACTIVITY DETECTED			08/02/94	404395
			NO ACTIVITY DETECTED			08/30/94	404970
	NO ACTIVITY DETECTED				09/27/94	405583	
	BI-214		+2.9097	+3.3735	01/19/94	400447	
			+6.6382	+3.2156	04/12/94	402114	
			+5.0038	+1.9859	05/10/94	402771	
			+9.1153	+3.1645	06/07/94	403308	
			+6.8589	+3.3587	07/05/94	403868	
	PB-212	+18.2030	+3.7799	11/21/94	406749		
		+4.3885	+3.9478	12/20/94	407247		
		+1.2223	+1.3273	05/10/94	402771		
	PB-214	+1.2076	+1.7345	10/25/94	406108		
+4.9211		+3.0173	04/12/94	402114			
+1.6407		+2.2820	05/10/94	402771			
+3.2545		+2.7254	06/07/94	403308			
+5.0421		+2.7188	07/05/94	403868			
+16.8450		+2.9529	11/21/94	406749			
SR 89		-0.2379	+1.1600	03/15/94	401626		
		+0.8000	+1.2400	06/07/94	403386		

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GRAB PUBLIC WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3127 SPRING CITY	7.6 MILES NW	SR 89	+1.9000	+1.3000	08/30/94	405044		
			+0.8590	+1.1900	12/20/94	407321		
		SR 90	+0.4490	+0.6270	03/15/94	401626		
			-0.1449	+0.5830	06/07/94	403386		
			-0.8479	+0.5910	08/30/94	405044		
			-0.0621	+0.5120	12/20/94	407321		
		TRITIUM	+117.2100	+70.2900	03/15/94	401626		
			+48.8200	+75.2800	06/07/94	403386		
			-49.4699	+77.8700	08/30/94	405044		
			+114.3100	+80.8100	12/20/94	407321		
		3128 WB RESERVATION	TRM 529.9	GROSS BETA	+1.3371	+0.5490	01/19/94	400448
					+1.9098	+0.5881	02/15/94	400989
+0.9103	+0.5314				03/15/94	401554		
+1.1684	+0.5140				04/12/94	402115		
+1.6110	+0.5749				05/10/94	402772		
+0.2727	+0.5355				06/07/94	403310		
+0.8086	+0.4994				07/05/94	403869		
+0.9206	+0.5075				08/02/94	404396		
+1.3409	+0.5644				08/30/94	404971		
+0.9220	+0.5100				09/27/94	405584		
+1.8313	+0.5581				10/25/94	406109		
+1.3125	+0.5351				11/21/94	406750		
+0.4791	+0.5112				12/20/94	407248		
GAMMA SCAN (GELI)	BI-214			+32.0090	+5.1401	01/19/94	400448	
				+28.6040	+4.2639	02/15/94	400989	
				+26.8160	+3.1669	03/15/94	401554	
				+17.1860	+4.3594	04/12/94	402115	
				+4.7526	+3.0970	05/10/94	402772	
				+26.7590	+4.0957	07/05/94	403869	
				+7.1998	+2.6668	08/02/94	404396	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN GRAB PUBLIC WATER(Total)  
 PCI/L - 0.037 BQ/L  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE			
			TERM	COLLECTED LAB NO		
3128 WB RESERVATION TRM 529.9	GAMMA SCAN (GELI)	BI-214	+27.1730	+3.4349 08/30/94	404971	
			+22.0660	+3.5599 09/27/94	405584	
			+42.7390	+4.4812 10/25/94	406109	
			+30.3230	+6.2910 11/21/94	406750	
			+40.4830	+6.2263 12/20/94	407248	
		K-40	+1.2279	+14.6450 04/12/94	402115	
			+21.0150	+15.5790 06/07/94	403310	
			+11.8880	+10.3140 08/02/94	404396	
			+6.1086	+18.7660 10/25/94	406109	
		PB-212	+2.0426	+1.6723 05/10/94	402772	
			+1.3473	+1.6004 09/27/94	405584	
		PB-214	+30.9970	+5.2535 01/19/94	400448	
			+28.7220	+4.8174 02/15/94	400989	
			+25.8010	+4.7055 03/15/94	401554	
			+21.6650	+7.5396 04/12/94	402115	
			+4.1670	+5.0395 05/10/94	402772	
			+25.9860	+3.7430 07/05/94	403869	
			+4.5730	+2.3703 08/02/94	404396	
			+23.4100	+4.4577 08/30/94	404971	
			+20.0590	+3.5311 09/27/94	405584	
			+35.1470	+3.8704 10/25/94	406109	
			+33.9980	+5.9881 11/21/94	406750	
			+31.6050	+5.0121 12/20/94	407248	
		SR 89		+1.8000	+1.2800 03/15/94	401627
				+2.6700	+1.3900 06/07/94	403387
				-0.5089	+1.2100 08/30/94	405045
				+2.4400	+1.1000 12/20/94	407322
		SR 90		-0.6169	+0.6670 03/15/94	401627
				-1.0499	+0.6350 06/07/94	403387
				+0.1790	+0.5660 08/30/94	405045
				-0.7729	+0.4630 12/20/94	407322
			TRITIUM			
				+100.4600	+69.8900 03/15/94	401627

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

WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN GRAB PUBLIC WATER(Total)  
PCI/L - 0.037 BQ/L  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
3128 WB RESERVATION	TRM 529.9	TRITIUM	
		+24.4100	+74.8500 06/07/94 403387
		-98.9399	+77.2000 08/30/94 405045
		-2.5399	+78.7400 12/20/94 407322

