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Environmental Radiation Program

1991 Annual Report

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Washington State Department of Health

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Executive Summary

The Washington State Department of Health (DOH) conducts environmental radiation monitoring within the state to evaluate and determine compliance with applicable federal and state regulation and guidelines. Radiation exposure to the public can arise through numerous pathways. As a result, the Department conducts monitoring in the water, air, soil/sediment, vegetation, fish, shellfish, and foods in various locations throughout the state. This monitoring is usually focused on facilities where the potential for off-site impact would be the greatest.

During 1991, no federal or state radiation standards for off-site impacts were exceeded at any location within the state. In the case of the Hanford Site, an off-site impact was detected only through the use of sensitive analytical equipment and procedures. The radionuclides detected were well below the level of concern for any public health impact.

Three former uranium mills sites continued to provide a low, but measurable impact to the adjacent lakes or streams. These elevated natural uranium concentrations were up to several pCi/l but are much less than the proposed Drinking Water Standard (DWS) of 30 pCi/l.

As expected, the Department's major emphasis for environmental monitoring was on and around the Hanford Site where past nuclear material production, a commercial reactor(WPPSS WNP-2), and a low level radioactive waste facility are all located.

In addition, there are several smaller facilities located in the vicinity of the Hanford Site. Radiation levels near Portland General Electric's (PGE) Trojan plant, located across the Columbia River from Longview, were found to be at ambient levels as measured by TLDs in the surrounding vicinity of the plant. Oversight for radiation levels in the environment of this plant is accomplished through the review of Trojan's environmental report and environmental data collected by the Oregon Health Division's monitoring program.

The remaining major nuclear facilities in the state are the U.S. Navy bases. The Navy conducts an extensive environmental radiation surveillance program at both its Bremerton and Bangor facilities. Previous sampling efforts by the Department around the naval sites have never identified radioactive contamination resulting from the Naval facilities.

Other smaller facilities and licensee monitoring continued in the state. The results of all monitoring performed in addition to an explanation of the monitoring, the terms used, and the data tables are included in this report.

ACRONYMS

ACI	Allied Consulting, Inc.
ALARA	As Low As Reasonably Achievable
ATG	Allied Technology Group
BARCT	Best Available Radionuclide Control Technology
BPA	Bonneville Power Administration
CFR	Code of Federal Regulations
DEIS	Draft Environmental Impact Statement
DILS	Derived Intervention Levels
DMC	Dawn Mining Company
DOH	Department of Health
DRP	Division of Radiation Protection
DWS	Drinking Water Standards
EIS	Environmental Impact Statement
EML	Environmental Measurement Laboratory (USDOE Laboratory)
EPA	U.S. Environmental Protection Agency
ES&H	Environmental Safety & Health
FEMA	Federal Emergency Management Agency
FFTF	Fast Flux Test Facility
HEAL	Hanford Education Action League
HEDR	Hanford Environmental Dose Reconstruction Project
ICRP	International Council on Radiation Protection
ITI	International Titanium, Inc.
JMC	Joy Mining Company
LLD	Lower Limit of Detection
MCL	Maximum Control Limits
MPC	Maximum Permissible Concentration
NCRP	National Council on Radiation Protection
NRC	U.S. Nuclear Regulatory Commission
ORNL	Oak Ridge National Laboratory
PGE	Portland General Electric
PNL	Battelle's Pacific Northwest Laboratory
QA	Quality Assurance
QATF	Environmental Radiation Quality Assurance Task Force of the Pacific Northwest
RL	Richland
SDEIS	Supplemental Draft Environmental Impact Statement
TAC	Technical Advisory Committee for the Closure of Dawn Mining Company Millsite
TLD	Thermoluminescent Dosimeter
TSP	Technical Steering Panel for the Hanford Dose Reconstruction Project
U-Mills	Uranium Mills
USDOE	U.S. Department of Energy

USE	US Ecology
WAC	Washington Administrative Code
WDOE	Washington Department of Ecology
WEES	Washington Energy Extension Service
WERDS	Washington Environmental Radiation Database System
WHC	Westinghouse Hanford Company
WNI	Western Nuclear, Inc.
WNP-2	Washington Public Power Supply System Nuclear Plant #2
WPPSS	Washington Public Power Supply System
WSEO	Washington State Energy Office
WSU	Washington State University

INTRODUCTION

Legislation

The Washington State Department of Health (DOH) is mandated by the Legislature to protect the public health and safety from sources of ionizing radiation (Reference 1). This legislation further requires that the Department develop a statewide radiological baseline, beginning with the Hanford Reservation, and implement an independent statewide program to monitor emissions from radiation sources within the State.

Regulations and Standards

In early 1982, the State of Washington amended its agreement with the Nuclear Regulatory Commission (NRC) to allow for comprehensive regulation of the uranium milling process. Washington was the first state to be granted such authority. Regulations compatible with the NRC's 10 CFR Part 40, Appendix A (Reference 2), were adopted in Chapter 402 of the Washington Administrative Code (now WAC 246). The enabling legislation for our regulatory authority over uranium mill tailings was enacted in 1979 and is contained in the Revised Code of Washington (RCW) 70.121 "Mill Tailings - Licensing and Perpetual Care" (Reference 3). The legislation was based upon the federal Uranium Mill Tailings Radiation Control Act of 1978.

In 1985, the authority contained in the Revised Code of Washington RCW 70.98 was amended to expand the Department's environmental radiation monitoring program, including the specific charge to monitor emissions from radiation sources. Standards for environmental compliance in the state were adopted and are compatible with regulations set forth under NRC and U.S. Environmental Protection Agency (EPA) guidance. These recommendations are based on recommendations of the International Commission on Radiological Protection (ICRP) and the National Council on Radiation Protection (NCRP).

Applicable regulations in the state for a wide variety of nuclear facilities are listed in Table 1.

Table 1
Regulations for Nuclear Facilities in Washington State

Regulations For:	State Regulations	Federal Regulations
Uranium milling	WAC 246 (DOH)	10 CFR 40 (NRC)
Uranium fuel cycle	WAC 246 (DOH)	40 CFR 190 (EPA)
Uranium tailings	WAC 246 (DOH)	40 CFR 192 (EPA)
Low-level waste	WAC 246 (DOH)	10 CFR 61 (NRC)
High-level waste	—	40 CFR 191 (EPA) 10 CFR 60 (NRC) 10 CFR 960 (USDOE)
Nuclear reactors	WAC 463 (EFSEC)	10 CFR 50 (NRC)
Facilities	WAC 246 (DOH)	10 CFR 20 (NRC)
Air emissions	WAC 173 (WDOE) WAC 246 (DOH)	40 CFR 61 (EPA)
Drinking water	WAC 248 (DOH)	40 CFR 141 (EPA)
Surface water	WAC 173 (WDOE)	40 CFR 130, 131 (EPA)

Program Goals

The major goals of the environmental radiation program are to identify, assess and initiate appropriate corrective actions needed to prevent any potential exposure to the public or contamination of the environment before a significant problem develops. This report provides the technical data to support a public information program that strives to identify and describe changes in the radiological quality of the environment. In addition, the Department maintains an operational capability to respond to emergencies or accidents where there is a potential for radioactive contamination. This capability is a high priority for the Department.

Consistent with the radiation control resources allocated to DOH, the Department, with assistance from many other agencies, operates a statewide environmental radiation monitoring program. The

Department also audits surveillance programs required of licensees and other nuclear facilities thus reducing the need for a complete independent surveillance effort by the state around each facility.

Radioactivity Defined

Before discussing the possible impacts from any facility, it is useful to discuss the meaning of radiation and radioactivity and their significance on human health.

Radiation is a natural process to redistribute energy. For example, the hot temperature of the sun causes it to emit visible light, which is a form of radiation. This radiation redistributes energy from the surface of the sun to the earth and fuels all of the life upon the earth. The important aspect of this radiation is that it has just the right energy for plants to build organic molecules and hence grow. In contrast, higher energy radiations, often called ionizing radiation, have too much energy for life to utilize. In fact, ionizing radiation can destroy organic molecules. This destruction may have negative health effects upon the animal or plant that has been exposed to radiation. It is ionizing radiation that is cause for concern and which is discussed throughout the rest of this report.

Radioactivity is the name given to the phenomena of matter emitting ionizing radiation. Similarly, matter that emits radiation is termed radioactive. All matter is made of atoms which consist of electrons circling around a central core or nucleus. The nucleus is made of protons, which carry charge, and neutrons, which are uncharged. Atoms are named according to how many protons they contain. For example, hydrogen has one proton, carbon has six protons and oxygen has eight protons. The convention we will use is the name of an atom followed by the sum of its number of protons and neutrons. For example, carbon 12, which is the most naturally abundant form of carbon, consists of six protons and six neutrons for a total of twelve. Carbon 13 and carbon 14, which consist of six protons and seven and eight neutrons, respectively, are also found in nature. Each of these different forms of carbon are called isotopes of carbon. If an isotope is radioactive it is called a radioisotope. In the example given, carbon 12 and carbon 13 are nonradioactive isotopes, and carbon 14 is radioactive and therefore a radioisotope. In this report, there terms radionuclide and radioisotope are used interchangeably.

All radioisotopes will eventually decay, by emitting radiation, to nonradioactive isotopes. For example, carbon 14 decays to nitrogen

14. An important property of any radioisotope is its half-life. The half-life is the amount of time it takes for half of that radioisotope to decay. In the example above carbon 14 has a half-life of 5,730 years. Thus, with one pound of pure carbon 14, after 5,730 years there would be 1/2 pound of carbon 14 and 1/2 pound of nitrogen 14. After another 5,730 years, for a total of 11,460 years, there would be 1/4 pound of carbon 14 and 3/4 pound of nitrogen 14. This decay process would continue indefinitely until all of the carbon 14 had decayed to nitrogen 14.

In contrast to this simple decay scheme, heavier radioisotopes often decay to a radioisotope, which decays to another radioisotope, and so on until this decay process culminates in a nonradioactive isotope. This sequence of decays is called a decay chain. Each of the isotopes produced by these decays are called decay products. For example, uranium 238 decays to thorium 234, which decays to protactinium 234 and so on until the decay chain ends with nonradioactive lead 206.

Sources of radiation in the environment, primarily natural but also artificial, are found everywhere. Naturally occurring radiation comes from the radioactive decay of sources such as potassium 40, radon, thorium and uranium. These radioisotopes have been present since the formation of the earth. Another natural source of radiation, cosmic rays, are very high energy radiations that bombard the earth from outer space. These cosmic rays produce radioactive elements through violent collisions with nonradioactive isotopes in our atmosphere and on the surface of the earth. These naturally occurring sources produce most of the environmental levels of radiation.

In the past century, environmental radiation levels have also been influenced by human activities such as the use and manufacture of radioactive materials. Such activities include the practice of nuclear medicine, uranium mining operations, nuclear power generation, nuclear weapons activities, and nuclear waste disposal. Of these activities, environmental radiation levels were most altered by residual fallout from nuclear weapons testing. The United States and the USSR ceased atmospheric testing following adoption of the 1963 Nuclear Test Ban Treaty. Consequently, only long-lived fallout radionuclides from these tests remain. Other countries, principally China, continued above-ground nuclear weapons tests until 1981. Fallout from the Chernobyl nuclear power accident in 1986 has provided the most recent contribution to environmental radiation levels. On a local level, environmental radiation levels were altered from the '40s to the '60s due to Hanford operations.

Operations at the U.S. Department of Energy Hanford Site also contributed radioactive materials to the atmospheric, terrestrial and aquatic environments. Levels of Hanford-generated radioactivity peaked between 1945 and 1950. The progressive closure from 1964 to 1971 of all Hanford reactors except the N-Reactor reduced emissions of radioactive material into the Columbia River. The N-Reactor was put in cold standby February 16, 1988, and has remained in standby since then. Present environmental radiation levels within the state remain nearly at natural environmental levels except for areas on the Hanford Site and near uranium processing facilities.

Types of Radiation and Potential Reactions

Radioactive isotopes emit radiation in several different forms. The four principle types are alpha, beta, gamma, and neutron radiation.

- Alpha particles are heavy charged particles. In fact, an alpha particle is the nucleus of a helium atom consisting of 2 protons and 2 neutrons. Alpha particles have very little penetrating capability. For example, alpha radiation cannot penetrate through the outer layer of human skin. As a result, it presents only a hazard to the body if internally inhaled or ingested. Because of the lack of penetrating power, alpha radiation deposits all of its energy on a very small area. Thus, the damage to individual cells as a result of an alpha particle can be severe. Examples of alpha emitters are those in the uranium or thorium decay chains.

- Beta particles are light, charged particles and can carry either a positive or negative charge. An example of a beta particle is an electron. Beta particles, like alpha particles, have a short penetrating distance. A layer of clothing is all that is necessary to shield the body from them. The hazard from beta particles is therefore internal as well. In terms of relative impact, the damage from a single beta particle is 1/20th that of an alpha particle. Many radionuclides emit beta particles. Principal beta emitters of environmental interest are strontium 90, cesium 137, technicium 99, and tritium.

- Gamma radiation, unlike alpha and beta particles, is pure energy possessing no mass. Gamma rays have the capability of penetrating the body and can do their damage

throughout any internal organs that are exposed. Gamma rays gradually transfer their energy through multiple interactions with the atoms in the body. It is this transfer of energy that can cause tissue damage and adverse health effects. There are many radionuclides that emit gammas. Common gamma emitters are daughters of cobalt 60 and cesium 137.

- Neutrons are uncharged heavy particles with great penetrating capability. However, neutron radiation is not a concern for environmental radiation since it generally exists only within the confines of the shielding around an operating nuclear reactor or nuclear facilities.

Five events may take place when any of the above mentioned radiation strikes a cell It may pass through the cell without doing any damage. It may damage the cell, but the cell fully repairs itself. It may damage the cell, but the cell partially repairs the damage. It may damage the cell so that the cell not only fails to repair itself but reproduces in damaged form over a period of years. It may kill the cell. The ability of a cell to repair some of the damage brought on by radiation explains why a given dose of radiation delivered in small amounts over a long period of time is less damaging than the same total dose given all at once. The death of a single cell may not present a serious problem, but if numerous cell deaths occur in one particular organ, that organ may no longer be able to function properly. These incompletely or incorrectly repaired cells may, over time, produce delayed health effects such as cancer or birth defects.

Doses to the Public

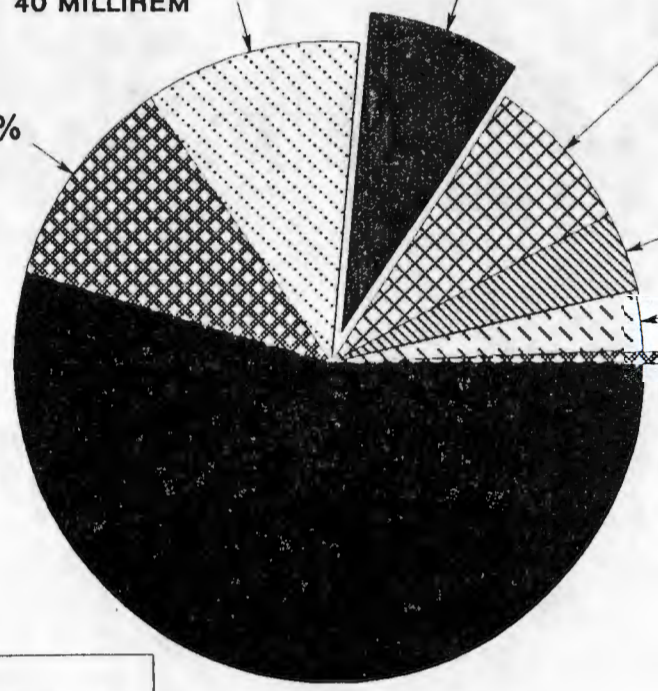
There are numerous paths through which an individual can receive a radiation dose. Direct exposure from an external source, inhalation of an airborne radionuclide, and ingestion of food or liquids that contain radionuclides are the most common paths of potential exposure. The food chain is the most complex pathway for doses to a person. For example, one such pathway is the uptake of radioactive materials from soil by plants. If these plants are then eaten by humans or their livestock, this leads to a radiation dose. Other ways radioactivity can enter into the food chain include: radioactive materials "settling" from the air onto food crops and drinking water supplies and radioactivity leaching from the soil into water, etc. In principle these pathways can

be extremely complex, involving many steps to get from the environment to a person. Various exposure pathways are shown in the pie chart entitled *Sources of Radiation Doses* on the next page.

From the perspective of human health, exposure to radiation is quantified in terms of radiation dose. Radiation dose measures the amount of energy deposited in biological tissues per weight of tissue. Thus, low energy radiation, such as visible light, yields a negligible radiation dose. Conversely, ionizing radiation, because it is high energy radiation, can deposit large amounts of energy, and hence a significant radiation dose. Radiation doses are commonly measured in units of rems or millirems (mrem). The most significant radiation dose received by the general public is due to radon exposure (pie chart). The average individual receives approximately 200 mrem per year (mrem/year) from radon and less than 1 mrem/year from nuclear facilities. Another 158 mrem/year is received from natural sources and medical procedures, of which 40 mrem/year comes from inside the body. Since the body is sustained by the consumption of food and water, these 40 mrem/year represent the average annual dose from food and water. The total average whole body dose nationwide is approximately 360 mrem/year, or approximately one mrem per day. The components of the average annual radiation dose from various sources is shown in the pie chart.

It should be emphasized that we typically find positive results in soils, water and foods for naturally abundant radioisotopes such as potassium 40, while the measured concentration of artificial radioactive materials in foods are generally below the lower limit of detection. The term "positive" result implies an analytical result measured that is greater than the calculated detection limit. The lower limit of detection represents the lowest practical level of radioactive contamination that can be measured in the laboratory, and is explained further in the *Data Interpretation of Program Results*. Thus the radiation dose to the general public from the consumption of foods is not discernable from the expected natural dose. The most significant exception to this occurred in the months after the Chernobyl accident in the USSR. At that time positive results for radioactivity in foods and water were found; however, the calculated total dose the average member of the public received was 1 mrem to the thyroid, and 0.2 mrem to the whole body (Reference 5). These doses are very small compared to the average whole body dose of 360 mrem/year received by the average citizen. The Department of Health considers the health impact of these doses to be negligible.

Sources of Radiation Doses



Estimated annual radiation dose of 360 millirem for an average person.

Source: National Council on Radiation Protection and Measurements

Radiation Standards

Inherent in all standards for radiation control is the philosophy of limiting exposure to levels "as low as reasonably achievable" (ALARA). In practice, this philosophy continues to result in the very low average doses to the public from nuclear facilities cited earlier. Monitoring program results continue to verify compliance to these standards.

The determination of radiation doses received by the general public requires a series of complex calculations. Based upon available data and mathematical models which describe behavior of radionuclides within body tissues, the EPA sets these primary standards based on dose. Secondary standards are often set in terms that easily relate to laboratory or field measurements, such as concentration of radioactivity. Table 2 presents selected examples of secondary standards: Drinking Water Standards (DWS) for drinking and surface waters within the State of Washington for several selected radionuclides. (Federal standards for these isotopes are equivalent.)

Table 2
Drinking Water Standards

Isotope	MCL (pCi/l)
Gross Alpha*	15
$^{226}Ra + ^{228}Ra$	5
Gross Beta	50
^{3}H	20,000
^{90}Sr	8
^{60}Co	100
^{99}Tc	900
^{125}Sb	300
U	N/A
^{137}Cs	200
^{131}I	3
^{129}I	1

*excluding uranium and radon

Gross alpha and radium activity, referenced in Table 2, are often due to naturally occurring sources within the earth's crust. They may also result from human activities such as ore processing. The radium maximum control limits (MCL) was developed based on a cost/benefit analysis, considering the cost of radium removal from water and the potential impact upon public health. There is currently no standard for uranium or radon in drinking water.

Gross beta activity results from nuclear weapons fallout, nuclear facilities effluents and naturally occurring sources. Gross beta MCL's are calculated from mathematical models incorporating the standard that the whole body or any internal organ must not receive a dose exceeding four millirem per year.

Tritium, a beta emitter, is displayed in Table 2 with a drinking water standard of 20,000 pCi/l. Tritium was the predominate radionuclide dose contributor from Hanford to the off-site public in 1991. The 4 mrem/yr dose is based upon drinking two liters per day of water contaminated with 20,000 pCi/l. The limit for tritium is markedly higher than other radionuclides for two reasons. First, tritium is a beta emitter with a very weak energy. The energy is so weak that conventional radiation detection equipment cannot detect the presence of tritium in the field. Secondly, tritium behaves similar to water and is evenly distributed throughout the body so that no one organ is targeted. The combination of these two characteristics makes the tritium DWS much higher than other radionuclides observed in the environment.

The Department sets control levels well below the MCLs for early detection of potential problems. Site specific levels for each radionuclide are calculated from existing baseline levels of environmental radioactivity. For water samples, control levels for gross alpha and gross beta are set at 5 and 15 pCi/l versus the secondary standards of 15 and 50 pCi/l, respectively. Facilities may discharge radionuclides at these levels provided no MCLs are exceeded in the environment. Current environmental levels of radiation in Washington State are generally far below both the MCL and control levels.

ENVIRONMENTAL RADIATION MONITORING PROGRAM

Environmental Monitoring

The Environmental Radiation Monitoring Program consists of several components. A major part is sample collection. Samples are collected routinely at statewide baseline stations and at specific facilities. Sampling is also done for special studies or investigations when problems are suspected or identified.

Media generally selected for sampling are those which may impact the public, including:

- air (inhalation and deposition);
- water (drinking, swimming, irrigation);
- milk (ingestion);
- fruits and vegetables (ingestion);
- soil (uptake by vegetables and pasture, resuspension in air);
- sediment (resuspension in water, uptake by aquatic organisms and fish);
- dosimeters (external exposure);
- pasture (animal ingestion); and
- fish (ingestion).

The routine program is designed to evaluate radioactivity levels in the environment over a period of time, both to assess compliance with appropriate standards and to determine trends. Trend analysis is necessary to identify a potential problem, to initiate corrective action and to reverse the trend. The state's independent program also serves as a cross check to verify the adequacy and accuracy of a facility's program. The sampling schedule of the 1991 routine program is outlined in Appendix D.

Results of routine and special sampling conducted in 1991 are discussed in *Program Results*.

Samples are analyzed by the Department's Public Health Laboratory in Seattle. A description of this facility and analytical methods is included in Appendix G. A summary of all samples analyzed in 1991 by the Laboratory is given in Table 3.

Table 3
A Summary of Samples Analyzed by the Public Health Laboratory (1991)

Type	Stations	Samples	Analyses
Surface Water	20	114	605
Ground Water	60	137	1335
Shellfish	2	8	25
Fish	4	15	82
Food	17	48	143
Milk	10	62	291
Vegetation	8	35	116
Air	9	376	844
Soil/Sediment/Sludge	43	50	360
Dosimeters (Ambient Gamma (TLD))	68	703	4624
Quality Control	--	45	450
Water Filters	6	8	24
Wipe Samples	--	264	365
Miscellaneous	3	0	0
Drinking Water	195	224	304
Total	445	2089	9568

Other major components of the program involve special studies, inspections, reviews and investigations. These do not necessarily involve the collection of samples for analysis. These investigations are summarized in *Program Results* under the appropriate facility or area.

Areas and Facilities Monitored

The Department monitors statewide to assess radiological conditions resulting from naturally occurring radioactivity and to develop a background baseline from which the impact of specific facilities and events can be evaluated. Monitoring locations for the statewide program are illustrated on Figure 1.

In addition to the statewide baseline, site specific monitoring is conducted at the following locations:

- **The Hanford Nuclear Reservation, operated by the U.S. Department of Energy.** Hanford is a 570 square mile site located along the Columbia River in south central Washington, directly north of Richland. Facilities include eight retired reactors which were used to irradiate fuel for the extraction of weapons grade material and which operated with once-through cooling systems; the N Reactor, a graphite moderated reactor with a closed cooling system used until 1987 for the same purpose; the Fast Flux Test Facility (FFTF), a sodium cooled reactor used for research and development; nuclear fuel reprocessing and purification facilities; numerous research and development and waste management facilities; and hundreds of radioactive waste storage and disposal sites. The monitoring network on the Hanford site is illustrated on Figure 2. Stations in the Hanford region are illustrated on Figure 3.

- **Washington Public Power Supply System's Nuclear Plant No. 2 (WNP-2).** The WNP-2 reactor is a 1,135 Megawatt electric (Mwe) boiling water reactor located on the Hanford Reservation approximately nine miles north of Richland. The WNP-2 reactor first achieved criticality on January 19, 1984. Monitoring specific to this facility is illustrated on Figure 4 and includes sites illustrated on Figure 2.

- **Portland General Electric's Trojan Nuclear Power Plant.** The Trojan Power plant is a 1,130 Mwe pressurized water reactor located on the Oregon side of the

Columbia River three miles northwest of Kalama, Washington. The Trojan reactor first achieved criticality on December 15, 1975. The monitoring sites are illustrated on Figure 5.

- **Western Nuclear Uranium Mill.** This uranium mine and mill, also known as the Sherwood Uranium Project, has been operated by Western Nuclear, Incorporated. It is located on the Spokane Indian Reservation near Wellpinit in northeast Washington. The company has not operated this facility since 1982. The Department's monitoring stations are illustrated for all three mills on Figure 6.

- **Dawn Mining Uranium Mill.** The Dawn Mining Company operated this uranium mine and mill from 1957 to 1982. Although the mill is located near Ford, the mine (known as the Midnight Mine) is located on the Spokane Indian Reservation. The company is currently in the process of preparing the site for permanent closure.

- **Joy Mining Uranium Mill.** This uranium mine and mill was operated by the Joy Mining Company from 1983 to 1985. Operations ceased in 1985 and it was decommissioned in 1989. The site is located near Colville.

- **US Ecology, Incorporated.** US Ecology operates a commercial low-level radioactive waste disposal site located on state leased land in the center of the Hanford Reservation. It has operated since 1965. The Department's monitoring stations are illustrated on Figure 7. In addition, the Department monitors USDOE wells adjacent to US Ecology.

- **Allied Technology Group.** Allied Technology Group operates a low-level waste compaction facility at Richland. Monitoring continues at their previous site in Yakima which goes under the name of Allied Consulting, Inc. Monitoring sites are illustrated on Figures 8 and 9.

Radon

The radon program marked progress on several fronts--in health effects research, in a project for schools, in the development of a

statewide building code, in the expansion of the radon database, and in the maintenance of the radon information line.

- The radon program staff, working with the Department's Health Effects Committee of the Radon Task Force, published a report on the health effects of radon. The report finds no direct evidence that radon either causes or does not cause lung cancer at concentrations below 4 pCi/l, but accepts the National Academy of Sciences BEIR IV risk estimates, and advises that the Department of Health accept the U.S. Environmental Protection Agency action level of 4 pCi/l for residential exposures.

- A two year project to assist schools in the development of a radon testing and mitigation strategy culminated in the publication of the *School Radon Action Manual*. The radon staff collaborated with a Spokane area school district and with state and national leaders in the field to produce a model program for use throughout the state and the country.

- The radon program provided technical assistance to the State Building Code Council as that body wrote radon prescriptive requirements into the state building code. The new code also mandates that owners of new homes receive a radon monitor so that they can test their homes. The radon program developed and published an informational brochure to be distributed with the monitors.

- Completion of the first phase of the Washington/EPA Residential Radon Survey contributed significantly to the radon database. The survey finds that, on average, the northeast part of the state has the highest radon levels, while the southeast has moderate levels and the western side of the state has low levels.

- The radon information line (1-800-323-9727) continues to get consistent use on an average of 60 to 70 calls per month. Most callers ask questions that the program can answer in a standard homeowners' packet of brochures and fact sheets.

Table 4
Radon Measurements in Washington State

COUNTY	POPULATION	TOTAL TESTS	AVERAGE pCi/l	HIGH pCi/l	# > 4 pCi/l	% > 4 pCi/l
ADAMS	14000	23	1.5	5.7	2	8.7
BENTON	104100	1443	1.3	21.4	33	2.3
CHELAN	49700	221	1.7	15.7	10	4.5
CLALLAM	54400	1489	0.7	36.7	23	1.5
CLARK	214500	3933	1.5	22.1	169	4.3
COLUMBIA	4100	2	0.8	1.1	0	0
COWLITZ	80500	723	0.6	5.9	5	0.7
DOUGLAS	24100	153	1.7	8.1	7	4.6
FERRY	6100	49	2	9.2	5	10.2
FRANKLIN	35500	406	1.1	10.9	4	1
GARFIELD	2400	6	1.1	1.6	0	0
GRANT	52600	134	1.9	42.3	12	9
GRAYS HARBOR	64400	561	0.7	43.4	7	1.2
ISLAND	53400	191	0.5	31.4	1	0.5
JEFFERSON	18600	29	0.3	0.3	0	0
KING	1413900	1065	0.6	77.9	4	0.4
KITSAP	177300	18	0.6	1.5	0	0
KITTITAS	25000	339	1.6	11.6	24	7.1
KLICKITAT	16600	183	1.1	9.7	1	0.5
LEWIS	57400	253	1	17.6	7	2.8
LINCOLN	9700	16	1.6	2.8	0	0
MASON	36800	412	0.5	5.6	1	0.2
OKANOGAN	31700	12	2.3	9.1	2	16.7
PACIFIC	17600	185	0.8	13.8	5	2.7
PEND OREILLE	8800	7	1.8	3.7	0	0
PIERCE	547700	3048	0.9	46.5	97	3.2
SAN JUAN	9600	11	0.3	1.4	0	0

COUNTY	POPULATION	TOTAL TESTS	AVERAGE pCi/l	HIGH pCi/l	# > 4 pCi/l	% > 4 pCi/l
SKAGIT	70800	4	0.4	0.8	0	0
SKAMANIA	8000	327	4.2	52.2	95	29.1
SNOHOMISH	409500	6738	0.4	16.1	8	0.1
SPOKANE	354100	676	5.3	92.4	244	36.1
STEVENS	30200	46	8.3	47.3	26	56.5
THURSTON	149300	172	0.7	3.4	0	0
WAHKIAKUM	3500	26	1.3	3.1	0	0
WALLA WALLA	48300	18	2.3	6.2	5	27.8
WHATCOM	119100	9	0.6	2	0	0
WHITMAN	39000	31	1.1	4.4	1	3.2
YAKIMA	186300	65	1.3	5.2	2	3.1
STATE TOTALS	4565000	23024	1.1	92.4	800	3.47

Meaning of Radon Results

The Department of Health recommends that the United States Environmental Protection Agency guidance be followed. If homeowner test results are:

4 pCi/l or lower — A 4 pCi/l air concentration is slightly above average. Although exposures in this range mean there is some risk of lung cancer, reducing the level may be difficult, sometimes impossible.

4 to 20 pCi/l — This level is above average. Take action within a few years to reduce the level of radon, sooner if the levels are at the upper end of this range.

20 to 200 pCi/l — This level is greatly above average. Take action within several months to reduce the radon level.

200 pCi/l or higher — This is the highest level. Take action within several weeks to reduce the level of radon. If this is not possible, a decision should be made,

after talking to the Department of Health, as to the need to leave temporarily until the levels can be reduced.

Explanation of Radon Data Summary

Data for this summary were supplied by the Bonneville Power Administration (BPA). The data were collected from 1975 through 1991 as part of BPA's weatherization program. These data are weighted by the number of electrically heated homes weatherized and monitored through large utility conservation programs located in Western Washington. Therefore, both BPA and the Department of Health (DOH) recommend that no conclusions be made on a countywide or statewide basis and the results presented are for illustrative purposes only.

The data points were reported in U.S. Geological Survey designated range and township locations and later converted by DOH to county format. In the Weatherization Program, the data are collected from passive alpha-track radon detectors placed in residences for a minimum of three winter months and a maximum of one year.

Data points must meet the following criteria to be included in this summary:

- Each test must have valid township and range designations.
- Each test must have beginning and ending dates.
- Each test must be for 90 days or more.

Laboratory Services and Quality Control

Quality assurance for the laboratory is accomplished through a quality assurance program. The program contains quality control elements that help ensure the laboratory's high analytical proficiency and accuracy. Laboratory quality control includes analysis of samples distributed by the federal government's quality assurance programs; split samples distributed on a smaller scale between cooperating federal, state and private laboratories; and internal procedures relating to the counting facilities and analytical techniques. The results from federal intercomparison programs are summarized in Appendix F.

The Environmental Radiation Section's quality assurance functions ensure that the sample collection, transfer, data entry and analysis are performed in accordance with internal procedures. These steps are necessary to ensure no bias is introduced to a sample.

Analytical methods and associated laboratory equipment are described in Appendix G. Procedures are based on standard methods.

Lower limits of detection (LLD) for specific radionuclides in various media are given in Appendix H. Formulae used to determine lower limits of detection and random uncertainties are also listed here. The LLD for most radionuclides is several orders of magnitude less than drinking water standards. As a result, a sample result near the LLD (where most environmental levels are) is not considered to pose a health risk.

PROGRAM RESULTS

A Guide to Data Presentation and Interpretation

Data Presentation

The levels of radioactivity of the samples for this report were measured at the Department of Health's Public Health Laboratories in Seattle. Analytical techniques are based on standard methods. This facility serves as a regional reference laboratory and as such includes a rigorous quality assurance program. This program contains quality control elements which help ensure the laboratory's high analytical proficiency and accuracy. Laboratory quality control includes analysis of samples distributed by the federal government's quality assurance programs; split samples distributed on a smaller scale between cooperating federal, state and private laboratories; and internal procedures relating to the counting facilities and analytical techniques. The Environmental Radiation Section's quality assurance programs ensure that the sample collection, transfer, data entry and analysis are performed in accordance with internal procedures. These steps are necessary to ensure no bias is introduced to a sample. Greater detail on the analytical techniques and quality assurance program can be found in Washington State Environmental Radiation Program Annual Reports (Reference 4).

Data Interpretation

Radioactivity measurements for samples collected by the Department are reported in terms of sample concentration. The Curie, Ci, is the basic unit of radioactivity and is defined as the activity in one gram of radium 226. Environmental data are generally reported in fractions of a Curie. Data in this report are reported in picoCuries (pCi), which is one trillionth of a Curie. One picoCurie equals 2.22 nuclear decays per minute. The concentration in each sample reflects the radioactivity per a sample weight or volume as the case may be. Radioactivity concentrations in liquids are reported in terms of picoCuries per liter (pCi/l). Radioactivity in solids are calculated in picoCuries per gram (pCi/g) on a wet or dry weight basis. "Wet weight" essentially means that the radioactivity concentrations reported apply to various media before any drying process has been applied to them. Dry weight means just the opposite. Since many radioisotopes decay rapidly, the measured radioactivity of a sample may be less than at the time of collection. The Department routinely reports the sample activity calculated to be the activity at time of collection.

All radioactivity measurements for samples are reported with an uncertainty. The uncertainty arises for a number of reasons including imperfections in the apparatus or procedure, human error and counting uncertainty. The counting uncertainty arises because radioactive decay is a random process. This means that if one counts the radioactive decays of a sample several times, each for a fixed time, one will find that the measured number of decays varies randomly. However, these random answers all cluster near an average value. For example, if one were to measure the decays of a sample for one minute and count ten decays, subsequent minute-long measurements might find 9 decays, 7 decays, 12 decays, etc. It is usually assumed that the counting uncertainty is the dominant uncertainty. The uncertainties we report are the counting uncertainties only. The interpretation of this is that we are 95% confident that the true concentration in the sample lies somewhere between the measured concentration minus the counting uncertainty and the measured concentration plus the counting uncertainty.

The randomness of radioactive decay is difficult to understand, but there is an example of random levels of radiation from everyday life. Radiowaves are very low energy radiation. Their energy is even lower than visible light. Sources of radiowaves include human activities such as radio towers, as well as natural sources such as the sun. If one tunes a radio to "between stations" one hears what is termed "static" or "noise". This noise has an average value, or loudness, that is analogous to the measured level of radioactivity as discussed above. However, the noise also fluctuates randomly about the average noise rather than sounding like a constant tone. These random fluctuations of radiowaves are analogous to the random number of counts observed in a measurement of radioactivity. These fluctuations lead to an uncertainty in a measurement of average noise just as there is a counting uncertainty in a radioactivity measurement.

One consequence of the uncertainties in a measurement of radioactivity is that it is not possible to determine a zero concentration of a radioisotope. Rather, when the uncertainty is such that one cannot distinguish between the sample and background counting rates, we report that the sample radioactivity is less than some concentration. This minimum concentration is termed the Lower Limit of Detection (LLD). Practical sample size, counting time and background radiation all combine to determine the LLD. The LLD for most radioisotopes is at least several orders of magnitude (factors of ten) less than drinking

water standards in water and Washington State levels of concern in foods. As a result, a sample result near the LLD, where most environmental levels are, is not considered a health risk. The method used to calculate an a priori LLD is described in Appendix H.

Environmental radiation monitoring is frequently conducted where radioactivity cannot be distinguished from background radiation. Throughout the report, the calculated activity and 1.96 sigma counting error term are reported, even if they are below the LLD or are negative. Numbers below the a priori detection limit occur when the average background count rate exceeds the sample count rate. Results from radionuclide analysis are used for assessing the quality of a facility's data, evaluating changes or trends in environmental conditions, and calculating an individual or population dose.

Table 5 lists the radionuclides that can be found in environmental media. The half-life for each radionuclide is also included in the Table.

Table 5
Radionuclide Nomenclature

Radionuclide	Symbol	Half-Life	Radionuclide	Symbol	Half-Life
tritium	^{3}H	12.3 yr	cesium-137	^{137}Cs	30.2 yr
carbon-14	^{14}C	5730 yr	barium-140	^{140}Ba	12.79 d
sodium-22	^{22}Na	2.6 yr	cerium-144	^{144}Ce	284 d
potassium-40	^{40}K	1.28×10^{9} yr	promethium-147	^{147}Pm	2.62 yr
argon-41	^{41}Ar	1.8 h	europium-152	^{152}Eu	12 yr
chromium-51	^{51}Cr	27.7 d	europium-154	^{154}Eu	16 yr
manganese-54	^{54}Mn	312 d	europium-155	^{155}Eu	1.8 yr
cobalt-57	^{57}Co	270.9 d	bismuth-212	^{212}Bi	60.6 min
cobalt-60	^{60}Co	5.3 yr	polonium-212	^{212}Po	0.3×10^{-6} s
nickel-63	^{63}Ni	92 yr	polonium-216	^{216}Po	0.15 s
zinc-65	^{65}Zn	243.8 d	radon-220	^{220}Rn	55.6 s
krypton-85	^{85}Kr	10.7 yr	radium-226	^{226}Ra	1600 yr
strontium-89	^{89}Sr	52 d	radium-228	^{228}Ra	5.75 yr

Radionuclide	Symbol	Half-Life	Radionuclide	Symbol	Half-Life
strontium-90	^{90}Sr	28.8 yr	thorium-230	^{230}Th	7.7×10^4 yr
niobium-95	^{95}Nb	36 d	thorium-232	^{232}Th	1.4×10^{10} yr
zirconium-95	^{95}Zr	64.0 d	uranium total	U or uranium	---
molybdenum-99	^{99}Mo	66.0 h	uranium-234	^{234}U	2.4×10^5 yr
technetium-99	^{99}Tc	2.12×10^5 yr	uranium-235	^{235}U	7×10^7 yr
ruthenium-103	^{103}Ru	39.4 d	uranium-236	^{236}U	2.3×10^7 yr
ruthenium-106	^{106}Ru	367 days	uranium-238	^{238}U	4.5×10^9 yr
tin-113	^{113}Sn	115 d	plutonium-238	^{238}Pu	87.7 yr
antimony-125	^{125}Sb	2.7 yr	plutonium-239	^{239}Pu	2.4×10^4 yr
iodine-129	^{129}I	1.6×10^7 yr	plutonium-240	^{240}Pu	6537 yr
iodine-131	^{131}I	8.0 d	plutonium-241	^{241}Pu	14.4 yr
cesium-134	^{134}Cs	3.1 yr			

s = Seconds
h = Hours
d = Days

Routine Program Sampling Results

Statewide Baseline

The majority of samples collected directly relate to a specific facility. Some samples, however, are collected in areas unlikely to be influenced by any facility operations. These samples provide reference data for assessing the statewide baseline radiation levels. Radiation measured in these samples results from natural radioactivity and atmospheric testing of nuclear weapons.

- Surface Water

  Monthly grab samples of the Cedar, Skagit, Yakima and Puyallup Rivers are collected and analyzed. Monthly composite samples of the Columbia River are taken at the Richland City Water Treatment Plant. The results of these analyses are listed in Table A-11. Chart 1 displays annual average gross beta results for the Puyallup, Skagit and Columbia Rivers. The

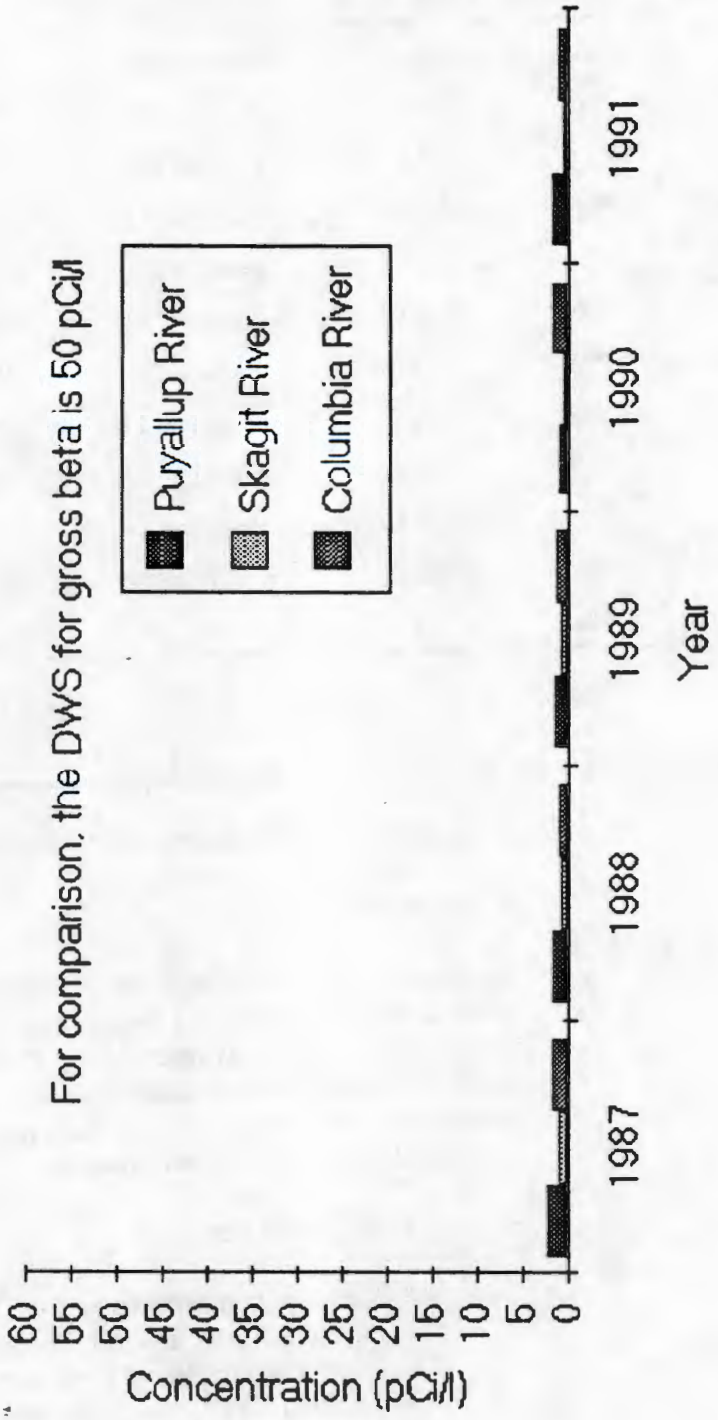


CHART 1. STATEWIDE GROSS BETA

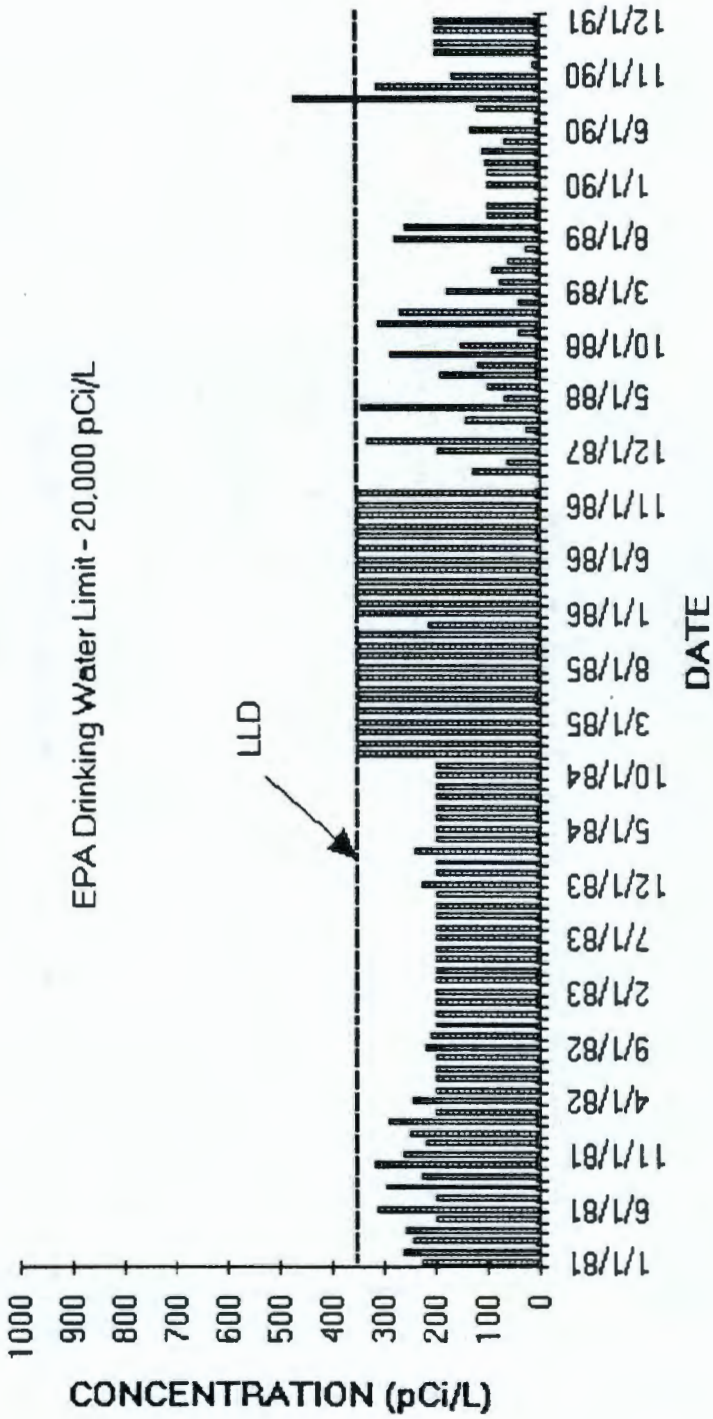


CHART 2. MONTHLY TRITIUM CONCENTRATIONS IN COLUMBIA RIVER AT HANFORD

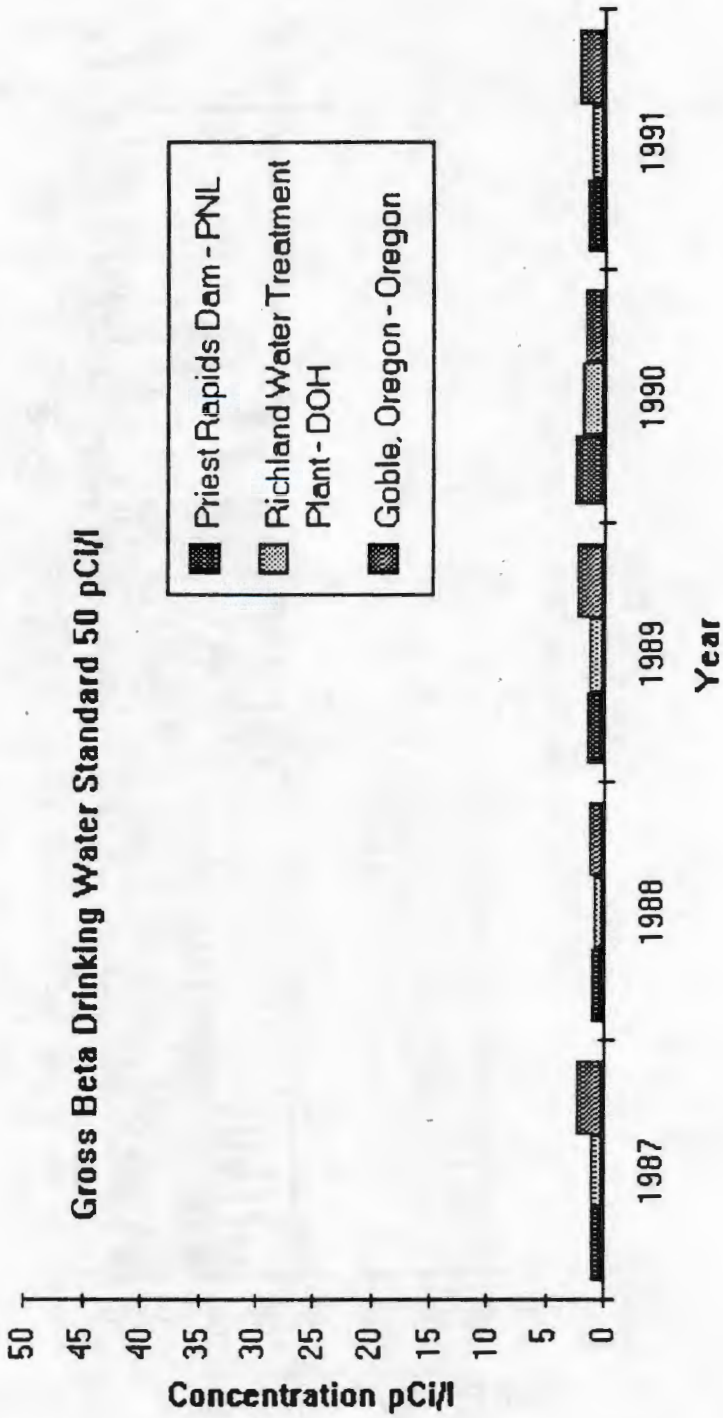


CHART 3. GROSS BETA ACTIVITY IN THE COLUMBIA RIVER AT HANFORD

concentrations for the three rivers shown, as well as the Cedar and Yakima Rivers (not displayed), are well below the 50 pCi/l DWS. It is interesting to note that the Columbia River results mirror the concentrations measured in other rivers in the state. Error terms for the results displayed were comparable and were omitted for ease of comparison.

Columbia River tritium concentrations and gross beta activity for the past ten years are displayed in Charts 2 and 3, respectively. The tritium concentrations reported in Chart 2 are shown in contrast to the 20,000 pCi/l DWS. Recent tritium results are less than 1% of the DWS. Chart 3 displays a decreasing trend in gross beta activity over the years to levels that now mirror other rivers i n the state, as Chart 1 shows

EPA drinking water results from Seattle and Richland are listed in Table C-2. Results from quarterly EPA sampling of the Columbia River at Northport and Richland are included in Table C-3. All of the results from the drinking water and surface water systems are well below the maximum contaminant level (MCL) allowed in the state (see Table 2).

Air Sampling

Monitoring of radioactivity in air is performed in Olympia and Spokane in cooperation with EPA as part of their nationwide environmental radiation surveillance program. Air particulate samples from a continuous air sampler are collected weekly and sent to the EPA for analysis. The Department operates an additional air sampler at Olympia. The gross beta analysis of these samples allows evaluation of changes and trends in ambient air quality. Charts 4 and 5 show the 1980 to 1991 gross beta in air results at Olympia and Spokane. Radioactivity resulting from past atmospheric nuclear tests and from the Chernobyl accident are evident. Results from 1991 EPA samples are found in Table C-1. Department of Health results are found in Table A-1. Gross Beta results remained within expected background range during 1991.

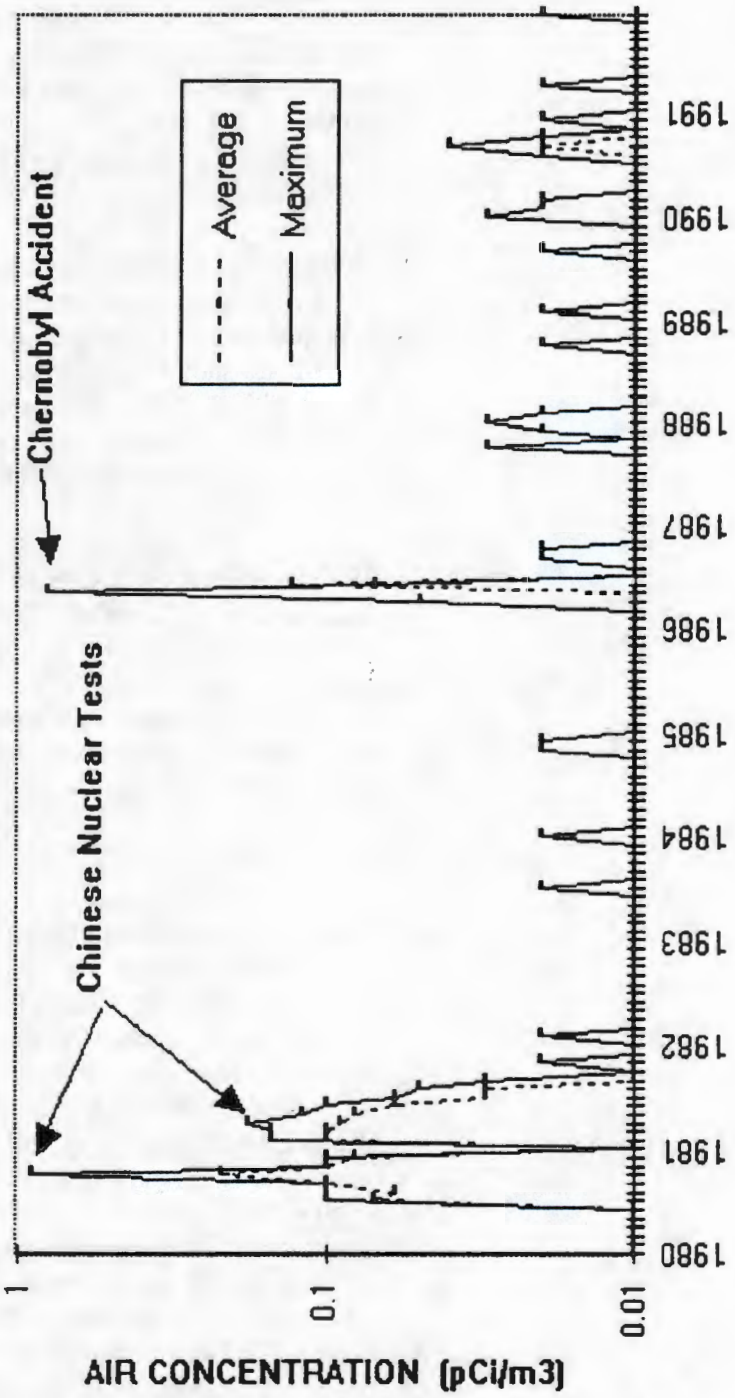


CHART 4. AVERAGE AND MAXIMUM GROSS BETA IN AIR IN OLYMPIA (RELOCATED FROM SEATTLE IN JANUARY 1986)

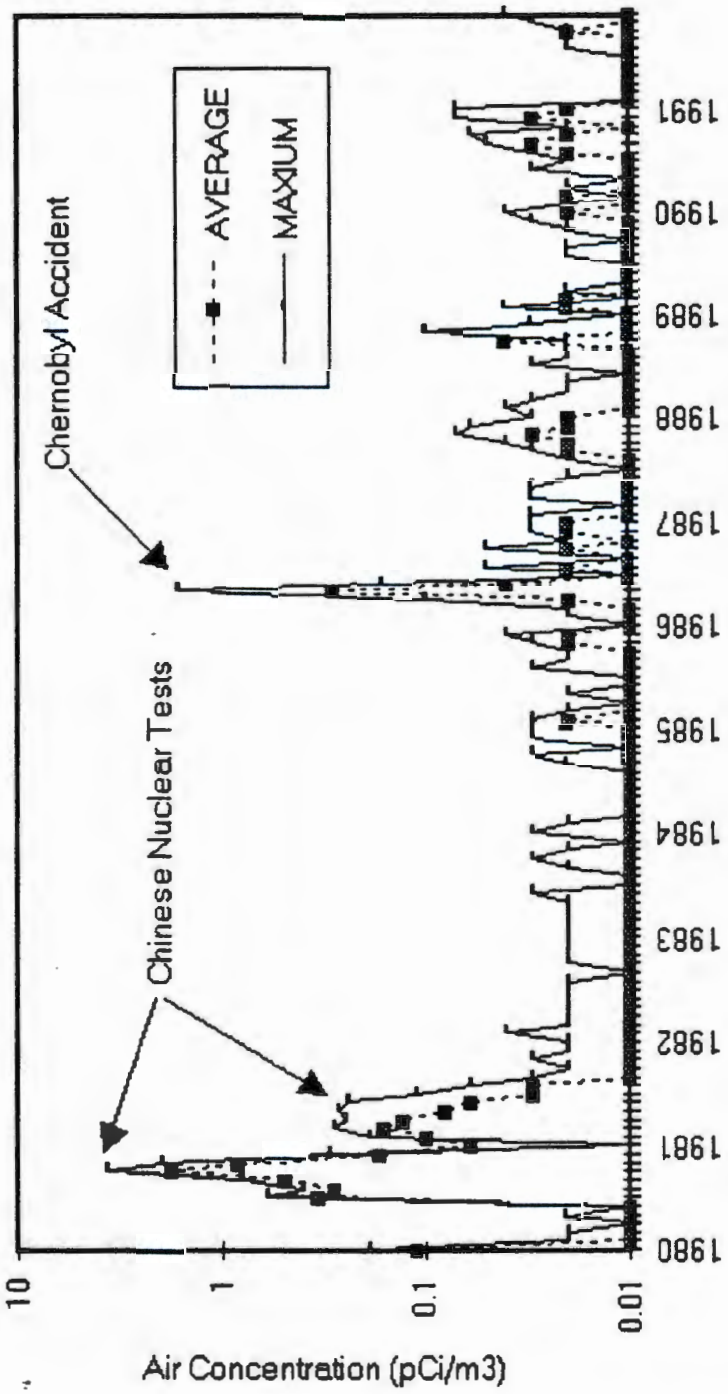


CHART 5. AVERAGE AND MAXIMUM GROSS BETA IN AIR FOR SPOKANE 1980 THROUGH 1991

- Ambient Gamma Radiation

In addition to facility specific monitoring, ambient gamma radiation is measured at Spokane, Richland, Seattle, Olympia, Elma and Kalama. Ambient gamma radiation is measured with thermoluminescent dosimeters (TLDs). These in situ dosimeters remain in the field for one quarter of one year and are exposed to natural radioactivity, both terrestrial and cosmogenic sources. Quarterly results are given in Table A-12. Table A-13 gives the 1988 to 1991 annual average ambient gamma radiation levels for all locations. Facility TLD results are included with results from several cities. A comparison of results from various cities in the state indicates that eastern Washington cities are consistently higher in ambient radiation dose rates than cities on the western side of the state. The elevated dose rate on the eastern side of the state is expected because of the higher natural uranium content in the soil of this region.

- Milk

Results of milk analyses performed by DOH are given in Tables A-7. Milk samples are analyzed for radionuclides resulting from both natural sources and nuclear fission. The source of fission could originate either from fallout due to atmospheric weapons testing or nuclear facility operations. As shown in Table A-7, the samples were collected from Skagit County and in the vicinity of Trojan and WNP-2 commercial power plants. The only radionuclide detected greater than the detection limit was potassium 40, a naturally occurring radioisotope.

- Food

In cooperation with the Department of Agriculture, the Department analyzes and certifies that food for export is free from radionuclide contamination. In 1991, 41 export certificates were issued. Results of the food analysis are found in Table A-5. Further discussion of sampling results from the eastern side of the state can be found under *Hanford Environmental Oversight Program.*

Uranium Mills

Three uranium mills operated in Washington State during the 1950s and early 1980s: Dawn Mining Company, Western Nuclear, Inc., and Joy Mining Company. Each is located in the northeast region of the state (Figure 6). As demand for uranium slowed due to lower commercial development, the mills ceased operation. Joy Mining Company has been decommissioned and closed. Western Nuclear andf Dawn Mining Company are in th eprocess of planning their closures. Washington State is the leaseholder for the Joy Mining Company site. Monitoring at the mills consists of evaluating the possible pathways for exposure to people. This monitoring includes ground and surface water analysis, ambient gamma radiation, soil and sediment monitoring and analysis of fish.

- Groundwater and Surface Water

A seep near the Dawn Mining Site allows elevated levels of uranium, originating from the upgradient mine tailings impoundment area, to enter Chamokane Creek. Chart 6 displays the analytical results for the seep, a uranium concentration of 275 pCi/l. The increasing uranium trend over the past several years appears to have leveled off. A review of the surface water results in Table A-11 indicates that the average concentration in the creek is 5 pCi/l. The creek uranium concentration is roughly a factor of ten higher than upstream uranium concentrations (SW-5 average .5 pCi/l), but less than the proposed drinking water standard of 30 pCi/l for natural uranium. Chart 7 displays the downstream uranium concentration over the past 10 years. The groundwater results in Table B-10 also support the conclusion of water movement toward the creek as evidenced by the elevated uranium results.

Surface water samples taken in Flodel Creek, near the Joy Mining site, show semi-annual concentrations of 3 and 8.4 pCi/l. The variations in uranium concentrations are seasonal fluctuations.

Chart 8 displays the downstream surface water concentrations of uranium in Franklin Roosevelt Lake for the Western Nuclear site. The current results are a factor of four less than the peak in 1983. Natural uranium concentrations in pumphouse seep water is displayed in

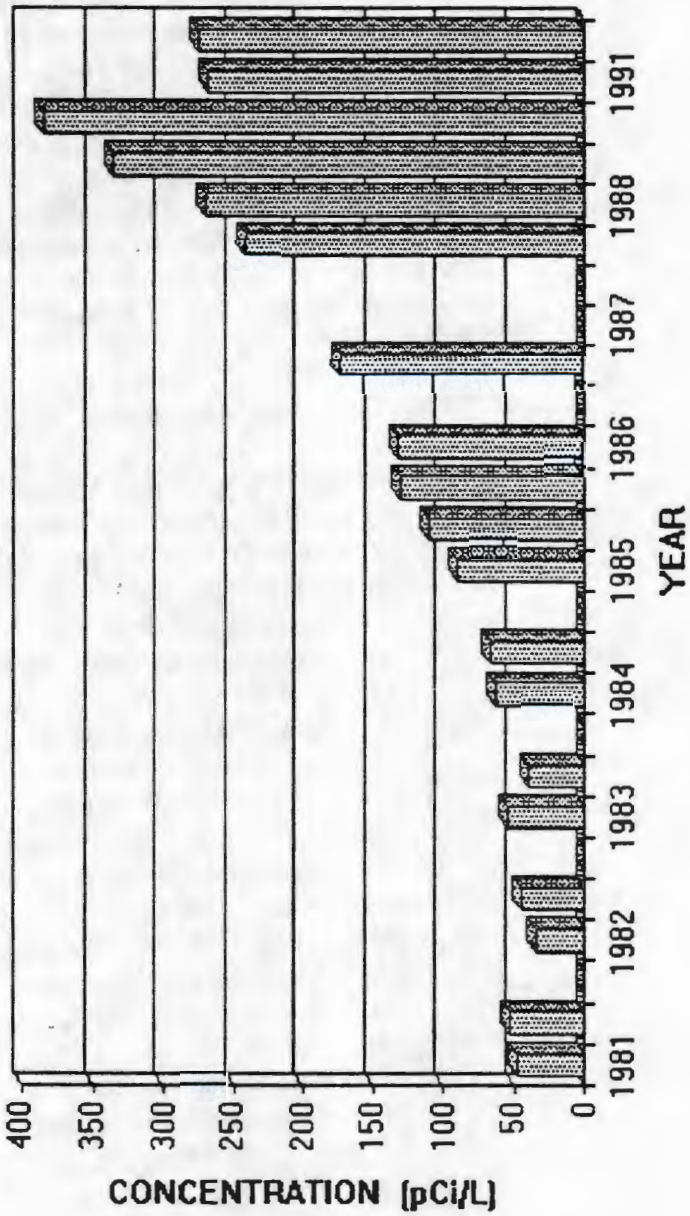


CHART 6. NATURAL URANIUM AT DAWN MINING COMPANY STATION SW-2D

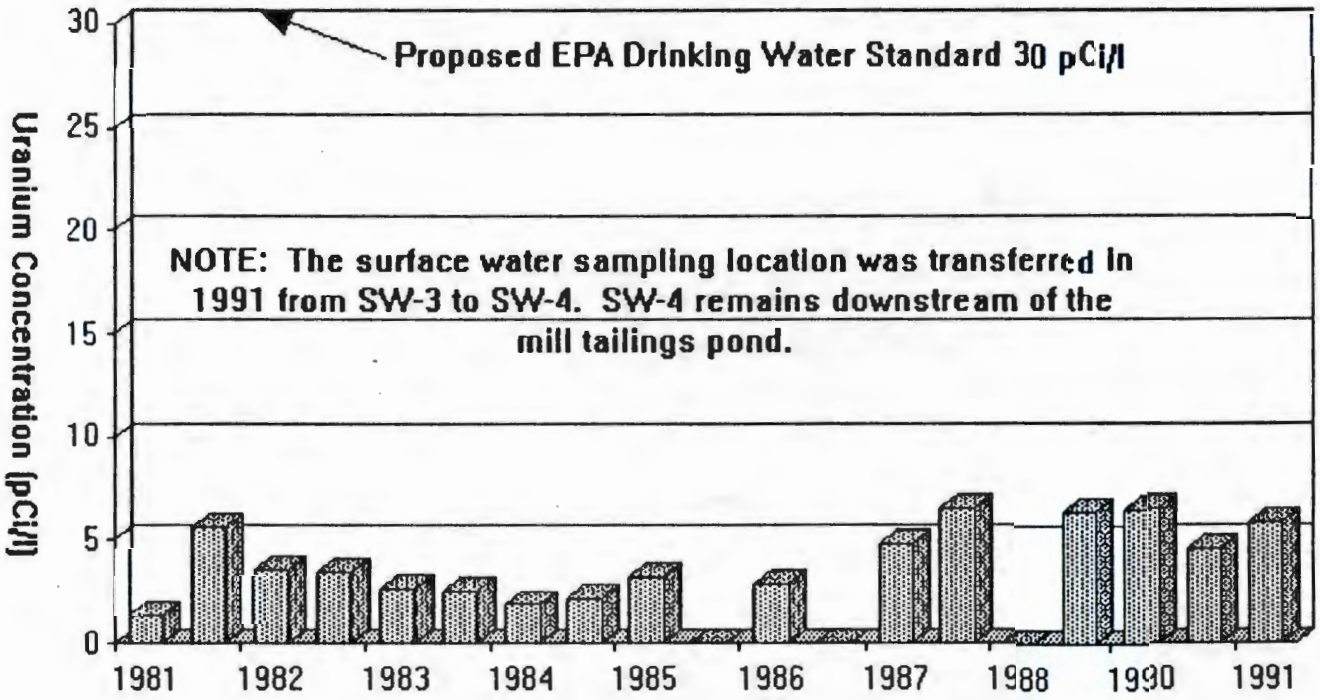


CHART 7. DAWN MINING COMPANY NATURAL URANIUM IN SURFACE WATER

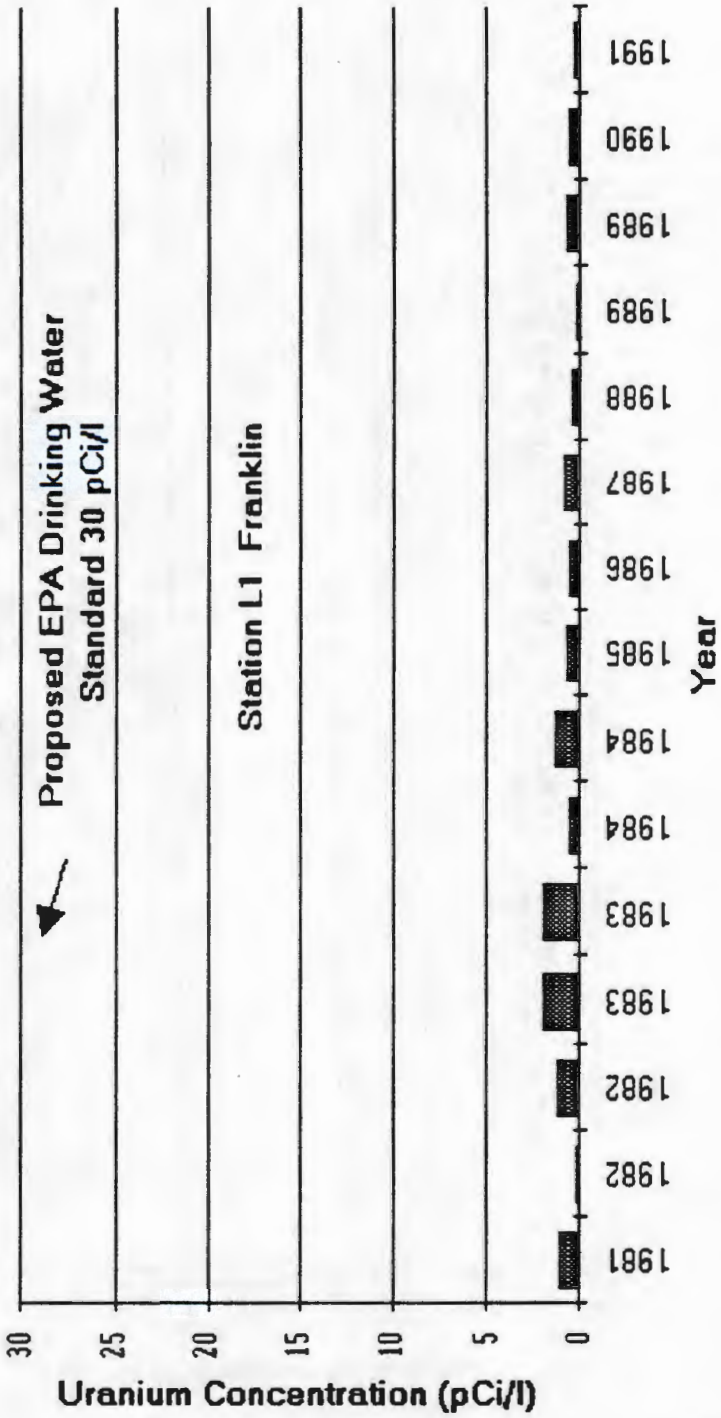


CHART 8. URANIUM CONCENTRATIONS IN SURFACE WATER NEAR WESTERN NUCLEAR, INC., MINING SITE

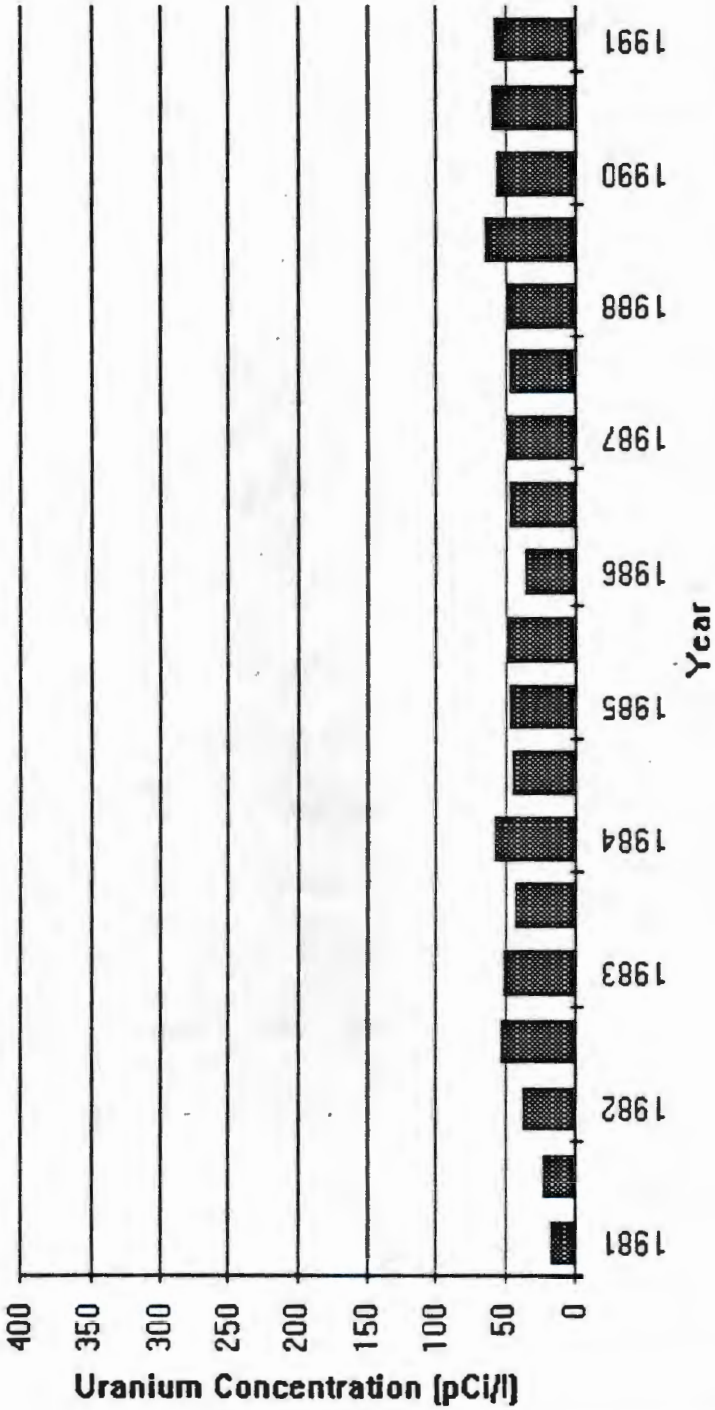


CHART 9. NATURAL URANIUM CONCENTRATIONS IN PUMPHOUSE SEEP WATER AT WESTERN NUCLEAR, INC., SITE

Chart 9. The 1991 average is 60 pCi/l. Results from the seep for the past 10 years are consistent.

- Ambient Gamma Radiation

Tables B-3 and B-15 display the results from the TLDs placed near Dawn Mining Company and Western Nuclear, Inc., respectively. Table A-13 shows the annual ambient gamma radiation results in comparison to previous years. The higher levels at the mills reflect higher uranium levels present in that part of the state and specifically at the mills.

- Fish

A follow up study to the 1990 fish analyses was performed in 1991. Table A-4 displays the results of the 1991 fish analyses. Both the 1990 and 1991 analyses indicated only a trace amount of uranium present and, as such, does not pose any concern for public health.

- Uranium Mills Soils/Sediment

Table A-10 shows the result of a soil analysis performed on a sample near the Dawn Mining Company mill building. A total uranium concentration of 27 pCi/g indicates there are probably some elevated locations requiring remediation. The sediment result in Table A-8 displays the concentration found in a sample taken from Chamokane Creek. Although one sample in each location is by no means statistically significant, it does provide an indication of potential impacts to off-site environs. The 2.7 pCi/g sediment result is indicative of conditions found in that region of the state.

A soil sample taken within the site boundary at Western Nuclear displayed no elevated results. A sediment sample taken downstream of Joy Mining Company in Flodel Creek did, however, reveal an elevated uranium concentration of 127 pCi/g and is cause for further analysis.

Hanford Environmental Oversight

The Hanford site has the highest potential for affecting the population due to the number of possible exposure pathways. As current production and fuel reprocessing facilities have ceased operation, monitoring of the site and its environs is specifically targeted to waste and contamination resulting from previous operations. Exposure scenarios involve the contaminated groundwater plumes reaching the Columbia River, plant uptake of contaminated water, fish, animal and waterfowl ingestion of the contaminated water as well as plants, and resuspension of contaminated soil into the air. The calculated dose to man from all of these sources is extremely small in comparison to the total dose received from all other radiation sources.

- Groundwater and Surface Water

Groundwater sampling locations on the Hanford Site were established to monitor the extent of contamination and verify the results obtained by Westinghouse/PNL. The groundwater data are compiled in Table A-6. Groundwater contamination originates from the 200 East and West areas, where tritium, cobalt-60, strontium-90, uranium, cesium-137, and plutonium can be found. In the 300 areas, a large uranium plume is present due to the presence of several uranium processing trenches where uranium contaminated waste was disposed of. Along the Columbia River, a uranium plume can be found in the 100-F area, tritium and uranium near the 100-H area, and strontium-90 and tritium near the 100-N area. In several locations, contaminated groundwater, and in particular the tritium plume originating from 200 East, have reached the Columbia River. As a result, the Department also monitors the Columbia River in order to determine the off-site impact of the groundwater contamination.

Chart 10 displays the gross beta results from the Columbia River from several locations, both upstream and downstream of Hanford. Priest Rapids Dam and the Richland Water Treatment Plant are located just upstream and downstream from the Hanford Site, as can be seen on Figure 2. The results of the gross beta analysis fail to show any discernable trend as a result of the groundwater contamination. Chart 11, the average yearly tritium results from the Columbia River, does indicate a difference

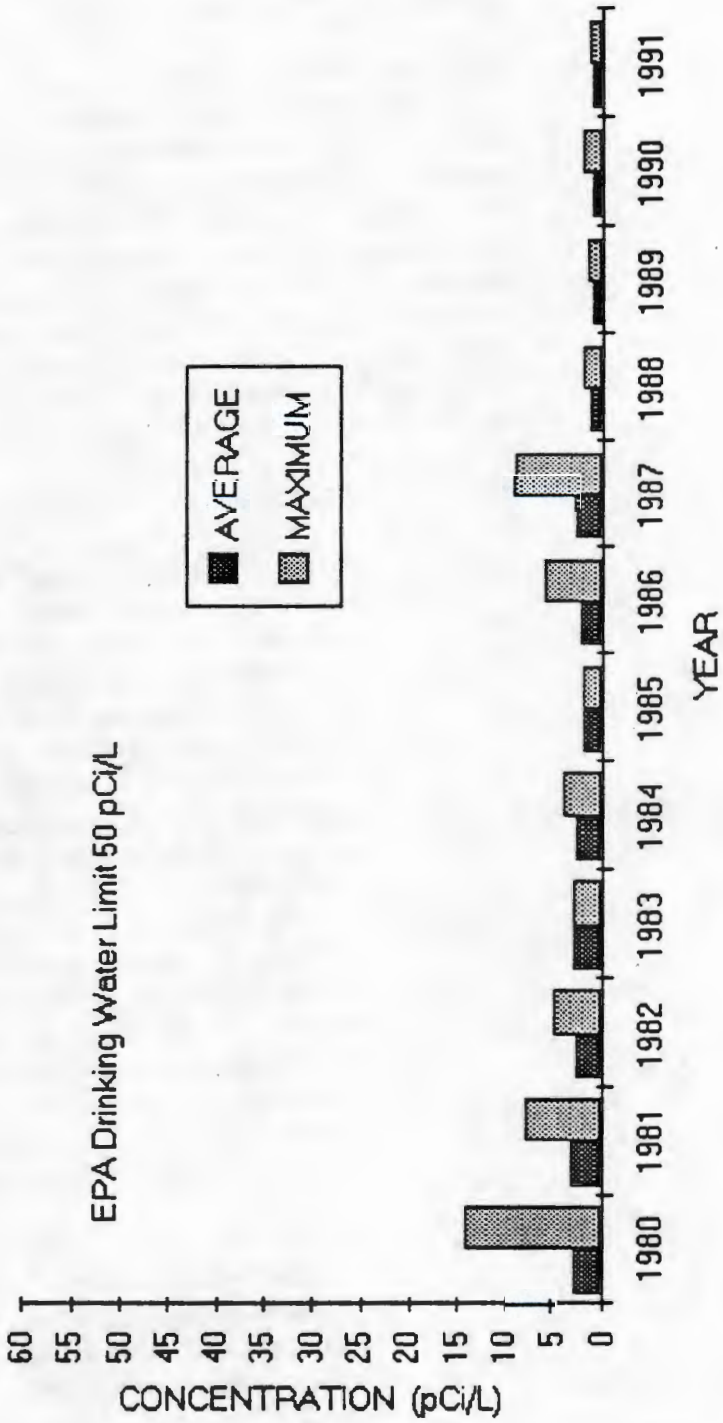


CHART 10. GROSS BETA CONCENTRATIONS FROM VARIOUS LOCATIONS ON THE COLUMBIA RIVER

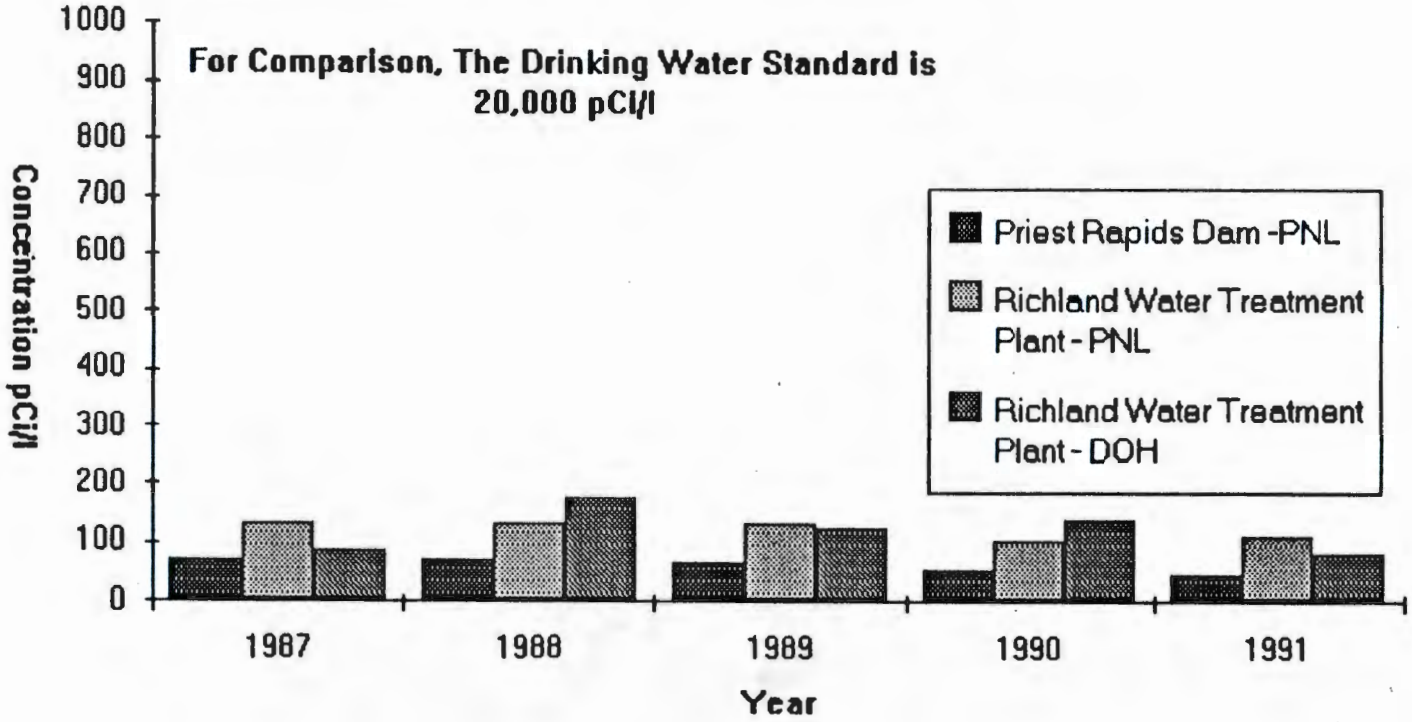


CHART 11. COLUMBIA RIVER AVERAGE YEARLY TRITIUM RESULTS

between upstream and downstream concentrations. The upstream data for Priest Rapids Dam was furnished by PNL. The Goble, Oregon, results were supplied by the Oregon Health Division. The downstream results of both PNL and DOH indicate a close agreement in results. As is evident from the graphs, the river concentrations are only 1% to 2% of the drinking water standard.

- Soil

Results from soil samples taken on the Hanford Site are included in Table A-10. Table B-7 shows a comparison of soil samples collected by DOH and USDOE through PNL. The comparison soil samples indicate good agreement between the two organizations. A closer inspection of the results in Table A-10 reveals that uranium results were higher in Moses Lake and Sunnyside than at Hanford. The variations reveal the elevated levels of natural uranium found on the eastern side of the state. No impact to workers on-site or the public would be expected from these soil concentrations.

- Vegetation and Food

Table A-15 displays the results of the vegetation analysis performed in the remote and local vicinity of Hanford. With the exception of K-40 and Be-7, both naturally occurring, all results were less than the detection limit. The food analysis performed in conjunction with Hanford monitoring display a somewhat different picture and is listed in Table A-5. In Table A-5, food samples from upwind places such as Sunnyside, Prosser, Yakima and Moses Lake contained as much strontium 90 as downwind locations like Sagemoor, Ringold and Horn Rapids Road. The wide dispersion of results implies that the likely source is atmospheric fallout. Compared to atmospheric fallout concentrations of strontium 90, Hanford does not contribute significant quantities to off-site environs. The results observed are far below a concentration expected to pose a health risk.

- Fish and Shellfish

  Table A-4 displays the results of two fish analyses performed in conjunction with the monitoring of the Hanford Site. The analysis shows the two radionuclides greater than the detection limit, K-40 and Cs-137. Table A-4 also shows, two fish analyses results in conjunction with WPPSS monitoring. The four fish analyzed indicate only one positive result for Cs-137. Cesium 137 concentrations can be attributed to atmospheric fallout concentrations.

  Table A-9 displays the results of the shellfish samples analyzed in conjunction with Hanford monitoring. Uranium and K-40 were the two radionuclides observed at greater than detection limits.

Allied Technology Group, Inc. (ATG)

ATG performs equipment decontamination and radioactive waste compaction services for various industries in the country. All operations for ATG during 1991 were based out of the Richland office. Monitoring continued at the Yakima site through the use of TLDs. Tables B-1 and B-2 display the ambient gamma results for the two sites. The highest level recorded by the Department for the Yakima site was 354 mrem for the year. This value is less than the 500 mrem/year exposure limit to the public. A radiation level of 255 mrem/year was the high recorded for the Richland site.

US Ecology

Monitoring at the low-level radioactive waste site is accomplished through the monitoring of ambient radiation, groundwater, vegetation and soil. Two groundwater samples were analyzed in 1991 due to the 1990 samples freezing.

The ambient gamma radiation results for US Ecology are listed in Table A-13. The table compares 1991 results with previous years results. The high for 1991 was 172 mrem at the southwest corner of the site.

Table A-10 shows the soil sample results from the US Ecology site. The results, taken at three different locations, are not elevated or a cause for concern at the site.

Three different methods are currently used to evaluate the movement of radionuclides at the US Ecology site; monitoring of groundwater, the vadose zone and vegetation. Vadose zone monitoring at the site is performed through the collection and condensation of soil vapor. This water vapor, or "solar still" collection method was initiated in order to attempt to verify the elevated tritium in vegetation obtained from various locations at the site. Table A-14 displays the tritium in vadose zone results. The vadose zone results, in comparison with the vegetation analysis in Table A-15, indicate a correlation between the two analyses. Groundwater results, reported in Table A-6, also indicate a minor presence of tritium and uranium. The source of these isotopes is thought to be USDOE operations in the 200 West Area.

Washington Public Power Supply System (WPPSS)

The Washington Public Power Supply System, Plant 2, is located on the Hanford Site in southeast Washington (Figure 1). Plant 2, a 1135 megawatt (electric) nuclear electric generating plant, has operated since January, 1984. The Supply System's Radiological Environmental Monitoring Program (REMP) collects and analyzes samples to determine whether the levels of radioactivity in the surrounding area are within established limits and to assure that there is no significant accumulation of radionuclides in the environment as a result of plant operations.

The Department of Health's environmental radiation program reviews Supply System data and reports. The major objectives of this program are:

- to assess potential and actual doses to critical groups and populations from normal operations and from accidents;
- to verify industry compliance with authorized limits and legal requirements;
- to audit plant systems and, if necessary, to initiate special environmental monitoring studies.

The Department also independently analyzes split or co-located samples collected by the Supply System. The results are used to validate Supply System results and to evaluate trends in environmental

radiation levels. Results of Department sample analysis and split sample analysis are found in Tables B-16 through B-25. Analysis of these results shows that the Supply System meets all applicable federal and state environmental radiation standards.

Results were within expected ranges. Cesium 137 was the predominant radionuclide found. This radionuclide results from worldwide fallout of nuclear weapons tests. These low levels found were consistent with environmental media analyzed from other parts of the state. A review of the Supply System's semi-annual effluent reports show that all doses resulting from gaseous and liquid discharge were far below federal and state standards.

- Department of Health Samples

  Descriptions of the various sampling media are provided below. Samples were analyzed for radionuclides associated with power plant operations. These radionuclides include: chromium 51, manganese 54, cobalt 58 and 60, iron 59, zinc 65, zirconium 95, ruthenium 106, iodine 131, cesium 137 and barium 140. In specific cases where screening results indicate that gross beta activity is greater than 8 pCi/l, strontium 90 analysis is also performed. In no case was an actual or potential health impact indicated.

  - Surface and Discharge Water

    Monthly composite samples of the Columbia River are taken at the Supply System water intake and downstream at the Richland City Water Treatment Plant. A monthly composite of discharge water is also collected. Intake and downstream radionuclide concentrations were below detection levels. Radionuclide concentrations within the discharge line were within the allowed discharge limits.

  - Sediment

    Sediment is annually collected upstream and downstream of the Supply System. One naturally occurring radionuclide, potassium 40, is evident in both sediment samples. Trace levels of cesium 137 and cobalt 60 are likewise found. Cesium is at levels

associated with worldwide fallout from nuclear weapons tests; cobalt may result from past Hanford operations.

- Groundwater

The Department annually splits three groundwater samples with the Supply System. Two locations down-gradient and one location up-gradient are sampled. All radionuclide concentrations were below detection levels.

- Soil

Three soil samples are split annually with WPPSS. Trace levels of cesium 137 and strontium 90 were found in several samples. The Cs-137 and Sr-90 values reflect activity in the soil as a result of worldwide radioactive fallout.

- Air

Continuous air samplers operate at two locations. Filters are exchanged weekly and analyzed. At the end of each calendar quarter, filters for each location are combined and analyzed. The analysis indicates no environmental radiation impact from the plant.

- Ambient Gamma

Ambient gamma radiation is measured with thermoluminescent dosimeters (TLDs). TLDs specifically for monitoring the Supply System are placed at eleven locations arranged in an arc in the predominant downwind areas. Quarterly ambient gamma measurements do not show an impact from plant operations.

- Milk

Milk is sampled quarterly at five dairies and monthly at an additional dairy. Each is a split sample. Potassium 40, a naturally occurring radionuclide, is present in each sample.

- Produce/Vegetation

  Samples of leafy vegetables (cabbage and beet tops) are split with the Supply System twice a year. Only potassium 40 was detected in vegetation. No radionuclides were detected in the leafy vegetables.

- Fish

  Fish are collected twice a year from a location near the plant discharge. Potassium 40 was the only radionuclide detected in the fish samples.

Other Licensees

As part of its radioactive materials licensing program, DOH performs on-site inspections of licensed facilities. During inspections, wipe samples are taken to determine the presence of loose surface radioactive contamination. The presence of loose surface contamination is important because of the potential for contamination to be transferred into the environment. The wipe samples are then sent to the state laboratory and analyzed for beta and gamma contamination. A total of 264 samples were taken during the year and the results indicated no contamination greater than background.

Special Projects, Studies and Investigations

Statewide Program

In addition to environmental sampling and monitoring, the Department performs a number of functions related to protecting public health. Work such as the proper development of air emission standards and soil cleanup standards are a priority due to the wide range of applicability at the different sites located throughout the state. The goal in developing these standards is to ensure the levels set represent a minimum risk based on the most current knowledge of radiation health effects. Other functions/investigations include Hanford Environmental Dose Reconstruction (HEDR) support, Hanford radioactive waste tank investigations, sample intercomparisons, Hanford Tiger Team investigations, uranium mills and licensee follow-up.

Hanford Site Pressurized Ion Chamber Intercomparison

The Environmental Radiation Quality Assurance Task Force of the Pacific Northwest (QATF) sponsored a study to evaluate the performance of pressurized ion chambers (PICs) and handheld survey instruments at measuring ambient gamma radiation. The purpose was to correlate the performance of pressurized ion chambers in measuring and integrating exposure rates in the field. A secondary objective was to compare the performance of the NaI (Tl) detector, plastic scintillator, and PICs. Participants included Battelle's Pacific Northwest Laboratory (PNL), Washington Public Power Supply System (WPPSS), Oregon State Health Department and Washington State Department of Health.

Three locations were chosen to evaluate the instruments. The locations represented background, elevated, and high elevated radiation levels. Overall, the performance of each participants PICs showed good agreement. The pressurized ion chamber and the plastic scintillator displayed the precision expected in field instruments. Sodium iodide detectors, with their characteristic over-response to low energy sources, can effectively be used to locate areas of radioactive contamination.

Results of the Thermoluminescent Dosimeter Intercomparison

An intercomparison study was conducted of six different environmental TLD systems used in the region for environmental monitoring. The purpose of the study was to compare the routine performance of these systems for specific field and laboratory exposures. The intercomparison was structured such that the participants would use their routine laboratory procedures for processing the dosimeters and reporting the results. Dosimeters were exposed to elevated and ambient environmental radiation levels, as well as to typical laboratory exposures of cesium 137 and radium 226. The intercomparison shows that there is a wide range of variability among the results of the TLD systems participating in the study. Factors such as the over-response of the TLD systems to low energy gamma radiation and methods used to calibrate the systems appear to have significant impacts upon the reported results. The six environmental monitoring programs that participated were: U.S. Nuclear Regulatory Commission (NRC), Battelle Pacific Northwest Laboratory, Washington Department of Health, Portland General

Electric Company, Oregon State Health Division, and Washington Public Power Supply System. Each participants used a different TLD system.

Pacific Nuclear Systems

During the course of the Department's annual monitoring program, licensees such as Pacific Nuclear Systems are occasionally selected as a location for further testing and analysis. Pacific Nuclear Systems conducts cleaning and decontamination of equipment and piping for its clients. As a result, the Department collected multiple soil samples throughout their site in order to determine if any potential contamination problem exists. The results of those soil analysis are listed in Table A-10. The analyses reveals that, although several cobalt and cesium results are greater than detection limits, they do not pose a health problem.

EMERGENCY PREPAREDNESS

The Department is the lead response agency for emergencies involving the potential or actual release of radioactive materials. In 1974, Washington became the first state in the nation to receive NRC "concurrence" for its emergency response plan developed for the Trojan Nuclear Power Plant, which began operating in December 1975. An expanded plan received formal federal approval in 1982 subsequent to a full-scale Trojan exercise, a public hearing and a favorable review by the Federal Emergency Management Agency (FEMA). Such formal review is not mandatory for subsequent revisions or additions to the plan unless the proposed modification could constitute a degradation of the state's response capability. The plan and its accompanying procedures are, however, under continual internal review and comments received from outside agencies are considered when preparing revisions or additions.

Overall state level emergency response is described in the *Washington State Fixed Nuclear Facility Emergency Response Plan* (Reference 6), which is developed and maintained by the Department of Community Development, Division of Emergency Management. In addition to generic guidelines for responding to any major radiological emergency, the *Response Procedures for Radiological Emergencies* (Reference 7) contain segments addressing response to several specific types of accidents. There are sections which provide information needed for response to licensee and transportation accidents. Other sections contain background information and response guidance for accidents at fixed nuclear facilities.

Primary tasks of the Department in response to a radiological emergency are to locate, identify and predict the impact of any radioactive materials released to the environment. Based on the predicted or known impact, the Department then recommends appropriate measures to protect the public. The Department also supervises cleanup and ensures proper disposal of radioactive waste. A duty officer maintains 24-hour coverage for the radiation emergency number 1-206-NUCLEAR (682-5327).

Under the provisions of current federal guidance, the Department conducts or participates in periodic drills that are designed to provide team training and to test emergency plans and procedures. The scope of these drills ranges from receiving and acknowledging simulated emergency communications to full-scale team deployment. In the latter case, staff are presented with problems similar to those that might be encountered during an actual emergency.

Full-scale exercises differ from drills in that team members must demonstrate their knowledge of response functions without benefit of any assistance from exercise controllers. Federal regulations for commercial nuclear power generating facilities stipulate that a full-scale exercise involving appropriate local government participation and testing all significant response elements must be conducted and evaluated every other year. Because there are two such facilities which impact this state, Washington State agencies have the option of exercising at one or the other location every two years. In fact, due to the inherent training opportunities, the Department has elected to participate in each exercise as fully as budget constraints and local response organizations' participation permit.

Since the full-time activities of emergency preparedness began in 1978, the Department has successfully participated in full-scale nuclear facility exercises at both Trojan Nuclear Power Plant and WNP-2 (Hanford). The Department also participated in Sagebrush I through IV, joint federal/state exercises, which were located at various sites in western and eastern Washington.

REFERENCES

1. State of Washington, Revised Code of Washington, RCW 6.70.98, "Nuclear Energy and Radiation", Olympia, Washington, 1989.

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3. State of Washington, Revised Code of Washington RCW 70.121, "Mill Tailings - Licensing and Perpetual Care", Olympia, Washington, 1989.

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6. Department of Community Development, "Fixed Nuclear Facility Emergency Response Plan, Vol. 1, Rev. 6", Department of Community Development, Olympia, Washington, January 1988.