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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
3121 WBN WELL #1	ONSITE S	GROSS BETA					
			+4.9529	+1.1809	03/29/94	401847	
			+10.0470	+2.0235	04/26/94	402468	
			+5.3738	+1.1735	05/24/94	403037	
			+6.3829	+1.2344	06/21/94	403626	
			+11.9950	+1.4452	07/19/94	404154	
			+6.3439	+1.1835	08/16/94	404707	
			+9.5223	+1.3747	09/13/94	405283	
			+9.5329	+2.7927	10/11/94	405859	
			+6.7714	+1.2581	11/07/94	406467	
			+10.9070	+1.4102	12/06/94	407008	
			GAMMA SCAN (GELI)				
			AC-228	+6.0231	+3.3740	06/21/94	403626
			BI-214	+194.4800	+16.0060	01/04/94	400213
				+15.0590	+3.8530	02/01/94	400737
			+6.5015	+2.8444	03/01/94	401273	
			+2.0110	+3.1797	03/29/94	401847	
			+14.7290	+8.5553	04/26/94	402468	
			+10.2280	+3.4212	05/24/94	403037	
			+1.3681	+1.9390	06/21/94	403626	
			+0.6194	+2.6639	07/19/94	404154	
			+5.9649	+3.2963	08/16/94	404707	
			+10.8590	+3.7279	09/13/94	405283	
			+7.7146	+3.7277	10/11/94	405859	
			+16.6820	+10.1320	11/07/94	406467	
			+9.6892	+4.7871	12/06/94	407008	
		K-40	+7.6230	+22.0910	04/26/94	402468	
			+23.8760	+14.1650	11/07/94	406467	
		PB-212	+1.6417	+1.7309	06/21/94	403626	
			+0.4439	+1.5947	09/13/94	405283	
		PB-214	+202.3900	+14.6490	01/04/94	400213	
			+10.4640	+3.2486	02/01/94	400737	
			+6.7085	+2.6149	03/01/94	401273	
		+0.9849	+1.8783	04/26/94	402468		
		+13.8280	+3.7383	05/24/94	403037		
		+1.1921	+2.0499	06/21/94	403626		
		+2.8360	+3.2787	07/19/94	404154		
		+3.1222	+2.3414	08/16/94	404707		

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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3121 WBN WELL #1 ONSITE S	GAMMA SCAN (GELI) PB-214	+6.6411	+4.0346	09/13/94	405283
		+1.1965	+4.0834	10/11/94	405859
		+5.2057	+3.1063	11/07/94	406467
		+9.1490	+3.4896	12/06/94	407008
	TL-208 SR 89	+0.6666	+1.2583	04/26/94	402468
			+1.8500	+1.2600	05/24/94
		-0.7949	+1.0700	08/16/94	404728
	SR 90	+0.2680	+0.9440	12/06/94	407028
			-0.3779	+0.5310	05/24/94
		+0.6500	+0.5290	08/16/94	404728
	TRITIUM	+0.0379	+0.3730	12/06/94	407028
		+216.0100	+79.3300	03/01/94	401291
		+105.7200	+76.6800	05/24/94	403057
		+117.9100	+78.7200	08/16/94	404728
	-17.6799	+77.9100	12/06/94	407028	

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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE				
			TERM	COLLECTED LAB NO			
3115 LAYMAN FARM 1.3 MILES SW	GROSS BETA	+0.6099	+0.4945	03/29/94	401840		
		+0.9677	+0.5077	04/26/94	402462		
		+1.1867	+0.5211	05/25/94	403028		
		+1.0586	+0.5439	06/22/94	403619		
		+1.3395	+0.5616	07/20/94	404148		
		+1.1827	+0.5201	08/17/94	404698		
		+1.4189	+0.5397	09/13/94	405276		
		+1.1476	+0.5461	10/12/94	405853		
		+1.0799	+0.5155	11/07/94	406458		
		+1.0214	+0.5107	12/07/94	407002		
		GAMMA SCAN (GELI)	AC-228	+5.9266	+5.0457	10/12/94	405853
				+6.1743	+2.8880	01/05/94	400208
	+230.7600			+13.7510	02/01/94	400732	
	BI-214		+311.6200	+17.8330	03/01/94	401265	
			+180.3900	+12.4120	03/29/94	401840	
			+168.0000	+11.1520	04/26/94	402462	
			+199.9800	+14.7690	05/25/94	403028	
			+242.0700	+14.5450	06/22/94	403619	
			+205.0800	+13.1540	07/20/94	404148	
			+200.5700	+11.3800	08/17/94	404698	
			+156.4500	+10.6950	09/13/94	405276	
			+305.8000	+19.6860	10/12/94	405853	
			+193.9600	+12.0440	11/07/94	406458	
			+473.5000	+23.4560	12/07/94	407002	
			K-40	+6.3249	+25.6350	04/26/94	402462
				+25.8000	+29.6120	06/22/94	403619
				+13.4150	+20.0100	08/17/94	404698
			PB-212	+1.1355	+19.9800	10/12/94	405853
	+3.3879	+2.6169		06/22/94	403619		
	PB-214	+9.0701	+3.1045	01/05/94	400208		
		+218.5200	+12.6700	02/01/94	400732		
		+318.4000	+16.8540	03/01/94	401265		
		+170.3100	+10.6150	03/29/94	401840		
+164.0000		+11.5550	04/26/94	402462			
+203.8800		+11.1500	05/25/94	403028			
+246.4700		+15.8790	06/22/94	403619			

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  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO	
3115 LAYMAN FARM	1.3 MILES SW	GAMMA SCAN (GELI) PB-214	+212.7000	+12.0670	07/20/94	404148	
			+204.4300	+12.7830	08/17/94	404698	
			+162.2400	+10.3890	09/13/94	405276	
			+305.4200	+18.1640	10/12/94	405853	
			+220.0200	+13.1350	11/07/94	406458	
			+481.2900	+25.9560	12/07/94	407002	
			SR 89				
			-1.6799	+1.4000	05/25/94	403058	
			+0.5190	+1.1600	08/17/94	404729	
			+0.3920	+1.1400	12/07/94	407029	
		SR 90					
			+0.7310	+0.6140	05/25/94	403058	
			+0.0374	+0.5640	08/17/94	404729	
			-0.1159	+0.4470	12/07/94	407029	
TRITIUM							
	+99.3500	+76.4700	03/01/94	401292			
	+36.6900	+75.2100	05/25/94	403058			
	+120.4000	+78.7600	08/17/94	404729			
	-34.8599	+77.1000	12/07/94	407029			

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION  
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CHANNEL CATFISH FLESH  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2159 NICKAJACK RES	TRM 425-471	GAMMA SCAN (GELI) K-40	+9.8528	+0.7298 04/12/94 402388
			+11.1770	+0.6601 11/11/94 406698
			PB-212	+0.0055
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI) CS-137	+0.0285	+0.0060 04/12/94 402392
			+0.0442	+0.0101 11/11/94 406703
			K-40	+9.4195
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI) K-40	+14.8260	+0.8902 11/11/94 406703
			+13.1110	+0.6908 04/12/94 402398
			+17.2810	+0.8961 11/11/94 406709

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

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CRAPPIE FLESH  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2159 NICKAJACK RES TRM 425-471	GAMMA SCAN (GELI)			
	CS-137	+0.0598	+0.0085	04/12/94 402390
	K-40	+16.1880	+0.8145	04/12/94 402390
		+20.1690	+0.9443	11/11/94 406701
2160 CHICKAMAUGA RES TRM 471-530	GAMMA SCAN (GELI)			
	CS-137	+0.0891	+0.0099	04/12/94 402395
		+0.0680	+0.0101	11/11/94 406707
	K-40	+15.8690	+0.7708	04/12/94 402395
		+17.3950	+0.8848	11/11/94 406707
	PB-214	+0.0129	+0.0082	04/12/94 402395
2161 WATTS BAR RES TRM 530-602	GAMMA SCAN (GELI)			
	CS-137	+0.1013	+0.0095	04/12/94 402401
		+0.0827	+0.0126	11/11/94 406711
	K-40	+16.9220	+0.7325	04/12/94 402401
		+18.0910	+0.9001	11/11/94 406711

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

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SMALLMOUTH BUFFALO FLESH  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO		
2159 NICKAJACK RES	TRM 425-471	GAMMA SCAN (GELI) CS-137 K-40	+0.0481	+0.0057	04/12/94	402389		
			+6.7228	+0.4213	04/12/94	402389		
			+12.5350	+0.7112	11/11/94	406700		
		SR 89		-0.0218	+0.0479	04/12/94	402389	
				+0.0148	+0.0551	11/11/94	406700	
		SR 90		+0.0093	+0.0089	04/12/94	402389	
				+0.0044	+0.0158	11/11/94	406700	
		2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI) CS-137 K-40	+0.0391	+0.0052	04/12/94	402394
					+0.0285	+0.0066	11/11/94	406705
					+10.1470	+0.6004	04/12/94	402394
SR 89				+11.2880	+0.6662	11/11/94	406705	
				+0.0700	+0.0759	04/12/94	402394	
SR 90				-0.0431	+0.0458	11/11/94	406705	
				+0.0016	+0.0137	04/12/94	402394	
	+0.0225			+0.0136	11/11/94	406705		
2161 WATTS BAR RES	TRM 530-602			GAMMA SCAN (GELI) CS-137 K-40	+0.0415	+0.0053	04/12/94	402399
					+0.0464	+0.0079	11/11/94	406710
		+9.7724	+0.5697		04/12/94	402399		
		SR 89		+15.6570	+0.9050	11/11/94	406710	
				+0.0174	+0.0110	11/11/94	406710	
		SR 90		-0.0009	+0.1090	04/12/94	402399	
				+0.0053	+0.0624	11/11/94	406710	
			+0.0182	+0.0203	04/12/94	402399		

TENNESSEE VALLEY AUTHORITY  
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION  
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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN SMALLMOUTH BUFFALO FLESH  
PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2161 WATTS BAR RES      TRM 530-602	SR 90	+0.0179	+0.0181 11/11/94 406710



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

WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN SMALLMOUTH BUFFALO WHOLE  
PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE TERM COLLECTED LAB NO
2161 WATTS BAR RES TRM 530-602	SR 89		
		+0.0807	+0.1660 11/11/94 406712
	SR 90		
		+0.1180	+0.0483 04/12/94 402402
		+0.1320	+0.0506 11/11/94 406712

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

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SEDIMENT  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
2155 TRM 496.50	GAMMA SCAN (GELI)			
	AC-228	+1.0736	+0.0983	05/05/94 402387
		+1.4313	+0.1067	10/04/94 406226
	BE-7	+0.3139	+0.0765	05/05/94 402387
		+1.3485	+0.1974	10/04/94 406226
	BI-212	+1.0165	+0.1154	05/05/94 402387
		+1.3230	+0.2306	10/04/94 406226
	BI-214	+0.7215	+0.0470	05/05/94 402387
		+0.8270	+0.0570	10/04/94 406226
	CS-137	+0.3490	+0.0255	05/05/94 402387
		+0.8119	+0.0541	10/04/94 406226
	K-40	+12.4330	+0.6818	05/05/94 402387
		+15.0360	+0.9684	10/04/94 406226
	PB-212	+1.0382	+0.0608	05/05/94 402387
		+1.2854	+0.0771	10/04/94 406226
	PB-214	+0.8179	+0.0486	05/05/94 402387
		+0.8055	+0.0809	10/04/94 406226
	RA-224	+1.4920	+0.2457	10/04/94 406226
	RA-226	+0.7215	+0.0470	05/05/94 402387
		+0.8270	+0.0570	10/04/94 406226
TL-208	+0.3199	+0.0236	05/05/94 402387	
	+0.4473	+0.0323	10/04/94 406226	
SR 89				
		-0.5689	+0.3790 05/05/94 402387	
		+0.0749	+0.4740 10/04/94 406226	
SR 90				
		+0.7190	+0.1820 05/05/94 402387	
		+0.0643	+0.1150 10/04/94 406226	
3140 TRM 532.1	4.3 MILES UPSTREAM GAMMA SCAN (GELI)			
	AC-228	+1.0575	+0.0655	05/04/94 402477
		+0.6937	+0.0556	10/03/94 406277
	BE-7	+0.6041	+0.0583	05/04/94 402477
		+0.1799	+0.0425	10/03/94 406277
	BI-212	+1.0693	+0.1091	05/04/94 402477
	+0.7240	+0.0992	10/03/94 406277	
BI-214	+0.6111	+0.0432	05/04/94 402477	

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 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION  
 WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SEDIMENT  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3140 TRM 532.1 4.3 MILES UPSTREAM	GAMMA SCAN (GELI)				
	BI-214	+0.4596	+0.0273	10/03/94 406277	
	CO-60	+0.0201	+0.0117	05/04/94 402477	
	CS-137	+0.3114	+0.0207	05/04/94 402477	
		+0.1956	+0.0127	10/03/94 406277	
	K-40	+9.9003	+0.5238	05/04/94 402477	
		+3.4397	+0.2031	10/03/94 406277	
	PB-212	+0.9283	+0.0437	05/04/94 402477	
		+0.6524	+0.0343	10/03/94 406277	
	PB-214	+0.7862	+0.0446	05/04/94 402477	
		+0.4953	+0.0321	10/03/94 406277	
	RA-224	+1.0054	+0.1325	05/04/94 402477	
		+0.7179	+0.1054	10/03/94 406277	
	RA-226	+0.6111	+0.0432	05/04/94 402477	
		+0.4596	+0.0273	10/03/94 406277	
	TL-208	+0.3248	+0.0211	05/04/94 402477	
		+0.2109	+0.0119	10/03/94 406277	
	SR 89				
			-0.3099	+0.3540	05/04/94 402477
			+0.6330	+0.4740	10/03/94 406277
SR 90					
		+0.5620	+0.1620	05/04/94 402477	
		-0.1229	+0.1090	10/03/94 406277	
3141 TRM 527.4 0.4 MILES DOWNSTREA	GAMMA SCAN (GELI)				
	AC-228	+17.4780	+0.7304	05/04/94 402481	
		+2.4912	+0.1230	10/03/94 406281	
	BI-212	+17.8710	+0.9881	05/04/94 402481	
		+2.5245	+0.1804	10/03/94 406281	
	BI-214	+8.3300	+0.3357	05/04/94 402481	
		+1.3483	+0.0646	10/03/94 406281	
	CS-137	+0.0670	+0.0098	10/03/94 406281	
	K-40	+12.4410	+0.6973	05/04/94 402481	
		+12.8330	+0.6576	10/03/94 406281	
	PB-212	+16.1540	+0.5603	05/04/94 402481	
	+2.2777	+0.1284	10/03/94 406281		
PB-214	+9.0178	+0.4037	05/04/94 402481		