7. Nuclear Safety Section, "Response Procedures for Radiation Emergencies, Rev. 11", Division of Radiation Protection, Department of Health, Olympia, Washington, February 1989.

8. Washington Public Power Supply System, "1991 Annual Report for Nuclear Plant 2", Washington Public Power Supply System, Radiological Environmental Monitoring Program, Richland, Washington, April 1992.

9. Portland General Electric Company, "1991 Annual Report" Portland General Electric Company Operational Environmental Radiological Surveillance Program (Trojan Nuclear Power Plant), Portland, Oregon, May 1992.

10. U.S. Department of Energy, Battelle Memorial Institute. Pacific Northwest Laboratories, "Hanford Site Environmental Report for Calendar Year 1990", PNL--7930, National Technical Information Service, Springfield. Virginia, March 1992.

12. US Ecology, "Low Level Radioactive Waste Disposal Facility", 1991 Annual Environmental Monitoring Report. US Ecology, Richland, Washington. June 21, 1992.

13. Environmental Monitoring Program. "1991 Annual Report", Dawn Mining Company. Ford. Washington. 1991.

14. Western Nuclear, Inc., "Annual Environmental Monitoring Program Report", Wellpinit. Washington. January-December 1991.

15. U.S. Environmental Protection Agency, "Environmental Radiation Data Reports 61-64, Eastern Environmental Radiation Facility. Montgomery, Alabama. January-December 1991.

16. ATG Richland Corporation. "1991 Environmental Report". Allied Technology Group. Inc., Richland. Washington. May 1992.

ENVIRONMENTAL RADIATION DATA TABLES

Useful Information for Data Interpretation

The list for the data tables is located in the index. The tables are arranged in three separate appendices. Appendix A includes those results sampled solely by the Department of Health. Appendix B results include those samples split by both the Department of Health and another organization or company. Appendix C results include those supplied by the EPA.

Throughout the Appendices, areas and sites descriptions are usually abbreviated for space considerations. The description for these acronyms are located in the index. Maps showing the relative locations of the areas sampled can be found in Appendix E.

Table 5 of the text includes both the radionuclide nomenclature and the half-life for the radionuclide of interest.

Radium and uranium can be analyzed by two methods; either by chemically preparing the sample and directly analyzing the radionuclide of interest by alpha spectroscopy; or by determining the radionuclide concentration through gamma spectroscopy analysis of the daughter products.

Descriptions for laboratory analysis can be found in Appendix G.

APPENDIX A

DEPARTMENT OF HEALTH

DATA TABLES

TABLE A-1

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	200GTE	03/11/91	Gross Beta		6.80E-03	1.00E-03	1.00E-03
HANFORD	200GTE	03/18/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	200GTE	03/25/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	04/02/91	Gross Beta		1.60E-02	1.00E-03	1.00E-03
HANFORD	200GTE	04/08/91	Gross Beta		8.00E-03	3.00E-03	1.00E-03
HANFORD	200GTE	04/15/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	200GTE	04/19/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
HANFORD	200GTE	04/29/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	200GTE	05/06/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	200GTE	05/13/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	05/20/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	200GTE	05/24/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	200GTE	06/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	06/10/91	Gross Beta		9.00E-03	2.00E-03	1.00E-03
HANFORD	200GTE	06/10/91	I-131	<	4.00E-03	1.20E-02	3.00E-02
HANFORD	200GTE	06/17/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	06/17/91	I-131	<	-3.10E-03	8.50E-03	3.00E-02
HANFORD	200GTE	06/24/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	06/24/91	I-131	<	6.10E-03	8.50E-03	3.00E-02
HANFORD	200GTE	06/28/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	200GTE	06/28/91	I-131	<	1.00E-02	1.50E-02	3.00E-02
HANFORD	200GTE	07/08/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	07/08/91	I-131	<	5.00E-04	3.90E-03	3.00E-02
HANFORD	200GTE	07/15/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	200GTE	07/15/91	I-131	<	-2.00E-04	8.70E-03	3.00E-02
HANFORD	200GTE	07/19/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	200GTE	07/19/91	I-131	<	-8.00E-03	2.20E-02	3.00E-02
HANFORD	200GTE	07/26/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	200GTE	07/26/91	I-131	<	4.20E-03	9.90E-03	3.00E-02
HANFORD	200GTE	08/05/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	200GTE	08/05/91	I-131	<	-2.00E-04	6.60E-03	3.00E-02
HANFORD	200GTE	08/13/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	200GTE	08/13/91	I-131	<	2.80E-03	7.30E-03	3.00E-02
HANFORD	200GTE	08/15/91	Be-7		1.11E-01	5.70E-02	3.00E-02
HANFORD	200GTE	08/15/91	Cs-134	<	3.28E-04	6.41E-04	4.00E-03
HANFORD	200GTE	08/15/91	Cs-137	<	7.20E-05	5.53E-04	3.00E-03
HANFORD	200GTE	08/20/91	Gross Beta	<	1.80E-03	2.00E-03	1.00E-03
HANFORD	200GTE	08/20/91	I-131	<	-1.00E-03	1.30E-02	3.00E-02
HANFORD	200GTE	08/26/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	200GTE	08/26/91	I-131	<	4.00E-03	1.00E-02	3.00E-02
HANFORD	200GTE	09/03/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	09/03/91	I-131	<	-4.00E-04	7.20E-03	3.00E-02
HANFORD	200GTE	09/09/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	09/09/91	I-131	<	5.00E-03	1.00E-02	3.00E-02
HANFORD	200GTE	09/13/91	Gross Beta		1.80E-02	2.00E-03	1.00E-03
HANFORD	200GTE	09/13/91	I-131	<	-4.40E-02	4.90E-02	3.00E-02
HANFORD	200GTE	09/23/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	200GTE	09/23/91	I-131	<	6.80E-03	8.60E-03	3.00E-02
HANFORD	200GTE	10/01/91	Gross Beta		1.80E-02	2.00E-03	1.00E-03
HANFORD	200GTE	10/01/91	I-131	<	-6.80E-03	8.00E-03	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	200GTE	10/07/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	200GTE	10/07/91	I-131	<	0.00E+00	1.00E-02	3.00E-02
HANFORD	200GTE	10/14/91	Gross Beta		3.70E-02	2.00E-03	1.00E-03
HANFORD	200GTE	10/14/91	I-131	<	8.40E-03	9.50E-03	3.00E-02
HANFORD	200GTE	10/21/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	200GTE	10/21/91	I-131	<	-6.90E-03	9.60E-03	3.00E-02
HANFORD	200GTE	10/28/91	Gross Beta	<	1.00E-02	1.00E-02	1.00E-03
HANFORD	200GTE	10/28/91	I-131	<	1.80E-03	8.70E-03	3.00E-02
HANFORD	200GTE	11/04/91	Gross Beta		4.30E-02	2.00E-03	1.00E-03
HANFORD	200GTE	11/04/91	I-131	<	-3.64E-03	9.86E-03	3.00E-02
HANFORD	200GTE	11/12/91	Gross Beta		3.40E-02	2.00E-03	1.00E-03
HANFORD	200GTE	11/12/91	I-131	<	2.06E-03	7.00E-03	3.00E-02
HANFORD	200GTE	11/15/91	Be-7		1.02E-01	1.70E-02	3.00E-02
HANFORD	200GTE	11/15/91	Cs-134	<	-1.54E-04	3.98E-04	4.00E-03
HANFORD	200GTE	11/15/91	Cs-137	<	3.23E-04	4.05E-04	3.00E-03
HANFORD	200GTE	11/15/91	K-40	<	1.01E-02	7.30E-03	1.70E-01
HANFORD	200GTE	11/18/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	11/18/91	I-131	<	-5.00E-04	1.15E-02	3.00E-02
HANFORD	200GTE	11/25/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	200GTE	11/25/91	I-131	<	-6.00E-03	1.25E-02	3.00E-02
HANFORD	200GTE	12/02/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	200GTE	12/02/91	I-131	<	-2.89E-03	9.03E-03	3.00E-02
HANFORD	200GTE	12/09/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	200GTE	12/09/91	I-131	<	8.17E-03	8.73E-03	3.00E-02
HANFORD	200GTE	12/16/91	Gross Beta		1.70E-03	2.00E-04	1.00E-03
HANFORD	200GTE	12/16/91	I-131	<	-1.06E-03	9.09E-03	3.00E-02
HANFORD	200GTE	12/23/91	Gross Beta		3.50E-02	2.00E-03	1.00E-03
HANFORD	200GTE	12/23/91	I-131	<	-7.10E-03	1.04E-02	3.00E-02
HANFORD	200GTE	12/30/91	Gross Beta		5.70E-02	3.00E-03	1.00E-03
HANFORD	200GTE	12/30/91	I-131	<	-1.38E-03	8.56E-03	3.00E-02
HANFORD	HANFORD TOWN	03/11/91	Gross Beta		6.30E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	03/18/91	Gross Beta		1.60E-02	7.00E-03	1.00E-03
HANFORD	HANFORD TOWN	03/25/91	Gross Beta		1.90E-02	4.00E-03	1.00E-03
HANFORD	HANFORD TOWN	04/02/91	Gross Beta		1.80E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	04/08/91	Gross Beta		9.00E-03	3.00E-03	1.00E-03
HANFORD	HANFORD TOWN	04/15/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	04/19/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	04/29/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	05/06/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	05/13/91	Gross Beta		1.80E-02	4.00E-03	1.00E-03
HANFORD	HANFORD TOWN	05/20/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	05/24/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/10/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/10/91	I-131	<	7.10E-03	8.40E-03	3.00E-02
HANFORD	HANFORD TOWN	06/17/91	Gross Beta		5.00E-03	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/17/91	I-131	<	-2.00E-03	1.60E-02	3.00E-02
HANFORD	HANFORD TOWN	06/24/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/24/91	I-131	<	1.90E-03	8.70E-03	3.00E-02
HANFORD	HANFORD TOWN	06/28/91	Gross Beta		1.10E-02	3.00E-03	1.00E-03
HANFORD	HANFORD TOWN	06/28/91	I-131	<	-9.00E-03	2.60E-02	3.00E-02
HANFORD	HANFORD TOWN	07/08/91	Gross Beta		3.30E-02	1.30E-02	1.00E-03
HANFORD	HANFORD TOWN	07/08/91	I-131	<	8.00E-02	1.00E-01	3.00E-02
HANFORD	HANFORD TOWN	07/15/91	Gross Beta		1.50E-02	4.00E-03	1.00E-03
HANFORD	HANFORD TOWN	07/15/91	I-131	<	2.80E-02	3.20E-02	3.00E-02
HANFORD	HANFORD TOWN	07/19/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	07/19/91	I-131	<	2.00E-03	1.90E-02	3.00E-02
HANFORD	HANFORD TOWN	07/26/91	Gross Beta		2.30E-02	6.00E-03	1.00E-03
HANFORD	HANFORD TOWN	07/26/91	I-131	<	4.80E-02	5.50E-02	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	HANFORD TOWN	08/05/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	08/05/91	I-131	<	2.00E-03	1.20E-02	3.00E-02
HANFORD	HANFORD TOWN	08/15/91	Be-7		7.87E-02	3.76E-02	3.00E-02
HANFORD	HANFORD TOWN	08/15/91	Cs-134	<	-2.75E-04	5.00E-04	4.00E-03
HANFORD	HANFORD TOWN	08/15/91	Cs-137	<	2.00E-05	4.65E-04	3.00E-03
HANFORD	HANFORD TOWN	08/15/91	K-40	<	1.07E-02	9.60E-03	1.70E-01
HANFORD	HANFORD TOWN	08/20/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	08/20/91	I-131	<	2.00E-03	1.40E-02	3.00E-02
HANFORD	HANFORD TOWN	08/26/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	08/26/91	I-131	<	1.00E-03	1.00E-02	3.00E-02
HANFORD	HANFORD TOWN	09/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	09/03/91	I-131	<	6.10E-03	6.70E-03	3.00E-02
HANFORD	HANFORD TOWN	09/09/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	09/09/91	I-131	<	-2.00E-03	1.10E-02	3.00E-02
HANFORD	HANFORD TOWN	09/13/91	Gross Beta		1.20E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	09/13/91	I-131	<	1.00E-03	1.70E-02	3.00E-02
HANFORD	HANFORD TOWN	09/24/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	09/24/91	I-131	<	-9.00E-04	6.90E-03	3.00E-02
HANFORD	HANFORD TOWN	10/01/91	Gross Beta		1.90E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	10/01/91	I-131	<	3.00E-04	8.00E-03	3.00E-02
HANFORD	HANFORD TOWN	10/07/91	Gross Beta		1.90E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	10/07/91	I-131	<	-7.00E-03	1.50E-02	3.00E-02
HANFORD	HANFORD TOWN	10/14/91	Gross Beta		3.90E-02	5.00E-03	1.00E-03
HANFORD	HANFORD TOWN	10/14/91	I-131	<	-5.00E-03	3.40E-02	3.00E-02
HANFORD	HANFORD TOWN	10/21/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	10/21/91	I-131	<	6.00E-03	1.00E-02	3.00E-02
HANFORD	HANFORD TOWN	10/28/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	10/28/91	I-131	<	-3.90E-03	9.50E-03	3.00E-02
HANFORD	HANFORD TOWN	11/04/91	Gross Beta		3.50E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	11/04/91	I-131	<	5.07E-03	6.29E-03	3.00E-02
HANFORD	HANFORD TOWN	11/12/91	Gross Beta		2.60E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	11/12/91	I-131	<	-1.48E-03	7.56E-03	3.00E-02
HANFORD	HANFORD TOWN	11/15/91	Be-7		8.44E-02	2.26E-02	3.00E-02
HANFORD	HANFORD TOWN	11/15/91	Cs-134	<	2.30E-05	4.74E-04	4.00E-03
HANFORD	HANFORD TOWN	11/15/91	Cs-137	<	-1.81E-04	4.37E-04	3.00E-03
HANFORD	HANFORD TOWN	11/15/91	K-40	<	1.32E-02	8.90E-03	1.70E-01
HANFORD	HANFORD TOWN	11/18/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	11/18/91	I-131	<	4.05E-03	9.69E-03	3.00E-02
HANFORD	HANFORD TOWN	11/25/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	11/25/91	I-131	<	3.20E-03	1.51E-02	3.00E-02
HANFORD	HANFORD TOWN	12/02/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	12/02/91	I-131	<	-1.32E-03	9.29E-03	3.00E-02
HANFORD	HANFORD TOWN	12/09/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	12/09/91	I-131	<	7.80E-03	8.71E-03	3.00E-02
HANFORD	HANFORD TOWN	12/16/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	HANFORD TOWN	12/16/91	I-131	<	2.61E-03	9.50E-03	3.00E-02
HANFORD	HANFORD TOWN	12/23/91	Gross Beta		4.20E-02	2.00E-03	1.00E-03
HANFORD	HANFORD TOWN	12/23/91	I-131	<	-1.21E-03	8.54E-03	3.00E-02
HANFORD	HANFORD TOWN	12/30/91	Gross Beta		5.70E-02	3.00E-03	1.00E-03
HANFORD	HANFORD TOWN	12/30/91	I-131	<	-1.78E-03	8.53E-03	3.00E-02
HANFORD	WYE B.	01/02/91	Gross Beta		2.60E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	01/07/91	Gross Beta		3.50E-02	3.00E-03	1.00E-03
HANFORD	WYE B.	01/14/91	Gross Beta		7.00E-02	3.00E-03	1.00E-03
HANFORD	WYE B.	01/22/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	01/28/91	Gross Beta		3.60E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	02/04/91	Gross Beta		2.20E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	02/11/91	Gross Beta		2.60E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	02/19/91	Gross Beta		1.50E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	02/25/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	WYE B.	03/04/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	03/11/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	03/18/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	03/25/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	04/02/91	Gross Beta		1.60E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	04/08/91	Gross Beta		9.00E-03	3.00E-03	1.00E-03
HANFORD	WYE B.	04/15/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	04/19/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	04/29/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	05/06/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	05/13/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	05/15/91	Be-7		7.10E-02	1.30E-02	3.00E-02
HANFORD	WYE B.	05/15/91	Cs-134	<	1.10E-04	3.20E-04	4.00E-03
HANFORD	WYE B.	05/15/91	Cs-137	<	2.70E-04	3.20E-04	3.00E-03
HANFORD	WYE B.	05/15/91	K-40	<	7.90E-03	7.50E-03	1.70E-01
HANFORD	WYE B.	05/15/91	Ru-106	<	-6.00E-04	3.30E-03	3.00E-02
HANFORD	WYE B.	05/20/91	Gross Beta		1.00E+00	1.00E-03	1.00E-03
HANFORD	WYE B.	05/24/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	06/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	06/10/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	06/10/91	I-131	<	3.70E-03	9.60E-03	3.00E-02
HANFORD	WYE B.	06/17/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	06/17/91	I-131	<	-6.60E-03	9.60E-03	3.00E-02
HANFORD	WYE B.	06/24/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	06/24/91	I-131	<	1.10E-03	8.80E-03	3.00E-02
HANFORD	WYE B.	06/28/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	06/28/91	I-131	<	8.00E-03	1.70E-02	3.00E-02
HANFORD	WYE B.	07/08/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	07/08/91	I-131	<	5.00E-04	5.50E-03	3.00E-02
HANFORD	WYE B.	07/15/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	07/15/91	I-131	<	4.10E-03	8.70E-03	3.00E-02
HANFORD	WYE B.	07/19/91	Gross Beta		1.00E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	07/19/91	I-131	<	1.00E-02	1.90E-02	3.00E-02
HANFORD	WYE B.	07/26/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	07/26/91	I-131	<	2.00E-03	1.10E-02	3.00E-02
HANFORD	WYE B.	08/05/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	08/05/91	I-131	<	-5.40E-03	6.60E-03	3.00E-02
HANFORD	WYE B.	08/13/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	08/13/91	I-131	<	4.30E-03	7.30E-03	3.00E-02
HANFORD	WYE B.	08/15/91	Be-7		1.26E-01	5.10E-02	3.00E-02
HANFORD	WYE B.	08/15/91	Cs-134	<	-3.67E-04	4.46E-04	4.00E-03
HANFORD	WYE B.	08/15/91	Cs-137	<	2.21E-04	3.53E-04	3.00E-03
HANFORD	WYE B.	08/20/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	08/20/91	I-131	<	6.00E-03	1.50E-02	3.00E-02
HANFORD	WYE B.	08/26/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	08/26/91	I-131	<	-3.00E-03	1.10E-02	3.00E-02
HANFORD	WYE B.	09/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	09/03/91	I-131	<	-4.40E-03	7.30E-03	3.00E-02
HANFORD	WYE B.	09/09/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	09/09/91	I-131	<	4.00E-03	1.00E-02	3.00E-02
HANFORD	WYE B.	09/13/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	09/13/91	I-131	<	-1.00E-03	1.70E-02	3.00E-02
HANFORD	WYE B.	09/23/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	09/23/91	I-131	<	3.00E-03	7.10E-03	3.00E-02
HANFORD	WYE B.	10/01/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	10/01/91	I-131	<	2.20E-03	7.30E-03	3.00E-02
HANFORD	WYE B.	10/07/91	Gross Beta		1.90E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	10/07/91	I-131	<	2.00E-03	1.00E-02	3.00E-02
HANFORD	WYE B.	10/14/91	Gross Beta		3.40E-02	2.00E-03	1.00E-03

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	WYE B.	10/14/91	I-131	<	-4.30E-03	8.70E-03	3.00E-02
HANFORD	WYE B.	10/21/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	WYE B.	10/21/91	I-131	<	-3.60E-03	9.40E-03	3.00E-02
HANFORD	WYE B.	10/28/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	10/28/91	I-131	<	1.20E-02	8.00E-03	3.00E-02
HANFORD	WYE B.	11/04/91	Gross Beta		3.90E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	11/04/91	I-131	<	4.22E-03	9.76E-03	3.00E-02
HANFORD	WYE B.	11/12/91	Gross Beta		2.80E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	11/12/91	I-131	<	-4.71E-03	7.08E-03	3.00E-02
HANFORD	WYE B.	11/15/91	Be-7		7.08E-02	1.67E-02	3.00E-02
HANFORD	WYE B.	11/15/91	Cs-134	<	-2.03E-04	3.27E-04	4.00E-03
HANFORD	WYE B.	11/15/91	Cs-137	<	1.71E-04	3.60E-04	3.00E-03
HANFORD	WYE B.	11/18/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	11/18/91	I-131	<	3.68E-03	9.76E-03	3.00E-02
HANFORD	WYE B.	11/25/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	11/25/91	I-131	<	-1.04E-02	1.22E-02	3.00E-02
HANFORD	WYE B.	12/02/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	12/02/91	I-131	<	4.65E-03	8.42E-03	3.00E-02
HANFORD	WYE B.	12/09/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
HANFORD	WYE B.	12/09/91	I-131	<	-9.50E-04	8.90E-03	3.00E-02
HANFORD	WYE B.	12/16/91	Gross Beta		1.30E-03	1.00E-04	1.00E-03
HANFORD	WYE B.	12/16/91	I-131	<	-3.54E-03	9.00E-03	3.00E-02
HANFORD	WYE B.	12/23/91	Gross Beta		4.30E-02	2.00E-03	1.00E-03
HANFORD	WYE B.	12/23/91	I-131	<	-1.81E-03	9.05E-03	3.00E-02
HANFORD	WYE B.	12/30/91	Gross Beta		6.20E-02	3.00E-03	1.00E-03
HANFORD	WYE B.	12/30/91	I-131	<	-1.58E-03	8.34E-03	3.00E-02
HANFORD	YAKIMA B.	01/02/91	Gross Beta		2.70E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	01/07/91	Gross Beta		3.90E-02	3.00E-03	1.00E-03
HANFORD	YAKIMA B.	01/14/91	Gross Beta		7.00E-02	3.00E-03	1.00E-03
HANFORD	YAKIMA B.	01/22/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	01/28/91	Gross Beta		3.30E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	02/04/91	Gross Beta		2.40E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	02/11/91	Gross Beta		2.80E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	02/19/91	Gross Beta		1.50E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	02/25/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	03/04/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	03/11/91	Gross Beta		7.10E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	03/18/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	03/25/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	04/02/91	Gross Beta		1.70E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	04/08/91	Gross Beta		8.00E-03	3.00E-03	1.00E-03
HANFORD	YAKIMA B.	04/15/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	04/19/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	04/29/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	05/06/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	05/13/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	05/20/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	05/24/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/10/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/10/91	I-131	<	2.60E-03	9.70E-03	3.00E-02
HANFORD	YAKIMA B.	06/17/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/17/91	I-131	<	-4.40E-03	8.50E-03	3.00E-02
HANFORD	YAKIMA B.	06/24/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/24/91	I-131	<	1.90E-03	8.00E-03	3.00E-02
HANFORD	YAKIMA B.	06/28/91	Gross Beta		1.20E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	06/28/91	I-131	<	-6.00E-03	1.80E-02	3.00E-02
HANFORD	YAKIMA B.	07/08/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	07/08/91	I-131	<	-2.20E-03	6.90E-03	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	YAKIMA B.	07/15/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	07/15/91	I-131	<	5.00E-04	8.40E-03	3.00E-02
HANFORD	YAKIMA B.	07/19/91	Gross Beta		1.00E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	07/19/91	I-131	<	1.00E-03	1.90E-02	3.00E-02
HANFORD	YAKIMA B.	07/26/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	07/26/91	I-131	<	1.00E-03	1.20E-02	3.00E-02
HANFORD	YAKIMA B.	08/05/91	Gross Beta		4.90E-02	7.00E-03	1.00E-03
HANFORD	YAKIMA B.	08/05/91	I-131	<	-5.20E-02	5.90E-02	3.00E-02
HANFORD	YAKIMA B.	08/12/91	Gross Beta		1.00E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	08/12/91	I-131	<	-4.00E-03	1.10E-02	3.00E-02
HANFORD	YAKIMA B.	08/15/91	Be-7		8.56E-02	3.98E-02	3.00E-02
HANFORD	YAKIMA B.	08/15/91	Cs-134	<	-1.55E-04	4.33E-04	4.00E-03
HANFORD	YAKIMA B.	08/15/91	Cs-137	<	-1.80E-05	4.28E-04	3.00E-03
HANFORD	YAKIMA B.	08/15/91	K-40	<	1.36E-02	8.30E-03	1.70E-01
HANFORD	YAKIMA B.	08/20/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	08/20/91	I-131	<	7.00E-03	1.40E-02	3.00E-02
HANFORD	YAKIMA B.	08/26/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	08/26/91	I-131	<	1.00E-03	1.00E-02	3.00E-02
HANFORD	YAKIMA B.	09/03/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	09/03/91	I-131	<	5.00E-03	7.40E-03	3.00E-02
HANFORD	YAKIMA B.	09/09/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	09/09/91	I-131	<	7.00E-03	1.20E-02	3.00E-02
HANFORD	YAKIMA B.	09/13/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	09/13/91	I-131	<	-9.00E-03	1.90E-02	3.00E-02
HANFORD	YAKIMA B.	09/23/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	09/23/91	I-131	<	3.00E-03	8.10E-03	3.00E-02
HANFORD	YAKIMA B.	10/01/91	Gross Beta		4.30E-02	4.00E-03	1.00E-03
HANFORD	YAKIMA B.	10/01/91	I-131	<	9.00E-03	1.90E-02	3.00E-02
HANFORD	YAKIMA B.	10/07/91	Gross Beta		2.20E-03	2.00E-04	1.00E-03
HANFORD	YAKIMA B.	10/07/91	I-131	<	-3.00E-03	1.00E-02	3.00E-02
HANFORD	YAKIMA B.	10/14/91	Gross Beta		3.80E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	10/14/91	I-131	<	-5.00E-03	9.70E-03	3.00E-02
HANFORD	YAKIMA B.	10/21/91	Gross Beta		3.60E-02	5.00E-03	1.00E-03
HANFORD	YAKIMA B.	10/21/91	I-131	<	-1.60E-02	3.70E-02	3.00E-02
HANFORD	YAKIMA B.	10/28/91	Gross Beta		1.80E-02	3.00E-03	1.00E-03
HANFORD	YAKIMA B.	10/28/91	I-131	<	-1.00E-03	1.90E-02	3.00E-02
HANFORD	YAKIMA B.	11/04/91	Gross Beta		5.30E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	11/04/91	I-131	<	-5.11E-03	8.07E-03	3.00E-02
HANFORD	YAKIMA B.	11/12/91	Gross Beta		3.50E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	11/12/91	I-131	<	4.10E-03	7.44E-03	3.00E-02
HANFORD	YAKIMA B.	11/15/91	Be-7		1.07E-01	1.80E-02	3.00E-02
HANFORD	YAKIMA B.	11/15/91	Cs-134	<	-7.40E-05	3.81E-04	4.00E-03
HANFORD	YAKIMA B.	11/15/91	Cs-137	<	4.28E-04	3.98E-04	3.00E-03
HANFORD	YAKIMA B.	11/15/91	K-40	<	1.38E-02	6.80E-03	1.70E-01
HANFORD	YAKIMA B.	11/18/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	11/18/91	I-131	<	-7.10E-03	1.02E-02	3.00E-02
HANFORD	YAKIMA B.	11/25/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	11/25/91	I-131	<	-6.60E-03	1.28E-02	3.00E-02
HANFORD	YAKIMA B.	12/02/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	12/02/91	I-131	<	-2.92E-03	8.25E-03	3.00E-02
HANFORD	YAKIMA B.	12/09/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	12/09/91	I-131	<	3.98E-03	8.52E-03	3.00E-02
HANFORD	YAKIMA B.	12/16/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
HANFORD	YAKIMA B.	12/16/91	I-131	<	-7.50E-03	8.81E-03	3.00E-02
HANFORD	YAKIMA B.	12/23/91	Gross Beta		4.70E-02	2.00E-03	1.00E-03
HANFORD	YAKIMA B.	12/23/91	I-131	<	-1.41E-02	9.30E-03	3.00E-02
HANFORD	YAKIMA B.	12/30/91	Gross Beta		8.00E-02	3.00E-03	1.00E-03
HANFORD	YAKIMA B.	12/30/91	I-131	<	-1.25E+03	9.43E-03	3.00E-02
OLYMPIA	STATION 1	01/07/91	Be-7		1.00E-01	2.00E-02	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
OLYMPIA	STATION 1	01/07/91	Cs-137	<	1.00E-03	2.50E-03	3.00E-03
OLYMPIA	STATION 1	01/07/91	Gross Beta		1.80E-02	2.00E-03	1.00E-03
OLYMPIA	STATION 1	01/14/91	Be-7	<	3.00E-02	1.50E-02	3.00E-02
OLYMPIA	STATION 1	01/14/91	Cs-137	<	-1.10E-03	1.40E-03	3.00E-03
OLYMPIA	STATION 1	01/14/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	01/14/91	K-40	<	3.00E-02	3.00E-02	1.70E-01
OLYMPIA	STATION 1	01/22/91	Be-7		5.40E-02	2.30E-02	3.00E-02
OLYMPIA	STATION 1	01/22/91	Cs-137	<	6.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	01/22/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	01/22/91	K-40	<	8.20E-02	4.30E-02	1.70E-01
OLYMPIA	STATION 1	01/28/91	Be-7		9.00E-02	4.00E-02	3.00E-02
OLYMPIA	STATION 1	01/28/91	Cs-137	<	-2.00E-03	3.00E-03	3.00E-03
OLYMPIA	STATION 1	01/28/91	Gross Beta		2.00E-02	2.00E-03	1.00E-03
OLYMPIA	STATION 1	02/19/91	Be-7		6.00E-02	2.40E-02	3.00E-02
OLYMPIA	STATION 1	02/19/91	Cs-137	<	-6.00E-04	1.90E-03	3.00E-03
OLYMPIA	STATION 1	02/19/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	02/25/91	Be-7		7.40E-02	3.20E-02	3.00E-02
OLYMPIA	STATION 1	02/25/91	Cs-137	<	2.00E-03	2.00E-03	3.00E-03
OLYMPIA	STATION 1	02/25/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	02/25/91	K-40	<	8.60E-02	6.30E-02	1.70E-01
OLYMPIA	STATION 1	03/04/91	Be-7		6.40E-02	2.80E-02	3.00E-02
OLYMPIA	STATION 1	03/04/91	Cs-137	<	-2.20E-03	1.80E-03	3.00E-03
OLYMPIA	STATION 1	03/04/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	03/04/91	K-40	<	4.90E-02	4.30E-02	1.70E-01
OLYMPIA	STATION 1	03/11/91	Be-7		6.10E-02	2.60E-02	3.00E-02
OLYMPIA	STATION 1	03/11/91	Cs-137	<	-1.80E-03	1.90E-03	3.00E-03
OLYMPIA	STATION 1	03/11/91	Gross Beta		4.80E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	03/18/91	Be-7		6.50E-02	2.40E-02	3.00E-02
OLYMPIA	STATION 1	03/18/91	Cs-137	<	1.00E-04	2.00E-03	3.00E-03
OLYMPIA	STATION 1	03/18/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	03/25/91	Be-7		4.30E-02	2.00E-02	3.00E-02
OLYMPIA	STATION 1	03/25/91	Cs-137	<	-9.00E-04	1.90E-03	3.00E-03
OLYMPIA	STATION 1	03/25/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	04/01/91	Be-7		1.00E-01	2.00E-02	3.00E-02
OLYMPIA	STATION 1	04/01/91	Cs-137	<	2.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	04/01/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	04/01/91	K-40	<	8.80E-02	4.10E-02	1.70E-01
OLYMPIA	STATION 1	04/08/91	Be-7		4.40E-02	3.80E-02	3.00E-02
OLYMPIA	STATION 1	04/08/91	Cs-137	<	-4.00E-04	2.00E-03	3.00E-03
OLYMPIA	STATION 1	04/08/91	Gross Beta		3.00E-03	2.00E-03	1.00E-03
OLYMPIA	STATION 1	04/15/91	Be-7		6.00E-02	2.00E-02	3.00E-02
OLYMPIA	STATION 1	04/15/91	Cs-137	<	1.00E-03	1.30E-03	3.00E-03
OLYMPIA	STATION 1	04/15/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	04/22/91	Be-7		6.30E-02	2.60E-02	3.00E-02
OLYMPIA	STATION 1	04/22/91	Cs-137	<	1.20E-03	2.10E-03	3.00E-03
OLYMPIA	STATION 1	04/22/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	04/22/91	K-40	<	7.50E-02	4.70E-02	1.70E-01
OLYMPIA	STATION 1	04/29/91	Be-7	<	3.00E-02	2.00E-02	3.00E-02
OLYMPIA	STATION 1	04/29/91	Cs-137	<	-3.00E-04	2.20E-03	3.00E-03
OLYMPIA	STATION 1	04/29/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	04/29/91	K-40	<	7.00E-02	5.00E-02	1.70E-01
OLYMPIA	STATION 1	05/06/91	Be-7		1.20E-01	4.00E-02	3.00E-02
OLYMPIA	STATION 1	05/06/91	Cs-137	<	3.00E-04	1.90E-03	3.00E-03
OLYMPIA	STATION 1	05/06/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	05/06/91	K-40	<	7.30E-02	4.70E-02	1.70E-01
OLYMPIA	STATION 1	05/13/91	Be-7		4.90E-02	2.70E-02	3.00E-02
OLYMPIA	STATION 1	05/13/91	Cs-137	<	2.20E-03	1.80E-03	3.00E-03
OLYMPIA	STATION 1	05/13/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	05/20/91	Be-7		7.20E-02	3.40E-02	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
OLYMPIA	STATION 1	05/20/91	Cs-137	<	2.00E-04	2.10E-03	3.00E-03
OLYMPIA	STATION 1	05/20/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	05/20/91	K-40	<	7.00E-02	4.60E-02	1.70E-01
OLYMPIA	STATION 1	05/28/91	Be-7		3.60E-02	1.90E-02	3.00E-02
OLYMPIA	STATION 1	05/28/91	Cs-137	<	-6.00E-04	1.60E-03	3.00E-03
OLYMPIA	STATION 1	05/28/91	Gross Beta		3.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	05/28/91	K-40	<	5.90E-02	3.80E-02	1.70E-01
OLYMPIA	STATION 1	06/03/91	Be-7		4.70E-02	2.20E-02	3.00E-02
OLYMPIA	STATION 1	06/03/91	Cs-137	<	-7.00E-04	2.50E-03	3.00E-03
OLYMPIA	STATION 1	06/03/91	Gross Beta		2.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	06/03/91	K-40	<	1.43E-01	6.00E-02	1.70E-01
OLYMPIA	STATION 1	06/11/91	Be-7		6.50E-02	2.30E-02	3.00E-02
OLYMPIA	STATION 1	06/11/91	Cs-137	<	-9.00E-04	1.70E-03	3.00E-03
OLYMPIA	STATION 1	06/11/91	Gross Beta		3.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	06/11/91	I-131	<	-2.60E-03	7.20E-03	3.00E-02
OLYMPIA	STATION 1	06/11/91	K-40	<	4.80E-02	3.50E-02	1.70E-01
OLYMPIA	STATION 1	06/17/91	Cs-137	<	-5.00E-04	2.10E-03	3.00E-03
OLYMPIA	STATION 1	06/17/91	Gross Beta	<	1.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	06/17/91	I-131	<	-7.50E-03	9.40E-03	3.00E-02
OLYMPIA	STATION 1	06/17/91	K-40	<	5.00E-02	4.20E-02	1.70E-01
OLYMPIA	STATION 1	06/24/91	Cs-137	<	-4.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	06/24/91	Gross Beta		2.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	06/24/91	I-131	<	6.60E-03	8.10E-03	3.00E-02
OLYMPIA	STATION 1	06/24/91	K-40	<	5.00E-02	4.00E-02	1.70E-01
OLYMPIA	STATION 1	07/01/91	Cs-137	<	2.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	07/01/91	Gross Beta		3.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	07/01/91	I-131	<	8.40E-03	7.50E-03	3.00E-02
OLYMPIA	STATION 1	07/08/91	Be-7		4.30E-02	2.50E-02	3.00E-02
OLYMPIA	STATION 1	07/08/91	Cs-137	<	-5.00E-04	1.90E-03	3.00E-03
OLYMPIA	STATION 1	07/08/91	Gross Beta		3.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	07/08/91	I-131	<	2.40E-03	8.10E-03	3.00E-02
OLYMPIA	STATION 1	07/08/91	K-40	<	5.70E-02	4.00E-02	1.70E-01
OLYMPIA	STATION 1	07/15/91	Be-7		4.00E-02	2.30E-02	3.00E-02
OLYMPIA	STATION 1	07/15/91	Cs-137	<	7.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	07/15/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	07/15/91	I-131	<	1.70E-03	8.60E-03	3.00E-02
OLYMPIA	STATION 1	07/22/91	Be-7	<	2.90E-02	1.90E-02	3.00E-02
OLYMPIA	STATION 1	07/22/91	Cs-137	<	8.00E-04	1.70E-03	3.00E-03
OLYMPIA	STATION 1	07/22/91	Gross Beta		3.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	07/22/91	I-131	<	-3.50E-03	9.50E-03	3.00E-02
OLYMPIA	STATION 1	07/29/91	Be-7		7.00E-02	2.20E-02	3.00E-02
OLYMPIA	STATION 1	07/29/91	Cs-137	<	2.00E-04	1.50E-03	3.00E-03
OLYMPIA	STATION 1	07/29/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	07/29/91	I-131	<	9.00E-03	1.10E-02	3.00E-02
OLYMPIA	STATION 1	08/05/91	Be-7		3.90E-02	2.40E-02	3.00E-02
OLYMPIA	STATION 1	08/05/91	Cs-137	<	-1.70E-03	1.80E-03	3.00E-03
OLYMPIA	STATION 1	08/05/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	08/05/91	I-131	<	3.40E-03	8.60E-03	3.00E-02
OLYMPIA	STATION 1	08/05/91	K-40	<	6.30E-02	4.10E-03	1.70E-01
OLYMPIA	STATION 1	08/12/91	Be-7		4.60E-02	2.70E-02	3.00E-02
OLYMPIA	STATION 1	08/12/91	Cs-137	<	-2.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	08/12/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	08/12/91	I-131	<	4.00E-04	8.50E-03	3.00E-02
OLYMPIA	STATION 1	08/19/91	Be-7		4.10E-02	2.80E-02	3.00E-02
OLYMPIA	STATION 1	08/19/91	Cs-137	<	-1.60E-03	2.10E-03	3.00E-03
OLYMPIA	STATION 1	08/19/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	08/19/91	I-131	<	-1.20E-03	8.30E-03	3.00E-02
OLYMPIA	STATION 1	08/19/91	K-40	<	6.10E-02	4.80E-02	1.70E-01
OLYMPIA	STATION 1	08/26/91	Be-7		5.30E-02	3.70E-02	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
OLYMPIA	STATION 1	08/26/91	Cs-137	<	-3.00E-04	1.90E-03	3.00E-03
OLYMPIA	STATION 1	08/26/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	08/26/91	I-131	<	1.70E-03	8.30E-03	3.00E-02
OLYMPIA	STATION 1	09/03/91	Be-7		5.70E-02	2.40E-02	3.00E-02
OLYMPIA	STATION 1	09/03/91	Cs-137	<	-8.00E-04	1.80E-03	3.00E-03
OLYMPIA	STATION 1	09/03/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	09/03/91	I-131	<	2.90E-03	7.00E-03	3.00E-02
OLYMPIA	STATION 1	09/03/91	K-40	<	6.20E-02	3.30E-02	1.70E-01
OLYMPIA	STATION 1	09/09/91	Be-7		4.30E-02	2.30E-02	3.00E-02
OLYMPIA	STATION 1	09/09/91	Cs-137	<	-5.00E-04	2.10E-03	3.00E-03
OLYMPIA	STATION 1	09/09/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	09/09/91	I-131	<	2.20E-03	8.70E-03	3.00E-02
OLYMPIA	STATION 1	09/09/91	K-40	<	9.10E-02	5.30E-02	1.70E-01
OLYMPIA	STATION 1	09/17/91	Be-7		6.70E-02	2.30E-02	3.00E-02
OLYMPIA	STATION 1	09/17/91	Cs-137	<	-1.10E-03	1.80E-03	3.00E-03
OLYMPIA	STATION 1	09/17/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	09/17/91	I-131	<	5.90E-03	7.00E-03	3.00E-02
OLYMPIA	STATION 1	09/23/91	Be-7		4.70E-02	2.70E-02	3.00E-02
OLYMPIA	STATION 1	09/23/91	Cs-137	<	8.00E-04	2.20E-03	3.00E-03
OLYMPIA	STATION 1	09/23/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	09/23/91	I-131	<	-2.20E-03	9.10E-03	3.00E-02
OLYMPIA	STATION 1	10/07/91	Be-7		1.00E-01	3.00E-02	3.00E-02
OLYMPIA	STATION 1	10/07/91	Cs-137	<	-1.40E-03	1.90E-03	3.00E-03
OLYMPIA	STATION 1	10/07/91	Gross Beta		1.50E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	10/07/91	I-131	<	2.80E-03	8.20E-03	3.00E-02
OLYMPIA	STATION 1	10/07/91	K-40	<	1.05E-01	3.90E-02	1.70E-01
OLYMPIA	STATION 1	10/14/91	Be-7		8.40E-02	2.50E-02	3.00E-02
OLYMPIA	STATION 1	10/14/91	Cs-137	<	-4.00E-04	1.60E-03	3.00E-03
OLYMPIA	STATION 1	10/14/91	Gross Beta	<	2.00E-02	2.00E-02	1.00E-03
OLYMPIA	STATION 1	10/14/91	I-131	<	2.40E-03	7.60E-03	3.00E-02
OLYMPIA	STATION 1	10/21/91	Be-7		8.50E-02	2.90E-02	3.00E-02
OLYMPIA	STATION 1	10/21/91	Cs-137	<	-1.40E-03	1.80E-03	3.00E-03
OLYMPIA	STATION 1	10/21/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	10/21/91	I-131	<	-8.00E-04	8.20E-03	3.00E-02
OLYMPIA	STATION 1	10/28/91	Be-7		6.20E-02	2.50E-02	3.00E-02
OLYMPIA	STATION 1	10/28/91	Cs-137	<	-1.00E-04	1.70E-03	3.00E-03
OLYMPIA	STATION 1	10/28/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	10/28/91	I-131	<	1.00E-03	8.00E-03	3.00E-02
OLYMPIA	STATION 1	11/01/91	Be-7		1.03E-01	4.10E-02	3.00E-02
OLYMPIA	STATION 1	11/01/91	Cs-137	<	1.80E-04	2.92E-03	3.00E-03
OLYMPIA	STATION 1	11/01/91	Gross Beta		3.10E-02	3.00E-03	1.00E-03
OLYMPIA	STATION 1	11/01/91	I-131	<	9.00E-03	1.60E-02	3.00E-02
OLYMPIA	STATION 1	11/12/91	Be-7		4.87E-02	2.62E-02	3.00E-02
OLYMPIA	STATION 1	11/12/91	Cs-137	<	6.40E-04	1.51E-03	3.00E-03
OLYMPIA	STATION 1	11/12/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	11/18/91	Be-7		3.46E-02	2.58E-02	3.00E-02
OLYMPIA	STATION 1	11/18/91	Cs-137	<	-5.30E-04	1.94E-03	3.00E-03
OLYMPIA	STATION 1	11/18/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	11/18/91	I-131	<	-6.96E-03	9.17E-03	3.00E-02
OLYMPIA	STATION 1	11/25/91	Be-7		4.19E-02	2.02E-02	3.00E-02
OLYMPIA	STATION 1	11/25/91	Cs-137	<	-9.10E-04	1.49E-03	3.00E-03
OLYMPIA	STATION 1	11/25/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	11/25/91	I-131	<	3.63E-03	5.60E-03	3.00E-02
OLYMPIA	STATION 1	12/02/91	Be-7		6.76E-02	2.65E-02	3.00E-02
OLYMPIA	STATION 1	12/02/91	Cs-137	<	-6.20E-04	1.60E-03	3.00E-03
OLYMPIA	STATION 1	12/02/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	12/02/91	I-131	<	-3.01E-03	7.65E-03	3.00E-02
OLYMPIA	STATION 1	12/09/91	Be-7		5.12E-02	2.16E-02	3.00E-02
OLYMPIA	STATION 1	12/09/91	Cs-137	<	-1.00E-04	1.41E-03	3.00E-03

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
OLYMPIA	STATION 1	12/09/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	12/09/91	I-131	<	-1.15E-02	9.10E-03	3.00E-02
OLYMPIA	STATION 1	12/16/91	Be-7		4.37E-02	1.71E-02	3.00E-02
OLYMPIA	STATION 1	12/16/91	Cs-137	<	1.34E-03	1.61E-03	3.00E-03
OLYMPIA	STATION 1	12/16/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
OLYMPIA	STATION 1	12/16/91	I-131	<	6.70E-03	6.01E-03	3.00E-02
OLYMPIA	STATION 1	12/23/91	Be-7		6.72E-02	2.35E-02	3.00E-02
OLYMPIA	STATION 1	12/23/91	Cs-137	<	9.60E-04	1.81E-03	3.00E-03
OLYMPIA	STATION 1	12/23/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
OLYMPIA	STATION 1	12/23/91	I-131	<	-5.00E-03	1.04E-02	3.00E-02
OLYMPIA	STATION 1	12/30/91	Be-7		9.73E-02	2.72E-02	3.00E-02
OLYMPIA	STATION 1	12/30/91	Cs-137	<	-3.00E-05	1.74E-03	3.00E-03
OLYMPIA	STATION 1	12/30/91	Gross Beta		3.40E-02	2.00E-03	1.00E-03
OLYMPIA	STATION 1	12/30/91	I-131	<	4.32E-03	7.84E-03	3.00E-02
WNP-2	STATION 4	01/07/91	Gross Beta		4.10E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	01/07/91	I-131	<	9.00E-04	9.60E-03	3.00E-02
WNP-2	STATION 4	01/14/91	Gross Beta		9.00E-02	3.00E-03	1.00E-03
WNP-2	STATION 4	01/14/91	I-131	<	1.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	01/21/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	01/21/91	I-131	<	6.40E-03	7.90E-03	3.00E-02
WNP-2	STATION 4	01/28/91	Gross Beta		4.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	01/28/91	I-131	<	-1.00E-02	9.00E-03	3.00E-02
WNP-2	STATION 4	02/04/91	Gross Beta		3.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	02/04/91	I-131	<	-3.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	02/11/91	Gross Beta		3.30E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	02/11/91	I-131	<	-3.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	02/19/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	02/19/91	I-131	<	2.00E-03	7.00E-03	3.00E-02
WNP-2	STATION 4	02/25/91	Gross Beta		1.30E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	02/25/91	I-131	<	2.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 4	03/04/91	Gross Beta		2.20E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	03/04/91	I-131	<	-2.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	03/11/91	Gross Beta		6.70E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	03/11/91	I-131	<	-2.50E-03	8.40E-03	3.00E-02
WNP-2	STATION 4	03/18/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	03/18/91	I-131	<	4.60E-03	8.30E-03	3.00E-02
WNP-2	STATION 4	03/25/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	03/25/91	I-131	<	6.60E-03	7.20E-03	3.00E-02
WNP-2	STATION 4	04/01/91	Gross Beta		1.90E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	04/01/91	I-131	<	6.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 4	04/08/91	Gross Beta		9.00E-03	3.00E-03	1.00E-03
WNP-2	STATION 4	04/08/91	I-131	<	-5.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 4	04/15/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	04/22/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	04/22/91	I-131	<	3.90E-03	9.20E-03	3.00E-02
WNP-2	STATION 4	04/29/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	04/29/91	I-131	<	3.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 4	05/07/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	05/07/91	I-131	<	-6.97E-03	8.85E-03	3.00E-02
WNP-2	STATION 4	05/13/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	05/13/91	I-131	<	5.74E-03	9.73E-03	3.00E-02
WNP-2	STATION 4	05/20/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	05/20/91	I-131	<	-2.93E-03	8.11E-03	3.00E-02
WNP-2	STATION 4	05/28/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	05/28/91	I-131	<	1.14E-03	6.93E-03	3.00E-02
WNP-2	STATION 4	06/03/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	06/03/91	I-131	<	2.14E-03	9.84E-03	3.00E-02
WNP-2	STATION 4	06/10/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	06/10/91	I-131	<	2.90E-03	1.01E-02	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 4	06/17/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	06/17/91	I-131	<	7.81E-03	8.39E-03	3.00E-02
WNP-2	STATION 4	06/24/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	06/24/91	I-131	<	3.29E-03	7.75E-03	3.00E-02
WNP-2	STATION 4	07/01/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	07/01/91	I-131	<	5.30E-03	9.30E-03	3.00E-02
WNP-2	STATION 4	07/08/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	07/08/91	I-131	<	-3.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	07/15/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	07/15/91	I-131	<	-1.11E-03	8.95E-03	3.00E-02
WNP-2	STATION 4	07/22/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	07/22/91	I-131	<	-5.31E-03	8.78E-03	3.00E-02
WNP-2	STATION 4	07/29/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	07/29/91	I-131	<	-5.00E-04	8.76E-03	3.00E-02
WNP-2	STATION 4	08/05/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	08/05/91	I-131	<	7.80E-03	8.22E-03	3.00E-02
WNP-2	STATION 4	08/12/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	08/12/91	I-131	<	-3.80E-04	7.80E-03	3.00E-02
WNP-2	STATION 4	08/15/91	Be-7		8.64E-02	4.27E-02	3.00E-02
WNP-2	STATION 4	08/15/91	Cs-134	<	-7.40E-05	3.52E-04	4.00E-03
WNP-2	STATION 4	08/15/91	Cs-137	<	-1.50E-04	3.24E-04	3.00E-03
WNP-2	STATION 4	08/19/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	08/19/91	I-131	<	-4.59E-03	9.12E-03	3.00E-02
WNP-2	STATION 4	08/26/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	08/26/91	I-131	<	-5.00E-04	7.38E-03	3.00E-02
WNP-2	STATION 4	09/03/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	09/03/91	I-131	<	-3.31E-03	7.46E-03	3.00E-02
WNP-2	STATION 4	09/09/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	09/09/91	I-131	<	2.79E-03	9.40E-03	3.00E-02
WNP-2	STATION 4	09/16/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	09/16/91	I-131	<	1.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 4	09/23/91	Gross Beta		1.80E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	09/23/91	I-131	<	-1.50E-03	8.40E-03	3.00E-02
WNP-2	STATION 4	09/30/91	Gross Beta		2.20E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	09/30/91	I-131	<	-3.11E-03	7.33E-03	3.00E-02
WNP-2	STATION 4	10/07/91	Gross Beta		2.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	10/07/91	I-131	<	-7.40E-04	7.54E-03	3.00E-02
WNP-2	STATION 4	10/14/91	Gross Beta		3.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	10/14/91	I-131	<	-1.78E-03	8.90E-03	3.00E-02
WNP-2	STATION 4	10/17/91	Gross Beta		3.40E-02	3.00E-03	1.00E-03
WNP-2	STATION 4	10/17/91	I-131	<	-1.90E-02	2.71E-02	3.00E-02
WNP-2	STATION 4	10/21/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	10/21/91	I-131	<	1.00E-03	1.50E-02	3.00E-02
WNP-2	STATION 4	10/28/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	10/28/91	I-131	<	5.75E-03	9.16E-03	3.00E-02
WNP-2	STATION 4	11/04/91	Gross Beta		4.90E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	11/04/91	I-131	<	6.20E-04	8.92E-03	3.00E-02
WNP-2	STATION 4	11/11/91	Gross Beta		3.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	11/11/91	I-131	<	6.75E-03	7.86E-03	3.00E-02
WNP-2	STATION 4	11/15/91	Be-7		6.07E-02	6.00E-03	3.00E-02
WNP-2	STATION 4	11/15/91	Cs-134	<	-2.27E-04	3.75E-04	4.00E-03
WNP-2	STATION 4	11/15/91	Cs-137	<	-2.60E-04	3.44E-04	3.00E-03
WNP-2	STATION 4	11/15/91	K-40	<	1.27E-02	9.30E-03	1.70E-01
WNP-2	STATION 4	11/18/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	11/18/91	I-131	<	-6.47E-03	7.83E-03	3.00E-02
WNP-2	STATION 4	11/25/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
WNP-2	STATION 4	11/25/91	I-131	<	-3.00E-04	1.20E-02	3.00E-02
WNP-2	STATION 4	12/02/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	12/02/91	I-131	<	-3.97E-03	8.39E-03	3.00E-02

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 4	12/09/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 4	12/09/91	I-131	<	-2.66E-03	8.71E-03	3.00E-02
WNP-2	STATION 4	12/16/91	Gross Beta		2.60E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	12/16/91	I-131	<	-1.38E-03	8.09E-03	3.00E-02
WNP-2	STATION 4	12/23/91	Gross Beta		3.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 4	12/23/91	I-131	<	-5.90E-03	1.18E-02	3.00E-02
WNP-2	STATION 4	12/30/91	Gross Beta		5.30E-02	3.00E-03	1.00E-03
WNP-2	STATION 4	12/30/91	I-131	<	-2.10E-03	8.39E-03	3.00E-02
WNP-2	STATION 8	01/07/91	Gross Beta		3.20E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	01/07/91	I-131	<	-1.00E-02	1.00E-02	3.00E-02
WNP-2	STATION 8	01/14/91	Gross Beta		7.00E-02	3.00E-03	1.00E-03
WNP-2	STATION 8	01/14/91	I-131	<	-2.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 8	01/21/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	01/21/91	I-131	<	-6.00E-04	9.00E-03	3.00E-02
WNP-2	STATION 8	01/28/91	Gross Beta		3.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	01/28/91	I-131	<	-9.10E-03	9.40E-03	3.00E-02
WNP-2	STATION 8	02/04/91	Gross Beta		2.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	02/04/91	I-131	<	4.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 8	02/11/91	Gross Beta		2.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	02/11/91	I-131	<	6.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 8	02/19/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	02/19/91	I-131	<	3.00E-03	7.00E-03	3.00E-02
WNP-2	STATION 8	02/25/91	Gross Beta		1.10E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	02/25/91	I-131	<	-3.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 8	03/04/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	03/04/91	I-131	<	-9.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 8	03/11/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	03/11/91	I-131	<	-5.00E-04	7.70E-02	3.00E-02
WNP-2	STATION 8	03/18/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	03/18/91	I-131	<	2.00E-03	8.00E-03	3.00E-02
WNP-2	STATION 8	03/25/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	03/25/91	I-131	<	1.70E-04	7.53E-03	3.00E-02
WNP-2	STATION 8	04/01/91	Gross Beta		1.70E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	04/01/91	I-131	<	-2.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 8	04/08/91	Gross Beta		7.00E-03	3.00E-03	1.00E-03
WNP-2	STATION 8	04/08/91	I-131	<	-4.00E-03	1.10E-02	3.00E-02
WNP-2	STATION 8	04/15/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	04/15/91	I-131	<	-6.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 8	04/22/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	04/22/91	I-131	<	6.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 8	04/29/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	04/29/91	I-131	<	-3.00E-03	1.00E-02	3.00E-02
WNP-2	STATION 8	05/07/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	05/07/91	I-131	<	4.60E-03	9.01E-03	3.00E-02
WNP-2	STATION 8	05/13/91	Gross Beta		6.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	05/13/91	I-131	<	-5.33E-03	9.80E-03	3.00E-02
WNP-2	STATION 8	05/20/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	05/20/91	I-131	<	5.50E-04	9.19E-03	3.00E-02
WNP-2	STATION 8	05/28/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	05/28/91	I-131	<	-1.41E-02	8.00E-03	3.00E-02
WNP-2	STATION 8	06/03/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	06/03/91	I-131	<	-4.62E-03	9.07E-03	3.00E-02
WNP-2	STATION 8	06/10/91	Gross Beta		7.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	06/10/91	I-131	<	-1.68E-03	9.29E-03	3.00E-02
WNP-2	STATION 8	06/17/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	06/17/91	I-131	<	1.58E-03	9.22E-03	3.00E-02
WNP-2	STATION 8	06/24/91	Gross Beta		5.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	06/24/91	I-131	<	-7.50E-04	8.53E-03	3.00E-02
WNP-2	STATION 8	07/01/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 8	07/01/91	I-131	<	7.80E-03	8.80E-03	3.00E-02
WNP-2	STATION 8	07/08/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	07/08/91	I-131	<	-5.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 8	07/15/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	07/15/91	I-131	<	1.22E-02	7.70E-03	3.00E-02
WNP-2	STATION 8	07/22/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	07/22/91	I-131	<	1.13E-03	8.97E-03	3.00E-02
WNP-2	STATION 8	07/29/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	07/29/91	I-131	<	-3.40E-03	1.06E-02	3.00E-02
WNP-2	STATION 8	08/05/91	Gross Beta		1.40E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	08/05/91	I-131	<	2.40E-04	8.63E-03	3.00E-02
WNP-2	STATION 8	08/12/91	Gross Beta		1.30E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	08/12/91	I-131	<	-4.47E-03	8.77E-03	3.00E-02
WNP-2	STATION 8	08/15/91	Be-7		9.99E-02	3.77E-02	3.00E-02
WNP-2	STATION 8	08/15/91	Cs-134	<	1.45E-04	3.64E-04	4.00E-03
WNP-2	STATION 8	08/15/91	Cs-137	<	-2.31E-04	3.37E-04	3.00E-03
WNP-2	STATION 8	08/19/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	08/19/91	I-131	<	5.79E-03	8.00E-03	3.00E-02
WNP-2	STATION 8	08/26/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	08/26/91	I-131	<	4.14E-03	7.43E-03	3.00E-02
WNP-2	STATION 8	09/03/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	09/03/91	I-131	<	3.24E-03	7.58E-03	3.00E-02
WNP-2	STATION 8	09/09/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	09/09/91	I-131	<	-4.11E-03	9.48E-03	3.00E-02
WNP-2	STATION 8	09/16/91	Gross Beta		1.50E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	09/16/91	I-131	<	-4.00E-03	9.00E-03	3.00E-02
WNP-2	STATION 8	09/23/91	Gross Beta		1.60E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	09/23/91	I-131	<	-4.90E-03	8.40E-03	3.00E-02
WNP-2	STATION 8	09/30/91	Gross Beta		2.20E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	09/30/91	I-131	<	6.28E-03	8.78E-03	3.00E-02
WNP-2	STATION 8	10/07/91	Gross Beta		2.20E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	10/07/91	I-131	<	-1.77E-03	8.65E-03	3.00E-02
WNP-2	STATION 8	10/14/91	Gross Beta		3.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	10/14/91	I-131	<	-8.16E-03	8.09E-03	3.00E-02
WNP-2	STATION 8	10/17/91	Gross Beta		2.00E-02	3.00E-03	1.00E-03
WNP-2	STATION 8	10/17/91	I-131	<	-3.00E-04	2.32E-02	3.00E-02
WNP-2	STATION 8	10/21/91	Gross Beta		1.40E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	10/21/91	I-131	<	1.24E-02	1.54E-02	3.00E-02
WNP-2	STATION 8	10/28/91	Gross Beta		1.10E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	10/28/91	I-131	<	-6.00E-04	8.90E-03	3.00E-02
WNP-2	STATION 8	11/04/91	Gross Beta		4.30E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	11/04/91	I-131	<	-4.10E-03	7.98E-03	3.00E-02
WNP-2	STATION 8	11/11/91	Gross Beta		3.00E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	11/11/91	I-131	<	2.07E-03	8.31E-03	3.00E-02
WNP-2	STATION 8	11/15/91	Be-7		4.66E-02	1.05E-02	3.00E-02
WNP-2	STATION 8	11/15/91	Cs-134	<	8.30E-05	4.43E-04	4.00E-03
WNP-2	STATION 8	11/15/91	Cs-137	<	-1.57E-04	4.03E-04	3.00E-03
WNP-2	STATION 8	11/15/91	K-40	<	1.50E-02	7.30E-03	1.70E-01
WNP-2	STATION 8	11/18/91	Gross Beta		9.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	11/18/91	I-131	<	4.43E-03	8.68E-03	3.00E-02
WNP-2	STATION 8	11/25/91	Gross Beta		1.00E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	11/25/91	I-131	<	1.44E-03	8.04E-03	3.00E-02
WNP-2	STATION 8	12/02/91	Gross Beta		8.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	12/02/91	I-131	<	-1.67E-03	8.00E-03	3.00E-02
WNP-2	STATION 8	12/09/91	Gross Beta		4.00E-03	1.00E-03	1.00E-03
WNP-2	STATION 8	12/09/91	I-131	<	5.11E-03	8.64E-03	3.00E-02
WNP-2	STATION 8	12/16/91	Gross Beta		1.20E-02	1.00E-03	1.00E-03
WNP-2	STATION 8	12/16/91	I-131	<	7.20E-04	8.12E-03	3.00E-02
WNP-2	STATION 8	12/23/91	Gross Beta		3.60E-02	2.00E-03	1.00E-03

TABLE A-1 CONTINUED

AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 8	12/23/91	I-131	<	2.40E-03	1.39E-02	3.00E-02
WNP-2	STATION 8	12/30/91	Gross Beta		5.10E-02	2.00E-03	1.00E-03
WNP-2	STATION 8	12/30/91	I-131	<	-5.35E-03	7.90E-03	3.00E-02

TABLE A-2

AIR PARTICULATE QUARTERLY COMPOSITE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSES		RESULT	ERROR	LLD
HANFORD	200GTE	1st Qtr.	Be-7		9.30E-02	7.80E-02	1.00E-02
HANFORD	200GTE	1st Qtr.	Cs-134	<	3.00E-04	1.70E-03	2.00E-03
HANFORD	200GTE	1st Qtr.	Cs-137	<	-1.30E-03	1.60E-03	1.00E-03
HANFORD	200GTE	1st Qtr.	Ru-106	<	2.00E-03	1.70E-02	8.00E-02
HANFORD	200GTE	2nd Qtr.	Be-7		8.80E-02	2.10E-02	1.00E-02
HANFORD	200GTE	2nd Qtr.	Cs-134	<	2.40E-04	3.30E-04	2.00E-03
HANFORD	200GTE	2nd Qtr.	Cs-137	<	-2.90E-04	3.40E-04	1.00E-03
HANFORD	200GTE	2nd Qtr.	K-40	<	1.20E-02	5.50E-02	2.00E-02
HANFORD	200GTE	2nd Qtr.	Ru-106	<	-1.80E-02	3.60E-03	8.00E-02
HANFORD	200GTE	3rd Qtr.	Be-7		1.11E-01	5.70E-02	3.00E-02
HANFORD	200GTE	3rd Qtr.	Cs-134	<	3.28E-04	6.41E-04	4.00E-03
HANFORD	200GTE	3rd Qtr.	Cs-137	<	7.20E-05	5.53E-04	3.00E-03
HANFORD	200GTE	4th Qtr.	Be-7		1.02E-01	1.70E-02	3.00E-02
HANFORD	200GTE	4th Qtr.	Cs-134	<	-1.50E-04	3.98E-04	4.00E-03
HANFORD	200GTE	4th Qtr.	Cs-137	<	3.23E-04	4.05E-04	3.00E-03
HANFORD	200GTE	4th Qtr.	K-40	<	1.01E-02	7.30E-03	1.70E-01
HANFORD	HANFORD TOWN	1st Qtr.	Cs-134	<	-4.10E-03	4.00E-03	2.00E-03
HANFORD	HANFORD TOWN	1st Qtr.	Cs-137	<	0.00E+00	3.30E-03	1.00E-03
HANFORD	HANFORD TOWN	1st Qtr.	Ru-106	<	3.00E-03	3.40E-02	8.00E-02
HANFORD	HANFORD TOWN	2nd Qtr.	Be-7		7.20E-02	2.00E-02	1.00E-02
HANFORD	HANFORD TOWN	2nd Qtr.	Cs-134	<	-8.00E-05	3.90E-04	2.00E-03
HANFORD	HANFORD TOWN	2nd Qtr.	Cs-137	<	4.10E-04	4.00E-04	1.00E-03
HANFORD	HANFORD TOWN	2nd Qtr.	K-40	<	1.00E-02	8.00E-03	2.00E-02
HANFORD	HANFORD TOWN	2nd Qtr.	Ru-106	<	-1.70E-03	4.10E-03	8.00E-02
HANFORD	HANFORD TOWN	3rd Qtr.	Be-7		7.87E-02	3.76E-02	3.00E-02
HANFORD	HANFORD TOWN	3rd Qtr.	Cs-134	<	-2.80E-04	5.00E-04	4.00E-03

TABLE A-2 CONTINUED

AIR PARTICULATE QUARTERLY COMPOSITE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSES		RESULT	ERROR	LLD
HANFORD	HANFORD TOWN	3rd Qtr.	Cs-137	<	2.00E-05	4.65E-04	3.00E-03
HANFORD	HANFORD TOWN	3rd Qtr.	K-40	<	1.07E-02	9.60E-03	1.70E-01
HANFORD	HANFORD TOWN	4th Qtr.	Be-7		8.44E-02	2.26E-02	3.00E-02
HANFORD	HANFORD TOWN	4th Qtr.	Cs-134	<	2.30E-05	4.74E-04	4.00E-03
HANFORD	HANFORD TOWN	4th Qtr.	Cs-137	<	-1.80E-04	4.37E-04	3.00E-03
HANFORD	HANFORD TOWN	4th Qtr.	K-40	<	1.32E-02	8.90E-03	1.70E-01
HANFORD	WYE	1st Qtr.	Be-7		7.70E-02	2.20E-02	1.00E-02
HANFORD	WYE	1st Qtr.	Cs-134	<	-1.20E-04	4.20E-04	2.00E-03
HANFORD	WYE	1st Qtr.	Cs-137	<	1.00E-05	4.20E-04	1.00E-03
HANFORD	WYE	1st Qtr.	K-40	<	9.30E-03	7.70E-03	2.00E-02
HANFORD	WYE	1st Qtr.	Ru-106	<	1.90E-03	4.00E-03	8.00E-02
HANFORD	WYE	2nd Qtr.	Be-7		7.10E-02	1.30E-02	3.00E-02
HANFORD	WYE	2nd Qtr.	Cs-134	<	1.10E-04	3.20E-04	4.00E-03
HANFORD	WYE	2nd Qtr.	Cs-137	<	2.70E-04	3.20E-04	3.00E-03
HANFORD	WYE	2nd Qtr.	K-40	<	7.90E-03	7.50E-03	1.70E-01
HANFORD	WYE	2nd Qtr.	Ru-106	<	-6.00E-04	3.30E-03	3.00E-02
HANFORD	WYE	3rd Qtr.	Be-7		1.26E-01	5.10E-02	3.00E-02
HANFORD	WYE	3rd Qtr.	Cs-134	<	-3.70E-04	4.46E-04	4.00E-03
HANFORD	WYE	3rd Qtr.	Cs-137	<	2.21E-04	3.53E-04	3.00E-03
HANFORD	WYE	4th Qtr.	Be-7		7.08E-02	1.67E-02	3.00E-02
HANFORD	WYE	4th Qtr.	Cs-134	<	-2.00E-04	3.27E-04	4.00E-03
HANFORD	WYE	4th Qtr.	Cs-137	<	1.71E-04	3.60E-04	3.00E-03
HANFORD	YAKIMA B.	1st Qtr.	Be-7		7.60E-02	2.40E-02	1.00E-02
HANFORD	YAKIMA B.	1st Qtr.	Cs-134	<	4.20E-04	4.50E-04	2.00E-03
HANFORD	YAKIMA B.	1st Qtr.	Cs-137	<	4.50E-04	4.50E-04	1.00E-03
HANFORD	YAKIMA B.	1st Qtr.	K-40		2.60E-02	9.00E-03	2.00E-02
HANFORD	YAKIMA B.	1st Qtr.	Ru-106	<	-4.80E-03	5.00E-03	8.00E-02
HANFORD	YAKIMA B.	2nd Qtr.	Be-7		6.80E-02	2.00E-02	1.00E-02
HANFORD	YAKIMA B.	2nd Qtr.	Cs-134	<	-2.60E-04	4.20E-04	2.00E-03

TABLE A-2 CONTINUED

AIR PARTICULATE QUARTERLY COMPOSITE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSES		RESULT	ERROR	LLD
HANFORD	YAKIMA B.	2nd Qtr.	Cs-137	<	1.90E-04	3.60E-04	1.00E-03
HANFORD	YAKIMA B.	2nd Qtr.	Ru-106	<	-2.30E-03	4.20E-03	8.00E-02
HANFORD	YAKIMA B.	3rd Qtr.	Be-7		8.56E-02	3.98E-02	3.00E-02
HANFORD	YAKIMA B.	3rd Qtr.	Cs-134	<	-1.60E-04	4.33E-04	4.00E-03
HANFORD	YAKIMA B.	3rd Qtr.	Cs-137	<	-1.80E-05	4.28E-04	3.00E-03
HANFORD	YAKIMA B.	3rd Qtr.	K-40	<	1.36E-02	8.30E-03	1.70E-01
HANFORD	YAKIMA B.	4th Qtr.	Be-7		1.07E-01	1.80E-02	3.00E-02
HANFORD	YAKIMA B.	4th Qtr.	Cs-134	<	-7.40E-05	3.81E-04	4.00E-03
HANFORD	YAKIMA B.	4th Qtr.	Cs-137	<	4.28E-04	3.98E-04	3.00E-03
HANFORD	YAKIMA B.	4th Qtr.	K-40	<	1.38E-02	6.80E-03	1.70E-01
WNP-2	S 4	1st Qtr.	Be-7		8.79E-02	1.94E-02	1.00E-02
WNP-2	S 4	1st Qtr.	Cs-134	<	3.79E-04	4.69E-04	2.00E-03
WNP-2	S 4	1st Qtr.	Cs-137	<	4.37E-04	4.55E-04	1.00E-03
WNP-2	S 4	1st Qtr.	K-40	<	1.28E-02	1.00E-02	2.00E-02
WNP-2	S 4	2nd Qtr.	Be-7		9.80E-02	1.63E-02	1.00E-02
WNP-2	S 4	2nd Qtr.	Cs-134	<	-2.80E-05	3.41E-04	2.00E-03
WNP-2	S 4	2nd Qtr.	Cs-137	<	-2.30E-04	3.61E-04	1.00E-03
WNP-2	S 4	3rd Qtr.	Be-7		8.64E-02	4.27E-02	3.00E-02
WNP-2	S 4	3rd Qtr.	Cs-134	<	-7.40E-05	3.52E-04	4.00E-03
WNP-2	S 4	3rd Qtr.	Cs-137	<	-1.50E-04	3.24E-04	3.00E-03
WNP-2	S 4	4th Qtr.	Be-7		6.07E-02	6.00E-03	3.00E-02
WNP-2	S 4	4th Qtr.	Cs-134	<	-2.30E-04	3.75E-04	4.00E-03
WNP-2	S 4	4th Qtr.	Cs-137	<	-2.60E-04	3.44E-04	3.00E-03
WNP-2	S 4	4th Qtr.	K-40	<	1.27E-02	9.30E-03	1.70E-01
WNP-2	S 8	1st Qtr.	Be-7		8.01E-02	2.68E-02	1.00E-02
WNP-2	S 8	1st Qtr.	Cs-134	<	-3.10E-04	3.84E-04	2.00E-03
WNP-2	S 8	1st Qtr.	Cs-137	<	5.90E-05	3.99E-04	1.00E-03
WNP-2	S 8	1st Qtr.	K-40	<	6.92E-03	5.46E-03	2.00E-02
WNP-2	S 8	2nd Qtr.	Be-7		7.35E-02	1.48E-02	1.00E-02

TABLE A-2 CONTINUED

AIR PARTICULATE QUARTERLY COMPOSITE ANALYSES
(pCi/m^3 $\pm$ 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSES		RESULT	ERROR	LLD
WNP-2	S 8	2nd Qtr.	Cs-134	<	-3.40E-05	4.23E-04	2.00E-03
WNP-2	S 8	2nd Qtr.	Cs-137	<	1.01E-04	3.62E-04	1.00E-03
WNP-2	S 8	2nd Qtr.	K-40	<	7.48E-04	6.76E-03	2.00E-02
WNP-2	S 8	3rd Qtr.	Be-7		9.99E-02	3.77E-02	3.00E-02
WNP-2	S 8	3rd Qtr.	Cs-134	<	1.45E-04	3.64E-04	4.00E-03
WNP-2	S 8	3rd Qtr.	Cs-137	<	-2.30E-04	3.37E-04	3.00E-03
WNP-2	S 8	4th Qtr.	Be-7		4.66E-02	1.05E-02	3.00E-02
WNP-2	S 8	4th Qtr.	Cs-134	<	8.30E-05	4.43E-04	4.00E-03
WNP-2	S 8	4th Qtr.	Cs-137	<	-1.60E-04	4.03E-04	3.00E-03
WNP-2	S 8	4th Qtr.	K-40	<	1.50E-02	7.30E-03	1.70E-01

TABLE A-3

DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	DISCH.	01/09/91	Ba-140	<	-3.90E+00	8.60E+00	1.70E+01
WNP-2	DISCH.	01/09/91	Co-58	<	1.30E-01	9.50E-01	2.00E+00
WNP-2	DISCH.	01/09/91	Co-60	<	-2.90E-01	9.20E-01	3.00E+00
WNP-2	DISCH.	01/09/91	Cs-134	<	2.10E-01	8.50E-01	3.00E+00
WNP-2	DISCH.	01/09/91	Cs-137	<	0.00E+00	8.70E-01	3.00E+00
WNP-2	DISCH.	01/09/91	Fe-59	<	6.00E-01	2.00E+00	5.00E+00
WNP-2	DISCH.	01/09/91	Gross Beta		9.00E+00	2.00E+00	1.00E+00
WNP-2	DISCH.	01/09/91	H-3	<	3.40E+01	8.70E+01	3.50E+02
WNP-2	DISCH.	01/09/91	K-40	<	2.60E+01	2.20E+01	4.00E+01
WNP-2	DISCH.	01/09/91	Mn-54	<	3.20E-01	8.80E-01	2.00E+00
WNP-2	DISCH.	01/09/91	Zn-65	<	-7.00E-01	1.70E+00	5.00E+00
WNP-2	DISCH.	01/09/91	Zr-95	<	-6.00E-01	1.00E+00	5.00E+00
WNP-2	DISCH.	02/12/91	Ba-140	<	2.00E+00	1.20E+01	1.70E+01
WNP-2	DISCH.	02/12/91	Co-58	<	2.00E-01	1.40E+00	2.00E+00
WNP-2	DISCH.	02/12/91	Co-60	<	1.30E+00	1.40E+00	3.00E+00
WNP-2	DISCH.	02/12/91	Cs-134	<	-3.00E-01	1.50E+00	3.00E+00
WNP-2	DISCH.	02/12/91	Cs-137	<	2.00E-01	1.60E+00	3.00E+00
WNP-2	DISCH.	02/12/91	Fe-59	<	1.60E+00	3.20E+00	5.00E+00
WNP-2	DISCH.	02/12/91	Gross Beta		9.00E+00	2.00E+00	1.00E+00
WNP-2	DISCH.	02/12/91	H-3	<	1.04E+02	8.00E+01	3.50E+02
WNP-2	DISCH.	02/12/91	Mn-54	<	-3.00E-01	1.70E+00	2.00E+00
WNP-2	DISCH.	02/12/91	Zn-65	<	-2.10E+00	3.40E+00	5.00E+00
WNP-2	DISCH.	02/12/91	Zr-95	<	-8.00E-01	1.70E+00	5.00E+00
WNP-2	DISCH.	03/13/91	Ba-140	<	4.70E+00	6.80E+00	1.70E+01
WNP-2	DISCH.	03/13/91	Co-58	<	0.00E+00	1.00E+00	2.00E+00
WNP-2	DISCH.	03/13/91	Co-60	<	1.00E+00	1.00E+00	3.00E+00
WNP-2	DISCH.	03/13/91	Cs-134	<	-4.20E-01	9.80E-01	3.00E+00
WNP-2	DISCH.	03/13/91	Cs-137	<	4.00E-01	1.10E+00	3.00E+00
WNP-2	DISCH.	03/13/91	Fe-59	<	-1.60E+00	2.30E+00	5.00E+00
WNP-2	DISCH.	03/13/91	Gross Beta		9.00E+00	2.00E+00	1.00E+00
WNP-2	DISCH.	03/13/91	H-3	<	1.25E+02	8.70E+01	3.50E+02
WNP-2	DISCH.	03/13/91	Mn-54	<	-4.30E-01	9.80E-01	2.00E+00
WNP-2	DISCH.	03/13/91	Zn-65	<	-1.10E+00	2.10E+00	5.00E+00
WNP-2	DISCH.	03/13/91	Zr-95	<	-1.00E-02	9.80E-01	5.00E+00
WNP-2	DISCH.	04/09/91	Ba-140	<	3.70E+00	6.30E+00	1.70E+01
WNP-2	DISCH.	04/09/91	Co-58	<	-2.30E-01	9.00E-01	2.00E+00
WNP-2	DISCH.	04/09/91	Co-60	<	-6.00E-01	1.30E+00	3.00E+00
WNP-2	DISCH.	04/09/91	Cs-134	<	-5.60E-01	9.90E-01	3.00E+00
WNP-2	DISCH.	04/09/91	Cs-137	<	4.30E-01	9.70E-01	3.00E+00
WNP-2	DISCH.	04/09/91	Fe-59	<	1.30E+00	2.10E+00	5.00E+00
WNP-2	DISCH.	04/09/91	Gross Beta		1.03E+01	1.50E+00	1.00E+00
WNP-2	DISCH.	04/09/91	H-3	<	1.72E+02	9.00E+01	3.50E+02
WNP-2	DISCH.	04/09/91	Mn-54	<	-1.40E-01	9.80E-01	2.00E+00
WNP-2	DISCH.	04/09/91	Zn-65	<	-5.00E-01	2.00E+00	5.00E+00
WNP-2	DISCH.	04/09/91	Zr-95	<	9.00E-02	9.60E-01	5.00E+00
WNP-2	DISCH.	05/08/91	Ba-140		7.10E+01	7.00E+01	1.70E+01
WNP-2	DISCH.	05/08/91	Co-58	<	0.00E+00	1.20E+01	2.00E+00
WNP-2	DISCH.	05/08/91	Co-60		1.50E+01	1.30E+01	3.00E+00
WNP-2	DISCH.	05/08/91	Cs-134	<	3.00E+00	1.10E+01	3.00E+00

TABLE A-3 CONTINUED

DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	DISCH.	05/08/91	Cs-137	<	1.10E+01	1.30E+01	3.00E+00
WNP-2	DISCH.	05/08/91	Fe-59	<	6.00E+00	2.30E+01	5.00E+00
WNP-2	DISCH.	05/08/91	Gross Beta		7.70E+00	1.20E+00	1.00E+00
WNP-2	DISCH.	05/08/91	H-3	<	1.50E+02	9.00E+01	3.50E+02
WNP-2	DISCH.	05/08/91	Mn-54	<	1.10E+01	1.20E+01	2.00E+00
WNP-2	DISCH.	05/08/91	Zn-65	<	9.00E+00	2.40E+01	5.00E+00
WNP-2	DISCH.	05/08/91	Zr-95	<	-7.00E+00	1.30E+01	5.00E+00
WNP-2	DISCH.	07/09/91	Ba-140	<	1.72E+01	2.69E+01	1.70E+01
WNP-2	DISCH.	07/09/91	Co-58		3.13E+00	1.84E+00	2.00E+00
WNP-2	DISCH.	07/09/91	Co-60		3.18E+01	3.60E+00	3.00E+00
WNP-2	DISCH.	07/09/91	Cs-134	<	1.57E+00	1.54E+00	3.00E+00
WNP-2	DISCH.	07/09/91	Cs-137		5.38E+00	2.52E+00	3.00E+00
WNP-2	DISCH.	07/09/91	Fe-59	<	1.66E+00	4.21E+00	5.00E+00
WNP-2	DISCH.	07/09/91	Gross Beta		2.86E+01	1.90E+00	1.00E+00
WNP-2	DISCH.	07/09/91	H-3		1.00E+03	1.10E+02	3.50E+02
WNP-2	DISCH.	07/09/91	Mn-54		4.42E+00	2.46E+00	2.00E+00
WNP-2	DISCH.	07/09/91	Zn-65		3.45E+01	6.60E+00	5.00E+00
WNP-2	DISCH.	07/09/91	Zr-95	<	2.50E-01	1.72E+00	5.00E+00
WNP-2	DISCH.	08/13/91	Ba-140	<	-7.90E+00	3.68E+01	1.70E+01
WNP-2	DISCH.	08/13/91	Co-58	<	-1.00E-02	2.10E+00	2.00E+00
WNP-2	DISCH.	08/13/91	Co-60		3.96E+01	4.40E+00	3.00E+00
WNP-2	DISCH.	08/13/91	Cs-134	<	2.80E+00	2.10E+00	3.00E+00
WNP-2	DISCH.	08/13/91	Cs-137		5.36E+00	2.63E+00	3.00E+00
WNP-2	DISCH.	08/13/91	Fe-59	<	-8.50E-01	5.13E+00	5.00E+00
WNP-2	DISCH.	08/13/91	Gross Beta		2.25E+01	1.70E+00	1.00E+00
WNP-2	DISCH.	08/13/91	H-3	<	1.21E+02	9.00E+01	3.50E+02
WNP-2	DISCH.	08/13/91	K-40	<	3.59E+01	3.02E+01	4.00E+01
WNP-2	DISCH.	08/13/91	Mn-54		4.59E+00	3.65E+00	2.00E+00
WNP-2	DISCH.	08/13/91	Zn-65		2.56E+01	8.70E+00	5.00E+00
WNP-2	DISCH.	08/13/91	Zr-95	<	1.40E-01	2.00E+00	5.00E+00
WNP-2	DISCH.	09/04/91	Ba-140	<	-1.19E+01	1.43E+01	1.70E+01
WNP-2	DISCH.	09/04/91	Co-58	<	-1.00E+00	1.80E+00	2.00E+00
WNP-2	DISCH.	09/04/91	Co-60		2.14E+01	4.70E+00	3.00E+00
WNP-2	DISCH.	09/04/91	Cs-134	<	4.20E-01	1.68E+00	3.00E+00
WNP-2	DISCH.	09/04/91	Cs-137	<	1.02E+00	1.86E+00	3.00E+00
WNP-2	DISCH.	09/04/91	Fe-59	<	-3.00E-01	3.89E+00	5.00E+00
WNP-2	DISCH.	09/04/91	Gross Beta		1.06E+01	1.30E+00	1.00E+00
WNP-2	DISCH.	09/04/91	H-3		7.22E+02	1.01E+02	3.50E+02
WNP-2	DISCH.	09/04/91	Mn-54	<	-4.10E-01	1.71E+00	2.00E+00
WNP-2	DISCH.	09/04/91	Zn-65		1.88E+01	8.10E+00	5.00E+00
WNP-2	DISCH.	09/04/91	Zr-95	<	-2.10E-01	1.70E+00	5.00E+00
WNP-2	DISCH.	10/09/91	Ba-140	<	3.00E-01	1.29E+01	1.70E+01
WNP-2	DISCH.	10/09/91	Co-58	<	5.10E-01	1.48E+00	2.00E+00
WNP-2	DISCH.	10/09/91	Co-60		2.11E+01	3.60E+00	3.00E+00
WNP-2	DISCH.	10/09/91	Cs-134	<	7.90E-01	1.32E+00	3.00E+00
WNP-2	DISCH.	10/09/91	Cs-137		3.54E+00	1.65E+00	3.00E+00
WNP-2	DISCH.	10/09/91	Fe-59	<	-5.20E-01	3.26E+00	5.00E+00
WNP-2	DISCH.	10/09/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
WNP-2	DISCH.	10/09/91	H-3		1.36E+03	1.10E+02	3.50E+02
WNP-2	DISCH.	10/09/91	I-131	<	-4.00E-01	5.81E+00	3.00E+00
WNP-2	DISCH.	10/09/91	K-40	<	1.62E+01	2.69E+01	4.00E+01
WNP-2	DISCH.	10/09/91	Mn-54		2.95E+00	1.72E+00	2.00E+00
WNP-2	DISCH.	10/09/91	Zn-65	<	5.04E+00	5.78E+00	5.00E+00
WNP-2	DISCH.	10/09/91	Zr-95	<	-7.00E-02	1.44E+00	5.00E+00
WNP-2	DISCH.	12/03/91	Ba-140	<	-3.80E+00	2.11E+01	1.70E+01
WNP-2	DISCH.	12/03/91	Co-58	<	-9.40E-01	1.88E+00	2.00E+00
WNP-2	DISCH.	12/03/91	Co-60		3.46E+00	1.67E+00	3.00E+00
WNP-2	DISCH.	12/03/91	Cs-134	<	6.20E-01	1.50E+00	3.00E+00
WNP-2	DISCH.	12/03/91	Cs-137	<	-1.50E-01	1.55E+00	3.00E+00

TABLE A-3 CONTINUED

DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	DISCH.	12/03/91	Fe-59	<	8.10E-01	4.38E+00	5.00E+00
WNP-2	DISCH.	12/03/91	Gross Beta		7.00E+00	2.00E+00	1.00E+00
WNP-2	DISCH.	12/03/91	H-3		6.23E+02	9.90E+01	3.50E+02
WNP-2	DISCH.	12/03/91	I-131	<	7.90E+00	1.08E+01	3.00E+00
WNP-2	DISCH.	12/03/91	Mn-54	<	-1.00E-02	1.47E+00	2.00E+00
WNP-2	DISCH.	12/03/91	Zn-65	<	9.50E-01	3.69E+00	5.00E+00
WNP-2	DISCH.	12/03/91	Zr-95	<	4.80E-01	1.83E+00	5.00E+00

TABLE A-4

FISH ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	COLUMBIA R.	07/22/91	Total U	<	2.90E-03	5.00E-04	6.00E-03
HANFORD	COLUMBIA R.	07/22/91	Cs-137		3.07E-02	1.75E-02	2.00E-02
HANFORD	COLUMBIA R.	07/22/91	K-40		4.29E+00	3.30E-01	2.90E-01
HANFORD	COLUMBIA R.	07/22/91	Co-60	<	-5.00E-03	1.00E-02	1.00E-02
HANFORD	COLUMBIA R.	07/22/91	U-238	<	1.40E-03	2.00E-04	3.00E-03
HANFORD	COLUMBIA R.	07/22/91	U-234	<	1.30E-03	2.00E-04	5.00E-03
HANFORD	COLUMBIA R.	08/13/91	Total U	<	2.80E-03	3.00E-04	6.00E-03
HANFORD	COLUMBIA R.	08/13/91	Cs-137	<	8.00E-03	1.00E-02	2.00E-02
HANFORD	COLUMBIA R.	08/13/91	K-40		2.30E+00	9.00E-02	2.90E-01
HANFORD	COLUMBIA R.	08/13/91	Co-60	<	3.90E-03	5.70E-03	1.00E-02
HANFORD	COLUMBIA R.	08/13/91	U-238	<	1.30E-03	2.00E-04	3.00E-03
HANFORD	COLUMBIA R.	08/13/91	U-234	<	1.40E-03	2.00E-04	5.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	3.00E-03	2.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U	<	5.00E-03	2.00E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	7.00E-04	4.00E-04	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	9.00E-04	6.00E-04	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	4.00E-03	2.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U		1.80E-02	3.00E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	1.50E-03	3.00E-04	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	1.60E-03	9.00E-04	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-228	<	2.30E-03	4.00E-04	1.50E-01
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	5.00E-03	6.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U		3.80E-02	9.00E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	1.40E-03	1.20E-03	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	1.60E-03	3.30E-03	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	2.00E-03	1.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U		8.00E-03	2.00E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	-1.00E-04	3.00E-04	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	5.00E-04	9.00E-04	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	3.00E-03	2.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U		1.50E-02	3.00E-04	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	1.70E-03	5.00E-04	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	2.10E-03	7.00E-04	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-228	<	2.30E-03	7.00E-04	1.50E-01
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	3.00E-03	3.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U	<	1.00E-04	2.30E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232	<	9.00E-04	8.00E-04	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	5.00E-04	1.80E-03	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Ra-226	<	5.00E-03	2.00E-03	7.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Total U		2.30E-02	3.00E-03	6.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-232		5.20E-03	1.10E-03	3.00E-03
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-230	<	3.90E-03	1.20E-03	1.30E-02
STEVENS CO.	CHAMOKANE CR.	05/31/91	Th-228	<	6.60E-03	1.30E-03	1.50E-01
WNP-2	STATION 30	04/29/91	Cs-134	<	-1.74E-03	5.73E-03	2.00E-02
WNP-2	STATION 30	04/29/91	Cs-137	<	1.73E-02	5.70E-03	2.00E-02
WNP-2	STATION 30	04/29/91	Zn-65	<	-1.13E-02	1.56E-02	3.00E-02
WNP-2	STATION 30	04/29/91	K-40		3.45E+00	2.20E-01	2.90E-01
WNP-2	STATION 30	04/29/91	Mn-54	<	5.95E-03	5.99E-03	1.00E-02

TABLE A-4 CONTINUED

FISH ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 30	04/29/91	Co-60	<	4.44E-03	6.83E-03	1.00E-02
WNP-2	STATION 30	04/29/91	Co-58	<	3.00E-05	6.98E-03	1.00E-02
WNP-2	STATION 30	04/29/91	Fe-59	<	3.70E-03	1.65E-02	1.00E-01
WNP-2	STATION 30	09/23/91	Cs-134	<	-4.80E-03	6.90E-03	2.00E-02
WNP-2	STATION 30	09/23/91	Cs-137	<	8.00E-03	6.60E-03	2.00E-02
WNP-2	STATION 30	09/23/91	Zn-65	<	0.00E+00	2.00E-02	3.00E-02
WNP-2	STATION 30	09/23/91	K-40		3.33E+00	1.90E-01	2.90E-01
WNP-2	STATION 30	09/23/91	Mn-54	<	9.00E-04	7.00E-03	1.00E-02
WNP-2	STATION 30	09/23/91	Co-60		1.10E-02	7.00E-03	1.00E-02
WNP-2	STATION 30	09/23/91	Co-58	<	-3.80E-03	7.00E-03	1.00E-02
WNP-2	STATION 30	09/23/91	Fe-59	<	1.50E-02	1.60E-02	1.00E-01

TABLE A-5

FOOD ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)
(Tritium pCi/l ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	TEST		RESULT	ERROR	LLD
			APPLES				
HANFORD	SUNNYSIDE	10/18/91	H-3	<	8.40E+01	9.50E+01	3.50E+02
HANFORD	SUNNYSIDE	10/18/91	Sr-90	<	2.00E-03	6.00E-03	1.00E-03
HANFORD	SUNNYSIDE	10/18/91	Cs-137	<	-1.40E-03	7.20E-03	2.00E-02
HANFORD	RINGOLD	09/23/91	H-3	<	4.70E+01	9.10E+01	3.50E+02
HANFORD	RINGOLD	09/23/91	Sr-90	<	-1.00E-03	2.00E-03	1.00E-03
HANFORD	RINGOLD	09/23/91	Cs-137	<	-9.00E-03	1.00E-02	2.00E-02
			APRICOTS				
HANFORD	100F-7501	07/09/91	Cs-137	<	2.00E-04	6.80E-03	2.00E-02
HANFORD	100F-7501	07/09/91	H-3	<	1.22E+02	1.10E+02	3.50E+02
HANFORD	100F-7501	07/09/91	Sr-90	<	1.00E-03	8.00E-03	1.00E-03
HANFORD	100F-7501	07/09/91	K-40		3.88E+00	2.40E-01	2.90E-01
HANFORD	100F-7501	07/09/91	Tc-99	<	5.00E-02	6.00E-02	1.00E-01
			BEET TOPS				
HANFORD	SUNNYSIDE	06/05/91	Cs-137	<	8.20E-03	7.50E-03	4.00E-02
HANFORD	SUNNYSIDE	06/05/91	H-3	<	-6.60E+01	9.40E+01	3.50E+02
HANFORD	SUNNYSIDE	06/05/91	Sr-90		3.00E-03	1.60E-02	1.00E-03
HANFORD	SUNNYSIDE	06/05/91	K-40		4.20E+00	2.80E-01	3.00E-01
			CABBAGE				
WNP-2	PASCO-FARM	06/18/91	Cs-137	<	4.94E-03	6.35E-03	2.00E-02
WNP-2	PASCO-FARM	06/18/91	I-131	<	7.0E-03	1.27E-02	2.00E-02
WNP-2	PASCO-FARM	06/18/91	Cs-134	<	-4.20E-03	6.70E-03	2.00E-02

TABLE A-5 CONTINUED

FOOD ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)
(Tritium pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	TEST		RESULT	ERROR	LLD
			CHERRIES				
HANFORD	RINGOLD	06/24/91	Cs-137	<	-3.20E-03	5.30E-03	2.00E-02
HANFORD	RINGOLD	06/24/91	H-3	<	-4.40E+01	8.70E+01	3.50E+02
HANFORD	RINGOLD	06/24/91	Sr-90		2.00E-03	9.00E-03	1.00E-03
HANFORD	RINGOLD	06/24/91	K-40		2.56E+00	2.30E-01	2.90E-01
HANFORD	SUNNYSIDE	06/24/91	H-3	<	-5.10E+01	8.70E+01	3.50E+02
HANFORD	SUNNYSIDE	06/24/91	Cs-137	<	1.30E-03	5.70E-03	2.00E-02
HANFORD	SUNNYSIDE	06/24/91	Sr-90	<	0.00E+00	1.20E-02	1.00E-03
HANFORD	SUNNYSIDE	06/24/91	K-40		2.73E+00	2.20E-01	2.90E-01
			GRAPES				
HANFORD	SAGEMOOR	10/03/91	Cs-137	<	5.00E-04	7.90E-03	2.00E-02
HANFORD	SAGEMOOR	10/03/91	Sr-90		2.00E-03	2.20E-02	1.00E-03
HANFORD	SAGEMOOR	10/03/91	H-3	<	1.14E+02	9.10E+01	3.50E+02
HANFORD	SUNNYSIDE	10/18/91	Cs-137	<	-3.70E-03	7.90E-03	2.00E-02
HANFORD	SUNNYSIDE	10/18/91	H-3	<	-6.70E+01	8.50E+01	3.50E+02
HANFORD	SUNNYSIDE	10/18/91	Sr-90	<	-1.00E-03	2.10E-02	1.00E-03
			LEAFY VEGETAGLES				
HANFORD	MOSES LAKE	07/25/91	Cs-137	<	-5.40E-03	1.06E-02	2.00E-02
HANFORD	MOSES LAKE	07/25/91	K-40		1.92E+00	3.40E-01	2.90E-01
HANFORD	MOSES LAKE	07/25/91	Sr-90		1.80E-02	1.10E-02	1.00E-03
HANFORD	MOSES LAKE	07/25/91	H-3	<	1.21E+02	8.90E+01	3.50E+02
			MELONS				
HANFORD	RIVERVIEW	08/07/91	H-3	<	4.30E+01	8.80E+01	3.50E+02
HANFORD	RIVERVIEW	08/07/91	Sr-90	<	7.00E-03	9.00E-03	1.00E-03
HANFORD	RIVERVIEW	08/07/91	Cs-137	<	-3.70E-04	6.63E-03	2.00E-02

TABLE A-5 CONTINUED

FOOD ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)
(Tritium pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	TEST		RESULT	ERROR	LLD
HANFORD	RIVERVIEW	08/07/91	K-40		4.44E+00	2.20E-01	2.90E-01
			POTATOES				
HANFORD	HORN RAPIDS	08/07/91	K-40		4.17E+00	2.30E-01	2.90E-01
HANFORD	HORN RAPIDS	08/07/91	Cs-137	<	-1.10E-03	6.50E-03	2.00E-02
HANFORD	HORN RAPIDS	08/07/91	Sr-90		1.40E-02	1.00E-02	1.00E-03
HANFORD	SUNNYSIDE	08/07/91	Cs-137	<	-5.00E-03	1.10E-02	2.00E-02
HANFORD	SUNNYSIDE	08/07/91	K-40		4.38E+00	3.80E-01	2.90E-01
HANFORD	SUNNYSIDE	08/07/91	Sr-90	<	0.00E+00	9.00E-03	1.00E-03
			WHEAT				
VANCOUVER	PORT OF VAN.	04/05/91	Cs-137	<	-3.50E-03	5.60E-03	2.00E-02
VANCOUVER	PORT OF VAN.	04/05/91	K-40		3.60E+00	3.00E-01	2.90E-01
VANCOUVER	PORT OF VAN.	12/16/91	Cs-134	<	2.53E-03	5.37E-03	2.00E-02
VANCOUVER	PORT OF VAN.	12/16/91	Cs-137	<	3.14E-03	5.82E-03	2.00E-02
VANCOUVER	PORT OF VAN.	12/16/91	K-40		3.71E+00	3.20E-01	2.90E-01
VANCOUVER	PORT OF VAN.	12/22/91	Cs-137	<	5.30E-04	4.93E-03	2.00E-02
VANCOUVER	PORT OF VAN.	12/22/91	Cs-134	<	-5.71E-03	5.27E-03	2.00E-02
VANCOUVER	PORT OF VAN.	12/22/91	K-40		3.31E+00	3.00E-01	2.90E-01
VANCOUVER	PORT OF VAN.	11/29/91	K-40		4.00E+00	3.20E-01	2.90E-01
VANCOUVER	PORT OF VAN.	11/29/91	Cs-137	<	-2.30E-03	6.15E-03	2.00E-02
VANCOUVER	PORT OF VAN.	06/12/91	K-40		3.84E+00	3.30E-01	2.90E-01
VANCOUVER	PORT OF VAN.	06/12/91	Cs-137	<	1.09E-02	6.60E-03	2.00E-02
VANCOUVER	PORT OF VAN.	06/12/91	K-40		3.94E+00	2.80E-01	2.90E-01
VANCOUVER	PORT OF VAN.	06/12/91	Cs-137	<	-4.59E-03	6.05E-03	2.00E-02
VANCOUVER	PORT OF VAN.	04/05/91	Cs-137	<	8.00E-04	6.30E-03	2.00E-02
VANCOUVER	PORT OF VAN.	04/05/91	K-40		4.00E+00	3.00E-01	2.90E-01