TENNESSEE VALLEY AUTHORITY  
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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SEDIMENT  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO
			TERM	COLLECTED	
3141 TRM 527.4  0.4 MILES DOWNSTREA	GAMMA SCAN (GELI)				
	PB-214	+1.4885	+0.0678	10/03/94	406281
	RA-224	+14.3410	+1.2352	05/04/94	402481
	RA-226	+8.3300	+0.3357	05/04/94	402481
		+1.3483	+0.0646	10/03/94	406281
	TL-208	+5.6776	+0.2102	05/04/94	402481
		+0.7781	+0.0397	10/03/94	406281
	SR 89				
		+1.3500	+0.8670	05/04/94	402481
		+0.1010	+0.4690	10/03/94	406281
	SR 90				
		-0.2619	+0.2490	05/04/94	402481
		+0.0242	+0.1110	10/03/94	406281
	3142 TRM 518.0	GAMMA SCAN (GELI)			
AC-228		+1.1183	+0.0711	05/05/94	402484
		+1.1439	+0.0757	10/03/94	406284
BE-7		+0.7626	+0.1058	05/05/94	402484
		+0.3901	+0.0886	10/03/94	406284
BI-212		+1.0036	+0.1329	05/05/94	402484
		+1.2238	+0.1171	10/03/94	406284
BI-214		+0.6863	+0.0376	05/05/94	402484
		+0.7821	+0.0485	10/03/94	406284
CS-137		+0.1060	+0.0102	05/05/94	402484
		+0.1416	+0.0113	10/03/94	406284
K-40		+17.3540	+0.7710	05/05/94	402484
		+15.9760	+0.7753	10/03/94	406284
PB-212		+0.9448	+0.0478	05/05/94	402484
		+1.0445	+0.0535	10/03/94	406284
PB-214	+0.7494	+0.0901	05/05/94	402484	
	+0.8721	+0.0503	10/03/94	406284	
RA-224	+1.0152	+0.1533	05/05/94	402484	
	+1.2700	+0.1718	10/03/94	406284	
RA-226	+0.6863	+0.0376	05/05/94	402484	
	+0.7821	+0.0485	10/03/94	406284	
TL-208	+0.3115	+0.0193	05/05/94	402484	
	+0.3758	+0.0215	10/03/94	406284	

TENNESSEE VALLEY AUTHORITY  
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WATTS BAR NUCLEAR PLANT  
RADIOACTIVITY IN SEDIMENT  
PC1/GM - 0.037 BQ/G (DRY WEIGHT)  
12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3142 TRM 518.0	SR 89	+0.0255	+0.2880	05/05/94 402484
		+0.5430	+0.4920	10/03/94 406284
	SR 90	-0.0197	+0.1180	05/05/94 402484
		-0.0900	+0.1130	10/03/94 406284

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)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE	
			TERM	COLLECTED LAB NO
3191 WATTS BAR RESORT TRM 530	GAMMA SCAN (GELI)			
	AC-228	+1.5420	+0.1100	05/03/94 402485
		+0.3945	+0.0348	11/02/94 406285
	BE-7	+0.1354	+0.0306	11/02/94 406285
	BI-212	+1.6064	+0.1402	05/03/94 402485
		+0.3946	+0.0598	11/02/94 406285
	BI-214	+0.9088	+0.0435	05/03/94 402485
		+0.2858	+0.0232	11/02/94 406285
	CS-137	+0.0136	+0.0030	11/02/94 406285
	K-40	+6.2129	+0.4197	05/03/94 402485
		+0.7468	+0.0895	11/02/94 406285
	PB-212	+1.3864	+0.0595	05/03/94 402485
		+0.3523	+0.0231	11/02/94 406285
	PB-214	+1.0444	+0.0546	05/03/94 402485
		+0.3131	+0.0201	11/02/94 406285
	RA-224	+1.5569	+0.1432	05/03/94 402485
		+0.3198	+0.0817	11/02/94 406285
	RA-226	+0.9088	+0.0435	05/03/94 402485
		+0.2858	+0.0232	11/02/94 406285
	TL-208	+0.4684	+0.0266	05/03/94 402485
	+0.1059	+0.0094	11/02/94 406285	
SR 89				
		+0.4760	+0.3260	05/03/94 402485
		+0.3610	+0.4130	11/02/94 406285
SR 90				
		-0.1469	+0.1280	05/03/94 402485
		-0.0392	+0.1380	11/02/94 406285
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)			
	AC-228	+1.2865	+0.0958	05/03/94 402486
		+1.4386	+0.0906	10/28/94 406287
	BE-7	+1.5459	+0.1195	05/03/94 402486
	BI-212	+1.2338	+0.1402	05/03/94 402486
		+1.4417	+0.1407	10/28/94 406287
	BI-214	+0.6326	+0.0378	05/03/94 402486
	+0.6769	+0.0464	10/28/94 406287	
CS-137	+0.1225	+0.0134	05/03/94 402486	

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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN SHORELINE SEDIMENT  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		
			TERM	COLLECTED LAB NO	
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)				
	CS-137	+0.0371	+0.0091	10/28/94 406287	
	K-40	+19.7340	+0.8898	05/03/94 402486	
		+18.5050	+0.9037	10/28/94 406287	
	PB-212	+1.1398	+0.0586	05/03/94 402486	
		+1.3742	+0.0643	10/28/94 406287	
	PB-214	+0.6773	+0.0352	05/03/94 402486	
		+0.7588	+0.0450	10/28/94 406287	
	RA-224	+1.2580	+0.1571	05/03/94 402486	
		+1.4472	+0.1803	10/28/94 406287	
	RA-226	+0.6326	+0.0378	05/03/94 402486	
		+0.6769	+0.0464	10/28/94 406287	
	TL-208	+0.3986	+0.0219	05/03/94 402486	
		+0.4679	+0.0249	10/28/94 406287	
	SR 89				
			+0.1640	+0.3340	05/03/94 402486
			+0.8020	+0.3980	10/28/94 406287
SR 90					
		+0.0499	+0.1340	05/03/94 402486	
		-0.1709	+0.1220	10/28/94 406287	

TENNESSEE VALLEY AUTHORITY  
 ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION  
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WATTS BAR NUCLEAR PLANT  
 RADIOACTIVITY IN CLAM FLESH  
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)  
 12/27/93 TO 12/30/94

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR DATE		LAB NO	
			TERM	COLLECTED		
2155 TRM 496.50	GAMMA SCAN (GELI)					
	AC-228	+0.2262	+0.1330	05/05/94	402385	
		+0.0589	+0.1482	10/04/94	406224	
	BI-214	+0.3521	+0.1073	10/04/94	406224	
	K-40	+1.7893	+0.7689	05/05/94	402385	
		+1.9524	+0.8798	10/04/94	406224	
	PB-212	+0.0287	+0.0604	05/05/94	402385	
	PB-214	+0.3847	+0.1399	10/04/94	406224	
	TL-208	+0.0099	+0.0386	05/05/94	402385	
3140 TRM 532.1	4.3 MILES UPSTREAM	GAMMA SCAN (GELI)				
		BI-214	+1.1092	+0.1420	10/01/94	406275
		K-40	+2.0195	+0.5513	10/01/94	406275
		PB-212	+0.1515	+0.0506	10/01/94	406275
		PB-214	+1.0919	+0.1281	10/01/94	406275
3141 TRM 527.4	0.4 MILES DOWNSTREA	GAMMA SCAN (GELI)				
		AC-228	+0.1395	+0.1348	05/04/94	402479
		BI-214	+0.5567	+0.1224	10/03/94	406278
		K-40	+1.7216	+0.6689	05/04/94	402479
			+2.3561	+0.6580	10/03/94	406278
	PB-214	+0.5854	+0.1325	10/03/94	406278	
3142 TRM 518.0	GAMMA SCAN (GELI)	BI-214	+0.2243	+0.0941	05/04/94	402482
			+0.3650	+0.1451	10/03/94	406282
		K-40	+1.6895	+0.4971	05/04/94	402482
			+2.8982	+0.9515	10/03/94	406282
		PB-212	+0.0620	+0.0604	05/04/94	402482
		PB-214	+0.2759	+0.1004	05/04/94	402482
		+0.5044	+0.1274	10/03/94	406282	
3144 UPSTREAM	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		05/04/94	403643	

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Watts Bar Nuclear Plant, First Quarter 1994

LOC CODE	DESCRIPTION	DISTANCE Miles	DIRECT Deg	MEAN ----- mrem per	STDEV mrem per	MEDIAN Std Qtr	MED DEV -----	COUNT	#STNS
WBSSE-1	#5 @ INTAKE	.620	156	16.090	.956	16.590		9	
WBENE-1	#3 ASH DISPOSAL	.740	74	17.800	2.308	16.670		9	
WBS-1	#6 W. WELL #2	.740	182	14.890	.815	14.770		9	
WBSSW-1	#7 @ RIVER	.810	199	19.790	.607	19.800		9	
WBSW-1	ROAD SOUTH OF STORAGE YARD	.810	226	17.610	.535	17.440		9	
WBSE-1A	LM-4 WB	.860	138	13.950	.552	14.030		9	
WBWSW-1	SOUTHWEST OF STORAGE YARD	.870	255	14.260	.876	14.210		9	
WBWNW-1	SITE BOUNDARY @ FENCE	.870	294	22.530	.941	22.040		9	
WBNE-1	#2 WBSP	.930	39	19.410	.982	19.080		9	
WBW-1	#10, CURVE	.930	270	15.260	1.485	15.750		9	
WBNNW-1	HIGHWAY 68 @ PLANT ROAD	.990	340	14.420	.443	14.500		9	
GROUP	.5 TO 1.0			16.910	1.082	16.807	2.468	99	11
WBW-1	SITE BOUNDARY, EDGE OF WOODS	1.060	320	16.740	.781	16.860		9	
WBNE-1	BLUFF, S. OF DAM	1.180	21	16.830	.442	16.740		9	
WBN-1	WATTS BAR DAM #1 SWITCHYARD	1.240	10	17.190	1.496	17.160		9	
WBSE-1	RIVER ROAD @ KINCAID SPRING	1.240	109	13.170	.610	13.090		9	
WBSSW-2	LAYMAN DAIRY	1.260	200	16.310	.887	16.360		9	
WBE-1	FENCE EAST SIDE OF RIVER ROAD	1.300	85	14.850	.828	15.210		9	
WBNE-1A	LM-3 WB	1.920	22	15.000	.614	15.050		9	
GROUP	1.0 TO 2.0			15.727	.867	15.781	1.332	63	7
GROUP	.5 TO 2.0			16.450	1.004	16.408	2.160	162	18
WBS-2A	River Rd., S of Sewee Creek	2.020	177	17.210	1.054	16.800		9	
WBNE-2	AKEMAN CROSSROADS	2.860	54	15.520	.817	15.490		9	
WBNW-2A	Hwy 68, West	2.950	321	13.680	.408	13.680		9	
WBSE-2A	Center Pt. Rd. N of Hwy 68	3.140	144	14.870	1.118	14.650		9	
WBW-2A	Dixie Hwy, W of Johns Chapel	3.170	268	15.180	.567	15.230		9	
WBENE-2A	Hwy 68 at Mike Colyer Auto	3.530	69	12.750	.737	12.920		9	
GROUP	2.0 TO 4.0			14.868	.823	14.795	1.256	54	6
WBWSW-2	Dixie Hwy, N Breedenton Fry Rd	4.030	247	16.180	.789	16.460		9	
WBNE-2	NEAR COLLINS CEMETARY	4.090	20	14.190	.653	14.460		9	
WBSE-2	CENTER POINT ROAD SOUTH	4.360	106	18.700	.470	18.650		9	
WBNNW-2	NE WOLF CREEK ROAD @ RIVER	4.460	333	15.040	1.580	15.330		9	
WBW-2	WOLF CREEK ROAD, NORTH	4.710	313	16.720	.655	16.540		9	
WBN-2	DICKEY BLUFF	4.710	350	15.540	.761	15.550		9	
WBS-2	RIVER ROAD N. DECATUR HILLS	4.770	185	12.570	.409	12.680		9	
WBW-2	HIGH POINT ROAD	4.840	277	12.450	1.470	12.910		9	

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TLD EXPOSURE BY DISTANCE  
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Watts Bar Nuclear Plant, First Quarter 1994