TABLE A-6

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
DMC	GW1	05/21/91	Condct.		2.05E+03	1.00E+02	0.00E+00
DMC	GW1	05/21/91	Ra-226	<	4.70E-02	8.00E-02	7.00E-02
DMC	GW1	05/21/91	TDS		1.76E+03	9.00E+01	0.00E+00
DMC	GW1	05/21/91	Th-230	<	-4.00E-02	6.00E-02	1.00E-01
DMC	GW1	05/21/91	Total U		5.93E+01	2.30E+00	2.00E-01
DMC	GW1	09/18/91	Condct.		2.14E+03	1.10E+02	0.00E+00
DMC	GW1	09/18/91	Ra-226	<	-7.00E-03	1.30E-01	7.00E-02
DMC	GW1	09/18/91	TDS		1.88E+03	9.00E+01	0.00E+00
DMC	GW1	09/18/91	Th-230	<	3.78E-02	6.64E-02	1.00E-01
DMC	GW1	09/18/91	Total U		6.89E+01	1.70E+00	2.00E-01
DMC	GW2	05/21/91	Condct.		3.29E+03	1.60E+02	0.00E+00
DMC	GW2	05/21/91	Ra-226		4.89E-01	1.70E-01	7.00E-02
DMC	GW2	05/21/91	TDS		3.44E+03	1.70E+02	0.00E+00
DMC	GW2	05/21/91	Th-230	<	0.00E+00	7.00E-02	1.00E-01
DMC	GW2	05/21/91	Total U		8.47E+01	2.90E+00	2.00E-01
DMC	GW2	09/18/91	Condct.		3.23E+03	1.60E+02	0.00E+00
DMC	GW2	09/18/91	Ra-226	<	2.00E-02	1.44E-01	7.00E-02
DMC	GW2	09/18/91	TDS		3.34E+03	1.70E+02	0.00E+00
DMC	GW2	09/18/91	Th-230	<	-1.10E-02	7.50E-02	1.00E-01
DMC	GW2	09/18/91	Total U		7.56E+01	1.70E+00	2.00E-01
DMC	GW6	05/21/91	Condct.		3.60E+02	1.80E+01	0.00E+00
DMC	GW6	05/21/91	Ra-226		2.94E-01	1.40E-01	7.00E-02
DMC	GW6	05/21/91	TDS		2.00E+02	1.00E+01	0.00E+00
DMC	GW6	05/21/91	Th-230	<	1.00E-02	7.00E-02	1.00E-01
DMC	GW6	05/21/91	Total U		3.70E+00	4.00E-01	2.00E-01
DMC	GW6	09/18/91	Condct.		3.70E+02	1.90E+01	0.00E+00
DMC	GW6	09/18/91	Ra-226	<	-9.20E-02	1.14E-01	7.00E-02
DMC	GW6	09/18/91	TDS		2.00E+02	1.00E+01	0.00E+00
DMC	GW6	09/18/91	Th-230	<	5.10E-03	8.19E-02	1.00E-01
DMC	GW6	09/18/91	Total U		3.54E+00	4.30E-01	2.00E-01
DMC	SW2D	09/18/91	Condct.		3.06E+03	1.50E+02	0.00E+00
DMC	SW2D	09/18/91	Ra-226	<	-5.30E-02	1.24E-01	7.00E-02
DMC	SW2D	09/18/91	TDS		3.06E+03	1.50E+02	0.00E+00
DMC	SW2D	09/18/91	Th-230	<	4.80E-02	6.70E-02	1.00E-01
DMC	SW2D	09/18/91	Total U		2.75E+02	7.00E+00	2.00E-01
HANFORD	1-H4-4	01/16/91	Co-58	<	-5.00E-01	1.00E+00	2.00E+00
HANFORD	1-H4-4	01/16/91	Co-60	<	-4.00E-01	1.00E+00	3.00E+00
HANFORD	1-H4-4	01/16/91	Cr-51	<	6.00E+00	1.40E+01	3.00E+01
HANFORD	1-H4-4	01/16/91	Cs-134	<	-5.00E-01	9.00E-01	3.00E+00
HANFORD	1-H4-4	01/16/91	Cs-137	<	-2.00E-01	1.00E+00	3.00E+00
HANFORD	1-H4-4	01/16/91	Fe-59	<	-2.00E-01	3.00E+00	5.00E+00
HANFORD	1-H4-4	01/16/91	Gross Alpha		3.60E+01	1.10E+01	4.00E+00
HANFORD	1-H4-4	01/16/91	Gross Beta		1.98E+02	5.00E+00	1.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	1-H4-4	01/16/91	H-3		1.33E+03	1.10E+02	3.50E+02
HANFORD	1-H4-4	01/16/91	K-40		5.50E+01	2.00E+01	4.00E+01
HANFORD	1-H4-4	01/16/91	Mn-54	<	-9.00E-01	9.00E-01	2.00E+00
HANFORD	1-H4-4	01/16/91	NO2+NO3		2.34E+02	1.20E+01	1.00E+00
HANFORD	1-H4-4	01/16/91	Ra-226	<	7.90E-02	1.19E-01	7.00E-02
HANFORD	1-H4-4	01/16/91	Ru-106	<	-5.00E+00	9.00E+00	2.10E+01
HANFORD	1-H4-4	01/16/91	Sr-89	<	-3.00E-01	3.80E+00	7.00E-01
HANFORD	1-H4-4	01/16/91	Sr-90		2.50E+00	6.00E-01	7.00E-01
HANFORD	1-H4-4	01/16/91	Total U		3.72E+01	2.20E+00	2.00E-01
HANFORD	1-H4-4	01/16/91	U-234		1.99E+01	1.60E+00	1.00E-01
HANFORD	1-H4-4	01/16/91	U-238		1.35E+01	1.30E+00	7.00E-02
HANFORD	1-H4-4	01/16/91	Zn-65	<	-5.00E-01	2.00E+00	5.00E+00
HANFORD	1-H4-4	01/16/91	Zr-95	<	2.00E-01	1.00E+00	5.00E+00
HANFORD	1-H4-4	03/28/91	Co-58	<	6.00E-01	1.40E+00	2.00E+00
HANFORD	1-H4-4	03/28/91	Co-60	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	1-H4-4	03/28/91	Cr-51	<	-1.00E+01	3.00E+01	3.00E+01
HANFORD	1-H4-4	03/28/91	Cs-134	<	7.00E-01	1.00E+00	3.00E+00
HANFORD	1-H4-4	03/28/91	Cs-137	<	-4.00E-01	1.00E+00	3.00E+00
HANFORD	1-H4-4	03/28/91	Fe-59	<	-3.00E+00	3.00E+00	5.00E+00
HANFORD	1-H4-4	03/28/91	Gross Alpha	<	4.00E+00	3.00E+00	4.00E+00
HANFORD	1-H4-4	03/28/91	Gross Beta		1.30E+01	1.00E+00	1.00E+00
HANFORD	1-H4-4	03/28/91	H-3		1.02E+03	1.30E+02	3.50E+02
HANFORD	1-H4-4	03/28/91	Mn-54	<	1.00E+00	1.00E+00	2.00E+00
HANFORD	1-H4-4	03/28/91	NO2+NO3		2.40E+01	1.00E+00	1.00E+00
HANFORD	1-H4-4	03/28/91	Ru-106	<	4.00E+00	9.00E+00	2.10E+01
HANFORD	1-H4-4	03/28/91	Total U		3.70E+00	6.00E-01	2.00E-01
HANFORD	1-H4-4	03/28/91	U-234		2.00E+00	5.00E-01	1.00E-01
HANFORD	1-H4-4	03/28/91	U-238		1.50E+00	4.00E-01	7.00E-02
HANFORD	1-H4-4	03/28/91	Zn-65	<	1.00E+00	2.00E+00	5.00E+00
HANFORD	1-H4-4	03/28/91	Zr-95	<	4.00E-01	1.40E+00	5.00E+00
HANFORD	1-H4-4	06/06/91	Co-58	<	4.00E-01	1.60E+00	2.00E+00
HANFORD	1-H4-4	06/06/91	Co-60	<	-7.00E-01	1.10E+00	3.00E+00
HANFORD	1-H4-4	06/06/91	Cr-51	<	0.00E+00	3.50E+01	3.00E+01
HANFORD	1-H4-4	06/06/91	Cs-134	<	9.00E-01	1.00E+00	3.00E+00
HANFORD	1-H4-4	06/06/91	Cs-137	<	-6.00E-01	1.10E+00	3.00E+00
HANFORD	1-H4-4	06/06/91	Fe-59	<	3.00E+00	4.00E+00	5.00E+00
HANFORD	1-H4-4	06/06/91	Gross Alpha	<	3.00E+00	3.00E+00	4.00E+00
HANFORD	1-H4-4	06/06/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	1-H4-4	06/06/91	H-3		4.30E+02	9.60E+01	3.50E+02
HANFORD	1-H4-4	06/06/91	Mn-54	<	3.00E-01	1.00E+00	2.00E+00
HANFORD	1-H4-4	06/06/91	NO2+NO3		1.10E+01	1.00E+00	1.00E+00
HANFORD	1-H4-4	06/06/91	Ru-106	<	6.30E+00	9.80E+00	2.10E+01
HANFORD	1-H4-4	06/06/91	Total U		1.43E+00	2.50E-01	2.00E-01
HANFORD	1-H4-4	06/06/91	U-234		7.59E-01	1.79E-01	1.00E-01
HANFORD	1-H4-4	06/06/91	U-238		5.01E-01	1.42E-01	7.00E-02
HANFORD	1-H4-4	06/06/91	Zn-65	<	-2.00E-01	2.40E+00	5.00E+00
HANFORD	1-H4-4	06/06/91	Zr-95	<	-2.00E-01	1.60E+00	5.00E+00
HANFORD	1-H4-4	09/18/91	Co-60	<	1.30E+00	1.50E+00	3.00E+00
HANFORD	1-H4-4	09/18/91	Cs-137	<	1.00E-01	1.30E+00	3.00E+00
HANFORD	1-H4-4	09/18/91	Gross Alpha		9.90E+01	2.20E+01	4.00E+00
HANFORD	1-H4-4	09/18/91	Gross Beta		4.01E+02	7.00E+00	1.00E+00
HANFORD	1-H4-4	09/18/91	H-3		2.62E+03	1.30E+02	3.50E+02
HANFORD	1-H4-4	09/18/91	NO2+NO3		3.29E+02	1.60E+01	1.00E+00
HANFORD	1-H4-4	09/18/91	Tc-99		1.12E+03	1.10E+02	5.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	1-H4-4	09/18/91	Total U		9.19E+01	1.60E+00	2.00E-01
HANFORD	1-H4-4	09/18/91	U-234		4.62E+01	1.10E+01	1.00E-01
HANFORD	1-H4-4	09/18/91	U-236		3.50E+00	3.00E-01	2.00E+00
HANFORD	1-H4-4	09/18/91	U-238		3.55E+01	1.00E+00	7.00E-02
HANFORD	1-H4-4	12/03/91	Co-60	<	1.21E+00	1.17E+00	3.00E+00
HANFORD	1-H4-4	12/03/91	Cs-137	<	-5.68E-01	9.94E-01	3.00E+00
HANFORD	1-H4-4	12/03/91	Gross Alpha		1.08E+02	2.20E+01	4.00E+00
HANFORD	1-H4-4	12/03/91	Gross Beta		4.10E+02	7.00E+00	1.00E+00
HANFORD	1-H4-4	12/03/91	H-3		3.16E+03	1.40E+02	3.50E+02
HANFORD	1-H4-4	12/03/91	NO2+NO3		2.72E+02	1.40E+01	1.00E+00
HANFORD	1-H4-4	12/03/91	Sr-90		5.90E+00	9.00E-01	7.00E-01
HANFORD	1-H4-4	12/03/91	Tc-99		1.30E+03	1.30E+02	5.00E+00
HANFORD	1-H4-4	12/03/91	Total U		8.10E+01	2.10E+00	2.00E-01
HANFORD	1-H4-4	12/03/91	U-234		4.31E+01	1.50E+00	1.00E-01
HANFORD	1-H4-4	12/03/91	U-236		2.10E+00	3.00E-01	2.00E+00
HANFORD	1-H4-4	12/03/91	U-238		3.20E+01	1.30E+00	7.00E-02
HANFORD	1-N-14	01/17/91	Co-58	<	0.00E+00	1.40E+00	2.00E+00
HANFORD	1-N-14	01/17/91	Co-60		1.10E+01	2.00E+00	3.00E+00
HANFORD	1-N-14	01/17/91	Cr-51	<	-1.30E+00	2.00E+00	3.00E+01
HANFORD	1-N-14	01/17/91	Cs-134	<	-1.60E+00	1.50E+00	3.00E+00
HANFORD	1-N-14	01/17/91	Cs-137	<	-5.00E-01	1.40E+00	3.00E+00
HANFORD	1-N-14	01/17/91	Fe-59	<	9.00E-01	3.50E+00	5.00E+00
HANFORD	1-N-14	01/17/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	1-N-14	01/17/91	Gross Beta		2.17E+03	3.00E+01	1.00E+00
HANFORD	1-N-14	01/17/91	H-3		5.73E+04	5.00E+02	3.50E+02
HANFORD	1-N-14	01/17/91	Mn-54	<	9.00E-01	1.30E+00	2.00E+00
HANFORD	1-N-14	01/17/91	NO2+NO3		1.00E+01	5.00E-01	1.00E+00
HANFORD	1-N-14	01/17/91	Ru-106	<	0.00E+00	1.20E+01	2.10E+01
HANFORD	1-N-14	01/17/91	Sb-125		2.70E+01	6.00E+00	7.00E+00
HANFORD	1-N-14	01/17/91	Sr-89	<	-3.00E+02	2.00E+02	7.00E-01
HANFORD	1-N-14	01/17/91	Sr-90		1.18E+03	4.00E+01	7.00E-01
HANFORD	1-N-14	01/17/91	Zn-65	<	-1.40E+00	2.80E+00	5.00E+00
HANFORD	1-N-14	01/17/91	Zr-95	<	0.00E+00	1.40E+00	5.00E+00
HANFORD	1-N-14	03/28/91	Co-58	<	2.00E-01	1.50E+00	2.00E+00
HANFORD	1-N-14	03/28/91	Co-60		8.90E+00	2.20E+00	3.00E+00
HANFORD	1-N-14	03/28/91	Cr-51	<	-2.00E+00	2.70E+01	3.00E+01
HANFORD	1-N-14	03/28/91	Cs-134	<	-4.00E+00	2.00E+00	3.00E+00
HANFORD	1-N-14	03/28/91	Cs-137	<	-1.00E+00	1.00E+00	3.00E+00
HANFORD	1-N-14	03/28/91	Fe-59	<	3.00E+00	4.00E+00	5.00E+00
HANFORD	1-N-14	03/28/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	1-N-14	03/28/91	Gross Beta		2.04E+03	3.00E+01	1.00E+00
HANFORD	1-N-14	03/28/91	H-3		6.84E+04	5.00E+02	3.50E+02
HANFORD	1-N-14	03/28/91	Mn-54	<	-1.00E+00	1.00E+00	2.00E+00
HANFORD	1-N-14	03/28/91	NO2+NO3		1.00E+01	1.00E+00	1.00E+00
HANFORD	1-N-14	03/28/91	Ru-106	<	-1.00E+00	1.00E+00	2.10E+01
HANFORD	1-N-14	03/28/91	Sb-125		2.30E+01	5.00E+00	7.00E+00
HANFORD	1-N-14	03/28/91	Sr-90		1.04E+03	1.00E+01	7.00E-01
HANFORD	1-N-14	03/28/91	Zn-65	<	-2.00E-01	2.60E+00	5.00E+00
HANFORD	1-N-14	03/28/91	Zr-95	<	2.00E-01	1.40E+00	5.00E+00
HANFORD	1-N-14	09/18/91	Co-60		7.59E+00	2.49E+00	3.00E+00
HANFORD	1-N-14	09/18/91	Cs-137	<	-1.07E+00	1.18E+00	3.00E+00
HANFORD	1-N-14	09/18/91	Gross Alpha	<	3.00E+00	3.00E+00	4.00E+00
HANFORD	1-N-14	09/18/91	Gross Beta		2.10E+03	3.00E+01	1.00E+00
HANFORD	1-N-14	09/18/91	H-3		7.78E+04	6.00E+02	3.50E+02

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	1-N-14	09/18/91	NO2+NO3		9.70E+00	5.00E-01	1.00E+00
HANFORD	1-N-14	09/18/91	Sb-125		2.58E+01	6.70E+00	7.00E+00
HANFORD	1-N-14	09/18/91	Sr-89	<	-2.00E+02	2.00E+02	7.00E-01
HANFORD	1-N-14	09/18/91	Sr-90		9.39E+02	1.30E+01	7.00E-01
HANFORD	1-N-14	12/05/91	Co-60		5.90E+00	2.70E+00	3.00E+00
HANFORD	1-N-14	12/05/91	Cs-137	<	1.00E+00	1.30E+00	3.00E+00
HANFORD	1-N-14	12/05/91	Gross Alpha		5.00E+00	3.00E+00	4.00E+00
HANFORD	1-N-14	12/05/91	Gross Beta		2.31E+03	3.00E+01	1.00E+00
HANFORD	1-N-14	12/05/91	H-3		8.20E+04	6.00E+02	3.50E+02
HANFORD	1-N-14	12/05/91	NO2+NO3		1.00E+01	1.00E+00	1.00E+00
HANFORD	1-N-14	12/05/91	Sb-125		2.30E+01	8.00E+00	7.00E+00
HANFORD	1-N-14	12/05/91	Sr-89	<	-1.75E+02	6.90E+01	7.00E-01
HANFORD	1-N-14	12/05/91	Sr-90		1.08E+03	2.00E+01	7.00E-01
HANFORD	1-N-3	02/05/91	Co-58	<	7.00E-01	2.60E+00	2.00E+00
HANFORD	1-N-3	02/05/91	Co-60		7.70E+00	2.50E+00	3.00E+00
HANFORD	1-N-3	02/05/91	Cr-51	<	-1.90E+01	1.81E+02	3.00E+01
HANFORD	1-N-3	02/05/91	Cs-134	<	-9.00E-01	1.00E+00	3.00E+00
HANFORD	1-N-3	02/05/91	Cs-137	<	2.00E-01	9.00E-01	3.00E+00
HANFORD	1-N-3	02/05/91	Fe-59	<	6.00E+00	1.00E+01	5.00E+00
HANFORD	1-N-3	02/05/91	Gross Alpha	<	2.00E+00	3.00E+00	4.00E+00
HANFORD	1-N-3	02/05/91	Gross Beta		1.23E+03	2.00E+01	1.00E+00
HANFORD	1-N-3	02/05/91	H-3		2.13E+04	3.00E+02	3.50E+02
HANFORD	1-N-3	02/05/91	K-40	<	3.60E+00	1.90E+01	4.00E+01
HANFORD	1-N-3	02/05/91	Mn-54	<	7.00E-01	1.20E+00	2.00E+00
HANFORD	1-N-3	02/05/91	NO2+NO3		1.08E+01	6.00E-01	1.00E+00
HANFORD	1-N-3	02/05/91	Ru-106	<	5.00E+00	1.00E+01	2.10E+01
HANFORD	1-N-3	02/05/91	Sr-89	<	-2.30E+02	1.20E+02	7.00E-01
HANFORD	1-N-3	02/05/91	Sr-90		6.80E+02	2.00E+01	7.00E-01
HANFORD	1-N-3	02/05/91	Zn-65	<	1.00E+00	3.00E+00	5.00E+00
HANFORD	1-N-3	02/05/91	Zr-95	<	-4.00E+00	3.00E+00	5.00E+00
HANFORD	1-N-3	04/10/91	Co-58		2.90E+00	2.70E+00	2.00E+00
HANFORD	1-N-3	04/10/91	Co-60		7.90E+00	1.60E+00	3.00E+00
HANFORD	1-N-3	04/10/91	Cr-51	<	6.00E+01	2.20E+02	3.00E+01
HANFORD	1-N-3	04/10/91	Cs-134	<	-8.00E-01	1.00E+00	3.00E+00
HANFORD	1-N-3	04/10/91	Cs-137	<	4.30E-01	9.20E-01	3.00E+00
HANFORD	1-N-3	04/10/91	Fe-59	<	8.00E+00	1.30E+01	5.00E+00
HANFORD	1-N-3	04/10/91	Gross Alpha	<	1.00E+00	3.00E+00	4.00E+00
HANFORD	1-N-3	04/10/91	Gross Beta		1.23E+03	2.00E+01	1.00E+00
HANFORD	1-N-3	04/10/91	H-3		2.24E+04	3.00E+02	3.50E+02
HANFORD	1-N-3	04/10/91	Mn-54	<	2.00E-01	1.20E+00	2.00E+00
HANFORD	1-N-3	04/10/91	NO2+NO3		1.90E+01	1.00E+00	1.00E+00
HANFORD	1-N-3	04/10/91	Ru-106	<	1.10E+00	9.90E+00	2.10E+01
HANFORD	1-N-3	04/10/91	Sb-125	<	6.60E+00	4.80E+00	7.00E+00
HANFORD	1-N-3	04/10/91	Sr-90		6.20E+02	1.00E+01	7.00E-01
HANFORD	1-N-3	04/10/91	Zn-65	<	-1.70E+00	2.50E+00	5.00E+00
HANFORD	1-N-3	04/10/91	Zr-95	<	1.20E+00	3.20E+00	5.00E+00
HANFORD	1-N-3	12/05/91	Co-60		5.10E+00	2.30E+00	3.00E+00
HANFORD	1-N-3	12/05/91	Cs-137	<	-1.00E-01	1.30E+00	3.00E+00
HANFORD	1-N-3	12/05/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	1-N-3	12/05/91	Gross Beta		1.32E+03	3.00E+01	1.00E+00
HANFORD	1-N-3	12/05/91	H-3		2.10E+04	3.00E+02	3.50E+02
HANFORD	1-N-3	12/05/91	K-40		6.96E+01	2.78E+01	4.00E+01
HANFORD	1-N-3	12/05/91	NO2+NO3		2.00E+01	1.00E+00	1.00E+00
HANFORD	1-N-3	12/05/91	Sb-125		8.30E+00	5.40E+00	7.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	1-N-3	12/05/91	Sr-90		6.33E+02	1.00E+01	7.00E-01
HANFORD	1-N-32	04/10/91	Co-58	<	1.00E-01	1.80E+00	2.00E+00
HANFORD	1-N-32	04/10/91	Co-60		2.30E+01	4.00E+00	3.00E+00
HANFORD	1-N-32	04/10/91	Cr-51	<	6.00E+00	2.70E+01	3.00E+01
HANFORD	1-N-32	04/10/91	Cs-134	<	-3.00E+00	2.00E+00	3.00E+00
HANFORD	1-N-32	04/10/91	Cs-137	<	1.20E+00	1.60E+00	3.00E+00
HANFORD	1-N-32	04/10/91	Fe-59	<	6.00E-01	3.80E+00	5.00E+00
HANFORD	1-N-32	04/10/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	1-N-32	04/10/91	Gross Beta		4.60E+01	2.00E+00	1.00E+00
HANFORD	1-N-32	04/10/91	H-3		1.14E+05	1.00E+03	3.50E+02
HANFORD	1-N-32	04/10/91	Mn-54	<	-5.00E-01	1.60E+00	2.00E+00
HANFORD	1-N-32	04/10/91	NO2+NO3		1.40E+01	1.00E+00	1.00E+00
HANFORD	1-N-32	04/10/91	Ru-106	<	5.00E+00	1.30E+01	2.10E+01
HANFORD	1-N-32	04/10/91	Sb-125		2.50E+01	8.00E+00	7.00E+00
HANFORD	1-N-32	04/10/91	Sr-90		5.00E+00	7.00E-01	7.00E-01
HANFORD	1-N-32	04/10/91	Zn-65	<	3.00E+00	3.00E+00	5.00E+00
HANFORD	1-N-32	04/10/91	Zr-95	<	2.00E+00	2.00E+00	5.00E+00
HANFORD	1-N-32	09/18/91	Co-60		1.52E+01	2.50E+00	3.00E+00
HANFORD	1-N-32	09/18/91	Cs-137	<	0.00E+00	9.40E-01	3.00E+00
HANFORD	1-N-32	09/18/91	Gross Alpha	<	2.00E+00	2.00E+00	4.00E+00
HANFORD	1-N-32	09/18/91	Gross Beta		4.70E+01	2.00E+00	1.00E+00
HANFORD	1-N-32	09/18/91	H-3		9.90E+04	6.00E+02	3.50E+02
HANFORD	1-N-32	09/18/91	K-40	<	3.21E+01	1.80E+01	4.00E+01
HANFORD	1-N-32	09/18/91	NO2+NO3		1.47E+01	8.00E-01	1.00E+00
HANFORD	1-N-32	09/18/91	Sb-125		1.93E+01	2.70E+00	7.00E+00
HANFORD	1-N-32	09/18/91	Sr-89	<	-4.00E+00	1.00E+01	7.00E-01
HANFORD	1-N-32	09/18/91	Sr-90		5.40E+00	7.00E-01	7.00E-01
HANFORD	1-N-32	12/05/91	Co-60		2.30E+01	3.00E+00	3.00E+00
HANFORD	1-N-32	12/05/91	Cs-137	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	1-N-32	12/05/91	Gross Alpha	<	2.00E+00	3.00E+00	4.00E+00
HANFORD	1-N-32	12/05/91	Gross Beta		4.30E+01	2.00E+00	1.00E+00
HANFORD	1-N-32	12/05/91	H-3		1.03E+05	1.00E+03	3.50E+02
HANFORD	1-N-32	12/05/91	NO2+NO3		2.00E+01	1.00E+00	1.00E+00
HANFORD	1-N-32	12/05/91	Sb-125		2.00E+01	5.00E+00	7.00E+00
HANFORD	1-N-32	12/05/91	Sr-89	<	1.18E+00	2.19E+00	7.00E-01
HANFORD	1-N-32	12/05/91	Sr-90		3.52E+00	6.70E-01	7.00E-01
HANFORD	1-N-70	01/17/91	Co-58	<	-1.30E+00	1.70E+00	2.00E+00
HANFORD	1-N-70	01/17/91	Co-60		1.20E+01	3.00E+00	3.00E+00
HANFORD	1-N-70	01/17/91	Cr-51	<	-1.10E+01	2.00E+01	3.00E+01
HANFORD	1-N-70	01/17/91	Cs-134	<	-1.50E+00	1.70E+00	3.00E+00
HANFORD	1-N-70	01/17/91	Cs-137	<	-3.00E-01	1.50E+00	3.00E+00
HANFORD	1-N-70	01/17/91	Fe-59	<	3.20E+00	3.50E+00	5.00E+00
HANFORD	1-N-70	01/17/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	1-N-70	01/17/91	Gross Beta		1.40E+01	1.00E+00	1.00E+00
HANFORD	1-N-70	01/17/91	H-3		4.81E+04	5.00E+02	3.50E+02
HANFORD	1-N-70	01/17/91	Mn-54	<	4.00E-01	1.60E+00	2.00E+00
HANFORD	1-N-70	01/17/91	NO2+NO3		1.16E+01	6.00E-01	1.00E+00
HANFORD	1-N-70	01/17/91	Ru-106	<	4.00E+00	1.40E+01	2.10E+01
HANFORD	1-N-70	01/17/91	Zn-65	<	-2.60E+00	3.10E+00	5.00E+00
HANFORD	1-N-70	01/17/91	Zr-95	<	1.00E-01	1.70E+00	5.00E+00
HANFORD	2-W22-20	01/18/91	Co-58	<	-4.00E-01	2.00E+00	2.00E+00
HANFORD	2-W22-20	01/18/91	Co-60		3.30E+00	1.80E+00	3.00E+00
HANFORD	2-W22-20	01/18/91	Cr-51	<	-1.50E+01	1.90E+01	3.00E+01
HANFORD	2-W22-20	01/18/91	Cs-134	<	6.00E-01	1.00E+00	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	2-W22-20	01/18/91	Cs-137	<	-1.00E+00	2.00E+00	3.00E+00
HANFORD	2-W22-20	01/18/91	Fe-59	<	3.00E-01	3.00E+00	5.00E+00
HANFORD	2-W22-20	01/18/91	Gross Alpha		2.20E+01	4.00E+00	4.00E+00
HANFORD	2-W22-20	01/18/91	Gross Beta		6.00E+01	3.00E+00	1.00E+00
HANFORD	2-W22-20	01/18/91	H-3		2.50E+05	1.00E+03	3.50E+02
HANFORD	2-W22-20	01/18/91	K-40		5.80E+01	3.10E+01	4.00E+01
HANFORD	2-W22-20	01/18/91	Mn-54	<	-2.00E-01	2.00E+00	2.00E+00
HANFORD	2-W22-20	01/18/91	NO2+NO3		2.07E+02	1.00E+01	1.00E+00
HANFORD	2-W22-20	01/18/91	Ra-226		3.16E-01	1.83E-01	7.00E-02
HANFORD	2-W22-20	01/18/91	Ru-106	<	-4.00E+00	1.30E+01	2.10E+01
HANFORD	2-W22-20	01/18/91	Sr-89	<	-4.00E-01	2.30E+00	7.00E-01
HANFORD	2-W22-20	01/18/91	Sr-90	<	-2.00E-02	3.90E-01	7.00E-01
HANFORD	2-W22-20	01/18/91	Total U		8.69E+00	5.40E-01	2.00E-01
HANFORD	2-W22-20	01/18/91	U-234		4.37E+00	3.80E-01	1.00E-01
HANFORD	2-W22-20	01/18/91	U-238		4.02E+00	3.60E-01	7.00E-02
HANFORD	2-W22-20	01/18/91	Zn-65	<	-2.00E+00	3.00E+00	5.00E+00
HANFORD	2-W22-20	01/18/91	Zr-95	<	-6.00E-01	2.00E+00	5.00E+00
HANFORD	2-W22-20	04/01/91	Co-58	<	3.00E-01	1.20E+00	2.00E+00
HANFORD	2-W22-20	04/01/91	Co-60	<	2.70E+00	2.10E+00	3.00E+00
HANFORD	2-W22-20	04/01/91	Cr-51	<	-4.00E+00	2.00E+01	3.00E+01
HANFORD	2-W22-20	04/01/91	Cs-134	<	-1.00E+00	1.10E+00	3.00E+00
HANFORD	2-W22-20	04/01/91	Cs-137	<	0.00E+00	1.10E+00	3.00E+00
HANFORD	2-W22-20	04/01/91	Fe-59	<	3.50E+00	3.20E+00	5.00E+00
HANFORD	2-W22-20	04/01/91	Gross Alpha		1.70E+01	4.00E+00	4.00E+00
HANFORD	2-W22-20	04/01/91	Gross Beta		5.30E+01	3.00E+00	1.00E+00
HANFORD	2-W22-20	04/01/91	H-3		2.76E+05	1.00E+03	3.50E+02
HANFORD	2-W22-20	04/01/91	K-40		4.80E+01	2.40E+01	4.00E+01
HANFORD	2-W22-20	04/01/91	Mn-54	<	6.00E-01	1.10E+00	2.00E+00
HANFORD	2-W22-20	04/01/91	NO2+NO3		2.52E+02	1.30E+01	1.00E+00
HANFORD	2-W22-20	04/01/91	Ru-106	<	-7.00E+00	1.00E+01	2.10E+01
HANFORD	2-W22-20	04/01/91	Sr-90	<	7.00E-02	4.60E-01	7.00E-01
HANFORD	2-W22-20	04/01/91	Total U		9.76E+00	5.50E-01	2.00E-01
HANFORD	2-W22-20	04/01/91	U-234		4.22E+00	3.60E-01	1.00E-01
HANFORD	2-W22-20	04/01/91	U-238		4.00E+00	3.50E-01	7.00E-02
HANFORD	2-W22-20	04/01/91	Zn-65	<	1.10E+00	2.10E+00	5.00E+00
HANFORD	2-W22-20	04/01/91	Zr-95	<	6.00E-01	1.40E+00	5.00E+00
HANFORD	2-W22-20	06/18/91	Co-60	<	2.70E+00	2.00E+00	3.00E+00
HANFORD	2-W22-20	06/18/91	Cs-137	<	-3.00E-01	1.10E+00	3.00E+00
HANFORD	2-W22-20	06/18/91	Gross Alpha		1.60E+01	6.00E+00	4.00E+00
HANFORD	2-W22-20	06/18/91	Gross Beta		5.30E+01	3.00E+00	1.00E+00
HANFORD	2-W22-20	06/18/91	H-3		2.23E+05	1.00E+03	3.50E+02
HANFORD	2-W22-20	06/18/91	NO2+NO3		2.20E+02	2.20E+01	1.00E+00
HANFORD	2-W22-20	06/18/91	Sr-90	<	3.20E-01	9.10E-01	7.00E-01
HANFORD	2-W22-20	06/18/91	Total U		9.02E+00	5.30E-01	2.00E-01
HANFORD	2-W22-20	06/18/91	U-234		4.42E+00	3.60E-01	1.00E-01
HANFORD	2-W22-20	06/18/91	U-238		4.06E+00	3.40E-01	7.00E-02
HANFORD	2-W22-20	09/04/91	Co-60	<	2.00E+00	1.60E+00	3.00E+00
HANFORD	2-W22-20	09/04/91	Cs-137	<	-6.60E-01	9.80E-01	3.00E+00
HANFORD	2-W22-20	09/04/91	Gross Alpha		1.10E+01	3.00E+00	4.00E+00
HANFORD	2-W22-20	09/04/91	Gross Beta		5.70E+01	3.00E+00	1.00E+00
HANFORD	2-W22-20	09/04/91	H-3		2.83E+05	1.00E+03	3.50E+02
HANFORD	2-W22-20	09/04/91	NO2+NO3		2.63E+02	1.30E+01	1.00E+00
HANFORD	2-W22-20	09/04/91	Total U		8.49E+00	3.50E-01	2.00E-01
HANFORD	2-W22-20	09/04/91	U-234		4.15E+00	2.40E-01	1.00E-01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	2-W22-20	09/04/91	U-238		3.94E+00	2.30E-01	7.00E-02
HANFORD	2-W22-20	12/04/91	Co-60		4.70E+00	2.20E+00	3.00E+00
HANFORD	2-W22-20	12/04/91	Cs-137	<	-2.00E-02	1.22E+00	3.00E+00
HANFORD	2-W22-20	12/04/91	Gross Alpha		1.40E+01	6.00E+00	4.00E+00
HANFORD	2-W22-20	12/04/91	Gross Beta		5.60E+01	3.00E+00	1.00E+00
HANFORD	2-W22-20	12/04/91	H-3		2.52E+05	1.00E+03	3.50E+02
HANFORD	2-W22-20	12/04/91	NO2+NO3		1.28E+02	6.00E+00	1.00E+00
HANFORD	2-W22-20	12/04/91	Sr-90	<	-2.00E-01	4.00E-01	7.00E-01
HANFORD	2-W22-20	12/04/91	Tc-99		1.30E+02	1.30E+01	5.00E+00
HANFORD	2-W22-20	12/04/91	Total U		7.90E+00	4.00E-01	2.00E-01
HANFORD	2-W22-20	12/04/91	U-234		3.80E+00	2.00E-01	1.00E-01
HANFORD	2-W22-20	12/04/91	U-238		3.60E+00	2.00E-01	7.00E-02
HANFORD	3-1-17A	01/16/91	Co-58	<	3.00E-01	1.80E+00	2.00E+00
HANFORD	3-1-17A	01/16/91	Co-60	<	-5.00E-01	1.40E+00	3.00E+00
HANFORD	3-1-17A	01/16/91	Cr-51	<	7.00E+00	2.50E+01	3.00E+01
HANFORD	3-1-17A	01/16/91	Cs-134	<	8.00E-01	1.30E+00	3.00E+00
HANFORD	3-1-17A	01/16/91	Cs-137	<	4.00E-01	1.60E+00	3.00E+00
HANFORD	3-1-17A	01/16/91	Fe-59	<	-1.00E-01	3.80E+00	5.00E+00
HANFORD	3-1-17A	01/16/91	Gross Alpha		2.20E+02	1.50E+01	4.00E+00
HANFORD	3-1-17A	01/16/91	Gross Beta		1.05E+02	3.00E+00	1.00E+00
HANFORD	3-1-17A	01/16/91	H-3	<	-3.60E+01	8.90E+01	3.50E+02
HANFORD	3-1-17A	01/16/91	Mn-54	<	-2.00E-01	1.60E+00	2.00E+00
HANFORD	3-1-17A	01/16/91	NO2+NO3		4.00E+00	2.00E-01	1.00E+00
HANFORD	3-1-17A	01/16/91	Ra-226	<	6.00E-03	8.30E-02	7.00E-02
HANFORD	3-1-17A	01/16/91	Ru-106	<	1.00E+00	1.50E+01	2.10E+01
HANFORD	3-1-17A	01/16/91	Sr-89	<	-1.00E+00	3.00E+00	7.00E-01
HANFORD	3-1-17A	01/16/91	Sr-90		9.00E-01	6.00E-01	7.00E-01
HANFORD	3-1-17A	01/16/91	Total U		1.93E+02	4.00E+00	2.00E-01
HANFORD	3-1-17A	01/16/91	U-234		1.04E+02	3.00E+00	1.00E-01
HANFORD	3-1-17A	01/16/91	U-236		1.31E+01	1.10E+00	2.00E+00
HANFORD	3-1-17A	01/16/91	U-238		7.46E+01	2.60E+00	7.00E-02
HANFORD	3-1-17A	01/16/91	Zn-65	<	3.70E+00	3.20E+00	5.00E+00
HANFORD	3-1-17A	01/16/91	Zr-95	<	-1.00E-01	1.90E+00	5.00E+00
HANFORD	3-1-17A	03/25/91	Co-58	<	-6.00E-01	1.20E+00	2.00E+00
HANFORD	3-1-17A	03/25/91	Co-60	<	1.00E+00	1.00E+00	3.00E+00
HANFORD	3-1-17A	03/25/91	Cr-51	<	-1.70E+01	2.20E+01	3.00E+01
HANFORD	3-1-17A	03/25/91	Cs-134	<	-2.80E+00	1.10E+00	3.00E+00
HANFORD	3-1-17A	03/25/91	Cs-137	<	-4.00E-01	1.00E+00	3.00E+00
HANFORD	3-1-17A	03/25/91	Fe-59	<	-2.60E+00	3.10E+00	5.00E+00
HANFORD	3-1-17A	03/25/91	Gross Alpha		3.00E+02	1.40E+01	4.00E+00
HANFORD	3-1-17A	03/25/91	Gross Beta		1.48E+02	4.00E+00	1.00E+00
HANFORD	3-1-17A	03/25/91	H-3	<	7.70E+01	1.17E+02	3.50E+02
HANFORD	3-1-17A	03/25/91	K-40	<	2.40E+01	2.00E+01	4.00E+01
HANFORD	3-1-17A	03/25/91	Mn-54	<	7.00E-01	1.00E+00	2.00E+00
HANFORD	3-1-17A	03/25/91	NO2+NO3		5.00E+00	3.00E-01	1.00E+00
HANFORD	3-1-17A	03/25/91	Ru-106	<	-6.00E-01	9.90E+00	2.10E+01
HANFORD	3-1-17A	03/25/91	Sr-90	<	4.60E-01	5.40E-01	7.00E-01
HANFORD	3-1-17A	03/25/91	Total U		2.62E+02	9.00E+00	2.00E-01
HANFORD	3-1-17A	03/25/91	U-234		1.35E+02	6.30E+00	1.00E-01
HANFORD	3-1-17A	03/25/91	U-235		8.83E+00	1.70E+00	2.00E+00
HANFORD	3-1-17A	03/25/91	U-236		1.13E+01	1.80E+00	2.00E+00
HANFORD	3-1-17A	03/25/91	U-238		9.47E+01	5.30E+00	7.00E-02
HANFORD	3-1-17A	03/25/91	Zn-65	<	-7.00E-01	2.20E+00	5.00E+00
HANFORD	3-1-17A	03/25/91	Zr-95	<	1.20E+00	1.40E+00	5.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	3-1-17A	06/24/91	Co-60	<	1.00E-01	1.50E+00	3.00E+00
HANFORD	3-1-17A	06/24/91	Cs-137	<	-9.00E-01	1.50E+00	3.00E+00
HANFORD	3-1-17A	06/24/91	Gross Alpha		2.33E+02	1.80E+01	4.00E+00
HANFORD	3-1-17A	06/24/91	Gross Beta		1.33E+02	4.00E+00	1.00E+00
HANFORD	3-1-17A	06/24/91	H-3	<	1.91E+02	9.00E+01	3.50E+02
HANFORD	3-1-17A	06/24/91	NO2+NO3		3.00E+00	2.00E-01	1.00E+00
HANFORD	3-1-17A	06/24/91	Sr-89	<	1.46E+01	1.84E+01	7.00E-01
HANFORD	3-1-17A	06/24/91	Sr-90	<	1.30E-01	4.10E-01	7.00E-01
HANFORD	3-1-17A	06/24/91	Total U		2.08E+02	9.00E+00	2.00E-01
HANFORD	3-1-17A	06/24/91	U-234		9.88E+01	6.30E+00	1.00E-01
HANFORD	3-1-17A	06/24/91	U-238		7.45E+01	5.40E+00	7.00E-02
HANFORD	3-1-17A	09/10/91	Co-60	<	1.26E+00	9.30E-01	3.00E+00
HANFORD	3-1-17A	09/10/91	Cs-137	<	2.90E-01	9.80E-01	3.00E+00
HANFORD	3-1-17A	09/10/91	Gross Alpha		9.20E+01	9.00E+00	4.00E+00
HANFORD	3-1-17A	09/10/91	Gross Beta		3.90E+01	2.00E+00	1.00E+00
HANFORD	3-1-17A	09/10/91	H-3		4.22E+02	9.50E+01	3.50E+02
HANFORD	3-1-17A	09/10/91	K-40	<	3.53E+01	1.96E+01	4.00E+01
HANFORD	3-1-17A	09/10/91	NO2+NO3		4.40E+00	2.00E-01	1.00E+00
HANFORD	3-1-17A	09/10/91	Total U		8.03E+01	1.40E+00	2.00E-01
HANFORD	3-1-17A	09/10/91	U-234		4.31E+01	1.00E+00	1.00E-01
HANFORD	3-1-17A	09/10/91	U-236		5.98E+00	3.70E-01	2.00E+00
HANFORD	3-1-17A	09/10/91	U-238		3.09E+01	9.00E-01	7.00E-02
HANFORD	3-1-17A	12/03/91	Co-60	<	-5.00E-01	1.40E+00	3.00E+00
HANFORD	3-1-17A	12/03/91	Cs-137	<	1.00E-01	1.20E+00	3.00E+00
HANFORD	3-1-17A	12/03/91	Gross Alpha		7.90E+01	8.00E+00	4.00E+00
HANFORD	3-1-17A	12/03/91	Gross Beta		2.00E+01	2.00E+00	1.00E+00
HANFORD	3-1-17A	12/03/91	H-3	<	3.14E+02	9.40E+01	3.50E+02
HANFORD	3-1-17A	12/03/91	NO2+NO3		4.00E+00	2.00E-01	1.00E+00
HANFORD	3-1-17A	12/03/91	Total U		6.79E+01	1.40E+00	2.00E-01
HANFORD	3-1-17A	12/03/91	U-234		3.58E+01	1.00E+00	1.00E-01
HANFORD	3-1-17A	12/03/91	U-236		5.12E+00	3.90E-01	2.00E+00
HANFORD	3-1-17A	12/03/91	U-238		2.67E+01	9.00E-01	7.00E-02
HANFORD	6-17-5	01/16/91	Co-58	<	-4.00E-01	1.00E+00	2.00E+00
HANFORD	6-17-5	01/16/91	Co-60	<	1.30E+00	1.00E+00	3.00E+00
HANFORD	6-17-5	01/16/91	Cr-51	<	-3.00E+00	1.30E+01	3.00E+01
HANFORD	6-17-5	01/16/91	Cs-134	<	-5.80E-01	9.90E-01	3.00E+00
HANFORD	6-17-5	01/16/91	Cs-137	<	1.00E-01	1.00E+00	3.00E+00
HANFORD	6-17-5	01/16/91	Fe-59	<	2.00E-01	2.40E+00	5.00E+00
HANFORD	6-17-5	01/16/91	Gross Alpha		5.00E+00	2.00E+00	4.00E+00
HANFORD	6-17-5	01/16/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	6-17-5	01/16/91	H-3	<	-5.60E+01	8.80E+01	3.50E+02
HANFORD	6-17-5	01/16/91	Mn-54	<	-8.00E-01	1.00E+00	2.00E+00
HANFORD	6-17-5	01/16/91	NO2+NO3		7.40E+01	3.70E+00	1.00E+00
HANFORD	6-17-5	01/16/91	Ru-106	<	6.20E+00	9.10E+00	2.10E+01
HANFORD	6-17-5	01/16/91	Zn-65	<	3.00E-01	1.90E+00	5.00E+00
HANFORD	6-17-5	01/16/91	Zr-95	<	4.00E-01	1.00E+00	5.00E+00
HANFORD	6-17-5	03/28/91	Co-58	<	1.00E-01	1.20E+00	2.00E+00
HANFORD	6-17-5	03/28/91	Co-60	<	3.00E-01	1.00E+00	3.00E+00
HANFORD	6-17-5	03/28/91	Cr-51	<	6.00E+00	2.70E+01	3.00E+01
HANFORD	6-17-5	03/28/91	Cs-134	<	-1.30E-01	9.10E-01	3.00E+00
HANFORD	6-17-5	03/28/91	Cs-137	<	0.00E+00	1.00E+00	3.00E+00
HANFORD	6-17-5	03/28/91	Fe-59	<	1.30E+00	2.90E+00	5.00E+00
HANFORD	6-17-5	03/28/91	Gross Alpha	<	4.00E+00	2.00E+00	4.00E+00
HANFORD	6-17-5	03/28/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-17-5	03/28/91	H-3	<	2.00E+01	1.20E+02	3.50E+02
HANFORD	6-17-5	03/28/91	K-40	<	3.10E+01	2.10E+01	4.00E+01
HANFORD	6-17-5	03/28/91	Mn-54	<	-6.00E-01	1.10E+00	2.00E+00
HANFORD	6-17-5	03/28/91	NO2+NO3		8.50E+01	4.00E+00	1.00E+00
HANFORD	6-17-5	03/28/91	Ru-106	<	4.60E+00	8.90E+00	2.10E+01
HANFORD	6-17-5	03/28/91	Zn-65	<	1.20E+00	2.30E+00	5.00E+00
HANFORD	6-17-5	03/28/91	Zr-95	<	-1.00E-01	1.60E+00	5.00E+00
HANFORD	6-17-5	06/20/91	Co-60	<	1.60E+00	1.30E+00	3.00E+00
HANFORD	6-17-5	06/20/91	Cs-137	<	-4.00E-01	1.40E+00	3.00E+00
HANFORD	6-17-5	06/20/91	Gross Alpha		5.00E+00	2.00E+00	4.00E+00
HANFORD	6-17-5	06/20/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	6-17-5	06/20/91	H-3	<	3.50E+01	8.70E+01	3.50E+02
HANFORD	6-17-5	06/20/91	K-40		8.10E+01	1.90E+01	4.00E+01
HANFORD	6-17-5	06/20/91	NO2+NO3		8.90E+01	4.00E+00	1.00E+00
HANFORD	6-17-5	06/20/91	Total U		4.10E+00	1.60E-01	2.00E-01
HANFORD	6-17-5	06/20/91	U-234		2.02E+00	2.30E-01	1.00E-01
HANFORD	6-17-5	06/20/91	U-238		1.83E+00	2.20E-01	7.00E-02
HANFORD	6-17-5	09/10/91	Co-60	<	-7.00E-02	9.40E-01	3.00E+00
HANFORD	6-17-5	09/10/91	Cs-137	<	-3.00E-01	1.00E+00	3.00E+00
HANFORD	6-17-5	09/10/91	Gross Alpha		5.00E+00	2.00E+00	4.00E+00
HANFORD	6-17-5	09/10/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	6-17-5	09/10/91	H-3	<	6.70E+01	8.80E+01	3.50E+02
HANFORD	6-17-5	09/10/91	NO2+NO3		7.50E+01	4.00E+00	1.00E+00
HANFORD	6-17-5	12/04/91	Co-60	<	3.10E-01	1.03E+00	3.00E+00
HANFORD	6-17-5	12/04/91	Cs-137	<	-4.12E-01	9.12E-01	3.00E+00
HANFORD	6-17-5	12/04/91	Gross Alpha	<	4.00E+00	3.00E+00	4.00E+00
HANFORD	6-17-5	12/04/91	Gross Beta		1.00E+01	1.00E+00	1.00E+00
HANFORD	6-17-5	12/04/91	H-3	<	1.03E+02	8.90E+01	3.50E+02
HANFORD	6-17-5	12/04/91	NO2+NO3		5.80E+01	2.90E+00	1.00E+00
HANFORD	6-24-33	01/18/91	Co-58	<	-8.00E-01	1.80E+00	2.00E+00
HANFORD	6-24-33	01/18/91	Co-60	<	1.90E+00	1.80E+00	3.00E+00
HANFORD	6-24-33	01/18/91	Cr-51	<	6.00E+00	2.40E+01	3.00E+01
HANFORD	6-24-33	01/18/91	Cs-134	<	1.00E-01	1.50E+00	3.00E+00
HANFORD	6-24-33	01/18/91	Cs-137	<	-5.00E-01	1.80E+00	3.00E+00
HANFORD	6-24-33	01/18/91	Fe-59	<	2.50E+00	3.80E+00	5.00E+00
HANFORD	6-24-33	01/18/91	Gross Alpha		7.60E+00	2.30E+00	4.00E+00
HANFORD	6-24-33	01/18/91	Gross Beta		2.20E+01	2.00E+00	1.00E+00
HANFORD	6-24-33	01/18/91	H-3		2.69E+05	1.00E+03	3.50E+02
HANFORD	6-24-33	01/18/91	Mn-54	<	1.70E+00	1.50E+00	2.00E+00
HANFORD	6-24-33	01/18/91	NO2+NO3		5.70E+01	2.90E+00	1.00E+00
HANFORD	6-24-33	01/18/91	Ru-106	<	-2.00E+00	1.60E+01	2.10E+01
HANFORD	6-24-33	01/18/91	Zn-65	<	-2.80E+00	3.40E+00	5.00E+00
HANFORD	6-24-33	01/18/91	Zr-95	<	-1.40E+00	2.00E+00	5.00E+00
HANFORD	6-24-33	03/28/91	Co-58	<	-6.00E-01	1.80E+00	2.00E+00
HANFORD	6-24-33	03/28/91	Co-60	<	-1.00E-01	1.70E+00	3.00E+00
HANFORD	6-24-33	03/28/91	Cr-51	<	-1.00E+00	3.40E+01	3.00E+01
HANFORD	6-24-33	03/28/91	Cs-134	<	4.00E-01	1.30E+00	3.00E+00
HANFORD	6-24-33	03/28/91	Cs-137	<	-2.00E-01	1.60E+00	3.00E+00
HANFORD	6-24-33	03/28/91	Fe-59	<	-1.00E-01	4.40E+00	5.00E+00
HANFORD	6-24-33	03/28/91	Gross Alpha	<	3.00E+00	6.00E+00	4.00E+00
HANFORD	6-24-33	03/28/91	Gross Beta		2.20E+01	2.00E+00	1.00E+00
HANFORD	6-24-33	03/28/91	H-3		3.00E+05	1.00E+03	3.50E+02
HANFORD	6-24-33	03/28/91	Mn-54	<	1.00E+00	1.40E+00	2.00E+00
HANFORD	6-24-33	03/28/91	NO2+NO3		5.60E+01	3.00E+00	1.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-24-33	03/28/91	Ru-106	<	-2.00E+00	1.40E+01	2.10E+01
HANFORD	6-24-33	03/28/91	Zn-65	<	1.20E+00	3.40E+00	5.00E+00
HANFORD	6-24-33	03/28/91	Zr-95	<	-6.00E-01	2.00E+00	5.00E+00
HANFORD	6-24-33	06/20/91	Co-58	<	-2.00E+00	2.00E+00	2.00E+00
HANFORD	6-24-33	06/20/91	Co-60	<	2.00E+00	2.00E+00	3.00E+00
HANFORD	6-24-33	06/20/91	Cr-51	<	1.00E+01	4.00E+01	3.00E+01
HANFORD	6-24-33	06/20/91	Cs-134	<	-1.70E+00	1.50E+00	3.00E+00
HANFORD	6-24-33	06/20/91	Cs-137	<	-7.00E-01	1.60E+00	3.00E+00
HANFORD	6-24-33	06/20/91	Fe-59		6.10E+00	4.60E+00	5.00E+00
HANFORD	6-24-33	06/20/91	Gross Alpha		5.00E+00	2.00E+00	4.00E+00
HANFORD	6-24-33	06/20/91	Gross Beta		2.00E+01	2.00E+00	1.00E+00
HANFORD	6-24-33	06/20/91	H-3		2.68E+05	1.00E+03	3.50E+02
HANFORD	6-24-33	06/20/91	Mn-54	<	2.00E-01	1.50E+00	2.00E+00
HANFORD	6-24-33	06/20/91	NO2+NO3		6.20E+01	3.00E+00	1.00E+00
HANFORD	6-24-33	06/20/91	Ru-106	<	6.00E+00	1.30E+01	2.10E+01
HANFORD	6-24-33	06/20/91	Total U		4.30E+00	3.80E-01	2.00E-01
HANFORD	6-24-33	06/20/91	U-234		2.33E+00	2.70E-01	1.00E-01
HANFORD	6-24-33	06/20/91	U-238		1.73E+00	2.30E-01	7.00E-02
HANFORD	6-24-33	06/20/91	Zn-65	<	-3.00E+00	4.00E+00	5.00E+00
HANFORD	6-24-33	06/20/91	Zr-95	<	-4.00E-01	2.20E+00	5.00E+00
HANFORD	6-24-33	09/10/91	Co-60	<	-2.00E-01	1.80E+00	3.00E+00
HANFORD	6-24-33	09/10/91	Cs-137	<	-4.00E-01	1.00E+00	3.00E+00
HANFORD	6-24-33	09/10/91	Gross Alpha	<	3.00E+00	2.00E+00	4.00E+00
HANFORD	6-24-33	09/10/91	Gross Beta		1.78E+01	1.70E+00	1.00E+00
HANFORD	6-24-33	09/10/91	H-3		2.97E+05	1.00E+03	3.50E+02
HANFORD	6-24-33	09/10/91	K-40	<	6.14E+00	2.55E+01	4.00E+01
HANFORD	6-24-33	09/10/91	NO2+NO3		5.40E+01	3.00E+00	1.00E+00
HANFORD	6-24-33	12/04/91	Co-60	<	1.20E+00	1.10E+00	3.00E+00
HANFORD	6-24-33	12/04/91	Cs-137	<	3.00E-01	9.00E-01	3.00E+00
HANFORD	6-24-33	12/04/91	Gross Alpha		4.10E+00	3.00E+00	4.00E+00
HANFORD	6-24-33	12/04/91	Gross Beta		2.40E+01	2.00E+00	1.00E+00
HANFORD	6-24-33	12/04/91	H-3		2.91E+05	1.00E+03	3.50E+02
HANFORD	6-24-33	12/04/91	NO2+NO3		4.20E+01	2.00E+00	1.00E+00
HANFORD	6-31-31	01/17/91	Co-58	<	3.00E-01	1.30E+00	2.00E+00
HANFORD	6-31-31	01/17/91	Co-60	<	-9.00E-01	1.30E+00	3.00E+00
HANFORD	6-31-31	01/17/91	Cr-51	<	8.00E+00	1.70E+01	3.00E+01
HANFORD	6-31-31	01/17/91	Cs-134	<	-3.00E-02	1.06E+00	3.00E+00
HANFORD	6-31-31	01/17/91	Cs-137	<	4.00E-01	1.30E+00	3.00E+00
HANFORD	6-31-31	01/17/91	Fe-59	<	4.00E+00	3.00E+00	5.00E+00
HANFORD	6-31-31	01/17/91	Gross Alpha	<	2.00E+00	3.00E+00	4.00E+00
HANFORD	6-31-31	01/17/91	Gross Beta		1.10E+01	1.00E+00	1.00E+00
HANFORD	6-31-31	01/17/91	H-3		1.26E+04	2.00E+02	3.50E+02
HANFORD	6-31-31	01/17/91	K-40	<	5.00E+00	2.70E+01	4.00E+01
HANFORD	6-31-31	01/17/91	Mn-54	<	1.00E-01	1.30E+00	2.00E+00
HANFORD	6-31-31	01/17/91	NO2+NO3		6.00E+00	3.00E-01	1.00E+00
HANFORD	6-31-31	01/17/91	Ru-106	<	1.00E-01	1.14E+01	2.10E+01
HANFORD	6-31-31	01/17/91	Zn-65	<	-3.00E+00	3.00E+00	5.00E+00
HANFORD	6-31-31	01/17/91	Zr-95	<	-3.00E-01	1.40E+00	5.00E+00
HANFORD	6-32-43	01/16/91	Co-58	<	-1.30E+00	1.60E+00	2.00E+00
HANFORD	6-32-43	01/16/91	Co-60	<	2.80E+00	1.60E+00	3.00E+00
HANFORD	6-32-43	01/16/91	Cr-51	<	7.00E+00	2.00E+01	3.00E+01
HANFORD	6-32-43	01/16/91	Cs-134	<	7.00E-01	1.20E+00	3.00E+00
HANFORD	6-32-43	01/16/91	Cs-137	<	7.00E-01	1.40E+00	3.00E+00
HANFORD	6-32-43	01/16/91	Fe-59	<	-4.10E+00	3.60E+00	5.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-32-43	01/16/91	Gross Alpha	<	4.00E+00	4.00E+00	4.00E+00
HANFORD	6-32-43	01/16/91	Gross Beta		1.80E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	01/16/91	H-3		2.60E+05	1.00E+03	3.50E+02
HANFORD	6-32-43	01/16/91	Mn-54	<	3.00E-01	1.40E+00	2.00E+00
HANFORD	6-32-43	01/16/91	NO2+NO3		4.01E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	01/16/91	Ru-106	<	-6.40E+00	1.40E+00	2.10E+01
HANFORD	6-32-43	01/16/91	Zn-65	<	-1.60E+00	3.00E+00	5.00E+00
HANFORD	6-32-43	01/16/91	Zr-95	<	6.00E-01	1.80E+00	5.00E+00
HANFORD	6-32-43	03/29/91	Co-58	<	4.00E-01	1.80E+00	2.00E+00
HANFORD	6-32-43	03/29/91	Co-60	<	4.00E-01	1.70E+00	3.00E+00
HANFORD	6-32-43	03/29/91	Cr-51	<	-1.00E+01	3.30E+01	3.00E+01
HANFORD	6-32-43	03/29/91	Cs-134	<	-4.00E-01	1.40E+00	3.00E+00
HANFORD	6-32-43	03/29/91	Cs-137	<	4.00E-01	1.40E+00	3.00E+00
HANFORD	6-32-43	03/29/91	Fe-59	<	2.60E+00	4.30E+00	5.00E+00
HANFORD	6-32-43	03/29/91	Gross Alpha		6.00E+00	2.00E+00	4.00E+00
HANFORD	6-32-43	03/29/91	Gross Beta		1.80E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	03/29/91	H-3		3.12E+05	1.00E+03	3.50E+02
HANFORD	6-32-43	03/29/91	Mn-54		2.50E+00	1.40E+00	2.00E+00
HANFORD	6-32-43	03/29/91	NO2+NO3		4.70E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	03/29/91	Ru-106	<	5.00E-01	1.40E+01	2.10E+01
HANFORD	6-32-43	03/29/91	Zn-65	<	-4.00E+00	3.00E+00	5.00E+00
HANFORD	6-32-43	03/29/91	Zr-95	<	-1.00E+00	2.00E+00	5.00E+00
HANFORD	6-32-43	06/18/91	Co-60	<	1.00E-01	1.60E+00	3.00E+00
HANFORD	6-32-43	06/18/91	Cs-137	<	1.20E+00	1.30E+00	3.00E+00
HANFORD	6-32-43	06/18/91	Gross Alpha		7.34E+00	6.08E+00	4.00E+00
HANFORD	6-32-43	06/18/91	Gross Beta		1.60E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	06/18/91	H-3		2.79E+05	1.00E+03	3.50E+02
HANFORD	6-32-43	06/18/91	NO2+NO3		4.90E+01	4.00E+00	1.00E+00
HANFORD	6-32-43	09/10/91	Co-60	<	2.50E+00	1.60E+00	3.00E+00
HANFORD	6-32-43	09/10/91	Cs-137	<	-6.00E-01	1.10E+00	3.00E+00
HANFORD	6-32-43	09/10/91	Gross Alpha		5.00E+00	1.00E+00	4.00E+00
HANFORD	6-32-43	09/10/91	Gross Beta		1.50E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	09/10/91	H-3		2.95E+05	1.00E+03	3.50E+02
HANFORD	6-32-43	09/10/91	K-40		4.76E+01	2.26E+01	4.00E+01
HANFORD	6-32-43	09/10/91	NO2+NO3		4.40E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	09/10/91	Tc-99		1.60E+01	1.60E+00	5.00E+00
HANFORD	6-32-43	12/04/91	Co-60	<	1.83E+00	9.90E-01	3.00E+00
HANFORD	6-32-43	12/04/91	Cs-137	<	1.20E-01	8.60E-01	3.00E+00
HANFORD	6-32-43	12/04/91	Gross Alpha		6.00E+00	3.00E+00	4.00E+00
HANFORD	6-32-43	12/04/91	Gross Beta		1.90E+01	2.00E+00	1.00E+00
HANFORD	6-32-43	12/04/91	H-3		2.82E+05	1.00E+03	3.50E+02
HANFORD	6-32-43	12/04/91	NO2+NO3		3.10E+01	1.60E+00	1.00E+00
HANFORD	6-32-77	03/29/91	Co-58	<	8.00E-01	1.70E+00	2.00E+00
HANFORD	6-32-77	03/29/91	Co-60	<	1.60E+00	1.30E+00	3.00E+00
HANFORD	6-32-77	03/29/91	Cr-51	<	-2.00E+00	2.70E+01	3.00E+01
HANFORD	6-32-77	03/29/91	Cs-134	<	3.00E-01	1.30E+00	3.00E+00
HANFORD	6-32-77	03/29/91	Cs-137	<	-3.00E-01	1.40E+00	3.00E+00
HANFORD	6-32-77	03/29/91	Fe-59	<	8.00E-01	4.00E+00	5.00E+00
HANFORD	6-32-77	03/29/91	Gross Alpha	<	1.00E+00	4.00E+00	4.00E+00
HANFORD	6-32-77	03/29/91	Gross Beta		5.00E+00	1.00E+00	1.00E+00
HANFORD	6-32-77	03/29/91	H-3	<	1.30E+01	1.20E+01	3.50E+02
HANFORD	6-32-77	03/29/91	Mn-54	<	-9.00E-01	1.50E+00	2.00E+00
HANFORD	6-32-77	03/29/91	NO2+NO3		1.20E+01	1.00E+00	1.00E+00
HANFORD	6-32-77	03/29/91	Ru-106	<	2.00E+00	1.40E+01	2.10E+01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-32-77	03/29/91	Zn-65	<	-6.00E-01	2.90E+00	5.00E+00
HANFORD	6-32-77	03/29/91	Zr-95	<	3.00E-01	1.80E+00	5.00E+00
HANFORD	6-35-70	01/17/91	Co-58	<	-4.00E-01	1.00E+00	2.00E+00
HANFORD	6-35-70	01/17/91	Co-60		4.00E+00	2.00E+00	3.00E+00
HANFORD	6-35-70	01/17/91	Cr-51	<	4.00E+00	1.40E+01	3.00E+01
HANFORD	6-35-70	01/17/91	Cs-134	<	-4.00E-01	1.00E+00	3.00E+00
HANFORD	6-35-70	01/17/91	Cs-137	<	-1.00E-01	1.00E+00	3.00E+00
HANFORD	6-35-70	01/17/91	Fe-59	<	3.00E-01	2.00E+00	5.00E+00
HANFORD	6-35-70	01/17/91	Gross Alpha	<	1.00E+00	4.00E+00	4.00E+00
HANFORD	6-35-70	01/17/91	Gross Beta		2.50E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	01/17/91	H-3		5.43E+05	2.00E+03	3.50E+02
HANFORD	6-35-70	01/17/91	Mn-54	<	6.00E-01	1.00E+00	2.00E+00
HANFORD	6-35-70	01/17/91	NO2+NO3		3.58E+01	1.80E+00	1.00E+00
HANFORD	6-35-70	01/17/91	Ru-106	<	-3.00E+00	9.00E+00	2.10E+01
HANFORD	6-35-70	01/17/91	Zn-65	<	-7.00E-01	2.00E+00	5.00E+00
HANFORD	6-35-70	01/17/91	Zr-95	<	-3.00E-01	1.00E+00	5.00E+00
HANFORD	6-35-70	04/15/91	Co-58	<	4.00E-01	1.70E+00	2.00E+00
HANFORD	6-35-70	04/15/91	Co-60		4.00E+00	2.00E+00	3.00E+00
HANFORD	6-35-70	04/15/91	Cr-51	<	1.20E+01	2.40E+01	3.00E+01
HANFORD	6-35-70	04/15/91	Cs-134	<	3.00E-01	1.60E+00	3.00E+00
HANFORD	6-35-70	04/15/91	Cs-137	<	-6.00E-01	1.80E+00	3.00E+00
HANFORD	6-35-70	04/15/91	Fe-59	<	1.00E+00	4.00E+00	5.00E+00
HANFORD	6-35-70	04/15/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-35-70	04/15/91	Gross Beta		2.40E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	04/15/91	H-3		6.48E+05	2.00E+03	3.50E+02
HANFORD	6-35-70	04/15/91	K-40	<	3.00E+01	3.00E+01	4.00E+01
HANFORD	6-35-70	04/15/91	Mn-54	<	5.00E-01	1.60E+00	2.00E+00
HANFORD	6-35-70	04/15/91	NO2+NO3		3.90E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	04/15/91	Ru-106	<	-6.00E+00	1.50E+01	2.10E+01
HANFORD	6-35-70	04/15/91	Total U		3.35E+00	3.30E-01	2.00E-01
HANFORD	6-35-70	04/15/91	U-234		1.64E+00	2.30E-01	1.00E-01
HANFORD	6-35-70	04/15/91	U-238		1.37E+00	2.00E-01	7.00E-02
HANFORD	6-35-70	04/15/91	Zn-65	<	2.00E+00	3.00E+00	5.00E+00
HANFORD	6-35-70	04/15/91	Zr-95	<	1.00E+00	2.00E+00	5.00E+00
HANFORD	6-35-70	06/14/91	Co-60	<	1.00E+00	1.00E+00	3.00E+00
HANFORD	6-35-70	06/14/91	Cs-137	<	1.00E-01	1.10E+00	3.00E+00
HANFORD	6-35-70	06/14/91	Gross Alpha		7.50E+00	5.50E+00	4.00E+00
HANFORD	6-35-70	06/14/91	Gross Beta		2.20E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	06/14/91	H-3		6.16E+05	2.00E+03	3.50E+02
HANFORD	6-35-70	06/14/91	K-40	<	1.80E+01	2.00E+01	4.00E+01
HANFORD	6-35-70	06/14/91	NO2+NO3		4.20E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	06/14/91	Total U		3.00E+00	4.20E-01	2.00E-01
HANFORD	6-35-70	06/14/91	U-234		1.59E+00	3.00E-01	1.00E-01
HANFORD	6-35-70	06/14/91	U-238		1.31E+00	2.50E-01	7.00E-02
HANFORD	6-35-70	09/10/91	Co-60	<	1.90E+00	1.30E+00	3.00E+00
HANFORD	6-35-70	09/10/91	Cs-137	<	8.00E-01	1.10E+00	3.00E+00
HANFORD	6-35-70	09/10/91	Gross Alpha		5.80E+00	3.60E+00	4.00E+00
HANFORD	6-35-70	09/10/91	Gross Beta		2.20E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	09/10/91	H-3		6.10E+05	2.00E+03	3.50E+02
HANFORD	6-35-70	09/10/91	NO2+NO3		4.10E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	09/10/91	Total U		3.17E+00	2.60E-01	2.00E-01
HANFORD	6-35-70	09/10/91	U-234		1.49E+00	1.80E-01	1.00E-01
HANFORD	6-35-70	09/10/91	U-238		1.46E+00	7.00E-01	7.00E-02
HANFORD	6-35-70	12/04/91	Co-60	<	2.50E+00	1.60E+00	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-35-70	12/04/91	Cs-137	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	6-35-70	12/04/91	Gross Alpha	<	4.00E+00	4.00E+00	4.00E+00
HANFORD	6-35-70	12/04/91	Gross Beta		2.50E+01	2.00E+00	1.00E+00
HANFORD	6-35-70	12/04/91	H-3		5.94E+05	2.00E+03	3.50E+02
HANFORD	6-35-70	12/04/91	NO2+NO3		2.90E+01	1.50E+00	1.00E+00
HANFORD	6-35-70	12/04/91	Total U		2.86E+00	2.30E-01	2.00E-01
HANFORD	6-35-70	12/04/91	U-234		1.51E+00	1.60E-01	1.00E-01
HANFORD	6-35-70	12/04/91	U-238		1.19E+00	1.40E-01	7.00E-02
HANFORD	6-36-46R	01/16/91	Co-58	<	-7.00E-01	1.70E+00	2.00E+00
HANFORD	6-36-46R	01/16/91	Co-60	<	4.00E-01	1.40E+00	3.00E+00
HANFORD	6-36-46R	01/16/91	Cr-51	<	1.70E+01	2.00E+01	3.00E+01
HANFORD	6-36-46R	01/16/91	Cs-134	<	1.00E-01	1.30E+00	3.00E+00
HANFORD	6-36-46R	01/16/91	Cs-137	<	-2.00E-01	1.50E+00	3.00E+00
HANFORD	6-36-46R	01/16/91	Fe-59	<	-1.00E+00	3.70E+00	5.00E+00
HANFORD	6-36-46R	01/16/91	Gross Alpha	<	2.00E+00	2.00E+00	4.00E+00
HANFORD	6-36-46R	01/16/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	6-36-46R	01/16/91	H-3	<	-8.00E+01	8.60E+01	3.50E+02
HANFORD	6-36-46R	01/16/91	K-40	<	3.70E+01	2.90E+01	4.00E+01
HANFORD	6-36-46R	01/16/91	Mn-54	<	4.00E-01	1.40E+00	2.00E+00
HANFORD	6-36-46R	01/16/91	NO2+NO3		3.00E+00	1.00E-01	1.00E+00
HANFORD	6-36-46R	01/16/91	Ru-106	<	1.30E+01	1.30E+01	2.10E+01
HANFORD	6-36-46R	01/16/91	Zn-65	<	2.00E+00	2.70E+00	5.00E+00
HANFORD	6-36-46R	01/16/91	Zr-95	<	1.70E+00	1.70E+00	5.00E+00
HANFORD	6-38-65	01/16/91	Co-58	<	5.00E-01	1.60E+00	2.00E+00
HANFORD	6-38-65	01/16/91	Co-60	<	2.70E+00	1.80E+00	3.00E+00
HANFORD	6-38-65	01/16/91	Cr-51	<	2.00E+00	2.40E+01	3.00E+01
HANFORD	6-38-65	01/16/91	Cs-134	<	-1.40E+00	1.60E+00	3.00E+00
HANFORD	6-38-65	01/16/91	Cs-137	<	1.20E+00	1.70E+00	3.00E+00
HANFORD	6-38-65	01/16/91	Fe-59	<	-2.30E+00	4.00E+00	5.00E+00
HANFORD	6-38-65	01/16/91	Gross Alpha	<	2.00E+00	6.00E+00	4.00E+00
HANFORD	6-38-65	01/16/91	Gross Beta		2.40E+01	2.00E+00	1.00E+00
HANFORD	6-38-65	01/16/91	H-3		3.71E+05	1.00E+03	3.50E+02
HANFORD	6-38-65	01/16/91	K-40		4.20E+01	1.80E+01	4.00E+01
HANFORD	6-38-65	01/16/91	Mn-54	<	1.30E+00	1.60E+00	2.00E+00
HANFORD	6-38-65	01/16/91	NO2+NO3		2.19E+02	1.10E+01	1.00E+00
HANFORD	6-38-65	01/16/91	Ru-106	<	-3.00E+00	1.70E+01	2.10E+01
HANFORD	6-38-65	01/16/91	Zn-65	<	-4.00E-01	3.10E+00	5.00E+00
HANFORD	6-38-65	01/16/91	Zr-95	<	0.00E+00	1.90E+00	5.00E+00
HANFORD	6-38-65	04/01/91	Co-58	<	-1.10E+00	1.50E+00	2.00E+00
HANFORD	6-38-65	04/01/91	Co-60		4.00E+00	2.60E+00	3.00E+00
HANFORD	6-38-65	04/01/91	Cr-51	<	-8.00E+00	2.60E+01	3.00E+01
HANFORD	6-38-65	04/01/91	Cs-134	<	-4.00E-01	1.10E+00	3.00E+00
HANFORD	6-38-65	04/01/91	Cs-137	<	0.00E+00	1.30E+00	3.00E+00
HANFORD	6-38-65	04/01/91	Fe-59	<	-2.00E-01	3.50E+00	5.00E+00
HANFORD	6-38-65	04/01/91	Gross Alpha	<	2.00E+00	6.00E+00	4.00E+00
HANFORD	6-38-65	04/01/91	Gross Beta		2.30E+01	2.00E+00	1.00E+00
HANFORD	6-38-65	04/01/91	H-3		4.28E+05	1.00E+03	3.50E+02
HANFORD	6-38-65	04/01/91	K-40	<	2.80E+01	2.00E+01	4.00E+01
HANFORD	6-38-65	04/01/91	Mn-54	<	1.20E+00	1.10E+00	2.00E+00
HANFORD	6-38-65	04/01/91	NO2+NO3		2.39E+02	1.20E+01	1.00E+00
HANFORD	6-38-65	04/01/91	Ru-106	<	-1.30E+01	1.10E+01	2.10E+01
HANFORD	6-38-65	04/01/91	Total U		2.29E+00	2.40E-01	2.00E-01
HANFORD	6-38-65	04/01/91	U-234		1.30E+00	1.80E-01	1.00E-01
HANFORD	6-38-65	04/01/91	U-238		8.90E-01	1.50E-01	7.00E-02