LOC CODE	DESCRIPTION	DISTANCE Miles	DIRECT Deg	MEAN ----- mrem per	STDEV Std	MEDIAN Qtr	MED DEV -----	COUNT	#STNS
WBWNW-2	WOLF CREEK ROAD, SOUTH	4.900	292	19.480	.857	19.860		3	
WBE-2	CENTER POINT ROAD NORTH	4.960	92	15.160	.358	15.060		9	
WBSSW-3	HUNTER BEND ROAD	5.020	199	13.600	.509	13.570		9	
WBSE-2	NO PONE VALLEY ROAD, NORTH	5.270	128	13.870	1.117	13.930		9	
WBSW-2	HUNTER BEND RD. DITNEY RIDGE	5.270	220	13.670	.462	13.680		9	
WBENE-2	HIGHWAY 58	5.830	69	14.310	.820	14.600		9	
WBSSE-2	NO PONE VALLEY ROAD, SOUTH	5.830	156	15.600	.454	15.450		9	
	GROUP 4.0 TO 6.0			14.937	.838	15.249	1.937	129	15
WBNE-3	PLEASANT HILL	6.080	47	13.100	.753	13.180		9	
WBS-3	PM-5 WB	6.180	185	14.660	.528	14.800		9	
WBNNW-3	SPRING CITY WATER PLANT	6.960	329	12.380	.393	12.450		9	
WBNW-3	PM-2 WB	6.980	317	17.240	.935	17.490		9	
WBENE-3	PM-4 WB	7.560	56	13.630	.239	13.520		9	
WBNE-3	PM-3 WB	10.440	17	14.430	.945	14.210		9	
WBSW-3	RM-2 WB	14.960	225	13.190	.576	13.160		9	
WBNNW-4	RM-3 WB	14.980	337	13.170	.377	13.030		9	
WBE-3	BILDERBACK DAIRY	15.000	90	18.020	.619	18.090		9	
	GROUP 6.0 AND GREATER			14.424	.640	14.437	1.910	81	9
	GROUP 2.0 AND GREATER			14.766	.779	14.914	1.847	264	30
	GROUP .5 AND GREATER			15.406	.872	15.475	2.099	426	48

TLD EXPOSURE BY DISTANCE  
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Watts Bar Nuclear Plant, Second Quarter 1994

LOC CODE	DESCRIPTION	DISTANCE Miles	DIRECT Deg	MEAN ----- mrem per Std Qtr	STDEV	MEDIAN	MED DEV	COUNT	#STNS
WBSSE-1	#5 @ INTAKE	.620	156	14.770	1.720	15.000		9	
WBENE-1	#3 ASH DISPOSAL	.740	74	18.550	2.252	19.210		9	
WBS-1	#6 W. WELL #2	.740	182	13.970	.371	13.820		9	
WBSSW-1	#7 @ RIVER	.810	199	19.250	.722	19.080		9	
WBSW-1	ROAD SOUTH OF STORAGE YARD	.810	226	19.300	2.382	17.960		9	
WBSE-1A	LM-4 WB	.860	138	13.460	.456	13.640		9	
WBWSW-1	SOUTHWEST OF STORAGE YARD	.870	255	14.340	.772	14.130		9	
WBWNW-1	SITE BOUNDARY @ FENCE	.870	294	22.530	.845	22.730		9	
WBNE-1	#2 WBSP	.930	39	20.340	1.150	20.000		9	
WBW-1	#10, CURVE	.930	270	15.460	.431	15.590		9	
WBNNW-1	HIGHWAY 68 @ PLANT ROAD	.990	340	14.200	.445	14.250		9	
	GROUP .5 TO 1.0			16.925	1.264	16.855	2.938	99	11
WBNW-1	SITE BOUNDARY, EDGE OF WOODS	1.060	320	16.710	.387	16.840		9	
WBNNE-1	BLUFF, S. OF DAM	1.180	21	23.120	2.003	23.270		9	
WBN-1	WATTS BAR DAM #1 SWITCHYARD	1.240	10	24.480	2.174	24.870		9	
WBESE-1	RIVER ROAD @ KINCAID SPRING	1.240	109	12.610	.236	12.640		9	
WBSSW-2	LAYMAN DAIRY	1.260	200	16.480	1.285	15.990		9	
WBE-1	FENCE EAST SIDE OF RIVER ROAD	1.300	85	13.840	.380	13.860		9	
WBNNE-1A	LM-3 WB	1.920	22	18.520	2.825	17.140		9	
	GROUP 1.0 TO 2.0			17.966	1.635	17.801	4.254	63	7
	GROUP .5 TO 2.0			17.329	1.420	17.223	3.539	162	18
WBS-2A	River Rd., S of Sewee Creek	2.020	177	15.690	.344	15.690		9	
WBNE-2	AKEMAN CROSSROADS	2.860	54	14.470	.629	14.710		9	
WBNW-2A	Hwy 68, West	2.950	321	13.640	.624	13.760		9	
WBSE-2A	Center Pt. Rd. N of Hwy 68	3.140	144	13.310	.620	13.270		9	
WBW-2A	Dixie Hwy, W of Johns Chapel	3.170	268	15.190	.611	15.300		9	
WBENE-2A	Hwy 68 at Mike Colyer Auto	3.530	69	11.690	.484	11.750		9	
	GROUP 2.0 TO 4.0			13.998	.562	14.080	1.333	54	6
WBWSW-2	Dixie Hwy, N Breedenton Fry Rd	4.030	247	15.730	.550	15.760		9	
WBNNE-2	NEAR COLLINS CEMETARY	4.090	20	14.330	.712	14.220		9	
WBESE-2	CENTER POINT ROAD SOUTH	4.360	106	17.950	.591	17.900		9	
WBNNW-2	NE WOLF CREEK ROAD @ RIVER	4.460	333	15.740	1.370	15.310		9	
WBNW-2	WOLF CREEK ROAD, NORTH	4.710	313	16.690	.395	16.770		9	
WBN-2	DICKEY BLUFF	4.710	350	18.990	3.497	16.930		9	
WBS-2	RIVER ROAD N. DECATUR HILLS	4.770	185	11.950	.801	11.870		9	
WBW-2	HIGH POINT ROAD	4.840	277	12.450	.560	12.520		9	

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Watts Bar Nuclear Plant, Second Quarter 1994