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-38-65	04/01/91	Zn-65	<	-5.00E-01	2.60E+00	5.00E+00
HANFORD	6-38-65	04/01/91	Zr-95	<	-5.00E-01	1.40E+00	5.00E+00
HANFORD	6-38-65	06/14/91	Co-58	<	-1.00E+00	1.00E+00	2.00E+00
HANFORD	6-38-65	06/14/91	Co-60	<	1.00E+00	1.00E+00	3.00E+00
HANFORD	6-38-65	06/14/91	Cr-51	<	1.00E+00	2.30E+01	3.00E+01
HANFORD	6-38-65	06/14/91	Cs-134	<	-1.00E+00	1.00E+00	3.00E+00
HANFORD	6-38-65	06/14/91	Cs-137	<	9.00E-02	9.50E-01	3.00E+00
HANFORD	6-38-65	06/14/91	Fe-59	<	0.00E+00	3.00E+00	5.00E+00
HANFORD	6-38-65	06/14/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	6-38-65	06/14/91	Gross Beta		2.30E+01	2.00E+00	1.00E+00
HANFORD	6-38-65	06/14/91	H-3		3.78E+05	1.00E+03	3.50E+02
HANFORD	6-38-65	06/14/91	Mn-54	<	5.00E-01	1.10E+00	2.00E+00
HANFORD	6-38-65	06/14/91	NO2+NO3		3.11E+02	1.60E+01	1.00E+00
HANFORD	6-38-65	06/14/91	Ru-106	<	-3.60E+00	9.70E+00	2.10E+01
HANFORD	6-38-65	06/14/91	Total U		2.27E+00	2.50E-01	2.00E-01
HANFORD	6-38-65	06/14/91	U-234		1.15E+00	1.80E-01	1.00E-01
HANFORD	6-38-65	06/14/91	U-238		9.08E-01	1.54E-01	7.00E-02
HANFORD	6-38-65	06/14/91	Zn-65	<	-2.00E+00	2.00E+00	5.00E+00
HANFORD	6-38-65	06/14/91	Zr-95	<	3.00E-01	1.40E+00	5.00E+00
HANFORD	6-38-65	09/10/91	Co-60	<	1.50E+00	1.78E+00	3.00E+00
HANFORD	6-38-65	09/10/91	Cs-137	<	-9.00E-02	9.90E-01	3.00E+00
HANFORD	6-38-65	09/10/91	Gross Alpha	<	2.00E+00	2.00E+00	4.00E+00
HANFORD	6-38-65	09/10/91	Gross Beta		3.10E+01	2.00E+00	1.00E+00
HANFORD	6-38-65	09/10/91	H-3		4.33E+05	1.00E+03	3.50E+02
HANFORD	6-38-65	09/10/91	NO2+NO3		2.23E+02	1.10E+01	1.00E+00
HANFORD	6-38-65	09/10/91	Total U		2.47E+00	2.50E-01	2.00E-01
HANFORD	6-38-65	09/10/91	U-234		1.32E+00	1.80E-01	1.00E-01
HANFORD	6-38-65	09/10/91	U-238		9.58E-01	1.50E-01	7.00E-02
HANFORD	6-38-65	12/04/91	Co-60		3.84E+00	1.63E+00	3.00E+00
HANFORD	6-38-65	12/04/91	Cs-137	<	5.50E-01	1.32E+00	3.00E+00
HANFORD	6-38-65	12/04/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-38-65	12/04/91	Gross Beta		2.50E+01	2.00E+00	1.00E+00
HANFORD	6-38-65	12/04/91	H-3		4.39E+05	1.00E+03	3.50E+02
HANFORD	6-38-65	12/04/91	NO2+NO3		1.50E+02	8.00E+00	1.00E+00
HANFORD	6-38-65	12/04/91	Total U		2.60E+00	3.70E-01	2.00E-01
HANFORD	6-38-65	12/04/91	U-234		1.37E+00	2.60E-01	1.00E-01
HANFORD	6-38-65	12/04/91	U-238		7.70E-01	2.09E-01	7.00E-02
HANFORD	6-40-1	01/18/91	Co-58	<	-5.00E-01	2.00E+00	2.00E+00
HANFORD	6-40-1	01/18/91	Co-60	<	3.00E+00	2.50E+00	3.00E+00
HANFORD	6-40-1	01/18/91	Cr-51	<	1.00E+01	2.10E+01	3.00E+01
HANFORD	6-40-1	01/18/91	Cs-134	<	-1.00E+00	2.00E+00	3.00E+00
HANFORD	6-40-1	01/18/91	Cs-137	<	1.00E-01	1.60E+00	3.00E+00
HANFORD	6-40-1	01/18/91	Fe-59	<	-3.00E+00	4.00E+00	5.00E+00
HANFORD	6-40-1	01/18/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-40-1	01/18/91	Gross Beta		6.50E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	01/18/91	H-3		1.84E+05	1.00E+03	3.50E+02
HANFORD	6-40-1	01/18/91	K-40	<	3.10E+01	3.00E+01	4.00E+01
HANFORD	6-40-1	01/18/91	Mn-54	<	-4.00E-01	1.60E+00	2.00E+00
HANFORD	6-40-1	01/18/91	NO2+NO3		6.47E+01	3.30E+00	1.00E+00
HANFORD	6-40-1	01/18/91	Ru-106	<	-5.00E+00	1.50E+01	2.10E+01
HANFORD	6-40-1	01/18/91	Sr-89	<	-9.00E-01	3.00E+00	7.00E-01
HANFORD	6-40-1	01/18/91	Sr-90	<	6.00E-02	5.20E-01	7.00E-01
HANFORD	6-40-1	01/18/91	Zn-65	<	-2.00E+00	4.00E+00	5.00E+00
HANFORD	6-40-1	01/18/91	Zr-95	<	-1.00E+00	2.00E+00	5.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-40-1	03/29/91	Co-58	<	-1.00E-01	1.80E+00	2.00E+00
HANFORD	6-40-1	03/29/91	Co-60		4.70E+00	2.90E+00	3.00E+00
HANFORD	6-40-1	03/29/91	Cr-51	<	1.70E+01	3.00E+01	3.00E+01
HANFORD	6-40-1	03/29/91	Cs-134	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	6-40-1	03/29/91	Cs-137	<	0.00E+00	1.40E+00	3.00E+00
HANFORD	6-40-1	03/29/91	Fe-59	<	-1.40E+00	3.70E+00	5.00E+00
HANFORD	6-40-1	03/29/91	Gross Alpha	<	2.00E+00	4.00E+00	4.00E+00
HANFORD	6-40-1	03/29/91	Gross Beta		6.70E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	03/29/91	H-3		2.05E+05	1.00E+03	3.50E+02
HANFORD	6-40-1	03/29/91	K-40		4.10E+01	2.90E+01	4.00E+01
HANFORD	6-40-1	03/29/91	Mn-54	<	-1.00E-01	1.40E+00	2.00E+00
HANFORD	6-40-1	03/29/91	NO2+NO3		6.20E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	03/29/91	Ru-106	<	-2.00E+00	1.10E+01	2.10E+01
HANFORD	6-40-1	03/29/91	Sr-90		1.10E+00	5.00E-01	7.00E-01
HANFORD	6-40-1	03/29/91	Tc-99		1.70E+02	1.70E+01	5.00E+00
HANFORD	6-40-1	03/29/91	Zn-65	<	1.60E+00	2.40E+00	5.00E+00
HANFORD	6-40-1	03/29/91	Zr-95	<	-2.00E-01	1.80E+00	5.00E+00
HANFORD	6-40-1	06/26/91	Co-60	<	2.90E+00	2.00E+00	3.00E+00
HANFORD	6-40-1	06/26/91	Cs-137	<	6.00E-01	1.00E+00	3.00E+00
HANFORD	6-40-1	06/26/91	Gross Alpha		5.10E+00	4.20E+00	4.00E+00
HANFORD	6-40-1	06/26/91	Gross Beta		6.40E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	06/26/91	H-3		1.75E+05	1.00E+03	3.50E+02
HANFORD	6-40-1	06/26/91	NO2+NO3		6.50E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	06/26/91	Sr-90	<	-8.00E-02	3.20E-01	7.00E-01
HANFORD	6-40-1	06/26/91	Tc-99		1.57E+02	1.60E+01	5.00E+00
HANFORD	6-40-1	06/26/91	Total U		4.11E+00	2.80E-01	2.00E-01
HANFORD	6-40-1	06/26/91	U-234		2.29E+00	2.00E-01	1.00E-01
HANFORD	6-40-1	06/26/91	U-238		1.53E+00	1.60E-01	7.00E-02
HANFORD	6-40-1	09/10/91	Co-60		3.80E+00	1.90E+00	3.00E+00
HANFORD	6-40-1	09/10/91	Cs-137	<	3.00E-01	1.10E+00	3.00E+00
HANFORD	6-40-1	09/10/91	Gross Alpha	<	5.00E+00	5.00E+00	4.00E+00
HANFORD	6-40-1	09/10/91	Gross Beta		6.60E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	09/10/91	H-3		1.98E+05	1.00E+03	3.50E+02
HANFORD	6-40-1	09/10/91	NO2+NO3		5.90E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	09/10/91	Sr-89	<	2.00E-01	6.30E+00	7.00E-01
HANFORD	6-40-1	09/10/91	Sr-90	<	1.60E-01	4.10E-01	7.00E-01
HANFORD	6-40-1	09/10/91	Tc-99		1.12E+02	1.10E+01	5.00E+00
HANFORD	6-40-1	12/03/91	Co-60		4.33E+00	1.94E+00	3.00E+00
HANFORD	6-40-1	12/03/91	Cs-137	<	2.40E-01	1.62E+00	3.00E+00
HANFORD	6-40-1	12/03/91	Gross Alpha		8.00E+00	3.00E+00	4.00E+00
HANFORD	6-40-1	12/03/91	Gross Beta		7.80E+01	3.00E+00	1.00E+00
HANFORD	6-40-1	12/03/91	H-3		2.04E+05	1.00E+03	3.50E+02
HANFORD	6-40-1	12/03/91	NO2+NO3		4.70E+01	2.40E+00	1.00E+00
HANFORD	6-40-1	12/03/91	Sr-89	<	-1.30E-01	1.28E+00	7.00E-01
HANFORD	6-40-1	12/03/91	Sr-90	<	2.60E-01	4.10E-01	7.00E-01
HANFORD	6-40-1	12/03/91	Tc-99		2.18E+02	2.20E+01	5.00E+00
HANFORD	6-40-33A	01/16/91	Co-58	<	3.00E-01	1.70E+00	2.00E+00
HANFORD	6-40-33A	01/16/91	Co-60	<	8.00E-01	1.50E+00	3.00E+00
HANFORD	6-40-33A	01/16/91	Cr-51	<	0.00E+00	1.90E+01	3.00E+01
HANFORD	6-40-33A	01/16/91	Cs-134	<	-8.00E-01	1.40E+00	3.00E+00
HANFORD	6-40-33A	01/16/91	Cs-137	<	-1.50E+00	1.60E+00	3.00E+00
HANFORD	6-40-33A	01/16/91	Fe-59	<	-1.50E+00	3.50E+00	5.00E+00
HANFORD	6-40-33A	01/16/91	Gross Alpha	<	2.00E+00	3.00E+00	4.00E+00
HANFORD	6-40-33A	01/16/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-40-33A	01/16/91	H-3	<	-5.50E+01	8.70E+01	3.50E+02
HANFORD	6-40-33A	01/16/91	Mn-54	<	-7.00E-01	1.50E+00	2.00E+00
HANFORD	6-40-33A	01/16/91	NO2+NO3		2.00E+00	1.00E-01	1.00E+00
HANFORD	6-40-33A	01/16/91	Ru-106	<	-2.00E+00	1.40E+01	2.10E+01
HANFORD	6-40-33A	01/16/91	Zn-65	<	-6.30E+00	3.40E+00	5.00E+00
HANFORD	6-40-33A	01/16/91	Zr-95	<	-4.00E-01	1.90E+00	5.00E+00
HANFORD	6-40-33A	04/15/91	Co-58	<	0.00E+00	1.20E+00	2.00E+00
HANFORD	6-40-33A	04/15/91	Co-60	<	-2.00E+00	1.10E+00	3.00E+00
HANFORD	6-40-33A	04/15/91	Cr-51	<	-6.00E+00	1.50E+01	3.00E+01
HANFORD	6-40-33A	04/15/91	Cs-134	<	-4.00E+00	1.00E+00	3.00E+00
HANFORD	6-40-33A	04/15/91	Cs-137	<	-5.00E-01	1.20E+00	3.00E+00
HANFORD	6-40-33A	04/15/91	Fe-59	<	9.00E-01	2.50E+00	5.00E+00
HANFORD	6-40-33A	04/15/91	Gross Alpha	<	3.00E+00	3.00E+00	4.00E+00
HANFORD	6-40-33A	04/15/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-40-33A	04/15/91	H-3	<	-7.00E+00	1.16E+02	3.50E+02
HANFORD	6-40-33A	04/15/91	K-40	<	3.20E+01	2.50E+01	4.00E+01
HANFORD	6-40-33A	04/15/91	Mn-54	<	-4.00E-01	1.20E+00	2.00E+00
HANFORD	6-40-33A	04/15/91	NO2+NO3		8.00E+00	4.00E-01	1.00E+00
HANFORD	6-40-33A	04/15/91	Ru-106	<	5.00E+00	1.00E+01	2.10E+01
HANFORD	6-40-33A	04/15/91	Zn-65	<	-4.00E+00	3.00E+00	5.00E+00
HANFORD	6-40-33A	04/15/91	Zr-95	<	-1.00E+00	1.00E+00	5.00E+00
HANFORD	6-40-33A	06/20/91	Gross Alpha	<	2.00E+00	1.00E+00	4.00E+00
HANFORD	6-40-33A	06/20/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	6-40-33A	06/20/91	H-3	<	-2.00E+01	8.60E+01	3.50E+02
HANFORD	6-40-33A	06/20/91	NO2+NO3		3.00E+00	2.00E-01	1.00E+00
HANFORD	6-40-33A	09/10/91	Co-60	<	-1.30E+00	1.10E+00	3.00E+00
HANFORD	6-40-33A	09/10/91	Cs-137	<	-3.00E-01	1.10E+00	3.00E+00
HANFORD	6-40-33A	09/10/91	Gross Alpha	<	1.00E+00	1.00E+00	4.00E+00
HANFORD	6-40-33A	09/10/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-40-33A	09/10/91	H-3	<	-1.90E+01	8.50E+01	3.50E+02
HANFORD	6-40-33A	09/10/91	NO2+NO3		4.40E+00	2.00E-01	1.00E+00
HANFORD	6-40-33A	12/04/91	Co-60	<	9.30E-01	9.40E-01	3.00E+00
HANFORD	6-40-33A	12/04/91	Cs-137	<	2.00E+00	9.10E+00	3.00E+00
HANFORD	6-40-33A	12/04/91	Gross Alpha	<	3.00E+00	3.00E+00	4.00E+00
HANFORD	6-40-33A	12/04/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-40-33A	12/04/91	H-3	<	2.00E+00	8.60E+01	3.50E+02
HANFORD	6-40-33A	12/04/91	NO2+NO3		2.00E+00	1.00E-01	1.00E+00
HANFORD	6-41-1	01/16/91	Co-58	<	2.00E-01	1.40E+00	2.00E+00
HANFORD	6-41-1	01/16/91	Co-60		6.00E+00	2.00E+00	3.00E+00
HANFORD	6-41-1	01/16/91	Cr-51	<	-3.00E+00	1.80E+01	3.00E+01
HANFORD	6-41-1	01/16/91	Cs-134	<	-1.00E-01	1.10E+00	3.00E+00
HANFORD	6-41-1	01/16/91	Cs-137	<	1.00E+00	1.20E+00	3.00E+00
HANFORD	6-41-1	01/16/91	Fe-59	<	-1.40E+00	3.50E+00	5.00E+00
HANFORD	6-41-1	01/16/91	Gross Alpha	<	4.00E+00	4.00E+00	4.00E+00
HANFORD	6-41-1	01/16/91	Gross Beta		6.70E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	01/16/91	H-3		1.72E+05	1.00E+03	3.50E+02
HANFORD	6-41-1	01/16/91	Mn-54	<	3.00E-01	1.30E+00	2.00E+00
HANFORD	6-41-1	01/16/91	NO2+NO3		5.42E+01	2.70E+00	1.00E+00
HANFORD	6-41-1	01/16/91	Ru-106	<	-5.00E+00	1.10E+01	2.10E+01
HANFORD	6-41-1	01/16/91	Sr-89	<	-1.00E+00	2.00E+00	7.00E-01
HANFORD	6-41-1	01/16/91	Sr-90	<	2.00E-01	5.00E-01	7.00E-01
HANFORD	6-41-1	01/16/91	Zn-65	<	-1.00E-01	2.70E+00	5.00E+00
HANFORD	6-41-1	01/16/91	Zr-95	<	-1.30E+00	1.60E+00	5.00E+00
HANFORD	6-41-1	04/15/91	Co-58	<	7.00E-01	1.10E+00	2.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-41-1	04/15/91	Co-60		3.50E+00	1.90E+00	3.00E+00
HANFORD	6-41-1	04/15/91	Cr-51	<	-1.00E+01	1.40E+01	3.00E+01
HANFORD	6-41-1	04/15/91	Cs-134	<	-1.50E+00	1.10E+00	3.00E+00
HANFORD	6-41-1	04/15/91	Cs-137	<	1.20E+00	1.10E+00	3.00E+00
HANFORD	6-41-1	04/15/91	Fe-59	<	-2.30E+00	2.70E+00	5.00E+00
HANFORD	6-41-1	04/15/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-41-1	04/15/91	Gross Beta		6.40E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	04/15/91	H-3		2.05E+05	1.00E+03	3.50E+02
HANFORD	6-41-1	04/15/91	Mn-54	<	1.10E+00	1.10E+00	2.00E+00
HANFORD	6-41-1	04/15/91	NO2+NO3		6.30E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	04/15/91	Ru-106	<	-1.00E+01	1.00E+01	2.10E+01
HANFORD	6-41-1	04/15/91	Sr-90	<	-3.00E-01	4.00E-01	7.00E-01
HANFORD	6-41-1	04/15/91	Tc-99		1.70E+02	1.70E+01	5.00E+00
HANFORD	6-41-1	04/15/91	Zn-65	<	-2.00E-01	2.30E+00	5.00E+00
HANFORD	6-41-1	04/15/91	Zr-95	<	-1.00E-01	1.20E+00	5.00E+00
HANFORD	6-41-1	06/26/91	Co-60		5.40E+00	1.50E+00	3.00E+00
HANFORD	6-41-1	06/26/91	Cs-137	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	6-41-1	06/26/91	Gross Alpha		7.10E+00	2.30E+00	4.00E+00
HANFORD	6-41-1	06/26/91	Gross Beta		6.70E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	06/26/91	H-3		1.84E+05	1.00E+03	3.50E+02
HANFORD	6-41-1	06/26/91	NO2+NO3		6.50E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	06/26/91	Sr-90	<	-7.00E-03	2.49E-01	7.00E-01
HANFORD	6-41-1	06/26/91	Tc-99		1.59E+02	1.60E+01	5.00E+00
HANFORD	6-41-1	09/10/91	Co-60		3.80E+00	1.50E+00	3.00E+00
HANFORD	6-41-1	09/10/91	Cs-137	<	4.00E-01	1.10E+00	3.00E+00
HANFORD	6-41-1	09/10/91	Gross Alpha	<	4.00E+00	5.00E+00	4.00E+00
HANFORD	6-41-1	09/10/91	Gross Beta		5.20E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	09/10/91	H-3		2.01E+05	1.00E+03	3.50E+02
HANFORD	6-41-1	09/10/91	K-40	<	1.63E+01	2.34E+01	4.00E+01
HANFORD	6-41-1	09/10/91	NO2+NO3		6.10E+01	3.00E+00	1.00E+00
HANFORD	6-41-1	09/10/91	Sr-89	<	3.78E+00	6.38E+00	7.00E-01
HANFORD	6-41-1	09/10/91	Sr-90	<	1.10E-01	4.20E-01	7.00E-01
HANFORD	6-41-1	09/10/91	Tc-99		1.49E+02	1.50E+01	5.00E+00
HANFORD	6-41-1	12/03/91	Co-60		6.00E+00	2.20E+00	3.00E+00
HANFORD	6-41-1	12/03/91	Cs-137	<	-1.00E+00	1.50E+00	3.00E+00
HANFORD	6-41-1	12/03/91	Gross Alpha		7.70E+00	2.80E+00	4.00E+00
HANFORD	6-41-1	12/03/91	Gross Beta		1.00E+02	5.00E+00	1.00E+00
HANFORD	6-41-1	12/03/91	H-3		2.03E+05	1.00E+03	3.50E+02
HANFORD	6-41-1	12/03/91	NO2+NO3		4.82E+01	2.40E+00	1.00E+00
HANFORD	6-41-1	12/03/91	Sr-89	<	6.00E-01	2.10E+00	7.00E-01
HANFORD	6-41-1	12/03/91	Sr-90	<	7.00E-01	4.00E-01	7.00E-01
HANFORD	6-41-1	12/03/91	Tc-99		1.78E+02	1.80E+01	5.00E+00
HANFORD	6-50-53	06/21/91	Co-60		3.87E+02	1.30E+01	3.00E+00
HANFORD	6-50-53	06/21/91	Cs-137	<	1.00E-01	3.00E+00	3.00E+00
HANFORD	6-50-53	06/21/91	Gross Alpha		1.84E+02	4.70E+01	4.00E+00
HANFORD	6-50-53	06/21/91	Gross Beta		7.31E+03	6.00E+01	1.00E+00
HANFORD	6-50-53	06/21/91	H-3		3.09E+03	1.40E+02	3.50E+02
HANFORD	6-50-53	06/21/91	NO2+NO3		3.70E+02	1.90E+01	1.00E+00
HANFORD	6-50-53	06/21/91	Pu-238	<	-3.00E-02	4.00E-02	3.00E-02
HANFORD	6-50-53	06/21/91	Pu-239/240	<	0.00E+00	1.00E-02	2.00E-02
HANFORD	6-50-53	06/21/91	Sr-89	<	1.00E+01	1.20E+01	7.00E-01
HANFORD	6-50-53	06/21/91	Sr-90	<	0.00E+00	4.00E-01	7.00E-01
HANFORD	6-50-53	06/21/91	Tc-99		1.39E+04	1.40E+03	5.00E+00
HANFORD	6-50-53	06/21/91	Total U		4.61E+00	3.70E-01	2.00E-01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-50-53	06/21/91	U-234		2.25E+00	2.60E-01	1.00E-01
HANFORD	6-50-53	06/21/91	U-238		2.08E+00	2.40E-01	7.00E-02
HANFORD	6-50-53	12/05/91	Co-60		3.79E+02	8.00E+00	3.00E+00
HANFORD	6-50-53	12/05/91	Cs-137	<	8.40E-01	1.84E+00	3.00E+00
HANFORD	6-50-53	12/05/91	Gross Alpha		7.00E+01	3.00E+01	4.00E+00
HANFORD	6-50-53	12/05/91	Gross Beta		6.67E+03	6.00E+01	1.00E+00
HANFORD	6-50-53	12/05/91	H-3		3.89E+03	1.50E+02	3.50E+02
HANFORD	6-50-53	12/05/91	NO2+NO3		5.53E+02	3.00E+00	1.00E+00
HANFORD	6-50-53	12/05/91	Pu-238	<	-1.80E-03	2.31E-02	3.00E-02
HANFORD	6-50-53	12/05/91	Pu-239/240	<	-4.40E-03	7.00E-03	2.00E-02
HANFORD	6-50-53	12/05/91	Tc-99		1.16E+04	1.20E+03	5.00E+00
HANFORD	6-50-53	12/05/91	Total U		4.59E+00	2.90E-01	2.00E-01
HANFORD	6-50-53	12/05/91	U-234		2.35E+00	2.00E-01	1.00E-01
HANFORD	6-50-53	12/05/91	U-238		2.02E+00	1.80E-01	7.00E-02
HANFORD	6-S19-11	01/16/91	Co-58	<	-1.30E-01	9.80E-01	2.00E+00
HANFORD	6-S19-11	01/16/91	Co-60	<	8.00E-01	9.10E-01	3.00E+00
HANFORD	6-S19-11	01/16/91	Cr-51	<	-2.00E+00	1.20E+01	3.00E+01
HANFORD	6-S19-11	01/16/91	Cs-134	<	-7.60E-01	8.40E-01	3.00E+00
HANFORD	6-S19-11	01/16/91	Cs-137	<	4.00E-02	8.70E-01	3.00E+00
HANFORD	6-S19-11	01/16/91	Fe-59	<	8.00E-01	2.10E+00	5.00E+00
HANFORD	6-S19-11	01/16/91	Gross Alpha	<	2.00E+00	3.00E+00	4.00E+00
HANFORD	6-S19-11	01/16/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
HANFORD	6-S19-11	01/16/91	H-3	<	-7.40E+01	8.70E+01	3.50E+02
HANFORD	6-S19-11	01/16/91	K-40	<	2.10E+01	2.00E+01	4.00E+01
HANFORD	6-S19-11	01/16/91	Mn-54	<	-3.60E-01	9.60E-01	2.00E+00
HANFORD	6-S19-11	01/16/91	NO2+NO3		1.94E+01	1.00E+00	1.00E+00
HANFORD	6-S19-11	01/16/91	Ru-106	<	-5.00E+00	7.90E+00	2.10E+01
HANFORD	6-S19-11	01/16/91	Zn-65	<	-3.40E+00	1.90E+00	5.00E+00
HANFORD	6-S19-11	01/16/91	Zr-95	<	-4.00E-01	1.10E+00	5.00E+00
HANFORD	6-S19-11	04/01/91	Co-58	<	6.00E-01	1.80E+00	2.00E+00
HANFORD	6-S19-11	04/01/91	Co-60	<	-1.20E+00	1.30E+00	3.00E+00
HANFORD	6-S19-11	04/01/91	Cr-51	<	-5.00E+00	2.70E+01	3.00E+01
HANFORD	6-S19-11	04/01/91	Cs-134	<	-6.00E-01	1.60E+00	3.00E+00
HANFORD	6-S19-11	04/01/91	Cs-137	<	-1.00E-01	1.50E+00	3.00E+00
HANFORD	6-S19-11	04/01/91	Fe-59	<	1.00E+00	4.00E+00	5.00E+00
HANFORD	6-S19-11	04/01/91	Gross Alpha	<	1.00E+00	3.00E+00	4.00E+00
HANFORD	6-S19-11	04/01/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
HANFORD	6-S19-11	04/01/91	H-3	<	-4.10E+01	1.15E+02	3.50E+02
HANFORD	6-S19-11	04/01/91	Mn-54	<	-4.00E-01	1.60E+00	2.00E+00
HANFORD	6-S19-11	04/01/91	NO2+NO3		1.90E+01	1.00E+00	1.00E+00
HANFORD	6-S19-11	04/01/91	Ru-106	<	-6.00E+00	1.40E+01	2.10E+01
HANFORD	6-S19-11	04/01/91	Zn-65	<	1.00E+00	3.00E+00	5.00E+00
HANFORD	6-S19-11	04/01/91	Zr-95	<	1.00E+00	2.00E+00	5.00E+00
HANFORD	6-S19-11	06/24/91	Co-60	<	1.00E+00	9.00E-01	3.00E+00
HANFORD	6-S19-11	06/24/91	Cs-137	<	4.00E-01	1.00E+00	3.00E+00
HANFORD	6-S19-11	06/24/91	Gross Alpha	<	2.90E+00	2.70E+00	4.00E+00
HANFORD	6-S19-11	06/24/91	Gross Beta		6.00E+00	1.00E+00	1.00E+00
HANFORD	6-S19-11	06/24/91	H-3	<	4.00E+01	8.80E+01	3.50E+02
HANFORD	6-S19-11	06/24/91	K-40		5.50E+01	2.00E+01	4.00E+01
HANFORD	6-S19-11	06/24/91	NO2+NO3		2.00E+01	1.00E+00	1.00E+00
HANFORD	6-S19-11	06/24/91	Total U		2.19E+00	1.80E-01	2.00E-01
HANFORD	6-S19-11	06/24/91	U-234		1.16E+00	1.30E-01	1.00E-01
HANFORD	6-S19-11	06/24/91	U-238		8.80E-01	1.10E-01	7.00E-02
HANFORD	6-S19-11	09/10/91	Co-60	<	-4.00E-01	1.20E+00	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-S19-11	09/10/91	Cs-137	<	4.00E-01	1.10E+00	3.00E+00
HANFORD	6-S19-11	09/10/91	Gross Alpha	<	2.70E+00	2.70E+00	4.00E+00
HANFORD	6-S19-11	09/10/91	Gross Beta		6.00E+00	1.00E+00	1.00E+00
HANFORD	6-S19-11	09/10/91	H-3	<	1.30E+01	8.60E+01	3.50E+02
HANFORD	6-S19-11	09/10/91	NO2+NO3		2.70E+01	1.00E+00	1.00E+00
HANFORD	6-S19-11	12/05/91	Co-60	<	1.60E+00	1.30E+00	3.00E+00
HANFORD	6-S19-11	12/05/91	Cs-137	<	-1.00E-01	1.30E+00	3.00E+00
HANFORD	6-S19-11	12/05/91	Gross Alpha	<	3.00E+00	3.00E+00	4.00E+00
HANFORD	6-S19-11	12/05/91	Gross Beta		5.80E+00	1.00E+00	1.00E+00
HANFORD	6-S19-11	12/05/91	H-3	<	4.90E+01	8.70E+01	3.50E+02
HANFORD	6-S19-11	12/05/91	NO2+NO3		3.30E+01	1.70E+00	1.00E+00
HANFORD	6-S19-E13	03/29/91	Co-58	<	-2.00E-01	1.30E+00	2.00E+00
HANFORD	6-S19-E13	03/29/91	Co-60	<	3.00E-01	1.10E+00	3.00E+00
HANFORD	6-S19-E13	03/29/91	Cr-51	<	-5.00E+00	2.50E+01	3.00E+01
HANFORD	6-S19-E13	03/29/91	Cs-134	<	-2.00E+00	1.00E+00	3.00E+00
HANFORD	6-S19-E13	03/29/91	Cs-137	<	2.00E-01	1.00E+00	3.00E+00
HANFORD	6-S19-E13	03/29/91	Fe-59	<	2.00E-02	3.05E+00	5.00E+00
HANFORD	6-S19-E13	03/29/91	Gross Alpha	<	4.00E+00	5.00E+00	4.00E+00
HANFORD	6-S19-E13	03/29/91	Gross Beta		1.10E+01	1.00E+00	1.00E+00
HANFORD	6-S19-E13	03/29/91	H-3		8.13E+03	1.60E+02	3.50E+02
HANFORD	6-S19-E13	03/29/91	Mn-54	<	2.00E-01	1.00E+00	2.00E+00
HANFORD	6-S19-E13	03/29/91	NO2+NO3		4.20E+01	2.00E+00	1.00E+00
HANFORD	6-S19-E13	03/29/91	Ru-106	<	-1.00E+00	9.00E+00	2.10E+01
HANFORD	6-S19-E13	03/29/91	Total U		3.95E+00	3.00E-01	2.00E-01
HANFORD	6-S19-E13	03/29/91	U-234		2.01E+00	2.10E-01	1.00E-01
HANFORD	6-S19-E13	03/29/91	U-238		1.62E+00	1.90E-01	7.00E-02
HANFORD	6-S19-E13	03/29/91	Zn-65	<	4.00E-01	2.40E+00	5.00E+00
HANFORD	6-S19-E13	03/29/91	Zr-95	<	1.30E+00	1.40E+00	5.00E+00
HANFORD	6-S19-E13	06/21/91	Co-60	<	2.20E+00	1.40E+00	3.00E+00
HANFORD	6-S19-E13	06/21/91	Cs-137	<	1.00E-01	1.40E+00	3.00E+00
HANFORD	6-S19-E13	06/21/91	Gross Alpha	<	3.90E+00	2.10E+00	4.00E+00
HANFORD	6-S19-E13	06/21/91	Gross Beta		1.10E+01	1.00E+00	1.00E+00
HANFORD	6-S19-E13	06/21/91	H-3		7.21E+03	1.90E+02	3.50E+02
HANFORD	6-S19-E13	06/21/91	K-40	<	2.50E+01	2.80E+01	4.00E+01
HANFORD	6-S19-E13	06/21/91	NO2+NO3		4.00E+01	2.00E+00	1.00E+00
HANFORD	6-S19-E13	06/21/91	Total U		5.25E+00	4.70E-01	2.00E-01
HANFORD	6-S19-E13	06/21/91	U-234		2.67E+00	3.30E-01	1.00E-01
HANFORD	6-S19-E13	06/21/91	U-238		2.03E+00	2.80E-01	7.00E-02
HANFORD	6-S19-E13	09/10/91	Co-60	<	2.10E+00	9.00E-01	3.00E+00
HANFORD	6-S19-E13	09/10/91	Cs-137	<	0.00E+00	1.00E+00	3.00E+00
HANFORD	6-S19-E13	09/10/91	Gross Alpha	<	4.50E+00	4.80E+00	4.00E+00
HANFORD	6-S19-E13	09/10/91	Gross Beta		1.20E+01	1.00E+00	1.00E+00
HANFORD	6-S19-E13	09/10/91	H-3		9.13E+03	2.10E+02	3.50E+02
HANFORD	6-S19-E13	09/10/91	NO2+NO3		3.70E+01	2.00E+00	1.00E+00
HANFORD	6-S19-E13	09/10/91	Total U		3.65E+00	2.70E-01	2.00E-01
HANFORD	6-S19-E13	09/10/91	U-234		1.97E+00	2.00E-01	1.00E-01
HANFORD	6-S19-E13	09/10/91	U-238		1.58E+00	1.70E-01	7.00E-02
HANFORD	6-S19-E13	12/03/91	Co-60	<	-2.00E-01	1.70E+00	3.00E+00
HANFORD	6-S19-E13	12/03/91	Cs-137	<	2.00E-01	1.60E+00	3.00E+00
HANFORD	6-S19-E13	12/03/91	Gross Alpha	<	4.00E+00	5.00E+00	4.00E+00
HANFORD	6-S19-E13	12/03/91	Gross Beta		1.20E+01	1.00E+00	1.00E+00
HANFORD	6-S19-E13	12/03/91	H-3		9.62E+03	2.10E+02	3.50E+02
HANFORD	6-S19-E13	12/03/91	NO2+NO3		2.93E+01	1.50E+00	1.00E+00
HANFORD	6-S19-E13	12/03/91	Total U		4.14E+00	3.40E-01	2.00E-01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-S19-E13	12/03/91	U-234		2.12E+00	2.40E-01	1.00E-01
HANFORD	6-S19-E13	12/03/91	U-238		1.68E+00	2.20E-01	7.00E-02
HANFORD	6-S30-E15A	01/18/91	Co-58	<	1.00E-01	1.00E+00	2.00E+00
HANFORD	6-S30-E15A	01/18/91	Co-60	<	1.00E+00	1.00E+00	3.00E+00
HANFORD	6-S30-E15A	01/18/91	Cr-51	<	-5.00E+00	1.30E+01	3.00E+01
HANFORD	6-S30-E15A	01/18/91	Cs-134	<	-1.00E+00	1.00E+00	3.00E+00
HANFORD	6-S30-E15A	01/18/91	Cs-137	<	4.00E-01	1.00E+00	3.00E+00
HANFORD	6-S30-E15A	01/18/91	Fe-59	<	2.00E+00	2.00E+00	5.00E+00
HANFORD	6-S30-E15A	01/18/91	Gross Alpha	<	1.00E+00	4.00E+00	4.00E+00
HANFORD	6-S30-E15A	01/18/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	01/18/91	H-3	<	2.11E+02	9.20E+01	3.50E+02
HANFORD	6-S30-E15A	01/18/91	K-40	<	2.30E+01	1.90E+01	4.00E+01
HANFORD	6-S30-E15A	01/18/91	Mn-54	<	-5.00E-01	1.00E+00	2.00E+00
HANFORD	6-S30-E15A	01/18/91	NO2+NO3		2.32E+01	1.20E+00	1.00E+00
HANFORD	6-S30-E15A	01/18/91	Ru-106	<	1.00E+01	9.00E+00	2.10E+01
HANFORD	6-S30-E15A	01/18/91	Zn-65	<	7.00E-01	2.00E+00	5.00E+00
HANFORD	6-S30-E15A	01/18/91	Zr-95	<	5.00E-01	1.00E+00	5.00E+00
HANFORD	6-S30-E15A	03/29/91	Co-58	<	1.70E+00	1.40E+00	2.00E+00
HANFORD	6-S30-E15A	03/29/91	Co-60	<	2.00E-01	1.10E+00	3.00E+00
HANFORD	6-S30-E15A	03/29/91	Cr-51	<	3.00E+00	2.50E+01	3.00E+01
HANFORD	6-S30-E15A	03/29/91	Cs-134	<	-2.00E-01	1.10E+00	3.00E+00
HANFORD	6-S30-E15A	03/29/91	Cs-137	<	-2.00E-01	1.20E+00	3.00E+00
HANFORD	6-S30-E15A	03/29/91	Fe-59	<	-4.00E-01	3.40E+00	5.00E+00
HANFORD	6-S30-E15A	03/29/91	Gross Alpha	<	2.00E+00	5.00E+00	4.00E+00
HANFORD	6-S30-E15A	03/29/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	03/29/91	H-3	<	2.10E+01	1.16E+02	3.50E+02
HANFORD	6-S30-E15A	03/29/91	Mn-54	<	-8.00E-01	1.20E+00	2.00E+00
HANFORD	6-S30-E15A	03/29/91	NO2+NO3		2.00E+01	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	03/29/91	Ru-106	<	-8.00E+00	1.10E+01	2.10E+01
HANFORD	6-S30-E15A	03/29/91	Total U		1.75E+00	2.50E-01	2.00E-01
HANFORD	6-S30-E15A	03/29/91	U-234		8.80E-01	1.70E-01	1.00E-01
HANFORD	6-S30-E15A	03/29/91	U-238		8.10E-01	2.00E-02	7.00E-02
HANFORD	6-S30-E15A	03/29/91	Zn-65	<	-1.80E+00	2.50E+00	5.00E+00
HANFORD	6-S30-E15A	03/29/91	Zr-95	<	1.00E-01	1.50E+00	5.00E+00
HANFORD	6-S30-E15A	06/21/91	Co-60	<	2.00E-01	1.10E+00	3.00E+00
HANFORD	6-S30-E15A	06/21/91	Cs-137	<	-4.00E-01	1.10E+00	3.00E+00
HANFORD	6-S30-E15A	06/21/91	Gross Alpha	<	3.70E+00	5.00E+00	4.00E+00
HANFORD	6-S30-E15A	06/21/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	06/21/91	H-3	<	8.10E+01	8.70E+01	3.50E+02
HANFORD	6-S30-E15A	06/21/91	NO2+NO3		2.20E+01	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	06/21/91	Total U		2.77E+00	2.60E-01	2.00E-01
HANFORD	6-S30-E15A	06/21/91	U-234		1.26E+00	1.90E-01	1.00E-01
HANFORD	6-S30-E15A	06/21/91	U-238		9.72E-01	2.00E-03	7.00E-02
HANFORD	6-S30-E15A	09/10/91	Co-60		6.00E+00	2.00E+00	3.00E+00
HANFORD	6-S30-E15A	09/10/91	Cs-137	<	-5.00E-01	1.00E+00	3.00E+00
HANFORD	6-S30-E15A	09/10/91	Gross Alpha	<	3.30E+00	4.20E+00	4.00E+00
HANFORD	6-S30-E15A	09/10/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	09/10/91	H-3	<	1.37E+02	8.90E+01	3.50E+02
HANFORD	6-S30-E15A	09/10/91	NO2+NO3		1.90E+01	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	09/10/91	Total U		1.93E+00	2.10E-01	2.00E-01
HANFORD	6-S30-E15A	09/10/91	U-234		9.02E-01	1.42E-01	1.00E-01
HANFORD	6-S30-E15A	09/10/91	U-238		8.06E-01	1.28E-01	7.00E-02
HANFORD	6-S30-E15A	12/03/91	Co-60	<	-8.00E-01	1.60E+00	3.00E+00
HANFORD	6-S30-E15A	12/03/91	Cs-137	<	1.00E-01	1.70E+00	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity µmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-S30-E15A	12/03/91	Gross Alpha	<	7.00E-01	3.00E+00	4.00E+00
HANFORD	6-S30-E15A	12/03/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	6-S30-E15A	12/03/91	H-3	<	1.06E+02	8.70E+01	3.50E+02
HANFORD	6-S30-E15A	12/03/91	NO2+NO3		1.40E+01	7.00E-01	1.00E+00
HANFORD	6-S30-E15A	12/03/91	Total U		1.70E+00	2.00E-01	2.00E-01
HANFORD	6-S30-E15A	12/03/91	U-234		6.00E-01	1.00E-01	1.00E-01
HANFORD	6-S30-E15A	12/03/91	U-238		9.00E-01	1.00E-01	7.00E-02
HANFORD	6-S6-E4B	01/17/91	Co-58	<	2.00E-01	1.60E+00	2.00E+00
HANFORD	6-S6-E4B	01/17/91	Co-60	<	0.00E+00	1.50E+00	3.00E+00
HANFORD	6-S6-E4B	01/17/91	Cr-51	<	9.00E+00	2.10E+01	3.00E+01
HANFORD	6-S6-E4B	01/17/91	Cs-134	<	-8.00E-01	1.20E+00	3.00E+00
HANFORD	6-S6-E4B	01/17/91	Cs-137	<	6.00E-01	1.20E+00	3.00E+00
HANFORD	6-S6-E4B	01/17/91	Fe-59	<	3.20E+00	3.30E+00	5.00E+00
HANFORD	6-S6-E4B	01/17/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-S6-E4B	01/17/91	Gross Beta		1.70E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4B	01/17/91	H-3		2.20E+04	3.00E+02	3.50E+02
HANFORD	6-S6-E4B	01/17/91	Mn-54	<	-1.30E+00	1.30E+00	2.00E+00
HANFORD	6-S6-E4B	01/17/91	NO2+NO3		2.64E+01	1.30E+00	1.00E+00
HANFORD	6-S6-E4B	01/17/91	Ru-106	<	0.00E+00	1.20E+00	2.10E+01
HANFORD	6-S6-E4B	01/17/91	Zn-65	<	-2.20E+00	2.80E+00	5.00E+00
HANFORD	6-S6-E4B	01/17/91	Zr-95	<	2.00E-01	1.50E+00	5.00E+00
HANFORD	6-S6-E4D	01/17/91	Co-58	<	4.00E-01	1.30E+00	2.00E+00
HANFORD	6-S6-E4D	01/17/91	Co-60	<	9.00E-01	1.30E+00	3.00E+00
HANFORD	6-S6-E4D	01/17/91	Cr-51	<	1.00E+00	1.70E+01	3.00E+01
HANFORD	6-S6-E4D	01/17/91	Cs-134	<	-9.00E-01	1.00E+00	3.00E+00
HANFORD	6-S6-E4D	01/17/91	Cs-137	<	0.00E+00	1.10E+00	3.00E+00
HANFORD	6-S6-E4D	01/17/91	Fe-59	<	2.00E-01	2.70E+00	5.00E+00
HANFORD	6-S6-E4D	01/17/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
HANFORD	6-S6-E4D	01/17/91	Gross Beta		2.00E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	01/17/91	H-3		3.34E+04	4.00E+02	3.50E+02
HANFORD	6-S6-E4D	01/17/91	K-40		4.20E+01	2.90E+01	4.00E+01
HANFORD	6-S6-E4D	01/17/91	Mn-54	<	-8.00E-01	1.20E+00	2.00E+00
HANFORD	6-S6-E4D	01/17/91	NO2+NO3		3.48E+01	1.80E+00	1.00E+00
HANFORD	6-S6-E4D	01/17/91	Ru-106	<	-5.00E-01	1.10E+01	2.10E+01
HANFORD	6-S6-E4D	01/17/91	Zn-65	<	6.00E-01	2.20E+00	5.00E+00
HANFORD	6-S6-E4D	01/17/91	Zr-95	<	-1.10E+00	1.40E+00	5.00E+00
HANFORD	6-S6-E4D	03/29/91	Co-58	<	-7.00E-01	1.60E+00	2.00E+00
HANFORD	6-S6-E4D	03/29/91	Co-60	<	-1.10E+00	1.50E+00	3.00E+00
HANFORD	6-S6-E4D	03/29/91	Cr-51	<	-1.50E+01	3.10E+01	3.00E+01
HANFORD	6-S6-E4D	03/29/91	Cs-134	<	-1.20E+00	1.20E+00	3.00E+00
HANFORD	6-S6-E4D	03/29/91	Cs-137	<	1.00E-01	1.30E+00	3.00E+00
HANFORD	6-S6-E4D	03/29/91	Fe-59	<	1.00E+00	3.90E+00	5.00E+00
HANFORD	6-S6-E4D	03/29/91	Gross Alpha	<	4.00E+00	2.00E+00	4.00E+00
HANFORD	6-S6-E4D	03/29/91	Gross Beta		2.20E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	03/29/91	H-3		3.80E+04	4.00E+02	3.50E+02
HANFORD	6-S6-E4D	03/29/91	Mn-54	<	-5.00E-01	1.40E+00	2.00E+00
HANFORD	6-S6-E4D	03/29/91	NO2+NO3		4.00E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	03/29/91	Ru-106	<	-1.00E+00	1.10E+01	2.10E+01
HANFORD	6-S6-E4D	03/29/91	Total U		4.60E+00	4.00E-01	2.00E-01
HANFORD	6-S6-E4D	03/29/91	U-234		2.10E+00	3.00E-01	1.00E-01
HANFORD	6-S6-E4D	03/29/91	U-238		1.70E+00	3.00E-01	7.00E-02
HANFORD	6-S6-E4D	03/29/91	Zn-65	<	9.00E-01	2.90E+00	5.00E+00
HANFORD	6-S6-E4D	03/29/91	Zr-95	<	-1.50E+00	1.80E+00	5.00E+00
HANFORD	6-S6-E4D	06/21/91	Co-60		3.30E+00	1.40E+00	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	6-S6-E4D	06/21/91	Cs-137	<	5.00E-01	1.50E+00	3.00E+00
HANFORD	6-S6-E4D	06/21/91	Gross Alpha		5.20E+00	2.40E+00	4.00E+00
HANFORD	6-S6-E4D	06/21/91	Gross Beta		2.00E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	06/21/91	H-3		3.34E+04	4.00E+02	3.50E+02
HANFORD	6-S6-E4D	06/21/91	NO2+NO3		4.20E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	06/21/91	Total U		3.32E+00	2.80E-01	2.00E-01
HANFORD	6-S6-E4D	06/21/91	U-234		1.71E+00	2.00E-01	1.00E-01
HANFORD	6-S6-E4D	06/21/91	U-238		1.59E+00	1.90E-01	7.00E-02
HANFORD	6-S6-E4D	09/10/91	Co-60	<	1.95E+00	9.80E-01	3.00E+00
HANFORD	6-S6-E4D	09/10/91	Cs-137	<	-8.90E-01	9.80E-01	3.00E+00
HANFORD	6-S6-E4D	09/10/91	Gross Alpha	<	4.00E+00	5.00E+00	4.00E+00
HANFORD	6-S6-E4D	09/10/91	Gross Beta		2.60E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	09/10/91	H-3		3.80E+04	4.00E+02	3.50E+02
HANFORD	6-S6-E4D	09/10/91	NO2+NO3		3.90E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	09/10/91	Total U		3.65E+00	2.90E-01	2.00E-01
HANFORD	6-S6-E4D	09/10/91	U-234		1.99E+00	2.10E-01	1.00E-01
HANFORD	6-S6-E4D	09/10/91	U-238		1.54E+00	1.80E-01	7.00E-02
HANFORD	6-S6-E4D	12/03/91	Co-60	<	2.99E+00	1.45E+00	3.00E+00
HANFORD	6-S6-E4D	12/03/91	Cs-137	<	-1.10E+00	1.50E+00	3.00E+00
HANFORD	6-S6-E4D	12/03/91	Gross Alpha		6.00E+00	5.00E+00	4.00E+00
HANFORD	6-S6-E4D	12/03/91	Gross Beta		2.40E+01	2.00E+00	1.00E+00
HANFORD	6-S6-E4D	12/03/91	H-3		3.82E+04	4.00E+02	3.50E+02
HANFORD	6-S6-E4D	12/03/91	K-40		5.77E+01	2.77E+01	4.00E+01
HANFORD	6-S6-E4D	12/03/91	NO2+NO3		3.02E+01	1.50E+00	1.00E+00
HANFORD	6-S6-E4D	12/03/91	Total U		4.02E+00	3.50E-01	2.00E-01
HANFORD	6-S6-E4D	12/03/91	U-234		2.13E+00	2.60E-01	1.00E-01
HANFORD	6-S6-E4D	12/03/91	U-238		1.58E+00	2.20E-01	7.00E-02
HANFORD	R6-49-100C	01/18/91	Co-58	<	2.00E+00	2.00E+00	2.00E+00
HANFORD	R6-49-100C	01/18/91	Co-60	<	3.00E+00	2.00E+00	3.00E+00
HANFORD	R6-49-100C	01/18/91	Cr-51	<	-2.00E+00	2.10E+01	3.00E+01
HANFORD	R6-49-100C	01/18/91	Cs-134	<	-4.00E-01	1.50E+00	3.00E+00
HANFORD	R6-49-100C	01/18/91	Cs-137	<	1.00E-01	1.60E+00	3.00E+00
HANFORD	R6-49-100C	01/18/91	Fe-59	<	2.00E+00	2.00E+00	5.00E+00
HANFORD	R6-49-100C	01/18/91	Gross Alpha	<	2.00E+00	5.00E+00	4.00E+00
HANFORD	R6-49-100C	01/18/91	Gross Beta		9.00E+00	1.00E+00	1.00E+00
HANFORD	R6-49-100C	01/18/91	H-3	<	5.70E+01	9.10E+01	3.50E+02
HANFORD	R6-49-100C	01/18/91	K-40	<	2.10E+01	3.20E+01	4.00E+01
HANFORD	R6-49-100C	01/18/91	Mn-54	<	-2.00E-01	1.50E+00	2.00E+00
HANFORD	R6-49-100C	01/18/91	NO2+NO3		1.90E+01	1.00E+00	1.00E+00
HANFORD	R6-49-100C	01/18/91	Ru-106	<	9.00E+00	1.40E+01	2.10E+01
HANFORD	R6-49-100C	01/18/91	Zn-65	<	1.00E+00	3.00E+00	5.00E+00
HANFORD	R6-49-100C	01/18/91	Zr-95	<	1.00E-01	1.60E+00	5.00E+00
HANFORD	R6-49-100C	04/01/91	Co-58	<	-1.10E+00	1.70E+00	2.00E+00
HANFORD	R6-49-100C	04/01/91	Co-60	<	1.20E+00	1.30E+00	3.00E+00
HANFORD	R6-49-100C	04/01/91	Cr-51	<	-2.60E+01	2.40E+01	3.00E+01
HANFORD	R6-49-100C	04/01/91	Cs-134	<	-9.00E-01	1.40E+00	3.00E+00
HANFORD	R6-49-100C	04/01/91	Fe-59	<	5.00E-01	4.10E+00	5.00E+00
HANFORD	R6-49-100C	04/01/91	Gross Alpha	<	2.00E+00	5.00E+00	4.00E+00
HANFORD	R6-49-100C	04/01/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	R6-49-100C	04/01/91	H-3	<	1.10E+01	1.15E+02	3.50E+02
HANFORD	R6-49-100C	04/01/91	K-40		5.60E+01	3.10E+01	4.00E+01
HANFORD	R6-49-100C	04/01/91	Mn-54	<	-1.00E-01	1.30E+00	2.00E+00
HANFORD	R6-49-100C	04/01/91	NO2+NO3		2.10E+01	1.00E+00	1.00E+00
HANFORD	R6-49-100C	04/01/91	Ru-106	<	-6.00E+00	1.30E+01	2.10E+01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	R6-49-100C	04/01/91	Total U		2.83E+00	3.00E-01	2.00E-01
HANFORD	R6-49-100C	04/01/91	U-234		1.58E+00	2.20E-01	1.00E-01
HANFORD	R6-49-100C	04/01/91	U-238		7.40E-01	1.30E-01	7.00E-02
HANFORD	R6-49-100C	04/01/91	Zn-65	<	1.10E+00	2.70E+00	5.00E+00
HANFORD	R6-49-100C	04/01/91	Zr-95	<	2.00E-01	1.70E+00	5.00E+00
HANFORD	R6-49-100C	06/20/91	Co-58	<	1.00E+00	1.00E+00	2.00E+00
HANFORD	R6-49-100C	06/20/91	Co-60	<	1.00E+00	9.00E-01	3.00E+00
HANFORD	R6-49-100C	06/20/91	Cr-51	<	-2.00E+01	2.00E+01	3.00E+01
HANFORD	R6-49-100C	06/20/91	Cs-134	<	-1.20E+00	9.00E-01	3.00E+00
HANFORD	R6-49-100C	06/20/91	Cs-137	<	0.00E+00	1.00E+00	3.00E+00
HANFORD	R6-49-100C	06/20/91	Fe-59	<	4.00E-01	3.10E+00	5.00E+00
HANFORD	R6-49-100C	06/20/91	Gross Alpha	<	1.00E+00	2.00E+00	4.00E+00
HANFORD	R6-49-100C	06/20/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
HANFORD	R6-49-100C	06/20/91	H-3	<	-5.40E+01	8.50E+01	3.50E+02
HANFORD	R6-49-100C	06/20/91	K-40		5.00E+01	2.00E+01	4.00E+01
HANFORD	R6-49-100C	06/20/91	Mn-54	<	-1.70E+00	1.10E+00	2.00E+00
HANFORD	R6-49-100C	06/20/91	NO2+NO3		2.30E+01	2.00E+00	1.00E+00
HANFORD	R6-49-100C	06/20/91	Ru-106	<	-1.00E+01	9.00E+00	2.10E+01
HANFORD	R6-49-100C	06/20/91	Total U		2.65E+00	2.70E-01	2.00E-01
HANFORD	R6-49-100C	06/20/91	U-234		1.67E+00	2.70E-01	1.00E-01
HANFORD	R6-49-100C	06/20/91	U-238		8.08E-01	1.44E-01	7.00E-02
HANFORD	R6-49-100C	06/20/91	Zn-65	<	-1.40E+00	2.10E+00	5.00E+00
HANFORD	R6-49-100C	06/20/91	Zr-95	<	-1.00E+00	1.00E+00	5.00E+00
USE	MW-10	10/30/91	Co-60	<	2.20E+00	1.20E+00	3.00E+00
USE	MW-10	10/30/91	Cs-137	<	1.20E+00	1.40E+00	3.00E+00
USE	MW-10	10/30/91	Gross Alpha		6.00E+00	5.00E+00	4.00E+00
USE	MW-10	10/30/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
USE	MW-10	10/30/91	H-3		9.28E+02	1.05E+02	3.50E+02
USE	MW-10	10/30/91	K-40	<	3.60E+01	3.30E+01	4.00E+01
USE	MW-10	10/30/91	NO2+NO3		3.00E+01	2.00E+00	1.00E+00
USE	MW-10	10/30/91	Pu-239/240	<	8.00E-04	1.05E-02	2.00E-02
USE	MW-10	10/30/91	Ru-106	<	-4.00E+00	1.50E+01	2.10E+01
USE	MW-10	10/30/91	Total U		2.53E+00	2.50E-01	2.00E-01
USE	MW-10	10/30/91	U-234		1.58E+00	1.90E-01	1.00E-01
USE	MW-10	10/30/91	U-238		6.89E-01	1.33E-01	7.00E-02
USE	MW-13	01/16/91	Co-60	<	1.30E+00	1.00E+00	3.00E+00
USE	MW-13	01/16/91	Cs-137	<	7.00E-01	1.10E+00	3.00E+00
USE	MW-13	01/16/91	Gross Alpha	<	2.00E+00	4.00E+00	4.00E+00
USE	MW-13	01/16/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
USE	MW-13	01/16/91	H-3		1.44E+03	1.20E+02	3.50E+02
USE	MW-13	01/16/91	K-40	<	2.80E-01	2.40E-01	4.00E+01
USE	MW-13	01/16/91	NO2+NO3		3.23E+01	1.60E+00	1.00E+00
USE	MW-13	01/16/91	Pu-238	<	2.00E-01	3.00E-01	3.00E-02
USE	MW-13	01/16/91	Pu-239/240	<	1.00E-02	5.00E-02	2.00E-02
USE	MW-13	01/16/91	Ru-106	<	-2.00E+00	1.00E+01	2.10E+01
USE	MW-13	01/16/91	Total U		3.50E+00	3.00E-01	2.00E-01
USE	MW-13	10/29/91	Co-60	<	5.00E-01	1.20E+00	3.00E+00
USE	MW-13	10/29/91	Cs-137	<	3.00E-01	1.10E+00	3.00E+00
USE	MW-13	10/29/91	Gross Alpha	<	2.00E+00	4.00E+00	4.00E+00
USE	MW-13	10/29/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
USE	MW-13	10/29/91	H-3		1.97E+03	1.20E+02	3.50E+02
USE	MW-13	10/29/91	NO2+NO3		3.70E+01	2.00E+00	1.00E+00
USE	MW-13	10/29/91	Pu-239/240	<	7.20E-03	1.30E-04	2.00E-02
USE	MW-13	10/29/91	Ru-106	<	5.00E+00	1.10E+01	2.10E+01

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
USE	MW-13	10/29/91	Total U		2.69E+00	2.30E-01	2.00E-01
USE	MW-13	10/29/91	U-234		1.54E+00	1.80E-01	1.00E-01
USE	MW-13	10/29/91	U-238		1.06E+00	1.40E-01	7.00E-02
USE	MW-3	01/18/91	Co-60	<	1.80E+00	1.00E+00	3.00E+00
USE	MW-3	01/18/91	Cs-137	<	-3.00E-01	1.00E+00	3.00E+00
USE	MW-3	01/18/91	Gross Alpha	<	4.00E+00	4.00E+00	4.00E+00
USE	MW-3	01/18/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
USE	MW-3	01/18/91	H-3		1.52E+03	1.20E+02	3.50E+02
USE	MW-3	01/18/91	K-40	<	4.00E+01	2.20E+01	4.00E+01
USE	MW-3	01/18/91	NO2+NO3		3.39E+01	1.70E+00	1.00E+00
USE	MW-3	01/18/91	Pu-238	<	3.00E-01	3.00E-01	3.00E-02
USE	MW-3	01/18/91	Pu-239/240	<	-2.00E-03	1.00E-02	2.00E-02
USE	MW-3	01/18/91	Ru-106	<	-2.90E+00	9.60E+00	2.10E+01
USE	MW-3	01/18/91	Total U		2.80E+00	3.00E-01	2.00E-01
USE	MW-5	10/29/91	Co-60	<	-5.00E-01	1.50E+00	3.00E+00
USE	MW-5	10/29/91	Cs-137	<	1.20E+00	1.70E+00	3.00E+00
USE	MW-5	10/29/91	Gross Alpha	<	5.00E+00	5.00E+00	4.00E+00
USE	MW-5	10/29/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
USE	MW-5	10/29/91	H-3		1.57E+03	1.20E+02	3.50E+02
USE	MW-5	10/29/91	NO2+NO3		3.40E+01	2.00E+00	1.00E+00
USE	MW-5	10/29/91	Pu-239/240	<	-2.60E-03	1.10E-02	2.00E-02
USE	MW-5	10/29/91	Ru-106	<	9.00E+00	1.50E+01	2.10E+01
USE	MW-5	10/29/91	Total U		2.80E+00	2.60E-01	2.00E-01
USE	MW-5	10/29/91	U-234		1.54E+00	1.90E-01	1.00E-01
USE	MW-5	10/29/91	U-238		1.21E+00	1.60E-01	7.00E-02
USE	MW-8	01/17/91	Co-60	<	1.30E+00	1.30E+00	3.00E+00
USE	MW-8	01/17/91	Cs-137	<	-1.30E+00	1.20E+00	3.00E+00
USE	MW-8	01/17/91	Gross Alpha		6.00E+00	2.00E+00	4.00E+00
USE	MW-8	01/17/91	Gross Beta		8.00E+00	1.00E+00	1.00E+00
USE	MW-8	01/17/91	H-3		9.97E+02	1.09E+02	3.50E+02
USE	MW-8	01/17/91	K-40		4.40E+01	2.40E+01	4.00E+01
USE	MW-8	01/17/91	NO2+NO3		3.20E+01	1.60E+00	1.00E+00
USE	MW-8	01/17/91	Pu-238	<	6.00E-02	2.20E-01	3.00E-02
USE	MW-8	01/17/91	Pu-239/240	<	-7.00E-02	8.00E-02	2.00E-02
USE	MW-8	01/17/91	Ru-106	<	-9.00E+00	1.20E+01	2.10E+01
USE	MW-8	01/17/91	Total U		3.30E+00	3.00E-01	2.00E-01
USE	6-34-57	01/18/91	Co-60	<	5.10E-01	9.10E-01	3.00E+00
USE	6-34-57	01/18/91	Cs-137	<	1.40E-01	8.50E-01	3.00E+00
USE	6-34-57	01/18/91	Gross Alpha	<	4.00E+00	4.00E+00	4.00E+00
USE	6-34-57	01/18/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
USE	6-34-57	01/18/91	H-3		1.47E+03	1.20E+02	3.50E+02
USE	6-34-57	01/18/91	K-40		5.90E+01	2.10E+01	4.00E+01
USE	6-34-57	01/18/91	NO2+NO3		3.38E+01	1.70E+00	1.00E+00
USE	6-34-57	01/18/91	Pu-238	<	1.00E-01	2.00E-01	3.00E-02
USE	6-34-57	01/18/91	Pu-239/240	<	-5.00E-02	8.00E-02	2.00E-02
USE	6-34-57	01/18/91	Ru-106	<	-2.10E+00	8.00E+00	2.10E+01
USE	6-34-57	01/18/91	Total U		2.70E+00	3.00E-01	2.00E-01
USE	6-36-50	10/30/91	Co-60	<	4.00E-01	1.10E+00	3.00E+00
USE	6-36-50	10/30/91	Cs-137	<	7.00E-01	1.00E+00	3.00E+00
USE	6-36-50	10/30/91	Gross Alpha	<	3.00E+00	4.00E+00	4.00E+00
USE	6-36-50	10/30/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
USE	6-36-50	10/30/91	H-3		8.58E+02	1.04E+02	3.50E+02
USE	6-36-50	10/30/91	NO2+NO3		3.10E+01	2.00E+00	1.00E+00
USE	6-36-50	10/30/91	Pu-239/240	<	-3.60E-03	8.30E-03	2.00E-02

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
USE	6-36-50	10/30/91	Ru-106	<	4.00E+00	1.00E+01	2.10E+01
USE	6-36-50	10/30/91	Total U		2.20E+00	3.60E-01	2.00E-01
USE	6-36-50	10/30/91	U-234		1.27E+00	2.70E-01	1.00E-01
USE	6-36-50	10/30/91	U-238		8.14E-01	2.45E-01	7.00E-02
WNI	MW2	05/22/91	Condct.		5.30E+02	2.70E+01	0.00E+00
WNI	MW2	05/22/91	Ra-226		1.97E-01	1.18E-01	7.00E-02
WNI	MW2	05/22/91	TDS		3.00E+02	1.50E+01	0.00E+00
WNI	MW2	05/22/91	Th-230	<	2.00E-02	8.00E-02	1.00E-01
WNI	MW2	05/22/91	Total U		3.74E+01	1.40E+00	2.00E-01
WNI	MW2	09/19/91	Condct.		5.30E+02	2.70E+01	0.00E+00
WNI	MW2	09/19/91	Ra-226		1.39E-01	1.17E-01	7.00E-02
WNI	MW2	09/19/91	TDS		3.00E+02	1.50E+01	0.00E+00
WNI	MW2	09/19/91	Th-230	<	-3.00E-02	1.48E-01	1.00E-01
WNI	MW2	09/19/91	Total U		3.13E+01	9.00E-01	2.00E-01
WNI	MW4	05/22/91	Condct.		4.90E+02	2.50E-03	0.00E+00
WNI	MW4	05/22/91	Ra-226		4.81E-01	1.68E-01	7.00E-02
WNI	MW4	05/22/91	TDS	<	3.10E-02	1.60E+01	0.00E+00
WNI	MW4	05/22/91	Th-230	<	3.00E-02	7.00E-02	1.00E-01
WNI	MW4	05/22/91	Total U		5.61E+00	3.50E-01	2.00E-01
WNI	MW4	09/19/91	Condct.		5.00E+02	2.50E+01	0.00E+00
WNI	MW4	09/19/91	Ra-226		6.28E-01	1.97E-01	7.00E-02
WNI	MW4	09/19/91	TDS		3.10E+02	1.60E+01	0.00E+00
WNI	MW4	09/19/91	Th-230	<	-5.00E-02	7.80E-02	1.00E-01
WNI	MW4	09/19/91	Total U		5.61E+00	3.40E-01	2.00E-01
WNI	MW6	05/22/91	Condct.		5.80E+02	2.90E+01	0.00E+00
WNI	MW6	05/22/91	Ra-226		7.29E-01	2.00E-01	7.00E-02
WNI	MW6	05/22/91	TDS		3.50E+02	1.80E+01	0.00E+00
WNI	MW6	05/22/91	Th-230	<	5.00E-02	9.00E-02	1.00E-01
WNI	MW6	05/22/91	Total U		7.52E+00	3.70E-01	2.00E-01
WNI	MW6	09/19/91	Condct.		5.90E+02	3.00E+01	0.00E+00
WNI	MW6	09/19/91	Ra-226		1.07E+00	2.50E-01	7.00E-02
WNI	MW6	09/19/91	TDS		3.90E+02	2.00E+01	0.00E+00
WNI	MW6	09/19/91	Th-230		1.23E-01	9.80E-02	1.00E-01
WNI	MW6	09/19/91	Total U		9.30E+00	5.30E-01	2.00E-01
WNI	PUMPHOUSE	05/22/91	Condct.		9.60E+02	4.80E+01	0.00E+00
WNI	PUMPHOUSE	05/22/91	Ra-226		1.32E-01	1.01E-01	7.00E-02
WNI	PUMPHOUSE	05/22/91	TDS		8.10E+02	4.10E+01	0.00E+00
WNI	PUMPHOUSE	05/22/91	Th-230	<	-3.00E-02	8.00E-02	1.00E-01
WNI	PUMPHOUSE	05/22/91	Total U		6.02E+01	3.70E+00	2.00E-01
WNI	PUMPHOUSE	09/19/91	Condct.		1.04E+03	5.00E+01	0.00E+00
WNI	PUMPHOUSE	09/19/91	Ra-226	<	8.60E-02	1.05E-01	7.00E-02
WNI	PUMPHOUSE	09/19/91	TDS		7.30E+02	3.60E+01	0.00E+00
WNI	PUMPHOUSE	09/19/91	Th-230	<	1.41E-01	2.24E-01	1.00E-01
WNI	PUMPHOUSE	09/19/91	Total U		5.90E+01	1.30E+00	2.00E-01
WNP-2	#31	06/11/91	Co-60	<	3.87E-01	9.94E-01	3.00E+00
WNP-2	#31	06/11/91	Cs-137	<	-1.00E-02	1.03E+00	3.00E+00
WNP-2	#31	06/11/91	Gross Beta		6.01E+00	1.09E+00	1.00E+00
WNP-2	#31	06/11/91	H-3	<	2.30E+01	8.70E+01	3.50E+02
WNP-2	#32	06/11/91	Co-60	<	1.91E+00	9.20E-01	3.00E+00
WNP-2	#32	06/11/91	Cs-137	<	2.00E-01	1.04E+00	3.00E+00
WNP-2	#32	06/11/91	Gross Beta		6.90E+00	1.09E+00	1.00E+00
WNP-2	#32	06/11/91	H-3	<	-5.40E+01	8.50E+01	3.50E+02
WNP-2	#32	06/11/91	K-40		5.78E+01	2.61E+01	4.00E+01
WNP-2	#52	06/11/91	Co-60	<	3.92E-01	9.84E-01	3.00E+00

TABLE A-6 CONTINUED

GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	#52	06/11/91	Cs-137	<	0.00E+00	9.27E-01	3.00E+00
WNP-2	#52	06/11/91	Gross Beta	<	9.30E-01	7.20E-01	1.00E+00
WNP-2	#52	06/11/91	H-3	<	-6.60E+01	8.50E+01	3.50E+02

TABLE A-7

MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
SKAGIT CO.		01/03/91	Ba-140	<	2.10E+00	5.60E+00	1.40E+01
SKAGIT CO.		01/03/91	Cs-137	<	1.40E+00	1.30E+00	4.00E+00
SKAGIT CO.		01/03/91	I-131	<	1.00E+00	1.50E+00	5.00E+00
SKAGIT CO.		01/03/91	K-40		1.36E+03	6.00E+01	3.00E+01
SKAGIT CO.		02/04/91	Ba-140	<	7.00E-01	4.70E+00	1.40E+01
SKAGIT CO.		02/04/91	Cs-137	<	-3.00E-01	1.20E+00	4.00E+00
SKAGIT CO.		02/04/91	I-131	<	-5.00E-01	1.20E+00	5.00E+00
SKAGIT CO.		02/04/91	K-40		1.42E+03	5.00E+01	3.00E+01
SKAGIT CO.		03/01/91	Ba-140	<	-4.10E+00	6.90E+00	1.40E+01
SKAGIT CO.		03/01/91	Cs-137	<	1.00E+00	1.30E+00	4.00E+00
SKAGIT CO.		03/01/91	I-131	<	5.00E-01	1.80E+00	5.00E+00
SKAGIT CO.		03/01/91	K-40		1.02E+03	6.00E+01	3.00E+01
SKAGIT CO.		04/01/91	Ba-140	<	4.00E-01	5.50E+00	1.40E+01
SKAGIT CO.		04/01/91	Cs-137	<	1.20E+00	1.20E+00	4.00E+00
SKAGIT CO.		04/01/91	I-131	<	3.00E-01	1.60E+00	5.00E+00
SKAGIT CO.		04/01/91	K-40		1.39E+03	6.00E+01	3.00E+01
SKAGIT CO.		05/03/91	Ba-140	<	-1.40E+00	4.50E+00	1.40E+01
SKAGIT CO.		05/03/91	Cs-137	<	-3.00E-01	1.10E+00	4.00E+00
SKAGIT CO.		05/03/91	I-131	<	-1.00E-01	1.30E+00	5.00E+00
SKAGIT CO.		05/03/91	K-40		1.38E+03	5.00E+01	3.00E+01
SKAGIT CO.		06/04/91	Ba-140	<	1.90E+00	5.60E+00	1.40E+01
SKAGIT CO.		06/04/91	Cs-137	<	4.00E-01	1.30E+00	4.00E+00
SKAGIT CO.		06/04/91	I-131	<	-1.40E+00	1.60E+00	5.00E+00
SKAGIT CO.		06/04/91	K-40		1.46E+03	6.00E+01	3.00E+01
SKAGIT CO.		07/01/91	Ba-140	<	-6.20E+00	5.80E+00	1.40E+01
SKAGIT CO.		07/01/91	Cs-137	<	1.30E+00	1.30E+00	4.00E+00
SKAGIT CO.		07/01/91	I-131	<	-7.00E-01	1.40E+00	5.00E+00
SKAGIT CO.		07/01/91	K-40		1.36E+03	3.00E+01	3.00E+01
SKAGIT CO.		08/07/91	Ba-140	<	-7.00E-01	5.20E+00	1.40E+01
SKAGIT CO.		08/07/91	Cs-137	<	1.10E+00	1.20E+00	4.00E+00
SKAGIT CO.		08/07/91	I-131	<	-1.20E+00	1.40E+00	5.00E+00
SKAGIT CO.		08/07/91	K-40		1.46E+03	5.00E+01	3.00E+01
SKAGIT CO.		09/03/91	Ba-140	<	-2.60E+00	5.30E+00	1.40E+01
SKAGIT CO.		09/03/91	Cs-137	<	1.20E+00	1.10E+00	4.00E+00
SKAGIT CO.		09/03/91	I-131	<	3.00E-01	1.40E+00	5.00E+00
SKAGIT CO.		09/03/91	K-40		1.41E+03	5.00E+01	3.00E+01
SKAGIT CO.		10/01/91	Ba-140	<	2.80E+00	5.80E+00	1.40E+01
SKAGIT CO.		10/01/91	Cs-137	<	1.60E+00	1.30E+00	4.00E+00
SKAGIT CO.		10/01/91	I-131	<	3.00E-01	1.50E+00	5.00E+00
SKAGIT CO.		10/01/91	K-40		1.37E+03	5.00E+01	3.00E+01
SKAGIT CO.		11/04/91	Ba-140	<	1.30E+00	6.60E+00	1.40E+01
SKAGIT CO.		11/04/91	Cs-137	<	8.00E-01	1.50E+00	4.00E+00
SKAGIT CO.		11/04/91	I-131	<	6.00E-01	1.70E+00	5.00E+00
SKAGIT CO.		11/04/91	K-40		1.39E+03	7.00E+01	3.00E+01
SKAGIT CO.		12/04/91	Ba-140	<	1.00E+00	5.54E+00	1.40E+01
SKAGIT CO.		12/04/91	Cs-137	<	9.50E-01	1.26E+00	4.00E+00
SKAGIT CO.		12/04/91	I-131	<	-6.00E-01	1.47E+00	5.00E+00
SKAGIT CO.		12/04/91	K-40		1.37E+03	6.00E+01	3.00E+01
TROJAN		01/14/91	Ba-140	<	-2.20E+00	5.70E+00	1.40E+01

TABLE A-7 CONTINUED

MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
TROJAN		01/14/91	Cs-137	<	2.60E+00	1.40E+00	4.00E+00
TROJAN		01/14/91	I-131	<	-1.80E+00	1.50E+00	5.00E+00
TROJAN		01/14/91	K-40		1.38E+03	6.00E+01	3.00E+01
TROJAN		02/04/91	Ba-140	<	1.60E+00	5.50E+00	1.40E+01
TROJAN		02/04/91	Cs-137	<	3.80E+00	2.10E+00	4.00E+00
TROJAN		02/04/91	I-131	<	-8.00E-01	1.50E+00	5.00E+00
TROJAN		02/04/91	K-40		1.35E+03	5.00E+01	3.00E+01
TROJAN		03/18/91	Ba-140	<	4.70E+00	5.70E+00	1.40E+01
TROJAN		03/18/91	Cs-137	<	2.00E+00	1.40E+00	4.00E+00
TROJAN		03/18/91	I-131	<	-3.00E-01	1.60E+00	5.00E+00
TROJAN		03/18/91	K-40		1.31E+03	4.80E+01	3.00E+01
TROJAN		04/08/91	Ba-140	<	3.60E+00	6.00E+00	1.40E+01
TROJAN		04/08/91	Cs-137	<	1.80E+00	1.30E+00	4.00E+00
TROJAN		04/08/91	I-131	<	-1.50E+00	1.80E+00	5.00E+00
TROJAN		04/08/91	K-40		1.38E+03	5.00E+01	3.00E+01
TROJAN		05/06/91	Ba-140	<	3.00E+00	6.00E+00	1.40E+01
TROJAN		05/06/91	Cs-137	<	1.60E+00	1.40E+00	4.00E+00
TROJAN		05/06/91	I-131	<	-1.00E+00	2.00E+00	5.00E+00
TROJAN		05/06/91	K-40		1.04E+03	5.00E+01	3.00E+01
TROJAN		06/10/91	Ba-140	<	1.60E+00	6.30E+00	1.40E+01
TROJAN		06/10/91	Cs-137	<	1.70E+00	1.20E+00	4.00E+00
TROJAN		06/10/91	I-131	<	-9.00E-01	1.90E+00	5.00E+00
TROJAN		06/10/91	K-40		1.33E+03	6.00E+01	3.00E+01
TROJAN		08/05/91	Ba-140	<	-1.60E+00	6.90E+00	1.40E+01
TROJAN		08/05/91	Cs-137	<	2.20E+00	1.50E+00	4.00E+00
TROJAN		08/05/91	I-131	<	2.20E+00	1.90E+00	5.00E+00
TROJAN		08/05/91	K-40		1.33E+03	6.00E+01	3.00E+01
TROJAN		09/09/91	Ba-140	<	-6.30E+00	6.20E+00	1.40E+01
TROJAN		09/09/91	Cs-137	<	3.10E+00	1.60E+00	4.00E+00
TROJAN		09/09/91	I-131	<	-1.00E-01	1.60E+00	5.00E+00
TROJAN		09/09/91	K-40		1.40E+03	5.00E+01	3.00E+01
TROJAN		10/08/91	Ba-140	<	-2.20E+00	6.70E+00	1.40E+01
TROJAN		10/08/91	Cs-137	<	2.40E+00	1.80E+00	4.00E+00
TROJAN		10/08/91	I-131	<	-5.00E-01	1.80E+00	5.00E+00
TROJAN		10/08/91	K-40		1.38E+03	6.00E+01	3.00E+01
TROJAN		11/04/91	Ba-140	<	-1.30E+00	6.90E+00	1.40E+01
TROJAN		11/04/91	Cs-137	<	7.00E-01	1.30E+00	4.00E+00
TROJAN		11/04/91	I-131	<	-1.10E+00	1.90E+00	5.00E+00
TROJAN		11/04/91	K-40		1.41E+03	6.00E+01	3.00E+01
TROJAN		12/02/91	Ba-140	<	8.60E-01	5.55E+00	1.40E+01
TROJAN		12/02/91	Cs-137	<	2.38E+00	1.69E+00	4.00E+00
TROJAN		12/02/91	I-131	<	-1.17E+00	1.53E+00	5.00E+00
TROJAN		12/02/91	K-40		1.40E+03	5.00E+01	3.00E+01
WNP-2	STATION 62	03/05/91	Cs-137	<	8.00E-01	1.30E+00	4.00E+00
WNP-2	STATION 62	03/05/91	I-131	<	-8.00E-01	1.90E+00	5.00E+00
WNP-2	STATION 62	03/05/91	K-40		1.23E+03	6.00E+01	3.00E+01
WNP-2	STATION 62	06/04/91	Cs-137	<	2.48E+00	1.76E+00	4.00E+00
WNP-2	STATION 62	06/04/91	I-131	<	2.29E+00	2.75E+00	5.00E+00
WNP-2	STATION 62	06/04/91	K-40		1.27E+03	8.00E+01	3.00E+01
WNP-2	STATION 62	09/10/91	Cs-137	<	-1.33E+00	1.86E+00	4.00E+00
WNP-2	STATION 62	09/10/91	I-131	<	-2.43E+00	2.43E+00	5.00E+00
WNP-2	STATION 62	09/10/91	K-40		1.26E+03	7.00E+01	3.00E+01
WNP-2	STATION 62	12/10/91	Cs-134	<	-1.78E+00	1.72E+00	4.00E+00
WNP-2	STATION 62	12/10/91	Cs-137	<	1.69E+00	1.82E+00	4.00E+00
WNP-2	STATION 62	12/10/91	I-131	<	-7.30E-01	2.50E+00	5.00E+00
WNP-2	STATION 62	12/10/91	K-40		1.34E+03	7.00E+01	3.00E+01
WNP-2	STATION 64	09/10/91	Cs-137	<	6.70E-01	1.82E+00	4.00E+00
WNP-2	STATION 64	09/10/91	I-131	<	-1.20E-01	3.10E+00	5.00E+00
WNP-2	STATION 64	09/10/91	K-40		1.36E+03	8.00E+01	3.00E+01

TABLE A-7 CONTINUED

MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 64	12/10/91	Cs-134	<	-7.40E-01	1.25E+00	4.00E+00
WNP-2	STATION 64	12/10/91	Cs-137	<	0.00E+00	1.42E+00	4.00E+00
WNP-2	STATION 64	12/10/91	I-131	<	2.16E+00	1.89E+00	5.00E+00
WNP-2	STATION 64	12/10/91	K-40		1.51E+03	7.00E+01	3.00E+01
WNP-2	STATION 9	03/05/91	Cs-137	<	1.40E+00	1.60E+00	4.00E+00
WNP-2	STATION 9	03/05/91	I-131	<	6.00E-01	2.30E+00	5.00E+00
WNP-2	STATION 9	03/05/91	K-40		1.23E+03	7.00E+01	3.00E+01
WNP-2	STATION 9	06/04/91	Cs-137	<	5.40E-01	1.60E+00	4.00E+00
WNP-2	STATION 9	06/04/91	I-131	<	4.30E-01	2.30E+00	5.00E+00
WNP-2	STATION 9	06/04/91	K-40		1.28E+03	8.00E+01	3.00E+01
WNP-2	STATION 9	09/10/91	Cs-137	<	1.52E+00	1.12E+00	4.00E+00
WNP-2	STATION 9	09/10/91	I-131	<	-1.10E+00	1.77E+00	5.00E+00
WNP-2	STATION 9	09/10/91	K-40		1.32E+03	5.00E+01	3.00E+01
WNP-2	STATION 9	12/10/91	Cs-134	<	-7.90E-01	1.12E+00	4.00E+00
WNP-2	STATION 9	12/10/91	Cs-137	<	3.60E-01	1.16E+00	4.00E+00
WNP-2	STATION 9	12/10/91	I-131	<	5.70E-01	1.64E+00	5.00E+00
WNP-2	STATION 9	12/10/91	K-40	<	1.59E+00	5.00E+01	3.00E+01
WNP-2	STATION 36	01/08/91	Ba-140	<	-1.60E+00	8.40E+00	1.40E+01
WNP-2	STATION 36	01/08/91	Cs-134	<	-3.00E-01	1.20E+00	4.00E+00
WNP-2	STATION 36	01/08/91	Cs-137	<	1.20E+00	1.40E+00	4.00E+00
WNP-2	STATION 36	01/08/91	I-131	<	-1.90E-01	4.60E-01	5.00E+00
WNP-2	STATION 36	01/08/91	K-40		1.34E+03	6.00E+01	3.00E+01
WNP-2	STATION 36	02/05/91	Ba-140	<	-2.50E+00	8.50E+00	1.40E+01
WNP-2	STATION 36	02/05/91	Cs-134	<	3.00E-01	1.10E+00	4.00E+00
WNP-2	STATION 36	02/05/91	Cs-137	<	1.00E+00	1.30E+00	4.00E+00
WNP-2	STATION 36	02/05/91	I-131	<	3.00E-01	5.10E-01	5.00E+00
WNP-2	STATION 36	02/05/91	K-40		1.29E+03	5.00E+01	3.00E+01
WNP-2	STATION 36	03/05/91	Ba-140	<	2.90E+00	7.50E+00	1.40E+01
WNP-2	STATION 36	03/05/91	Cs-134	<	1.00E-01	1.10E+00	4.00E+00
WNP-2	STATION 36	03/05/91	Cs-137	<	1.10E+00	1.20E+00	4.00E+00
WNP-2	STATION 36	03/05/91	I-131	<	6.50E-01	4.30E-01	5.00E+00
WNP-2	STATION 36	03/05/91	K-40		1.29E+03	6.00E+01	3.00E+01
WNP-2	STATION 36	04/02/91	Ba-140	<	-1.00E-01	2.10E+00	1.40E+01
WNP-2	STATION 36	04/02/91	Cs-134	<	-1.50E-01	3.60E-01	4.00E+00
WNP-2	STATION 36	04/02/91	Cs-137	<	-3.00E-02	4.50E-01	4.00E+00
WNP-2	STATION 36	04/02/91	I-131	<	-5.00E-02	4.30E-01	5.00E+00
WNP-2	STATION 36	04/02/91	K-40		1.27E+03	6.00E+01	3.00E+01
WNP-2	STATION 36	05/07/91	Ba-140	<	-1.10E+00	5.10E+00	1.40E+01
WNP-2	STATION 36	05/07/91	Cs-134	<	-2.10E-01	9.10E-01	4.00E+00
WNP-2	STATION 36	05/07/91	Cs-137	<	-3.00E-01	1.00E+00	4.00E+00
WNP-2	STATION 36	05/07/91	I-131	<	6.00E-02	3.80E-01	5.00E+00
WNP-2	STATION 36	05/07/91	K-40		1.33E+03	5.00E+01	3.00E+01
WNP-2	STATION 36	06/04/91	Ba-140	<	6.70E+00	8.30E+00	1.40E+01
WNP-2	STATION 36	06/04/91	Cs-134	<	-1.60E+00	1.60E+00	4.00E+00
WNP-2	STATION 36	06/04/91	Cs-137	<	-1.00E-01	1.80E+00	4.00E+00
WNP-2	STATION 36	06/04/91	I-131	<	-1.20E-01	3.50E-01	5.00E+00
WNP-2	STATION 36	06/04/91	K-40		1.35E+03	8.00E+01	3.00E+01
WNP-2	STATION 36	07/02/91	Ba-140	<	5.30E+00	6.37E+00	1.40E+01
WNP-2	STATION 36	07/02/91	Cs-134	<	3.90E-01	1.09E+00	4.00E+00
WNP-2	STATION 36	07/02/91	Cs-137	<	6.40E-01	1.20E+00	4.00E+00
WNP-2	STATION 36	07/02/91	I-131	<	3.22E-01	3.24E-01	5.00E+00
WNP-2	STATION 36	07/02/91	K-40		1.34E+03	6.00E+01	3.00E+01
WNP-2	STATION 36	08/06/91	Ba-140	<	-9.10E+00	7.20E+00	1.40E+01
WNP-2	STATION 36	08/06/91	Cs-134	<	-1.50E+00	1.10E+00	4.00E+00
WNP-2	STATION 36	08/06/91	Cs-137	<	4.00E-01	1.20E+00	4.00E+00
WNP-2	STATION 36	08/06/91	I-131	<	-7.00E-02	3.80E-01	5.00E+00
WNP-2	STATION 36	08/06/91	K-40		1.34E+03	5.00E+01	3.00E+01
WNP-2	STATION 36	09/10/91	Ba-140	<	-2.55E+00	7.44E+00	1.40E+01
WNP-2	STATION 36	09/10/91	Cs-134	<	-2.80E-01	1.10E+00	4.00E+00

TABLE A-7 CONTINUED

MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	STATION 36	09/10/91	Cs-137	<	2.00E-02	1.26E+00	4.00E+00
WNP-2	STATION 36	09/10/91	I-131	<	1.55E-01	3.66E-01	5.00E+00
WNP-2	STATION 36	09/10/91	K-40		1.32E+03	5.00E+01	3.00E+01
WNP-2	STATION 36	10/15/91	Ba-140	<	2.11E+00	6.31E+00	1.40E+01
WNP-2	STATION 36	10/15/91	Cs-134	<	-8.30E-01	1.05E+00	4.00E+00
WNP-2	STATION 36	10/15/91	Cs-137	<	-8.60E-01	1.20E+00	4.00E+00
WNP-2	STATION 36	10/15/91	I-131	<	3.27E-01	3.82E-01	5.00E+00
WNP-2	STATION 36	10/15/91	K-40		1.36E+03	5.00E+01	3.00E+01
WNP-2	STATION 36	11/19/91	Ba-140	<	3.50E+00	1.17E+01	1.40E+01
WNP-2	STATION 36	11/19/91	Cs-134	<	-1.05E+00	1.72E+00	4.00E+00
WNP-2	STATION 36	11/19/91	Cs-137	<	1.19E+00	2.00E+00	4.00E+00
WNP-2	STATION 36	11/19/91	I-131	<	5.00E-02	3.60E-01	5.00E+00
WNP-2	STATION 36	11/19/91	K-40		1.37E+03	8.00E+01	3.00E+01
WNP-2	STATION 36	12/10/91	Ba-140	<	-1.68E+01	1.17E+01	1.40E+01
WNP-2	STATION 36	12/10/91	Cs-134	<	3.10E-01	1.58E+00	4.00E+00
WNP-2	STATION 36	12/10/91	Cs-137	<	1.84E+00	2.03E+00	4.00E+00
WNP-2	STATION 36	12/10/91	I-131	<	4.80E-02	4.12E-01	5.00E+00
WNP-2	STATION 36	12/10/91	K-40		1.28E+03	9.00E+01	3.00E+01
WNP-2	STATION 40	03/05/91	Cs-137	<	0.00E+00	1.90E+00	4.00E+00
WNP-2	STATION 40	03/05/91	I-131	<	-8.00E-01	2.70E+00	5.00E+00
WNP-2	STATION 40	03/05/91	K-40		1.46E+03	8.00E+01	3.00E+01
WNP-2	STATION 40	06/04/91	Cs-137	<	-8.00E-02	1.13E+00	4.00E+00
WNP-2	STATION 40	06/04/91	I-131	<	-1.35E+00	1.62E+00	5.00E+00
WNP-2	STATION 40	06/04/91	K-40		1.29E+03	5.00E+01	3.00E+01
WNP-2	STATION 40	09/10/91	Cs-137	<	-1.05E+00	1.84E+00	4.00E+00
WNP-2	STATION 40	09/10/91	I-131	<	4.00E-02	3.44E+00	5.00E+00
WNP-2	STATION 40	09/10/91	K-40		1.18E+03	8.00E+01	3.00E+01
WNP-2	STATION 40	12/10/91	Cs-134	<	-2.33E+00	1.13E+00	4.00E+00
WNP-2	STATION 40	12/10/91	Cs-137	<	-6.80E-01	1.18E+00	4.00E+00
WNP-2	STATION 40	12/10/91	I-131	<	-1.19E+00	1.96E+00	5.00E+00
WNP-2	STATION 40	12/10/91	K-40		1.59E+03	5.00E+01	3.00E+01
WNP-2	STATION 59	03/05/91	Cs-137	<	5.00E-01	1.30E+00	4.00E+00
WNP-2	STATION 59	03/05/91	I-131	<	1.30E+00	2.10E+00	5.00E+00
WNP-2	STATION 59	03/05/91	K-40		1.38E+03	6.00E+01	3.00E+01
WNP-2	STATION 59	06/04/91	Cs-137	<	-1.20E-01	1.20E+00	4.00E+00
WNP-2	STATION 59	06/04/91	I-131	<	5.70E-01	1.97E+00	5.00E+00
WNP-2	STATION 59	06/04/91	K-40		1.23E+03	5.00E+01	3.00E+01
WNP-2	STATION 96	03/05/91	Cs-137	<	1.00E+00	1.20E+00	4.00E+00
WNP-2	STATION 96	03/05/91	I-131	<	1.30E+00	1.80E+00	5.00E+00
WNP-2	STATION 96	03/05/91	K-40		1.47E+03	5.00E+01	3.00E+01
WNP-2	STATION 96	06/04/91	Cs-137	<	-5.40E-01	1.06E+00	4.00E+00
WNP-2	STATION 96	06/04/91	I-131	<	-1.10E-01	1.58E+00	5.00E+00
WNP-2	STATION 96	06/04/91	K-40		1.47E+03	4.00E+01	3.00E+01
WNP-2	STATION 96	09/10/91	Cs-137	<	2.90E-01	1.25E+00	4.00E+00
WNP-2	STATION 96	09/10/91	I-131	<	6.50E-01	1.97E+00	5.00E+00
WNP-2	STATION 96	09/10/91	K-40		1.28E+03	5.00E+01	3.00E+01
WNP-2	STATION 96	12/10/91	Cs-134	<	6.30E-01	1.09E+00	4.00E+00
WNP-2	STATION 96	12/10/91	Cs-137	<	4.00E-01	1.19E+00	4.00E+00
WNP-2	STATION 96	12/10/91	I-131	<	1.10E-01	1.90E+00	5.00E+00
WNP-2	STATION 96	12/10/91	K-40		1.41E+03	6.00E+01	3.00E+01

TABLE A-8

SEDIMENT ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
BREMERTON	STATION 1	03/15/91	Co-60	<	3.00E-03	1.60E-02	2.00E-02
BREMERTON	STATION 1	03/15/91	Cs-137		1.30E-01	3.00E-02	2.00E-02
BREMERTON	STATION 1	03/15/91	Gross Beta		1.40E+01	3.00E+00	1.00E+00
BREMERTON	STATION 1	03/15/91	K-40		7.90E+00	6.00E-01	1.00E-01
BREMERTON	STATION 1	03/15/91	Ru-106	<	5.00E-02	1.30E-01	2.00E-01
BREMERTON	STATION 1	03/15/91	Zn-65	<	-4.60E-02	3.80E-02	4.00E-02
BREMERTON	STATION 1	03/15/91	Zr-95	<	-5.00E-03	2.70E-02	3.00E-02
BREMERTON	GORST AQ.	03/15/91	Co-60	<	1.00E-02	1.00E-02	2.00E-02
BREMERTON	GORST AQ.	03/15/91	Cs-137		1.30E-01	2.00E-02	2.00E-02
BREMERTON	GORST AQ.	03/15/91	Gross Beta		1.10E+01	2.00E+00	1.00E+00
BREMERTON	GORST AQ.	03/15/91	K-40		8.70E+00	4.00E-01	1.00E-01
BREMERTON	GORST AQ.	03/15/91	Ru-106	<	0.00E+00	1.00E-01	2.00E-01
BREMERTON	GORST AQ.	03/15/91	Zn-65	<	-4.90E-02	2.70E-02	4.00E-02
BREMERTON	GORST AQ.	03/15/91	Zr-95	<	1.00E-03	2.00E-02	3.00E-02
BREMERTON	STATION 7	03/15/91	Be-7		4.20E-01	2.40E-01	1.00E-01
BREMERTON	STATION 7	03/15/91	Co-60	<	5.00E-03	1.90E-02	2.00E-02
BREMERTON	STATION 7	03/15/91	Cs-137		1.80E-01	2.00E-02	2.00E-02
BREMERTON	STATION 7	03/15/91	Gross Beta		1.70E+01	2.00E+00	1.00E+00
BREMERTON	STATION 7	03/15/91	K-40		1.10E+01	1.00E+00	1.00E-01
BREMERTON	STATION 7	03/15/91	Ru-106	<	3.00E-02	1.60E-01	2.00E-01
BREMERTON	STATION 7	03/15/91	Zn-65	<	-4.20E-02	4.70E-02	4.00E-02
BREMERTON	STATION 7	03/15/91	Zr-95	<	-2.20E-02	2.30E-02	3.00E-02
BREMERTON	STATION 41	03/15/91	Be-7		3.80E-01	2.10E-01	1.00E-01
BREMERTON	STATION 41	03/15/91	Co-60	<	1.10E-02	1.40E-02	2.00E-02
BREMERTON	STATION 41	03/15/91	Cs-137		1.50E-01	3.00E-02	2.00E-02
BREMERTON	STATION 41	03/15/91	Gross Beta		1.40E+01	2.00E+00	1.00E+00
BREMERTON	STATION 41	03/15/91	K-40		8.10E+00	6.00E-01	1.00E-01
BREMERTON	STATION 41	03/15/91	Ru-106	<	-6.00E-02	1.30E-01	2.00E-01
BREMERTON	STATION 41	03/15/91	Zn-65	<	-1.00E-02	4.00E-03	4.00E-02
BREMERTON	STATION 41	03/15/91	Zr-95	<	2.30E-02	2.50E-02	3.00E-02
DMC	SW4	05/21/91	Ra-226(G)		1.30E+00	1.00E-01	8.00E-02
DMC	SW4	05/21/91	Th-230		1.07E+00	1.10E-01	1.00E-01
DMC	SW4	05/21/91	Th-232		1.17E+00	1.10E-01	1.40E-02
DMC	SW4	05/21/91	Total U(G)		2.70E+00	5.00E-01	4.00E-01
EDMONDS	OIL DOCK	05/29/91	Co-60	<	-2.50E-03	6.50E-03	2.00E-02
EDMONDS	OIL DOCK	05/29/91	Cs-137	<	1.50E-02	7.00E-03	2.00E-02
EDMONDS	OIL DOCK	05/29/91	Gross Beta	<	1.20E+01	2.00E-03	1.00E+00
EDMONDS	OIL DOCK	05/29/91	K-40		1.03E+01	3.00E-01	1.00E-01
EVERETT	MUKILTEO	05/13/91	Co-60	<	1.10E-02	6.00E-03	2.00E-02
EVERETT	MUKILTEO	05/13/91	Cs-137		2.80E-02	5.00E-03	2.00E-02
EVERETT	MUKILTEO	05/13/91	Gross Beta	<	7.00E+00	2.00E-03	1.00E+00
EVERETT	MUKILTEO	05/13/91	K-40		7.70E+00	3.00E-01	1.00E-01
EVERETT	CAMANO ISLAND	05/14/91	Be-7		1.48E-01	7.60E-02	1.00E-01
EVERETT	CAMANO ISLAND	05/14/91	Co-60	<	1.10E-02	5.00E-03	2.00E-02
EVERETT	CAMANO ISLAND	05/14/91	Cs-137		5.20E-02	1.10E-02	2.00E-02
EVERETT	CAMANO ISLAND	05/14/91	Gross Beta	<	4.00E+00	1.00E-03	1.00E+00
EVERETT	CAMANO ISLAND	05/14/91	K-40		7.90E+00	2.00E-01	1.00E-01
EVERETT	TULALIP	06/10/91	Co-60	<	4.90E-03	9.60E-03	2.00E-02
EVERETT	TULALIP	06/10/91	Cs-137		4.20E-02	1.51E-02	2.00E-02

TABLE A-8 CONTINUED

SEDIMENT ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
EVERETT	HAT ISLAND	06/10/91	Co-60	<	-4.80E-03	7.20E-03	2.00E-02
EVERETT	HAT ISLAND	06/10/91	Cs-137		5.40E-02	1.20E-02	2.00E-02
EVERETT	HAT ISLAND	06/10/91	Gross Beta	<	7.00E+00	2.00E-03	1.00E+00
EVERETT	HAT ISLAND	06/10/91	K-40		8.30E+00	3.00E-01	1.00E-01
EVERETT	WHIDBEY IS.	06/10/91	Co-60	<	8.00E-03	6.10E-03	2.00E-02
EVERETT	WHIDBEY IS.	06/10/91	Cs-137		3.40E-02	9.00E-03	2.00E-02
EVERETT	WHIDBEY IS.	06/10/91	Gross Beta	<	9.00E+00	2.00E-03	1.00E+00
EVERETT	WHIDBEY IS.	06/10/91	K-40		9.10E+00	2.00E-01	1.00E-01
EVERETT	KAYAK ST PARK	05/14/91	Co-60	<	7.30E-03	6.00E-03	2.00E-02
EVERETT	KAYAK ST PARK	05/14/91	Cs-137		4.70E-02	1.10E-02	2.00E-02
EVERETT	KAYAK ST PARK	05/14/91	Gross Beta	<	2.00E+00	1.00E-03	1.00E+00
EVERETT	KAYAK ST PARK	05/14/91	K-40		8.00E+00	2.00E-01	1.00E-01
JMC	STATION 2	05/23/91	Ra-226(G)		4.30E+00	1.00E-01	8.00E-02
JMC	STATION 2	05/23/91	Total U(G)		1.27E+02	2.00E+00	4.00E-01
WNP-2	STATION 33	04/10/91	Co-60	<	9.80E-03	4.10E-03	2.00E-02
WNP-2	STATION 33	04/10/91	Cs-134	<	-6.20E-02	1.00E-02	2.00E-02
WNP-2	STATION 33	04/10/91	Cs-137		1.10E-01	2.00E-02	2.00E-02
WNP-2	STATION 33	04/10/91	Gross Beta		1.80E+01	2.00E+00	1.00E+00
WNP-2	STATION 33	04/10/91	K-40		1.78E+01	4.00E-01	1.00E-01
WNP-2	STATION 34	04/10/91	Co-60		3.30E-02	1.40E-02	2.00E-02
WNP-2	STATION 34	04/10/91	Cs-134	<	-8.70E-02	1.10E-02	2.00E-02
WNP-2	STATION 34	04/10/91	Cs-137		4.20E-01	3.00E-02	2.00E-02
WNP-2	STATION 34	04/10/91	Gross Beta		1.90E+01	2.00E+00	1.00E+00

TABLE A-9

SHELLFISH ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
EDMONDS	OIL DOCK	05/29/91	Co-60	<	3.20E-03	7.20E-03	1.00E-02
EDMONDS	OIL DOCK	05/29/91	Cs-137	<	1.20E-03	7.00E-03	2.00E-02
EDMONDS	OIL DOCK	05/29/91	K-40		1.80E+00	2.00E-01	2.90E-01
EVERETT	CAMANO ISLAND	05/14/91	Co-60	<	4.30E-03	6.70E-03	1.00E-02
EVERETT	CAMANO ISLAND	05/14/91	Cs-137	<	1.00E-04	6.50E-03	2.00E-02
EVERETT	CAMANO ISLAND	05/14/91	K-40		1.90E+00	2.00E-01	2.90E-01
EVERETT	MUKILTEO	05/31/91	Co-60	<	4.30E-03	5.80E-03	1.00E-02
EVERETT	MUKILTEO	05/31/91	Cs-137	<	-2.10E-03	5.70E-03	2.00E-02
EVERETT	MUKILTEO	05/31/91	K-40		7.60E-01	1.40E-01	2.90E-01
EVERETT	TULALIP	06/10/91	Co-60	<	0.00E+00	1.10E-02	1.00E-02
EVERETT	TULALIP	06/10/91	Cs-137	<	-1.00E-04	7.80E-03	2.00E-02
EVERETT	TULALIP	06/10/91	K-40		1.90E+00	2.00E-01	2.90E-01
EVERETT	HAT ISLAND	06/10/91	Co-60	<	-3.60E-03	6.40E-03	1.00E-02
EVERETT	HAT ISLAND	06/10/91	Cs-137	<	3.80E-03	6.40E-03	2.00E-02
EVERETT	HAT ISLAND	06/10/91	K-40		7.20E-01	1.70E-01	2.90E-01
EVERETT	WHIDBEY ISLAND	06/10/91	Co-60	<	4.87E-03	6.60E-03	1.00E-02
EVERETT	WHIDBEY ISLAND	06/10/91	Cs-137	<	-3.70E-03	5.73E-03	2.00E-02
EVERETT	WHIDBEY ISLAND	06/10/91	K-40		1.91E+00	1.80E-01	2.90E-01
EVERETT	KAYAK ST. PARK	05/14/91	Co-60	<	7.40E-03	6.40E-03	1.00E-02
EVERETT	KAYAK ST. PARK	05/14/91	Cs-137	<	-3.10E-03	6.70E-03	2.00E-02
EVERETT	KAYAK ST. PARK	05/14/91	K-40		9.00E-01	1.80E-01	2.90E-01
HANFORD	COLUMBIA RIVER	11/27/91	Co-60	<	7.80E-03	1.54E-02	1.00E-02
HANFORD	COLUMBIA RIVER	11/27/91	Cs-137	<	7.40E-03	1.32E-02	2.00E-02
HANFORD	COLUMBIA RIVER	11/27/91	K-40		3.79E-01	2.41E-01	2.90E-01
HANFORD	COLUMBIA RIVER	11/27/91	Total U		1.26E-01	1.20E-02	6.00E-03
HANFORD	COLUMBIA RIVER	11/27/91	U-234		6.00E-02	8.00E-03	5.00E-03
HANFORD	COLUMBIA RIVER	11/27/91	U-238		5.60E-02	8.00E-03	3.00E-03

TABLE A-10

SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
DMC	2-3	09/18/91	Ra-226(G)		1.19E+01	1.00E-01	8.00E-02
DMC	2-3	09/18/91	Th-230		1.56E+01	4.00E-01	1.00E-01
DMC	2-3	09/18/91	Th-232		1.16E+00	1.10E-01	1.40E-02
DMC	2-3	09/18/91	Total U		2.72E+01	6.00E-01	2.00E-01
DMC	2-3	09/18/91	Total U(G)		2.33E+01	8.00E-01	4.00E-01
DMC	2-3	09/18/91	U-234		1.35E+01	4.00E-01	5.00E-03
DMC	2-3	09/18/91	U-238		1.31E+01	4.00E-01	3.00E-03
HANFORD	100N FIRESTA.	07/31/91	Co-60	<	-2.80E-03	1.39E-02	2.00E-02
HANFORD	100N FIRESTA.	07/31/91	Cs-137		3.36E-01	2.80E-02	2.00E-02
HANFORD	100N FIRESTA.	07/31/91	Gross Beta	<	2.20E-02	3.00E-03	1.00E+00
HANFORD	100N FIRESTA.	07/31/91	K-40		1.62E+01	6.00E-01	1.00E-01
HANFORD	100N FIRESTA.	07/31/91	Pu-238	<	1.20E-03	2.40E-03	3.00E-02
HANFORD	100N FIRESTA.	07/31/91	Pu-239/240		6.30E-03	2.00E-03	6.00E-03
HANFORD	100N FIRESTA.	07/31/91	Ra-226(G)		8.00E-01	3.30E-02	8.00E-02
HANFORD	100N FIRESTA.	07/31/91	Ru-106	<	3.90E-02	1.20E-01	2.00E-01
HANFORD	100N FIRESTA.	07/31/91	Sr-89	<	-5.00E-02	4.00E-02	3.00E-03
HANFORD	100N FIRESTA.	07/31/91	Sr-90		1.19E-01	7.00E-03	3.00E-03
HANFORD	100N FIRESTA.	07/31/91	Total U(G)		8.62E-01	4.12E-01	4.00E-01
HANFORD	100N FIRESTA.	07/31/91	U-234		4.23E-01	2.06E-01	5.00E-03
HANFORD	100N FIRESTA.	07/31/91	U-238(G)		4.39E-01	2.06E-01	4.00E-01
HANFORD	100N-1	07/31/91	Co-60		3.01E-01	2.10E-02	2.00E-02
HANFORD	100N-1	07/31/91	Cs-137		1.01E-01	1.60E-02	2.00E-02
HANFORD	100N-1	07/31/91	Gross Beta	<	2.10E-02	3.00E-03	1.00E+00
HANFORD	100N-1	07/31/91	K-40		1.59E+01	4.00E-01	1.00E-01
HANFORD	100N-1	07/31/91	Pu-238	<	2.00E-04	2.20E-03	3.00E-02
HANFORD	100N-1	07/31/91	Pu-239/240	<	8.60E-04	9.60E-04	6.00E-03
HANFORD	100N-1	07/31/91	Ra-226(G)		4.56E-01	1.70E-02	8.00E-02
HANFORD	100N-1	07/31/91	Ru-106	<	-3.56E-02	7.41E-02	2.00E-01
HANFORD	100N-1	07/31/91	Sr-89	<	-5.80E+00	2.10E+00	3.00E-03
HANFORD	100N-1	07/31/91	Sr-90		1.33E+00	2.00E-02	3.00E-03
HANFORD	100N-1	07/31/91	Total U(G)		9.24E-01	2.50E-01	4.00E-01
HANFORD	100N-1	07/31/91	U-234(G)		4.53E-01	1.25E-01	0.00E+00
HANFORD	100N-1	07/31/91	U-238(G)		4.71E-01	1.25E-01	4.00E-01
HANFORD	200ESE	07/31/91	Co-60	<	6.27E-03	7.20E-03	2.00E-02
HANFORD	200ESE	07/31/91	Cs-137		5.04E-01	1.50E-02	2.00E-02
HANFORD	200ESE	07/31/91	Gross Beta	<	1.90E-02	3.00E-03	1.00E+00
HANFORD	200ESE	07/31/91	K-40		1.52E+01	3.00E-01	1.00E-01
HANFORD	200ESE	07/31/91	Pu-238	<	-5.00E-04	3.00E-03	3.00E-02
HANFORD	200ESE	07/31/91	Pu-239/240	<	4.00E-03	2.10E-03	6.00E-03
HANFORD	200ESE	07/31/91	Ra-226(G)		6.70E-01	1.70E-02	8.00E-02
HANFORD	200ESE	07/31/91	Ru-106	<	1.23E-02	6.11E-02	2.00E-01
HANFORD	200ESE	07/31/91	Sr-89	<	-2.80E-02	3.00E-02	3.00E-03
HANFORD	200ESE	07/31/91	Sr-90		1.06E-01	6.00E-03	3.00E-03
HANFORD	200ESE	07/31/91	Total U(G)		7.23E-01	2.20E-01	4.00E-01
HANFORD	200ESE	07/31/91	U-234		3.55E-01	1.10E-01	5.00E-03
HANFORD	200ESE	07/31/91	U-238(G)	<	3.68E-01	1.10E-01	4.00E-01
HANFORD	200GTE	07/31/91	Co-60	<	-1.54E-03	9.23E-03	2.00E-02
HANFORD	200GTE	07/31/91	Cs-137		1.76E-01	1.50E-02	2.00E-02
HANFORD	200GTE	07/31/91	Gross Beta	<	2.10E-02	3.00E-03	1.00E+00
HANFORD	200GTE	07/31/91	K-40		1.52E+01	4.00E-01	1.00E-01

TABLE A-10 CONTINUED

SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	200GTE	07/31/91	Pu-238	<	1.20E-03	3.50E-03	3:00E-02
HANFORD	200GTE	07/31/91	Pu-239/240	<	2.80E-03	1.90E-03	6.00E-03
HANFORD	200GTE	07/31/91	Ra-226		7.62E-01	2.30E-02	1.00E-01
HANFORD	200GTE	07/31/91	Ru-106	<	6.19E-02	9.76E-02	2.00E-01
HANFORD	200GTE	07/31/91	Sr-89	<	-4.00E-03	3.00E-02	3.00E-03
HANFORD	200GTE	07/31/91	Sr-90		5.70E-02	5.00E-03	3.00E-03
HANFORD	200GTE	07/31/91	Total U		1.47E+00	3.10E-01	2.00E-01
HANFORD	200GTE	07/31/91	U-234		7.21E-01	1.55E-01	5.00E-03
HANFORD	200GTE	07/31/91	U-238		7.49E-01	1.55E-01	3.00E-03
HANFORD	E200E	07/31/91	Am-241(G)		1.40E-01	4.00E-02	6.00E-02
HANFORD	E200E	07/31/91	Co-60		6.62E-02	1.28E-02	2.00E-02
HANFORD	E200E	07/31/91	Cs-137		1.45E+00	3.00E-02	2.00E-02
HANFORD	E200E	07/31/91	Gross Beta	<	2.20E-02	3.00E-03	1.00E+00
HANFORD	E200E	07/31/91	K-40		1.35E+01	3.00E-01	1.00E-01
HANFORD	E200E	07/31/91	Pu-238	<	1.20E-03	1.90E-03	3.00E-02
HANFORD	E200E	07/31/91	Pu-239/240		1.20E-02	2.00E-03	6.00E-03
HANFORD	E200E	07/31/91	Ra-226(G)		7.98E-01	2.00E-02	8.00E-02
HANFORD	E200E	07/31/91	Ru-106	<	-8.00E-03	7.02E-02	2.00E-01
HANFORD	E200E	07/31/91	Sr-89	<	-7.00E-02	5.00E-02	3.00E-03
HANFORD	E200E	07/31/91	Sr-90		2.80E-01	1.00E-02	3.00E-03
HANFORD	E200E	07/31/91	Total U(G)		1.41E+00	4.30E-01	4.00E-01
HANFORD	E200E	07/31/91	U-234		6.93E-01	2.17E-01	5.00E-03
HANFORD	E200E	07/31/91	U-238(G)		7.20E-01	2.17E-01	4.00E-01
HANFORD	MOSES LAKE	08/01/91	Co-60	<	7.00E-03	1.41E-02	2.00E-02
HANFORD	MOSES LAKE	08/01/91	Cs-137	<	9.00E-03	1.51E-02	2.00E-02
HANFORD	MOSES LAKE	08/01/91	Gross Beta	<	2.20E-02	3.00E-03	1.00E+00
HANFORD	MOSES LAKE	08/01/91	K-40		1.46E+01	6.00E-01	1.00E-01
HANFORD	MOSES LAKE	08/01/91	Pu-238	<	-1.00E-04	2.20E-03	3.00E-02
HANFORD	MOSES LAKE	08/01/91	Pu-239/240	<	3.00E-04	8.00E-04	6.00E-03
HANFORD	MOSES LAKE	08/01/91	Ra-226(G)		8.15E-01	3.60E-02	8.00E-02
HANFORD	MOSES LAKE	08/01/91	Ru-106	<	4.10E-02	1.20E-01	2.00E-01
HANFORD	MOSES LAKE	08/01/91	Sr-89	<	5.00E-03	2.00E-02	3.00E-03
HANFORD	MOSES LAKE	08/01/91	Sr-90		8.00E-03	4.00E-03	3.00E-03
HANFORD	MOSES LAKE	08/01/91	Total U(G)		2.08E+00	4.60E-01	4.00E-01
HANFORD	MOSES LAKE	08/01/91	U-234		1.02E+00	2.30E-01	5.00E-03
HANFORD	MOSES LAKE	08/01/91	U-238(G)		1.06E+00	2.30E-01	4.00E-01
HANFORD	N200E	07/31/91	Co-60	<	-7.10E-03	1.41E-02	2.00E-02
HANFORD	N200E	07/31/91	Cs-137		1.62E+00	4.00E-02	2.00E-02
HANFORD	N200E	07/31/91	Gross Beta	<	2.30E-02	3.00E-03	1.00E+00
HANFORD	N200E	07/31/91	K-40		1.65E+01	6.00E-01	1.00E-01
HANFORD	N200E	07/31/91	Pu-238	<	-3.00E-04	1.70E-03	3.00E-02
HANFORD	N200E	07/31/91	Pu-239/240	<	5.00E-03	1.70E-03	6.00E-03
HANFORD	N200E	07/31/91	Ra-226(G)		8.48E-01	3.20E-02	8.00E-02
HANFORD	N200E	07/31/91	Ru-106	<	8.10E-02	1.19E-01	2.00E-01
HANFORD	N200E	07/31/91	Sr-89	<	-2.00E-03	7.00E-02	3.00E-03
HANFORD	N200E	07/31/91	Sr-90		2.31E-01	1.20E-02	3.00E-03
HANFORD	N200E	07/31/91	Total U(G)		1.04E+00	5.00E-01	4.00E-01
HANFORD	N200E	07/31/91	U-234		5.09E+01	2.51E-01	5.00E-03
HANFORD	N200E	07/31/91	U-238(G)		5.29E-01	2.51E-01	4.00E-01
HANFORD	HANFORD TOWN	07/31/91	Co-60	<	-2.16E-03	7.73E-03	2.00E-02
HANFORD	HANFORD TOWN	07/31/91	Cs-137		2.63E-01	1.40E-02	2.00E-02
HANFORD	HANFORD TOWN	07/31/91	Gross Beta	<	1.90E-02	3.00E-03	1.00E+00
HANFORD	HANFORD TOWN	07/31/91	K-40		1.61E+01	3.00E-01	1.00E-01
HANFORD	HANFORD TOWN	07/31/91	Pu-238	<	2.60E-03	4.30E-03	3.00E-02
HANFORD	HANFORD TOWN	07/31/91	Pu-239/240	<	3.60E-03	2.30E-03	6.00E-03
HANFORD	HANFORD TOWN	07/31/91	Ra-226(G)		7.07E-01	1.90E-02	8.00E-02
HANFORD	HANFORD TOWN	07/31/91	Ru-106	<	-3.60E-03	6.85E-02	2.00E-01

TABLE A-10 CONTINUED

SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	HANFORD TOWN	07/31/91	Sr-89	<	-3.00E-02	2.00E-02	3.00E-03
HANFORD	HANFORD TOWN	07/31/91	Sr-90		5.00E-02	1.00E-02	3.00E-03
HANFORD	HANFORD TOWN	07/31/91	Total U(G)		2.12E+00	2.40E-01	4.00E-01
HANFORD	HANFORD TOWN	07/31/91	U-234		1.04E+00	1.20E-01	5.00E-03
HANFORD	HANFORD TOWN	07/31/91	U-238(G)		1.08E+00	1.20E-01	4.00E-01
HANFORD	RT 11A-9	07/31/91	Co-60	<	-3.80E-04	8.21E-03	2.00E-02
HANFORD	RT 11A-9	07/31/91	Cs-137		3.08E-01	1.70E-02	2.00E-02
HANFORD	RT 11A-9	07/31/91	Gross Beta	<	2.10E-02	3.00E-03	1.00E+00
HANFORD	RT 11A-9	07/31/91	K-40		1.59E+01	4.00E-01	1.00E-01
HANFORD	RT 11A-9	07/31/91	Pu-238	<	-7.00E-04	2.90E-03	3.00E-02
HANFORD	RT 11A-9	07/31/91	Pu-239/240		8.40E-03	2.80E-03	6.00E-03
HANFORD	RT 11A-9	07/31/91	Ra-226(G)		7.72E-01	2.00E-02	8.00E-02
HANFORD	RT 11A-9	07/31/91	Ru-106	<	4.55E-02	7.23E-02	2.00E-01
HANFORD	RT 11A-9	07/31/91	Sr-89	<	-1.30E-02	3.00E-02	3,00E-03
HANFORD	RT 11A-9	07/31/91	Sr-90		5.80E-02	5.00E-03	3.00E-03
HANFORD	RT 11A-9	07/31/91	Total U(G)		9.95E-01	2.14E-01	4.00E-01
HANFORD	RT 11A-9	07/31/91	U-234		4.88E-01	1.07E-01	5.00E-03
HANFORD	RT 11A-9	07/31/91	U-238(G)		5.07E-01	1.07E-01	4.00E-01
HANFORD	SUNNYSIDE	08/01/91	Co-60	<	4.50E-03	1.38E-02	2.00E-02
HANFORD	SUNNYSIDE	08/01/91	Cs-137		8.20E-02	1.96E-02	2.00E-02
HANFORD	SUNNYSIDE	08/01/91	Gross Beta	<	2.00E-02	3.00E-03	1.00E+00
HANFORD	SUNNYSIDE	08/01/91	K-40		1.31E+01	6.00E-01	1.00E-01
HANFORD	SUNNYSIDE	08/01/91	Pu-238	<	2.50E-03	3.20E-03	3.00E-02
HANFORD	SUNNYSIDE	08/01/91	Pu-239/240	<	1.40E-03	1.40E-03	6.00E-03
HANFORD	SUNNYSIDE	08/01/91	Ra-226(G)		6.52E-01	2.90E-02	8.00E-02
HANFORD	SUNNYSIDE	08/01/91	Ru-106	<	1.80E-02	1.13E-01	2.00E-01
HANFORD	SUNNYSIDE	08/01/91	Sr-89	<	2.00E-03	2.00E-02	3.00E-03
HANFORD	SUNNYSIDE	08/01/91	Sr-90		2.40E-02	4.00E-03	3.00E-03
HANFORD	SUNNYSIDE	08/01/91	Total U(G)		1.30E+00	4.40E-01	4.00E-01
HANFORD	SUNNYSIDE	08/01/91	U-234		6.39E-01	2.18E-01	5.00E-03
HANFORD	SUNNYSIDE	08/01/91	U-238(G)		6.63E-01	2.18E-01	4.00E-01
HANFORD	WYE B.	07/31/91	Co-60	<	-2.30E-03	7.50E-03	2.00E-02
HANFORD	WYE B.	07/31/91	Cs-137		1.19E+00	2.00E-02	2.00E-02
HANFORD	WYE B.	07/31/91	Gross Beta	<	2.20E-02	3.00E-03	1.00E+00
HANFORD	WYE B.	07/31/91	K-40		1.64E+01	3.00E-01	1.00E-01
HANFORD	WYE B.	07/31/91	Pu-238	<	3.00E-04	2.90E-03	3.00E-02
HANFORD	WYE B.	07/31/91	Pu-239/240		1.30E-02	3.00E-03	6.00E-03
HANFORD	WYE B.	07/31/91	Ra-226(G)		6.10E-01	1.70E-02	8.00E-02
HANFORD	WYE B.	07/31/91	Ru-106	<	3.90E-02	6.60E-02	2.00E-01
HANFORD	WYE B.	07/31/91	Sr-89	<	-5.50E-02	3.00E-02	3.00E-03
HANFORD	WYE B.	07/31/91	Sr-90		1.64E-01	7.00E-03	3.00E-03
HANFORD	WYE B.	07/31/91	Total U(G)		5.83E-01	2.30E-01	4.00E-01
HANFORD	WYE B.	07/31/91	U-234		2.86E-01	1.15E-01	5.00E-03
HANFORD	WYE B.	07/31/91	U-238(G)	<	2.97E-01	1.15E-01	4.00E-01
HANFORD	YAKIMA B.	07/31/91	Co-60	<	-3.61E-03	8.31E-03	2.00E-02
HANFORD	YAKIMA B.	07/31/91	Cs-137		3.77E-01	1.70E-02	2.00E-02
HANFORD	YAKIMA B.	07/31/91	Gross Beta	<	2.20E-02	3.00E-03	1.00E+00
HANFORD	YAKIMA B.	07/31/91	K-40		1.58E+01	4.00E-01	1.00E-01
HANFORD	YAKIMA B.	07/31/91	Pu-238	<	1.00E-04	1.70E-03	3.00E-02
HANFORD	YAKIMA B.	07/31/91	Pu-239/240		7.10E-03	1.90E-03	6.00E-03
HANFORD	YAKIMA B.	07/31/91	Ra-226(G)		7.80E-01	1.90E-02	8.00E-02
HANFORD	YAKIMA B.	07/31/91	Ru-106	<	7.02E-02	7.10E-02	2.00E-01
HANFORD	YAKIMA B.	07/31/91	Sr-89	<	-1.00E-02	3.00E-02	3.00E-03
HANFORD	YAKIMA B.	07/31/91	Sr-90		1.10E-01	1.00E-02	3.00E-03
HANFORD	YAKIMA B.	07/31/91	Total U(G)		1.04E+00	2.60E-01	4.00E-01
HANFORD	YAKIMA B.	07/31/91	U-234		5.10E-01	1.31E-01	5.00E-03
HANFORD	YAKIMA B.	07/31/91	U-238(G)		5.30E-01	1.31E-01	4.00E-01

TABLE A-10 CONTINUED

SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
RICHLAND	PN SYSTEMS	11/29/91	Be-7		2.84E-01	1.81E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		8.08E-02	2.55E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.62E+01	7.00E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7	<	1.34E-01	1.54E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Co-60		8.60E-02	2.50E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		1.07E-01	3.00E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		6.31E+00	4.80E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7	<	3.32E-01	3.45E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Cs-137	<	2.12E-01	5.38E-01	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.54E+01	1.00E+00	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7		5.56E-01	3.16E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Co-60	<	2.63E-02	4.04E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		2.26E-01	4.20E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.46E+01	9.00E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7		3.41E-01	1.72E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Co-60		6.66E-02	1.68E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		3.18E-02	1.54E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.90E+00	3.10E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7		3.72E-01	2.55E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		7.93E-01	4.50E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.00E+01	6.00E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7		6.03E-01	5.12E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Co-60		2.57E+00	1.30E-01	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		3.62E-01	6.60E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.08E+01	9.00E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Be-7		9.58E-01	5.30E-01	1.00E-01
RICHLAND	PN SYSTEMS	11/29/91	Cs-137		3.38E-01	6.70E-02	2.00E-02
RICHLAND	PN SYSTEMS	11/29/91	K-40		1.38E+01	1.00E+00	1.00E-01
USE	STATION 5	11/05/91	Co-60	<	-6.20E-03	8.30E-03	2.00E-02
USE	STATION 5	11/05/91	Cs-137		2.59E-02	1.38E-02	2.00E-02
USE	STATION 5	11/05/91	Gross Beta		1.90E+01	2.00E+00	1.00E+00
USE	STATION 5	11/05/91	Pu-238	<	-1.00E-03	3.00E-03	3.00E-02
USE	STATION 5	11/05/91	Pu-239/240	<	1.00E-03	2.00E-03	6.00E-03
USE	STATION 5	11/05/91	Ru-106	<	8.40E-02	7.10E-02	2.00E-01
USE	STATION 5	11/05/91	Total U(G)		1.07E+00	3.20E-01	4.00E-01
USE	STATION 8	11/06/91	Co-60	<	4.49E-03	8.09E-03	2.00E-02
USE	STATION 8	11/06/91	Cs-137		2.59E-02	1.00E-02	2.00E-02
USE	STATION 8	11/06/91	Gross Beta		2.00E+01	2.20E+00	1.00E+00
USE	STATION 8	11/06/91	Pu-238	<	-1.00E-03	3.00E-03	3.00E-02
USE	STATION 8	11/06/91	Pu-239/240	<	1.00E-03	1.00E-03	6.00E-03
USE	STATION 8	11/06/91	Ru-106	<	2.41E-02	6.98E-02	2.00E-01
USE	STATION 8	11/06/91	Total U(G)		9.60E-01	3.18E-01	4.00E-01
USE	NE CORNER	11/06/91	Co-60	<	-1.30E-03	7.70E-03	2.00E-02
USE	NE CORNER	11/06/91	Cs-137		1.65E-01	1.30E-02	2.00E-02
USE	NE CORNER	11/06/91	Gross Beta		1.80E+01	2.00E+00	1.00E+00
USE	NE CORNER	11/06/91	Pu-238	<	1.00E-03	4.00E-03	3.00E-02
USE	NE CORNER	11/06/91	Pu-239/240	<	2.00E-03	2.00E-03	6.00E-03
USE	NE CORNER	11/06/91	Ru-106	<	4.44E-02	6.99E-02	2.00E-01
USE	NE CORNER	11/06/91	Total U(G)		1.10E+00	3.30E-01	4.00E-01
USE	NW CORNER	11/06/91	Be-7		2.25E-01	1.21E-01	1.00E-01
USE	NW CORNER	11/06/91	Co-60	<	4.80E-04	8.34E-03	2.00E-02
USE	NW CORNER	11/06/91	Cs-137		2.43E-01	1.40E-02	2.00E-02
USE	NW CORNER	11/06/91	Gross Beta		2.01E+01	2.20E+00	1.00E+00
USE	NW CORNER	11/06/91	Pu-238	<	6.00E-03	4.00E-03	3.00E-02
USE	NW CORNER	11/06/91	Pu-239/240	<	4.00E-03	3.00E-03	6.00E-03
USE	NW CORNER	11/06/91	Ru-106	<	5.10E-03	7.32E-02	2.00E-01
USE	NW CORNER	11/06/91	Total U(G)	<	1.03E-01	3.20E-02	4.00E-01

TABLE A-10 CONTINUED

SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
USE	LAB BLDG.	11/06/91	Co-60	<	7.24E-03	8.19E-03	2.00E-02
USE	LAB BLDG.	11/06/91	Cs-137	<	1.65E-02	1.14E-02	2.00E-02
USE	LAB BLDG.	11/06/91	Gross Beta		1.80E+01	2.00E+00	1.00E+00
USE	LAB BLDG.	11/06/91	Pu-238	<	-1.00E-03	3.00E-03	3.00E-02
USE	LAB BLDG.	11/06/91	Pu-239/240	<	1.00E-03	2.00E-03	6.00E-03
USE	LAB BLDG.	11/06/91	Ru-106	<	-2.73E-02	7.54E-02	2.00E-01
USE	LAB BLDG.	11/06/91	Total U(G)		1.01E+00	3.40E-01	4.00E-01
WNI	C	09/19/91	Ra-226(G)		1.39E+00	4.00E-02	8.00E-02
WNI	C	09/19/91	Th-230		1.77E+00	1.20E-01	1.00E-01
WNI	C	09/19/91	Th-232		1.99E+00	1.20E-01	1.40E-02
WNI	C	09/19/91	Total U		3.15E+00	1.70E-01	2.00E-01
WNI	C	09/19/91	Total U(G)		3.63E+00	4.30E-01	4.00E-01
WNI	C	09/19/91	U-234		1.37E+00	1.10E-01	5.00E-03
WNI	C	09/19/91	U-238		1.65E+00	1.20E-01	3.00E-03
WNP-2	CONNELL	08/01/91	Be-7		1.98E-01	9.10E-02	1.00E-01
WNP-2	CONNELL	08/01/91	Co-60	<	3.66E-03	7.31E-03	2.00E-02
WNP-2	CONNELL	08/01/91	Cs-137		3.30E-01	1.60E-02	2.00E-02
WNP-2	CONNELL	08/01/91	Gross Beta	<	1.80E-02	3.00E-03	1.00E+00
WNP-2	CONNELL	08/01/91	K-40		1.36E+01	3.00E-01	1.00E-01
WNP-2	CONNELL	08/01/91	Pu-238	<	9.00E-04	2.80E-03	3.00E-02
WNP-2	CONNELL	08/01/91	Pu-239/240	<	2.20E-03	1.50E-03	6.00E-03
WNP-2	CONNELL	08/01/91	Ra-226(G)		5.06E-01	1.80E-02	8.00E-02
WNP-2	CONNELL	08/01/91	Ru-106	<	-1.52E-02	6.53E-02	2.00E-01
WNP-2	CONNELL	08/01/91	Sr-89	<	2.00E-02	2.00E-02	3.00E-03
WNP-2	CONNELL	08/01/91	Sr-90		5.50E-02	4.00E-03	3.00E-03
WNP-2	CONNELL	08/01/91	Total U(G)		9.35E-01	2.38E-01	4.00E-01
WNP-2	CONNELL	08/01/91	U-234		4.59E-01	1.19E-01	5.00E-03
WNP-2	CONNELL	08/01/91	U-238(G)		4.76E-01	1.19E-01	4.00E-01
WNP-2	STATION 1	05/16/91	Co-60	<	-2.36E-01	8.00E-03	2.00E-02
WNP-2	STATION 1	05/16/91	Cs-137		6.37E-01	2.40E-02	2.00E-02
WNP-2	STATION 1	05/16/91	Gross Beta		1.85E+01	2.10E+00	1.00E+00
WNP-2	STATION 21	05/16/91	Co-60	<	8.32E-03	8.44E-03	2.00E-02
WNP-2	STATION 21	05/16/91	Cs-137		3.55E-02	1.21E-02	2.00E-02
WNP-2	STATION 21	05/16/91	Gross Beta		1.86E+01	2.10E+00	1.00E+00
WNP-2	STATION 23	05/16/91	Co-60	<	8.37E-03	8.05E-03	2.00E-02
WNP-2	STATION 23	05/16/91	Cs-137		6.17E-01	2.50E-02	2.00E-02
WNP-2	STATION 23	05/16/91	Gross Beta		1.99E+01	2.20E+00	1.00E+00
YAKIMA	YAK. AIRPORT	08/01/91	Co-60	<	-2.99E-03	7.79E-03	2.00E-02
YAKIMA	YAK. AIRPORT	08/01/91	Cs-137		3.72E-01	1.80E-02	2.00E-02
YAKIMA	YAK. AIRPORT	08/01/91	Gross Beta	<	1.80E-02	3.00E-03	1.00E+00
YAKIMA	YAK. AIRPORT	08/01/91	K-40		1.29E+01	3.00E-01	1.00E-01
YAKIMA	YAK. AIRPORT	08/01/91	Pu-238	<	0.00E+00	2.60E-03	3.00E-02
YAKIMA	YAK. AIRPORT	08/01/91	Pu-239/240		8.70E-03	2.70E-03	6.00E-03
YAKIMA	YAK. AIRPORT	08/01/91	Ra-226(G)		6.97E-01	2.10E-02	8.00E-02
YAKIMA	YAK. AIRPORT	08/01/91	Ru-106	<	-3.28E-02	7.12E-02	2.00E-01
YAKIMA	YAK. AIRPORT	08/01/91	Sr-89	<	-2.30E-02	4.00E-02	3.00E-03
YAKIMA	YAK. AIRPORT	08/01/91	Sr-90		1.04E-01	7.00E-03	3.00E-03
YAKIMA	YAK. AIRPORT	08/01/91	Total U(G)		1.15E+00	2.60E-01	4.00E-01
YAKIMA	YAK. AIRPORT	08/01/91	U-234		5.63E-01	1.30E-01	5.00E-03
YAKIMA	YAK. AIRPORT	08/01/91	U-238(G)		5.85E-01	1.30E-01	4.00E-01

TABLE A-11

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
BREMERTON	STATION 3	03/15/91	Co-60	<	1.40E+00	1.00E+00	3.00E+00
BREMERTON	STATION 3	03/15/91	Cs-137	<	5.10E-01	9.90E-01	3.00E+00
BREMERTON	STATION 3	03/15/91	H-3	<	1.00E+01	8.50E+01	3.50E+02
BREMERTON	STATION 3	03/15/91	K-40		2.88E+02	2.80E+01	4.00E+01
BREMERTON	STATION 3	03/15/91	Ru-106	<	-4.20E+00	9.50E+00	2.10E+01
BREMERTON	STATION 3	03/15/91	Zn-65	<	-3.10E+00	2.20E+00	5.00E+00
BREMERTON	STATION 3	03/15/91	Zr-95	<	9.00E-01	1.00E+00	5.00E+00
BREMERTON	STATION 3	03/15/91	Co-60	<	5.00E-01	1.20E+00	3.00E+00
BREMERTON	STATION 3	03/15/91	Cs-137	<	1.00E-01	1.00E+00	3.00E+00
BREMERTON	STATION 3	03/15/91	H-3	<	2.70E+01	8.60E+01	3.50E+02
BREMERTON	STATION 3	03/15/91	K-40		3.01E+02	3.00E+01	4.00E+01
BREMERTON	STATION 3	03/15/91	Ru-106	<	1.60E+00	9.00E+00	2.10E+01
BREMERTON	STATION 3	03/15/91	Zn-65	<	-9.00E-01	2.10E+00	5.00E+00
BREMERTON	STATION 3	03/15/91	Zr-95	<	-2.00E-01	1.00E+00	5.00E+00
BREMERTON	STATION 4	03/15/91	Co-60	<	9.00E-01	1.20E+00	3.00E+00
BREMERTON	STATION 4	03/15/91	Cs-137	<	4.00E-01	1.10E+00	3.00E+00
BREMERTON	STATION 4	03/15/91	H-3	<	2.50E+01	8.50E+01	3.50E+02
BREMERTON	STATION 4	03/15/91	K-40		2.71E+02	3.20E+01	4.00E+01
BREMERTON	STATION 4	03/15/91	Ru-106	<	-3.80E+00	9.50E+00	2.10E+01
BREMERTON	STATION 4	03/15/91	Zn-65	<	-1.90E+00	2.40E+00	5.00E+00
BREMERTON	STATION 4	03/15/91	Zr-95	<	8.00E-01	1.20E+00	5.00E+00
BREMERTON	STATION 7	03/15/91	Co-60	<	1.70E+00	9.00E-01	3.00E+00
BREMERTON	STATION 7	03/15/91	Cs-137	<	-6.00E-01	1.00E+00	3.00E+00
BREMERTON	STATION 7	03/15/91	H-3	<	-3.60E+01	8.30E+01	3.50E+02
BREMERTON	STATION 7	03/15/91	K-40		3.14E+02	2.90E+01	4.00E+01
BREMERTON	STATION 7	03/15/91	Ru-106	<	-1.20E+00	9.50E+00	2.10E+01
BREMERTON	STATION 7	03/15/91	Zn-65	<	-1.10E+00	2.10E+00	5.00E+00
BREMERTON	STATION 7	03/15/91	Zr-95	<	7.00E-01	1.00E+00	5.00E+00
BREMERTON	STATION 41	03/15/91	Co-60	<	2.20E+00	1.00E+00	3.00E+00
BREMERTON	STATION 41	03/15/91	Cs-137	<	6.00E-01	1.00E+00	3.00E+00
BREMERTON	STATION 41	03/15/91	H-3	<	3.10E+01	8.50E+01	3.50E+02
BREMERTON	STATION 41	03/15/91	K-40		2.77E+02	2.70E+01	4.00E+01
BREMERTON	STATION 41	03/15/91	Ru-106	<	-2.90E+00	9.40E+00	2.10E+01
BREMERTON	STATION 41	03/15/91	Zn-65	<	1.00E-01	2.20E+00	5.00E+00
BREMERTON	STATION 41	03/15/91	Zr-95	<	0.00E+00	1.10E-01	5.00E+00
CEDAR R.	LANDSBERG	01/09/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
CEDAR R.	LANDSBERG	01/09/91	H-3	<	5.70E+01	8.90E+01	3.50E+02
CEDAR R.	LANDSBERG	01/30/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
CEDAR R.	LANDSBERG	01/30/91	H-3	<	-5.50E+01	8.50E+01	3.50E+02
CEDAR R.	LANDSBERG	02/14/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
CEDAR R.	LANDSBERG	02/14/91	H-3	<	4.20E+01	8.50E+01	3.50E+02
CEDAR R.	LANDSBERG	03/13/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
CEDAR R.	LANDSBERG	03/13/91	H-3	<	-3.40E+01	8.50E+01	3.50E+02
CEDAR R.	LANDSBERG	04/10/91	Gross Beta	<	3.00E-01	6.00E-01	1.00E+00

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
CEDAR R.	LANDSBERG	04/10/91	H-3	<	1.32E+02	9.00E+01	3.50E+02
CEDAR R.	LANDSBERG	05/14/91	Gross Beta	<	1.50E-01	6.30E-01	1.00E+00
CEDAR R.	LANDSBERG	05/14/91	H-3	<	-3.60E-01	8.50E-01	3.50E+02
CEDAR R.	LANDSBERG	06/17/91	Gross Beta	<	1.40E-01	6.20E-01	1.00E+00
CEDAR R.	LANDSBERG	06/17/91	H-3	<	-9.40E+01	8.40E+01	3.50E+02
CEDAR R.	LANDSBERG	07/18/91	Gross Beta	<	3.00E-02	6.00E-01	1.00E+00
CEDAR R.	LANDSBERG	07/18/91	H-3	<	2.50E+01	8.70E+01	3.50E+02
CEDAR R.	LANDSBERG	08/12/91	Gross Beta	<	1.60E-01	6.30E-01	1.00E+00
CEDAR R.	LANDSBERG	08/12/91	H-3	<	2.80E+01	8.80E+01	3.50E+02
CEDAR R.	LANDSBERG	09/05/91	Gross Beta	<	2.30E-01	6.40E-01	1.00E+00
CEDAR R.	LANDSBERG	09/05/91	H-3	<	-2.20E+01	8.60E+01	3.50E+02
CEDAR R.	LANDSBERG	10/08/91	Gross Beta	<	-1.10E-01	6.40E-01	1.00E+00
CEDAR R.	LANDSBERG	10/08/91	H-3	<	6.20E+01	8.80E+01	3.50E+02
CEDAR R.	LANDSBERG	11/13/91	Gross Beta	<	3.00E-01	7.00E-01	1.00E+00
CEDAR R.	LANDSBERG	11/13/91	H-3	<	6.00E+00	8.60E+01	3.50E+02
CEDAR R.	LANDSBERG	12/09/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
CEDAR R.	LANDSBERG	12/09/91	H-3	<	8.70E+01	8.90E+01	3.50E+02
DMC	SW2D	05/21/91	Condct.		3.16E+03	1.60E+02	0.00E+00
DMC	SW2D	05/21/91	Ra-226	<	-7.00E-03	8.10E-02	7.00E-02
DMC	SW2D	05/21/91	TDS		3.28E+03	1.60E+02	0.00E+00
DMC	SW2D	05/21/91	Th-230	<	1.00E-02	7.00E-02	1.00E-01
DMC	SW2D	05/21/91	Total U	<	2.68E-02	5.00E+00	2.00E-01
DMC	SW4	05/21/91	Condct.		3.70E+02	1.90E+01	0.00E+00
DMC	SW4	05/21/91	Ra-226	<	2.60E-02	8.90E-02	7.00E-02
DMC	SW4	05/21/91	TDS		2.20E+02	1.10E+01	0.00E+00
DMC	SW4	05/21/91	Th-230	<	-1.00E-02	7.00E-02	1.00E-01
DMC	SW4	05/21/91	Total U		4.60E+00	3.00E-01	2.00E-01
DMC	SW4	09/18/91	Condct.		4.80E+02	2.40E+01	0.00E+00
DMC	SW4	09/18/91	Ra-226	<	0.00E+00	1.31E-01	7.00E-02
DMC	SW4	09/18/91	TDS		2.90E+02	1.50E+01	0.00E+00
DMC	SW4	09/18/91	Th-230	<	-9.70E-02	5.70E-02	1.00E-01
DMC	SW4	09/18/91	Total U		5.85E+00	3.70E-01	2.00E-01
DMC	SW5	05/21/91	Condct.		1.90E+02	1.00E+01	0.00E+00
DMC	SW5	05/21/91	Ra-226	<	2.60E-02	9.30E-02	7.00E-02
DMC	SW5	05/21/91	TDS		1.10E+02	6.00E+00	0.00E+00
DMC	SW5	05/21/91	Th-230	<	1.00E-02	7.00E-02	1.00E-01
DMC	SW5	05/21/91	Total U		6.38E-01	1.68E-01	2.00E-01
DMC	SW5	09/18/91	Condct.		3.20E+02	1.60E+01	0.00E+00
DMC	SW5	09/18/91	Ra-226	<	-5.20E-02	1.20E-01	7.00E-02
DMC	SW5	09/18/91	TDS		1.90E+02	1.00E+01	0.00E+00
DMC	SW5	09/18/91	Th-230	<	2.30E-02	5.90E-02	1.00E-01
DMC	SW5	09/18/91	Total U		6.68E-01	1.33E-01	2.00E-01
JMC	STATION 2	05/23/91	Condct.		6.00E+01	3.00E+00	0.00E+00
JMC	STATION 2	05/23/91	Ra-226	<	5.90E-02	8.30E-02	7.00E-02
JMC	STATION 2	05/23/91	TDS		8.00E+01	4.00E+00	0.00E+00
JMC	STATION 2	05/23/91	Total U		8.37E+00	4.40E-01	2.00E-01
JMC	STATION 2	09/18/91	Condct.		1.00E+02	5.00E+00	0.00E+00
JMC	STATION 2	09/18/91	Ra-226	<	-3.30E-02	1.34E-01	7.00E-02
JMC	STATION 2	09/18/91	TDS		7.00E+01	4.00E+00	0.00E+00
JMC	STATION 2	09/18/91	Total U		3.04E+00	2.70E-01	2.00E-01
PUYALLUP R.	MERIDIAN BR.	01/30/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	01/30/91	H-3	<	3.10E+01	8.60E+01	3.50E+02

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
PUYALLUP R.	MERIDIAN BR.	02/27/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	02/27/91	H-3	<	-1.60E+01	8.50E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	03/27/91	Gross Beta	<	9.00E-01	7.00E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	03/27/91	H-3	<	5.30E+01	9.00E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	04/24/91	Gross Beta	<	5.00E-01	7.00E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	04/24/91	H-3	<	-1.58E+02	1.13E+02	3.50E+02
PUYALLUP R.	MERIDIAN BR.	05/29/91	Gross Beta	<	5.90E-01	6.60E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	05/29/91	H-3	<	-3.30E+01	8.50E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	06/26/91	Gross Beta	<	7.10E-01	6.70E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	06/26/91	H-3	<	-8.10E+01	8.50E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	07/31/91	Gross Beta		2.60E+00	8.00E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	07/31/91	H-3	<	-1.40E+01	8.60E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	08/28/91	Gross Beta		3.50E+00	9.00E-01	1.00E+00
PUYALLUP R.	MERIDIAN BR.	08/28/91	H-3	<	1.00E+02	9.00E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	09/26/91	Gross Beta		7.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	09/26/91	H-3	<	4.00E+01	8.70E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	10/30/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	10/30/91	H-3	<	-1.60E+01	8.70E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	11/20/91	Gross Beta		3.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	11/20/91	H-3	<	7.20E+01	8.70E+01	3.50E+02
PUYALLUP R.	MERIDIAN BR.	12/18/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
PUYALLUP R.	MERIDIAN BR.	12/18/91	H-3	<	1.01E+02	8.80E+01	3.50E+02
SKAGIT R.	CONCRETE	04/16/91	Gross Beta	<	7.60E-01	7.00E-01	1.00E+00
SKAGIT R.	CONCRETE	04/16/91	H-3	<	-1.43E+02	1.13E+02	3.50E+02
SKAGIT R.	MARBLEMOUNT	01/22/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
SKAGIT R.	MARBLEMOUNT	01/22/91	H-3	<	-3.30E+01	8.60E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	02/19/91	Gross Beta	<	0.00E+00	1.00E+00	1.00E+00
SKAGIT R.	MARBLEMOUNT	02/19/91	H-3	<	-1.80E+01	8.40E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	03/19/91	Gross Beta	<	6.00E-01	7.00E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	03/19/91	H-3	<	3.80E+01	8.50E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	05/21/91	Gross Beta	<	7.80E-01	6.70E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	05/21/91	H-3	<	-6.20E+01	8.50E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	06/18/91	Gross Beta	<	2.30E-01	6.30E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	06/18/91	H-3	<	-8.40E+01	8.40E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	07/23/91	Gross Beta	<	1.70E-01	6.20E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	07/23/91	H-3	<	-1.00E+00	8.70E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	08/20/91	Gross Beta	<	6.00E-01	7.00E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	08/20/91	H-3	<	2.00E+01	8.80E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	09/17/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
SKAGIT R.	MARBLEMOUNT	09/17/91	H-3	<	1.20E+01	8.60E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	10/22/91	Gross Beta	<	4.40E-01	6.80E-01	1.00E+00
SKAGIT R.	MARBLEMOUNT	10/22/91	H-3	<	-3.10E+01	8.50E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	11/12/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
SKAGIT R.	MARBLEMOUNT	11/12/91	H-3	<	3.20E+01	8.60E+01	3.50E+02
SKAGIT R.	MARBLEMOUNT	12/10/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
SKAGIT R.	MARBLEMOUNT	12/10/91	H-3	<	1.23E+02	8.90E+01	3.50E+02
WNI	L1	05/22/91	Condct.		7.00E+01	4.00E+00	0.00E+00
WNI	L1	05/22/91	Ra-226	<	2.60E-02	7.20E-02	7.00E-02
WNI	L1	05/22/91	TDS		4.00E+01	2.00E+00	0.00E+00
WNI	L1	05/22/91	Th-230	<	6.00E-02	8.00E-02	1.00E-01
WNI	L1	05/22/91	Total U		2.46E-01	9.80E-02	2.00E-01
WNP-2	INTAKE	01/09/91	Ba-140	<	-2.00E+00	1.10E+01	1.70E+01

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	INTAKE	01/09/91	Co-58	<	7.00E-01	1.00E+00	2.00E+00
WNP-2	INTAKE	01/09/91	Co-60	<	5.80E-01	9.80E-01	3.00E+00
WNP-2	INTAKE	01/09/91	Cs-134	<	7.10E-01	9.80E-01	3.00E+00
WNP-2	INTAKE	01/09/91	Cs-137	<	2.00E-01	1.10E+00	3.00E+00
WNP-2	INTAKE	01/09/91	Fe-59	<	-7.00E-01	2.50E+00	5.00E+00
WNP-2	INTAKE	01/09/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	01/09/91	H-3	<	1.12E+02	8.90E+01	3.50E+02
WNP-2	INTAKE	01/09/91	Mn-54	<	0.00E+00	1.00E+00	2.00E+00
WNP-2	INTAKE	01/09/91	Zn-65	<	5.00E-01	2.10E+00	5.00E+00
WNP-2	INTAKE	01/09/91	Zr-95	<	0.00E+00	1.10E+00	5.00E+00
WNP-2	INTAKE	02/12/91	Ba-140	<	2.00E+00	6.10E+00	1.70E+01
WNP-2	INTAKE	02/12/91	Co-58	<	2.80E-01	9.30E-01	2.00E+00
WNP-2	INTAKE	02/12/91	Co-60	<	1.40E+00	1.00E+00	3.00E+00
WNP-2	INTAKE	02/12/91	Cs-134	<	-1.00E+00	1.00E+00	3.00E+00
WNP-2	INTAKE	02/12/91	Cs-137	<	-1.60E-01	9.70E-01	3.00E+00
WNP-2	INTAKE	02/12/91	Fe-59	<	2.00E-01	2.00E+00	5.00E+00
WNP-2	INTAKE	02/12/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	02/12/91	H-3	<	9.20E+01	8.50E+01	3.50E+02
WNP-2	INTAKE	02/12/91	Mn-54	<	-8.30E-01	9.90E-01	2.00E+00
WNP-2	INTAKE	02/12/91	Zn-65	<	-8.00E-01	1.90E+00	5.00E+00
WNP-2	INTAKE	02/12/91	Zr-95	<	8.20E-01	8.80E-01	5.00E+00
WNP-2	INTAKE	03/13/91	Ba-140	<	1.00E+00	6.50E+00	1.70E+01
WNP-2	INTAKE	03/13/91	Co-58	<	7.50E-01	9.00E-01	2.00E+00
WNP-2	INTAKE	03/13/91	Co-60	<	1.80E+00	1.00E+00	3.00E+00
WNP-2	INTAKE	03/13/91	Cs-134	<	-1.30E+00	1.00E+00	3.00E+00
WNP-2	INTAKE	03/13/91	Cs-137	<	1.10E-01	9.60E-01	3.00E+00
WNP-2	INTAKE	03/13/91	Fe-59	<	5.00E-01	2.00E+00	5.00E+00
WNP-2	INTAKE	03/13/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	03/13/91	H-3	<	7.60E+01	8.50E+01	3.50E+02
WNP-2	INTAKE	03/13/91	Mn-54	<	-4.30E-01	9.70E-01	2.00E+00
WNP-2	INTAKE	03/13/91	Zn-65	<	3.00E-01	1.80E+00	5.00E+00
WNP-2	INTAKE	03/13/91	Zr-95	<	-4.40E-01	9.20E-01	5.00E+00
WNP-2	INTAKE	04/09/91	Ba-140	<	-2.60E+00	7.50E+00	1.70E+01
WNP-2	INTAKE	04/09/91	Co-58	<	1.00E-01	1.00E+00	2.00E+00
WNP-2	INTAKE	04/09/91	Co-60	<	-3.00E-01	1.10E+00	3.00E+00
WNP-2	INTAKE	04/09/91	Cs-134	<	-4.00E-01	1.00E+00	3.00E+00
WNP-2	INTAKE	04/09/91	Cs-137	<	-7.00E-01	1.10E+00	3.00E+00
WNP-2	INTAKE	04/09/91	Fe-59	<	-4.00E-01	2.20E+00	5.00E+00
WNP-2	INTAKE	04/09/91	Gross Beta		1.20E+00	7.00E-01	1.00E+00
WNP-2	INTAKE	04/09/91	H-3	<	1.46E+02	9.00E+01	3.50E+02
WNP-2	INTAKE	04/09/91	Mn-54	<	3.00E-01	1.00E+00	2.00E+00
WNP-2	INTAKE	04/09/91	Zn-65	<	-3.00E+00	2.30E+00	5.00E+00
WNP-2	INTAKE	04/09/91	Zr-95	<	-1.00E+00	1.10E+00	5.00E+00
WNP-2	INTAKE	05/08/91	Ba-140	<	1.00E+00	5.10E+00	1.70E+01
WNP-2	INTAKE	05/08/91	Co-58	<	3.10E-01	9.30E-01	2.00E+00
WNP-2	INTAKE	05/08/91	Co-60	<	9.00E-01	8.40E-01	3.00E+00
WNP-2	INTAKE	05/08/91	Cs-134	<	-2.80E-01	8.30E-01	3.00E+00
WNP-2	INTAKE	05/08/91	Cs-137	<	8.00E-02	8.80E-01	3.00E+00
WNP-2	INTAKE	05/08/91	Fe-59	<	-1.00E+00	1.80E+00	5.00E+00
WNP-2	INTAKE	05/08/91	Gross Beta	<	1.00E+00	7.00E-01	1.00E+00
WNP-2	INTAKE	05/08/91	H-3	<	2.80E+01	8.70E+01	3.50E+02
WNP-2	INTAKE	05/08/91	Mn-54	<	4.10E-01	9.40E-01	2.00E+00

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	INTAKE	05/08/91	Zn-65	<	-7.00E-01	1.80E+00	5.00E+00
WNP-2	INTAKE	05/08/91	Zr-95	<	4.30E-01	9.60E-01	5.00E+00
WNP-2	INTAKE	06/11/91	Ba-140	<	4.79E+00	8.74E+00	1.70E+01
WNP-2	INTAKE	06/11/91	Co-58	<	-1.98E-01	9.11E-01	2.00E+00
WNP-2	INTAKE	06/11/91	Co-60	<	1.75E+00	9.70E-01	3.00E+00
WNP-2	INTAKE	06/11/91	Cs-134	<	-7.39E-01	9.24E-01	3.00E+00
WNP-2	INTAKE	06/11/91	Cs-137	<	-1.26E-01	9.78E-01	3.00E+00
WNP-2	INTAKE	06/11/91	Fe-59	<	-6.90E-01	2.30E+00	5.00E+00
WNP-2	INTAKE	06/11/91	Gross Beta	<	5.10E-01	6.90E-01	1.00E+00
WNP-2	INTAKE	06/11/91	H-3	<	7.00E+01	8.90E+01	3.50E+02
WNP-2	INTAKE	06/11/91	Mn-54	<	-2.00E-02	9.89E-01	2.00E+00
WNP-2	INTAKE	06/11/91	Zn-65	<	1.61E+00	2.04E+00	5.00E+00
WNP-2	INTAKE	06/11/91	Zr-95	<	-3.20E-01	9.95E-01	5.00E+00
WNP-2	INTAKE	07/09/91	Ba-140	<	6.00E+00	2.59E+01	1.70E+01
WNP-2	INTAKE	07/09/91	Co-58	<	9.00E-02	1.59E+00	2.00E+00
WNP-2	INTAKE	07/09/91	Co-60	<	-2.30E-01	1.55E+00	3.00E+00
WNP-2	INTAKE	07/09/91	Cs-134	<	-4.10E-01	1.32E+00	3.00E+00
WNP-2	INTAKE	07/09/91	Cs-137	<	-7.30E-01	1.49E+00	3.00E+00
WNP-2	INTAKE	07/09/91	Fe-59	<	2.09E+00	3.61E+00	5.00E+00
WNP-2	INTAKE	07/09/91	Gross Beta		1.12E+00	7.40E-01	1.00E+00
WNP-2	INTAKE	07/09/91	H-3	<	7.20E+01	8.80E+01	3.50E+02
WNP-2	INTAKE	07/09/91	Mn-54	<	-7.20E-01	1.39E+00	2.00E+00
WNP-2	INTAKE	07/09/91	Zn-65	<	-7.50E-01	2.90E+00	5.00E+00
WNP-2	INTAKE	07/09/91	Zr-95	<	1.69E+00	1.68E+00	5.00E+00
WNP-2	INTAKE	08/13/91	Ba-140	<	3.00E-01	1.86E+01	1.70E+01
WNP-2	INTAKE	08/13/91	Co-58	<	7.90E-01	1.12E+00	2.00E+00
WNP-2	INTAKE	08/13/91	Co-60	<	1.54E+00	1.00E+00	3.00E+00
WNP-2	INTAKE	08/13/91	Cs-134	<	-7.60E-02	9.63E-01	3.00E+00
WNP-2	INTAKE	08/13/91	Cs-137	<	-1.30E-01	1.04E+00	3.00E+00
WNP-2	INTAKE	08/13/91	Fe-59	<	-1.31E+00	2.72E+00	5.00E+00
WNP-2	INTAKE	08/13/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	08/13/91	H-3	<	5.60E+01	8.70E+01	3.50E+02
WNP-2	INTAKE	08/13/91	I-131	<	-3.20E+00	1.21E+01	3.00E+00
WNP-2	INTAKE	08/13/91	K-40		4.19E+01	2.01E+01	4.00E+01
WNP-2	INTAKE	08/13/91	Mn-54	<	-1.09E+00	1.00E+00	2.00E+00
WNP-2	INTAKE	08/13/91	Zn-65	<	-7.00E-01	2.13E+00	5.00E+00
WNP-2	INTAKE	08/13/91	Zr-95	<	9.70E-01	1.26E+00	5.00E+00
WNP-2	INTAKE	09/04/91	Ba-140	<	2.53E+00	8.58E+00	1.70E+01
WNP-2	INTAKE	09/04/91	Co-58	<	5.35E-01	8.80E-01	2.00E+00
WNP-2	INTAKE	09/04/91	Co-60	<	1.51E+00	9.10E-01	3.00E+00
WNP-2	INTAKE	09/04/91	Cs-134	<	-6.47E-01	9.55E-01	3.00E+00
WNP-2	INTAKE	09/04/91	Cs-137	<	-2.80E-02	9.86E-01	3.00E+00
WNP-2	INTAKE	09/04/91	Fe-59	<	4.50E-01	2.13E+00	5.00E+00
WNP-2	INTAKE	09/04/91	Gross Beta	<	8.09E-01	6.90E-01	1.00E+00
WNP-2	INTAKE	09/04/91	H-3	<	4.00E+01	8.70E+01	3.50E+02
WNP-2	INTAKE	09/04/91	Mn-54	<	-1.45E-01	8.94E-01	2.00E+00
WNP-2	INTAKE	09/04/91	Zn-65	<	1.85E+00	1.95E+00	5.00E+00
WNP-2	INTAKE	09/04/91	Zr-95	<	-7.40E-01	1.02E+00	5.00E+00
WNP-2	INTAKE	10/09/91	Ba-140	<	-2.91E+00	8.85E+00	1.70E+01
WNP-2	INTAKE	10/09/91	Co-58	<	-6.00E-01	1.01E+00	2.00E+00
WNP-2	INTAKE	10/09/91	Co-60	<	8.75E-01	9.48E-01	3.00E+00
WNP-2	INTAKE	10/09/91	Cs-134	<	7.20E-02	9.81E-01	3.00E+00

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	INTAKE	10/09/91	Cs-137	<	-1.14E+00	1.05E+00	3.00E+00
WNP-2	INTAKE	10/09/91	Fe-59	<	1.32E+00	2.15E+00	5.00E+00
WNP-2	INTAKE	10/09/91	Gross Beta		2.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	10/09/91	H-3	<	1.69E+02	9.00E+01	3.50E+02
WNP-2	INTAKE	10/09/91	I-131	<	-1.30E-01	3.63E+00	3.00E+00
WNP-2	INTAKE	10/09/91	K-40	<	1.89E+01	1.92E+01	4.00E+01
WNP-2	INTAKE	10/09/91	Mn-54	<	-5.00E-01	1.01E+00	2.00E+00
WNP-2	INTAKE	10/09/91	Zn-65	<	8.40E-01	1.91E+00	5.00E+00
WNP-2	INTAKE	10/09/91	Zr-95	<	8.40E-01	1.01E+00	5.00E+00
WNP-2	INTAKE	11/08/91	Ba-140	<	8.00E-01	4.05E+01	1.70E+01
WNP-2	INTAKE	11/08/91	Co-58	<	-3.60E-01	2.09E+00	2.00E+00
WNP-2	INTAKE	11/08/91	Co-60	<	1.11E+00	1.48E+00	3.00E+00
WNP-2	INTAKE	11/08/91	Cs-134	<	-2.70E-01	1.21E+00	3.00E+00
WNP-2	INTAKE	11/08/91	Cs-137	<	-2.00E-01	1.28E+00	3.00E+00
WNP-2	INTAKE	11/08/91	Fe-59	<	2.93E+00	4.87E+00	5.00E+00
WNP-2	INTAKE	11/08/91	Gross Beta	<	6.70E-01	7.20E-01	1.00E+00
WNP-2	INTAKE	11/08/91	H-3	<	7.30E+01	8.90E+01	3.50E+02
WNP-2	INTAKE	11/08/91	I-131	<	-1.85E+01	4.16E+01	3.00E+00
WNP-2	INTAKE	11/08/91	Mn-54	<	7.30E-01	1.54E+00	2.00E+00
WNP-2	INTAKE	11/08/91	Zn-65	<	-5.50E-01	3.03E+00	5.00E+00
WNP-2	INTAKE	11/08/91	Zr-95	<	6.50E-01	2.04E+00	5.00E+00
WNP-2	INTAKE	12/03/91	Ba-140	<	-6.30E+00	1.89E+01	1.70E+01
WNP-2	INTAKE	12/03/91	Co-58	<	-1.21E+00	1.63E+00	2.00E+00
WNP-2	INTAKE	12/03/91	Co-60	<	1.36E+00	1.43E+00	3.00E+00
WNP-2	INTAKE	12/03/91	Cs-134	<	-1.65E+00	1.55E+00	3.00E+00
WNP-2	INTAKE	12/03/91	Cs-137	<	1.09E+00	1.40E+00	3.00E+00
WNP-2	INTAKE	12/03/91	Fe-59	<	-8.50E-01	4.02E+00	5.00E+00
WNP-2	INTAKE	12/03/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	INTAKE	12/03/91	H-3	<	6.50E+01	8.80E+01	3.50E+02
WNP-2	INTAKE	12/03/91	I-131	<	-1.09E+00	9.37E+00	3.00E+00
WNP-2	INTAKE	12/03/91	Mn-54	<	-3.60E-01	1.53E+00	2.00E+00
WNP-2	INTAKE	12/03/91	Zn-65	<	1.40E-01	3.22E+00	5.00E+00
WNP-2	INTAKE	12/03/91	Zr-95	<	1.65E+00	1.62E+00	5.00E+00
WNP-2	WTP (RICHLAND)	01/09/91	Co-60	<	1.00E-02	9.00E-01	3.00E+00
WNP-2	WTP (RICHLAND)	01/09/91	Cs-137	<	-1.10E-01	8.40E-01	3.00E+00
WNP-2	WTP (RICHLAND)	01/09/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	WTP (RICHLAND)	01/09/91	H-3	<	5.10E+01	8.80E+01	3.50E+02
WNP-2	WTP (RICHLAND)	01/09/91	K-40	<	2.20E+01	2.00E+01	4.00E+01
WNP-2	WTP (RICHLAND)	02/12/91	Co-60	<	1.60E+00	1.00E+00	3.00E+00
WNP-2	WTP (RICHLAND)	02/12/91	Cs-137	<	-1.00E-01	1.00E+00	3.00E+00
WNP-2	WTP (RICHLAND)	02/12/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	WTP (RICHLAND)	02/12/91	H-3	<	8.00E+01	8.50E+01	3.50E+02
WNP-2	WTP (RICHLAND)	03/13/91	Co-60	<	-7.00E-01	1.10E+00	3.00E+00
WNP-2	WTP (RICHLAND)	03/13/91	Cs-137	<	4.00E-01	1.00E+00	3.00E+00
WNP-2	WTP (RICHLAND)	03/13/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	WTP (RICHLAND)	03/13/91	H-3	<	9.20E+01	8.60E+01	3.50E+02
WNP-2	WTP (RICHLAND)	04/09/91	Co-60	<	-4.00E-01	1.10E+00	3.00E+00
WNP-2	WTP (RICHLAND)	04/09/91	Cs-137	<	1.00E-01	1.10E+00	3.00E+00
WNP-2	WTP (RICHLAND)	04/09/91	Gross Beta	<	7.99E-01	7.38E-01	1.00E+00
WNP-2	WTP (RICHLAND)	04/09/91	H-3	<	1.05E+02	9.00E+01	3.50E+02
WNP-2	WTP (RICHLAND)	05/08/91	Co-60	<	1.20E+00	9.00E-01	3.00E+00
WNP-2	WTP (RICHLAND)	05/08/91	Cs-137	<	5.00E-02	9.70E-01	3.00E+00

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	WTP (RICHLAND)	05/08/91	Gross Beta		1.13E+00	7.50E-01	1.00E+00
WNP-2	WTP (RICHLAND)	05/08/91	H-3	<	6.10E+01	8.70E+01	3.50E+02
WNP-2	WTP (RICHLAND)	06/11/91	Co-60	<	-8.80E-01	1.02E+00	3.00E+00
WNP-2	WTP (RICHLAND)	06/11/91	Cs-137	<	1.08E+00	1.10E+00	3.00E+00
WNP-2	WTP (RICHLAND)	06/11/91	Gross Beta	<	9.00E-01	7.00E-01	1.00E+00
WNP-2	WTP (RICHLAND)	06/11/91	H-3	<	-6.00E+00	8.50E+01	3.50E+02
WNP-2	WTP (RICHLAND)	07/09/91	Co-60	<	1.30E+00	1.00E+00	3.00E+00
WNP-2	WTP (RICHLAND)	07/09/91	Cs-137	<	8.44E-01	9.30E-01	3.00E+00
WNP-2	WTP (RICHLAND)	07/09/91	Gross Beta		1.27E+00	7.40E-01	1.00E+00
WNP-2	WTP (RICHLAND)	07/09/91	H-3	<	3.30E+01	8.80E+01	3.50E+02
WNP-2	WTP (RICHLAND)	07/09/91	K-40	<	3.43E+01	2.08E+01	4.00E+01
WNP-2	WTP (RICHLAND)	08/13/91	Co-60	<	-1.20E+01	9.81E-01	3.00E+00
WNP-2	WTP (RICHLAND)	08/13/91	Cs-137	<	-1.39E+00	1.03E+00	3.00E+00
WNP-2	WTP (RICHLAND)	08/13/91	Gross Beta	<	5.40E-01	6.80E-01	1.00E+00
WNP-2	WTP (RICHLAND)	08/13/91	H-3	<	1.22E+02	9.00E+01	3.50E+02
WNP-2	WTP (RICHLAND)	08/13/91	K-40	<	3.71E+01	1.95E+01	4.00E+01
WNP-2	WTP (RICHLAND)	09/04/91	Co-60	<	-4.40E-01	1.03E+00	3.00E+00
WNP-2	WTP (RICHLAND)	09/04/91	Cs-137	<	-2.80E-01	1.12E+00	3.00E+00
WNP-2	WTP (RICHLAND)	09/04/91	Gross Beta	<	9.90E-01	7.40E-01	1.00E+00
WNP-2	WTP (RICHLAND)	09/04/91	H-3	<	9.00E+01	8.80E+01	3.50E+02
WNP-2	WTP (RICHLAND)	10/09/91	Co-60	<	1.23E+00	9.90E-01	3.00E+00
WNP-2	WTP (RICHLAND)	10/09/91	Cs-137	<	5.00E-01	1.02E+00	3.00E+00
WNP-2	WTP (RICHLAND)	10/09/91	Gross Beta	<	5.70E-01	7.00E-01	1.00E+00
WNP-2	WTP (RICHLAND)	10/09/91	H-3	<	1.99E+02	9.10E+01	3.50E+02
WNP-2	WTP (RICHLAND)	10/09/91	K-40	<	2.05E+01	1.93E+01	4.00E+01
WNP-2	WTP (RICHLAND)	11/08/91	Co-60	<	8.50E-01	1.33E+00	3.00E+00
WNP-2	WTP (RICHLAND)	11/08/91	Cs-137	<	4.20E-01	1.45E+00	3.00E+00
WNP-2	WTP (RICHLAND)	11/08/91	Gross Beta	<	8.00E-01	7.20E-01	1.00E+00
WNP-2	WTP (RICHLAND)	11/08/91	H-3	<	1.20E+02	8.90E+01	3.50E+02
WNP-2	WTP (RICHLAND)	12/03/91	Co-60	<	1.92E+00	1.43E+00	3.00E+00
WNP-2	WTP (RICHLAND)	12/03/91	Cs-137	<	-7.80E-01	1.34E+00	3.00E+00
WNP-2	WTP (RICHLAND)	12/03/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
WNP-2	WTP (RICHLAND)	12/03/91	H-3	<	6.00E+01	8.70E+01	3.50E+02
YAKIMA R.	PARKER	02/04/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
YAKIMA R.	PARKER	02/04/91	H-3	<	3.30E+01	8.50E+01	3.50E+02
YAKIMA R.	PARKER	03/04/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
YAKIMA R.	PARKER	03/04/91	H-3	<	1.10E+01	8.50E+01	3.50E+02
YAKIMA R.	PARKER	04/01/91	Gross Beta	<	8.00E-01	7.00E-01	1.00E+00
YAKIMA R.	PARKER	04/01/91	H-3	<	1.15E+02	9.00E+01	3.50E+02
YAKIMA R.	PARKER	05/06/91	Gross Beta	<	6.70E-01	7.10E-01	1.00E+00
YAKIMA R.	PARKER	05/06/91	H-3	<	-7.90E+01	8.40E+01	3.50E+02
YAKIMA R.	PARKER	06/03/91	Be-7	<	-1.10E+02	8.40E+01	2.00E+01
YAKIMA R.	PARKER	06/03/91	Gross Beta		1.33E+00	7.20E-01	1.00E+00
YAKIMA R.	PARKER	07/08/91	Gross Beta		1.10E+00	7.00E-01	1.00E+00
YAKIMA R.	PARKER	07/08/91	H-3	<	9.00E+00	8.70E+01	3.50E+02
YAKIMA R.	PARKER	08/05/91	Gross Beta	<	8.10E-01	7.00E-02	1.00E+00
YAKIMA R.	PARKER	08/05/91	H-3	<	4.00E+00	8.60E+01	3.50E+02
YAKIMA R.	PARKER	09/02/91	Gross Beta		1.20E+00	7.00E-01	1.00E+00
YAKIMA R.	PARKER	09/02/91	H-3	<	-3.50E+01	8.50E+01	3.50E+02
YAKIMA R.	PARKER	10/16/91	Gross Beta		1.13E+00	7.60E-01	1.00E+00
YAKIMA R.	PARKER	10/16/91	H-3	<	-1.90E+01	8.50E+01	3.50E+02
YAKIMA R.	PARKER	11/06/91	Gross Beta		2.00E+00	1.00E+00	1.00E+00

TABLE A-11 CONTINUED

SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
YAKIMA R.	PARKER	11/06/91	H-3	<	8.00E+00	8.60E+01	3.50E+02
YAKIMA R.	PARKER	12/04/91	Gross Beta	<	1.00E+00	1.00E+00	1.00E+00
YAKIMA R.	PARKER	12/04/91	H-3	<	1.01E+02	8.90E+01	3.50E+02

TABLE A-12

QUARTERLY AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS	RESULT	ERROR	LLD
BANGOR	SUBASE	1st Qtr.	TLD	1.70E-01	3.00E-02	1.00E-02
BANGOR	SUBASE	2nd Qtr.	TLD	1.20E-01	6.00E-02	1.00E-02
BANGOR	SUBASE	3rd Qtr.	TLD	1.30E-01	3.00E-02	1.00E-02
BANGOR	SUBASE	4th Qtr.	TLD	1.50E-01	3.00E-02	1.00E-02
BREMERTON	FIRE DEPT.	1st Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
BREMERTON	FIRE DEPT.	2nd Qtr.	TLD	1.20E-01	6.00E-02	1.00E-02
BREMERTON	FIRE DEPT.	3rd Qtr.	TLD	1.20E-01	3.00E-02	1.00E-02
BREMERTON	FIRE DEPT.	4th Qtr.	TLD	1.40E-01	4.00E-02	1.00E-02
DMC	2-1	1st Qtr.	TLD	2.90E-01	4.00E-02	1.00E-02
DMC	2-1	2nd Qtr.	TLD	2.70E-01	3.00E-02	1.00E-02
DMC	2-1	3rd Qtr.	TLD	2.60E-01	3.00E-02	1.00E-02
DMC	2-1	4th Qtr.	TLD	2.50E-01	2.00E-02	1.00E-02
DMC	2-3	1st Qtr.	TLD	5.00E-01	5.00E-02	1.00E-02
DMC	2-3	2nd Qtr.	TLD	4.90E-01	4.00E-02	1.00E-02
DMC	2-3	3rd Qtr.	TLD	4.60E-01	3.00E-02	1.00E-02
DMC	2-3	4th Qtr.	TLD	4.70E-01	6.00E-02	1.00E-02
DMC	2-4	1st Qtr.	TLD	3.20E-01	5.00E-02	1.00E-02
DMC	2-4	2nd Qtr.	TLD	3.20E-01	5.00E-02	1.00E-02
DMC	2-4	3rd Qtr.	TLD	3.10E-01	3.00E-02	1.00E-02
DMC	2-4	4th Qtr.	TLD	3.00E-01	4.00E-02	1.00E-02
DMC	2-B	1st Qtr.	TLD	3.00E-01	4.00E-02	1.00E-02
DMC	2-B	2nd Qtr.	TLD	2.90E-01	5.00E-02	1.00E-02
DMC	2-B	3rd Qtr.	TLD	2.80E-01	3.00E-02	1.00E-02
DMC	2-B	4th Qtr.	TLD	2.90E-01	2.00E-02	1.00E-02
HANFORD	100N FIRESTA.	1st Qtr.	TLD	2.80E-01	4.00E-02	1.00E-02
HANFORD	100N FIRESTA.	2nd Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
HANFORD	100N FIRESTA.	3rd Qtr.	TLD	1.60E-01	5.00E-02	1.00E-02
HANFORD	100N FIRESTA.	4th Qtr.	TLD	2.40E-01	6.00E-02	1.00E-02
HANFORD	100N-1	1st Qtr.	TLD	1.04E+00	1.00E-01	1.00E-02
HANFORD	100N-1	2nd Qtr.	TLD	9.10E-01	1.20E-01	1.00E-02
HANFORD	100N-1	3rd Qtr.	TLD	7.70E-01	4.00E-02	1.00E-02
HANFORD	100N-1	4th Qtr.	TLD	8.90E-01	9.00E-02	1.00E-02
HANFORD	200ESE	1st Qtr.	TLD	2.70E-01	7.00E-02	1.00E-02
HANFORD	200ESE	2nd Qtr.	TLD	2.30E-01	6.00E-02	1.00E-02
HANFORD	200ESE	3rd Qtr.	TLD	1.70E-01	5.00E-02	1.00E-02
HANFORD	200ESE	4th Qtr.	TLD	2.50E-01	4.00E-02	1.00E-02
HANFORD	200GTE	1st Qtr.	TLD	2.40E-01	4.00E-02	1.00E-02
HANFORD	200GTE	2nd Qtr.	TLD	1.80E-01	6.00E-02	1.00E-02
HANFORD	200GTE	3rd Qtr.	TLD	1.40E-01	3.00E-02	1.00E-02
HANFORD	200GTE	4th Qtr.	TLD	2.20E-01	4.00E-02	1.00E-02
HANFORD	E200E	1st Qtr.	TLD	3.10E-01	5.00E-02	1.00E-02
HANFORD	E200E	2nd Qtr.	TLD	2.30E-01	7.00E-02	1.00E-02
HANFORD	E200E	3rd Qtr.	TLD	1.90E-01	4.00E-02	1.00E-02
HANFORD	E200E	4th Qtr.	TLD	3.20E-01	9.00E-02	1.00E-02
HANFORD	MOSES LAKE	1st Qtr.	TLD	2.20E-01	4.00E-02	1.00E-02
HANFORD	MOSES LAKE	2nd Qtr.	TLD	1.70E-01	6.00E-02	1.00E-02
HANFORD	MOSES LAKE	3rd Qtr.	TLD	1.30E-01	3.00E-02	1.00E-02
HANFORD	MOSES LAKE	4th Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
HANFORD	N200E	1st Qtr.	TLD	2.40E-01	4.00E-02	1.00E-02
HANFORD	N200E	2nd Qtr.	TLD	2.20E-01	6.00E-02	1.00E-02
HANFORD	N200E	3rd Qtr.	TLD	1.60E-01	3.00E-02	1.00E-02

TABLE A-12 CONTINUED

QUARTERLY AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS	RESULT	ERROR	LLD
HANFORD	N200E	4th Qtr.	TLD	2.50E-01	1.00E-01	1.00E-02
HANFORD	HANFORD TOWN	1st Qtr.	TLD	2.10E-01	4.00E-02	1.00E-02
HANFORD	HANFORD TOWN	2nd Qtr.	TLD	1.90E-01	6.00E-02	1.00E-02
HANFORD	HANFORD TOWN	3rd Qtr.	TLD	1.50E-01	3.00E-02	1.00E-02
HANFORD	HANFORD TOWN	4th Qtr.	TLD	2.50E-01	7.00E-02	1.00E-02
HANFORD	RT 11A-9	1st Qtr.	TLD	2.80E-01	5.00E-02	1.00E-02
HANFORD	RT 11A-9	2nd Qtr.	TLD	2.10E-01	5.00E-02	1.00E-02
HANFORD	RT 11A-9	3rd Qtr.	TLD	1.50E-01	3.00E-02	1.00E-02
HANFORD	RT 11A-9	4th Qtr.	TLD	2.50E-01	6.00E-02	1.00E-02
HANFORD	SUNNYSIDE	1st Qtr.	TLD	2.50E-01	3.00E-02	1.00E-02
HANFORD	SUNNYSIDE	2nd Qtr.	TLD	1.90E-01	6.00E-02	1.00E-02
HANFORD	SUNNYSIDE	3rd Qtr.	TLD	1.40E-01	3.00E-02	1.00E-02
HANFORD	SUNNYSIDE	4th Qtr.	TLD	2.40E-01	8.00E-02	1.00E-02
HANFORD	WYE B.	1st Qtr.	TLD	2.70E-01	6.00E-02	1.00E-02
HANFORD	WYE B.	2nd Qtr.	TLD	2.30E-01	8.00E-02	1.00E-02
HANFORD	WYE B.	3rd Qtr.	TLD	1.60E-01	4.00E-02	1.00E-02
HANFORD	WYE B.	4th Qtr.	TLD	2.60E-01	5.00E-02	1.00E-02
HANFORD	YAKIMA B.	1st Qtr.	TLD	2.90E-01	3.00E-02	1.00E-02
HANFORD	YAKIMA B.	2nd Qtr.	TLD	2.40E-01	8.00E-02	1.00E-02
HANFORD	YAKIMA B.	3rd Qtr.	TLD	1.90E-01	4.00E-02	1.00E-02
HANFORD	YAKIMA B.	4th Qtr.	TLD	2.80E-01	6.00E-02	1.00E-02
OLYMPIA	STATION 1	1st Qtr.	TLD	1.80E-01	4.00E-02	1.00E-02
OLYMPIA	STATION 1	2nd Qtr.	TLD	1.40E-01	4.00E-02	1.00E-02
OLYMPIA	STATION 1	3rd Qtr.	TLD	1.30E-01	3.00E-02	1.00E-02
OLYMPIA	STATION 1	4th Qtr.	TLD	1.60E-01	4.00E-02	1.00E-02
OLYMPIA	RESIDENCE	1st Qtr.	TLD	1.70E-01	5.00E-02	1.00E-02
OLYMPIA	RESIDENCE	2nd Qtr.	TLD	1.40E-01	6.00E-02	1.00E-02
OLYMPIA	RESIDENCE	3rd Qtr.	TLD	1.30E-01	4.00E-02	1.00E-02
OLYMPIA	RESIDENCE	4th Qtr.	TLD	1.40E-01	5.00E-02	1.00E-02
RICHLAND	ACI R NW	1st Qtr.	TLD	3.90E-01	6.00E-02	1.00E-02
RICHLAND	ACI R NW	2nd Qtr.	TLD	6.50E-01	5.00E-02	1.00E-02
RICHLAND	ACI R NW	3rd Qtr.	TLD	4.10E-01	6.00E-02	1.00E-02
RICHLAND	ACI R NW	4th Qtr.	TLD	7.00E-01	9.00E-02	1.00E-02
RICHLAND	ACI R SE	1st Qtr.	TLD	3.60E-01	4.00E-02	1.00E-02
RICHLAND	ACI R SE	2nd Qtr.	TLD	5.40E-01	8.00E-02	1.00E-02
RICHLAND	ACI R SE	3rd Qtr.	TLD	3.00E-01	5.00E-02	1.00E-02
RICHLAND	ACI R SE	4th Qtr.	TLD	5.20E-01	9.00E-02	1.00E-02
SEATTLE	BOEING FIELD	1st Qtr.	TLD	1.70E-01	5.00E-02	1.00E-02
SEATTLE	BOEING FIELD	2nd Qtr.	TLD	2.00E-01	4.00E-02	1.00E-02
SEATTLE	BOEING FIELD	3rd Qtr.	TLD	1.70E-01	5.00E-02	1.00E-02
SEATTLE	BOEING FIELD	4th Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
SPOKANE	RESIDENCE	1st Qtr.	TLD	2.60E-01	5.00E-02	1.00E-02
SPOKANE	RESIDENCE	2nd Qtr.	TLD	1.80E-01	4.00E-02	1.00E-02
SPOKANE	RESIDENCE	3rd Qtr.	TLD	2.70E-01	3.00E-02	1.00E-02
SPOKANE	RESIDENCE	4th Qtr.	TLD	2.60E-01	5.00E-02	1.00E-02
TROJAN	PGE-2	1st Qtr.	TLD	1.70E-01	3.00E-02	1.00E-02
TROJAN	PGE-2	2nd Qtr.	TLD	1.40E-01	7.00E-02	1.00E-02
TROJAN	PGE-2	3rd Qtr.	TLD	1.30E-01	2.00E-02	1.00E-02
TROJAN	PGE-2	4th Qtr.	TLD	1.30E-01	7.00E-02	1.00E-02
TROJAN	PGE-8	1st Qtr.	TLD	2.00E-01	7.00E-02	1.00E-02
TROJAN	PGE-8	2nd Qtr.	TLD	1.70E-01	6.00E-02	1.00E-02
TROJAN	PGE-8	3rd Qtr.	TLD	1.80E-01	2.00E-02	1.00E-02
TROJAN	PGE-8	4th Qtr.	TLD	1.70E-01	7.00E-02	1.00E-02
TROJAN	PGE-3	1st Qtr.	TLD	1.90E-01	1.00E-01	1.00E-02
TROJAN	PGE-3	2nd Qtr.	TLD	1.20E-01	7.00E-02	1.00E-02
TROJAN	PGE-3	3rd Qtr.	TLD	1.20E-01	2.00E-02	1.00E-02
TROJAN	PGE-3	4th Qtr.	TLD	1.20E-01	7.00E-02	1.00E-02
TROJAN	PGE-4	1st Qtr.	TLD	1.60E-01	3.00E-02	1.00E-02
TROJAN	PGE-4	2nd Qtr.	TLD	1.40E-01	7.00E-02	1.00E-02

TABLE A-12 CONTINUED

QUARTERLY AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS	RESULT	ERROR	LLD
TROJAN	PGE-4	3rd Qtr.	TLD	1.20E-01	2.00E-02	1.00E-02
TROJAN	PGE-4	4th Qtr.	TLD	1.30E-01	7.00E-02	1.00E-02
TROJAN	PGE-6	1st Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
TROJAN	PGE-6	2nd Qtr.	TLD	1.60E-01	6.00E-02	1.00E-02
TROJAN	PGE-6	3rd Qtr.	TLD	1.60E-01	3.00E-02	1.00E-02
TROJAN	PGE-6	4th Qtr.	TLD	1.60E-01	7.00E-02	1.00E-02
TROJAN	PGE-7	1st Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
TROJAN	PGE-7	2nd Qtr.	TLD	1.50E-01	7.00E-02	1.00E-02
TROJAN	PGE-7	3rd Qtr.	TLD	1.40E-01	4.00E-02	1.00E-02
TROJAN	PGE-7	4th Qtr.	TLD	1.30E-01	7.00E-02	1.00E-02
TROJAN*	PGE-5	3rd Qtr.	TLD	1.40E-01	2.00E-02	1.00E-02
TROJAN	PGE-5	4th Qtr.	TLD	1.30E-01	6.00E-02	1.00E-02
TROJAN	PGE-11A	1st Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
TROJAN	PGE-11A	2nd Qtr.	TLD	1.70E-01	6.00E-02	1.00E-02
TROJAN	PGE-11A	3rd Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
TROJAN	PGE-11A	4th Qtr.	TLD	2.00E-01	7.00E-02	1.00E-02
TROJAN	PGE-9	1st Qtr.	TLD	2.30E-01	6.00E-02	1.00E-02
TROJAN	PGE-9	2nd Qtr.	TLD	1.80E-01	7.00E-02	1.00E-02
TROJAN	PGE-9	3rd Qtr.	TLD	1.90E-01	3.00E-02	1.00E-02
TROJAN	PGE-9	4th Qtr.	TLD	1.90E-01	8.00E-02	1.00E-02
TROJAN	PGE-10	1st Qtr.	TLD	1.70E-01	4.00E-02	1.00E-02
TROJAN	PGE-10	2nd Qtr.	TLD	1.40E-01	6.00E-02	1.00E-02
TROJAN	PGE-10	3rd Qtr.	TLD	1.30E-01	2.00E-02	1.00E-02
TROJAN	PGE-10	4th Qtr.	TLD	1.30E-01	7.00E-02	1.00E-02
TROJAN	PGE-1	1st Qtr.	TLD	1.80E-01	5.00E-02	1.00E-02
TROJAN	PGE-1	2nd Qtr.	TLD	1.40E-01	6.00E-02	1.00E-02
TROJAN	PGE-1	3rd Qtr.	TLD	1.20E-01	2.00E-02	1.00E-02
TROJAN	PGE-1	4th Qtr.	TLD	1.30E-01	7.00E-02	1.00E-02
USE	NE CORNER	1st Qtr.	TLD	2.70E-01	5.00E-02	1.00E-02
USE	NE CORNER	2nd Qtr.	TLD	2.40E-01	4.00E-02	1.00E-02
USE	NE CORNER	3rd Qtr.	TLD	1.70E-01	3.00E-02	1.00E-02
USE	NE CORNER	4th Qtr.	TLD	2.70E-01	4.00E-02	1.00E-02
USE	NW CORNER	1st Qtr.	TLD	2.80E-01	5.00E-02	1.00E-02
USE	NW CORNER	2nd Qtr.	TLD	2.40E-01	5.00E-02	1.00E-02
USE	NW CORNER	3rd Qtr.	TLD	1.90E-01	4.00E-02	1.00E-02
USE	NW CORNER	4th Qtr.	TLD	2.60E-01	5.00E-02	1.00E-02
USE	SE CORNER	1st Qtr.	TLD	4.60E-01	7.00E-02	1.00E-02
USE	SE CORNER	2nd Qtr.	TLD	3.90E-01	8.00E-02	1.00E-02
USE	SE CORNER	3rd Qtr.	TLD	2.80E-01	5.00E-02	1.00E-02
USE	SE CORNER	4th Qtr.	TLD	3.70E-01	6.00E-02	1.00E-02
USE	SW CORNER	1st Qtr.	TLD	5.90E-01	6.00E-02	1.00E-02
USE	SW CORNER	2nd Qtr.	TLD	4.70E-01	9.00E-02	1.00E-02
USE	SW CORNER	3rd Qtr.	TLD	3.60E-01	4.00E-02	1.00E-02
USE	SW CORNER	4th Qtr.	TLD	4.60E-01	5.00E-02	1.00E-02
WNI	R	1st Qtr.	TLD	3.30E-01	4.00E-02	1.00E-02
WNI	R	2nd Qtr.	TLD	3.10E-01	7.00E-02	1.00E-02
WNI	R	3rd Qtr.	TLD	2.90E-01	4.00E-02	1.00E-02
WNI	R	4th Qtr.	TLD	3.20E-01	7.00E-02	1.00E-02
WNI	C	1st Qtr.	TLD	3.80E-01	3.00E-02	1.00E-02
WNI	C	2nd Qtr.	TLD	3.30E-01	5.00E-02	1.00E-02
WNI	C	3rd Qtr.	TLD	3.50E-01	2.00E-02	1.00E-02
WNI	C	4th Qtr.	TLD	3.60E-01	6.00E-02	1.00E-02
WNI	E	1st Qtr.	TLD	3.20E-01	4.00E-02	1.00E-02
WNI	E	2nd Qtr.	TLD	3.00E-01	6.00E-02	1.00E-02
WNI	E	3rd Qtr.	TLD	3.10E-01	4.00E-02	1.00E-02
WNI	E	4th Qtr.	TLD	3.40E-01	8.00E-02	1.00E-02
WNI	G	1st Qtr.	TLD	3.70E-01	3.00E-02	1.00E-02
WNI	G	2nd Qtr.	TLD	3.50E-01	5.00E-02	1.00E-02
WNI	G	3rd Qtr.	TLD	3.40E-01	6.00E-02	1.00E-02

TABLE A-12 CONTINUED

QUARTERLY AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS	RESULT	ERROR	LLD
WNI	G	4th Qtr.	TLD	3.80E-01	7.00E-02	1.00E-02
WNP-2	CONNELL	1st Qtr.	TLD	2.60E-01	3.00E-02	1.00E-02
WNP-2	CONNELL	2nd Qtr.	TLD	2.00E-01	4.00E-02	1.00E-02
WNP-2	CONNELL	3rd Qtr.	TLD	1.60E-01	3.00E-02	1.00E-02
WNP-2	CONNELL	4th Qtr.	TLD	2.30E-01	6.00E-02	1.00E-02
WNP-2	EAST PASCO	1st Qtr.	TLD	2.70E-01	3.00E-02	1.00E-02
WNP-2	EAST PASCO	2nd Qtr.	TLD	2.20E-01	4.00E-02	1.00E-02
WNP-2	EAST PASCO	3rd Qtr.	TLD	1.70E-01	3.00E-02	1.00E-02
WNP-2	EAST PASCO	4th Qtr.	TLD	2.40E-01	4.00E-02	1.00E-02
WNP-2	KENNEWICK	1st Qtr.	TLD	2.90E-01	4.00E-02	1.00E-02
WNP-2	KENNEWICK	2nd Qtr.	TLD	2.30E-01	5.00E-02	1.00E-02
WNP-2	KENNEWICK	3rd Qtr.	TLD	1.90E-01	4.00E-02	1.00E-02
WNP-2	KENNEWICK	4th Qtr.	TLD	2.60E-01	4.00E-02	1.00E-02
WNP-2	RICHLAND	1st Qtr.	TLD	2.30E-01	4.00E-02	1.00E-02
WNP-2	RICHLAND	2nd Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
WNP-2	RICHLAND	3rd Qtr.	TLD	1.50E-01	3.00E-02	1.00E-02
WNP-2	RICHLAND	4th Qtr.	TLD	2.30E-01	6.00E-02	1.00E-02
WNP-2	RINGOLD	1st Qtr.	TLD	2.60E-01	2.00E-02	1.00E-02
WNP-2	RINGOLD	2nd Qtr.	TLD	2.10E-01	6.00E-02	1.00E-02
WNP-2	RINGOLD	3rd Qtr.	TLD	1.80E-01	4.00E-02	1.00E-02
WNP-2	RINGOLD	4th Qtr.	TLD	2.50E-01	5.00E-02	1.00E-02
WNP-2	STATION 1	1st Qtr.	TLD	2.90E-01	6.00E-02	1.00E-02
WNP-2	STATION 1	2nd Qtr.	TLD	2.50E-01	4.00E-02	1.00E-02
WNP-2	STATION 1	3rd Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
WNP-2	STATION 1	4th Qtr.	TLD	2.60E-01	4.00E-02	1.00E-02
WNP-2	STATION 21	1st Qtr.	TLD	2.70E-01	6.00E-02	1.00E-02
WNP-2	STATION 21	2nd Qtr.	TLD	2.00E-01	4.00E-02	1.00E-02
WNP-2	STATION 21	3rd Qtr.	TLD	1.50E-01	3.00E-02	1.00E-02
WNP-2	STATION 21	4th Qtr.	TLD	2.40E-01	5.00E-02	1.00E-02
WNP-2	STATION 23	1st Qtr.	TLD	2.70E-01	5.00E-02	1.00E-02
WNP-2	STATION 23	2nd Qtr.	TLD	2.40E-01	5.00E-02	1.00E-02
WNP-2	STATION 23	3rd Qtr.	TLD	1.70E-01	3.00E-02	1.00E-02
WNP-2	STATION 23	4th Qtr.	TLD	2.40E-01	4.00E-02	1.00E-02
WNP-2	STATION 4	1st Qtr.	TLD	2.80E-01	3.00E-02	1.00E-02
WNP-2	STATION 4	2nd Qtr.	TLD	2.30E-01	5.00E-02	1.00E-02
WNP-2	STATION 4	3rd Qtr.	TLD	1.60E-01	3.00E-02	1.00E-02
WNP-2	STATION 4	4th Qtr.	TLD	2.10E-01	4.00E-02	1.00E-02
WNP-2	STATION 8	1st Qtr.	TLD	3.10E-01	3.00E-02	1.00E-02
WNP-2	STATION 8	2nd Qtr.	TLD	2.60E-01	3.00E-02	1.00E-02
WNP-2	STATION 8	3rd Qtr.	TLD	2.20E-01	2.00E-02	1.00E-02
WNP-2	STATION 8	4th Qtr.	TLD	2.90E-01	7.00E-02	1.00E-02
WNP-2	WEST PASCO	1st Qtr.	TLD	2.70E-01	5.00E-02	1.00E-02
WNP-2	WEST PASCO	2nd Qtr.	TLD	2.10E-01	3.00E-02	1.00E-02
WNP-2	WEST PASCO	3rd Qtr.	TLD	1.80E-01	3.00E-02	1.00E-02
WNP-2	WEST PASCO	4th Qtr.	TLD	2.40E-01	5.00E-02	1.00E-02
YAKIMA	YAK. AIRPORT	1st Qtr.	TLD	2.40E-01	8.00E-02	1.00E-02
YAKIMA	YAK. AIRPORT	2nd Qtr.	TLD	1.90E-01	6.00E-02	1.00E-02
YAKIMA	YAK. AIRPORT	3rd Qtr.	TLD	1.40E-01	4.00E-02	1.00E-02
YAKIMA	YAK. AIRPORT	4th Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
YAKIMA	ACI-1	1st Qtr.	TLD	9.70E-01	1.10E-01	1.00E-02
YAKIMA	ACI-1	2nd Qtr.	TLD	5.80E-01	1.00E-01	1.00E-02
YAKIMA	ACI-1	3rd Qtr.	TLD	4.80E-01	6.00E-02	1.00E-02
YAKIMA	ACI-1	4th Qtr.	TLD	5.40E-01	7.00E-02	1.00E-02
YAKIMA	ACI-2	1st Qtr.	TLD	3.10E-01	5.00E-02	1.00E-02
YAKIMA	ACI-2	2nd Qtr.	TLD	2.00E-01	5.00E-02	1.00E-02
YAKIMA	ACI-2	3rd Qtr.	TLD	2.00E-01	4.00E-02	1.00E-02
YAKIMA	ACI-2	4th Qtr.	TLD	2.60E-01	5.00E-02	1.00E-02

*TLD for 1st and 2nd Qtr. lost - no report

TABLE A-13

ANNUAL AMBIENT GAMMA RADIATION
(mrem/year ± 2 Sigma Counting Error)

Results of Thermoluminescent Dosimeters Analyzed by the
State of Washington Department of Health

1991, 1990, 1989, 1988

Station	YEAR 1991	YEAR 1990	YEAR 1989	YEAR 1988 (a)
PGE-1	52 ± 9	56 ± 6	55 ± 10	44 ± 10
PGE-2	52 ± 10	60 ± 6	61 ± 9	43 ± 7
PGE-3	51 ± 13	56 ± 7	57 ± 10	39 ± 8
PGE-4	51 ± 9	62 ± 8	58 ± 9	42 ± 8
PGE-5	25 ± 6(a)	60 ± 6	64 ± 11	38 ± 8
PGE-6	62 ± 10	70 ± 10	68 ± 9	47 ± 8
PGE-7	55 ± 10	57 ± 6	66 ± 11	41 ± 14
PGE-8	66 ± 11	71 ± 6	70 ± 8	60 ± 15
PGE-9	72 ± 11	74 ± 8	74 ± 10	56 ± 15
PGE-10	52 ± 9	57 ± 7	59 ± 10	42 ± 9
PGE-11A	68 ± 10	70 ± 8	72 ± 9	50 ± 7
WPPSS 2-1	10 ± 8	88 ± 6	87 ± 10	61 ± 9
WPPSS 2-21	79 ± 9	86 ± 6	82 ± 10	62 ± 12
WPPSS 2-23	85 ± 8	90 ± 8	79 ± 8	64 ± 12
WPPSS 2-4	80 ± 7	76 ± 15	74 ± 11	55 ± 10
WPPSS 2-8	99 ± 7	104 ± 8	96 ± 10	64 ± 9
Connell	78 ± 8	81 ± 7	80 ± 9	56 ± 9
Kennewick	89 ± 8	91 ± 7	89 ± 8	66 ± 12
Pasco (E)	81 ± 6	84 ± 9	81 ± 8	63 ± 12
Pasco (W)	82 ± 7	86 ± 7	82 ± 8	66 ± 20
Richland	74 ± 8	79 ± 6	77 ± 11	54 ± 10
Ringold	83 ± 8	81 ± 14	79 ± 7	55 ± 9
DMC 2-1	97 ± 6	119 ± 11	98 ± 6	73 ± 14
DMC 2-3	176 ± 8	195 ± 11	183 ± 9	126 ± 20
DMC 2-4	114 ± 8	129 ± 8	113 ± 8	89 ± 16
DMC 2-8	105 ± 7	125 ± 9	(b)(e)	89 ± 13

TABLE A-13 CONTINUED

ANNUAL AMBIENT GAMMA RADIATION
(mrem/year ± 2 Sigma Counting Error)

Station	YEAR 1991	YEAR 1990	YEAR 1989	YEAR 1988 (a)
WNI-C	129 ± 9	146 ± 9	135 ± 8	117 ± 24
WNI-E	115 ± 11	136 ± 8	116 ± 9	88 ± 11
WNI-G	131 ± 10	145 ± 8	126 ± 9	98 ± 23
WNI-R	115 ± 11	138 ± 12	116 ± 9	87 ± 16
USE-NE	86 ± 8	82 ± 10	82 ± 6	69 ± 15
USE-NW	88 ± 9	86 ± 9	85 ± 7	67 ± 14
USE-SW	172 ± 12	161 ± 12	109 ± 8	89 ± 12
USE-SE	137 ± 12	124 ± 11	130 ± 8	118 ± 15
ACI-1	237 ± 16	286 ± 12	246 ± 12	95 ± 10
ACI-2	90 ± 9	93 ± 10	100 ± 8	70 ± 5
ACI-Yakima	70 ± 11	60 ± 8	69 ± 8	52 ± 8
ACI R NW	195 ± 12	180 ± 10	398 ± 21	(b)
ACI R SE	156 ± 12	139 ± 10	608 ± 29	(b)
Bangor	53 ± 7	48 ± 10	58 ± 12	47 ± 18
Bremerton	51 ± 7	47 ± 10	50 ± 6	40 ± 8
Olympia	54 ± 9	46 ± 12	56 ± 7	37 ± 12
Seattle	65 ± 8	(b)	58 ± 11	42 ± 13
Spokane	87 ± 8	83 ± 9	89 ± 9	65 ± 20
ITI-1 (a)	(f)	(f)	54 ± 10	(b)
ITI-2 (a)	(f)	(f)	65 ± 8	64 ± 8
ITI-3 (a)	(f)	(f)	67 ± 8	101 ± 11
ITI-4 (a)	(d)	(d)	(d)	(b)
Moses Lake	67 ± 9	66 ± 9	67 ± 9	52 ± 8
200 ESE	85 ± 11	80 ± 9	80 ± 5	61 ± 10
E 200 E	95 ± 11	86 ± 10	85 ± 6	69 ± 9
N 200 E	79 ± 11	79 ± 10	80 ± 7	59 ± 9
Rt 11A Mile 9	81 ± 9	77 ± 8	77 ± 5	59 ± 10
200 GTE	72 ± 9	73 ± 10	71 ± 6	60 ± 18
S 200 E	(g)	88 ± 10	86 ± 5	69 ± 12
SW BC Crib	(g)	80 ± 9	80 ± 6	59 ± 10

TABLE A-13 CONTINUED

ANNUAL AMBIENT GAMMA RADIATION
(mrem/year ± 2 Sigma Counting Error)

Station	YEAR 1991	YEAR 1990	YEAR 1989	YEAR 1988 (a)
Army Loop Camp	(g)	77 ± 9	77 ± 7	57 ± 7
Yakima Barricade	91 ± 9	86 ± 10	83 ± 5	63 ± 10
Sunnyside	75 ± 9	70 ± 8	69 ± 6	53 ± 10
Wye Barricade	84 ± 11	77 ± 10	72 ± 5	52 ± 7

(a) Data not available for all quarters. Yearly summations based on two quarter's data.
(b) Data not available for all quarters. No annual summation performed.
(c) Station established June 1988.
(d) Station discontinued in 1988.
(e) Station moved to new location in 1989.
(f) Station discontinued in 1989.
(g) Station discontinued in 1991.

TABLE A-14

TRITIUM ANALYSES IN VADOSE ZONE
(pCi/l ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	US ECOLOGY	04/30/91	H-3	<	1.44E+02	1.18E+02	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3		4.02E+02	1.20E+02	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3	<	3.04E+02	1.22E+02	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3		1.05E+03	1.30E+02	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3		1.21E+05	1.00E+03	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3		4.98E+02	1.23E+02	3.50E+02
HANFORD	US ECOLOGY	04/30/91	H-3		2.29E+03	1.50E+02	3.50E+02
HANFORD	US ECOLOGY	06/04/91	H-3	<	2.05E+02	1.50E+02	3.50E+02
HANFORD	US ECOLOGY	06/04/91	H-3	<	1.11E+02	9.00E+01	3.50E+02
HANFORD	US ECOLOGY	06/04/91	H-3		1.35E+03	2.50E+02	3.50E+02
HANFORD	US ECOLOGY	06/04/91	H-3		5.58E+02	1.00E+02	3.50E+02
HANFORD	US ECOLOGY	06/04/91	H-3	<	1.30E+01	8.70E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3	<	9.10E+01	8.90E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3		5.29E+02	9.70E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3		3.58E+02	9.40E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3		2.07E+04	3.00E+02	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3	<	8.00E+00	8.60E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3		6.07E+02	9.90E+01	3.50E+02
HANFORD	US ECOLOGY	06/27/91	H-3		1.80E+03	1.20E+02	3.50E+02
HANFORD	US ECOLOGY	07/16/91	H-3		9.10E+02	1.94E+02	3.50E+02
HANFORD	US ECOLOGY	07/16/91	H-3		7.48E+02	3.68E+02	3.50E+02
HANFORD	US ECOLOGY	07/16/91	H-3		5.71E+02	9.90E-01	3.50E+02
HANFORD	US ECOLOGY	07/16/91	H-3	<	1.69E+02	9.10E-01	3.50E+02
HANFORD	US ECOLOGY	07/16/91	H-3		2.66E+04	4.00E+02	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3		8.24E+02	1.04E+02	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3		9.54E+02	1.05E+02	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3	<	-6.00E+01	8.50E+01	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3	<	1.20E+02	8.90E+01	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3		7.31E+02	1.01E+02	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3		2.17E+03	1.30E+02	3.50E+02
HANFORD	US ECOLOGY	08/02/91	H-3	<	1.37E+02	9.00E+01	3.50E+02
HANFORD	US ECOLOGY	08/28/91	H-3		1.42E+03	1.20E+02	3.50E+02
HANFORD	US ECOLOGY	08/28/91	H-3		4.65E+04	4.00E+02	3.50E+02
HANFORD	US ECOLOGY	08/28/91	H-3		9.49E+02	1.06E+02	3.50E+02
HANFORD	US ECOLOGY	08/28/91	H-3	<	1.92E+02	9.10E+01	3.50E+02
HANFORD	US ECOLOGY	10/23/91	H-3		2.33E+03	1.30E+02	3.50E+02
HANFORD	US ECOLOGY	10/23/91	H-3		1.48E+03	1.20E+02	3.50E+02

TABLE A-15

VEGETATION ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Samples Analyzed by the
State of Washington Department of Health

January 1991 through December 1991

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
HANFORD	MOSES LAKE	06/20/91	Be-7		1.70E+00	6.00E-01	9.00E-02
HANFORD	MOSES LAKE	06/20/91	Cs-137	<	4.00E-03	3.20E-02	4.00E-02
HANFORD	MOSES LAKE	06/20/91	K-40		1.61E+01	1.10E+00	3.00E-01
HANFORD	MOSES LAKE	06/20/91	Sr-90	<	3.40E-02	4.70E-02	1.00E-03
HANFORD	RIVERVIEW	05/15/91	Be-7		8.80E-01	8.40E-01	9.00E-02
HANFORD	RIVERVIEW	05/15/91	Cs-137	<	9.00E-03	3.20E-02	4.00E-02
HANFORD	RIVERVIEW	05/15/91	K-40		2.78E+01	1.50E+00	3.00E-01
HANFORD	RIVERVIEW	05/15/91	Sr-90	<	5.90E-02	7.90E-02	1.00E-03
HANFORD	SUNNYSIDE	06/05/91	Cs-137	<	8.20E-03	7.50E-03	4.00E-02
HANFORD	SUNNYSIDE	06/05/91	H-3	<	-6.60E+01	9.40E+01	3.50E+02
HANFORD	SUNNYSIDE	06/05/91	K-40		4.20E+00	2.80E-01	3.00E-01
HANFORD	SUNNYSIDE	06/05/91	Sr-90	<	3.00E-03	1.60E-02	1.00E-03
USE	TRENCH CAP 2	07/16/91	Be-7		1.71E+00	1.02E+00	9.00E-02
USE	TRENCH CAP 2	07/16/91	Co-60	<	1.90E-02	2.80E-02	4.00E-02
USE	TRENCH CAP 2	07/16/91	Cs-137	<	-2.00E-03	3.00E-02	4.00E-02
USE	TRENCH CAP 2	07/16/91	H-3		4.09E+02	1.12E+02	3.50E+02
USE	TRENCH CAP 2	07/16/91	K-40		3.60E+01	1.40E+00	3.00E-01
USE	TRENCH CAP 4	07/16/91	Co-60	<	1.85E-02	2.35E-02	4.00E-02
USE	TRENCH CAP 4	07/16/91	Cs-137	<	-8.20E-03	2.27E-02	4.00E-02
USE	TRENCH CAP 4	07/16/91	H-3		3.62E+03	6.50E+02	3.50E+02
USE	TRENCH CAP 4	07/16/91	K-40		2.46E+01	1.00E+00	3.00E-01
USE	TRENCH CAP 20	07/16/91	Co-60		1.21E-01	6.90E-02	4.00E-02
USE	TRENCH CAP 20	07/16/91	Cs-137	<	1.86E-02	6.28E-02	4.00E-02
USE	TRENCH CAP 20	07/16/91	H-3		2.56E+03	1.30E+02	3.50E+02
USE	TRENCH CAP 20	07/16/91	K-40		5.32E+01	1.30E+00	3.00E-01
USE	TRENCH CAP 6	07/16/91	Be-7		1.18E+00	9.60E-01	9.00E-02
USE	TRENCH CAP 6	07/16/91	Co-60	<	-2.48E-02	2.96E-02	4.00E-02
USE	TRENCH CAP 6	07/16/91	Cs-137	<	1.55E-02	2.41E-02	4.00E-02
USE	TRENCH CAP 6	07/16/91	H-3		1.97E+03	1.30E+02	3.50E+02
USE	TRENCH CAP 6	07/16/91	K-40		3.75E+01	1.30E+00	3.00E-01
USE	TRENCH CAP 5	07/16/91	Co-60		5.44E-02	2.79E-02	4.00E-02
USE	TRENCH CAP 5	07/16/91	Cs-137	<	4.10E-03	2.60E-02	4.00E-02
USE	TRENCH CAP 5	07/16/91	H-3		9.34E+02	1.08E+02	3.50E+02
USE	TRENCH CAP 5	07/16/91	K-40		4.48E+01	1.40E+00	3.00E-01
USE	TRENCH CAP 3	07/16/91	Co-60	<	2.06E-02	3.15E-02	4.00E-02
USE	TRENCH CAP 3	07/16/91	Cs-137	<	1.65E-02	2.60E-02	4.00E-02
USE	TRENCH CAP 3	07/16/91	H-3		7.10E+02	1.02E+02	3.50E+02
USE	TRENCH CAP 3	07/16/91	K-40		5.22E+01	1.50E+00	3.00E-01
USE	TRENCH CAP 11	07/16/91	Be-7	<	9.40E-01	1.19E+00	9.00E-02
USE	TRENCH CAP 11	07/16/91	Co-60	<	1.65E-02	3.08E-02	4.00E-02
USE	TRENCH CAP 11	07/16/91	Cs-137	<	1.24E-02	2.42E-02	4.00E-02
USE	TRENCH CAP 11	07/16/91	H-3		2.30E+05	1.00E+03	3.50E+02
USE	TRENCH CAP 11	07/16/91	K-40		4.04E+01	1.30E+00	3.00E-01
USE	TRENCH CAP 8	07/16/91	Be-7		1.22E+00	9.70E-01	9.00E-02
USE	TRENCH CAP 8	07/16/91	Co-60	<	3.36E-02	2.69E-02	4.00E-02
USE	TRENCH CAP 8	07/16/91	Cs-137	<	1.00E-03	2.60E-02	4.00E-02
USE	TRENCH CAP 8	07/16/91	H-3		6.51E+03	2.00E+02	3.50E+02
USE	TRENCH CAP 8	07/16/91	K-40		4.08E+01	1.40E+00	3.00E-01
WNI	S2	09/19/91	Ra-226(G)	<	1.00E-01	5.00E-02	2.60E-01

TABLE A-15 CONTINUED

VEGETATION ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

AREA	SITE	DATE	ANALYSIS		RESULT	ERROR	LLD
WNP-2	PASCO-FARM	08/27/91	Cs-134	<	-1.06E-02	1.17E-02	1.00E-02
WNP-2	PASCO-FARM	08/27/91	Cs-137	<	5.20E-03	1.16E-02	4.00E-02
WNP-2	PASCO-FARM	08/27/91	I-131	<	2.50E-03	1.71E-02	2.00E-02
WNP-2	PASCO-FARM	08/27/91	K-40		2.91E+00	3.70E-01	3.00E-01

APPENDIX B

SPLIT SAMPLING

DATA TABLES

TABLE B-1

ALLIED CONSULTING, INCORPORATED
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health, Allied Consulting and Battelle Pacific Northwest Laboratories for the U.S. Department of Energy

January 1991 through December 1991

SITE	DATE	DOH	ACI	PNL
ACI-1	1st Qtr.	9.70E-01 ± 1.10E-01	7.00E-01 ± 0.00E+00	
	2nd Qtr.	5.80E-01 ± 1.00E-01	4.70E-01 ± 0.00E+00	
	3rd Qtr.	4.80E-01 ± 6.00E-02	5.00E-01 ± 0.00E+00	
	4th Qtr.	5.40E-01 ± 7.00E-02	5.30E-01 ± 0.00E+00	
ACI-2	1st Qtr.	3.10E-01 ± 5.00E-02	2.20E-01 ± 0.00E+00	
	2nd Qtr.	2.00E-01 ± 5.00E-02	2.30E-01 ± 0.00E+00	
	3rd Qtr.	2.00E-01 ± 4.00E-02	2.30E-01 ± 0.00E+00	
	4th Qtr.	2.60E-01 ± 5.00E-02	2.10E-01 ± 0.00E+00	
ACI-YAKIMA	1st Qtr.	2.40E-01 ± 8.00E-02	1.70E-01 ± 0.00E+00	2.60E-01 ± 4.20E-02
	2nd Qtr.	1.90E-01 ± 6.00E-02	1.90E-01 ± 0.00E+00	2.25E-01 ± 2.30E-02
	3rd Qtr.	1.40E-01 ± 4.00E-02	1.60E-01 ± 0.00E+00	2.24E-01 ± 2.80E-02
	4th Qtr.	2.00E-01 ± 5.00E-02	1.60E-01 ± 0.00E+00	2.37E-01 ± 3.40E-02

TABLE B-2

ALLIED TECHNOLOGY GROUP, INC.
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health and Allied Technology Group

January 1991 through December 1991

SITE	DATE	DOH	ATG
ATG R NW	1st Qtr.	3.90E-01 ± 6.00E-02	3.50E-01 ± 0.00E+00
	2nd Qtr.	6.50E-01 ± 5.00E-02	5.30E-01 ± 0.00E+00
	3rd Qtr.	4.10E-01 ± 6.00E-02	5.10E-01 ± 0.00E+00
	4th Qtr.	7.00E-01 ± 9.00E-02	6.50E-01 ± 0.00E+00
ATG R SE	1st Qtr.	3.60E-01 ± 4.00E-02	3.30E-01 ± 0.00E+00
	2nd Qtr.	5.40E-01 ± 8.00E-02	4.70E-01 ± 0.00E+00
	3rd Qtr.	3.00E-01 ± 5.00E-02	3.90E-01 ± 0.00E+00
	4th Qtr.	5.20E-01 ± 9.00E-02	4.40E-01 ± 0.00E+00

TABLE B-3

DAWN MINING COMPANY
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health and Dawn Mining Company

January 1991 through December 1991

SITE	DATE	DOH	DMC
STA 2-3	1st Qtr.	5.00E-01 ± 5.00E-02	3.00E-01 ± 6.00E-02
	2nd Qtr.	4.90E-01 ± 4.00E-02	3.10E-01 ± 5.00E-02
	3rd Qtr.	4.60E-01 ± 3.00E-02	3.20E-01 ± 2.00E-02
	4th Qtr.	4.70E-01 ± 6.00E-02	3.90E-01 ± 6.00E-02
STA 2-4	1st Qtr.	3.20E-01 ± 5.00E-02	2.00E-01 ± 3.00E-02
	2nd Qtr.	3.20E-01 ± 5.00E-02	1.70E-01 ± 4.00E-02
	3rd Qtr.	3.10E-01 ± 3.00E-02	1.90E-01 ± 6.00E-02
	4th Qtr.	3.00E-01 ± 4.00E-02	2.70E-01 ± 2.00E-02
STA 2-1	1st Qtr.	2.90E-01 ± 4.00E-02	2.00E-01 ± 2.00E-02
	2nd Qtr.	2.70E-01 ± 3.00E-02	2.00E-01 ± 1.00E-02
	3rd Qtr.	2.60E-01 ± 3.00E-02	2.00E-01 ± 2.00E-02
	4th Qtr.	2.50E-01 ± 2.00E-02	2.60E-01 ± 8.00E-02

TABLE B-4

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

Results of Parallel Samples Analyzed by the
State of Washington Department of Health and
Battelle Pacific Northwest Laboratories for U.S. Department of Energy

January 1991 through December 1991

SITE	TEST	DATE	DOH	PNL
YAKIMA B.	Gross Beta	01/02/91	2.70E-02 ± 2.00E-03	
		01/07/91	3.90E-02 ± 3.00E-03	8.00E-02 ± 2.98E-03
		01/14/91	7.00E-02 ± 3.00E-03	
		01/22/91	1.20E-02 ± 1.00E-03	3.17E-02 ± 1.91E-03
		01/28/91	3.30E-02 ± 2.00E-03	
		02/04/91	2.40E-02 ± 2.00E-03	3.65E-02 ± 2.04E-03
		02/11/91	2.80E-02 ± 2.00E-03	
		02/19/91	1.50E-02 ± 1.00E-03	1.18E-02 ± 1.27E-03
		02/25/91	1.30E-02 ± 2.00E-03	
		03/04/91	1.70E-02 ± 2.00E-03	1.08E-02 ± 1.21E-03
		03/11/91	7.10E-03 ± 1.00E-03	
		03/18/91	1.00E-02 ± 1.00E-03	1.36E-02 ± 1.34E-03
		03/25/91	8.00E-03 ± 1.00E-03	
		04/02/91	1.70E-02 ± 1.00E-03	1.13E-02 ± 1.24E-03
		04/08/91	8.00E-03 ± 3.00E-03	
		04/15/91	1.00E-02 ± 1.00E-03	1.65E-02 ± 1.45E-03
		04/19/91	1.40E-02 ± 2.00E-03	
		04/29/91	1.40E-02 ± 1.00E-03	1.24E-02 ± 1.30E-03
		05/06/91	1.60E-02 ± 2.00E-03	
		05/13/91	8.00E-03 ± 1.00E-03	9.52E-03 ± 1.20E-03
		05/20/91	1.00E-02 ± 1.00E-03	
		05/24/91	1.40E-02 ± 2.00E-03	
		06/03/91	8.00E-03 ± 1.00E-03	7.57E-03 ± 1.11E-03
		06/10/91	8.00E-03 ± 1.00E-03	8.00E-03 ± 1.09E-03
		06/17/91	5.00E-03 ± 1.00E-03	

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		06/24/91	6.00E-03 ± 1.00E-03	9.80E-03 ± 1.24E-03
		06/28/91	1.20E-02 ± 2.00E-03	
		07/08/91	9.00E-03 ± 1.00E-03	8.94E-03 ± 1.10E-03
		07/15/91	1.20E-02 ± 1.00E-03	
		07/19/91	1.00E-02 ± 2.00E-03	
		07/26/91	1.50E-02 ± 2.00E-03	1.05E-02 ± 1.20E-03
		08/05/91	4.90E-02 ± 7.00E-03	1.77E-02 ± 2.37E-03
		08/12/91	1.00E-02 ± 2.00E-03	
		08/20/91	2.00E-02 ± 2.00E-03	1.39E-02 ± 1.36E-03
		08/26/91	1.30E-02 ± 2.00E-03	
		09/03/91	1.00E-02 ± 1.00E-03	1.11E-02 ± 1.26E-03
		09/09/91	1.50E-02 ± 2.00E-03	
		09/13/91	1.60E-02 ± 2.00E-03	
		09/23/91	1.10E-02 ± 1.00E-03	1.62E-02 ± 1.44E-03
		10/01/91	4.30E-02 ± 4.00E-03	2.62E-02 ± 1.75E-03
		10/07/91	2.20E-03 ± 2.00E-04	
		10/14/91	3.80E-02 ± 2.00E-03	7.23E-02 ± 5.95E-03
		10/21/91	3.60E-02 ± 5.00E-03	
		10/28/91	1.80E-02 ± 3.00E-03	3.65E-02 ± 2.22E-03
		11/04/91	5.30E-02 ± 2.00E-03	
		11/12/91	3.50E-02 ± 2.00E-03	1.47E-02 ± 1.36E-03
		11/18/91	1.10E-02 ± 2.00E-03	
		11/25/91	1.40E-02 ± 1.00E-03	9.27E-03 ± 1.15E-03
		12/02/91	9.00E-03 ± 1.00E-03	
		12/09/91	6.00E-03 ± 1.00E-03	1.81E-02 ± 1.51E-03
		12/16/91	1.30E-02 ± 1.00E-03	
		12/23/91	4.70E-02 ± 2.00E-03	
		12/30/91	8.00E-02 ± 3.00E-03	
200GTE	Gross Beta	03/11/91	6.80E-03 ± 1.00E-03	1.18E-02 ± 1.27E-03
		03/18/91	1.10E-02 ± 1.00E-03	1.45E-02 ± 1.36E-03

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		03/25/91	9.00E-03 ± 1.00E-03	
		04/02/91	1.60E-02 ± 1.00E-03	1.19E-02 ± 1.27E-03
		04/08/91	8.00E-03 ± 3.00E-03	
		04/15/91	1.00E-02 ± 1.00E-03	1.73E-02 ± 1.48E-03
		04/19/91	1.40E-02 ± 2.00E-03	
		04/29/91	1.30E-02 ± 1.00E-03	1.22E-02 ± 1.28E-03
		05/06/91	1.50E-02 ± 2.00E-03	
		05/13/91	9.00E-03 ± 1.00E-03	1.12E-02 ± 1.26E-03
		05/20/91	1.10E-02 ± 1.00E-03	
		05/24/91	1.50E-02 ± 2.00E-03	
		06/03/91	8.00E-03 ± 1.00E-03	8.30E-03 ± 1.13E-03
		06/10/91	9.00E-03 ± 2.00E-03	
		06/17/91	6.00E-03 ± 1.00E-03	
		06/24/91	6.00E-03 ± 1.00E-03	8.66E-03 ± 1.19E-03
		06/28/91	1.10E-02 ± 2.00E-03	
		07/08/91	9.00E-03 ± 1.00E-03	1.01E-02 ± 1.15E-03
		07/15/91	1.30E-02 ± 1.00E-03	
		07/19/91	1.10E-02 ± 2.00E-03	
		07/26/91	1.30E-02 ± 1.00E-03	1.09E-02 ± 1.25E-03
		08/05/91	1.30E-02 ± 1.00E-03	1.37E-02 ± 1.33E-03
		08/13/91	1.30E-02 ± 1.00E-03	
		08/20/91	1.80E-03 ± 2.00E-03	1.52E-02 ± 1.41E-03
		08/26/91	1.50E-02 ± 2.00E-03	
		09/03/91	7.00E-03 ± 1.00E-03	1.26E-02 ± 1.31E-03
		09/09/91	9.00E-03 ± 1.00E-03	
		09/13/91	1.80E-02 ± 2.00E-03	
		09/23/91	1.10E-02 ± 1.00E-03	1.54E-02 ± 1.40E-03
		10/01/91	1.80E-02 ± 2.00E-03	2.69E-02 ± 1.79E-03
		10/07/91	2.00E-02 ± 2.00E-03	
		10/14/91	3.70E-02 ± 2.00E-03	2.32E-02 ± 1.66E-03

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		10/21/91	2.00E-02 ± 2.00E-03	
		10/28/91	1.00E-02 ± 1.00E-02	3.31E-02 ± 1.94E-03
		11/04/91	4.30E-02 ± 2.00E-03	
		11/12/91	3.40E-02 ± 2.00E-03	1.36E-02 ± 1.33E-03
		11/18/91	9.00E-03 ± 1.00E-03	
		11/25/91	1.00E-02 ± 1.00E-03	1.09E-02 ± 1.23E-03
		12/02/91	1.10E-02 ± 1.00E-03	
		12/09/91	7.00E-03 ± 1.00E-03	1.76E-02 ± 1.49E-03
		12/16/91	1.70E-03 ± 2.00E-04	
		12/23/91	3.50E-02 ± 2.00E-03	
		12/30/91	5.70E-02 ± 3.00E-03	
WYE B.	Gross Beta	01/02/91	2.60E-02 ± 2.00E-03	4.14E-02 ± 2.25E-03
		01/07/91	3.50E-02 ± 3.00E-03	
		01/14/91	7.00E-02 ± 3.00E-03	5.29E-02 ± 2.41E-03
		01/22/91	1.10E-02 ± 1.00E-03	
		01/28/91	3.60E-02 ± 2.00E-03	4.07E-02 ± 2.15E-03
		02/04/91	2.20E-02 ± 2.00E-03	
		02/11/91	2.60E-02 ± 2.00E-03	2.61E-02 ± 1.76E-03
		02/19/91	1.50E-02 ± 1.00E-03	
		02/25/91	1.30E-02 ± 2.00E-03	1.97E-02 ± 1.54E-03
		03/04/91	1.60E-02 ± 2.00E-03	
		03/11/91	7.00E-03 ± 1.00E-03	1.39E-02 ± 1.34E-03
		03/18/91	1.00E-02 ± 1.00E-03	
		03/25/91	8.00E-03 ± 1.00E-03	2.50E-02 ± 1.73E-03
		04/02/91	1.60E-02 ± 1.00E-03	
		04/08/91	9.00E-03 ± 3.00E-03	8.35E-03 ± 1.13E-03
		04/15/91	1.10E-02 ± 1.00E-03	
		04/19/91	1.40E-02 ± 2.00E-03	
		04/29/91	1.40E-02 ± 1.00E-03	1.55E-02 ± 1.40E-03
		05/06/91	1.40E-02 ± 2.00E-03	1.39E-02 ± 1.35E-03

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		05/13/91	8.00E-03 ± 1.00E-03	
		05/20/91	1.00E+00 ± 1.00E-03	1.97E-02 ± 1.55E-03
		05/24/91	1.30E-02 ± 2.00E-03	
		06/03/91	8.00E-03 ± 1.00E-03	7.51E-03 ± 1.03E-03
		06/10/91	8.00E-03 ± 1.00E-03	
		06/17/91	5.00E-03 ± 1.00E-03	7.53E-03 ± 1.14E-03
		06/24/91	6.00E-03 ± 1.00E-03	
		06/28/91	1.10E-02 ± 2.00E-03	
		07/08/91	9.00E-03 ± 1.00E-03	1.10E-02 ± 1.23E-03
		07/15/91	1.30E-02 ± 1.00E-03	2.96E-02 ± 1.84E-03
		07/19/91	1.00E-02 ± 2.00E-03	
		07/26/91	1.30E-02 ± 1.00E-03	
		08/05/91	1.30E-02 ± 1.00E-03	1.55E-02 ± 1.41E-03
		08/13/91	1.30E-02 ± 1.00E-03	1.77E-02 ± 1.49E-03
		08/20/91	2.00E-02 ± 2.00E-03	
		08/26/91	1.30E-02 ± 2.00E-03	1.13E-02 ± 1.25E-03
		09/03/91	8.00E-03 ± 1.00E-03	
		09/09/91	1.30E-02 ± 2.00E-03	1.50E-02 ± 1.39E-03
		09/13/91	1.60E-02 ± 2.00E-03	
		09/23/91	1.10E-02 ± 1.00E-03	2.34E-02 ± 1.68E-03
		10/01/91	2.00E-02 ± 2.00E-03	
		10/07/91	1.90E-02 ± 2.00E-03	3.37E-02 ± 1.94E-03
		10/14/91	3.40E-02 ± 2.00E-03	
		10/21/91	1.00E-02 ± 1.00E-03	1.81E-02 ± 1.51E-03
		10/28/91	9.00E-03 ± 1.00E-03	
		11/04/91	3.90E-02 ± 2.00E-03	3.60E-02 ± 2.03E-03
		11/12/91	2.80E-02 ± 2.00E-03	
		11/18/91	8.00E-03 ± 1.00E-03	1.07E-02 ± 1.22E-03
		11/25/91	9.00E-03 ± 1.00E-03	
		12/02/91	9.00E-03 ± 1.00E-03	7.37E-03 ± 1.08E-03

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		12/09/91	5.00E-03 ± 1.00E-03	
		12/16/91	1.30E-03 ± 1.00E-04	3.19E-02 ± 1.85E-03
		12/23/91	4.30E-02 ± 2.00E-03	
		12/30/91	6.20E-02 ± 3.00E-03	
HANFORD TOWNSITE	Gross Beta	03/11/91	6.30E-03 ± 1.00E-03	1.22E-02 ± 1.28E-03
		03/18/91	1.60E-02 ± 7.00E-03	
		03/25/91	1.90E-02 ± 4.00E-03	2.19E-02 ± 1.61E-03
		04/02/91	1.80E-02 ± 1.00E-03	
		04/08/91	9.00E-03 ± 3.00E-03	4.60E-03 ± 1.38E-03
		04/15/91	1.00E-02 ± 1.00E-03	
		04/19/91	1.30E-02 ± 2.00E-03	
		04/29/91	1.40E-02 ± 1.00E-03	1.47E-02 ± 1.38E-03
		05/06/91	1.50E-02 ± 2.00E-03	1.19E-02 ± 1.26E-03
		05/13/91	1.80E-02 ± 4.00E-03	
		05/20/91	1.30E-02 ± 2.00E-03	2.71E-02 ± 1.80E-03
		05/24/91	1.50E-02 ± 2.00E-03	
		06/03/91	8.00E-03 ± 1.00E-03	6.26E-03 ± 9.74E-04
		06/10/91	7.00E-03 ± 1.00E-03	
		06/17/91	5.00E-03 ± 2.00E-03	7.20E-03 ± 1.12E-03
		06/24/91	7.00E-03 ± 1.00E-03	
		06/28/91	1.10E-02 ± 3.00E-03	
		07/08/91	3.30E-02 ± 1.30E-02	1.06E-02 ± 1.25E-03
		07/15/91	1.50E-02 ± 4.00E-03	2.88E-02 ± 1.82E-03
		07/19/91	1.10E-02 ± 2.00E-03	
		07/26/91	2.30E-02 ± 6.00E-03	
		08/05/91	1.10E-02 ± 2.00E-03	1.63E-02 ± 1.43E-03
		08/20/91	2.00E-02 ± 2.00E-03	1.56E-02 ± 1.42E-03
		08/26/91	1.30E-02 ± 2.00E-03	1.04E-02 ± 1.20E-03
		09/03/91	8.00E-03 ± 1.00E-03	
		09/09/91	9.00E-03 ± 1.00E-03	1.60E-02 ± 1.44E-03

TABLE B-4 CONTINUED

USDOE (PNL)
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
		09/13/91	1.20E-02 ± 2.00E-03	
		09/24/91	1.10E-02 ± 1.00E-03	2.61E-02 ± 1.76E-03
		10/01/91	1.90E-02 ± 2.00E-03	
		10/07/91	1.90E-02 ± 2.00E-03	2.86E-02 ± 1.84E-03
		10/14/91	3.90E-02 ± 5.00E-03	
		10/21/91	1.30E-02 ± 2.00E-03	1.52E-02 ± 1.38E-03
		10/28/91	7.00E-03 ± 1.00E-03	
		11/04/91	3.50E-02 ± 2.00E-03	4.12E-02 ± 2.18E-03
		11/12/91	2.60E-02 ± 2.00E-03	
		11/18/91	8.00E-03 ± 1.00E-03	1.29E-02 ± 1.30E-03
		11/25/91	9.00E-03 ± 1.00E-03	
		12/02/91	1.00E-02 ± 1.00E-03	6.38E-03 ± 1.03E-03
		12/09/91	5.00E-03 ± 1.00E-03	
		12/16/91	1.30E-02 ± 1.00E-03	3.52E-02 ± 1.94E-03
		12/23/91	4.20E-02 ± 2.00E-03	
		12/30/91	5.70E-02 ± 3.00E-03	

DOH samples are collected weekly vs. PNL bi-weekly sampling.