LOC CODE	DESCRIPTION	DISTANCE Miles	DIRECT Deg	MEAN ----- mrem per	STDEV Std	MEDIAN Qtr	MED DEV	COUNT	#STNS
WBWNW-2	WOLF CREEK ROAD, SOUTH	4.900	292	18.030	.639	17.770		6	
WBE-2	CENTER POINT ROAD NORTH	4.960	92	14.810	.562	14.790		9	
WBSSW-3	HUNTER BEND ROAD	5.020	199	14.800	1.776	15.800		9	
WBSE-2	NO PONE VALLEY ROAD, NORTH	5.270	128	12.620	.303	12.580		9	
WBSW-2	HUNTER BEND RD. DITNEY RIDGE	5.270	220	13.270	.433	13.180		9	
WBENE-2	HIGHWAY 58	5.830	69	13.440	.437	13.700		9	
WBSSE-2	NO PONE VALLEY ROAD, SOUTH	5.830	156	16.110	2.398	14.820		9	
	GROUP 4.0 TO 6.0			15.061	1.340	14.928	1.856	132	15
WBNE-3	PLEASANT HILL	6.080	47	15.260	2.341	15.200		9	
WBS-3	PM-5 WB	6.180	185	14.180	.451	14.290		9	
WBNNW-3	SPRING CITY WATER PLANT	6.960	329	12.380	.419	12.370		9	
WBNW-3	PM-2 WB	6.980	317	17.940	.634	18.060		9	
WBENE-3	PM-4 WB	7.560	56	12.710	.470	12.750		9	
WBNNE-3	PM-3 WB	10.440	17	14.820	.476	14.610		9	
WBSW-3	RM-2 WB	14.960	225	13.050	.404	13.200		9	
WBNNW-4	RM-3 WB	14.980	337	13.110	.246	13.040		9	
WBE-3	BILDERBACK DAIRY	15.000	90	16.830	.362	16.870		9	
	GROUP 6.0 AND GREATER			14.476	.886	14.488	1.834	81	9
	GROUP 2.0 AND GREATER			14.669	1.091	14.626	1.788	267	30
	GROUP .5 AND GREATER			15.673	1.226	15.600	2.877	429	48

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WBSSE-1	#5 @ INTAKE	.620	156	14.550	.610	14.450		9	
WBENE-1	#3 ASH DISPOSAL	.740	74	16.010	1.330	15.780		9	
WBS-1	#6 W. WELL #2	.740	182	14.380	1.933	13.770		9	
WBSSW-1	#7 @ RIVER	.810	199	18.590	.592	18.550		6	
WBSW-1	ROAD SOUTH OF STORAGE YARD	.810	226	16.950	.880	17.070		9	
WBSE-1A	LM-4 WB	.860	138	13.360	.559	13.110		9	
WBWSW-1	SOUTHWEST OF STORAGE YARD	.870	255	13.310	.757	13.250		9	
WBWNW-1	SITE BOUNDARY @ FENCE	.870	294	21.010	.710	20.930		9	
WBNE-1	#2 WBSW	.930	39	18.000	.570	18.090		9	
WBW-1	#10, CURVE	.930	270	15.030	.610	14.860		9	
WBNNW-1	HIGHWAY 68 @ PLANT ROAD	.990	340	13.960	.510	14.220		9	
	GROUP .5 TO 1.0			15.839	.930	15.825	2.408	96	11
WBNW-1	SITE BOUNDARY, EDGE OF WOODS	1.060	320	16.720	.644	16.550		9	
WBNNE-1	BLUFF, S. OF DAM	1.180	21	15.170	.519	15.030		9	
WBN-1	WATTS BAR DAM #1 SWITCHYARD	1.240	10	18.320	3.550	16.560		9	
WBESE-1	RIVER ROAD @ KINCAID SPRING	1.240	109	12.540	.498	12.660		9	
WBSSW-2	LAYMAN DAIRY	1.260	200	14.820	.439	14.810		9	
WBE-1	FENCE EAST SIDE OF RIVER ROAD	1.300	85	14.290	.947	14.070		9	
WBNNE-1A	LM-3 WB	1.920	22	13.770	.582	13.870		9	
	GROUP 1.0 TO 2.0			15.090	1.462	14.793	1.320	63	7
	GROUP .5 TO 2.0			15.542	1.170	15.424	2.115	159	18
WBS-2A	River Rd., S of Sewee Creek	2.020	177	14.790	.439	14.850		9	
WBNE-2	AKEMAN CROSSROADS	2.860	54	13.870	.534	13.870		9	
WBNW-2A	Hwy 68, West	2.950	321	13.270	.740	13.250		9	
WBSE-2A	Center Pt. Rd. N of Hwy 68	3.140	144	13.670	.237	13.690		9	
WBW-2A	Dixie Hwy, W of Johns Chapel	3.170	268	14.740	.530	14.730		9	
WBENE-2A	Hwy 68 at Mike Colyer Auto	3.530	69	11.470	.795	11.610		9	
	GROUP 2.0 TO 4.0			13.635	.577	13.667	1.078	54	6
WBWSW-2	Dixie Hwy, N Breedenton Fry Rd	4.030	247	15.140	.551	15.120		9	
WBNNE-2	NEAR COLLINS CEMETARY	4.090	20	12.530	.517	12.420		9	
WBESE-2	CENTER POINT ROAD SOUTH	4.360	106	19.240	2.134	18.710		9	
WBNNW-2	NE WOLF CREEK ROAD @ RIVER	4.460	333	15.040	.645	15.150		9	
WBNW-2	WOLF CREEK ROAD, NORTH	4.710	313	16.500	.854	16.710		9	
WBN-2	DICKEY BLUFF	4.710	350	14.240	.787	14.220		9	
WBS-2	RIVER ROAD N. DECATUR HILLS	4.770	185	11.290	.704	11.230		9	
WBW-2	HIGH POINT ROAD	4.840	277	11.880	.576	11.990		9	

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WBWNW-2	WOLF CREEK ROAD, SOUTH	4.900	292	17.100	.756	17.370		9	
WBE-2	CENTER POINT ROAD NORTH	4.960	92	14.560	.915	14.580		9	
WBSSW-3	HUNTER BEND ROAD	5.020	199	12.890	1.379	12.660		9	
WBSE-2	NO PONE VALLEY ROAD, NORTH	5.270	128	12.250	.605	12.530		9	
WBSW-2	HUNTER BEND RD. DITNEY RIDGE	5.270	220	12.790	.371	12.910		9	
WBENE-2	HIGHWAY 58	5.830	69	13.900	1.182	13.580		9	
WBSSE-2	NO PONE VALLEY ROAD, SOUTH	5.830	156	14.690	.510	14.540		9	
	GROUP 4.0 TO 6.0			14.269	.938	14.248	2.045	135	15
WBNE-3	PLEASANT HILL	6.080	47	11.950	.564	12.160		9	
WBS-3	PM-5 WB	6.180	185	13.580	.457	13.480		9	
WBNNW-3	SPRING CITY WATER PLANT	6.960	329	12.120	.855	11.990		9	
WBNW-3	PM-2 WB	6.980	317	17.370	.552	17.420		9	
WBENE-3	PM-4 WB	7.560	56	13.690	2.016	12.730		9	
WBNNNE-3	PM-3 WB	10.440	17	13.060	.505	13.220		9	
WBSW-3	RM-2 WB	14.960	225	12.570	1.053	12.470		9	
WBNNW-4	RM-3 WB	14.980	337	12.780	.711	12.850		9	
WBE-3	BILDERBACK DAIRY	15.000	90	16.980	.679	16.920		9	
	GROUP 6.0 AND GREATER			13.789	.940	13.693	1.914	81	9
	GROUP 2.0 AND GREATER			13.998	.878	13.965	1.872	270	30
	GROUP .5 AND GREATER			14.571	.997	14.512	2.089	429	48