TABLE B-5

USDOE (PNL)
FOOD ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Battelle Pacific Northwest Laboratories for the U.S. Department of Energy

January 1991 through December 1991

			DOH		PNL	
SITE	DATE	ANALYSIS	RESULT	ERROR	RESULT	ERROR
			APPLES			
RINGOLD	09/23/91	Cs-137	-9.00E-03	1.00E-02	-1.15E-02	8.91E-03
RINGOLD	09/23/91	H-3	4.70E+01	9.10E+01	7.31E+01	9.93E+01
RINGOLD	09/23/91	Sr-90	-1.00E-03	2.00E-03	-8.34E-04	1.60E-03
RINGOLD	09/23/91	Cs-137			8.19E-03	5.31E-03
RINGOLD	09/23/91	H-3			1.67E+02	1.03E+02
RINGOLD	09/23/91	Sr-90			-1.66E-03	1.27E-03
RINGOLD	09/23/91	Cs-137			-4.87E-03	6.98E-03
RINGOLD	09/23/91	H-3			1.23E+02	1.01E+02
RINGOLD	09/23/91	Sr-90			-9.27E-04	1.25E-03
SUNNYSIDE	10/18/91	Cs-137	-1.40E-03	7.20E-03	1.00E-02	7.86E-03
SUNNYSIDE	10/18/91	H-3	8.40E+01	9.50E+01	5.38E+01	9.94E+01
SUNNYSIDE	10/18/91	Sr-90	2.00E-03	6.00E-03	-6.82E-04	1.81E-03
SUNNYSIDE	10/18/91	Cs-137			7.21E-03	7.81E-03
SUNNYSIDE	10/18/91	H-3			9.33E+01	1.01E+02
SUNNYSIDE	10/18/91	Sr-90			-1.67E-03	1.67E-03
SUNNYSIDE	10/18/91	Cs-137			1.73E-03	1.03E-02
SUNNYSIDE	10/18/91	H-3			1.26E+02	1.02E+02
SUNNYSIDE	10/18/91	Sr-90			1.85E-03	2.35E-03
			BEET TOPS			
SUNNYSIDE	06/05/91	Cs-137	8.20E-03	7.50E-03	-2.76E-03	7.97E-03
SUNNYSIDE	06/05/91	K-40	4.20E+00	2.80E-01	5.07E+00	3.27E-01
SUNNYSIDE	06/05/91	Sr-90	3.00E-03	1.60E-02	5.87E-03	5.65E-03

TABLE B-5 CONTINUED

USDOE (PNL)
FOOD ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

			DOH		PNL	
SITE	DATE	ANALYSIS	RESULT	ERROR	RESULT	ERROR
SUNNYSIDE	06/05/91	Cs-137			3.79E-04	7.84E-03
SUNNYSIDE	06/05/91	K-40			5.65E+00	3.06E-01
SUNNYSIDE	06/05/91	Sr-90			3.36E-03	3.17E-03
SUNNYSIDE	06/05/91	Cs-137			2.75E-03	8.80E-03
SUNNYSIDE	06/05/91	K-40			4.11E+00	3.20E-01
SUNNYSIDE	06/05/91	Sr-90			2.57E-02	5.03E-03
			CHERRIES			
RINGOLD	06/24/91	Cs-137	-3.20E-03	5.30E-03	3.95E-03	6.78E-03
RINGOLD	06/24/91	K-40	2.56E+00	2.30E-01	2.71E+00	2.62E-01
RINGOLD	06/24/91	Sr-90	2.00E-03	9.00E-03	-3.71E-04	1.76E-03
RINGOLD	06/24/91	Cs-137			2.04E-03	6.41E-03
RINGOLD	06/24/91	K-40			2.51E+00	2.33E-01
RINGOLD	06/24/91	Sr-90			2.50E-04	1.87E-03
RINGOLD	06/24/91	Cs-137			7.68E-03	8.17E-03
RINGOLD	06/24/91	K-40			2.30E+00	2.63E-01
RINGOLD	06/24/91	Sr-90			-3.91E-04	1.79E-03
			GRAPES			
SAGEMOOR	10/03/91	H-3	1.14E+02	9.10E+01	9.80E-04	5.23E-03
SAGEMOOR	10/03/91	Cs-137	5.00E-04	7.90E-03	1.65E+02	1.01E+02
SAGEMOOR	10/03/91	Sr-90	2.00E-03	2.20E-02	1.48E-02	5.30E-03
SAGEMOOR	10/03/91	Cs-137			-1.53E-03	7.19E-03
SAGEMOOR	10/03/91	H-3			8.66E+01	9.75E+01
SAGEMOOR	10/03/91	Sr-90			-1.22E-03	2.09E-03
SAGEMOOR	10/03/91	Cs-137			2.07E-03	5.06E-03
SAGEMOOR	10/03/91	H-3			6.64E+01	9.70E+01
SAGEMOOR	10/03/91	Sr-90			1.45E-03	2.40E-03
SUNNYSIDE	10/18/91	H-3	-6.70E+01	8.50E+01	-2.96E-03	6.61E-03
SUNNYSIDE	10/18/91	Cs-137	-3.70E-03	7.90E-03	1.27E+02	1.02E+02

TABLE B-5 CONTINUED

USDOE (PNL)
FOOD ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

			DOH		PNL	
SITE	DATE	ANALYSIS	RESULT	ERROR	RESULT	ERROR
SUNNYSIDE	10/18/91	Sr-90	-1.00E-03	2.10E-02	-1.19E-03	1.61E-03
SUNNYSIDE	10/18/91	Cs-137			5.63E-03	5.85E-03
SUNNYSIDE	10/18/91	H-3			1.42E+02	1.03E+02
SUNNYSIDE	10/18/91	Sr-90			-1.68E-03	1.60E-03
SUNNYSIDE	10/18/91	Cs-137			2.51E-03	4.65E-03
SUNNYSIDE	10/18/91	H-3			9.33E+01	1.01E+02
SUNNYSIDE	10/18/91	Sr-90			-5.45E-04	1.76E-03
			LEAFY VEGETABLES			
MOSES LAKE	07/25/91	Cs-137	-5.40E-03	1.06E-02	5.14E-03	1.11E-02
MOSES LAKE	07/25/91	K-40	1.92E+00	3.40E-01	2.91E+00	3.71E-01
MOSES LAKE	07/25/91	Sr-90	1.80E-02	1.10E-02	1.26E-02	3.64E-03
MOSES LAKE	07/25/91	Cs-137			-5.22E-03	1.74E-02
MOSES LAKE	07/25/91	K-40			3.00E+00	4.95E-01
MOSES LAKE	07/25/91	Sr-90			1.40E-02	3.83E-03
MOSES LAKE	07/25/91	Cs-137			1.45E-03	1.27E-02
MOSES LAKE	07/25/91	K-40			3.34E+00	4.51E-01
MOSES LAKE	07/25/91	Sr-90			7.34E-03	3.07E-03
			MELONS			
RIVERVIEW	08/07/91	Cs-137	-3.70E-04	6.63E-03	-5.22E-03	8.16E-03
RIVERVIEW	08/07/91	H-3	4.30E+01	8.80E+01	-1.15E+02	9.20E+01
RIVERVIEW	08/07/91	K-40	4.44E+00	2.20E-01	5.08E+00	3.66E-01
RIVERVIEW	08/07/91	Sr-90	7.00E-03	9.00E-03	-1.31E-03	2.62E-03
RIVERVIEW	08/07/91	Cs-137			8.16E-04	7.48E-03
RIVERVIEW	08/07/91	H-3			1.09E+02	9.94E+01
RIVERVIEW	08/07/91	K-40			6.83E+00	3.77E-01
RIVERVIEW	08/07/91	Sr-90			1.61E-05	2.62E-03
RIVERVIEW	08/07/91	Cs-137			2.31E-03	7.15E-03
RIVERVIEW	08/07/91	H-3			4.63E+01	9.71E+01

TABLE B-5 CONTINUED

USDOE (PNL)
FOOD ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

			DOH		PNL	
SITE	DATE	ANALYSIS	RESULT	ERROR	RESULT	ERROR
RIVERVIEW	08/07/91	K-40			4.69E+00	3.17E-01
RIVERVIEW	08/07/91	Sr-90			-1.11E-03	1.65E-03
			POTATOES			
HORN RAPIDS	08/07/91	Cs-137	-1.10E-03	6.50E-03	3.79E-03	8.98E-03
HORN RAPIDS	08/07/91	K-40	4.17E+00	2.30E-01	4.80E+00	3.85E-01
HORN RAPIDS	08/07/91	Sr-90	1.40E-02	1.00E-02	1.87E-03	3.73E-03
HORN RAPIDS	08/07/91	Cs-137			5.00E-03	7.50E-03
HORN RAPIDS	08/07/91	K-40			4.80E+00	3.65E-01
HORN RAPIDS	08/07/91	Sr-90			6.03E-03	4.20E-03
HORN RAPIDS	08/07/91	Cs-137			-7.37E-04	1.29E-02
HORN RAPIDS	08/07/91	K-40			5.06E+00	4.49E-01
HORN RAPIDS	08/07/91	Sr-90			4.92E-03	4.83E-03
SUNNYSIDE	08/07/91	Cs-137	-5.00E-03	1.10E-02	3.83E-03	1.25E-02
SUNNYSIDE	08/07/91	K-40	4.38E+00	3.80E-01	5.56E+00	4.72E-01
SUNNYSIDE	08/07/91	Sr-90	0.00E+00	9.00E-03	-7.08E-04	2.97E-03
SUNNYSIDE	08/06/91	Cs-137			7.80E-03	7.72E-03
SUNNYSIDE	08/06/91	K-40			5.02E+00	3.72E-01
SUNNYSIDE	08/06/91	Sr-90			3.88E-05	2.86E-03
SUNNYSIDE	08/06/91	Cs-137			7.68E-03	8.44E-03
SUNNYSIDE	08/06/91	K-40			5.80E+00	4.23E-01
SUNNYSIDE	08/06/91	Sr-90			-1.08E-03	3.75E-03

* PNL performed triplicate analyses for each location for every single DOH analysis. The DOH result should, therefore, be compared with all three PNL results

TABLE B-6

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Battelle Pacific Northwest Laboratories for U.S. Department of Energy

January 1991 through December 1991

SITE	TEST	DATE	DOH	PNL
6-32-43	Gross Alpha	01/16/91	4.00E+00 ± 4.00E+00	4.39E+00 ± 2.14E+00
		03/29/91	6.00E+00 ± 2.00E+00	4.57E+00 ± 2.16E+00
		06/18/91	7.34E+00 ± 6.08E+00	4.18E+00 ± 2.03E+00
		09/10/91	5.00E+00 ± 1.00E+00	3.20E+00 ± 1.80E+00
		12/04/91	6.00E+00 ± 3.00E+00	2.54E+00 ± 1.58E+00
	Gross Beta	01/16/91	1.80E+01 ± 2.00E+00	1.09E+01 ± 3.15E+00
		03/29/91	1.80E+01 ± 2.00E+00	1.23E+01 ± 3.21E+00
		06/18/91	1.60E+01 ± 2.00E+00	-2.65E+00 ± 1.79E+00
		09/10/91	1.50E+01 ± 2.00E+00	1.09E+01 ± 3.14E+00
		12/04/91	1.90E+01 ± 2.00E+00	1.19E+01 ± 3.26E+00
	Ru-106	01/16/91	-6.40E+00 ± 1.40E+00	-1.79E+01 ± 4.34E+01
		03/29/91	5.00E-01 ± 1.40E+01	-1.79E+01 ± 3.23E+01
	Cs-134	03/29/91	-4.00E-01 ± 1.40E+00	-1.46E+00 ± 3.39E+00
	Cs-137	01/16/91	7.00E-01 ± 1.40E+00	-6.00E+00 ± 3.82E+00
		03/29/91	4.00E-01 ± 1.40E+00	1.26E+00 ± 3.51E+00
		06/18/91	1.20E+00 ± 1.30E+00	0.00E+00 ± 3.65E+00
		09/10/91	-6.00E-01 ± 1.10E+00	2.29E+00 ± 3.38E+00
		12/04/91	1.20E-01 ± 8.60E-01	3.83E+00 ± 6.33E+00
	Zr-95	03/29/91	-1.00E+00 ± 2.00E+00	1.89E+00 ± 8.40E+00
	Zn-65	03/29/91	-4.00E+00 ± 3.00E+00	9.27E+00 ± 8.24E+00
	K-40	09/10/91	4.76E+01 ± 2.26E+01	5.13E+01 ± 4.30E+01
	Co-60	01/16/91	2.80E+00 ± 1.60E+00	1.44E+00 ± 3.73E+00
		03/29/91	4.00E-01 ± 1.70E+00	2.35E+00 ± 4.21E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/18/91	1.00E-01 ± 1.60E+00	4.71E+00 ± 3.02E+00
		09/10/91	2.50E+00 ± 1.60E+00	4.71E+00 ± 3.01E+00
		12/04/91	1.83E+00 ± 9.90E-01	7.06E+00 ± 5.04E+00
	H-3	01/16/91	2.60E+05 ± 1.00E+03	3.11E+05 ± 2.28E+04
		03/29/91	3.12E+05 ± 1.00E+03	3.30E+05 ± 2.42E+04
		06/18/91	2.79E+05 ± 1.00E+03	3.08E+05 ± 2.26E+04
		09/10/91	2.95E+05 ± 1.00E+03	3.11E+05 ± 2.28E+04
		12/04/91	2.82E+05 ± 1.00E+03	3.03E+05 ± 2.23E+04
	NO2+NO3	01/16/91	4.01E+01 ± 2.00E+00	3.09E+01 ± 0.00E+00
		03/29/91	4.70E+01 ± 2.00E+00	2.96E+01 ± 0.00E+00
		06/18/91	4.90E+01 ± 4.00E+00	3.02E+01 ± 0.00E+00
		09/10/91	4.40E+01 ± 2.00E+00	2.84E+01 ± 0.00E+00
6-17-5	Gross Alpha	01/16/91	5.00E+00 ± 2.00E+00	3.19E+00 ± 1.82E+00
		03/28/91	4.00E+00 ± 2.00E+00	3.04E+00 ± 1.88E+00
		06/20/91	5.00E+00 ± 2.00E+00	2.38E+00 ± 1.68E+00
		09/10/91	5.00E+00 ± 2.00E+00	3.04E+00 ± 1.88E+00
		12/04/91	4.00E+00 ± 3.00E+00	2.01E+00 ± 1.26E+00
	Gross Beta	01/16/91	9.00E+00 ± 1.00E+00	1.07E+01 ± 3.14E+00
		03/28/91	9.00E+00 ± 1.00E+00	6.78E+00 ± 2.69E+00
		06/20/91	9.00E+00 ± 1.00E+00	6.99E+00 ± 2.77E+00
		09/10/91	9.00E+00 ± 1.00E+00	6.74E+00 ± 2.79E+00
		12/04/91	1.00E+01 ± 1.00E+00	9.70E+00 ± 3.02E+00
	Ru-106	01/16/91	6.20E+00 ± 9.10E+00	1.65E+01 ± 6.17E+01
		03/28/91	4.60E+00 ± 8.90E+00	1.06E+01 ± 2.94E+01
	Cs-134	03/28/91	-1.30E-01 ± 9.10E-01	-2.71E+00 ± 3.34E+00
	Cs-137	01/16/91	1.00E-01 ± 1.00E+00	-1.90E-01 ± 3.71E+00
		03/28/91	0.00E+00 ± 1.00E+00	4.40E-01 ± 3.23E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/20/91	-4.00E-01 ± 1.40E+00	8.80E-01 ± 3.98E+00
		09/10/91	-3.00E-01 ± 1.00E+00	1.39E+00 ± 3.63E+00
		12/04/91	-4.12E-01 ± 9.12E-01	4.06E+00 ± 6.41E+00
	Zr-95	03/28/91	-1.00E-01 ± 1.60E+00	1.13E+01 ± 7.11E+00
	Zn-65	03/28/91	1.20E+00 ± 2.30E+00	1.50E+00 ± 7.95E+00
	K-40	06/20/91	8.10E+01 ± 1.90E+01	1.57E+02 ± 7.25E+01
	Co-60	01/16/91	1.30E+00 ± 1.00E+00	1.08E+00 ± 5.09E+00
		03/28/91	3.00E-01 ± 1.00E+00	1.54E+00 ± 3.59E+00
		06/20/91	1.60E+00 ± 1.30E+00	2.47E+00 ± 4.95E+00
		09/10/91	-7.00E-02 ± 9.40E-01	2.00E+00 ± 2.74E+00
		12/04/91	3.10E-01 ± 1.03E+00	-2.18E+00 ± 8.28E+00
	H-3	01/16/91	-5.60E+01 ± 8.80E+01	4.43E+01 ± 2.41E+02
		03/28/91	2.00E+01 ± 1.20E+02	2.24E+02 ± 2.63E+02
		06/20/91	3.50E+01 ± 8.70E+01	-5.57E+01 ± 2.50E+02
		09/10/91	6.70E+01 ± 8.80E+01	9.76E+01 ± 1.96E+02
		12/04/91	1.03E+02 ± 8.90E+01	3.51E+01 ± 2.75E+02
	NO2+NO3	01/16/91	7.40E+01 ± 3.70E+00	4.79E+01 ± 0.00E+00
		03/28/91	8.50E+01 ± 4.00E+00	5.39E+01 ± 0.00E+00
		06/20/91	8.90E+01 ± 4.00E+00	5.45E+01 ± 0.00E+00
		09/10/91	7.50E+01 ± 4.00E+00	5.39E+01 ± 0.00E+00
		12/04/91	5.80E+01 ± 2.90E+00	4.90E+01 ± 2.76E+01
1-N-32	Gross Alpha	09/18/91	2.00E+00 ± 2.00E+00	3.60E-01 ± 6.40E-01
		12/05/91	2.00E+00 ± 3.00E+00	6.50E-01 ± 8.80E-01
	Gross Beta	09/18/91	4.70E+01 ± 2.00E+00	1.72E+01 ± 3.58E+00
		12/05/91	4.30E+01 ± 2.00E+00	1.90E+02 ± 2.53E+01
	Sr-90	09/18/91	5.40E+00 ± 7.00E-01	5.00E+00 ± 1.13E+00
		12/05/91	3.52E+00 ± 6.70E-01	4.07E+00 ± 9.70E-01

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
	Cs-137	09/18/91	0.00E+00 ± 9.40E-01	3.05E+00 ± 6.11E+00
		12/05/91	-2.00E-01 ± 1.10E+00	-1.04E+00 ± 6.76E+00
	K-40	09/18/91	3.21E+01 ± 1.80E+01	2.81E+02 ± 1.51E+02
	Co-60	09/18/91	1.52E+01 ± 2.50E+00	3.03E+01 ± 1.08E+01
		12/05/91	2.30E+01 ± 3.00E+00	1.06E+01 ± 1.09E+01
	H-3	09/18/91	9.90E+04 ± 6.00E+02	1.03E+05 ± 7.68E+03
		12/05/91	1.03E+05 ± 1.00E+03	1.07E+05 ± 8.01E+03
	Sb-125	09/18/91	1.93E+01 ± 2.70E+00	2.67E+01 ± 1.56E+01
		12/05/91	2.00E+01 ± 5.00E+00	2.72E+01 ± 1.96E+01
	NO2+NO3	09/18/91	1.47E+01 ± 8.00E-01	9.70E+00 ± 0.00E+00
		12/05/91	2.00E+01 ± 1.00E+00	3.50E+00 ± 1.97E+00
6-24-33	Gross Alpha	01/18/91	7.60E+00 ± 2.30E+00	3.50E+00 ± 2.05E+00
		03/28/91	3.00E+00 ± 6.00E+00	3.59E+00 ± 2.06E+00
		06/20/91	5.00E+00 ± 2.00E+00	2.21E+00 ± 1.62E+00
		09/10/91	3.00E+00 ± 2.00E+00	2.68E+00 ± 1.85E+00
		12/04/91	4.10E+00 ± 3.00E+00	4.60E+00 ± 2.39E+00
	Gross Beta	01/18/91	2.20E+01 ± 2.00E+00	1.34E+01 ± 3.44E+00
		03/28/91	2.20E+01 ± 2.00E+00	1.39E+01 ± 3.42E+00
		06/20/91	2.00E+01 ± 2.00E+00	1.48E+01 ± 3.51E+00
		09/10/91	1.78E+01 ± 1.70E+00	1.49E+01 ± 3.58E+00
		12/04/91	2.40E+01 ± 2.00E+00	1.39E+01 ± 3.45E+00
	Ru-106	03/28/91	-2.00E+00 ± 1.40E+01	6.83E+00 ± 3.08E+01
		06/20/91	6.00E+00 ± 1.30E+01	3.45E+01 ± 3.71E+01
	Cs-134	03/28/91	4.00E-01 ± 1.30E+00	-1.50E+00 ± 2.94E+00
		06/20/91	-1.70E+00 ± 1.50E+00	2.83E+00 ± 3.79E+00
	Cs-137	03/28/91	-2.00E-01 ± 1.60E+00	-9.90E-01 ± 3.43E+00
		06/20/91	-7.00E-01 ± 1.60E+00	5.60E-01 ± 4.10E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		09/10/91	-4.00E-01 ± 1.00E+00	6.10E-01 ± 3.51E+00
		12/04/91	3.00E-01 ± 9.00E-01	7.51E+00 ± 5.48E+00
	Zr-95	03/28/91	-6.00E-01 ± 2.00E+00	3.56E+00 ± 5.48E+00
		06/20/91	-4.00E-01 ± 2.20E+00	3.56E+00 ± 1.46E+01
	Zn-65	03/28/91	1.20E+00 ± 3.40E+00	-2.60E+00 ± 6.89E+00
		06/20/91	-3.00E+00 ± 4.00E+00	-1.77E+01 ± 1.31E+01
	K-40	09/10/91	6.14E+00 ± 2.55E+01	5.86E+01 ± 4.40E+01
	Co-60	03/28/91	-1.00E-01 ± 1.70E+00	2.40E+00 ± 2.84E+00
		06/20/91	2.00E+00 ± 2.00E+00	3.46E+00 ± 4.09E+00
		09/10/91	-2.00E-01 ± 1.80E+00	1.55E+00 ± 3.81E+00
		12/04/91	1.20E+00 ± 1.10E+00	-4.36E+00 ± 1.03E+01
	H-3	01/18/91	2.69E+05 ± 1.00E+03	3.06E+05 ± 2.25E+04
		03/28/91	3.00E+05 ± 1.00E+03	3.30E+05 ± 2.42E+04
		06/20/91	2.68E+05 ± 1.00E+03	3.13E+05 ± 2.29E+04
		09/10/91	2.97E+05 ± 1.00E+03	3.18E+05 ± 2.33E+04
		12/04/91	2.91E+05 ± 1.00E+03	3.06E+05 ± 2.25E+04
	NO2+NO3	01/18/91	5.70E+01 ± 2.90E+00	3.78E+01 ± 0.00E+00
		06/20/91	6.20E+01 ± 3.00E+00	3.68E+01 ± 0.00E+00
		09/10/91	5.40E+01 ± 3.00E+00	3.54E+01 ± 0.00E+00
6-31-31	Gross Alpha	01/17/91	2.00E+00 ± 3.00E+00	1.57E+00 ± 1.22E+00
	Gross Beta	01/17/91	1.10E+01 ± 1.00E+00	9.70E+00 ± 2.93E+00
	Cs-137	01/17/91	4.00E-01 ± 1.30E+00	-1.66E+00 ± 2.64E+00
	Co-60	01/17/91	-9.00E-01 ± 1.30E+00	3.96E+00 ± 3.56E+00
	H-3	01/17/91	1.26E+04 ± 2.00E+02	1.55E+04 ± 1.31E+03
	NO2+NO3	01/17/91	6.00E+00 ± 3.00E-01	2.78E+00 ± 0.00E+00
6-35-70	Gross Alpha	01/17/91	1.00E+00 ± 4.00E+00	1.65E+00 ± 1.31E+00
		04/15/91	3.00E+00 ± 4.00E+00	3.55E+00 ± 1.91E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/14/91	7.50E+00 ± 5.50E+00	-1.30E-01 ± 5.80E-01
		09/10/91	5.80E+00 ± 3.60E+00	1.08E+00 ± 1.17E+00
		12/04/91	4.00E+00 ± 4.00E+00	2.14E+00 ± 1.44E+00
	Total U	12/04/91	2.86E+00 ± 2.30E-01	2.10E+00 ± 6.66E-01
	Gross Beta	01/17/91	2.50E+01 ± 2.00E+00	1.50E+01 ± 3.54E+00
		04/15/91	2.40E+01 ± 2.00E+00	1.34E+01 ± 3.35E+00
		06/14/91	2.20E+01 ± 2.00E+00	1.17E+01 ± 3.17E+00
		09/10/91	2.20E+01 ± 2.00E+00	1.36E+01 ± 3.38E+00
		12/04/91	2.50E+01 ± 2.00E+00	1.41E+01 ± 3.47E+00
	Ru-106	01/17/91	-3.00E+00 ± 9.00E+00	-4.27E+01 ± 4.30E+01
		04/15/91	-6.00E+00 ± 1.50E+01	-7.28E+00 ± 3.25E+01
	Cs-134	04/15/91	3.00E-01 ± 1.60E+00	-2.03E+00 ± 2.89E+00
	Cs-137	01/17/91	-1.00E-01 ± 1.00E+00	5.10E-01 ± 2.75E+00
		04/15/91	-6.00E-01 ± 1.80E+00	3.70E+00 ± 3.31E+00
		06/14/91	1.00E-01 ± 1.10E+00	-3.90E-01 ± 2.94E+00
		09/10/91	8.00E-01 ± 1.10E+00	3.02E+00 ± 3.59E+00
		12/04/91	-2.00E-01 ± 1.10E+00	-1.30E+00 ± 7.56E+00
	Zr-95	04/15/91	1.00E+00 ± 2.00E+00	2.42E+00 ± 6.49E+00
	Zn-65	04/15/91	2.00E+00 ± 3.00E+00	4.99E+00 ± 5.88E+00
	K-40	04/15/91	3.00E+01 ± 3.00E+01	1.25E+02 ± 6.39E+01
		06/14/91	1.80E+01 ± 2.00E+01	1.49E+02 ± 5.96E+01
	Co-60	01/17/91	4.00E+00 ± 2.00E+00	4.39E+00 ± 3.67E+00
		04/15/91	4.00E+00 ± 2.00E+00	2.94E+00 ± 3.46E+00
		06/14/91	1.00E+00 ± 1.00E+00	6.00E-01 ± 3.88E+00
		09/10/91	1.90E+00 ± 1.30E+00	3.21E+00 ± 3.36E+00
		12/04/91	2.50E+00 ± 1.60E+00	-7.40E-01 ± 8.05E+00
	H-3	01/17/91	5.43E+05 ± 2.00E+03	6.80E+05 ± 4.97E+04

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		04/15/91	6.48E+05 ± 2.00E+03	5.80E+01 ± 2.57E+02
		06/14/91	6.16E+05 ± 2.00E+03	6.53E+05 ± 4.77E+04
		09/10/91	6.10E+05 ± 2.00E+03	6.46E+05 ± 4.73E+04
		12/04/91	5.94E+05 ± 2.00E+03	6.20E+05 ± 4.53E+04
	NO2+NO3	01/17/91	3.58E+01 ± 1.80E+00	2.32E+01 ± 0.00E+00
		04/15/91	3.90E+01 ± 2.00E+00	2.59E+01 ± 0.00E+00
		06/14/91	4.20E+01 ± 2.00E+00	2.38E+01 ± 0.00E+00
		09/10/91	4.10E+01 ± 2.00E+00	2.56E+01 ± 0.00E+00
		12/04/91	2.90E+01 ± 1.50E+00	4.90E+00 ± 2.76E+00
6-38-65	Gross Alpha	01/16/91	2.00E+00 ± 6.00E+00	4.24E+00 ± 2.23E+00
		04/01/91	2.00E+00 ± 6.00E+00	7.50E-01 ± 1.23E+00
		06/14/91	1.00E+00 ± 2.00E+00	9.90E-01 ± 1.24E+00
		09/10/91	2.00E+00 ± 2.00E+00	2.53E+00 ± 1.77E+00
		12/04/91	3.00E+00 ± 4.00E+00	1.91E+00 ± 1.61E+00
	Gross Beta	01/16/91	2.40E+01 ± 2.00E+00	1.81E+01 ± 3.83E+00
		04/01/91	2.30E+01 ± 2.00E+00	1.30E+01 ± 3.36E+00
		06/14/91	2.30E+01 ± 2.00E+00	1.58E+01 ± 3.69E+00
		09/10/91	3.10E+01 ± 2.00E+00	1.83E+01 ± 3.84E+00
		12/04/91	2.50E+01 ± 2.00E+00	1.37E+01 ± 3.49E+00
	Ru-106	01/16/91	-3.00E+00 ± 1.70E+01	1.92E+01 ± 4.28E+01
		04/01/91	-1.30E+01 ± 1.10E+01	-1.23E+01 ± 2.93E+01
		06/14/91	-3.60E+00 ± 9.70E+00	-3.77E+00 ± 2.38E+01
	Cs-134	04/01/91	-4.00E-01 ± 1.10E+00	-2.35E+00 ± 3.02E+00
		06/14/91	-1.00E+00 ± 1.00E+00	-1.00E+00 ± 3.16E+00
	Cs-137	01/16/91	1.20E+00 ± 1.70E+00	-1.80E-01 ± 3.45E+00
		04/01/91	0.00E+00 ± 1.30E+00	2.33E+00 ± 3.07E+00
		06/14/91	9.00E-02 ± 9.50E-01	5.90E-01 ± 3.87E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		09/10/91	-9.00E-02 ± 9.90E-01	-1.53E+00 ± 3.39E+00
		12/04/91	5.50E-01 ± 1.32E+00	-1.01E+00 ± 5.36E+00
	Zr-95	04/01/91	-5.00E-01 ± 1.40E+00	4.75E+00 ± 6.37E+00
		06/14/91	3.00E-01 ± 1.40E+00	-2.20E+00 ± 7.62E+00
	Zn-65	04/01/91	-5.00E-01 ± 2.60E+00	1.12E+00 ± 6.09E+00
		06/14/91	-2.00E+00 ± 2.00E+00	-1.55E+00 ± 7.61E+00
	K-40	04/01/91	2.80E+01 ± 2.00E+01	8.78E+01 ± 4.89E+01
	Co-60	01/16/91	2.70E+00 ± 1.80E+00	2.60E+00 ± 3.99E+00
		04/01/91	4.00E+00 ± 2.60E+00	3.71E+00 ± 4.25E+00
		06/14/91	1.00E+00 ± 1.00E+00	-4.62E+00 ± 5.08E+00
		09/10/91	1.50E+00 ± 1.78E+00	3.70E-01 ± 5.00E+00
		12/04/91	3.84E+00 ± 1.63E+00	-3.71E+00 ± 7.42E+00
	H-3	01/16/91	3.71E+05 ± 1.00E+03	4.46E+05 ± 3.26E+04
		04/01/91	4.28E+05 ± 1.00E+03	4.61E+05 ± 3.37E+04
		06/14/91	3.78E+05 ± 1.00E+03	4.45E+05 ± 3.26E+04
		09/10/91	4.33E+05 ± 1.00E+03	4.60E+05 ± 3.37E+04
		12/04/91	4.39E+05 ± 1.00E+03	4.63E+05 ± 3.39E+04
	NO2+NO3	01/16/91	2.19E+02 ± 1.10E+01	1.50E+02 ± 0.00E+00
		04/01/91	2.39E+02 ± 1.20E+01	1.72E+02 ± 0.00E+00
		06/14/91	3.11E+02 ± 1.60E+01	1.60E+02 ± 0.00E+00
		09/10/91	2.23E+02 ± 1.10E+01	1.72E+02 ± 0.00E+00
		12/04/91	1.50E+02 ± 8.00E+00	3.50E+01 ± 1.97E+01
6-40-1	Gross Alpha	01/18/91	3.00E+00 ± 4.00E+00	3.19E+00 ± 1.80E+00
		06/26/91	5.10E+00 ± 4.20E+00	-1.50E-01 ± 5.80E-01
		09/10/91	5.00E+00 ± 5.00E+00	2.52E+00 ± 1.63E+00
		12/03/91	8.00E+00 ± 3.00E+00	2.30E+00 ± 1.49E+00
	Gross Beta	01/18/91	6.50E+01 ± 3.00E+00	4.18E+01 ± 5.80E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/26/91	6.40E+01 ± 3.00E+00	2.30E+01 ± 4.18E+00
		09/10/91	6.60E+01 ± 3.00E+00	4.16E+01 ± 5.80E+00
		12/03/91	7.80E+01 ± 3.00E+00	3.92E+01 ± 5.54E+00
	Ru-106	01/18/91	-5.00E+00 ± 1.50E+01	8.82E+00 ± 4.29E+01
	Cs-137	01/18/91	1.00E-01 ± 1.60E+00	3.64E+00 ± 2.05E+00
		06/26/91	6.00E-01 ± 1.00E+00	-1.30E-01 ± 3.23E+00
		09/10/91	3.00E-01 ± 1.10E+00	-2.52E+00 ± 3.13E+00
		12/03/91	2.40E-01 ± 1.62E+00	-9.00E-02 ± 2.46E+00
	Co-60	01/18/91	3.00E+00 ± 2.50E+00	1.55E+00 ± 6.78E+00
		06/26/91	2.90E+00 ± 2.00E+00	5.14E+00 ± 4.79E+00
		09/10/91	3.80E+00 ± 1.90E+00	1.33E+00 ± 3.67E+00
		12/03/91	4.33E+00 ± 1.94E+00	6.99E+00 ± 3.56E+00
	H-3	01/18/91	1.84E+05 ± 1.00E+03	2.05E+05 ± 1.51E+04
		06/26/91	1.75E+05 ± 1.00E+03	2.12E+05 ± 1.56E+04
		09/10/91	1.98E+05 ± 1.00E+03	2.07E+05 ± 1.53E+04
		12/03/91	2.04E+05 ± 1.00E+03	2.12E+05 ± 1.56E+04
	NO2+NO3	01/18/91	6.47E+01 ± 3.30E+00	4.44E+01 ± 0.00E+00
		06/26/91	6.50E+01 ± 3.00E+00	4.12E+01 ± 0.00E+00
		12/03/91	4.70E+01 ± 2.40E+00	8.00E+00 ± 4.50E+00
	Tc-99	06/26/91	1.57E+02 ± 1.60E+01	1.42E+02 ± 1.68E+01
6-40-33A	Gross Alpha	01/16/91	2.00E+00 ± 3.00E+00	1.47E+00 ± 1.26E+00
		04/15/91	3.00E+00 ± 3.00E+00	1.69E+00 ± 1.60E+00
		06/20/91	2.00E+00 ± 1.00E+00	3.26E+00 ± 2.15E+00
		09/10/91	1.00E+00 ± 1.00E+00	1.52E+00 ± 1.40E+00
		12/04/91	3.00E+00 ± 3.00E+00	1.83E+00 ± 1.44E+00
	Gross Beta	01/16/91	9.00E+00 ± 1.00E+00	9.46E+00 ± 3.01E+00
		04/15/91	8.00E+00 ± 1.00E+00	4.07E+00 ± 2.43E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/20/91	9.00E+00 ± 1.00E+00	6.81E+00 ± 2.78E+00
		09/10/91	8.00E+00 ± 1.00E+00	7.11E+00 ± 2.79E+00
		12/04/91	8.00E+00 ± 1.00E+00	7.31E+00 ± 2.78E+00
	Ru-106	01/16/91	-2.00E+00 ± 1.40E+01	1.73E+01 ± 5.07E+01
		04/15/91	5.00E+00 ± 1.00E+01	4.73E+00 ± 3.08E+01
	Cs-134	04/15/91	-4.00E+00 ± 1.00E+00	-7.80E-01 ± 2.95E+00
	Cs-137	01/16/91	-1.50E+00 ± 1.60E+00	4.00E-02 ± 3.65E+00
		04/15/91	-5.00E-01 ± 1.20E+00	5.70E-01 ± 3.68E+00
		09/10/91	-3.00E-01 ± 1.10E+00	-1.74E+00 ± 3.50E+00
		12/04/91	2.00E+00 ± 9.10E+00	-3.93E+00 ± 6.33E+00
	Zr-95	04/15/91	-1.00E+00 ± 1.00E+00	6.43E+00 ± 7.48E+00
	Zn-65	04/15/91	-4.00E+00 ± 3.00E+00	-2.99E+00 ± 7.02E+00
	K-40	04/15/91	3.20E+01 ± 2.50E+01	5.59E+01 ± 5.97E+01
	Co-60	01/16/91	8.00E-01 ± 1.50E+00	2.52E+00 ± 3.22E+00
		04/15/91	-2.00E+00 ± 1.10E+00	2.06E+00 ± 3.23E+00
		09/10/91	-1.30E+00 ± 1.10E+00	1.20E+00 ± 3.02E+00
		12/04/91	9.30E-01 ± 9.40E-01	0.00E+00 ± 5.86E+00
	H-3	01/16/91	-5.50E+01 ± 8.70E+01	-4.23E+01 ± 2.36E+02
		04/15/91	-7.00E+00 ± 1.16E+02	-4.76E+01 ± 2.52E+02
		06/20/91	-2.00E+01 ± 8.60E+01	-2.08E+02 ± 2.43E+02
		09/10/91	-1.90E+01 ± 8.50E+01	1.65E+02 ± 2.87E+02
		12/04/91	2.00E+00 ± 8.60E+01	2.68E+01 ± 2.75E+02
	NO2+NO3	01/16/91	2.00E+00 ± 1.00E-01	2.83E-01 ± 0.00E+00
6-41-1	Gross Alpha	01/16/91	4.00E+00 ± 4.00E+00	4.15E+00 ± 2.04E+00
		04/15/91	3.00E+00 ± 4.00E+00	1.35E+00 ± 1.51E+00
		06/26/91	7.10E+00 ± 2.30E+00	2.26E+00 ± 1.46E+00
		09/10/91	4.00E+00 ± 5.00E+00	1.82E+00 ± 1.45E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		12/03/91	7.70E+00 ± 2.80E+00	1.85E+00 ± 1.39E+00
	Gross Beta	01/16/91	6.70E+01 ± 3.00E+00	4.10E+01 ± 5.77E+00
		04/15/91	6.40E+01 ± 3.00E+00	3.85E+01 ± 5.49E+00
		06/26/91	6.70E+01 ± 3.00E+00	2.44E+01 ± 4.34E+00
		09/10/91	5.20E+01 ± 3.00E+00	4.29E+01 ± 5.84E+00
		12/03/91	1.00E+02 ± 5.00E+00	4.20E+01 ± 5.84E+00
	Ru-106	01/16/91	-5.00E+00 ± 1.10E+01	1.13E+02 ± 1.15E+02
		04/15/91	-1.00E+01 ± 1.00E+01	-4.69E+01 ± 3.29E+01
	Cs-134	04/15/91	-1.50E+00 ± 1.10E+00	7.00E-02 ± 3.07E+00
	Cs-137	01/16/91	1.00E+00 ± 1.20E+00	7.60E-01 ± 7.59E+00
		04/15/91	1.20E+00 ± 1.10E+00	-2.30E+00 ± 3.26E+00
		06/26/91	-2.00E-01 ± 1.10E+00	5.00E-02 ± 2.80E+00
		09/10/91	4.00E-01 ± 1.10E+00	-3.95E+00 ± 3.65E+00
		12/03/91	-1.00E+00 ± 1.50E+00	3.00E-01 ± 3.62E+00
	Zr-95	04/15/91	-1.00E-01 ± 1.20E+00	4.66E+00 ± 4.45E+00
	Zn-65	04/15/91	-2.00E-01 ± 2.30E+00	1.87E+00 ± 5.89E+00
	K-40	09/10/91	1.63E+01 ± 2.34E+01	6.85E+01 ± 7.74E+01
	Co-60	01/16/91	6.00E+00 ± 2.00E+00	-5.40E-01 ± 1.27E+01
		04/15/91	3.50E+00 ± 1.90E+00	-1.47E+00 ± 4.94E+00
		06/26/91	5.40E+00 ± 1.50E+00	7.10E-01 ± 4.88E+00
		09/10/91	3.80E+00 ± 1.50E+00	6.41E+00 ± 4.77E+00
		12/03/91	6.00E+00 ± 2.20E+00	2.39E+00 ± 4.14E+00
	H-3	01/16/91	1.72E+05 ± 1.00E+03	2.09E+05 ± 1.54E+04
		04/15/91	2.05E+05 ± 1.00E+03	6.93E+05 ± 5.06E+04
		06/26/91	1.84E+05 ± 1.00E+03	2.07E+05 ± 1.52E+04
		09/10/91	2.01E+05 ± 1.00E+03	2.12E+05 ± 1.56E+04
		12/03/91	2.03E+05 ± 1.00E+03	2.13E+05 ± 1.57E+04

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
	NO2+NO3	01/16/91	5.42E+01 ± 2.70E+00	4.48E+01 ± 0.00E+00
		04/15/91	6.30E+01 ± 3.00E+00	4.13E+01 ± 0.00E+00
		06/26/91	6.50E+01 ± 3.00E+00	4.14E+01 ± 0.00E+00
		12/03/91	4.82E+01 ± 2.40E+00	3.60E+01 ± 2.03E+01
R6-49-100C	Gross Alpha	01/18/91	2.00E+00 ± 5.00E+00	2.61E+00 ± 1.85E+00
		04/01/91	2.00E+00 ± 5.00E+00	2.21E+00 ± 1.72E+00
		06/20/91	1.00E+00 ± 2.00E+00	2.60E+00 ± 1.81E+00
	Total U	04/01/91	2.83E+00 ± 3.00E-01	1.63E+00 ± 5.34E-01
		06/20/91	2.65E+00 ± 2.70E-01	1.63E+00 ± 5.34E-01
	Gross Beta	01/18/91	9.00E+00 ± 1.00E+00	8.12E+00 ± 2.99E+00
		04/01/91	8.00E+00 ± 1.00E+00	7.34E+00 ± 2.83E+00
		06/20/91	8.00E+00 ± 1.00E+00	7.01E+00 ± 2.75E+00
	Ru-106	01/18/91	9.00E+00 ± 1.40E+01	5.70E+01 ± 4.16E+01
		04/01/91	-6.00E+00 ± 1.30E+01	-1.98E+01 ± 3.33E+01
		06/20/91	-1.00E+01 ± 9.00E+00	-1.30E+01 ± 2.98E+01
	Cs-134	04/01/91	-9.00E-01 ± 1.40E+00	-2.36E+00 ± 3.19E+00
		06/20/91	-1.20E+00 ± 9.00E-01	-1.71E+00 ± 3.35E+00
	Cs-137	01/18/91	1.00E-01 ± 1.60E+00	7.10E-01 ± 3.03E+00
		06/20/91	0.00E+00 ± 1.00E+00	2.66E+00 ± 3.75E+00
	Zr-95	04/01/91	2.00E-01 ± 1.70E+00	-2.56E+00 ± 6.72E+00
		06/20/91	-1.00E+00 ± 1.00E+00	3.48E+00 ± 8.09E+00
	Zn-65	04/01/91	1.10E+00 ± 2.70E+00	5.10E-01 ± 9.02E+00
		06/20/91	-1.40E+00 ± 2.10E+00	-8.17E+00 ± 1.02E+01
	K-40	04/01/91	5.60E+01 ± 3.10E+01	1.22E+02 ± 5.78E+01
		06/20/91	5.00E+01 ± 2.00E+01	1.03E+02 ± 5.37E+01
	Co-60	01/18/91	3.00E+00 ± 2.00E+00	4.46E+00 ± 4.39E+00
		04/01/91	1.20E+00 ± 1.30E+00	1.55E+00 ± 3.59E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/20/91	1.00E+00 ± 9.00E-01	-3.30E+00 ± 4.53E+00
	H-3	01/18/91	5.70E+01 ± 9.10E+01	-1.11E+02 ± 2.33E+02
		04/01/91	1.10E+01 ± 1.15E+02	7.76E+01 ± 2.50E+02
		06/20/91	-5.40E+01 ± 8.50E+01	-7.73E+01 ± 2.50E+02
	NO2+NO3	01/18/91	1.90E+01 ± 1.00E+00	1.31E+01 ± 0.00E+00
		06/20/91	2.30E+01 ± 2.00E+00	1.35E+01 ± 0.00E+00
1-N-3	Gross Alpha	04/10/91	1.00E+00 ± 3.00E+00	1.88E+00 ± 1.59E+00
		12/05/91	3.00E+00 ± 4.00E+00	6.20E-01 ± 8.00E-01
	Gross Beta	12/05/91	1.32E+03 ± 3.00E+01	1.17E+03 ± 9.74E+01
	Sr-90	12/05/91	6.33E+02 ± 1.00E+01	5.57E+02 ± 9.81E+01
	Cs-137	12/05/91	-1.00E-01 ± 1.30E+00	-7.34E+00 ± 8.58E+00
	Co-60	12/05/91	5.10E+00 ± 2.30E+00	4.80E+00 ± 9.64E+00
	H-3	12/05/91	2.10E+04 ± 3.00E+02	2.13E+04 ± 1.76E+03
	Sb-125	12/05/91	8.30E+00 ± 5.40E+00	4.12E+00 ± 1.72E+01
	NO2+NO3	12/05/91	2.00E+01 ± 1.00E+00	3.50E+00 ± 1.97E+00
6-S6-E4D	Gross Alpha	03/29/91	4.00E+00 ± 2.00E+00	3.82E+00 ± 2.30E+00
		06/21/91	5.20E+00 ± 2.40E+00	3.26E+00 ± 2.24E+00
		09/10/91	4.00E+00 ± 5.00E+00	8.40E-01 ± 1.20E+00
		12/03/91	6.00E+00 ± 5.00E+00	2.37E+00 ± 1.67E+00
	Total U	12/03/91	4.02E+00 ± 3.50E-01	2.78E+00 ± 8.50E-01
	Gross Beta	03/29/91	2.20E+01 ± 2.00E+00	2.10E+01 ± 4.08E+00
		06/21/91	2.00E+01 ± 2.00E+00	1.79E+01 ± 3.83E+00
		09/10/91	2.60E+01 ± 2.00E+00	1.76E+01 ± 3.80E+00
		12/03/91	2.40E+01 ± 2.00E+00	1.72E+01 ± 3.74E+00
	Ru-106	03/29/91	-1.00E+00 ± 1.10E+01	-1.31E+01 ± 2.69E+01
	Cs-134	03/29/91	-1.20E+00 ± 1.20E+00	-9.80E-01 ± 2.88E+00
	Cs-137	03/29/91	1.00E-01 ± 1.30E+00	-1.51E+00 ± 3.35E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/21/91	5.00E-01 ± 1.50E+00	-3.90E-01 ± 3.18E+00
		09/10/91	-8.90E-01 ± 9.80E-01	-1.38E+00 ± 3.86E+00
		12/03/91	-1.10E+00 ± 1.50E+00	5.80E-01 ± 3.46E+00
	Zr-95	03/29/91	-1.50E+00 ± 1.80E+00	-1.90E+00 ± 6.25E+00
	Zn-65	03/29/91	9.00E-01 ± 2.90E+00	4.91E+00 ± 5.14E+00
	Co-60	03/29/91	-1.10E+00 ± 1.50E+00	1.75E+00 ± 3.28E+00
		06/21/91	3.30E+00 ± 1.40E+00	1.78E+00 ± 3.33E+00
		09/10/91	1.95E+00 ± 9.80E-01	8.90E-01 ± 4.16E+00
		12/03/91	2.99E+00 ± 1.45E+00	3.39E+00 ± 2.58E+00
	H-3	03/29/91	3.80E+04 ± 4.00E+02	4.06E+04 ± 3.13E+03
		06/21/91	3.34E+04 ± 4.00E+02	3.78E+04 ± 2.93E+03
		09/10/91	3.80E+04 ± 4.00E+02	3.93E+04 ± 3.06E+03
		12/03/91	3.82E+04 ± 4.00E+02	3.95E+04 ± 3.08E+03
	NO2+NO3	03/29/91	4.00E+01 ± 2.00E+00	2.67E+01 ± 0.00E+00
		06/21/91	4.20E+01 ± 2.00E+00	2.63E+01 ± 0.00E+00
		12/03/91	3.02E+01 ± 1.50E+00	5.30E+00 ± 2.98E+00
6-S19-11	Gross Alpha	01/16/91	2.00E+00 ± 3.00E+00	1.97E+00 ± 1.38E+00
		04/01/91	1.00E+00 ± 3.00E+00	2.88E+00 ± 1.81E+00
		06/24/91	2.90E+00 ± 2.70E+00	8.30E-01 ± 1.06E+00
		09/10/91	2.70E+00 ± 2.70E+00	1.38E+00 ± 1.20E+00
		12/05/91	3.00E+00 ± 3.00E+00	2.61E+00 ± 1.58E+00
	Gross Beta	01/16/91	7.00E+00 ± 1.00E+00	7.27E+00 ± 2.83E+00
		04/01/91	7.00E+00 ± 1.00E+00	6.50E+00 ± 2.62E+00
		06/24/91	6.00E+00 ± 1.00E+00	6.38E+00 ± 2.59E+00
		09/10/91	6.00E+00 ± 1.00E+00	2.92E+00 ± 2.23E+00
		12/05/91	5.80E+00 ± 1.00E+00	3.30E+00 ± 2.36E+00
	Ru-106	04/01/91	-6.00E+00 ± 1.40E+01	1.43E+01 ± 2.77E+01

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
	Cs-134	04/01/91	-6.00E-01 ± 1.60E+00	2.18E+00 ± 3.27E+00
	Cs-137	04/01/91	-1.00E-01 ± 1.50E+00	2.48E+00 ± 3.41E+00
		06/24/91	4.00E-01 ± 1.00E+00	1.70E+00 ± 2.91E+00
		09/10/91	4.00E-01 ± 1.10E+00	1.56E+00 ± 3.58E+00
		12/05/91	-1.00E-01 ± 1.30E+00	9.60E-01 ± 6.78E+00
	Zr-95	04/01/91	1.00E+00 ± 2.00E+00	-2.35E+00 ± 7.42E+00
	Zn-65	04/01/91	1.00E+00 ± 3.00E+00	5.30E+00 ± 8.72E+00
	K-40	06/24/91	5.50E+01 ± 2.00E+01	1.44E+02 ± 6.14E+01
	Co-60	04/01/91	-1.20E+00 ± 1.30E+00	-1.32E+00 ± 4.24E+00
		06/24/91	1.00E+00 ± 9.00E-01	-2.35E+00 ± 3.65E+00
		09/10/91	-4.00E-01 ± 1.20E+00	4.70E-01 ± 3.12E+00
		12/05/91	1.60E+00 ± 1.30E+00	-1.62E+00 ± 7.86E+00
	H-3	01/16/91	-7.40E+01 ± 8.70E+01	-1.41E+01 ± 2.38E+02
		04/01/91	-4.10E+01 ± 1.15E+02	-3.31E+01 ± 2.44E+02
		06/24/91	4.00E+01 ± 8.80E+01	3.17E+02 ± 2.57E+02
		09/10/91	1.30E+01 ± 8.60E+01	1.05E+02 ± 2.85E+02
		12/05/91	4.90E+01 ± 8.70E+01	6.29E+01 ± 2.77E+02
	NO2+NO3	01/16/91	1.94E+01 ± 1.00E+00	1.13E+01 ± 0.00E+00
		04/01/91	1.90E+01 ± 1.00E+00	1.17E+01 ± 0.00E+00
		06/24/91	2.00E+01 ± 1.00E+00	1.22E+01 ± 0.00E+00
		12/05/91	3.30E+01 ± 1.70E+00	4.10E+00 ± 2.31E+00
6-S30-E15A	Gross Alpha	01/18/91	1.00E+00 ± 4.00E+00	1.45E+00 ± 1.29E+00
		03/29/91	2.00E+00 ± 5.00E+00	1.07E+00 ± 1.21E+00
		06/21/91	3.70E+00 ± 5.00E+00	1.07E+00 ± 1.12E+00
		09/10/91	3.30E+00 ± 4.20E+00	1.43E+00 ± 1.23E+00
	Gross Beta	01/18/91	8.00E+00 ± 1.00E+00	7.76E+00 ± 2.87E+00
		03/29/91	7.00E+00 ± 1.00E+00	8.30E+00 ± 2.86E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/21/91	8.00E+00 ± 1.00E+00	4.31E+00 ± 2.52E+00
		09/10/91	8.00E+00 ± 1.00E+00	1.37E+01 ± 3.42E+00
	Ru-106	01/18/91	1.00E+01 ± 9.00E+00	-2.74E+01 ± 5.37E+01
		03/29/91	-8.00E+00 ± 1.10E+01	-1.16E+01 ± 2.45E+01
	Cs-134	03/29/91	-2.00E-01 ± 1.10E+00	-9.10E-01 ± 3.11E+00
	Cs-137	01/18/91	4.00E-01 ± 1.00E+00	-1.98E+00 ± 2.97E+00
		03/29/91	-2.00E-01 ± 1.20E+00	-3.37E+00 ± 3.25E+00
		06/21/91	-4.00E-01 ± 1.10E+00	5.20E-01 ± 3.13E+00
		09/10/91	-5.00E-01 ± 1.00E+00	1.52E+00 ± 3.05E+00
	Zr-95	03/29/91	1.00E-01 ± 1.50E+00	1.80E+00 ± 6.47E+00
	Zn-65	03/29/91	-1.80E+00 ± 2.50E+00	6.42E+00 ± 5.59E+00
	Co-60	01/18/91	1.00E+00 ± 1.00E+00	1.22E+00 ± 4.30E+00
		03/29/91	2.00E-01 ± 1.10E+00	3.72E+00 ± 3.23E+00
		06/21/91	2.00E-01 ± 1.10E+00	5.90E-01 ± 3.64E+00
		09/10/91	6.00E+00 ± 2.00E+00	8.90E-01 ± 3.08E+00
	H-3	01/18/91	2.11E+02 ± 9.20E+01	-6.14E+01 ± 2.35E+02
		03/29/91	2.10E+01 ± 1.16E+02	1.04E+01 ± 2.56E+02
		06/21/91	8.10E+01 ± 8.70E+01	-1.44E+01 ± 2.52E+02
		09/10/91	1.37E+02 ± 8.90E+01	7.58E+01 ± 2.83E+02
	NO2+NO3	01/18/91	2.32E+01 ± 1.20E+00	9.54E+00 ± 0.00E+00
		03/29/91	2.00E+01 ± 1.00E+00	1.22E+01 ± 0.00E+00
		06/21/91	2.20E+01 ± 1.00E+00	1.24E+01 ± 0.00E+00
3-1-17A	Gross Alpha	01/16/91	2.20E+02 ± 1.50E+01	1.78E+02 ± 4.07E+01
		03/25/91	3.00E+02 ± 1.40E+01	1.75E+02 ± 4.03E+01
		06/24/91	2.33E+02 ± 1.80E+01	1.31E+02 ± 2.53E+01
		09/10/91	9.20E+01 ± 9.00E+00	5.27E+01 ± 1.25E+01
		12/03/91	7.90E+01 ± 8.00E+00	3.73E+01 ± 9.84E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
	Total U	01/16/91	1.93E+02 ± 4.00E+00	1.24E+02 ± 3.45E+01
		03/25/91	2.62E+02 ± 9.00E+00	3.64E+02 ± 1.59E+02
		06/24/91	2.08E+02 ± 9.00E+00	1.49E+02 ± 4.92E+01
		12/03/91	6.79E+01 ± 1.40E+00	4.03E+01 ± 1.20E+01
	Gross Beta	01/16/91	1.05E+02 ± 3.00E+00	1.02E+02 ± 1.02E+01
		03/25/91	1.48E+02 ± 4.00E+00	5.64E+01 ± 6.78E+00
		06/24/91	1.33E+02 ± 4.00E+00	5.30E+01 ± 6.52E+00
		09/10/91	3.90E+01 ± 2.00E+00	1.94E+01 ± 3.86E+00
		12/03/91	2.00E+01 ± 2.00E+00	9.90E+00 ± 2.97E+00
	Ru-106	01/16/91	1.00E+00 ± 1.50E+01	-1.29E+01 ± 4.98E+01
		03/25/91	-6.00E-01 ± 9.90E+00	2.00E+01 ± 2.58E+01
	Cs-134	03/25/91	-2.80E+00 ± 1.10E+00	1.17E+00 ± 3.32E+00
	Cs-137	01/16/91	4.00E-01 ± 1.60E+00	5.10E-01 ± 3.63E+00
		03/25/91	-4.00E-01 ± 1.00E+00	-6.50E-01 ± 2.88E+00
		06/24/91	-9.00E-01 ± 1.50E+00	1.16E+00 ± 4.02E+00
		09/10/91	2.90E-01 ± 9.80E-01	3.73E+00 ± 1.90E+00
		12/03/91	1.00E-01 ± 1.20E+00	1.20E+00 ± 4.15E+00
	Zr-95	03/25/91	1.20E+00 ± 1.40E+00	-4.48E+00 ± 8.54E+00
	Zn-65	03/25/91	-7.00E-01 ± 2.20E+00	5.24E+00 ± 8.08E+00
	K-40	03/25/91	2.40E+01 ± 2.00E+01	1.08E+02 ± 5.83E+01
		09/10/91	3.53E+01 ± 1.96E+01	2.10E+02 ± 6.49E+01
	Co-60	01/16/91	-5.00E-01 ± 1.40E+00	-2.60E-01 ± 2.19E+00
		03/25/91	1.00E+00 ± 1.00E+00	-1.18E+00 ± 3.38E+00
		06/24/91	1.00E-01 ± 1.50E+00	-1.23E+00 ± 3.49E+00
		09/10/91	1.26E+00 ± 9.30E-01	-2.00E-01 ± 3.73E+00
		12/03/91	-5.00E-01 ± 1.40E+00	1.46E+00 ± 5.24E+00
	H-3	01/16/91	-3.60E+01 ± 8.90E+01	6.04E+00 ± 2.39E+02

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		03/25/91	7.70E+01 ± 1.17E+02	2.21E+02 ± 2.57E+02
		06/24/91	1.91E+02 ± 9.00E+01	5.41E+02 ± 2.68E+02
		09/10/91	4.22E+02 ± 9.50E+01	6.65E+02 ± 2.27E+02
		12/03/91	3.14E+02 ± 9.40E+01	2.29E+02 ± 2.94E+02
	NO2+NO3	01/16/91	4.00E+00 ± 2.00E-01	1.86E+00 ± 0.00E+00
		03/25/91	5.00E+00 ± 3.00E-01	1.53E+00 ± 0.00E+00
		06/24/91	3.00E+00 ± 2.00E-01	1.73E+00 ± 0.00E+00
		09/10/91	4.40E+00 ± 2.00E-01	1.32E+00 ± 0.00E+00
		12/03/91	4.00E+00 ± 2.00E-01	3.40E-01 ± 1.91E-01
1-N-14	Gross Alpha	01/17/91	1.00E+00 ± 2.00E+00	2.00E-01 ± 5.70E-01
		03/28/91	1.00E+00 ± 2.00E+00	2.80E+01 ± 6.70E+00
		09/18/91	3.00E+00 ± 3.00E+00	6.70E-01 ± 7.60E-01
		12/05/91	5.00E+00 ± 3.00E+00	5.00E-02 ± 4.20E-01
	Gross Beta	09/18/91	2.10E+03 ± 3.00E+01	1.14E+03 ± 8.49E+01
		12/05/91	2.31E+03 ± 3.00E+01	1.93E+03 ± 1.54E+02
	Sr-90	09/18/91	9.39E+02 ± 1.30E+01	5.13E+02 ± 1.33E+02
		12/05/91	1.08E+03 ± 2.00E+01	9.86E+02 ± 1.85E+02
	Cs-137	09/18/91	-1.07E+00 ± 1.18E+00	-1.72E+00 ± 3.96E+00
		12/05/91	1.00E+00 ± 1.30E+00	-9.50E-01 ± 7.01E+00
	Co-60	09/18/91	7.59E+00 ± 2.49E+00	1.21E+01 ± 6.34E+00
		12/05/91	5.90E+00 ± 2.70E+00	1.31E+00 ± 7.09E+00
	H-3	12/05/91	8.20E+04 ± 6.00E+02	8.56E+03 ± 8.44E+02
	Sb-125	09/18/91	2.58E+01 ± 6.70E+00	1.25E+01 ± 1.20E+01
		12/05/91	2.30E+01 ± 8.00E+00	1.70E-01 ± 1.72E+01
	NO2+NO3	09/18/91	9.70E+00 ± 5.00E-01	6.20E+00 ± 0.00E+00
		12/05/91	1.00E+01 ± 1.00E+00	1.40E+00 ± 7.88E-01
1-H4-4	Gross Alpha	01/16/91	3.60E+01 ± 1.10E+01	2.68E+01 ± 6.72E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		03/28/91	4.00E+00 ± 3.00E+00	2.99E+00 ± 1.91E+00
		06/06/91	3.00E+00 ± 3.00E+00	1.68E+00 ± 1.32E+00
		12/03/91	1.08E+02 ± 2.20E+01	3.03E+01 ± 6.68E+00
	Total U	03/28/91	3.70E+00 ± 6.00E-01	2.66E+00 ± 8.30E-01
		06/06/91	1.43E+00 ± 2.50E-01	2.81E+00 ± 8.68E-01
	Gross Beta	01/16/91	1.98E+02 ± 5.00E+00	1.13E+02 ± 1.10E+01
		03/28/91	1.30E+01 ± 1.00E+00	4.53E+00 ± 2.40E+00
		06/06/91	9.00E+00 ± 1.00E+00	6.82E+00 ± 2.67E+00
		12/03/91	4.10E+02 ± 7.00E+00	1.88E+02 ± 1.64E+01
	Ru-106	01/16/91	-5.00E+00 ± 9.00E+00	6.90E-01 ± 5.71E+01
		03/28/91	4.00E+00 ± 9.00E+00	1.51E+01 ± 2.48E+01
	Cs-134	03/28/91	7.00E-01 ± 1.00E+00	1.05E+00 ± 3.17E+00
	Cs-137	01/16/91	-2.00E-01 ± 1.00E+00	-9.00E-01 ± 4.14E+00
		03/28/91	-4.00E-01 ± 1.00E+00	1.68E+00 ± 3.50E+00
		12/03/91	-5.68E-01 ± 9.94E-01	7.40E-01 ± 3.41E+00
	Zr-95	03/28/91	4.00E-01 ± 1.40E+00	-2.44E+00 ± 6.22E+00
	Zn-65	03/28/91	1.00E+00 ± 2.00E+00	-9.29E+00 ± 8.52E+00
	Co-60	01/16/91	-4.00E-01 ± 1.00E+00	1.36E+00 ± 2.97E+00
		03/28/91	-2.00E-01 ± 1.10E+00	-1.09E+00 ± 3.09E+00
		12/03/91	1.21E+00 ± 1.17E+00	-2.43E+00 ± 4.87E+00
	H-3	01/16/91	1.33E+03 ± 1.10E+02	1.59E+03 ± 3.32E+02
		03/28/91	1.02E+03 ± 1.30E+02	1.07E+03 ± 3.09E+02
		09/18/91	2.62E+04 ± 1.30E+02	8.20E+04 ± 6.17E+03
		12/03/91	3.16E+03 ± 1.40E+02	3.09E+03 ± 4.67E+02
	NO2+NO3	01/16/91	2.34E+02 ± 1.20E+01	1.32E+02 ± 0.00E+00
		03/28/91	2.40E+01 ± 1.00E+00	1.54E+01 ± 0.00E+00
		06/06/91	1.10E+01 ± 1.00E+00	6.52E+00 ± 0.00E+00

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		12/03/91	2.72E+02 ± 1.40E+01	6.20E+01 ± 3.49E+01
2-W22-20	Gross Alpha	01/18/91	2.20E+01 ± 4.00E+00	2.21E+01 ± 8.98E+00
		04/01/91	1.70E+01 ± 4.00E+00	4.87E+00 ± 2.39E+00
		06/18/91	1.60E+01 ± 6.00E+00	7.93E+00 ± 4.50E+00
		12/05/91	1.40E+01 ± 6.00E+00	1.14E+01 ± 5.49E+00
	Total U	06/18/91	9.02E+00 ± 5.30E-01	6.87E+00 ± 1.98E+00
		12/05/91	7.90E+00 ± 4.00E-01	4.88E+00 ± 1.43E+00
	Gross Beta	01/18/91	6.00E+01 ± 3.00E+00	5.05E+01 ± 6.66E+00
		04/01/91	5.30E+01 ± 3.00E+00	3.01E+01 ± 4.91E+00
		06/18/91	5.30E+01 ± 3.00E+00	-6.31E+00 ± 2.85E+00
		12/05/91	5.60E+01 ± 3.00E+00	2.59E+01 ± 4.42E+00
	Ru-106	01/18/91	-4.00E+00 ± 1.30E+01	-6.16E+01 ± 5.01E+01
		04/01/91	-7.00E+00 ± 1.00E+01	-2.65E+01 ± 3.05E+01
	Cs-134	04/01/91	-1.00E+00 ± 1.10E+00	-2.09E+00 ± 3.79E+00
	Cs-137	01/18/91	-1.00E+00 ± 2.00E+00	-1.22E+00 ± 2.97E+00
		04/01/91	0.00E+00 ± 1.10E+00	7.80E-01 ± 2.53E+00
		06/18/91	-3.00E-01 ± 1.10E+00	1.15E+00 ± 3.01E+00
		12/05/91	-2.00E-02 ± 1.22E+00	4.64E+00 ± 8.02E+00
	Zr-95	04/01/91	6.00E-01 ± 1.40E+00	5.84E+00 ± 5.60E+00
	Zn-65	04/01/91	1.10E+00 ± 2.10E+00	-5.33E+00 ± 5.25E+00
	K-40	04/01/91	4.80E+01 ± 2.40E+01	8.49E+01 ± 7.40E+01
	Co-60	01/18/91	3.30E+00 ± 1.80E+00	2.20E-01 ± 4.18E+00
		04/01/91	2.70E+00 ± 2.10E+00	1.86E+00 ± 4.55E+00
		06/18/91	2.70E+00 ± 2.00E+00	8.96E+00 ± 5.15E+00
		12/05/91	4.70E+00 ± 2.20E+00	1.31E+01 ± 1.05E+01
	H-3	01/18/91	2.50E+05 ± 1.00E+03	2.47E+05 ± 1.82E+04
		04/01/91	2.76E+05 ± 1.00E+03	3.10E+05 ± 2.27E+04

TABLE B-6 CONTINUED

USDOE (PNL)
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Nitrate mg/l ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	PNL
		06/18/91	2.23E+05 ± 1.00E+03	2.86E+05 ± 2.10E+04
		12/05/91	2.52E+05 ± 1.00E+03	2.65E+05 ± 1.95E+04
	NO2+NO3	01/18/91	2.07E+02 ± 1.00E+01	1.22E+02 ± 0.00E+00
		04/01/91	2.52E+02 ± 1.30E+01	1.32E+02 ± 0.00E+00
		06/18/91	2.20E+02 ± 2.20E+01	1.36E+02 ± 0.00E+00
		12/05/91	1.28E+02 ± 6.00E+00	2.80E+01 ± 1.58E+01
6-50-53	Gross Alpha	06/21/91	1.84E+02 ± 4.70E+01	9.02E+00 ± 1.44E+01
		12/05/91	7.00E+01 ± 3.00E+01	3.81E+00 ± 2.99E+00
	Gross Beta	06/21/91	7.31E+03 ± 6.00E+01	2.02E+03 ± 2.01E+02
		12/05/91	6.67E+03 ± 6.00E+01	3.13E+03 ± 2.82E+02
	Cs-137	06/21/91	1.00E-01 ± 3.00E+00	-2.34E+00 ± 9.66E+00
		12/05/91	8.40E-01 ± 1.84E+00	3.29E+00 ± 9.31E+00
	Co-60	06/21/91	3.87E+02 ± 1.30E+01	4.49E+02 ± 6.04E+01
		12/05/91	3.79E+02 ± 8.00E+00	3.90E+02 ± 5.59E+01
	H-3	06/21/91	3.09E+03 ± 1.40E+02	3.42E+03 ± 4.58E+02
		12/05/91	3.89E+03 ± 1.50E+02	3.63E+03 ± 5.02E+02
	Pu-239/240	06/21/91	0.00E+00 ± 1.00E-02	-1.00E-02 ± 2.00E-02
	NO2+NO3	06/21/91	3.70E+02 ± 1.90E+01	6.65E+02 ± 0.00E+00
		12/05/91	5.53E+02 ± 3.00E+00	1.40E+02 ± 7.88E+01
	Pu-238	06/21/91	-3.00E-02 ± 4.00E-02	-2.00E-02 ± 2.00E-02
	Tc-99	06/21/91	1.39E+04 ± 1.40E+03	1.17E+04 ± 1.27E+03
6-S19-E13	H-3	03/29/91	8.13E+03 ± 1.60E+02	8.30E+03 ± 7.98E+02
		06/21/91	7.21E+03 ± 1.90E+02	7.63E+03 ± 7.49E+02
	NO2+NO3	03/29/91	4.20E+01 ± 2.00E+00	2.38E+01 ± 0.00E+00
		06/21/91	4.00E+01 ± 2.00E+00	2.47E+01 ± 0.00E+00

TABLE B-7

USDOE (PNL)
SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Battelle Pacific Northwest Laboratories for U.S. Department of Energy

January 1991 through December 1991

SITE	TEST	DATE	DOH	PNL
100N FIRESTATION	Sr-90	07/31/91	1.19E-01 ± 7.00E-03	1.31E-01 ± 1.10E-02
	Ru-106	07/31/91	3.90E-02 ± 1.20E-01	1.59E-02 ± 2.12E-01
	Cs-137	07/31/91	3.36E-01 ± 2.80E-02	3.12E-01 ± 4.19E-02
	K-40	07/31/91	1.62E+01 ± 6.00E-01	1.45E+01 ± 8.17E-01
	Co-60	07/31/91	-2.80E-03 ± 1.39E-02	7.20E-03 ± 2.44E-02
	U-234	07/31/91	4.23E-01 ± 2.06E-01	6.26E-01 ± 7.84E-02
	Pu-239/240	07/31/91	6.30E-03 ± 2.00E-03	4.88E-03 ± 9.34E-04
	Pu-238	07/31/91	1.20E-03 ± 2.40E-03	1.12E-04 ± 1.81E-04
100N-1	Sr-90	07/31/91	1.33E+00 ± 2.00E-02	1.97E+00 ± 6.27E-02
	Ru-106	07/31/91	-3.56E-02 ± 7.41E-02	-4.25E-02 ± 1.52E-01
	Cs-137	07/31/91	1.01E-01 ± 1.60E-02	1.10E-01 ± 2.21E-02
	K-40	07/31/91	1.59E+01 ± 4.00E-01	1.46E+01 ± 7.31E-01
	Co-60	07/31/91	3.01E-01 ± 2.10E-02	2.80E-01 ± 3.85E-02
	Pu-239/240	07/31/91	8.60E-04 ± 9.60E-04	7.69E-04 ± 7.74E-04
	Pu-238	07/31/91	2.00E-04 ± 2.20E-03	9.75E-05 ± 3.55E-04
E200E	Sr-90	07/31/91	2.80E-01 ± 1.00E-02	3.45E-01 ± 1.27E-02
	Ru-106	07/31/91	-8.00E-03 ± 7.02E-02	7.79E-04 ± 1.47E-01
	Cs-137	07/31/91	1.45E+00 ± 3.00E-02	1.13E+00 ± 5.34E-02
	K-40	07/31/91	1.35E+01 ± 3.00E-01	1.36E+01 ± 7.09E-01
	Co-60	07/31/91	6.62E-02 ± 1.28E-02	-2.13E-03 ± 1.89E-02
	U-234	07/31/91	6.93E-01 ± 2.17E-01	9.06E-01 ± 2.08E-01
	Pu-239/240	07/31/91	1.20E-02 ± 2.00E-03	8.95E-03 ± 1.21E-03
	Pu-238	07/31/91	1.20E-03 ± 1.90E-03	2.13E-04 ± 2.00E-04
YAKIMA B.	Sr-90	07/31/91	1.10E-01 ± 1.00E-02	1.43E-01 ± 1.21E-02

TABLE B-7 CONTINUED

USDOE (PNL)
SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
	Ru-106	07/31/91	7.02E-02 ± 7.10E-02	4.27E-02 ± 1.62E-01
	Cs-137	07/31/91	3.77E-01 ± 1.70E-02	3.62E-01 ± 3.29E-02
	K-40	07/31/91	1.58E+01 ± 4.00E-01	1.40E+01 ± 7.02E-01
	Co-60	07/31/91	-3.61E-03 ± 8.31E-03	-3.68E-03 ± 1.87E-02
	U-234	07/31/91	5.10E-01 ± 1.31E-01	7.47E-01 ± 5.73E-02
	Pu-239/240	07/31/91	7.10E-03 ± 1.90E-03	5.02E-03 ± 9.38E-04
	Pu-238	07/31/91	1.00E-04 ± 1.70E-03	1.84E-04 ± 1.93E-04
200ESE	Sr-90	07/31/91	1.06E-01 ± 6.00E-03	1.73E-01 ± 1.42E-02
	Ru-106	07/31/91	1.23E-02 ± 6.11E-02	-1.76E-01 ± 1.66E-01
	Cs-137	07/31/91	5.04E-01 ± 1.50E-02	4.08E-01 ± 3.46E-02
	K-40	07/31/91	1.52E+01 ± 3.00E-01	1.44E+01 ± 7.22E-01
	Co-60	07/31/91	6.27E-03 ± 7.20E-03	2.36E-02 ± 1.86E-02
	U-234	07/31/91	3.55E-01 ± 1.10E-01	6.54E-01 ± 9.22E-02
	Pu-239/240	07/31/91	4.00E-03 ± 2.10E-03	7.99E-03 ± 1.14E-03
	Pu-238	07/31/91	-5.00E-04 ± 3.00E-03	2.13E-04 ± 2.00E-04
SUNNYSIDE	Sr-90	08/01/91	2.40E-02 ± 4.00E-03	2.93E-02 ± 6.14E-03
	Ru-106	08/01/91	1.80E-02 ± 1.13E-01	2.11E-01 ± 2.25E-01
	Cs-137	08/01/91	8.20E-02 ± 1.96E-02	6.68E-02 ± 2.58E-02
	K-40	08/01/91	1.31E+01 ± 6.00E-01	1.36E+01 ± 8.99E-01
	Co-60	08/01/91	4.50E-03 ± 1.38E-02	-2.71E-03 ± 2.39E-02
	U-234	08/01/91	6.39E-01 ± 2.18E-01	6.32E-01 ± 7.60E-02
	Pu-239/240	08/01/91	1.40E-03 ± 1.40E-03	8.85E-04 ± 5.77E-04
	Pu-238	08/01/91	2.50E-03 ± 3.20E-03	9.83E-05 ± 2.54E-04
WYE B.	Sr-90	07/31/91	1.64E-01 ± 7.00E-03	2.31E-01 ± 1.58E-02
	Ru-106	07/31/91	3.90E-02 ± 6.60E-02	-7.23E-04 ± 1.40E-01
	K-40	07/31/91	1.64E+01 ± 3.00E-01	1.50E+01 ± 6.76E-01
	Co-60	07/31/91	-2.30E-03 ± 7.50E-03	1.01E-02 ± 1.32E-02
	U-234	07/31/91	2.86E-01 ± 1.15E-01	6.13E-01 ± 5.39E-02
	Pu-239/240	07/31/91	1.30E-02 ± 3.00E-03	1.68E-02 ± 2.55E-03
	Pu-238	07/31/91	3.00E-04 ± 2.90E-03	5.23E-04 ± 4.75E-04

TABLE B-7 CONTINUED

USDOE (PNL)
SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	PNL
MOSES LAKE	Sr-90	08/01/91	8.00E-03 ± 4.00E-03	1.37E-02 ± 4.29E-03
	Ru-106	08/01/91	4.10E-02 ± 1.20E-01	5.51E-02 ± 1.73E-01
	Cs-137	08/01/91	9.00E-03 ± 1.51E-02	-1.70E-03 ± 2.01E-02
	K-40	08/01/91	1.46E+01 ± 6.00E-01	1.49E+01 ± 7.94E-01
	Co-60	08/01/91	7.00E-03 ± 1.41E-02	3.39E-03 ± 1.73E-02
	U-234	08/01/91	1.02E+00 ± 2.30E-01	6.19E-01 ± 8.27E-02
	Pu-239/240	08/01/91	3.00E-04 ± 8.00E-04	3.36E-05 ± 1.62E-04
	Pu-238	08/01/91	-1.00E-04 ± 2.20E-03	1.10E-04 ± 2.33E-04
HANFORD TOWNSITE	Sr-90	07/31/91	5.00E-02 ± 1.00E-02	5.74E-02 ± 6.22E-03
	Ru-106	07/31/91	-3.60E-03 ± 6.85E-02	8.16E-03 ± 1.31E-01
	Cs-137	07/31/91	2.63E-01 ± 1.40E-02	2.71E-01 ± 2.80E-02
	K-40	07/31/91	1.61E+01 ± 3.00E-01	1.44E+01 ± 6.81E-01
	Co-60	07/31/91	-2.16E-03 ± 7.73E-03	-1.28E-02 ± 1.57E-02
	U-234	07/31/91	1.04E+00 ± 1.20E-01	7.36E-01 ± 8.10E-02
	Pu-239/240	07/31/91	3.60E-03 ± 2.30E-03	3.68E-03 ± 8.46E-04
	Pu-238	07/31/91	2.60E-03 ± 4.30E-03	1.60E-05 ± 9.60E-05

TABLE B-8

USDOE (PNL)
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health and Battelle Pacific Northwest Laboratories for the U.S. Department of Energy

January 1991 through December 1991

SITE	DATE	DOH	PNL
USE STATIONS			
NE CORNER	1st Qtr.	2.70E-01 ± 5.00E-02	2.39E-01 ± 2.00E-02
	2nd Qtr.	2.40E-01 ± 4.00E-02	2.91E-01 ± 2.20E-02
	3rd Qtr.	1.70E-01 ± 3.00E-02	1.92E-01 ± 2.00E-02
	4th Qtr.	2.70E-01 ± 4.00E-02	3.06E-01 ± 3.00E-02
NW CORNER	1st Qtr.	2.80E-01 ± 5.00E-02	2.56E-01 ± 2.60E-02
	2nd Qtr.	2.40E-01 ± 5.00E-02	2.68E-01 ± 1.80E-02
	3rd Qtr.	1.90E-01 ± 4.00E-02	2.33E-01 ± 2.40E-02
	4th Qtr.	2.60E-01 ± 5.00E-02	3.00E-01 ± 3.60E-02
SW CORNER	1st Qtr.	5.90E-01 ± 6.00E-02	4.46E-01 ± 2.80E-02
	2nd Qtr.	4.70E-01 ± 9.00E-02	4.77E-01 ± 2.80E-02
	3rd Qtr.	3.60E-01 ± 4.00E-02	4.09E-01 ± 2.80E-02
	4th Qtr.	4.60E-01 ± 5.00E-02	5.26E-01 ± 4.10E-02
SE CORNER	1st Qtr.	4.60E-01 ± 7.00E-02	3.52E-01 ± 1.90E-02
	2nd Qtr.	3.90E-01 ± 8.00E-02	3.95E-01 ± 3.40E-02
	3rd Qtr.	2.80E-01 ± 5.00E-02	2.99E-01 ± 6.00E-02
	4th Qtr.	3.70E-01 ± 6.00E-02	3.65E-01 ± 3.30E-02
WNP-2 STATIONS			
STATION 1	1st Qtr.	2.90E-01 ± 6.00E-02	2.48E-01 ± 1.80E-02
	2nd Qtr.	2.50E-01 ± 4.00E-02	2.79E-01 ± 2.20E-02
	3rd Qtr.	1.80E-01 ± 3.00E-02	2.05E-01 ± 2.60E-02
	4th Qtr.	2.60E-01 ± 4.00E-02	2.88E-01 ± 1.80E-02
STATION 4	1st Qtr.	2.80E-01 ± 3.00E-02	2.34E-01 ± 1.60E-02

TABLE B-8 CONTINUED

USDOE (PNL)
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

SITE	DATE	DOH	PNL
	2nd Qtr.	2.30E-01 ± 5.00E-02	2.34E-01 ± 2.00E-02
	3rd Qtr.	1.60E-01 ± 3.00E-02	1.81E-01 ± 1.70E-02
	4th Qtr.	2.10E-01 ± 4.00E-02	2.85E-01 ± 3.30E-02
STATION 8	1st Qtr.	3.10E-01 ± 3.00E-02	2.83E-01 ± 2.30E-02
	2nd Qtr.	2.60E-01 ± 3.00E-02	2.95E-01 ± 3.30E-02
	3rd Qtr.	2.20E-01 ± 2.00E-02	2.31E-01 ± 2.60E-02
	4th Qtr.	2.90E-01 ± 7.00E-02	3.40E-01 ± 4.70E-02
CONNELL	1st Qtr.	2.60E-01 ± 3.00E-02	2.32E-01 ± 3.60E-02
	2nd Qtr.	2.00E-01 ± 4.00E-02	2.40E-01 ± 2.20E-02
	3rd Qtr.	1.60E-01 ± 3.00E-02	2.40E-01 ± 4.60E-02
	4th Qtr.	2.30E-01 ± 6.00E-02	2.73E-01 ± 3.00E-02
RICHLAND	1st Qtr.	2.30E-01 ± 4.00E-02	2.60E-01 ± 2.60E-02
	2nd Qtr.	2.00E-01 ± 5.00E-02	2.50E-01 ± 1.80E-02
	3rd Qtr.	1.50E-01 ± 3.00E-02	2.27E-01 ± 4.70E-02
	4th Qtr.	2.30E-01 ± 6.00E-02	2.44E-01 ± 1.60E-02
HANFORD STATIONS			
E200E	1st Qtr.	3.10E-01 ± 5.00E-02	2.42E-01 ± 2.20E-02
	2nd Qtr.	2.30E-01 ± 7.00E-02	2.69E-01 ± 2.50E-02
	3rd Qtr.	1.90E-01 ± 4.00E-02	2.34E-01 ± 4.00E-02
	4th Qtr.	3.20E-01 ± 9.00E-02	2.86E-01 ± 2.40E-02
N200E	1st Qtr.	2.40E-01 ± 4.00E-02	2.31E-01 ± 1.80E-02
	2nd Qtr.	2.20E-01 ± 6.00E-02	2.35E-01 ± 2.30E-02
	3rd Qtr.	1.60E-01 ± 3.00E-02	2.04E-01 ± 3.30E-02
	4th Qtr.	2.50E-01 ± 1.00E-01	3.44E-01 ± 6.10E-02
200GTE	1st Qtr.	2.40E-01 ± 4.00E-02	2.05E-01 ± 1.80E-02
	2nd Qtr.	1.80E-01 ± 6.00E-02	2.32E-01 ± 2.90E-02
	3rd Qtr.	1.40E-01 ± 3.00E-02	1.81E-01 ± 2.30E-02
	4th Qtr.	2.20E-01 ± 4.00E-02	2.89E-01 ± 5.20E-02
RT 11A-9	1st Qtr.	2.80E-01 ± 5.00E-02	2.24E-01 ± 1.70E-02
	2nd Qtr.	2.10E-01 ± 5.00E-02	2.32E-01 ± 2.30E-02

TABLE B-8 CONTINUED

USDOE (PNL)
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

SITE	DATE	DOH	PNL
	3rd Qtr.	1.50E-01 ± 3.00E-02	2.09E-01 ± 2.20E-02
	4th Qtr.	2.50E-01 ± 6.00E-02	3.22E-01 ± 5.50E-02
200ESE	1st Qtr.	2.70E-01 ± 7.00E-02	2.57E-01 ± 4.50E-02
	2nd Qtr.	2.30E-01 ± 6.00E-02	2.77E-01 ± 4.00E-02
	3rd Qtr.	1.70E-01 ± 5.00E-02	1.97E-01 ± 2.10E-02
	4th Qtr.	2.50E-01 ± 4.00E-02	2.74E-01 ± 2.60E-02
SUNNYSIDE	1st Qtr.	2.50E-01 ± 3.00E-02	2.59E-01 ± 3.00E-02
	2nd Qtr.	1.90E-01 ± 6.00E-02	2.54E-01 ± 2.10E-02
	3rd Qtr.	1.40E-01 ± 3.00E-02	2.17E-01 ± 3.40E-02
	4th Qtr.	2.40E-01 ± 8.00E-02	2.60E-01 ± 4.10E-02
WYE B.	1st Qtr.	2.70E-01 ± 6.00E-02	2.75E-01 ± 2.20E-02
	2nd Qtr.	2.30E-01 ± 8.00E-02	2.69E-01 ± 2.70E-02
	3rd Qtr.	1.60E-01 ± 4.00E-02	2.16E-01 ± 2.10E-02
	4th Qtr.	2.60E-01 ± 5.00E-02	2.60E-01 ± 2.60E-02
MOSES LAKE	1st Qtr.	2.20E-01 ± 4.00E-02	2.68E-01 ± 2.50E-02
	2nd Qtr.	1.70E-01 ± 6.00E-02	2.63E-01 ± 3.60E-02
	3rd Qtr.	1.30E-01 ± 3.00E-02	1.93E-01 ± 4.00E-02
	4th Qtr.	2.00E-01 ± 5.00E-02	2.41E-01 ± 3.10E-02

TABLE B-9

TROJAN NUCLEAR PLANT
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Portland General Electric

January 1991 through December 1991

SITE	DATE	DOH	PGE
PGE-5	3rd Qtr.	1.40E-01 ± 2.00E-02	1.50E-01 ± 8.00E-02
	4th Qtr.	1.30E-01 ± 7.00E-02	1.40E-01 ± 4.00E-02
PGE-11A	1st Qtr.	2.00E-01 ± 5.00E-02	1.40E-01 ± 4.00E-02
	2nd Qtr.	1.70E-01 ± 6.00E-02	1.40E-01 ± 3.00E-02
	3rd Qtr.	1.80E-01 ± 3.00E-02	1.60E-01 ± 1.00E-01
PGE-1	1st Qtr.	1.80E-01 ± 5.00E-02	1.10E-01 ± 3.00E-02
	2nd Qtr.	1.40E-01 ± 6.00E-02	1.00E-01 ± 2.00E-02
	3rd Qtr.	1.20E-01 ± 2.00E-02	1.20E-01 ± 6.00E-02
	4th Qtr.	1.30E-01 ± 7.00E-02	1.20E-01 ± 3.00E-02

PGE-5 TLD for 1st and 2nd Quarter lost in field - no report.

PGE-11A TLD for 4th Quarter lost in field - no report.

TABLE B-10

URANIUM MILLS
SURFACE AND GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Dawn Mining Company and Western Nuclear Incorporated

January 1991 through December 1991

DAWN MINING COMPANY

SITE	TEST	DATE	DOH	DMC
GW1	Ra-226	05/21/91	4.70E-02 ± 8.00E-02	1.00E-01 ± 0.00E+00
	Total U	05/21/91	5.93E+01 ± 2.30E+00	5.92E+01 ± 0.00E+00
	TDS	05/21/91	1.76E+03 ± 9.00E+01	1.60E+03 ± 0.00E+00
	Th-230	05/21/91	-4.00E-02 ± 6.00E-02	5.00E-01 ± 0.00E+00
GW2	Ra-226	05/21/91	4.89E-01 ± 1.70E-01	5.00E-01 ± 3.00E-01
	Total U	05/21/91	8.47E+01 ± 2.90E+00	7.18E+01 ± 0.00E+00
	TDS	05/21/91	3.44E+03 ± 1.70E+02	3.05E+03 ± 0.00E+00
	Th-230	05/21/91	0.00E+00 ± 7.00E-02	4.00E-01 ± 0.00E+00
GW6	Ra-226	05/21/91	2.94E-01 ± 1.40E-01	5.00E-01 ± 3.00E-01
	Total U	05/21/91	3.70E+00 ± 4.00E-01	2.84E+00 ± 0.00E+00
	TDS	05/21/91	2.00E+02 ± 1.00E+01	2.20E+02 ± 0.00E+00
	Th-230	05/21/91	1.00E-02 ± 7.00E-02	4.00E-01 ± 0.00E+00
SW5	Ra-226	05/21/91	2.60E-02 ± 9.30E-02	1.00E-01 ± 2.00E-01
	Total U	05/21/91	6.38E-01 ± 1.68E-01	2.70E+00 ± 1.70E+00
	TDS	05/21/91	1.10E+02 ± 6.00E+00	1.29E+02 ± 0.00E+00
	Th-230	05/21/91	1.00E-02 ± 7.00E-02	1.00E-01 ± 8.00E-01
SW4	Ra-226	05/21/91	2.60E-02 ± 8.90E-02	1.00E-01 ± 2.00E-01
	Total U	05/21/91	4.60E+00 ± 3.00E-01	2.50E+00 ± 1.60E+00
	TDS	05/21/91	2.20E+02 ± 1.10E+01	2.43E+02 ± 0.00E+00
	Th-230	05/21/91	-1.00E-02 ± 7.00E-02	4.00E-01 ± 0.00E+00

TABLE B-10 CONTINUED

SURFACE AND GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

WESTERN NUCLEAR, INCORPORATED

SITE	TEST	DATE	DOH	WNI
PH	Ra-226	05/22/91	1.32E-01 ± 1.01E-01	9.70E+00 ± 8.00E-01
		09/19/91	8.60E-02 ± 1.05E-01	2.00E-01 ± 0.00E+00
	Total U	05/22/91	6.02E+01 ± 3.70E+00	4.81E+01 ± 0.00E+00
		09/19/91	5.90E+01 ± 1.30E+00	4.06E+01 ± 0.00E+00
	Th-230	05/22/91	-3.00E-02 ± 8.00E-02	4.00E-01 ± 0.00E+00
		09/19/91	1.41E-01 ± 2.24E-01	4.00E-01 ± 0.00E+00
MW2	Ra-226	05/22/91	1.97E-01 ± 1.18E-01	5.00E-01 ± 3.00E-01
		09/19/91	1.39E-01 ± 1.17E-01	5.00E-01 ± 2.00E-01
	Total U	05/22/91	3.74E+01 ± 1.40E+00	2.53E+01 ± 0.00E+00
		09/19/91	3.13E+01 ± 9.00E-01	2.30E+01 ± 0.00E+00
	Th-230	05/22/91	2.00E-02 ± 8.00E-02	4.00E-01 ± 0.00E+00
		09/19/91	-3.00E-02 ± 1.48E-01	4.00E-01 ± 0.00E+00
MW4	Ra-226	05/22/91	4.81E-01 ± 1.68E-01	4.00E-01 ± 3.00E-01
		09/19/91	6.28E-01 ± 1.97E-01	7.00E-01 ± 2.00E-01
	Total U	05/22/91	5.61E+00 ± 3.50E-01	4.20E+00 ± 0.00E+00
		09/19/91	5.61E+00 ± 3.40E-01	6.77E+00 ± 0.00E+00
	Th-230	05/22/91	3.00E-02 ± 7.00E-02	4.00E-01 ± 0.00E+00
		09/19/91	-5.00E-02 ± 7.80E-02	4.00E-01 ± 0.00E+00
MW6	Ra-226	05/22/91	7.29E-01 ± 2.00E-01	5.00E-01 ± 3.00E-01
		09/19/91	1.07E+00 ± 2.50E-01	9.00E-01 ± 2.00E-01
	Total U	05/22/91	7.52E+00 ± 3.70E-01	6.00E+00 ± 0.00E+00
		09/19/91	9.30E+00 ± 5.30E-01	5.42E+00 ± 0.00E+00
	Th-230	05/22/91	5.00E-02 ± 9.00E-02	4.00E-01 ± 0.00E+00
		09/19/91	1.23E-01 ± 9.80E-02	4.00E-01 ± 0.00E+00
L1	Ra-226	05/22/91	2.60E-02 ± 7.20E-02	3.00E-01 ± 3.00E-01
	Total U	05/22/91	2.46E-01 ± 9.80E-02	6.00E-01 ± 0.00E+00
	Th-230	05/22/91	6.00E-02 ± 8.00E-02	4.00E-01 ± 0.00E+00

TABLE B-11

US ECOLOGY
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health and US Ecology

January 1991 through December 1991

SITE	DATE	DOH	PNL
NE CORNER	1st Qtr.	2.70E-01 ± 5.00E-02	2.39E-01 ± 2.00E-02
	2nd Qtr.	2.40E-01 ± 4.00E-02	2.91E-01 ± 2.20E-02
	3rd Qtr.	1.70E-01 ± 3.00E-02	1.92E-01 ± 2.00E-02
	4th Qtr.	2.70E-01 ± 4.00E-02	3.06E-01 ± 3.00E-02
NW CORNER	1st Qtr.	2.80E-01 ± 5.00E-02	2.56E-01 ± 2.60E-02
	2nd Qtr.	2.40E-01 ± 5.00E-02	2.68E-01 ± 1.80E-02
	3rd Qtr.	1.90E-01 ± 4.00E-02	2.33E-01 ± 2.40E-02
	4th Qtr.	2.60E-01 ± 5.00E-02	3.00E-01 ± 3.60E-02
SW CORNER	1st Qtr.	5.90E-01 ± 6.00E-02	4.46E-01 ± 2.80E-02
	2nd Qtr.	4.70E-01 ± 9.00E-02	4.77E-01 ± 2.80E-02
	3rd Qtr.	3.60E-01 ± 4.00E-02	4.09E-01 ± 2.80E-02
	4th Qtr.	4.60E-01 ± 5.00E-02	5.26E-01 ± 4.10E-02
SE CORNER	1st Qtr.	4.60E-01 ± 7.00E-02	3.52E-01 ± 1.90E-02
	2nd Qtr.	3.90E-01 ± 8.00E-02	3.95E-01 ± 3.40E-02
	3rd Qtr.	2.80E-01 ± 5.00E-02	2.99E-01 ± 6.00E-02
	4th Qtr.	3.70E-01 ± 6.00E-02	3.65E-01 ± 3.30E-02

TABLE B-12

US ECOLOGY TRENCH CAP VEGETATION ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)
(Tritium pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
US Ecology

January 1991 through December 1991

SITE	DATE	AGENCY	TRITIUM	K-40*
Trench 2	07/16/91	DOH	4.09E+02 ± 1.12E+02	3.60E+01 ± 1.40E+00
		USE	2.01E+03 ± 7.58E+02	8.40E+00 ± 2.30E+00
Trench 3	07/16/91	DOH	7.10E+02 ± 1.02E+02	5.22E+01 ± 1.50E+00
		USE	1.95E+03 ± 1.24E+03	4.60E+00 ± 3.00E-01
Trench 4	07/16/91	DOH	3.62E+03 ± 6.50E+02	2.46E+01 ± 1.00E+00
		USE	9.62E+02 ± 4.58E+02	4.20E+00 ± 1.40E+00
Trench 5	07/16/91	DOH	9.34E+02 ± 1.08E+02	4.48E+01 ± 1.40E+00
		USE	2.31E+03 ± 7.92E+02	2.11E+01 ± 9.00E-01
Trench 6	07/16/91	DOH	1.97E+03 ± 1.30E+02	3.75E+01 ± 1.30E+00
		USE	1.93E+02 ± 7.00E+01	1.56E+01 ± 1.10E+00
Trench 8	07/16/91	DOH	6.51E+03 ± 2.00E+02	4.08E+01 ± 1.40E+00
		USE	8.75E+02 ± 3.80E+02	1.71E+01 ± 9.00E-01
Trench 11	07/16/91	DOH	2.30E+05 ± 1.00E+03	4.04E+01 ± 1.30E+00
		USE	4.18E+02 ± 9.60E+01	2.13E+01 ± 5.00E+00

* US Ecology results - pCi/gram - wet

TABLE B-13

US ECOLOGY
SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
US Ecology

January 1991 through December 1991

SITE	TEST	DATE	DOH	USE
NE CORNER	Total U		0.00E+00 ± 0.00E+00	1.70E-01 ± 2.00E-02
	Gross Beta	11/06/91	1.80E+01 ± 2.00E+00	2.10E+00 ± 8.00E-01
	Cs-137	11/06/91	1.65E-01 ± 1.30E-02	1.10E-01 ± 3.00E-02
NW CORNER	Total U		0.00E+00 ± 0.00E+00	1.50E-01 ± 2.00E-02
	Gross Beta	11/06/91	2.01E+01 ± 2.20E+00	2.50E+00 ± 1.20E+00
	Cs-137	11/06/91	2.43E-01 ± 1.40E-02	2.50E-01 ± 2.00E-02
MW-5	Total U		0.00E+00 ± 0.00E+00	2.00E-01 ± 2.00E-02
	Gross Beta	11/05/91	1.90E+01 ± 2.00E+00	2.30E+00 ± 1.00E+00
	Cs-137	11/05/91	2.59E-02 ± 1.38E-02	3.00E-02 ± 2.00E-02
MW-8	Total U		0.00E+00 ± 0.00E+00	1.80E-01 ± 2.00E-02
	Gross Beta	11/06/91	2.00E+01 ± 2.20E+00	1.30E+00 ± 8.00E-01
	Cs-137	11/06/91	2.59E-02 ± 1.00E-02	7.00E-02 ± 3.00E-02

TABLE B-14

US ECOLOGY
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
US Ecology

January 1991 through December 1991

SITE	TEST	DATE	DOH	USE
MW-3	Gross Alpha	01/18/91	4.00E+00 ± 4.00E+00	2.90E+00 ± 1.65E+00
	Total U	01/18/91	2.80E+00 ± 3.00E-01	3.15E+00 ± 3.89E-01
	Gross Beta	01/18/91	7.00E+00 ± 1.00E+00	5.65E+00 ± 2.62E+00
	Cs-137	01/18/91	-3.00E-01 ± 1.00E+00	-7.56E-01 ± 2.51E+00
	H-3	01/18/91	1.52E+03 ± 1.20E+02	1.60E+03 ± 2.84E+02
	Pu-239/240	01/18/91	-2.00E-03 ± 1.00E-02	-2.20E+00 ± 2.12E-03
	Pu-238	01/18/91	3.00E-01 ± 3.00E-01	-1.39E+00 ± 2.17E-03
MW-5	Gross Beta	10/29/91	8.00E+00 ± 1.00E+00	5.00E+00 ± 3.00E+00
	H-3	10/29/91	1.57E+03 ± 1.20E+02	2.19E+03 ± 5.59E+02
MW-8	Gross Alpha	01/17/91	6.00E+00 ± 2.00E+00	1.56E+00 ± 1.49E+00
	Total U	01/17/91	3.30E+00 ± 3.00E-01	3.14E+00 ± 3.99E-01
	Gross Beta	01/17/91	8.00E+00 ± 1.00E+00	5.59E+00 ± 2.67E+00
	Cs-137	01/17/91	-1.30E+00 ± 1.20E+00	-2.29E-01 ± 2.32E+00
	H-3	01/17/91	9.97E+02 ± 1.09E+02	1.10E+03 ± 2.53E+02
	Pu-239/240	01/17/91	-7.00E-02 ± 8.00E-02	1.81E+00 ± 9.27E-03
	Pu-238	01/17/91	6.00E-02 ± 2.20E-01	-1.11E+00 ± 2.40E-03
MW-10	Gross Beta	10/30/91	7.00E+00 ± 1.00E+00	4.00E+00 ± 3.00E+00
	H-3	10/30/91	9.28E+02 ± 1.05E+02	8.92E+02 ± 5.78E+02
MW-13	Gross Alpha	01/16/91	2.00E+00 ± 4.00E+00	3.04E-01 ± 8.29E-01
	Total U	01/16/91	3.50E+00 ± 3.00E-01	2.91E+00 ± 3.99E-01
	Gross Beta	01/16/91	7.00E+00 ± 1.00E+00	7.49E+00 ± 2.81E+00
		10/29/91	8.00E+00 ± 1.00E+00	6.00E+00 ± 3.00E+00
	Cs-137	01/16/91	7.00E-01 ± 1.10E+00	-1.14E+00 ± 2.09E+00

TABLE B-14 CONTINUED

US ECOLOGY
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)
(Conductivity μmhos/cm ± 10% Error)
(TDS mg/l ± 10% Error)

SITE	TEST	DATE	DOH	USE
	H-3	01/16/91	1.44E+03 ± 1.20E+02	1.50E+03 ± 2.78E+02
		10/29/91	1.97E+03 ± 1.20E+02	1.95E+03 ± 5.22E+02
	Pu-239/240	01/16/91	1.00E-02 ± 5.00E-02	-2.20E-02 ± 6.52E-03
	Pu-238	01/16/91	2.00E-01 ± 3.00E-01	-1.49E+00 ± 2.30E-03

TABLE B-15

WESTERN NUCLEAR, INCORPORATED
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the State of Washington Department of Health and Western Nuclear

January 1991 through December 1991

SITE	DATE	DOH	WNI
STA C	1st Qtr.	3.80E-01 ± 3.00E-02	2.90E-01 ± 1.00E-02
	2nd Qtr.	3.30E-01 ± 5.00E-02	3.20E-01 ± 1.00E-02
	3rd Qtr.	3.50E-01 ± 2.00E-02	3.70E-01 ± 1.00E-02
	4th Qtr.	3.60E-01 ± 6.00E-02	3.90E-01 ± 1.00E-02
STA E	1st Qtr.	3.20E-01 ± 4.00E-02	2.50E-01 ± 1.00E-02
	2nd Qtr.	3.00E-01 ± 6.00E-02	3.00E-01 ± 1.00E-02
	3rd Qtr.	3.10E-01 ± 4.00E-02	3.10E-01 ± 1.00E-02
	4th Qtr.	3.40E-01 ± 8.00E-02	3.40E-01 ± 4.00E-03
STA G	1st Qtr.	3.70E-01 ± 3.00E-02	2.70E-01 ± 1.00E-02
	2nd Qtr.	3.50E-01 ± 5.00E-02	3.10E-01 ± 4.00E-03
	3rd Qtr.	3.40E-01 ± 6.00E-02	2.90E-01 ± 1.00E-02
	4th Qtr.	3.80E-01 ± 7.00E-02	3.70E-01 ± 1.00E-02
STA R	1st Qtr.	3.30E-01 ± 4.00E-02	2.50E-01 ± 1.00E-02
	2nd Qtr.	3.10E-01 ± 7.00E-02	2.90E-01 ± 1.00E-02
	3rd Qtr.	2.90E-01 ± 4.00E-02	2.80E-01 ± 1.00E-02
	4th Qtr.	3.20E-01 ± 7.00E-02	3.40E-01 ± 4.00E-03

TABLE B-16

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
($pCi/m^3 \pm 2$ Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
STA 4	Gross Beta	01/07/91	4.10E-02 ± 2.00E-03	6.00E-02 ± 4.00E-03
		01/14/91	9.00E-02 ± 3.00E-03	1.00E-02 ± 2.00E-03
		01/21/91	1.10E-02 ± 1.00E-03	3.20E-02 ± 3.00E-03
		01/28/91	4.50E-02 ± 2.00E-03	2.50E-02 ± 3.00E-03
		02/04/91	3.40E-02 ± 2.00E-03	1.70E-02 ± 2.00E-03
		02/11/91	3.30E-02 ± 2.00E-03	1.10E-02 ± 2.00E-03
		02/19/91	1.40E-02 ± 1.00E-03	9.20E-03 ± 2.20E-03
		02/25/91	1.30E-02 ± 2.00E-03	1.50E-02 ± 2.00E-03
		03/04/91	2.20E-02 ± 2.00E-03	4.30E-03 ± 1.70E-03
		03/11/91	6.70E-03 ± 1.00E-03	1.00E-02 ± 2.00E-03
		03/18/91	1.20E-02 ± 1.00E-03	4.80E-03 ± 1.60E-03
		03/25/91	9.00E-03 ± 1.00E-03	1.70E-02 ± 2.00E-03
		04/01/91	1.90E-02 ± 2.00E-03	7.20E-03 ± 1.80E-03
		04/08/91	9.00E-03 ± 3.00E-03	9.70E-03 ± 1.80E-03
		04/15/91	1.00E-02 ± 1.00E-03	1.40E-02 ± 2.00E-03
		04/22/91	1.70E-02 ± 2.00E-03	9.50E-03 ± 1.90E-03
		04/29/91	9.00E-03 ± 1.00E-03	1.30E-02 ± 2.00E-03
		05/07/91	1.40E-02 ± 1.00E-03	6.30E-03 ± 1.80E-03
		05/13/91	7.00E-03 ± 1.00E-03	1.10E-02 ± 2.00E-03
		05/20/91	9.00E-03 ± 1.00E-03	9.20E-03 ± 1.80E-03
		05/28/91	8.00E-03 ± 1.00E-03	7.60E-03 ± 2.20E-03
		06/03/91	9.00E-03 ± 1.00E-03	1.00E-02 ± 2.00E-03
		06/10/91	7.00E-03 ± 1.00E-03	3.70E-03 ± 1.70E-03

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		06/17/91	4.00E-03 ± 1.00E-03	6.00E-03 ± 1.80E-03
		06/24/91	5.00E-03 ± 1.00E-03	1.10E-02 ± 2.00E-03
		07/01/91	9.00E-03 ± 1.00E-03	1.00E-02 ± 2.00E-03
		07/08/91	9.00E-03 ± 1.00E-03	1.30E-02 ± 2.00E-03
		07/15/91	1.20E-02 ± 1.00E-03	8.10E-03 ± 1.90E-03
		07/22/91	8.00E-03 ± 1.00E-03	1.30E-02 ± 2.00E-03
		07/29/91	1.40E-02 ± 1.00E-03	1.60E-02 ± 2.00E-03
		08/05/91	1.50E-02 ± 2.00E-03	1.80E-02 ± 2.00E-03
		08/12/91	1.20E-02 ± 1.00E-03	1.80E-02 ± 2.00E-03
		08/19/91	1.70E-02 ± 2.00E-03	1.60E-02 ± 2.00E-03
		08/26/91	1.40E-02 ± 1.00E-03	9.90E-03 ± 1.80E-03
		09/03/91	1.00E-02 ± 1.00E-03	1.40E-02 ± 2.00E-03
		09/09/91	1.40E-02 ± 2.00E-03	1.70E-02 ± 2.00E-03
		09/16/91	1.50E-02 ± 2.00E-03	1.90E-02 ± 3.00E-03
		09/23/91	1.80E-02 ± 2.00E-03	3.00E-02 ± 3.00E-03
		09/30/91	2.20E-02 ± 2.00E-03	3.10E-02 ± 3.00E-03
		10/07/91	2.40E-02 ± 2.00E-03	2.80E-02 ± 5.00E-03
		10/14/91	3.70E-02 ± 2.00E-03	1.60E-02 ± 4.00E-03
		10/21/91	1.70E-02 ± 2.00E-03	1.00E-02 ± 2.00E-03
		10/28/91	1.20E-02 ± 1.00E-03	4.00E-02 ± 3.00E-03
		11/04/91	4.90E-02 ± 2.00E-03	2.70E-02 ± 3.00E-03
		11/11/91	3.50E-02 ± 2.00E-03	8.10E-03 ± 1.90E-03
		11/18/91	1.00E-02 ± 1.00E-03	1.00E-02 ± 2.00E-03
		11/25/91	1.10E-02 ± 1.00E-03	8.40E-03 ± 1.90E-03
		12/02/91	7.00E-03 ± 1.00E-03	7.50E-03 ± 2.00E-03
		12/09/91	5.00E-03 ± 1.00E-03	1.40E-02 ± 2.00E-03
		12/16/91	2.60E-02 ± 2.00E-03	3.30E-02 ± 3.00E-03
		12/23/91	3.70E-02 ± 2.00E-03	5.10E-02 ± 4.00E-03
	I-131	01/07/91	9.00E-04 ± 9.60E-03	-1.54E-03 ± 1.34E-02
		01/14/91	1.00E-03 ± 8.00E-03	8.01E-03 ± 1.81E-02

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		01/21/91	6.40E-03 ± 7.90E-03	5.33E-03 ± 1.26E-02
		01/28/91	-1.00E-02 ± 9.00E-03	5.46E-03 ± 1.60E-02
		02/04/91	-3.00E-03 ± 8.00E-03	4.80E-03 ± 1.23E-02
		02/11/91	-3.00E-03 ± 8.00E-03	-6.06E-03 ± 8.58E-03
		02/19/91	2.00E-03 ± 7.00E-03	7.49E-03 ± 1.57E-02
		02/25/91	2.00E-03 ± 1.00E-02	-3.66E-03 ± 8.80E-03
		03/04/91	-2.00E-03 ± 8.00E-03	-5.88E-03 ± 9.77E-03
		03/11/91	-2.50E-03 ± 8.40E-03	8.76E-03 ± 1.34E-02
		03/18/91	4.60E-03 ± 8.30E-03	6.20E-03 ± 1.33E-02
		03/25/91	6.60E-03 ± 7.20E-03	1.43E-04 ± 8.80E-03
		04/01/91	6.00E-03 ± 1.00E-02	-2.58E-03 ± 8.86E-03
		04/22/91	3.90E-03 ± 9.20E-03	-4.32E-03 ± 1.23E-02
		04/29/91	3.00E-03 ± 9.00E-03	1.80E-03 ± 1.12E-02
		05/07/91	-6.97E-03 ± 8.85E-03	-1.10E-02 ± 1.03E-02
		05/13/91	5.74E-03 ± 9.73E-03	2.05E-04 ± 1.20E-02
		05/20/91	-2.93E-03 ± 8.11E-03	2.86E-04 ± 9.95E-03
		05/28/91	1.14E-03 ± 6.93E-03	-6.84E-04 ± 1.46E-02
		06/03/91	2.14E-03 ± 9.84E-03	-2.61E-03 ± 1.10E-02
		06/10/91	2.90E-03 ± 1.01E-02	-3.00E-03 ± 8.68E-03
		06/17/91	7.81E-03 ± 8.39E-03	4.35E-03 ± 1.21E-02
		06/24/91	3.29E-03 ± 7.75E-03	-1.31E-03 ± 1.03E-02
		07/01/91	5.30E-03 ± 9.30E-03	-8.97E-04 ± 1.26E-02
		07/08/91	-3.00E-03 ± 8.00E-03	7.32E-03 ± 1.41E-02
		07/15/91	-1.11E-03 ± 8.95E-03	1.50E-04 ± 8.91E-03
		07/22/91	-5.31E-03 ± 8.78E-03	-6.21E-03 ± 1.23E-02
		07/29/91	-5.00E-04 ± 8.76E-03	5.29E-03 ± 1.26E-02
		08/05/91	7.80E-03 ± 8.22E-03	1.06E-03 ± 1.35E-02
		08/12/91	-3.80E-04 ± 7.80E-03	-1.53E-03 ± 8.75E-03
		08/19/91	-4.59E-03 ± 9.12E-03	-2.22E-03 ± 9.27E-03
		08/26/91	-5.00E-04 ± 7.38E-03	-3.67E-03 ± 1.49E-02

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		09/03/91	-3.31E-03 ± 7.46E-03	0.00E+00 ± 9.11E-03
		09/09/91	2.79E-03 ± 9.40E-03	-3.58E-03 ± 1.14E-02
		09/16/91	1.00E-03 ± 8.00E-03	2.57E-03 ± 1.20E-02
		09/23/91	-1.50E-03 ± 8.40E-03	-4.23E-03 ± 9.10E-03
		09/30/91	-3.11E-03 ± 7.33E-03	-5.87E-03 ± 1.02E-02
		10/07/91	-7.40E-04 ± 7.54E-03	-1.28E-02 ± 2.76E-02
		10/14/91	-1.78E-03 ± 8.90E-03	4.46E-03 ± 1.43E-02
		10/21/91	1.00E-03 ± 1.50E-02	-4.82E-03 ± 1.02E-02
		10/28/91	5.75E-03 ± 9.16E-03	3.12E-03 ± 1.18E-02
		11/04/91	6.20E-04 ± 8.92E-03	-5.00E-03 ± 1.22E-02
		11/11/91	6.75E-03 ± 7.86E-03	-9.94E-03 ± 1.11E-02
		11/18/91	-6.47E-03 ± 7.83E-03	2.09E-03 ± 2.06E-02
		11/25/91	-3.00E-04 ± 1.20E-02	0.00E+00 ± 1.26E-02
		12/02/91	-3.97E-03 ± 8.39E-03	-2.81E-03 ± 1.30E-02
		12/09/91	-2.66E-03 ± 8.71E-03	-5.59E-03 ± 1.25E-02
		12/16/91	-1.38E-03 ± 8.09E-03	6.33E-03 ± 1.82E-02
		12/23/91	-5.90E-03 ± 1.18E-02	6.26E-03 ± 1.23E-02
STA 8	Gross Beta	01/07/91	3.20E-02 ± 2.00E-03	5.70E-02 ± 4.00E-03
		01/14/91	7.00E-02 ± 3.00E-03	8.80E-03 ± 1.80E-03
		01/21/91	8.00E-03 ± 1.00E-03	3.10E-02 ± 3.00E-03
		01/28/91	3.50E-02 ± 2.00E-03	2.70E-02 ± 3.00E-03
		02/04/91	2.70E-02 ± 2.00E-03	1.80E-02 ± 2.00E-03
		02/11/91	2.40E-02 ± 2.00E-03	1.10E-02 ± 2.00E-03
		02/19/91	1.20E-02 ± 1.00E-03	5.20E-03 ± 2.00E-03
		02/25/91	1.10E-02 ± 2.00E-03	1.70E-02 ± 2.00E-03
		03/04/91	1.70E-02 ± 2.00E-03	3.60E-03 ± 1.70E-03
		03/11/91	5.00E-03 ± 1.00E-03	7.20E-03 ± 1.70E-03
		03/18/91	8.00E-03 ± 1.00E-03	6.20E-03 ± 1.70E-03
		03/25/91	7.00E-03 ± 1.00E-03	1.80E-02 ± 2.00E-03
		04/01/91	1.70E-02 ± 2.00E-03	5.30E-03 ± 1.70E-03

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		04/08/91	7.00E-03 ± 3.00E-03	1.10E-02 ± 2.00E-03
		04/15/91	9.00E-03 ± 1.00E-03	1.40E-02 ± 2.00E-03
		04/22/91	1.60E-02 ± 2.00E-03	1.10E-02 ± 2.00E-03
		04/29/91	9.00E-03 ± 1.00E-03	1.50E-02 ± 2.00E-03
		05/07/91	1.40E-02 ± 2.00E-03	6.80E-03 ± 1.80E-03
		05/13/91	6.00E-03 ± 1.00E-03	9.10E-03 ± 2.00E-03
		05/20/91	9.00E-03 ± 1.00E-03	7.50E-03 ± 1.70E-03
		05/28/91	8.00E-03 ± 1.00E-03	9.40E-03 ± 2.30E-03
		06/03/91	8.00E-03 ± 1.00E-03	6.90E-03 ± 1.80E-03
		06/10/91	7.00E-03 ± 1.00E-03	4.80E-03 ± 1.80E-03
		06/17/91	4.00E-03 ± 1.00E-03	6.00E-03 ± 1.80E-03
		06/24/91	5.00E-03 ± 1.00E-03	1.00E-02 ± 2.00E-03
		07/01/91	8.00E-03 ± 1.00E-03	8.60E-03 ± 2.00E-03
		07/08/91	8.00E-03 ± 1.00E-03	1.30E-02 ± 2.00E-03
		07/15/91	1.00E-02 ± 1.00E-03	6.50E-03 ± 1.80E-03
		07/22/91	8.00E-03 ± 1.00E-03	1.30E-02 ± 2.00E-03
		07/29/91	1.10E-02 ± 1.00E-03	1.20E-02 ± 2.00E-03
		08/05/91	1.40E-02 ± 1.00E-03	1.30E-02 ± 2.00E-03
		08/12/91	1.30E-02 ± 1.00E-03	1.20E-02 ± 2.00E-03
		08/19/91	1.60E-02 ± 2.00E-03	1.50E-02 ± 2.00E-03
		08/26/91	1.20E-02 ± 1.00E-03	9.60E-03 ± 1.70E-03
		09/03/91	9.00E-03 ± 1.00E-03	1.70E-02 ± 3.00E-03
		09/09/91	1.40E-02 ± 2.00E-03	1.50E-02 ± 2.00E-03
		09/16/91	1.50E-02 ± 2.00E-03	1.30E-02 ± 2.00E-03
		09/23/91	1.60E-02 ± 2.00E-03	2.30E-02 ± 3.00E-03
		09/30/91	2.20E-02 ± 2.00E-03	2.10E-02 ± 3.00E-03
		10/07/91	2.20E-02 ± 2.00E-03	1.70E-02 ± 5.00E-03
		10/14/91	3.40E-02 ± 2.00E-03	1.10E-02 ± 3.00E-03
		10/21/91	1.40E-02 ± 2.00E-03	8.90E-03 ± 1.90E-03
		10/28/91	1.10E-02 ± 1.00E-03	3.70E-02 ± 3.00E-03

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		11/04/91	4.30E-02 ± 2.00E-03	2.70E-02 ± 3.00E-03
		11/11/91	3.00E-02 ± 2.00E-03	8.40E-03 ± 1.90E-03
		11/18/91	9.00E-03 ± 1.00E-03	9.00E-03 ± 2.10E-03
		11/25/91	1.00E-02 ± 1.00E-03	7.20E-03 ± 1.80E-03
		12/02/91	8.00E-03 ± 1.00E-03	5.20E-03 ± 1.80E-03
		12/09/91	4.00E-03 ± 1.00E-03	1.10E-02 ± 2.00E-03
		12/16/91	1.20E-02 ± 1.00E-03	3.40E-02 ± 3.00E-03
		12/23/91	3.60E-02 ± 2.00E-03	4.80E-02 ± 4.00E-03
	I-131	01/07/91	-1.00E-02 ± 1.00E-02	6.86E-03 ± 1.48E-02
		01/14/91	-2.00E-03 ± 8.00E-03	-8.35E-04 ± 1.33E-02
		01/21/91	-6.00E-04 ± 9.00E-03	1.02E-02 ± 1.46E-02
		01/28/91	-9.10E-03 ± 9.40E-03	-6.83E-03 ± 1.17E-02
		02/04/91	4.00E-03 ± 9.00E-03	-1.52E-03 ± 1.39E-02
		02/11/91	6.00E-03 ± 9.00E-03	-5.96E-03 ± 1.58E-02
		02/19/91	3.00E-03 ± 7.00E-03	-2.66E-03 ± 1.71E-02
		02/25/91	-3.00E-03 ± 1.00E-02	5.82E-03 ± 1.03E-02
		03/04/91	-9.00E-03 ± 8.00E-03	-8.60E-03 ± 1.27E-02
		03/11/91	-5.00E-04 ± 7.70E-02	-2.54E-03 ± 1.18E-02
		03/18/91	2.00E-03 ± 8.00E-03	-2.73E-03 ± 1.02E-02
		03/25/91	1.70E-04 ± 7.53E-03	-2.70E-03 ± 1.23E-02
		04/01/91	-2.00E-03 ± 1.00E-02	-4.68E-03 ± 1.04E-02
		04/08/91	-4.00E-03 ± 1.10E-02	3.04E-03 ± 1.17E-02
		04/15/91	-6.00E-03 ± 9.00E-03	-3.39E-04 ± 1.16E-02
		04/22/91	6.00E-03 ± 1.00E-02	1.11E-02 ± 1.33E-02
		04/29/91	-3.00E-03 ± 1.00E-02	8.05E-03 ± 1.36E-02
		05/07/91	4.60E-03 ± 9.01E-03	-3.08E-04 ± 1.13E-02
		05/13/91	-5.33E-03 ± 9.80E-03	8.07E-05 ± 4.73E-03
		05/20/91	5.50E-04 ± 9.19E-03	1.87E-04 ± 6.50E-03
		05/28/91	-1.41E-02 ± 8.00E-03	-3.30E-04 ± 9.57E-03
		06/03/91	-4.62E-03 ± 9.07E-03	5.79E-03 ± 1.19E-02

TABLE B-16 CONTINUED

WPPSS NUCLEAR PLANT #2
AIR PARTICULATE ANALYSES
(pCi/m^3 ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		06/10/91	-1.68E-03 ± 9.29E-03	-6.17E-03 ± 1.03E-02
		06/17/91	1.58E-03 ± 9.22E-03	1.55E-03 ± 1.39E-02
		06/24/91	-7.50E-04 ± 8.53E-03	-1.16E-04 ± 7.36E-03
		07/01/91	7.80E-03 ± 8.80E-03	-6.12E-03 ± 8.71E-03
		07/08/91	-5.00E-03 ± 9.00E-03	-1.12E-03 ± 9.39E-03
		07/15/91	1.22E-02 ± 7.70E-03	0.00E+00 ± 4.53E-03
		07/22/91	1.13E-03 ± 8.97E-03	-2.09E-04 ± 1.12E-02
		07/29/91	-3.40E-03 ± 1.06E-02	-6.69E-03 ± 1.38E-02
		08/05/91	2.40E-04 ± 8.63E-03	-7.37E-04 ± 9.20E-03
		08/12/91	-4.67E-03 ± 8.77E-03	1.48E-03 ± 9.00E-03
		08/19/91	5.79E-03 ± 8.00E-03	-4.07E-03 ± 1.09E-02
		08/26/91	4.14E-03 ± 7.43E-03	-7.74E-03 ± 1.25E-02
		09/03/91	3.24E-03 ± 7.58E-03	-2.74E-04 ± 1.07E-02
		09/09/91	-4.11E-03 ± 9.48E-03	3.61E-03 ± 9.35E-03
		09/16/91	-4.00E-03 ± 9.00E-03	-2.34E-04 ± 1.23E-02
		09/23/91	-4.90E-03 ± 8.40E-03	2.71E-04 ± 7.67E-04
		09/30/91	6.28E-03 ± 8.78E-03	1.10E-02 ± 2.15E-02
		10/07/91	-1.77E-03 ± 8.65E-03	9.57E-04 ± 2.91E-02
		10/14/91	-8.16E-03 ± 8.09E-03	1.12E-02 ± 1.63E-02
		10/21/91	1.24E-02 ± 1.54E-02	3.39E-03 ± 8.43E-03
		10/28/91	-6.00E-04 ± 8.90E-03	6.40E-04 ± 1.29E-02
		11/04/91	-4.10E-03 ± 7.98E-03	1.01E-02 ± 9.45E-03
		11/11/91	2.07E-03 ± 8.31E-03	-1.79E-03 ± 8.91E-03
		11/18/91	4.43E-03 ± 8.68E-03	-3.34E-03 ± 2.21E-02
		11/25/91	1.44E-03 ± 8.04E-03	0.00E+00 ± 9.32E-03
		12/02/91	-1.67E-03 ± 8.00E-03	1.58E-03 ± 9.13E-03
		12/09/91	5.11E-03 ± 8.64E-03	3.70E-04 ± 1.30E-02
		12/16/91	7.20E-04 ± 8.12E-03	-1.39E-03 ± 1.30E-02
		12/23/91	2.40E-03 ± 1.39E-02	-1.58E-03 ± 1.29E-02

TABLE B-17

WPPSS NUCLEAR PLANT #2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
DISCH.	Gross Beta	01/09/91	9.00E+00 ± 2.00E+00	1.30E+01 ± 2.00E+00
		02/12/91	9.00E+00 ± 2.00E+00	1.30E+01 ± 2.00E+00
		03/13/91	9.00E+00 ± 2.00E+00	1.50E+01 ± 2.00E+00
		04/09/91	1.03E+01 ± 1.50E+00	1.70E+01 ± 2.00E+00
		05/08/91	7.70E+00 ± 1.20E+00	9.30E+00 ± 1.40E+00
		07/09/91	2.86E+01 ± 1.90E+00	1.10E+01 ± 1.00E+00
		08/13/91	2.25E+01 ± 1.70E+00	2.80E+01 ± 5.20E-01
		09/04/91	1.06E+01 ± 1.30E+00	1.70E+01 ± 2.00E+00
		10/09/91	9.00E+00 ± 1.00E+00	1.90E+01 ± 2.00E+00
		12/03/91	7.00E+00 ± 2.00E+00	8.50E+00 ± 1.40E+00
	Cs-134	01/09/91	2.10E-01 ± 8.50E-01	1.28E+00 ± 2.03E+00
		02/12/91	-3.00E-01 ± 1.50E+00	1.46E+00 ± 1.63E+00
		03/13/91	-4.20E-01 ± 9.80E-01	1.75E+00 ± 1.83E+00
		04/09/91	-5.60E-01 ± 9.90E-01	3.61E+00 ± 3.00E+00
		05/08/91	3.00E+00 ± 1.10E+01	6.40E-01 ± 2.66E+00
		07/09/91	1.57E+00 ± 1.54E+00	-6.25E-02 ± 2.02E+00
		08/13/91	2.80E+00 ± 2.10E+00	3.04E+00 ± 2.53E+00
		09/04/91	4.20E-01 ± 1.68E+00	-3.96E+00 ± 2.71E+00
		10/09/91	7.90E-01 ± 1.32E+00	1.09E+00 ± 1.87E+00
		12/03/91	6.20E-01 ± 1.50E+00	-4.97E-01 ± 2.00E+00
	Cs-137	01/09/91	0.00E+00 ± 8.70E-01	-3.33E+00 ± 2.37E+00
		02/12/91	2.00E-01 ± 1.60E+00	6.62E-01 ± 1.68E+00
		03/13/91	4.00E-01 ± 1.10E+00	1.31E+00 ± 1.87E+00
		04/09/91	4.30E-01 ± 9.70E-01	-2.03E-01 ± 3.25E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		05/08/91	1.10E+01 ± 1.30E+01	6.87E+00 ± 3.48E+00
		07/09/91	5.38E+00 ± 2.52E+00	2.19E+00 ± 2.07E+00
		08/13/91	5.36E+00 ± 2.63E+00	5.98E+00 ± 2.62E+00
		09/04/91	1.02E+00 ± 1.86E+00	5.62E+00 ± 2.89E+00
		10/09/91	3.54E+00 ± 1.65E+00	4.79E-01 ± 1.94E+00
		12/03/91	-1.50E-01 ± 1.55E+00	-2.45E+00 ± 2.34E+00
	Zr-95	01/09/91	-6.00E-01 ± 1.00E+00	2.17E+00 ± 3.75E+00
		02/12/91	-8.00E-01 ± 1.70E+00	-1.86E-01 ± 3.05E+00
		03/13/91	-1.00E-02 ± 9.80E-01	3.09E+00 ± 3.54E+00
		04/09/91	9.00E-02 ± 9.60E-01	1.90E+00 ± 6.46E+00
		05/08/91	-7.00E+00 ± 1.30E+01	-2.02E+00 ± 5.88E+00
		07/09/91	2.50E-01 ± 1.72E+00	-2.32E-01 ± 3.75E+00
		08/13/91	1.40E-01 ± 2.00E+00	3.81E+00 ± 5.01E+00
		09/04/91	-2.10E-01 ± 1.70E+00	1.75E+00 ± 5.36E+00
		10/09/91	-7.00E-02 ± 1.44E+00	-1.36E+00 ± 3.58E+00
		12/03/91	4.80E-01 ± 1.83E+00	-4.88E-01 ± 3.76E+00
	Zn-65	01/09/91	-7.00E-01 ± 1.70E+00	-8.18E+00 ± 4.21E+00
		02/12/91	-2.10E+00 ± 3.40E+00	-4.22E+00 ± 3.33E+00
		03/13/91	-1.10E+00 ± 2.10E+00	-1.65E+00 ± 3.66E+00
		04/09/91	-5.00E-01 ± 2.00E+00	4.29E-01 ± 5.59E+00
		05/08/91	9.00E+00 ± 2.40E+01	1.73E+01 ± 4.93E+00
		07/09/91	3.45E+01 ± 6.60E+00	2.85E+01 ± 7.73E+00
		08/13/91	2.56E+01 ± 8.70E+00	2.06E+01 ± 5.07E+00
		09/04/91	1.88E+01 ± 8.10E+00	3.60E+00 ± 5.79E+00
		10/09/91	5.04E+00 ± 5.78E+00	4.99E+00 ± 3.85E+00
		12/03/91	9.50E-01 ± 3.69E+00	1.55E+00 ± 4.17E+00
	K-40	01/09/91	2.60E+01 ± 2.20E+01	3.04E-01 ± 2.66E+01
		08/13/91	3.59E+01 ± 3.02E+01	-6.32E+01 ± 5.17E+01
		10/09/91	1.62E+01 ± 2.69E+01	2.03E+00 ± 2.42E+01
	Mn-54	01/09/91	3.20E-01 ± 8.80E-01	1.04E-01 ± 1.81E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		02/12/91	-3.00E-01 ± 1.70E+00	1.20E+00 ± 1.51E+00
		03/13/91	-4.30E-01 ± 9.80E-01	-8.15E-01 ± 1.50E+00
		04/09/91	-1.40E-01 ± 9.80E-01	5.07E-01 ± 2.68E+00
		05/08/91	1.10E+01 ± 1.20E+01	2.43E+00 ± 2.56E+00
		07/09/91	4.42E+00 ± 2.46E+00	2.45E+00 ± 1.93E+00
		08/13/91	4.59E+00 ± 3.65E+00	3.32E+00 ± 2.42E+00
		09/04/91	-4.10E-01 ± 1.71E+00	1.01E-01 ± 2.32E+00
		10/09/91	2.95E+00 ± 1.72E+00	9.57E-01 ± 1.68E+00
		12/03/91	-1.00E-02 ± 1.47E+00	2.25E+00 ± 1.81E+00
	Co-60	01/09/91	-2.90E-01 ± 9.20E-01	2.76E+00 ± 2.12E+00
		02/12/91	1.30E+00 ± 1.40E+00	9.74E-01 ± 1.76E+00
		03/13/91	1.00E+00 ± 1.00E+00	9.51E-01 ± 1.79E+00
		04/09/91	-6.00E-01 ± 1.30E+00	-1.70E+00 ± 2.65E+00
		05/08/91	1.50E+01 ± 1.30E+01	2.14E+01 ± 4.06E+00
		07/09/91	3.18E+01 ± 3.60E+00	2.18E+01 ± 4.32E+00
		08/13/91	3.96E+01 ± 4.40E+00	5.76E+01 ± 5.18E+00
		09/04/91	2.14E+01 ± 4.70E+00	1.23E+01 ± 2.56E+00
		10/09/91	2.11E+01 ± 3.60E+00	1.40E+01 ± 3.24E+00
		12/03/91	3.46E+00 ± 1.67E+00	1.19E+00 ± 2.06E+00
	Ba-140	01/09/91	-3.90E+00 ± 8.60E+00	-5.63E-01 ± 6.61E+00
		02/12/91	2.00E+00 ± 1.20E+01	1.63E+00 ± 5.32E+00
		03/13/91	4.70E+00 ± 6.80E+00	-2.82E+00 ± 7.35E+00
		04/09/91	3.70E+00 ± 6.30E+00	2.18E+00 ± 1.50E+01
		05/08/91	7.10E+01 ± 7.00E+01	-2.51E+01 ± 2.64E+01
		07/09/91	1.72E+01 ± 2.69E+01	4.31E-01 ± 8.26E+00
		08/13/91	-7.90E+00 ± 3.68E+01	-8.81E+00 ± 1.10E+01
		09/04/91	-1.19E+01 ± 1.43E+01	-1.04E+00 ± 1.33E+01
		10/09/91	3.00E-01 ± 1.29E+01	-1.53E+00 ± 8.57E+00
		12/03/91	-3.80E+00 ± 2.11E+01	4.24E+00 ± 6.77E+00
	Co-58	01/09/91	1.30E-01 ± 9.50E-01	-8.54E-01 ± 1.77E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		02/12/91	2.00E-01 ± 1.40E+00	1.02E-01 ± 1.57E+00
		03/13/91	0.00E+00 ± 1.00E+00	-6.82E-01 ± 1.69E+00
		04/09/91	-2.30E-01 ± 9.00E-01	7.42E-01 ± 2.80E+00
		05/08/91	0.00E+00 ± 1.20E+01	6.02E-01 ± 2.92E+00
		07/09/91	3.13E+00 ± 1.84E+00	2.13E+00 ± 1.96E+00
		08/13/91	-1.00E-02 ± 2.10E+00	1.73E+00 ± 2.55E+00
		09/04/91	-1.00E+00 ± 1.80E+00	-4.97E-01 ± 2.62E+00
		10/09/91	5.10E-01 ± 1.48E+00	9.13E-01 ± 1.81E+00
		12/03/91	-9.40E-01 ± 1.88E+00	-6.34E-01 ± 1.83E+00
	Fe-59	01/09/91	6.00E-01 ± 2.00E+00	-3.79E-01 ± 3.84E+00
		02/12/91	1.60E+00 ± 3.20E+00	2.29E+00 ± 3.30E+00
		03/13/91	-1.60E+00 ± 2.30E+00	3.06E-01 ± 3.74E+00
		04/09/91	1.30E+00 ± 2.10E+00	-2.07E+00 ± 6.01E+00
		05/08/91	6.00E+00 ± 2.30E+01	2.49E+00 ± 7.00E+00
		07/09/91	1.66E+00 ± 4.21E+00	1.07E+00 ± 3.99E+00
		08/13/91	-8.50E-01 ± 5.13E+00	2.11E+00 ± 5.65E+00
		09/04/91	-3.00E-01 ± 3.89E+00	3.40E+00 ± 6.07E+00
		10/09/91	-5.20E-01 ± 3.26E+00	8.92E-01 ± 3.98E+00
		12/03/91	8.10E-01 ± 4.38E+00	8.75E-01 ± 3.88E+00
INTAKE	Gross Beta	01/09/91	1.00E+00 ± 1.00E+00	1.80E+00 ± 7.00E-01
		02/12/91	1.00E+00 ± 1.00E+00	5.90E-01 ± 6.70E-01
		03/13/91	1.00E+00 ± 1.00E+00	1.40E+00 ± 7.00E-01
		04/09/91	1.20E+00 ± 7.00E-01	1.90E+00 ± 7.00E-01
		05/08/91	1.00E+00 ± 7.00E-01	1.30E+00 ± 7.00E-01
		06/11/91	5.10E-01 ± 6.90E-01	1.20E+00 ± 6.00E-01
		07/09/91	1.12E+00 ± 7.40E-01	1.70E+00 ± 7.00E-01
		08/13/91	1.00E+00 ± 1.00E+00	1.50E+00 ± 3.90E-01
		09/04/91	8.09E-01 ± 6.90E-01	8.80E-01 ± 7.80E-01
		10/09/91	2.00E+00 ± 1.00E+00	2.50E+00 ± 8.00E-01
		11/08/91	6.70E-01 ± 7.20E-01	1.40E+00 ± 7.00E-01

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		12/03/91	1.00E+00 ± 1.00E+00	2.20E+00 ± 7.00E-01
	Cs-134	01/09/91	7.10E-01 ± 9.80E-01	-2.87E+00 ± 2.75E+00
		02/12/91	-1.00E+00 ± 1.00E+00	-8.39E-01 ± 1.64E+00
		03/13/91	-1.30E+00 ± 1.00E+00	1.40E+00 ± 1.73E+00
		04/09/91	-4.00E-01 ± 1.00E+00	6.01E-01 ± 2.41E+00
		05/08/91	-2.80E-01 ± 8.30E-01	-4.71E-01 ± 2.91E+00
		06/11/91	-7.39E-01 ± 9.24E-01	4.01E+00 ± 3.10E+00
		07/09/91	-4.10E-01 ± 1.32E+00	-3.67E-01 ± 2.62E+00
		08/13/91	-7.60E-02 ± 9.63E-01	-3.30E+00 ± 2.17E+00
		09/04/91	-6.47E-01 ± 9.55E-01	-2.34E+00 ± 2.66E+00
		10/09/91	7.20E-02 ± 9.81E-01	-7.54E-01 ± 1.74E+00
		11/08/91	-2.70E-01 ± 1.21E+00	8.77E-01 ± 2.34E+00
		12/03/91	-1.65E+00 ± 1.55E+00	-1.50E+00 ± 1.95E+00
	Cs-137	01/09/91	2.00E-01 ± 1.10E+00	-5.32E-01 ± 2.85E+00
		02/12/91	-1.60E-01 ± 9.70E-01	8.15E-01 ± 1.61E+00
		03/13/91	1.10E-01 ± 9.60E-01	1.55E+00 ± 1.77E+00
		04/09/91	-7.00E-01 ± 1.10E+00	5.53E+00 ± 2.40E+00
		05/08/91	8.00E-02 ± 8.80E-01	3.31E+00 ± 2.87E+00
		06/11/91	-1.26E-01 ± 9.78E-01	4.41E+00 ± 3.10E+00
		07/09/91	-7.30E-01 ± 1.49E+00	1.86E+00 ± 2.55E+00
		08/13/91	-1.30E-01 ± 1.04E+00	5.53E+00 ± 2.27E+00
		09/04/91	-2.80E-02 ± 9.86E-01	3.91E-01 ± 2.68E+00
		10/09/91	-1.14E+00 ± 1.05E+00	1.10E+00 ± 1.75E+00
		11/08/91	-2.00E-01 ± 1.28E+00	-9.07E-02 ± 2.40E+00
		12/03/91	1.09E+00 ± 1.40E+00	-3.69E-01 ± 2.42E+00
	Zr-95	01/09/91	0.00E+00 ± 1.10E+00	5.45E+00 ± 5.40E+00
		02/12/91	8.20E-01 ± 8.80E-01	9.64E-01 ± 3.01E+00
		03/13/91	-4.40E-01 ± 9.20E-01	1.88E+00 ± 3.26E+00
		04/09/91	-1.00E+00 ± 1.10E+00	-4.01E+00 ± 4.54E+00
		05/08/91	4.30E-01 ± 9.60E-01	-4.67E+00 ± 5.58E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		06/11/91	-3.20E-01 ± 9.95E-01	3.34E+00 ± 6.38E+00
		07/09/91	1.69E+00 ± 1.68E+00	-1.53E+00 ± 4.98E+00
		08/13/91	9.70E-01 ± 1.26E+00	-6.32E-02 ± 4.32E+00
		09/04/91	-7.40E-01 ± 1.02E+00	-1.10E+01 ± 5.52E+00
		10/09/91	8.40E-01 ± 1.01E+00	1.59E+00 ± 3.43E+00
		11/08/91	6.50E-01 ± 2.04E+00	5.71E+00 ± 4.92E+00
		12/03/91	1.65E+00 ± 1.62E+00	-3.93E-01 ± 3.68E+00
	Zn-65	01/09/91	5.00E-01 ± 2.10E+00	-7.97E+00 ± 6.11E+00
		02/12/91	-8.00E-01 ± 1.90E+00	5.56E-01 ± 3.56E+00
		03/13/91	3.00E-01 ± 1.80E+00	1.04E+00 ± 3.72E+00
		04/09/91	-3.00E+00 ± 2.30E+00	-1.18E+01 ± 4.98E+00
		05/08/91	-7.00E-01 ± 1.80E+00	-5.72E+00 ± 6.06E+00
		06/11/91	1.61E+00 ± 2.04E+00	3.71E+00 ± 6.35E+00
		07/09/91	-7.50E-01 ± 2.90E+00	-1.08E-01 ± 5.20E+00
		08/13/91	-7.00E-01 ± 2.13E+00	-2.40E-01 ± 4.26E+00
		09/04/91	1.85E+00 ± 1.95E+00	-2.15E+00 ± 5.59E+00
		10/09/91	8.40E-01 ± 1.91E+00	0.00E+00 ± 3.32E+00
		11/08/91	-5.50E-01 ± 3.03E+00	3.66E+00 ± 5.11E+00
		12/03/91	1.40E-01 ± 3.22E+00	-2.50E+00 ± 3.91E+00
	K-40	08/13/91	4.19E+01 ± 2.01E+01	-5.86E+02 ± 4.02E+01
		10/09/91	1.89E+01 ± 1.92E+01	-8.11E+00 ± 2.29E+01
	Mn-54	01/09/91	0.00E+00 ± 1.00E+00	2.35E+00 ± 2.47E+00
		02/12/91	-8.30E-01 ± 9.90E-01	6.47E-01 ± 1.48E+00
		03/13/91	-4.30E-01 ± 9.70E-01	2.01E-01 ± 1.48E+00
		04/09/91	3.00E-01 ± 1.00E+00	9.09E-01 ± 2.13E+00
		05/08/91	4.10E-01 ± 9.40E-01	-1.65E+00 ± 2.48E+00
		06/11/91	-2.00E-02 ± 9.89E-01	1.27E-01 ± 2.73E+00
		07/09/91	-7.20E-01 ± 1.39E+00	-1.41E+00 ± 2.22E+00
		08/13/91	-1.09E+00 ± 1.00E+00	-5.69E-01 ± 1.91E+00
		09/04/91	-1.45E-01 ± 8.94E-01	2.07E+00 ± 2.41E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		10/09/91	-5.00E-01 ± 1.01E+00	7.51E-01 ± 1.47E+00
		11/08/91	7.30E-01 ± 1.54E+00	9.61E-02 ± 2.17E+00
		12/03/91	-3.60E-01 ± 1.53E+00	1.55E-01 ± 1.76E+00
	Co-60	01/09/91	5.80E-01 ± 9.80E-01	8.69E-01 ± 2.77E+00
		02/12/91	1.40E+00 ± 1.00E+00	1.11E+00 ± 1.83E+00
		03/13/91	1.80E+00 ± 1.00E+00	2.72E+00 ± 1.65E+00
		04/09/91	-3.00E-01 ± 1.10E+00	1.62E+00 ± 2.11E+00
		05/08/91	9.00E-01 ± 8.40E-01	-3.93E-01 ± 2.69E+00
		06/11/91	1.75E+00 ± 9.70E-01	-1.47E+00 ± 2.86E+00
		07/09/91	-2.30E-01 ± 1.55E+00	6.14E-01 ± 2.28E+00
		08/13/91	1.54E+00 ± 1.00E+00	3.20E-01 ± 1.98E+00
		09/04/91	1.51E+00 ± 9.10E-01	1.23E+00 ± 2.60E+00
		10/09/91	8.75E-01 ± 9.48E-01	1.04E+00 ± 1.68E+00
		11/08/91	1.11E+00 ± 1.48E+00	2.78E-01 ± 2.13E+00
		12/03/91	1.36E+00 ± 1.43E+00	-3.06E-01 ± 1.95E+00
	Ba-140	01/09/91	-2.00E+00 ± 1.10E+01	1.32E-01 ± 8.98E+00
		02/12/91	2.00E+00 ± 6.10E+00	-1.08E-01 ± 5.06E+00
		03/13/91	1.00E+00 ± 6.50E+00	3.63E+00 ± 7.32E+00
		04/09/91	-2.60E+00 ± 7.50E+00	-4.65E+00 ± 1.02E+01
		05/08/91	1.00E+00 ± 5.10E+00	-9.10E+00 ± 1.59E+01
		06/11/91	4.79E+00 ± 8.74E+00	4.15E+00 ± 1.53E+01
		07/09/91	6.00E+00 ± 2.59E+01	1.10E+00 ± 1.15E+01
		08/13/91	3.00E-01 ± 1.86E+01	5.32E+00 ± 9.68E+00
		09/04/91	2.53E+00 ± 8.58E+00	6.00E-01 ± 1.33E+01
		10/09/91	-2.91E+00 ± 8.85E+00	-4.47E+00 ± 7.97E+00
		11/08/91	8.00E-01 ± 4.05E+01	-2.82E+00 ± 1.07E+01
		12/03/91	-6.30E+00 ± 1.89E+01	1.46E+00 ± 6.62E+00
	Co-58	01/09/91	7.00E-01 ± 1.00E+00	1.51E-01 ± 2.43E+00
		02/12/91	2.80E-01 ± 9.30E-01	-4.83E-01 ± 1.48E+00
		03/13/91	7.50E-01 ± 9.00E-01	4.29E-01 ± 1.63E+00

TABLE B-17 CONTINUED

WPPSS NUCLEAR PLANT 2
DISCHARGE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		04/09/91	1.00E-01 ± 1.00E+00	-6.38E-01 ± 2.18E+00
		05/08/91	3.10E-01 ± 9.30E-01	-5.49E-01 ± 2.75E+00
		06/11/91	-1.98E-01 ± 9.11E-01	-1.38E-01 ± 3.00E+00
		07/09/91	9.00E-02 ± 1.59E+00	-3.66E-01 ± 2.43E+00
		08/13/91	7.90E-01 ± 1.12E+00	6.46E-01 ± 2.07E+00
		09/04/91	5.35E-01 ± 8.80E-01	-1.29E+00 ± 2.64E+00
		10/09/91	-6.00E-01 ± 1.01E+00	-3.55E-01 ± 1.65E+00
		11/08/91	-3.60E-01 ± 2.09E+00	-1.04E+00 ± 2.27E+00
		12/03/91	-1.21E+00 ± 1.63E+00	-5.87E-01 ± 1.80E+00
	Fe-59	01/09/91	-7.00E-01 ± 2.50E+00	3.58E-01 ± 5.21E+00
		02/12/91	2.00E-01 ± 2.00E+00	-1.58E+00 ± 3.08E+00
		03/13/91	5.00E-01 ± 2.00E+00	2.92E+00 ± 3.35E+00
		04/09/91	-4.00E-01 ± 2.20E+00	2.74E-01 ± 4.67E+00
		05/08/91	-1.00E+00 ± 1.80E+00	4.39E+00 ± 6.54E+00
		06/11/91	-6.90E-01 ± 2.30E+00	5.12E+00 ± 6.84E+00
		07/09/91	2.09E+00 ± 3.61E+00	1.11E-01 ± 5.54E+00
		08/13/91	-1.31E+00 ± 2.72E+00	2.07E+00 ± 4.54E+00
		09/04/91	4.50E-01 ± 2.13E+00	-4.01E-01 ± 5.72E+00
		10/09/91	1.32E+00 ± 2.15E+00	2.51E-01 ± 3.53E+00
		11/08/91	2.93E+00 ± 4.87E+00	-3.83E-01 ± 5.01E+00
		12/03/91	-8.50E-01 ± 4.02E+00	-1.66E+00 ± 3.99E+00

TABLE B-18

WPPSS NUCLEAR PLANT #2
FISH ANALYSES
(pCi/gram - wet ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
S 30	Cs-134	04/29/91	-1.74E-03 ± 5.73E-03	-4.12E-03 ± 9.95E-03
	Cs-137	04/29/91	1.73E-02 ± 5.70E-03	2.13E-02 ± 1.31E-02
	Zn-65	04/29/91	-1.13E-02 ± 1.56E-02	1.19E-02 ± 2.65E-02
	K-40	04/29/91	3.45E+00 ± 2.20E-01	2.34E+00 ± 3.35E-01
	Mn-54	04/29/91	5.95E-03 ± 5.99E-03	6.53E-03 ± 1.07E-02
	Co-60	04/29/91	4.44E-03 ± 6.83E-03	7.61E-03 ± 1.23E-02
	Co-58	04/29/91	3.00E-05 ± 6.98E-03	1.54E-03 ± 1.28E-02
	Fe-59	04/29/91	3.70E-03 ± 1.65E-02	-1.23E-02 ± 3.13E-02
	Cs-134	09/23/91	-4.80E-03 ± 6.90E-03	2.21E-03 ± 1.62E-02
	Cs-137	09/23/91	8.00E-03 ± 6.60E-03	1.92E-02 ± 1.82E-02
	Zn-65	09/23/91	0.00E+00 ± 2.00E-02	0.00E+00 ± 4.69E-02
	K-40	09/23/91	3.33E+00 ± 1.90E-01	3.31E+00 ± 5.21E-01
	Mn-54	09/23/91	9.00E-04 ± 7.00E-03	3.19E-03 ± 1.63E-02
	Co-60	09/23/91	1.10E-02 ± 7.00E-03	0.00E+00 ± 1.90E-02
	Co-58	09/23/91	-3.80E-03 ± 7.00E-03	-2.77E-03 ± 2.04E-02
	Fe-59	09/23/91	1.50E-02 ± 1.60E-02	-1.54E-02 ± 4.89E-02

TABLE B-19

WPPSS NUCLEAR PLANT #2
FOOD ANALYSES
(pCi/gram -wet ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
			CABBAGE	
PASCO-FARM	Cs-134	06/18/91	-4.20E-03 ± 6.70E-03	4.03E-03 ± 4.99E-03
	Cs-137	06/18/91	4.94E-03 ± 6.35E-03	2.16E-03 ± 5.02E-03
	I-131	06/18/91	7.40E-03 + 1.27E-02	-1.31E-02 + 1.34E-02
			TOMATOES	
PASCO-FARM	Cs-134	08/27/91	-1.06E-02 + 1.17E-02	1.89E-03 + 2.79E-03
	Cs-137	08/27/91	5.20E-03 + 1.16E-02	-1.42E-04 + 2.71E-03
	I-131	08/27/91	2.50E-03 + 1.71E-02	-1.84E-03 + 1.79E-02

TABLE B-20

WPPSS NUCLEAR PLANT #2
GROUNDWATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
STATION 31	Cs-137	06/11/91	-1.00E-02 ± 1.03E+00	3.61E+00 ± 3.06E+00
	Co-60	06/11/91	3.87E-01 ± 9.94E-01	3.18E-01 ± 2.79E+00
	H-3	06/11/91	2.30E+01 ± 8.70E+01	-2.90E+01 ± 8.20E+01
STATION 32	Cs-137	06/11/91	2.00E-01 ± 1.04E+00	4.68E+00 ± 2.75E+00
	K-40	06/11/91	5.78E+01 ± 2.61E+01	8.71E+00 ± 7.13E+01
	Co-60	06/11/91	1.91E+00 ± 9.20E-01	3.48E+00 ± 2.59E+00
	H-3	06/11/91	-5.40E+01 ± 8.50E+01	7.90E+00 ± 1.10E+02
STATION 52	Cs-137	06/11/91	0.00E+00 ± 9.27E-01	-2.74E+00 ± 2.89E+00
	Co-60	06/11/91	3.92E-01 ± 9.84E-01	7.56E-01 ± 2.54E+00
	H-3	06/11/91	-6.60E+01 ± 8.50E+01	1.10E+02 ± 7.00E+01

TABLE B-21

WPPSS NUCLEAR PLANT #2
MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
STATION 9	Cs-134	12/10/91	-7.90E-01 ± 1.12E+00	9.48E-01 ± 1.99E+00
	Cs-137	03/05/91	1.40E+00 ± 1.60E+00	3.34E+00 ± 2.53E+00
		06/04/91	5.40E-01 ± 1.60E+00	1.54E+00 ± 2.17E+00
		09/10/91	1.52E+00 ± 1.12E+00	-1.80E+00 ± 2.50E+00
		12/10/91	3.60E-01 ± 1.16E+00	-6.06E-01 ± 2.31E+00
	K-40	03/05/91	1.23E+03 ± 7.00E+01	1.16E+03 ± 7.91E+01
		06/04/91	1.28E+03 ± 8.00E+01	1.29E+03 ± 7.52E+01
		09/10/91	1.32E+03 ± 5.00E+01	1.29E+03 ± 7.04E+01
		12/10/91	1.59E+00 ± 5.00E+01	1.23E+03 ± 6.59E+01
	I-131	03/05/91	6.00E-01 ± 2.30E+00	-7.70E-02 ± 1.24E-01
		06/04/91	4.30E-01 ± 2.30E+00	2.60E-03 ± 8.44E-02
		09/10/91	-1.10E+00 ± 1.77E+00	-4.50E-03 ± 7.66E-02
		12/10/91	5.70E-01 ± 1.64E+00	-1.70E-02 ± 8.86E-02
STATION 40	Cs-134	12/10/91	-2.33E+00 ± 1.13E+00	4.32E-01 ± 1.91E+00
	Cs-137	03/05/91	0.00E+00 ± 1.90E+00	2.70E+00 ± 3.47E+00
		06/04/91	-8.00E-02 ± 1.13E+00	1.36E+00 ± 2.33E+00
		09/10/91	-1.05E+00 ± 1.84E+00	-7.08E-01 ± 2.28E+00
		12/10/91	-6.80E-01 ± 1.18E+00	3.24E+00 ± 2.11E+00
	K-40	03/05/91	1.46E+03 ± 8.00E+01	1.42E+03 ± 1.05E+02
		06/04/91	1.29E+03 ± 5.00E+01	1.36E+03 ± 8.17E+01
		09/10/91	1.18E+03 ± 8.00E+01	1.47E+03 ± 8.57E+01
		12/10/91	1.59E+03 ± 5.00E+01	1.41E+03 ± 7.46E+01
	I-131	03/05/91	-8.00E-01 ± 2.70E+00	-1.30E-01 ± 1.25E-01
		06/04/91	-1.35E+00 ± 1.62E+00	-4.20E-02 ± 8.20E-02

TABLE B-21 CONTINUED

WPPSS NUCLEAR PLANT #2
MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		09/10/91	4.00E-02 ± 3.44E+00	2.90E-02 ± 8.92E-02
		12/10/91	-1.19E+00 ± 1.96E+00	5.10E-02 ± 9.86E-02
STATION 36	Cs-134	01/08/91	-3.00E-01 ± 1.20E+00	2.07E-01 ± 2.39E+00
		02/05/91	3.00E-01 ± 1.10E+00	7.57E-01 ± 2.34E+00
		03/05/91	1.00E-01 ± 1.10E+00	1.65E+00 ± 2.45E+00
		04/02/91	-1.50E-01 ± 3.60E-01	1.96E+00 ± 2.37E+00
		05/07/91	-2.10E-01 ± 9.10E-01	-1.60E-01 ± 2.42E+00
		06/04/91	-1.60E+00 ± 1.60E+00	3.43E-01 ± 2.24E+00
		07/02/91	3.90E-01 ± 1.09E+00	1.63E+00 ± 2.22E+00
		08/06/91	-1.50E+00 ± 1.10E+00	-4.14E-01 ± 2.29E+00
		09/10/91	-2.80E-01 ± 1.10E+00	1.13E+00 ± 2.43E+00
		10/15/91	-8.30E-01 ± 1.05E+00	9.09E-01 ± 2.24E+00
		11/19/91	-1.05E+00 ± 1.72E+00	-5.51E-01 ± 1.96E+00
		12/10/91	3.10E-01 ± 1.58E+00	5.29E-01 ± 2.23E+00
	Cs-137	01/08/91	1.20E+00 ± 1.40E+00	2.22E+00 ± 2.42E+00
		02/05/91	1.00E+00 ± 1.30E+00	3.85E+00 ± 2.36E+00
		03/05/91	1.10E+00 ± 1.20E+00	-4.98E-01 ± 2.42E+00
		04/02/91	-3.00E-02 ± 4.50E-01	2.26E+00 ± 2.48E+00
		05/07/91	-3.00E-01 ± 1.00E+00	9.12E-01 ± 2.47E+00
		06/04/91	-1.00E-01 ± 1.80E+00	4.25E+00 ± 2.27E+00
		07/02/91	6.40E-01 ± 1.20E+00	2.67E+00 ± 2.31E+00
		08/06/91	4.00E-01 ± 1.20E+00	2.24E+00 ± 2.44E+00
		09/10/91	2.00E-02 ± 1.26E+00	0.00E+00 ± 2.33E+00
		10/15/91	-8.60E-01 ± 1.20E+00	2.55E+00 ± 2.26E+00
		11/19/91	1.19E+00 ± 2.00E+00	2.19E-01 ± 1.93E+00
		12/10/91	1.84E+00 ± 2.03E+00	1.45E+00 ± 2.17E+00
	K-40	01/08/91	1.34E+03 ± 6.00E+01	1.34E+03 ± 7.88E+01
		02/05/91	1.29E+03 ± 5.00E+01	1.27E+03 ± 7.56E+01
		03/05/91	1.29E+03 ± 6.00E+01	1.35E+03 ± 7.94E+01
		04/02/91	1.27E+03 ± 6.00E+01	1.31E+03 ± 7.62E+01

TABLE B-21 CONTINUED

WPPSS NUCLEAR PLANT #2
MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		05/07/91	1.33E+03 ± 5.00E+01	1.27E+03 ± 8.87E+01
		06/04/91	1.35E+03 ± 8.00E+01	1.28E+03 ± 7.77E+01
		07/02/91	1.34E+03 ± 6.00E+01	1.30E+03 ± 7.69E+01
		08/06/91	1.34E+03 ± 5.00E+01	1.44E+03 ± 8.49E+01
		09/10/91	1.32E+03 ± 5.00E+01	1.29E+03 ± 8.10E+01
		10/15/91	1.36E+03 ± 5.00E+01	1.25E+03 ± 7.60E+01
		11/19/91	1.37E+03 ± 8.00E+01	1.26E+03 ± 6.78E+01
		12/10/91	1.28E+03 ± 9.00E+01	1.33E+03 ± 7.58E+01
	I-131	01/08/91	-1.90E-01 ± 4.60E-01	-5.00E-02 ± 1.15E-01
		02/05/91	3.00E-01 ± 5.10E-01	6.20E-02 ± 1.23E-01
		03/05/91	6.50E-01 ± 4.30E-01	0.00E+00 ± 1.15E-01
		04/02/91	-5.00E-02 ± 4.30E-01	-2.60E-02 ± 1.00E-01
		05/07/91	6.00E-02 ± 3.80E-01	7.10E-02 ± 1.25E-01
		06/04/91	-1.20E-01 ± 3.50E-01	-9.70E-02 ± 9.33E-02
		07/02/91	3.22E-01 ± 3.24E-01	1.30E-01 ± 1.70E-01
		08/06/91	-7.00E-02 ± 3.80E-01	8.10E-02 ± 1.42E-01
		09/10/91	1.55E-01 ± 3.66E-01	0.00E+00 ± 1.00E-01
		11/19/91	5.00E-02 ± 3.60E-01	-9.40E-02 ± 9.00E-02
		12/10/91	4.80E-02 ± 4.12E-01	1.90E-02 ± 1.11E-01
	Ba-140	01/08/91	-1.60E+00 ± 8.40E+00	3.51E-01 ± 7.48E+00
		02/05/91	-2.50E+00 ± 8.50E+00	3.74E-01 ± 7.85E+00
		03/05/91	2.90E+00 ± 7.50E+00	5.60E-01 ± 8.03E+00
		04/02/91	-1.00E-01 ± 2.10E+00	-6.62E+00 ± 7.58E+00
		05/07/91	-1.10E+00 ± 5.10E+00	4.80E+00 ± 8.45E+00
		06/04/91	6.70E+00 ± 8.30E+00	3.33E+00 ± 7.67E+00
		07/02/91	5.30E+00 ± 6.37E+00	6.16E+00 ± 8.88E+00
		08/06/91	-9.10E+00 ± 7.20E+00	5.63E+00 ± 1.13E+01
		09/10/91	-2.55E+00 ± 7.44E+00	-2.39E+00 ± 1.27E+01
		10/15/91	2.11E+00 ± 6.31E+00	-3.04E+00 ± 1.12E+01
		11/19/91	3.50E+00 ± 1.17E+01	-1.45E-01 ± 7.33E+00

TABLE B-21 CONTINUED

WPPSS NUCLEAR PLANT #2
MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		12/10/91	-1.68E+01 ± 1.17E+01	-1.46E+00 ± 5.86E+00
STATION 96	Cs-134	12/10/91	6.30E-01 ± 1.09E+00	7.42E-01 ± 2.05E+00
	Cs-137	03/05/91	1.00E+00 ± 1.20E+00	6.49E-02 ± 2.42E+00
		06/04/91	-5.40E-01 ± 1.06E+00	2.24E+00 ± 2.40E+00
		09/10/91	2.90E-01 ± 1.25E+00	4.35E-01 ± 2.25E+00
		12/10/91	4.00E-01 ± 1.19E+00	-2.24E+00 ± 2.32E+00
	K-40	03/05/91	1.47E+03 ± 5.00E+01	1.31E+03 ± 8.01E+01
		06/04/91	1.47E+03 ± 4.00E+01	1.33E+03 ± 8.35E+01
		09/10/91	1.28E+03 ± 5.00E+01	1.34E+03 ± 8.40E+01
		12/10/91	1.41E+03 ± 6.00E+01	1.40E+03 ± 6.74E+01
	I-131	03/05/91	1.30E+00 ± 1.80E+00	-2.20E-02 ± 1.20E-01
		06/04/91	-1.10E-01 ± 1.58E+00	6.70E-02 ± 9.90E-02
		09/10/91	6.50E-01 ± 1.97E+00	5.50E-03 ± 9.78E-02
		12/10/91	1.10E-01 ± 1.90E+00	2.40E-02 ± 1.07E-01
STATION 59	Cs-137	03/05/91	5.00E-01 ± 1.30E+00	2.36E+00 ± 3.12E+00
		06/04/91	-1.20E-01 ± 1.20E+00	9.03E-01 ± 2.33E+00
	K-40	03/05/91	1.38E+03 ± 6.00E+01	1.31E+03 ± 8.72E+01
		06/04/91	1.23E+03 ± 5.00E+01	1.33E+03 ± 8.11E+01
	I-131	03/05/91	1.30E+00 ± 2.10E+00	1.10E-01 ± 1.11E-01
		06/04/91	5.70E-01 ± 1.97E+00	-5.10E-02 ± 1.08E-01
STATION 62	Cs-134	12/10/91	-1.78E+00 ± 1.72E+00	3.02E+00 ± 2.38E+00
	Cs-137	03/05/91	8.00E-01 ± 1.30E+00	2.11E+00 ± 2.84E+00
		06/04/91	2.48E+00 ± 1.76E+00	-1.30E+00 ± 2.21E+00
		09/10/91	-1.33E+00 ± 1.86E+00	2.79E+00 ± 2.57E+00
		12/10/91	1.69E+00 ± 1.82E+00	2.47E+00 ± 2.45E+00
	K-40	03/05/91	1.23E+03 ± 6.00E+01	1.42E+03 ± 9.25E+01
		06/04/91	1.27E+03 ± 8.00E+01	1.26E+03 ± 7.40E+01
		09/10/91	1.26E+03 ± 7.00E+01	1.39E+03 ± 8.76E+01
		12/10/91	1.34E+03 ± 7.00E+01	1.29E+03 ± 7.74E+01
	I-131	03/05/91	-8.00E-01 ± 1.90E+00	-3.00E-02 ± 9.42E-02

TABLE B-21 CONTINUED

WPPSS NUCLEAR PLANT #2
MILK ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		06/04/91	2.29E+00 ± 2.75E+00	-5.10E-02 ± 9.70E-02
		09/10/91	-2.43E+00 ± 2.43E+00	-2.30E-02 ± 8.19E-02
		12/10/91	-7.30E-01 ± 2.50E+00	-2.30E-02 ± 8.99E-02
STATION 64	Cs-134	12/10/91	-7.40E-01 ± 1.25E+00	-5.00E-01 ± 2.15E+00
	Cs-137	09/10/91	6.70E-01 ± 1.82E+00	2.33E+00 ± 2.37E+00
		12/10/91	0.00E+00 ± 1.42E+00	5.64E-01 ± 2.07E+00
	K-40	09/10/91	1.36E+03 ± 8.00E+01	1.35E+03 ± 8.05E+01
		12/10/91	1.51E+03 ± 7.00E+01	1.30E+03 ± 8.06E+01
	I-131	09/10/91	-1.20E-01 ± 3.10E+00	5.70E-02 ± 9.10E-02
		12/10/91	2.16E+00 ± 1.89E+00	1.00E-01 ± 1.84E-01

TABLE B-22

WPPSS NUCLEAR PLANT #2
SEDIMENT ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
S 33	Ra-226		0.00E+00 ± 0.00E+00	1.26E+00 ± 4.33E-01
	Gross Beta	04/10/91	1.80E+01 ± 2.00E+00	0.00E+00 ± 0.00E+00
	Cs-134	04/10/91	-6.20E-02 ± 1.00E-02	3.76E-02 ± 1.69E-02
	Cs-137	04/10/91	1.10E-01 ± 2.00E-02	1.18E-01 ± 1.98E-02
	K-40	04/10/91	1.78E+01 ± 4.00E-01	1.69E+01 ± 6.62E-01
	Co-60	04/10/91	9.80E-03 ± 4.10E-03	9.54E-03 ± 1.56E-02
	Co-57		0.00E+00 ± 0.00E+00	5.00E-03 ± 1.33E-02
	Th-228		0.00E+00 ± 0.00E+00	7.38E-01 ± 3.54E-02
	Eu-152		0.00E+00 ± 0.00E+00	4.71E-02 ± 7.44E-02
S 34	Ra-226		0.00E+00 ± 0.00E+00	1.19E+00 ± 4.54E-01
	Gross Beta	04/10/91	1.90E+01 ± 2.00E+00	
	Cs-134	04/10/91	-8.70E-02 ± 1.10E-02	1.56E-02 ± 1.92E-02
	Cs-137	04/10/91	4.20E-01 ± 3.00E-02	3.45E-01 ± 4.02E-02
	K-40		0.00E+00 ± 0.00E+00	1.52E+01 ± 6.87E-01
	Co-60	04/10/91	3.30E-02 ± 1.40E-02	2.05E-02 ± 1.90E-02
	Co-57		0.00E+00 ± 0.00E+00	4.50E-02 ± 1.41E-02
	Th-228		0.00E+00 ± 0.00E+00	7.50E-01 ± 3.97E-02
	Eu-152		0.00E+00 ± 0.00E+00	2.79E-01 ± 1.04E-01

TABLE B-23

WPPSS NUCLEAR PLANT #2
SOIL ANALYSES
(pCi/gram - dry ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
STA 1	Cs-137	05/16/91	6.37E-01 ± 2.40E-02	5.24E-01 ± 4.90E-02
STA 21	Cs-137	05/16/91	3.55E-02 ± 1.21E-02	8.10E-03 ± 2.41E-02
STA 23	Cs-137	05/16/91	6.17E-01 ± 2.50E-02	5.90E-01 ± 4.65E-02

TABLE B-24

WPPSS NUCLEAR PLANT #2
SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results of Split Samples Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	TEST	DATE	DOH	WPPSS
STATION 29	Gross Beta	01/09/91	1.00E+00 ± 1.00E+00	2.20E+00 ± 7.00E-01
		02/12/91	1.00E+00 ± 1.00E+00	1.20E+00 ± 7.00E-01
		03/13/91	1.00E+00 ± 1.00E+00	1.10E+00 ± 7.00E-01
		04/09/91	7.99E-01 ± 7.38E-01	1.10E+00 ± 7.00E-01
		05/08/91	1.13E+00 ± 7.50E-01	1.30E+00 ± 7.00E-01
		06/11/91	9.00E-01 ± 7.00E-01	2.00E+00 ± 7.00E-01
		07/09/91	1.27E+00 ± 7.40E-01	1.70E+00 ± 7.00E-01
		08/13/91	5.40E-01 ± 6.80E-01	1.00E+00 ± 4.00E-01
		09/04/91	9.90E-01 ± 7.40E-01	7.20E-01 ± 7.60E-01
		10/09/91	5.70E-01 ± 7.00E-01	2.90E+00 ± 8.00E-01
		11/08/91	8.00E-01 ± 7.20E-01	1.20E+00 ± 7.00E-01
		12/03/91	1.00E+00 ± 1.00E+00	2.30E+00 ± 7.00E-01
INTAKE	Gross Beta	01/09/91	1.00E+00 ± 1.00E+00	1.80E+00 ± 7.00E-01
		02/12/91	1.00E+00 ± 1.00E+00	5.90E-01 ± 6.70E-01
		03/13/91	1.00E+00 ± 1.00E+00	1.40E+00 ± 7.00E-01
		04/09/91	1.20E+00 ± 7.00E-01	1.90E+00 ± 7.00E-01
		05/08/91	1.00E+00 ± 7.00E-01	1.30E+00 ± 7.00E-01
		06/11/91	5.10E-01 ± 6.90E-01	1.20E+00 ± 6.00E-01
		07/09/91	1.12E+00 ± 7.40E-01	1.70E+00 ± 7.00E-01
		08/13/91	1.00E+00 ± 1.00E+00	1.50E+00 ± 3.90E-01
		09/04/91	8.09E-01 ± 6.90E-01	8.80E-01 ± 7.80E-01
		10/09/91	2.00E+00 ± 1.00E+00	2.50E+00 ± 8.00E-01
		11/08/91	6.70E-01 ± 7.20E-01	1.40E+00 ± 7.00E-01
		12/03/91	1.00E+00 ± 1.00E+00	2.20E+00 ± 7.00E-01

TABLE B-24 CONTINUED

WPPSS NUCLEAR PLANT #2
SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
	Cs-134	01/09/91	7.10E-01 ± 9.80E-01	-2.87E+00 ± 2.75E+00
		02/12/91	-1.00E+00 ± 1.00E+00	-8.39E-01 ± 1.64E+00
		03/13/91	-1.30E+00 ± 1.00E+00	1.40E+00 ± 1.73E+00
		04/09/91	-4.00E-01 ± 1.00E+00	6.01E-01 ± 2.41E+00
		05/08/91	-2.80E-01 ± 8.30E-01	-4.71E-01 ± 2.91E+00
		06/11/91	-7.39E-01 ± 9.24E-01	4.01E+00 ± 3.10E+00
		07/09/91	-4.10E-01 ± 1.32E+00	-3.67E-01 ± 2.62E+00
		08/13/91	-7.60E-02 ± 9.63E-01	-3.30E+00 ± 2.17E+00
		09/04/91	-6.47E-01 ± 9.55E-01	-2.34E+00 ± 2.66E+00
		10/09/91	7.20E-02 ± 9.81E-01	-7.54E-01 ± 1.74E+00
		11/08/91	-2.70E-01 ± 1.21E+00	8.77E-01 ± 2.34E+00
		12/03/91	-1.65E+00 ± 1.55E+00	-1.50E+00 ± 1.95E+00
	Cs-137	01/09/91	2.00E-01 ± 1.10E+00	-5.32E-01 ± 2.85E+00
		02/12/91	-1.60E-01 ± 9.70E-01	8.15E-01 ± 1.61E+00
		03/13/91	1.10E-01 ± 9.60E-01	1.55E+00 ± 1.77E+00
		04/09/91	-7.00E-01 ± 1.10E+00	5.53E+00 ± 2.40E+00
		05/08/91	8.00E-02 ± 8.80E-01	3.31E+00 ± 2.87E+00
		06/11/91	-1.26E-01 ± 9.78E-01	4.41E+00 ± 3.10E+00
		07/09/91	-7.30E-01 ± 1.49E+00	1.86E+00 ± 2.55E+00
		08/13/91	-1.30E-01 ± 1.04E+00	5.53E+00 ± 2.27E+00
		09/04/91	-2.80E-02 ± 9.86E-01	3.91E-01 ± 2.68E+00
		10/09/91	-1.14E+00 ± 1.05E+00	1.10E+00 ± 1.75E+00
		11/08/91	-2.00E-01 ± 1.28E+00	-9.07E-02 ± 2.40E+00
		12/03/91	1.09E+00 ± 1.40E+00	-3.69E-01 ± 2.42E+00
	Zr-95	01/09/91	0.00E+00 ± 1.10E+00	5.45E+00 ± 5.40E+00
		02/12/91	8.20E-01 ± 8.80E-01	9.64E-01 ± 3.01E+00
		03/13/91	-4.40E-01 ± 9.20E-01	1.88E+00 ± 3.26E+00
		04/09/91	-1.00E+00 ± 1.10E+00	-4.01E+00 ± 4.54E+00
		05/08/91	4.30E-01 ± 9.60E-01	-4.67E+00 ± 5.58E+00
		06/11/91	-3.20E-01 ± 9.95E-01	3.34E+00 ± 6.38E+00

TABLE B-24 CONTINUED

WPPSS NUCLEAR PLANT #2
SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		07/09/91	1.69E+00 ± 1.68E+00	-1.53E+00 ± 4.98E+00
		08/13/91	9.70E-01 ± 1.26E+00	-6.32E-02 ± 4.32E+00
		09/04/91	-7.40E-01 ± 1.02E+00	-1.10E+01 ± 5.52E+00
		10/09/91	8.40E-01 ± 1.01E+00	1.59E+00 ± 3.43E+00
		11/08/91	6.50E-01 ± 2.04E+00	5.71E+00 ± 4.92E+00
		12/03/91	1.65E+00 ± 1.62E+00	-3.93E-01 ± 3.68E+00
	Zn-65	01/09/91	5.00E-01 ± 2.10E+00	-7.97E+00 ± 6.11E+00
		02/12/91	-8.00E-01 ± 1.90E+00	5.56E-01 ± 3.56E+00
		03/13/91	3.00E-01 ± 1.80E+00	1.04E+00 ± 3.72E+00
		04/09/91	-3.00E+00 ± 2.30E+00	-1.18E+01 ± 4.98E+00
		05/08/91	-7.00E-01 ± 1.80E+00	-5.72E+00 ± 6.06E+00
		06/11/91	1.61E+00 ± 2.04E+00	3.71E+00 ± 6.35E+00
		07/09/91	-7.50E-01 ± 2.90E+00	-1.08E-01 ± 5.20E+00
		08/13/91	-7.00E-01 ± 2.13E+00	-2.40E-01 ± 4.26E+00
		09/04/91	1.85E+00 ± 1.95E+00	-2.15E+00 ± 5.59E+00
		10/09/91	8.40E-01 ± 1.91E+00	0.00E+00 ± 3.32E+00
		11/08/91	-5.50E-01 ± 3.03E+00	3.66E+00 ± 5.11E+00
		12/03/91	1.40E-01 ± 3.22E+00	-2.50E+00 ± 3.91E+00
	K-40	08/13/91	4.19E+01 ± 2.01E+01	-5.86E+02 ± 4.02E+01
		10/09/91	1.89E+01 ± 1.92E+01	-8.11E+00 ± 2.29E+01
	Mn-54	01/09/91	0.00E+00 ± 1.00E+00	2.35E+00 ± 2.47E+00
		02/12/91	-8.30E-01 ± 9.90E-01	6.47E-01 ± 1.48E+00
		03/13/91	-4.30E-01 ± 9.70E-01	2.01E-01 ± 1.48E+00
		04/09/91	3.00E-01 ± 1.00E+00	9.09E-01 ± 2.13E+00
		05/08/91	4.10E-01 ± 9.40E-01	-1.65E+00 ± 2.48E+00
		06/11/91	-2.00E-02 ± 9.89E-01	1.27E-01 ± 2.73E+00
		07/09/91	-7.20E-01 ± 1.39E+00	-1.41E+00 ± 2.22E+00
		08/13/91	-1.09E+00 ± 1.00E+00	-5.69E-01 ± 1.91E+00
		09/04/91	-1.45E-01 ± 8.94E-01	2.07E+00 ± 2.41E+00
		10/09/91	-5.00E-01 ± 1.01E+00	7.51E-01 ± 1.47E+00

TABLE B-24 CONTINUED

WPPSS NUCLEAR PLANT #2
SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		11/08/91	7.30E-01 ± 1.54E+00	9.61E-02 ± 2.17E+00
		12/03/91	-3.60E-01 ± 1.53E+00	1.55E-01 ± 1.76E+00
	Co-60	01/09/91	5.80E-01 ± 9.80E-01	8.69E-01 ± 2.77E+00
		02/12/91	1.40E+00 ± 1.00E+00	1.11E+00 ± 1.83E+00
		03/13/91	1.80E+00 ± 1.00E+00	2.72E+00 ± 1.65E+00
		04/09/91	-3.00E-01 ± 1.10E+00	1.62E+00 ± 2.11E+00
		05/08/91	9.00E-01 ± 8.40E-01	-3.93E-01 ± 2.69E+00
		06/11/91	1.75E+00 ± 9.70E-01	-1.47E+00 ± 2.86E+00
		07/09/91	-2.30E-01 ± 1.55E+00	6.14E-01 ± 2.28E+00
		08/13/91	1.54E+00 ± 1.00E+00	3.20E-01 ± 1.98E+00
		09/04/91	1.51E+00 ± 9.10E-01	1.23E+00 ± 2.60E+00
		10/09/91	8.75E-01 ± 9.48E-01	1.04E+00 ± 1.68E+00
		11/08/91	1.11E+00 ± 1.48E+00	2.78E-01 ± 2.13E+00
		12/03/91	1.36E+00 ± 1.43E+00	-3.06E-01 ± 1.95E+00
	Ba-140	01/09/91	-2.00E+00 ± 1.10E+01	1.32E-01 ± 8.98E+00
		02/12/91	2.00E+00 ± 6.10E+00	-1.08E-01 ± 5.06E+00
		03/13/91	1.00E+00 ± 6.50E+00	3.63E+00 ± 7.32E+00
		04/09/91	-2.60E+00 ± 7.50E+00	-4.65E+00 ± 1.02E+01
		05/08/91	1.00E+00 ± 5.10E+00	-9.10E+00 ± 1.59E+01
		06/11/91	4.79E+00 ± 8.74E+00	4.15E+00 ± 1.53E+01
		07/09/91	6.00E+00 ± 2.59E+01	1.10E+00 ± 1.15E+01
		08/13/91	3.00E-01 ± 1.86E+01	5.32E+00 ± 9.68E+00
		09/04/91	2.53E+00 ± 8.58E+00	6.00E-01 ± 1.33E+01
		10/09/91	-2.91E+00 ± 8.85E+00	-4.47E+00 ± 7.97E+00
		11/08/91	8.00E-01 ± 4.05E+01	-2.82E+00 ± 1.07E+01
		12/03/91	-6.30E+00 ± 1.89E+01	1.46E+00 ± 6.62E+00
	Co-58	01/09/91	7.00E-01 ± 1.00E+00	1.51E-01 ± 2.43E+00
		02/12/91	2.80E-01 ± 9.30E-01	-4.83E-01 ± 1.48E+00
		03/13/91	7.50E-01 ± 9.00E-01	4.29E-01 ± 1.63E+00
		04/09/91	1.00E-01 ± 1.00E+00	-6.38E-01 ± 2.18E+00

TABLE B-24 CONTINUED

WPPSS NUCLEAR PLANT #2
SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

SITE	TEST	DATE	DOH	WPPSS
		05/08/91	3.10E-01 ± 9.30E-01	-5.49E-01 ± 2.75E+00
		06/11/91	-1.98E-01 ± 9.11E-01	-1.38E-01 ± 3.00E+00
		07/09/91	9.00E-02 ± 1.59E+00	-3.66E-01 ± 2.43E+00
		08/13/91	7.90E-01 ± 1.12E+00	6.46E-01 ± 2.07E+00
		09/04/91	5.35E-01 ± 8.80E-01	-1.29E+00 ± 2.64E+00
		10/09/91	-6.00E-01 ± 1.01E+00	-3.55E-01 ± 1.65E+00
		11/08/91	-3.60E-01 ± 2.09E+00	-1.04E+00 ± 2.27E+00
		12/03/91	-1.21E+00 ± 1.63E+00	-5.87E-01 ± 1.80E+00
	Fe-59	01/09/91	-7.00E-01 ± 2.50E+00	3.58E-01 ± 5.21E+00
		02/12/91	2.00E-01 ± 2.00E+00	-1.58E+00 ± 3.08E+00
		03/13/91	5.00E-01 ± 2.00E+00	2.92E+00 ± 3.35E+00
		04/09/91	-4.00E-01 ± 2.20E+00	2.74E-01 ± 4.67E+00
		05/08/91	-1.00E+00 ± 1.80E+00	4.39E+00 ± 6.54E+00
		06/11/91	-6.90E-01 ± 2.30E+00	5.12E+00 ± 6.84E+00
		07/09/91	2.09E+00 ± 3.61E+00	1.11E-01 ± 5.54E+00
		08/13/91	-1.31E+00 ± 2.72E+00	2.07E+00 ± 4.54E+00
		09/04/91	4.50E-01 ± 2.13E+00	-4.01E-01 ± 5.72E+00
		10/09/91	1.32E+00 ± 2.15E+00	2.51E-01 ± 3.53E+00
		11/08/91	2.93E+00 ± 4.87E+00	-3.83E-01 ± 5.01E+00
		12/03/91	-8.50E-01 ± 4.02E+00	-1.66E+00 ± 3.99E+00

TABLE B-25

WPPSS NUCLEAR PLANT #2
AMBIENT GAMMA RADIATION
(mrem/day ± 2 Sigma Counting Error)

Results of Parallel Thermoluminescent Dosimeters Analyzed by the
State of Washington Department of Health and
Washington Public Power Supply System

January 1991 through December 1991

SITE	DATE	DOH	WPPSS
STA 1	1st Qtr.	2.90E-01 ± 6.00E-02	2.60E-01 ± 1.00E-02
	2nd Qtr	2.50E-01 ± 4.00E-02	2.50E-01 ± 0.00E+00
	3rd Qtr	1.80E-01 ± 3.00E-02	2.70E-01 ± 2.00E-02
	4th Qtr	2.60E-01 ± 4.00E-02	2.50E-01 ± 1.00E-02
STA 4	1st Qtr	2.80E-01 ± 3.00E-02	2.40E-01 ± 0.00E+00
	2nd Qtr	2.30E-01 ± 5.00E-02	2.30E-01 ± 0.00Ek_00
	3rd Qtr	1.60E-01 ± 3.00E-02	2.40E-01 ± 1.00E-02
	4th Qtr	2..10E-01 ± 4.00E-02	2.40E-01 ± 1.00E-02
STA 8	1st Qtr	3.10E-01 ± 3.00E-02	2.80E-01 ± 1.00E-02
	2nd Qtr	2.60E-01 ± 3.00E-02	2.70E-01 ± 1.00E-02
	3rd Qtr	2.20E-01 ± 2.00E-02	2.90E-01 ±1.00E-02
	4th Qtr	2.90E-01 ± 7.00E-02	2.80E-01 ± 1.00E-02
RINGOLD	1st Qtr	2.60E-01 ± 2.00E-02	2.50E-01 ± 1.00E-02
	2nd Qtr	2.10E-01 ± 6.00E-02	2.40E-01 ± 1.00E-02
	3rd Qtr	1.80E-01 ± 4.00E-02	2.70E-01 ± 1.00E-02
	4th Qtr	2.50E-01 ± 5.00E-02	2.50E-01 ± 1.00e-02
STA 21	1st Qtr	2.70E-01 ± 6.00E-02	2.40E-01 ± 2.00E-02
	2nd Qtr	2.00E-01 ± 4.00E-02	2.30E-01 ± 1.00E-02
	3rd Qtr	1.50E-01 ± 3.00e-02	2.40E-01 ± 1.00E-02
	4th Qtr	2.40E-01 ± 5.00E-02	2.40E-01 ± 1.00E-02
STA 23	1st Qtr	2.70E-01 ± 5.00E-02	2.50E-01 ± 0.00E+00
	2nd Qtr	2.40E-01 ± 5.00E-02	2.40E-01 ± 1.00E-02
	3rd Qtr	1.70E-01 ± 3.00E-02	2.60E-01 ± 1.00E-02
	4th Qtr	2.40E-01 ± 4.00E-02	2.50E-01 ± 1.00E-02

APPENDIX C

U.S. ENVIRONMENTAL PROTECTION AGENCY

DATA TABLES

TABLE C-1

OLYMPIA AND SPOKANE, WASHINGTON
EPA GROSS BETA CONCENTRATIONS IN AIRBORNE PARTICULATES
(pCi/m3 ± 2 Sigma Counting Error)

Results from the U.S. Environmental Protection Agency
Air Surveillance Network Published in
Environmental Radiation Data Reports

January 1991 through December 1991

	OLYMPIA			SPOKANE		
DATE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
JANUARY	1.00E-02	0.00E+00	0.00E+00	7.00E-02	0.00E+00	2.00E-02
FEBRUARY	1.00E-02	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02
MARCH	1.00E-02	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02
APRIL	2.00E-02	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02
MAY	1.00E-02	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02
JUNE	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00
JULY	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02
AUGUST	1.00E-02	0.00E+00	0.00E+00	2.00E-02	0.00E+00	1.00E-02
SEPTEMBER	1.00E-02	0.00E+00	0.00E+00	2.00E-02	1.00E-02	1.00E-02
OCTOBER	1.00E-02	0.00E+00	1.00E-02	2.00E-02	1.00E-02	2.00E-02
NOVEMBER	1.00E-02	0.00E+00	0.00E+00	3.00E-02	0.00E+00	1.00E-02
DECEMBER	2.00E-02	0.00E+00	0.00E+00	4.00E-02	0.00E+00	1.00E-02

TABLE C-2

SEATTLE AND RICHLAND, WASHINGTON
EPA TRITIUM CONCENTRATION IN DRINKING WATER
(pCi/l ± 2 Sigma Counting Error)

Results from the U.S. Environmental Protection Agency
Surveillance Network Published in
Environmental Radiation Data Reports

January 1991 through December 1991

DATE	SEATTLE	RICHLAND
1st Qtr	1.00E+02 ± 2.00E+02	2.00E+02 ± 2.00E+02
2nd Qtr	1.00E+02 ± 2.00E+-2	2.00E+02 ± 2.00E+02
3rd Qtr	2.0E+02 ± 2.00E+02	2.00E+02 ± 2.00E+02
4th Qtr	1.00E+02 ± 2.00E+02	2.00E+02 ± 2.00E+02
07/02/90	1.00E+02 ± 2.00E+02	
09/11/90		3.00E+02 ± 2.00E+02
10/05/90	2.00E+02 ± 2.00E+02	
10/09/90		2.00E+02 ± 2.00E+02
12/28/90	1.00E+02 ± 2.00E+02	

TABLE C-3

NORTHPORT AND RICHLAND, WASHINGTON
EPA SURFACE WATER ANALYSES
(pCi/l ± 2 Sigma Counting Error)