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WBSSE-1	#5 @ INTAKE	.620	156	15.560	1.044	15.990		9	
WBENE-1	#3 ASH DISPOSAL	.740	74	16.740	1.077	16.890		9	
WBS-1	#6 W. WELL #2	.740	182	13.660	1.069	13.780		9	
WBSSW-1	#7 @ RIVER	.810	199	19.870	1.044	19.590		9	
WBSW-1	ROAD SOUTH OF STORAGE YARD	.810	226	17.520	1.241	17.820		9	
WBSE-1A	LM-4 WB	.860	138	13.800	1.434	13.610		9	
WBWSW-1	SOUTHWEST OF STORAGE YARD	.870	255	14.370	1.296	14.620		9	
WBWNW-1	SITE BOUNDARY @ FENCE	.870	294	22.790	1.045	22.890		9	
WBNE-1	#2 WBSP	.930	39	18.910	1.108	18.970		9	
WBW-1	#10, CURVE	.930	270	16.410	1.140	16.150		9	
WBNNW-1	HIGHWAY 68 @ PLANT ROAD	.990	340	14.410	.771	14.510		9	
	GROUP .5 TO 1.0			16.731	1.127	16.802	2.714	99	11
WBNW-1	SITE BOUNDARY, EDGE OF WOODS	1.060	320	17.410	1.241	17.850		9	
WBNNE-1	BLUFF, S. OF DAM	1.180	21	17.120	.737	16.970		9	
WBN-1	WATTS BAR DAM #1 SWITCHYARD	1.240	10	17.570	.711	17.420		9	
WBSE-1	RIVER ROAD @ KINCAID SPRING	1.240	109	12.740	1.149	12.660		3	
WBSSW-2	LAYMAN DAIRY	1.260	200	16.020	1.458	16.160		9	
WBE-1	FENCE EAST SIDE OF RIVER ROAD	1.300	85	15.650	1.746	15.110		9	
WBNNE-1A	LM-3 WB	1.920	22	14.710	1.611	14.760		9	
	GROUP 1.0 TO 2.0			16.220	1.306	15.847	1.679	57	7
	GROUP .5 TO 2.0			16.544	1.195	16.431	2.411	156	18
WBS-2A	River Rd., S of Sewee Creek	2.020	177	16.710	1.201	16.630		9	
WBNE-2	AKEMAN CROSSROADS	2.860	54	15.430	1.701	15.370		9	
WBNW-2A	Hwy 68, West	2.950	321	13.350	1.897	13.450		9	
WBSE-2A	Center Pt. Rd. N of Hwy 68	3.140	144	14.300	.955	14.240		9	
WBW-2A	Dixie Hwy, W of Johns Chapel	3.170	268	15.260	1.019	15.040		9	
WBENE-2A	Hwy 68 at Mike Colyer Auto	3.530	69	12.020	1.176	12.440		9	
	GROUP 2.0 TO 4.0			14.512	1.370	14.528	1.354	54	6
WBWSW-2	Dixie Hwy, N Breedenton Fry Rd	4.030	247	16.570	.910	16.480		9	
WBNNE-2	NEAR COLLINS CEMETARY	4.090	20	14.020	.922	13.990		9	
WBNNW-2	NE WOLF CREEK ROAD @ RIVER	4.460	333	15.550	1.651	15.630		9	
WBNW-2	WOLF CREEK ROAD, NORTH	4.710	313	16.430	.535	16.220		9	
WBN-2	DICKEY BLUFF	4.710	350	15.510	.725	15.550		9	
WBS-2	RIVER ROAD N. DECATUR HILLS	4.770	185	11.910	1.158	11.580		9	
WBW-2	HIGH POINT ROAD	4.840	277	13.000	1.278	12.990		9	
WBWNW-2	WOLF CREEK ROAD, SOUTH	4.900	292	18.730	1.532	18.350		9	

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WBE-2	CENTER POINT ROAD NORTH	4.960	92	15.760	1.030	15.880		9	
WBSSW-3	HUNTER BEND ROAD	5.020	199	13.310	1.182	13.890		9	
WBSE-2	NO PONE VALLEY ROAD, NORTH	5.270	128	12.870	.774	12.780		9	
WBSW-2	HUNTER BEND RD. DITNEY RIDGE	5.270	220	14.220	1.013	14.140		9	
WBENE-2	HIGHWAY 58	5.830	69	15.050	2.038	14.860		9	
WBSSE-2	NO PONE VALLEY ROAD, SOUTH	5.830	156	16.070	2.042	15.410		9	
	GROUP 4.0 TO 6.0			14.929	1.280	14.839	1.687	126	14
WBNE-3	PLEASANT HILL	6.080	47	12.270	1.303	12.610		9	
WBS-3	PM-5 WB	6.180	185	14.680	1.182	14.290		9	
WBNNW-3	SPRING CITY WATER PLANT	6.960	329	11.880	1.051	12.210		9	
WBNW-3	PM-2 WB	6.980	317	17.180	1.064	17.330		9	
WBENE-3	PM-4 WB	7.560	56	13.540	1.221	13.480		9	
WBNE-3	PM-3 WB	10.440	17	13.880	.856	13.690		9	
WBSW-3	RM-2 WB	14.960	225	12.840	1.155	13.100		9	
WBNNW-4	RM-3 WB	14.980	337	12.630	1.356	12.730		9	
WBE-3	BILDERBACK DAIRY	15.000	90	18.070	.951	18.480		9	
	GROUP 6.0 AND GREATER			14.108	1.137	14.213	2.075	81	9
	GROUP 2.0 AND GREATER			14.588	1.257	14.581	1.779	261	29
	GROUP .5 AND GREATER			15.320	1.235	15.289	2.233	417	47