Results from the U.S. Environmental Protection Agency
Surveillance Network Published in
Environmental Radiation Data Reports

January 1991 through December 1991

LOCATION	DATE	TRITIUM
NORTHPORT		
(Columbia River)	1st Qtr	2.00E+02 ± 2.00E+02
	2nd Qtr	1.00E+02 ± 2.00E+02
	3rd Qtr	3.00E+02 ± 2.00E+02
	4th Qtr	2.00E+02 ± 2.00E+02
RICHLAND		
(Columbia River)	1st Qtr	2.00E+02 ± 2.00E+02
	2nd Qtr	1.00E+02 ± 2.00E+02
	3rd Qtr	3.00E02 ± 2.00E+02
	4th Qtr	2.00E+02 ± 2.00E+02

APPENDIX D

1991 SAMPLING SCHEDULE

APPENDIX D
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
NORTHWEST					
Seattle	Boeing Field	TLD	King DES	Q	Ambient Gamma
Skagit River	Concrete	Surface Water	WDOE	M	Beta, H3
	Marblemount	Surface Water	WDOE	M	Beta, H3
Skagit County	Darigold, Seattle	Milk	Dept. of Ag.	M	Gamma
Cedar River	Landsberg	Surface Water	City of Seattle	M	Beta, H3
Bangor-Hood Canal	Bangor Subase	TLD	Kitsap DEM	Q	Ambient Gamma
	Delta Pier	Seawater	DOH	A	Beta, Gamma
	Delta Pier	Sediment	DOH	A	Beta, Gamma
	Delta Pier	Shellfish	DOH	A	Beta, Gamma
Bremerton	Bremerton Fire Dept.	TLD	Kitsap DEM	Q	Ambient Gamma
	PSNS - Station 7	Sediment	DOH	A	Beta, Gamma
	PSNS - Station 41	Sediment	DOH	A	Beta, Gamma
SOUTHWEST					
Olympia	Olympia Residence	TLD	Private Citizen	Q	Ambient Gamma
	Station 1	TLD	DOH	Q	Ambient Gamma
	Station 1	Air	DOH	W	Beta, Gamma
	DOH Office	Air - ERAMS	DOH	SW	Beta, Gamma
	DOH Office	Rain - ERAMS	DOH	SW	Beta, Gamma, H3
Puyallup River	Meridian St. Bridge	Surface Water	WDOE	M	Beta, H3
Elma	PUD Substation	TLD	Grays Harbor DES	Q	Ambient Gamma
Pack Forest	Mashel River - Up	Surface Water	DOH	A	H3
	Mashel River - Down	Surface Water	DOH	A	H3
	Ditch 200ft Uphill	Ground Water	DOH	A	H3
	Lt Branch Of Spring	Ground Water	DOH	A	H3
	Rt Branch Of Spring	Ground Water	DOH	A	H3
Chehalis	Sewage Plant	TLD	DOH	Q	Ambient Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
Castle Rock	Sewage Plant	TLD	DOH	Q	Ambient Gamma
Kelso	Kelso Residence	TLD	DOH	Q	Ambient Gamma
Longview	Electrical Substation	TLD	DOH	Q	Ambient Gamma
	Near Rainier OR	Surface Water	DOH	SA	Beta, H3
Cathlamet	DOT Yard	TLD	DOH	Q	Ambient Gamma
Kalama	Sewage Plant	TLD	DOH	Q	Ambient Gamma
Woodland	Electrical Substation	TLD	DOH	Q	Ambient Gamma
	Woodland Bottoms	Milk	Cowlitz Hlth Dist	M	Gamma
Vancouver	Sewer District 1	TLD	DOH	Q	Ambient Gamma
Trojan	Met. Tower	TLD	DOH	Q	Ambient Gamma
	Nearest Residence	TLD	DOH	Q	Ambient Gamma
	Discharge Zone	Surface Water	DOH	A	Beta,Gamma,H3
Rainier, OR	Water Treatment Plant	TLD	DOH	Q	Ambient Gamma
NORTHEAST					
Spokane	Spokane Residence	TLD	DOH, Spokane	Q	Ambient Gamma
	Public Health Center	Air - ERAMS	County Hlth Dist	SW	Beta, Gamma
	Public Health Center	Rain - ERAMS	County Hlth Dist	SW	Beta, Gamma, H3
	Darigold, Spokane	Milk	Dept. of Ag.	M	Gamma
Western Nuclear	Station C	TLD	DOH	Q	Ambient Gamma
	Station E	TLD	DOH	Q	Ambient Gamma
	Station G	TLD	DOH	Q	Ambient Gamma
	Station R	TLD	DOH	Q	Ambient Gamma
	Station L-1	Surface Water	DOH	A	U,Ra226,Th230(diss.)
	Station L-1	SW Filter	DOH	A	U,Ra226,Th230(susp.)
	Station PH Seep	Ground Water	DOH	SA	U,Ra226,Th230
Western Nuclear	Station MW-2	Ground Water	DOH	SA	U,Ra226,Th230
	Station MW-4	Ground Water	DOH	SA	U,Ra226,Th230
	Station MW-6	Ground Water	DOH	SA	U,Ra226,Th230

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Station C	Soil	DOH	A	U,Ra226
	Station S-2	Vegetation	DOH	A	Ra226
Dawn Mining Co.	Station 2-1	TLD	DOH	Q	Ambient Gamma
	Station 2-3	TLD	DOH	Q	Ambient Gamma
	Station 2-4	TLD	DOH	Q	Ambient Gamma
	Station 2-B(A)	TLD	DOH	Q	Ambient Gamma
	Station SW-1	Surface Water	DOH	SA	U,Ra226,Th230(diss.)
	Station SW-1	SW Filter	DOH	SA	U,Ra226,Th230(susp.)
	Station SW-3	Surface Water	DOH	SA	U,Ra226,Th230(diss.)
	Station SW-3	SW Filter	DOH	SA	U,Ra226,Th230(susp.)
	Station GW-1	Ground Water	DOH	SA	U,Ra226,Th230
	Station GW-2	Ground Water	DOH	SA	U,Ra226,Th230
	Station GW-6	Ground Water	DOH	SA	U,Ra226,Th230
	Station SW-2D	Ground Water	DOH	SA	U,Ra226,Th230
	Station 2-3	Soil	DOH	A	U,Ra226
	Station SW-3	Sediment	DOH	A	U,Ra226,Th230
	Station SW-4	Surface Water	DOH	SA	U,Ra226,Th230(diss.)
	Station SW-4	SW Filter	DOH	SA	U,Ra226,Th230(susp.)
	Station SW-5	Surface Water	DOH	SA	U,Ra226,Th230(diss.)
	Station SW-5	SW Filter	DOH	SA	U,Ra226,Th230(susp.)
	Station SW-4	Sediment	DOH	A	U,Ra226,Th230
Joy Mining Co.	Station 1A	TLD	DOH	Q	Ambient Gamma
	Station 2	TLD	DOH	Q	Ambient Gamma
	Station 2	Surface Water	DOH	SA	U,Ra226(diss.)
	Station 2	SW Filter	DOH	SA	U,Ra226(susp.)
	Campground	Ground Water	DOH	SA	U,Ra226
	Station T-10	Soil	DOH	A	U,Ra226
	Station T-10	Vegetation	DOH	A	Ra226
	Station 2	Sediment	DOH	A	U,Ra226
ITI	Station 1	TLD	DOH	Q	Ambient Gamma
	Station 2	TLD	DOH	Q	Ambient Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Station 3	TLD	DOH	Q	Ambient Gamma
	Station 4	TLD	DOH	Q	Ambient Gamma
ITI	Moses Lake Sta. 5	TLD	DOH	Q	Ambient Gamma
	Upstream	Surface Water	DOH	A	U, Ra226
	Downstream	Surface Water	DOH	A	U, Ra226
	Moses Lake Sta. 5	Soil	DOH	A	U, Ra226
	Upstream	Soil	DOH	A	U, Ra226
	Downstream	Soil	DOH	A	U, Ra226
	Upstream	Sediment	DOH	A	U, Ra226
	Downstream	Sediment	DOH	A	U, Ra226
	Dump A	Sludge	DOH	A	U, Ra226
	Dump B	Sludge	DOH	A	U, Ra226
	Dump C	Sludge	DOH	A	U, Ra226
SOUTHEAST					
Yakima River	Parker	Surface Water	WDOE	M	Beta,H3
Allied Consulting	Station 1	TLD	DOH	Q	Ambient Gamma
(Yakima)	Station 2	TLD	DOH	Q	Ambient Gamma
	Yakima	TLD	DOH	Q	Ambient Gamma
	Well #1	Ground Water	DOH	A	Gamma
	Well #2	Ground Water	DOH	A	Gamma
	Side Drive	Soil	DOH	A	Gamma
	Walk Gate	Soil	DOH	A	Gamma
	Front Drive	Soil	DOH	A	Gamma
	Septic System	Sediment	DOH	A	Gamma
Allied Consulting	NW Corner	TLD	DOH	Q	Ambient Gamma
(Richland)	SE Corner	TLD	DOH	Q	Ambient Gamma
US Ecology	NE Corner	TLD	DOH	Q	Ambient Gamma
	NW Corner	TLD	DOH	Q	Ambient Gamma
	SW Corner	TLD	DOH	Q	Ambient Gamma
	SE Corner	TLD	DOH	Q	Ambient Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	NE Corner	Soil	DOH	A	Beta, Gamma
	NW Corner	Soil	DOH	A	Beta, Gamma
US Ecology	SW Corner	Soil	DOH	A	Beta, Gamma
	SE Corner	Soil	DOH	A	Beta, Gamma
	NE Corner	Vegetation	DOH	A	Beta, Gamma
	NW Corner	Vegetation	DOH	A	Beta, Gamma
	SW Corner	Vegetation	DOH	A	Beta, Gamma
	SE Corner	Vegetation	DOH	A	Beta, Gamma
	4 Selected Wells	Ground Water	DOH	A	Alpha,Beta,Gamma,H3
WNP-2	Station 1	TLD	DOH	Q	Ambient Gamma
	Station 21	TLD	DOH	Q	Ambient Gamma
	Station 23	TLD	DOH	Q	Ambient Gamma
	Station 4	TLD	DOH	Q	Ambient Gamma
	Richland	TLD	DOH	Q	Ambient Gamma
	Kennewick	TLD	DOH	Q	Ambient Gamma
	East Pasco	TLD	DOH	Q	Ambient Gamma
	West Pasco	TLD	DOH	Q	Ambient Gamma
	Station 8	TLD	DOH	Q	Ambient Gamma
	Ringold	TLD	DOH	Q	Ambient Gamma
	Connell	TLD	DOH	Q	Ambient Gamma
	Station 4	Air	DOH	W	Beta, Gamma, I131
	Station 8	Air	DOH	W	Beta, Gamma, I131
	Station 26	Surface Water	WNP-2	M	Beta, Gamma, H3
	Station 27	Discharge Water	WNP-2	M	Beta, Gamma, H3
	Rad. Waste Tank	Discharge Water	WNP-2	A	Beta, Gamma, H3
	Station 29	Surface Water	WNP-2	M	Beta, Gamma, H3
	Station 31	Ground Water	WNP-2	A	Gamma, H3
	Station 32	Ground Water	WNP-2	A	Gamma, H3
	Station 52	Ground Water	WNP-2	A	Gamma, H3
	Station 1	Soil	WNP-2	A	Beta, Gamma
	Station 21	Soil	WNP-2	A	Beta, Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Station 23	Soil	WNP-2	A	Beta, Gamma
	Station 37	Food	WNP-2	SA	Gamma
WNP-2	Station 36	Milk	WNP-2	M	Gamma, I131
	Station 59	Milk	WNP-2	Q	Gamma, I131
	Station 40	Milk	WNP-2	Q	Gamma, I131
	Station 62	Milk	WNP-2	Q	Gamma, I131
	Station 63	Milk	WNP-2	Q	Gamma, I131
	Station 9	Milk	WNP-2	Q	Gamma, I131
	Station 96	Milk	WNP-2	Q	Gamma, I131
	Columbia River (30)	Fish	WNP-2	SA	Gamma
	Station 33	Sediment	WNP-2	A	Beta, Gamma
	Station 34	Sediment	WNP-2	A	Beta, Gamma
Hanford	Wye Barricade	TLD	DOH	Q	Ambient Gamma
	200 ESE	TLD	DOH	Q	Ambient Gamma
	E 200 E	TLD	DOH	Q	Ambient Gamma
	SW BC Cribs	TLD	DOH	Q	Ambient Gamma
	S 200 E	TLD	DOH	Q	Ambient Gamma
	200 GTE	TLD	DOH	Q	Ambient Gamma
	N 200 E	TLD	DOH	Q	Ambient Gamma
	RT 11A Mile 9	TLD	DOH	Q	Ambient Gamma
	Army Loop Camp	TLD	DOH	Q	Ambient Gamma
	Yakima Barricade	TLD	DOH	Q	Ambient Gamma
	Sunnyside	TLD	DOH	Q	Ambient Gamma
	200GTE	TLD	DOH	Q	Ambient Gamma
	100N-1	TLD	DOH	Q	Ambient Gamma
	Hanford Townsite	TLD	DOH	Q	Ambient Gamma
	Moses Lake	TLD	DOH	Q	Ambient Gamma
	Wye Barricade	Air	DOH	W	Beta, Gamma
	Yakima Barricade	Air	DOH	W	Beta, Gamma
	200 GTE	Air	DOH	W	Beta, Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Hanford Townsite	Air	DOH	W	Beta, Gamma
	Priest Rapids Dam	Surface Water	Battelle	M	Alpha,Beta,Gamma,H3
Hanford	Hanford Townsite	Surface Water	DOH	A	Alpha,Beta,Gamma,H3
	Port of Benton	Surface Water	DOH	A	Alpha,Beta,Gamma,H3
	N-Spring Seep Well 3	Ground Water	DOH	A	Alpha,Beta,Gamma,H3
	N-Spring Mon. Well	Ground Water	DOH	A	Alpha,Beta,Gamma,H3
	Well 6-17-5	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-9-E2	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-2-3	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well R6-49-100C	Ground Water	Battelle/DOH	SA	Alpha,Beta,Gamma,H3
	Well 6-37-82A	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-32-77	Ground Water	Battelle/DOH	A	Alpha,Beta,Gamma,H3
	Well 6-32-62	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-35-70	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-38-65	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-31-31	Ground Water	Battelle/DOH	A	Alpha,Beta,Gamma,H3
	Well 6-24-33	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-40-33A	Ground Water	Battelle/DOH	Q	Alpha,Beta,H3
	Well 6-S7-34	Ground Water	Battelle/DOH	SA	Alpha,Beta,Gamma,H3
	Well 6-40-1	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-42-2	Ground Water	Battelle/DOH	A	Alpha,Beta,Gamma,H3
	Well 6-43-3	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-44-4	Ground Water	Battelle/DOH	A	Alpha,Beta,Gamma,H3
	Well 3-1-3	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-N-2	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-N-32	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 3-1-17A	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-S30-E15A	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-S19-11	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-S12-3	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Well 6-S6-E4B	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-S6-E4D	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
Hanford	Well 6-41-1	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-32-43	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-36-46R	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 2-W22-9	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 2-W22-20	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-H4-4	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-N-3	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-N-14	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 1-N-70	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Well 6-50-53	Ground Water	Battelle/DOH	SA	Alpha,Beta,Gamma,H3
	Well 6-519-E13	Ground Water	Battelle/DOH	Q	Alpha,Beta,Gamma,H3
	Wye Barricade	Soil	DOH	A	Beta, Gamma
	200 ESE	Soil	DOH	A	Beta, Gamma
	E 200 E	Soil	DOH	A	Beta, Gamma
	SW BC Cribs	Soil	DOH	A	Beta, Gamma
	S 200 E	Soil	DOH	A	Beta, Gamma
	200 GTE	Soil	DOH	A	Beta, Gamma
	N 200 E	Soil	DOH	A	Beta, Gamma
	RT 11A Mile 9	Soil	DOH	A	Beta, Gamma
	Army Loop Camp	Soil	DOH	A	Beta, Gamma
	Yakima Barricade	Soil	DOH	A	Beta, Gamma
	Sunnyside	Soil	DOH	A	Beta, Gamma
	100N Fire Station	Soil	DOH	A	Beta, Gamma
	Hanford Townsite	Soil	DOH	A	Beta, Gamma
	Mose Lake	Leafy Veg.	Battelle/DOH	A	Gamma
	Sunnyside	Leafy Veg.	Battelle/DOH	A	Gamma
	Mose Lake	Alfalfa	Battelle/DOH	A	Gamma
	Sagemoor	Alfalfa	Battelle/DOH	A	Gamma
	Sunnyside	Potatoes	Battelle/DOH	A	Gamma

APPENDIX D CONTINUED
1991 SAMPLING SCHEDULE

REGION/AREA	SITE	MEDIA	COLLECTED BY	FREQ	ANALYSES
	Horn Rapids Triangle	Potatoes	Battelle/DOH	A	Gamma
Hanford	Sunnyside	Apples	Battelle/DOH	A	Gamma
	Ringold	Apples	Battelle/DOH	A	Gamma
	Sunnyside	Cherries	Battelle/DOH	A	Gamma
	Ringold	Cherries	Battelle/DOH	A	Gamma
	Sunnyside	Grapes	Battelle/DOH	A	Gamma
	Sagemoor	Grapes	Battelle/DOH	A	Gamma
	Sagemoor	Melons	Battelle/DOH	A	Gamma
	Moxey	Melons	Battelle/DOH	A	Gamma
	Hanford Townsite	Veg.	Battelle/DOH	A	Beta,Gamma
	300 Area	Veg.	Battelle/DOH	A	Beta,Gamma
	Onsite	Deer	Battelle/DOH	A	Gamma
	Offsite	Deer	Battelle/DOH	A	Gamma
	E. of Columbia River	Duck	Battelle/DOH	A	Gamma
	Priest Rapids Dam	Fish	Battelle/DOH	A	Gamma
	Hanford Reach	Fish	Battelle/DOH	A	Gamma
	Bonneville Dam	Fish	Battelle/DOH	A	Gamma
	Columbia River	Clams	Battelle/DOH	A	Gamma

APPENDIX E

FIGURES

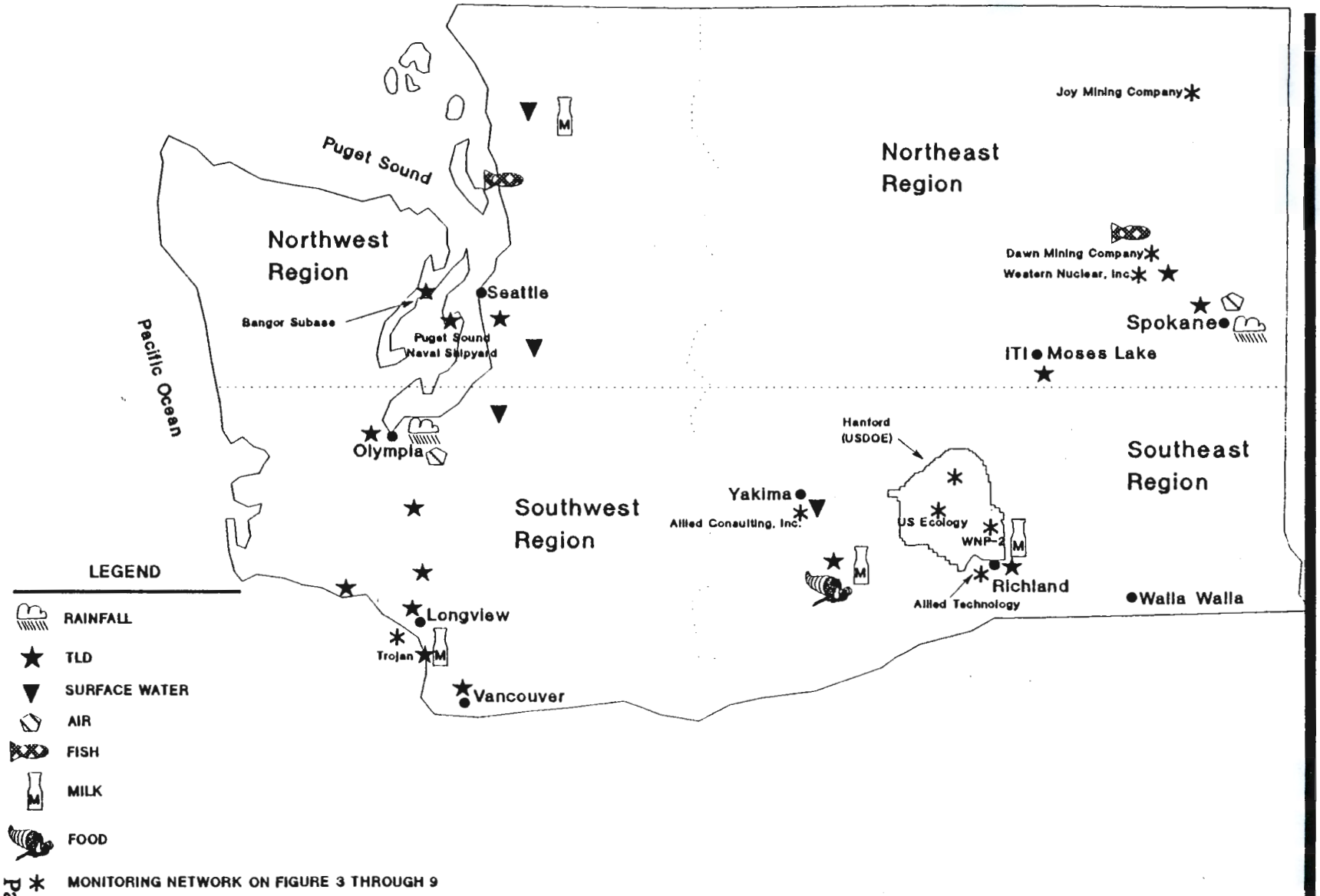
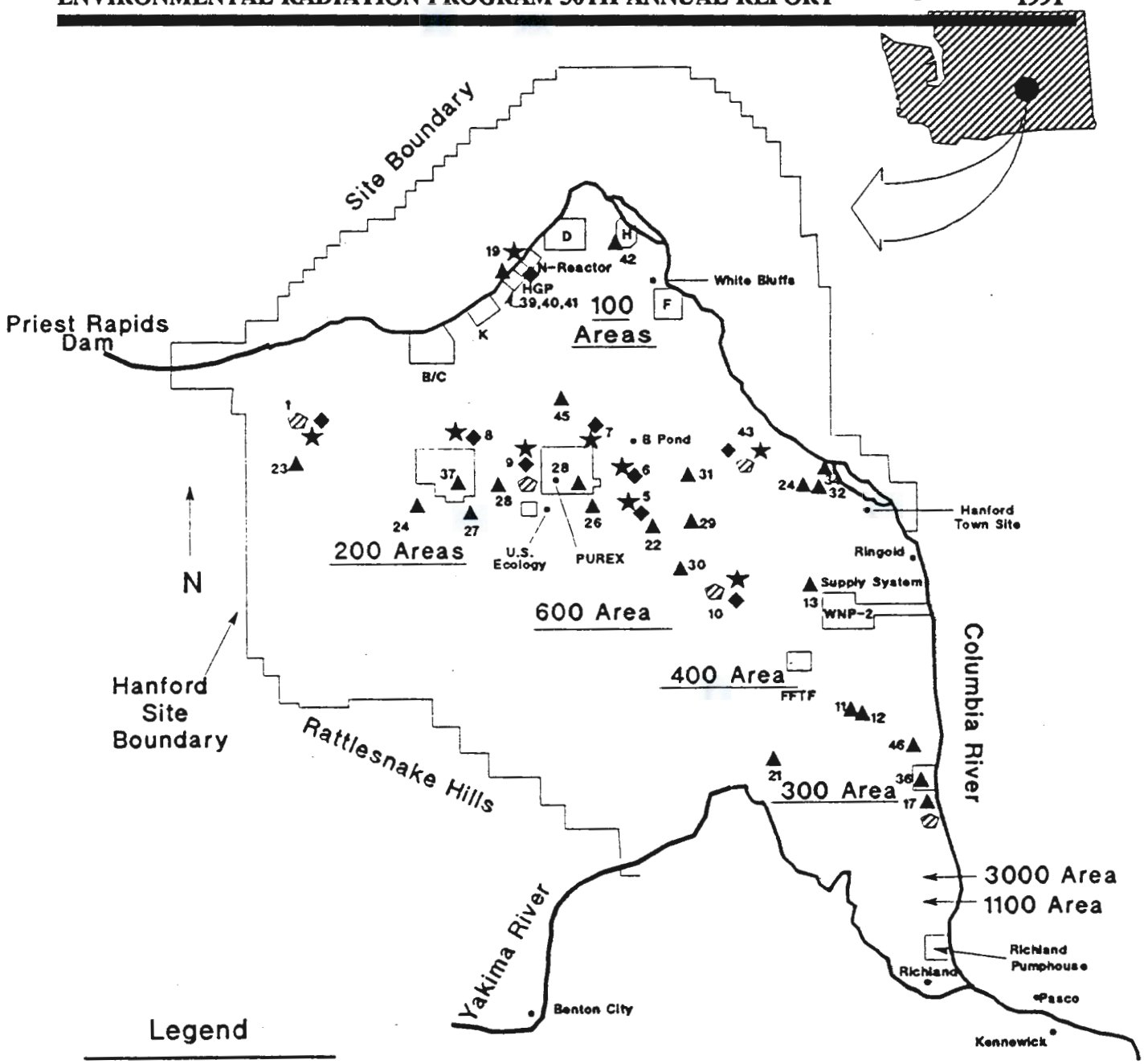


FIGURE 1 Environmental Radiation Monitoring In Washington State



Legend

- Air
- TLD
- Surface Water
- Groundwater
- Soil

SAMPLING LOCATIONS

1- Yakima Barricade
5- 200E SE
6- E 200 E
7- N 200 E
8- Rt 11A Mile 9
9- 200 GTE
10- Wye Barricade
11- Well 699-S6-E4D
12- Well 699-S6-E4B
13- Well 699-17-5
17- Well 699-S30E 15A
19- Well N-8-T
20- River Mile 42.2
21- Well 699-S19-11
22- Well 699-32-43
23- Well 699-48-100C
24- Well 699-41-1
26- Well 699-35-46R
27- Well 699-36-70
28- Well 699-35-66
29- Well 699-31-31
30- Well 699-24-33
31- Well 699-40-33A
32- Well 699-40-1
36- Well 399-1-17A
37- Well 299-W22-29
39- Well 199-N-70
40- Well 199-N-14
41- Well 199-N-3
43- Hanford Townsite
44- 100N Fire Station
46- Well 699-50-53
46- Well 699-S19-E13

FIGURE 2 Environmental Radiation Monitoring On The Hanford Reservation

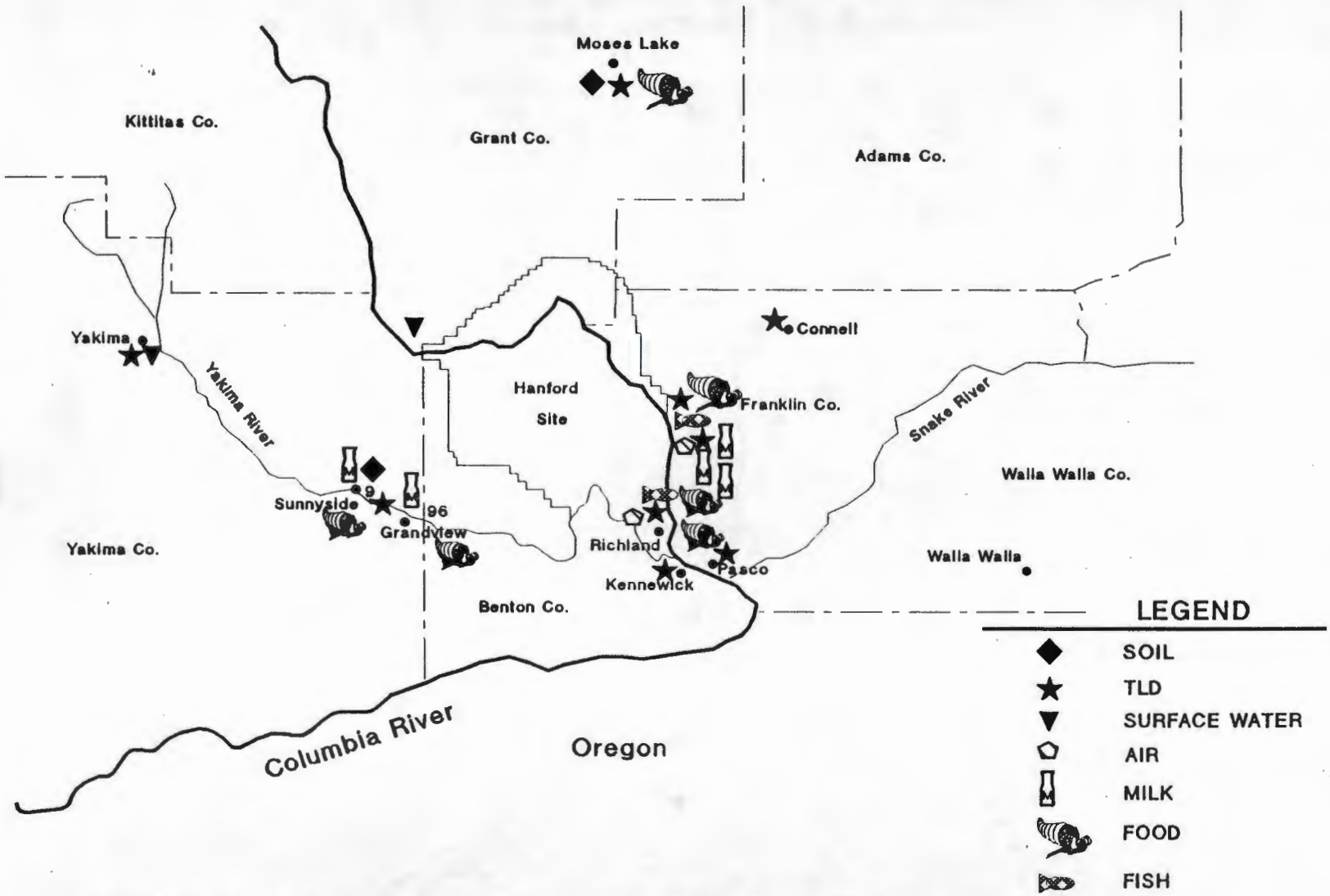


FIGURE 3 Environmental Radiation Sampling Stations In The Vicinity Of Hanford

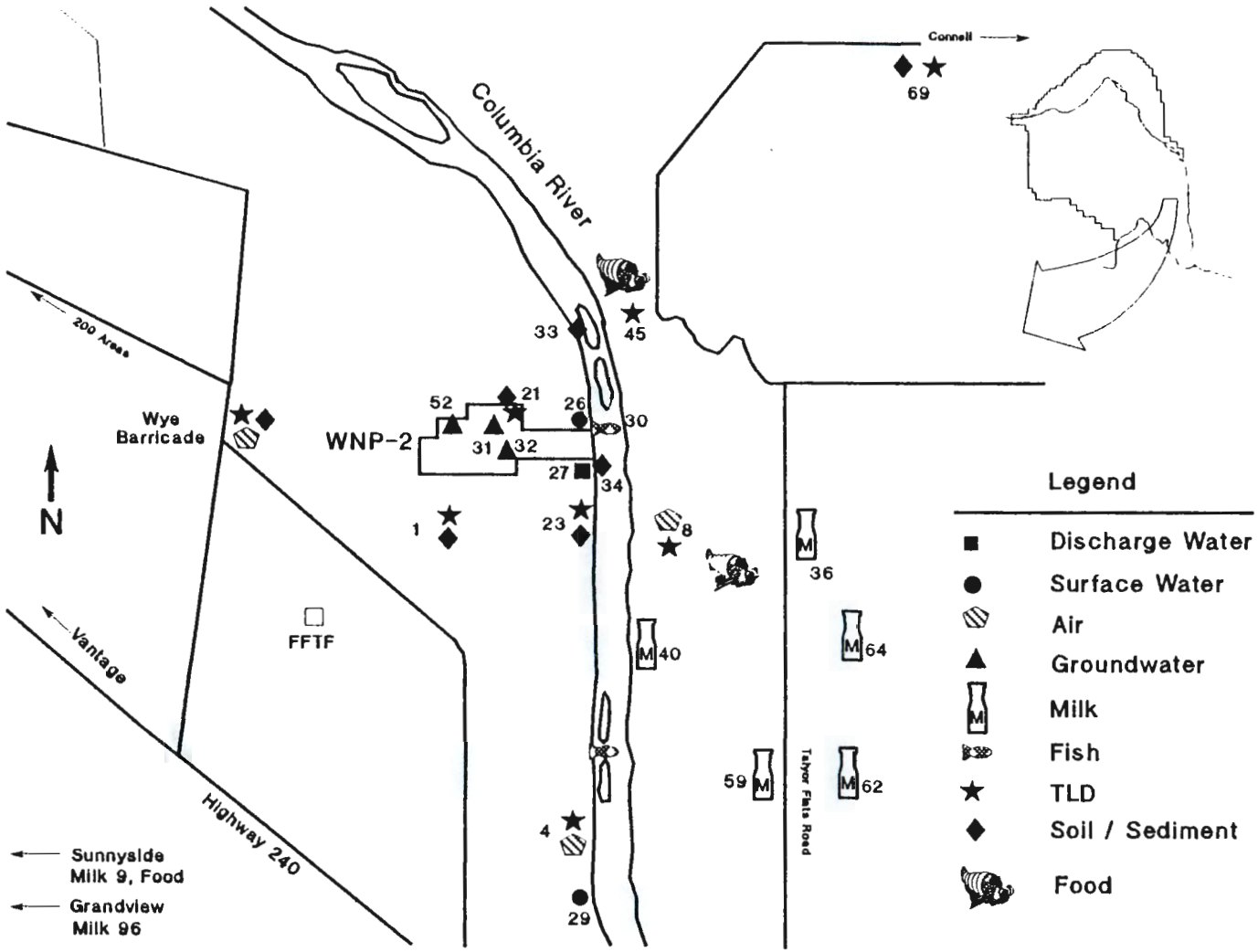


FIGURE 4 Environmental Radiation Sampling Stations In The Vicinity Of The Washington Public Power Supply System

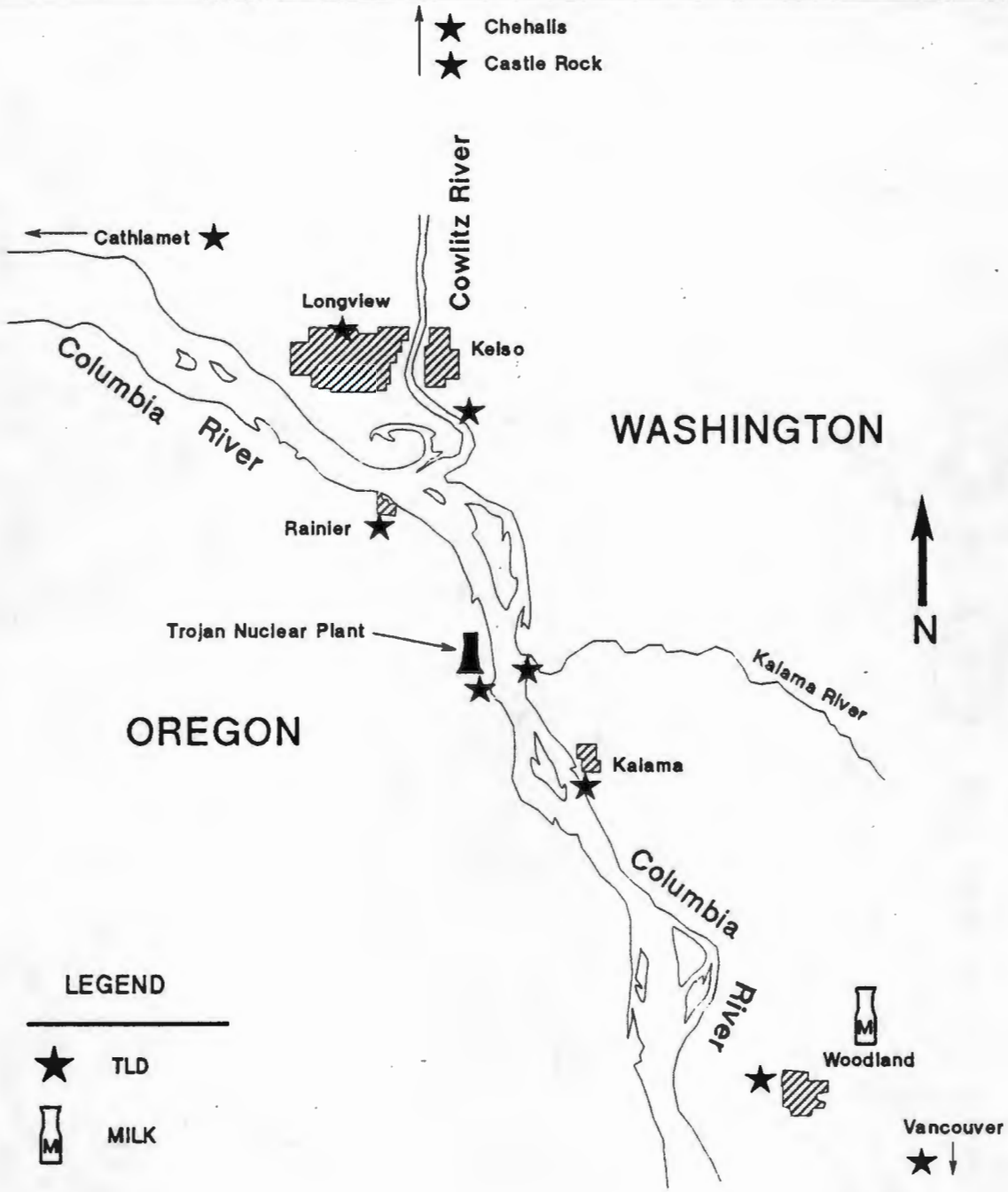


FIGURE 5 Environmental Radiation Sampling Stations In The Vicinity Of The Trojan Power Plant

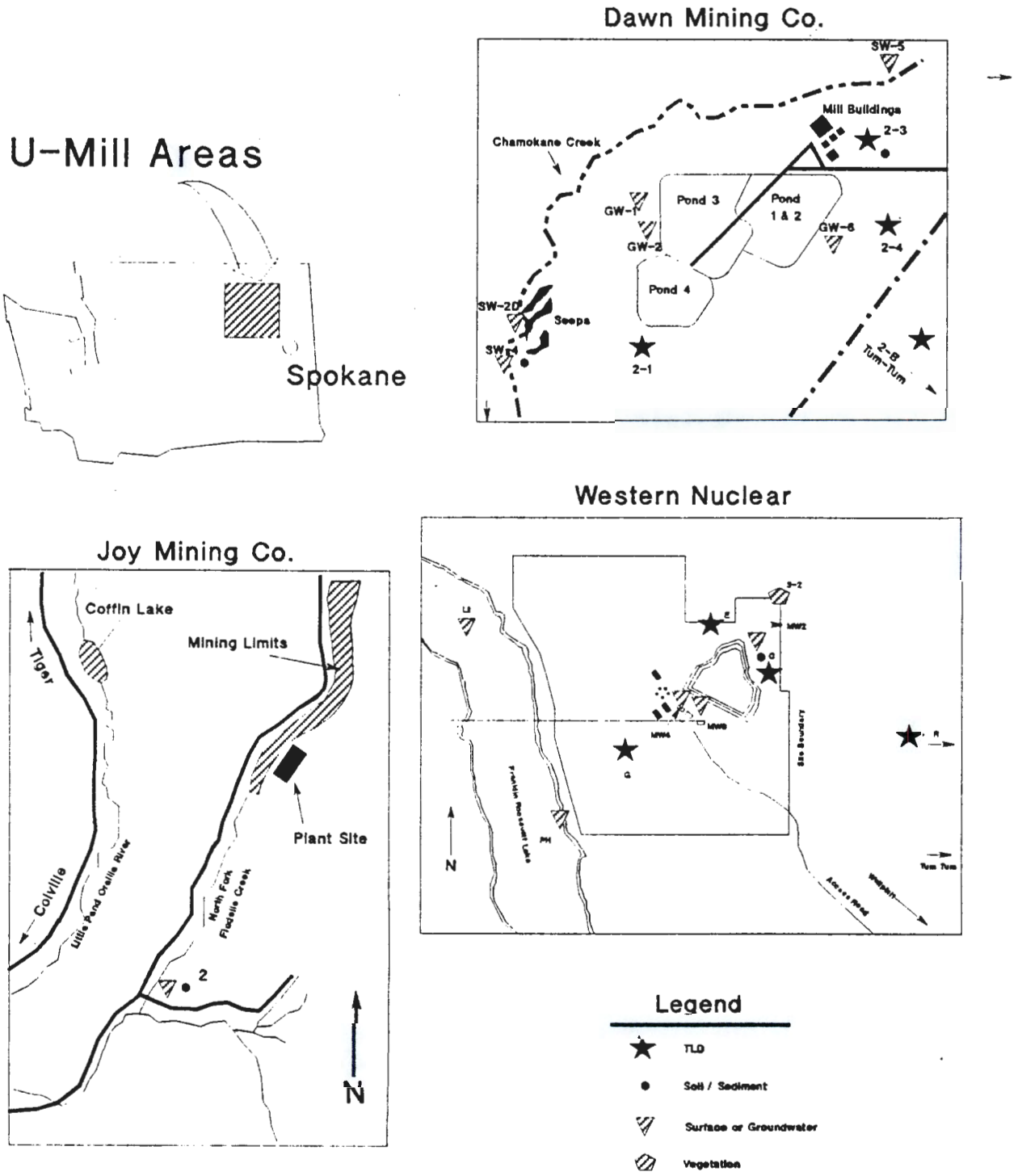


FIGURE 6 Environmental Radiation Sampling Stations At The Uranium Mills

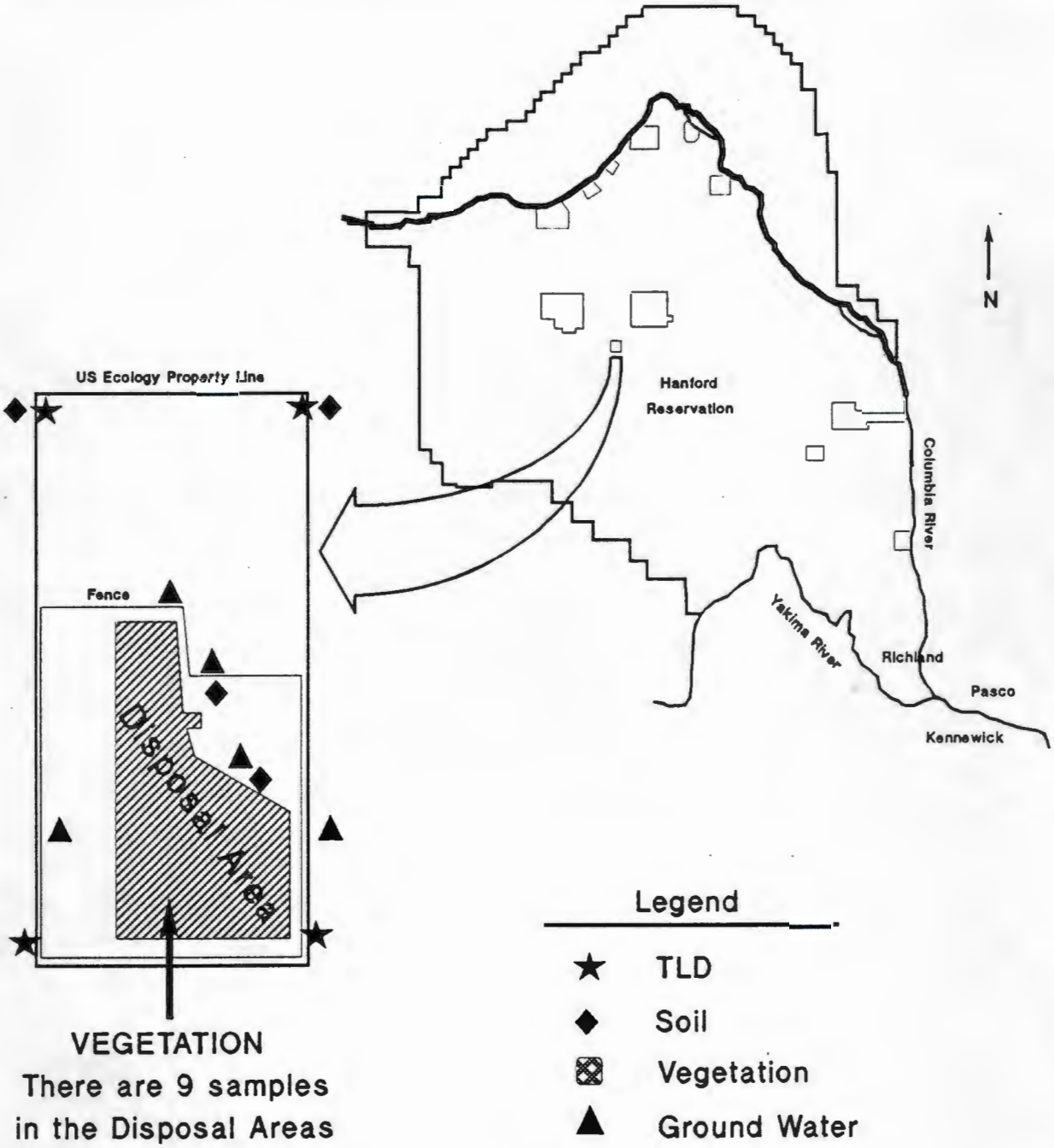


FIGURE 7 Environmental Radiation Sampling Stations At US Ecology

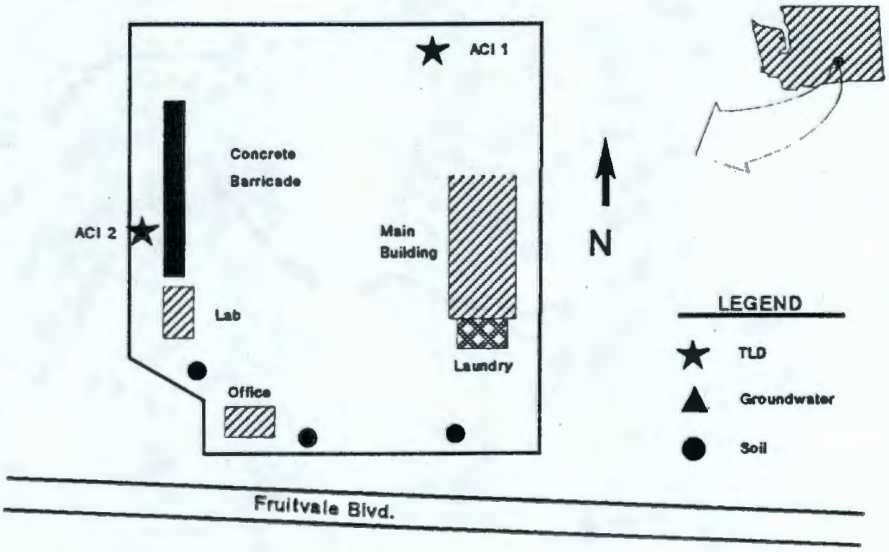


FIGURE 8 Environmental Radiation Monitoring Stations At Allied Consulting, Inc. In Yakima

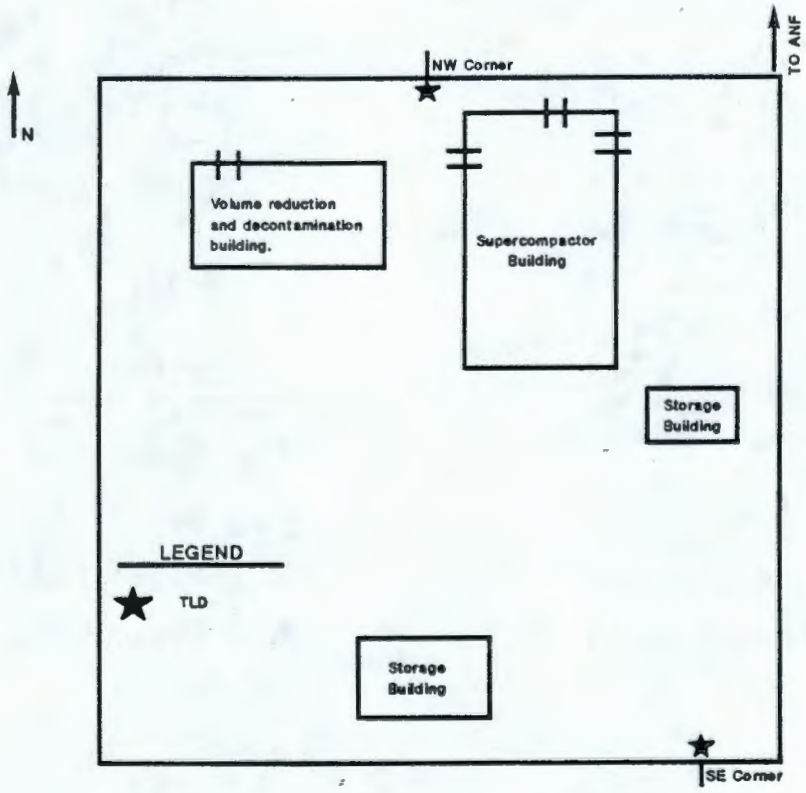


FIGURE 9 Environmental Radiation Monitoring Stations At Allied Technology Group, Inc. In Richland

APPENDIX F

ENVIRONMENTAL RADIATION LABORTORY

INTERCOMPARISON STUDIES

APPENDIX F

ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES EPA, EMSL-LV 1991

Date Coll.	Sample Type	Nuclide	Known Value	±	Expected Precision	Grand Average	±	Expected Sigma	Unit	Washington Avg.	±	2 Err	Norm Dev of Known Value
03/91	AIR	ALPHA	25.0	±	6.0	29.7	±	5.9	pCi/F	38.3	±	2.0	2.48
	"	BETA	124.0	±	6.0	130.1	±	13.6	pCi/F	131.0	±	2.0	0.26
	"	SR-90	40.0	±	5.0	39.3	±	5.2	pCi/F	43.0	±	2.2	1.28
	"	CS-137	40.0	±	5.0	44.6	±	7.6	pCi/F	47.3	±	2.7	0.94
08/91	AIR	ALPHA	25.0	±	6.0	28.3	±	5.0	pCi/F	23.7	±	1.8	-0.38
	"	BETA	92.0	±	10.0	95.5	±	9.0	pCi/F	101.0	±	2.0	1.56
	"	SR-90	30.0	±	5.0	29.1	±	3.9	pCi/F	31.7	±	2.5	0.58
	"	CS-137	30.0	±	5.0	32.5	±	5.4	pCi/F	36.6	±	2.5	2.31
04/91	MILK	SR-89	32.0	±	5.0	27.1	±	7.5	pCi/L	29.3	±	4.7	-0.92
	"	SR-90	32.0	±	5.0	28.0	±	5.1	pCi/L	31.7	±	2.1	-0.12
	"	I-131	60.0	±	6.0	61.2	±	5.8	pCi/L	61.7	±	0.5	0.48
	"	CS-137	49.0	±	5.0	51.4	±	3.7	pCi/L	52.3	±	3.3	0.15
	"	K-40	1650.0	±	83.0	1653.1	±	162.2	pCi/L	1776.7	±	60.0	2.64
09/91	MILK	SR-89	25.0	±	5.0	21.0	±	5.2	pCi/L	20.3	±	8.0	-1.62
	"	SR-90	25.0	±	5.0	21.1	±	4.2	pCi/L	24.3	±	3.5	-0.23
	"	I-131	108.0	±	11.0	108.6	±	8.3	pCi/L	112.7	±	5.0	0.73
	"	CS-137	30.0	±	5.0	31.4	±	2.4	pCi/L	32.3	±	3.1	0.81
	"	K-40	1740.0	±	87.0	1667.5	±	120.8	pCi/L	1740.7	±	60.0	0.01
04/91	PE WATER	ALPHA	54.0	±	14.0	49.7	±	11.4	pCi/L	51.7	±	3.0	-0.29
	"	RA-226	8.0	±	1.2	7.7	±	0.7	pCi/L	7.7	±	0.6	-0.38
	"	NAT U	29.8	±	3.0	28.9	±	3.4	pCi/L	34.4	±	0.7	2.66
	"	BETA	115.0	±	17.0	108.6	±	13.9	pCi/L	110.0	±	3.0	-0.51
	"	SR-89	28.0	±	5.0	25.7	±	6.5	pCi/L	14.7	±	6.7	-4.62
	"	SR-90	26.0	±	5.0	23.6	±	3.3	pCi/L	25.7	±	1.9	-0.12
	"	CS-134	24.0	±	5.0	23.0	±	2.1	pCi/L	23.7	±	2.2	-0.12
	"	CS-137	25.0	±	5.0	25.5	±	2.4	pCi/L	25.3	±	2.5	0.12

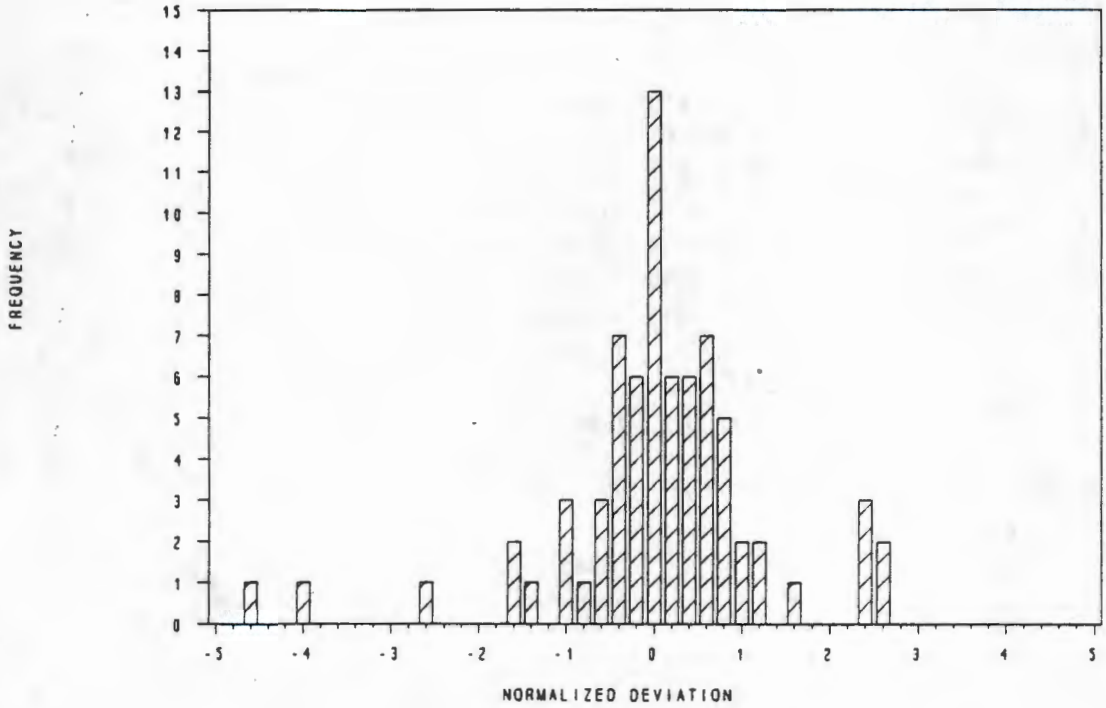
APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

10/91	PE WATER	ALPHA	82.0	±	21.0	75.6	±	18.4	pCi/L	73.7	±	9.0	-0.69
	"	RA-226	22.0	±	3.3	21.6	±	2.6	pCi/L	20.8	±	1.0	-0.65
	"	NAT U	13.5	±	3.0	13.3	±	1.9	pCi/L	14.0	±	0.5	0.29
	"	BETA	65.0	±	10.0	55.5	±	7.7	pCi/L	63.3	±	4.0	-0.29
	"	SR-89	10.0	±	5.0	9.8	±	2.5	pCi/L	9.7	±	4.5	-0.12
	"	SR-90	10.0	±	5.0	10.1	±	2.0	pCi/L	10.0	±	1.4	-0.00
	"	CO-60	20.0	±	5.0	20.2	±	2.1	pCi/L	20.0	±	3.0	0.00
	"	CS-134	10.0	±	5.0	9.6	±	1.2	pCi/L	9.0	±	2.0	-0.35
	"	CS-137	11.0	±	5.0	12.5	±	1.6	pCi/L	12.3	±	2.0	0.46
01/91	WATER	SR-89	5.0	±	5.0	5.2	±	1.6	pCi/L	4.0	±	2.3	-0.35
	"	SR-90	5.0	±	5.0	4.9	±	1.0	pCi/L	5.0	±	0.7	0.00
05/91	WATER	SR-89	39.0	±	5.0	37.4	±	8.3	pCi/L	27.3	±	4.3	-4.04
	"	SR-90	24.0	±	5.0	23.9	±	3.0	pCi/L	25.7	±	1.5	0.58
09/91	WATER	SR-89	49.0	±	5.0	49.6	±	9.1	pCi/L	41.3	±	4.4	-2.6
	"	SR-90	25.0	±	5.0	24.7	±	2.9	pCi/L	26.7	±	1.9	0.6
01/91	WATER	ALPHA	5.0	±	5.0	5.7	±	1.8	pCi/L	8.0	±	3.0	1.04
	"	BETA	5.0	±	5.0	6.3	±	1.5	pCi/L	6.0	±	1.0	0.35
05/91	WATER	ALPHA	24.0	±	6.0	20.0	±	6.6	pCi/L	26.0	±	3.0	0.58
	"	BETA	46.0	±	5.0	44.7	±	7.7	pCi/L	48.3	±	2.0	0.81
09/91	WATER	ALPHA	10.0	±	5.0	10.4	±	3.2	pCi/L	11.0	±	2.0	0.35
	"	BETA	20.0	±	5.0	20.3	±	3.7	pCi/L	21.7	±	2.0	0.58
02/91	WATER	CO-60	40.0	±	5.0	40.0	±	2.9	pCi/L	40.0	±	3.0	0.00
	"	ZN-65	149.0	±	15.0	149.7	±	10.7	pCi/L	149.7	±	6.0	0.08
	"	RU-106	186.0	±	19.0	191.8	±	19.9	pCi/L	175.3	±	22.0	-0.97
	"	CS-134	8.0	±	5.0	8.1	±	2.0	pCi/L	7.0	±	2.0	-0.35
	"	CS-137	8.0	±	5.0	9.1	±	1.6	pCi/L	8.7	±	2.4	0.23
	"	BA-133	75.0	±	8.0	74.1	±	5.9	pCi/L	79.0	±	4.0	0.87
06/91	WATER	CO-60	10.0	±	5.0	10.7	±	2.3	pCi/L	10.3	±	2.0	0.12
	"	ZN-65	108.0	±	11.0	109.5	±	8.1	pCi/L	109.3	±	7.0	0.21
	"	RU-106	149.0	±	15.0	141.5	±	14.1	pCi/L	65.7	±	4.0	-9.62
	"	CS-134	15.0	±	5.0	14.2	±	2.0	pCi/L	153.3	±	22.0	47.92

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

	"	CS-137	14.0	±	5.0	15.4	±	2.0	pCi/L	14.7	±	2.0	0.23
	"	BA-133	62.0	±	6.0	61.4	±	5.5	pCi/L	14.7	±	2.0	-13.66
10/91	WATER	CO-60	29.0	±	5.0	29.8	±	3.0	pCi/L	30.0	±	3.0	0.35
	"	ZN-65	73.0	±	7.0	74.6	±	6.6	pCi/L	75.3	±	7.0	0.58
	"	RU-106	199.0	±	20.0	194.2	±	20.9	pCi/L	190.3	±	21.0	-0.75
	"	CS-134	10.0	±	5.0	9.9	±	1.8	pCi/L	9.0	±	2.0	-0.35
	"	CS-137	10.0	±	5.0	10.9	±	2.2	pCi/L	9.7	±	2.0	-0.12
	"	BA-133	98.0	±	10.0	95.6	±	7.4	pCi/L	99.0	±	4.0	0.17
03/91	WATER	RA-226	31.8	±	4.8	29.5	±	4.3	pCi/L	27.6	±	1.2	-1.53
07/91	WATER	RA-226	15.9	±	2.4	15.3	±	1.2	pCi/L	13.9	±	0.9	-1.42
11/91	WATER	RA-226	6.5	±	1.0	6.4	±	0.7	pCi/L	6.0	±	0.6	-0.92
03/91	WATER	NAT U	7.6	±	3.0	7.3	±	1.4	pCi/L	8.0	±	0.5	0.25
07/91	WATER	NAT U	14.2	±	3.0	13.4	±	2.0	pCi/L	14.7	±	0.6	0.31
11/91	WATER	NAT U	24.9	±	3.0	23.8	±	3.0	pCi/L	25.0	±	0.7	0.04
01/91	WATER	PU-239	3.3	±	0.3	3.2	±	0.4	pCi/L	3.4	±	0.3	0.58
08/91	WATER	PU-239	19.4	±	1.9	19.2	±	4.6	pCi/L	22.1	±	1.0	2.49
02/91	WATER	H-3	4418.0	±	442.0	4437.5	±	332.8	pCi/L	4318.7	±	160.5	-0.39
06/91	WATER	H-3	12480.0	±	1248.0	12434.9	±	940.8	pCi/L	12346.7	±	200.0	-0.16
10/91	WATER	H-3	2454.0	±	352.0	2531.9	±	338.5	pCi/L	2340.0	±	130.0	-0.37
08/91	WATER	I-131	20.0	±	6.0	21.0	±	3.0	pCi/L	22.7	±	4.0	0.77

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES



Confidence Intervals

± 2 Warning Level
± 3 Control Limits

FIGURE F.1 LABORATORY INTERCOMPARISON STUDIES EPA, EMSL-LV

Frequency Distribution of Normalized
Deviation from the Known

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

AIR FILTERS (Bq/Filter)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
Be-7	03/91	0.530 E +02	0.535 E +02	0.573 E +02	6
Mn-54	03/91	0.480 E +01	0.521 E +01	0.598 E +01	7
Co-57	03/91	0.582 E +01	0.595 E +01	0.607 E +01	4
Co-60	03/91	0.514 E +01	0.511 E +01	0.550 E +01	8
Sr-90	03/91	0.789 E -01	0.747 E -01	0.791 E +00	10
Cs-137	03/91	0.453 E +01	0.505 E +01	0.515 E +01	7
Ce-144	03/91	0.522 E +02	0.573 E +02	0.573 E +02	2
Pu-239	03/91	0.154 E +00	0.149 E +00	0.110 E +00	15
Am-241	03/91	0.101 E +00	0.915 E -01	0.104 E +00	9
U-234	03/91	0.350 E -01	0.358 E -01	0.320 E -01	2
U-238	03/91	0.350 E -01	0.373 E -01	0.388 E -01	2
U-BQ	03/91	0.700 E -01	0.642 E -01	0.708 E -01	2

AIR FILTERS (Bq/Filter)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
Be-7	09/91	0.538 E +02	0.537 E +02	0.569 E +02	6
Mn-54	09/91	0.243 E +02	0.239 E +02	0.250 E +02	0
Co-57	09/91	0.166 E +02	0.170 E +02	0.167 E +02	1
Co-60	09/91	0.230 E +02	0.223 E +02	0.216 E +02	2
Sr-90	09/91	0.663 E +00	0.663 E +00	0.576 E +00	17
Cs-137	09/91	0.280 E +02	0.277 E +02	0.265 E +02	1
Ce-144	09/91	0.508 E +02	0.483 E +02	0.482 E +02	2
Pu-239	09/91	0.840 E -01	0.828 E -01	0.744 E -01	11
Am-241	09/91	0.104 E +00	0.987 E -01	0.989 E -01	13
U-234	09/91	0.395 E -01	0.430 E -01	0.313 E -01	29
U-238	09/91	0.388 E -01	0.426 E -01	0.346 E -01	24
U-BQ	09/91	0.783 E -01	0.708 E -01	0.644 E -01	20

*** Mean of submitted data in range of 0.5 to 2.0 times EML value.**

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

SOIL (Bq/kg)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
K-40	03/91	0.374 E +03	0.388 E +03	0.459 E +03	7
Sr-90	03/91	0.920 E +01	0.100 E +02	0.817 E +01	23
Cs-137	03/91	0.150 E +03	0.163 E +03	0.174 E +03	2
Pu-239	03/91	0.340 E +01	0.346 E +01	0.317 E +01	5
Pu-238	03/91	0.115 E +02	0.103 E +02	0.900 E +01	3
U-234	03/91	0.294 E +02	0.282 E +02	0.285 E +02	3
U-238	03/91	0.300 E +02	0.289 E +02	0.279 E +02	3
U-BQ	03/91	0.594 E +02	0.663 E +02	0.564 E +02	3

SOIL (Bq/kg)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
K-40	09/91	0.430 E +03	0.448 E +03	0.477 E +03	5
Sr-90	09/91	0.378 E +01	0.354 E +01	0.222 E +01	46
Ce-137	09/91	0.312 E +03	0.347 E +03	0.371 E +03	1
Pu-239	09/91	0.735 E +01	0.792 E +01	0.778 E +01	5
Am-241	09/91	0.158 E +01	0.151 E +01	0.116 E +01	18
U-234	09/91	0.289 E +02	0.251 E +02	0.293 E +02	2
U-238	09/91	0.289 E +02	0.246 E +02	0.297 E +02	2
U-BQ	09/91	0.578 E +02	0.496 E +02	0.596 E +02	1

VEGETATION (Bq/kg)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
K-40	03/91	0.115 E +04	0.120 E +04	0.132 E +04	3
Sr-90	03/91	0.186 E +03	0.162 E +03	0.190 E +03	3
Cs-137	03/91	0.676 E +02	0.721 E +02	0.770 E +02	4
Pu-238	03/91	0.406 E +01	0.335 E +01	0.347 E +01	4
Pu-239	03/91	0.140 E +01	0.104 E +01	0.867 E +00	7
Am-241	03/91	0.829 E +00	0.829 E +00	0.670 E +00	12

*** Mean of submitted data in range of 0.5 to 2.0 times EML value.**

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

VEGETATION (Bq/kg)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
K-40	09/91	0.992 E +03	0.105 E +04	0.108 E +04	3
Sr-90	09/91	0.439 E +03	0.359 E +03	0.292 E +03	2
Cs-137	09/91	0.271 E +02	0.296 E +02	0.236 E +02	7
Pu-239	09/91	0.365 E +00	0.365 E +00	0.253 E +00	23
Am-241	09/91	0.266 E +00	0.254 E +00	0.185 E +00	40

WATER (Bq/L)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
H-3	03/91	0.361 E +03	0.347 E +03	0.299 E +03	2
Mn-54	03/91	0.213 E +03	0.231 E +03	0.222 E +03	1
Co-57	03/91	0.230 E +03	0.235 E +03	0.225 E +03	0
Co-60	03/91	0.201 E +03	0.201 E +03	0.188 E +03	2
Sr-90	03/91	0.863 E +01	0.893 E +01	0.850 E +01	8
Cs-137	03/91	0.169 E +03	0.183 E +03	0.176 E +03	1
Ce-144	03/91	0.351 E +02	0.410 E +02	0.383 E +02	12
Pu-239	03/91	0.773 E +00	0.688 E +00	0.557 E +00	5
Am-241	03/91	0.119 E +01	0.109 E +01	0.116 E +01	6
U-238	03/91	0.219 E +00	0.225 E +00	0.231 E +00	14
U-234	03/91	0.218 E +00	0.226 E +00	0.226 E +00	15
U-BQ (2)	03/91	0.437 E +00	0.338 E +00	0.457 E +00	10

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

WATER (Bq/L)

Nuclide	Mo/Yr	E. M. L. Known	Mean * Reported	D.O.H. Reported	Reported % Error
H-3	09/91	0.100 E +03	0.100 E +03	0.948 E +02	5
Mn-54	09/91	0.103 E +03	0.106 E +03	0.106 E +03	3
Co-57	09/91	0.166 E +03	0.174 E +03	0.169 E +03	1
Co-60	09/91	0.291 E +03	0.305 E +03	0.301 E +03	1
Sr-90	09/91	0.101 E +02	0.105 E +02	0.996 E +01	7
Cs-137	09/91	0.460 E +02	0.492 E +02	0.474 E +02	5
Cs-144	09/91	0.226 E +03	0.228 E +03	0.225 E +03	4
Pu-239	09/91	0.510 E +00	0.490 E +00	0.501 E +00	4
Am-241	09/91	0.570 E +00	0.550 E +00	0.544 E +00	9
U-234	09/91	0.462 E +00	0.496 E +00	0.520 E +00	5
U-238	09/91	0.478 E +00	0.491 E +00	0.502 E +00	5
U-BQ	09/91	0.940 E +00	0.971 E +00	0.102 E +01	4

*** Mean of submitted data in range of 0.5 to 2.0 times EML value.**

APPENDIX F CONTINUED
1991 ENVIRONMENTAL RADIATION LABORATORY INTERCOMPARISON STUDIES

Expected Laboratory Precision
One Standard Deviationfor Single Determination

ANALYSIS	ACTIVITY LEVEL	EXPECTED LAB PRECISION
Gamma Emitters	5 to 100 pCi/L or kg	5 pCi/L
	> 100 pCi/L or kg	5% of Known Value
Zinc-65, Ruthenium-106, Barium-133	5 to 50 pCi/L	5 pCi/L
	> 50 pCi/L	10% of Known Value
Strontium-89,90	5 to 100 pCi/L or kg	5 pCi/L
	> 100 pCi/L or kg	5% of Known Value
Potassium	≥ 0.1 g/L or kg	5% of Known Value
Gross Alpha	≤ 20 pCi/L or Filter	5 pCi/L or Filter
	> 20 pCi/L or Filter	25% of Known Value
Gross Beta	≤ 50 pCi/L or Filter	5 pCi/L or Filter
	> 50 to 100 pCi/L or Filter	10 pCi/L or Filter
	> 100 pCi/L	15% of Known Value
Tritium	< 4,000 pCi/L	$(170)\ (\text{Known})^{0.0933}$
	≥ 4,000 pCi/L	10% of Known Value
Radium-226	≥ 0.1 pCi/L	15% of Known Value
Plutonium-239	≥ 0.1 pCi/L	10% of Known Value
Iodine-131	≤ 55 pCi/L	6 pCi/L
	> 55 pCi/L	10% of Known Value
Uranium	≤ 35 pCi/L	3 pCi/L
	> 35 pCi/L	10% of Known Value

APPENDIX G

LABORATORY AND EQUIPMENT DESCRIPTIONS AND ANALYTICAL PROCEDURES

APPENDIX G

LABORATORY AND EQUIPMENT DESCRIPTIONS AND ANALYTICAL PROCEDURES

Samples collected at routine monitoring stations and as part of special investigations are sent for analysis to the Washington State Radiation Laboratories in Seattle. Analytical support is obtained on occasion from the U.S. Environmental Protection Agency's (EPA) National Environmental Research Center in Las Vegas and the U.S. Department of Energy's (DOE) Radiological and Environmental Sciences Laboratory in Idaho Falls. Tests discussed here are performed in the State Radiation Laboratory.

RADIATION COUNTING EQUIPMENT:

1. Screening for Gamma Activity:
   Gamma screening is conducted with an Intrinsic Germanium detector supported by an IBM PS-2 computer. Operation and data reduction are performed using Nuclear Data (ND) ASAP nuclide analysis software.

2. Gamma Analysis:
   The laboratory's primary gamma spectroscopy system is a Nuclear Data 6700. The qualitative identification of specific radionuclides as well as quantitative determination of radionuclide concentration is accomplished with ND nuclide analysis software. The system supports three Intrinsic Germanium detectors. Each detector has a resolution of less than 2 KeV of Full Width Half Maximum and a counting efficiency of 30 percent relative to a 3" x 3" sodium iodide crystal.
   Sample geometries used for gamma counting are:

   - 3 liter Marinelli Beaker
   - 400 mL container
   - 100 mL - 4 ounce container
   - 2" planchet for counting air filters and wipe samples
   - charcoal cartridges for analyzing I-131 in air.

3. Gross Alpha and Beta Analysis
   Two Tennelec LB5100 series low background gas flow proportional counting systems are used for measuring gross alpha and beta radioactivity. The systems are equipped with an automatic programmable sample changer. Counting data is collected by PC and transferred into the PRIME 550 mini-computer for reduction. A manually operated Tennelec system TC 535P is also available.

APPENDIX G CONTINUED
LABORATORY AND EQUIPMENT

4. Alpha Spectroscopy Analysis
A VAX Workstation 3100 is used to controlled eight silicon surface barrier alpha detectors installed in spectrometers. The laboratory is using alpha detectors and spectrometers manufactured by the Tennelec and Ortec Corporations. An ND-589 AMX Multiplexer is used to connect the VAX Workstation to all of the detectors.

5. Liquid Scintillation Analysis
The laboratory has a Packard 2550 TR liquid scintillation counter. The counter is used by the radiation laboratory for measuring tritium, technicium in water, wipe, food and vegetation samples and nickel-63 in wipe samples.

6. Thermoluminescent Dosimetry
Lithium fluoride (LiF-100) thermoluminescent dosimeter (TLD) chips are utilized by the laboratory for measuring ambient gamma radioactivity. Two Harshaw Corporation model 2271 TLD analyzers are used to analyze TLD's. The analyzed data is tabulated and manually entered into the PRIME 550 mini-computer for data reduction.

RADIOCHEMISTRY PROCEDURES

The following is a brief summary of pertinent radiochemical techniques used in the preparation of samples prior to instrumental analysis. The number following the procedure name refers to the analytical instrument used as described above in the RADIATION COUNTING EQUIPMENT section.

A. Gross Alpha and Beta Activity in Water and Soil (3)

WATER
A portion of a sample is evaporated to reduce the volume to a dried residue on a planchet. The planchet is counted on the alpha/beta counter. Data from the counter are transferred to the PRIME 550 mini-computer for activity calculation.

SOIL
Soil is prepared by drying the sample and passing the dried sample through a #9 sieve (Tyler screen scale). Three planchets containing 200, 400 and 600 mg of the sample are counted on the alpha/beta counter. The counting data is transferred to the PRIME computer for activity calculation. The average gross beta activity for the three sample weights is reported.

B. Tritium in Water (5)

A water sample is distilled. Five milliliters of distillate is pipetted into a scintillation vial. Twenty milliliters of scintillation cocktail is added to the vial. The vial is counted on the liquid scintillation counter. The counting data is entered into the PRIME 550 mini-computer for the tritium activity calculation.

APPENDIX G CONTINUED
LABORATORY AND EQUIPMENT

C. Low-level Iodine-131 in Milk (2)

Iodine is removed from whole milk using ion-exchange resin. The resin is counted on the gamma counter for Iodine-131 activity.

D. Preparation of Soil, Vegetation, and Water Filters for Radium, Uranium, Thorium and Plutonium Analyses

SOIL
A soil sample is prepared for alpha-emitting radionuclides analyses by drying and sieving. Then, a portion of the sample is fused with potassium fluoride-pyrosulfate. The fused sample is dissolved in acidified water.

VEGETATION
A vegetation sample is dried in an oven and then ashed in a muffle furnace. The ashed sample is dissolved in dilute hydrochloric acid. Aliquots of the solution are analyzed.

WATER FILTER
A water filter is digested with nitric and hydrofluoric acids and diluted with deionized water. Aliquots of the solution are analyzed.

E. Uranium Analysis of Water, Soil, Vegetation, and Water Filters by Alpha Spectroscopy (4)
This method isotopically determines Uranium-234, 235, 236 and 238. A Uranium-232 tracer and ferric chloride carrier are added to a prepared sample solution. The solution is boiled to eliminate carbonate and bicarbonate ions and ammonium hydroxide is added to precipitate uranium along with ferric hydroxide. The precipitate is then dissolved in hydrochloric acid and the uranium further separated from other radionuclides by anion exchange chromatography. The purified uranium fraction is precipitated with cerium fluoride on a filter which is analyzed using alpha spectroscopy.

F. Thorium and Plutonium Analyses for Water, Soil, Vegetation, and Water Filters by Alpha Spectroscopy (4)

The method determines the isotopic activity of Plutonium-238 and 239 and Thorium 230 and 232. A plutonium 242 and/or Thorium-234 tracer solutions are added to a prepared sample solution. Chemical separation requires steps to assure that the elements are in the proper oxidation state. The elements thorium through plutonium are then precipitated on barium sulfate and dissolved in aluminum nitrate. A quaternary amine is used to extract the elements thorium through plutonium from the solution. Thorium is removed from this amine solution by scrubbing with hydrochloric acid. Plutonium, protactinium,and neptunium are removed by scrubbing with a perchloric/oxalic acid solution. Each fraction is purified and then precipitated with cerium fluoride on a filter which is analyzed by alpha spectroscopy.

APPENDIX G CONTINUED
LABORATORY AND EQUIPMENT

G. Radium Analysis for Water, Soil, Vegetation, and Water Filters by Alpha counting (3)
Barium and lead carrier solutions are added to a portion of a sample solution. Radium and other actinides are precipitated as sulfates along with barium and lead. The precipitate is dissolved in a basic DTPA solution. Acetic acid is added in slight excess to cause co-precipitation of radium with the barium carrier. The precipitate is transferred to a planchet and dried. Radium daughters are allowed to ingrow for approximately one month and then the planchet is counted for gross alpha activity. Radium activity is manually calculated.

H. Strontium (Sr) Analysis for Water, Milk and Vegetation (2)

WATER
A nitric acid separation method is used to determine Sr-89 and Sr-90 in water samples. After strontium and calcium carrier solutions are added to a sample aliquot, strontium, calcium, barium, radium, and rare earth nuclides are precipitated as oxalates in an excess of oxalic acid. The oxalates are then converted to nitrates to allow separation of calcium from strontium by differences in solubility. Strontium is scavenged with barium, iron and rare earth carriers and then precipitated as a carbonate. Yttrium 90 is allowed to ingrow. The strontium nitrate is then dissolved and reprecipitated with fuming nitric acid, leaving Y-90 in the supernate solution. Both fractions are transferred to planchets and counted for beta activity. The Sr-90 activity is determined as Y-90 from counting the Y-90 planchet. The Sr-89 activity is the calculated difference between the activity of total radioactive strontium and that of Sr-90. Chemical yield is determined by atomic absorption spectrometry.

MILK
After addition of strontium carrier to a sample, milk proteins are precipitated with trichloracetic acid and removed by filtration. The filtrate is analyzed for Sr-89 and Sr-90 as a water sample.

FOOD AND VEGETATION
The food or vegetation is thoroughly blended to achieve a homogeneous slurry. The blended sample is dried in an oven and ashed in a muffle furnace. The ashed sample is dissolved in dilute hydrochloric acid and the solution is analyzed for Sr-89 and Sr-90 as a water sample.

SOIL
A sieved and well mixed sample is leached with diluted hydrochloric acid and the leachate filtered. Strontium carrier solution is added to the leachate and the analysis of the leachate proceeds as it is described in strontium analysis of water samples.

APPENDIX G CONTINUED
LABORATORY AND EQUIPMENT

I. Technetium-99 Analysis for Water and Food Samples (5)

WATER
After removing of interfering isotopes from a water sample, by precipitation, technicium is absorbed onto an ion-exchange resin. The technetium is then eluted and beta counted on a liquid scintillation counter.

FOOD
A sample is wet ashed with concentrated acids. The resulting solution is then analyzed as a water sample.

J. Ambient Gamma Radiation Measurement (6)

The TLD dosimeter card consists of four LiF TLD-100 chips (1/8" x 1/8" x 0.035") encased between two layers of teflon. Prior to placement in the field, each chip is pre-annealed so that all chips give a consistent, low background reading. Each card or pair of cards are wrapped in foil-lined paper and placed into an identified laminated plastic packet. The packets are then sealed in a second layer (10 ml) of clear plastic.

In addition to the packets prepared for monitoring environmental gamma radiation packets are also prepared for calibration and quality control. These packets are composed of three types. They are:

1. A set of packages for calibration of the TLD analyzer. These packets are exposed to 100 mR from a Cs-137 source at the University of Washington calibration laboratory at midpoint of field exposure.

2. A set of packets which accompany each set of TLD's as they are exchanged. These packets are used to determine the exposure received during transit.

3. A set of packets for fixed site facilities. These packets are prepared to quantify the radiation that is not due to the operation of the facility. The packet which is sent with the environmental TLD's is kept at the facility site but in an area removed from the operation being monitored.

Packets are exchange every three months. When returned to the laboratory for analysis the cards are removed from the packets and read on the TLD analyzer. Readings from the chips are entered into the PRIME 550 mini-computer and exposure dose (mR/day) is calculated.

APPENDIX H

ANALYTICAL LOWER LIMITS OF DETECTION

APPENDIX H
ANALYTICAL LOWER LIMITS OF DETECTION

WATER

	NUCLIDE	VOLUME	METHOD	STANDARD 1000 MIN (pCi/L)	PRIORITY 10 MIN (pCi/L)
ALPHA	Nat-U	500 ml	Alpha Spec	2.00E-01	2.00E+00
	Ra-226	500 ml	αß Cntr	2.00E-01**	7.00E-01
	Tot-Th	500 ml	Alpha Spec	1.50E-01	2.00E+00
	Th-230	500 ml	Alpha Spec	1.00E-01	1.00E+00
	Pu-238	1 L	Alpha Spec	3.00E-02	3.00E-01
	Pu239/240	1 L	Alpha Spec	2.00E-02	2.00E-01
	Am-241	500 ml	Alpha Spec	8.00E-02	8.00E-01

	NUCLIDE	VOLUME	METHOD	STANDARD 400 MIN (pCi/L)	PRIORITY 10 MIN (pCi/L)
GAMMA	K-40	3 L	INGE	3.00E+01	1.70E+02
	Cr-51	3 L	INGE	3.00E+01	1.70E+02
	Mn-54	3 L	INGE	2.00E+00	1.50E+01
	Co-58	3 L	INGE	2.00E+00	1.40E+01
	Co-60	3 L	INGE	3.00E+00	1.50E+01
	Fe-59	3 L	INGE	5.00E+00	2.80E+01
	Zn-65	3 L	INGE	5.00E+00	2.70E+01
	Zr-95	3 L	INGE	5.00E+00	2.80E+01
	Nb-95	3 L	INGE	3.00E+00	1.60E+01
	Ru-103	3 L	INGE	3.00E+00	2.00E+01
	Ru-106	3 L	INGE	2.00E+01	1.30E+02
	Sn-113	3 L	INGE	3.00E+00	2.00E+01
	Sb-125	3 L	INGE	7.00E+00	4.30E+01
	*I-131	3 L	INGE	3.00E+00	1.90E+01
	Cs-134	3 L	INGE	3.00E+00	1.50E+01
	Cs-137	3 L	INGE	3.00E+00	1.60E+01
	Ba-140	3 L	INGE	1.70E+01	1.10E+02
	Ce-144	3 L	INGE	2.00E+01	1.30E+02
	Eu-152	3 L	INGE	7.00E+00	5.00E+01
	Eu-154	3 L	INGE	7.00E+00	4.00E+01
	Eu-155	3 L	INGE	1.00E+01	6.00E+01

	NUCLIDE	VOLUME	METHOD	STANDARD 200 MIN (pCi/L)	STANDARD 100 MIN pCi/L)	PRIORITY 20 MIN (pCi/L)
BETA	H-3	5 ml	Scintillation	3.50E+02		1.10E+03
	Sr-89	1 L	Nitric Acid		7.00E-01	
	Sr-90	1 L	Nitric Acid		7.00E-01	
GROSS	Beta	500ml	αß Cntr		1.00E-00	2.00E+00
	Alpha	100 ml	αß Cntr		4.00E+00	9.00E+00

* LLD calculated for a decay time of 3 days.

** Standard Counting Time - 100 minutes.

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

WATER FILTER

	NUCLIDE	VOLUME	METHOD	400 MIN (pCi/m³)	10 MIN (pCi/m³)
ALPHA	Nat-U	2 L	Alpha Spec	9.00E-02	5.00E-01
	Ra-226	2 L	αß Cntr	3.00E-02	2.00E-01
	Th-230	2 L	Alpha Spec	5.00E-02	3.00E-01

SOIL / SEDIMENT

	NUCLIDE	MASS	METHOD	STANDARD 400 MIN (pCi/g)	PRIORITY 10 MIN (pCi/g)
ALPHA	Nat-U	1 G	Alpha Spec	2.00E-01	
	Nat-U (da)	600 G	INGE	1.00E-01	1.00E+00
	Ra-226	1 G	αß Cntr	1.00E-01 *	
	Ra-226 (da)	600 G	INGE	2.00E-02	2.00E-01
	Tot-Th	1 G	Alpha Spec	1.00E-01	
	Th-230	1 G	Alpha Spec	1.00E-01	
	Pu-238	10 G	Alpha Spec	6.00E-03	
	Pu239/240	10 G	Alpha Spec	6.00E-03	
	Am-241	10 G	Alpha Spec	2.00E-02	
GAMMA	K-40	600 G	INGE	1.00E-01	7.00E-01
	Mn-54	600 G	INGE	1.00E-02	8.00E-02
	Co-60	600 G	INGE	1.00E-02	8.00E-02
	Zn-65	600 G	INGE	4.00E-02	2.00E-01
	Zr-95	600 G	INGE	3.00E-02	2.00E-01
	Ru-103	600 G	INGE	1.00E-02	8.00E-02
	Ru-106	600 G	INGE	1.00E-01	7.00E-01
	Sb-125	600 G	INGE	3.00E-02	2.00E-01
	Cs-134	600 G	INGE	2.00E-02	1.00E-01
	Cs-137	600 G	INGE	1.00E-02	8.00E-02
	Ce-144	600 G	INGE	7.00E-02	5.00E-01
	Eu-152	600 G	INGE	4.00E-02	2.00E-01
	Eu-154	600 G	INGE	4.00E-02	3.00E-01
	Eu-155	600 G	INGE	4.00E-02	3.00E-01
	Am-241	600 G	INGE	6.00E-02	4.00E-01

	NUCLIDE	MASS	METHOD	STANDARD 400 MIN (pCi/g)	PRIORITY 10 MIN (pCi/g)
BETA	Sr-89	250 G	Nitric Acid	3.00E-03	
	Sr-90	250 G	Nitric Acid	3.00E-03	
GROSS	Beta	400 mg	αß Cntr	1.00E+00	4.00E+00
	Alpha	100 mg	αß Cntr	4.00E+00	9.00E+00

* Standard Counting Time- 100 Minutes.

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

MILK

	NUCLIDE	VOLUME	METHOD	STANDARD 400 MIN (pCi/L)	PRIORITY 10 MIN (pCi/L)
GAMMA	K-40	3 L	INGE	3.00E+01	1.90E+02
	I-131*	3 L	INGE	3.00E+00	2.00E+01
	Cs-134	3 L	INGE	3.00E+00	1.00E+01
	Cs-137	3 L	INGE	3.00E+00	1.00E+01
	Ba-140	3 L	INGE	7.00E+00	6.00E+01

NUCLIDE	VOLUME	METHOD	STANDARD 1000 MIN (pCi/L)
I-131*	4 L	INGE/IX**	7.00E-01

	NUCLIDE	VOLUME	METHOD	STANDARD 100 MIN (pCi/L)
BETA	Sr-89	1 L	αß Cntr	7.00E-01
	Sr-90	1 L	αß Cntr	7.00E-01

FOOD

	NUCLIDE	MASS	METHOD	STANDARD 400 MIN (pCi/g)	PRIORITY 10 MIN (pCi/g)
GAMMA	I-131*	400 G	INGE	2.00E-02	1.00E-01
	Cs-134	400 G	INGE	2.00E-02	1.00E-01
	Cs-137	400 G	INGE	2.00E-02	1.00E-01

	NUCLIDE	MASS	METHOD	STANDARD 100 MIN (pCi/g)
BETA	Sr-89	600 G	αß Cntr	1.00E-03
	Sr-90	600 G	αß Cntr	1.00E-03

	NUCLIDE	MASS	METHOD	STANDARD 1000 MIN (pCi/g)
ALPHA	Nat-U	20 g	Alpha Spec	5.00E-03
	Ra-226	20 g	αß Cntr	5.00E-03***
	Th-230	20 g	Alpha Spec	5.00E-03
	Th-232	20 g	Alpha Spec	1.00E-03

* LLD calculated for a decay time of 3 days
** IX - Ion Exchange Resin Method.
*** Standard Counting Time - 100 minutes

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

VEGETATION

	NUCLIDE	MASS	METHOD	STANDARD 1000 MIN (pCi/g)*	PRIORITY 10 MIN (pCi/g)*
ALPHA	Nat-U	10 G	Alpha Spec	1.00E-02	1.00E-01
	Ra-226	10 G	αß Cntr	4.00E-03	4.00E-02
	Tot-Th	10 G	Alpha Spec	7.00E-03	7.00E-02
	Th-230	10 G	Alpha Spec	6.00E-03	6.00E-02
	Pu-238	10 G	Alpha Spec	2.00E-02	2.00E-01
	Pu-239/240	10 G	Alpha Spec	4.00E-03	4.00E-02
GAMMA	K-40	100 G	INGE	3.00E-01	3.00E+00
	Mn-54	100 G	INGE	4.00E-02	4.00E-01
	Co-60	100 G	INGE	4.00E-02	4.00E-01
	Zn-65	100 G	INGE	7.00E-02	7.00E-01
	Zr-95	100 G	INGE	7.00E-02	7.00E-01
	Ru-106	100 G	INGE	3.00E-01	3.00E+00
	Cs-137	100 G	INGE	4.00E-02	4.00E-01

AIR FILTER

	NUCLIDE	VOLUME	METHOD	STANDARD 400 MIN (pCi/m³)	PRIORITY 10 MIN (pCi/m³)
GAMMA	Be-7	450 m³	INGE	3.00E-02	2.00E-01
	Co-60	450 m³	INGE	4.00E-03	3.00E-02
	Ru-106	450 m³	INGE	3.00E-02	2.00E-01
	Cs-134	450 m³	INGE	4.00E-03	2.00E-02
	Cs-137	450 m³	INGE	3.00E-03	2.00E-02
	Ce-144	450 m³	INGE	2.00E-02	1.00E-01
ALPHA	Nat-U	1.4E+06 L	Alpha Spec	1.00E-07	8.00E-07
	Ra-226	1.4E+06 L	αß Cntr	4.00E-08	3.00E-07
	Th-230	1.4E+06 L	Alpha Spec	8.00E-08	5.00E-07

	NUCLIDE	VOLUME	METHOD	STANDARD 100 MIN (pCi/m³)	PRIORITY 20 MIN (pCi/m³)
GROSS	Beta	450 m³	αß Cntr	1.00E-03	2.00E-03
	Sr-90	1 filter	αß Cntr	1.00E-00**	
GAMMA	Be-7	5200 m³	INGE	8.00E-02	
	Cs-134	5200 m³	INGE	2.00E-03	
	Cs-137	5200 m³	INGE	1.00E-03	

* Wet Weight
** Units - pCi/filter

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

AIR CARTRIDGE

	NUCLIDE	VOLUME	METHOD	STANDARD 100 MIN (pCi/m³)	PRIORITY 10 MIN (pCi/m³)
GAMMA	I-131 *	450 m³	INGE	1.00E-02	2.00E-02

SHELLFISH

	NUCLIDE	MASS	METHOD	STANDARD 400 MIN (pCi/g)	PRIORITY 10 MIN (pCi/g)
GAMMA	Zn-65	400 G	INGE	3.00E-02	2.00E-01
	Zr-95	400 G	INGE	3.00E-02	2.00E-01
	Ru-106	400 G	INGE	1.00E-01	8.00E-01

WIPE

	NUCLIDE	VOLUME	METHOD	STANDARD 20 MIN (pCi/wipe)
GROSS	Alpha	Wipe	αß Cntr	5.00E-01
	Beta	Wipe	αß Cntr	1.00E+00
BETA	H-3	Wipe	Scintillation	3.20E+00
	Ni-63	Wipe	Scintillation	3.20E+00

* LLD calculated for a decay time of 3 days.

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

GAMMA ANALYSIS by
Sodium Iodide Detector

	NUCLIDE	VOLUME	STANDARD 400 MIN (pCi/unit)	PRIORITY 10 MIN (pCi/unit)
WATER				
	Cr-51	2 L	6.00E+01	4.00E+02
	Co-60	2 L	8.00E+00	5.00E+01
	Zn-65	2 L	1.60E+01	1.00E+02
	Ru-106	2 L	3.00E+01	2.00E+02
	I-131	2 L	7.00E+00	4.00E+01
	Cs-134	2 L	8.00E+00	5.00E+01
	Cs-137	2 L	8.00E+00	5.00E+01
MILK & FOOD				
	K-40	2 L	1.00E+02	6.50E+02
	I-131	2 L	7.00E+00	4.00E+01
	Cs-137	2 L	8.00E+00	5.00E+01
	Ba-140	2 L	7.00E+00	5.00E+01
SHELLFISH		MASS		
	K-40	400 G	5.00E-01	3.00E+00
	Zn-65	400 G	8.00E-01	5.00E-01
	Zr-95	400 G	3.00E-02	2.00E-01
	Ru-106	400 G	2.00E-01	1.00E+00

	NUCLIDE	MASS	STANDARD 1000 MIN (pCi/g)	PRIORITY 10 MIN (pCi/g)
SOIL/SED.				
	K-40	650 G	3.00E-01	3.00E+00
	Mn-54	650 G	2.00E-02	2.00E-01
	Co-60	650 G	2.00E-02	2.00E-01
	Zn-65	650 G	2.00E-02	2.00E-01
	Zr-95	650 G	5.00E-02	5.00E-01
	Ru-106	650 G	1.00E-01	1.00E+00
	Cs-137	650 G	2.00E-02	2.40E-01

APPENDIX H CONTINUED
ANALYTICAL LOWER LIMITS OF DETECTION

FORMULAS

A. Random Uncertainty

$$RU = 1.96((\text{gross sample cpm}/T_1) + (\text{BKG CPM}/T_2))^{1/2}/((E)(2.22)(V)(Y)(D))$$

B. Uncertainty (standard error) of the sample mean (U)

$$U = s/(n)^{1/2}$$

C. Lower Limit of Detection (LLD)

$$LLD = 4.66S/((2.22)(E)(V)(Y)(D))$$

D. Definitions

2.22	=	Conversion factor from dpm to picocuries
BKG	=	background counts per minute
D	=	decay factor = $e^{-(\ln 2/T1/2)(t)}$
LLD	=	the a priori determination of the smallest concentration of radioactive material sampled that has a 95 percent probability of being detected, with only five percent probability that a blank sample will yield a response interpreted to mean that radioactivity is present above the system background.
n	=	number of samples analyzed (number of data points).
RU	=	random uncertainty at the 95 percent confidence level (sometimes referred to as counting error)
s	=	sample standard deviation
S	=	one standard deviation of the background count rate (which equals $(BKG/T_2)^{1/2}$)
sample cpm	=	counts per minute of sample
t	=	elapsed time between sample collection and counting
T_1	=	sample count time
T_2	=	background count time
$T_{1/2}$	=	half-life of radionuclide counted
U	=	uncertainty (standard error) of the sample mean
V	=	volume in liters (or mass in grams) of sample
Y	=	fractional radiochemical yield (when applicable)

APPENDIX I

GLOSSARY

APPENDIX I

GLOSSARY

aquifer - Permeable geologic unit that can transmit significant quantities of water.

background radiation - Radiation in the natural environment, including cosmic rays from space and radiation from naturally occurring radioactive elements in the air, in the earth, and in our bodies. In the United States, the average person receives about 300 millirems (mrem) of background radiation per year.

baseline radiation - That level of radiation exposure in an area attributed to natural occurring radionuclides and ubiquitous manmade radionuclides from worldwide fallout from nuclear tests. The level from which changes are measured and compared.

becquerel (Bq) - Unit of activity equal to one nuclear transformation per second (1 Bq = 1/s). The conventional unit of activity, the curie, is related to the becquerel as 1 Ci - 3.7×10^{10} Bq.

boundary dose rate - Dose rate measured or calculated at publicly accessible locations on or near the Hanford Site.

composite sample - Sample formed by mixing discrete samples taken at different points in time or from different locations.

continuous sample - Sample formed by the continuous collection of the medium or contaminants within the medium during the entire sample period.

cosmic radiation - High-energy subatomic particles and electromagnetic radiation from outer space that bombard the earth. Cosmic radiation is part of natural background radiation.

Curie (Ci) - A unit of radioactivity equal to 37 billion (3.7×10^{10}) nuclear transformations per second.

decay - The decrease in the amount of any radioactive material in the passage of time, due to the spontaneous emission from the atomic nuclei of nucleons or either alpha or beta particles, often accompanied by gamma radiation. When a radioactive material decays, the material may be converted to another radioactive species (decay product) or to a nonradioactive material.

detection level - Minimum amount of a substance that can be measured with a 99% confidence that the analytical result is greater than zero.

dosimeter - Portable device for measuring the total accumulated exposure or absorbed dose from ionizing radiation fields.

Effective Dose Equivalent - An estimate of the total risk of potential health effects from radiation exposure. The effective dose is the

APPENDIX I CONTINUED
GLOSSARY

sum of the dose from internal deposition and external penetrating radiation received during a calendar year.

effluent - Liquid or gaseous waste streams released from a facility.

effluent monitoring - Sampling or measuring specific liquid or gaseous effluent streams for the presence of pollutants.

exposure - Subjecting a target (usually living tissue) to radiation or chemicals. Also used as a term describing external radiation air ionization (See "Roentgen").

fallout - Radioactive materials that are released into the earth's atmosphere following a nuclear explosion or atmospheric release and that eventually fall to earth.

fission - A nuclear reaction involving the splitting or breaking apart of a nucleus into at least two other nuclei, accompanied with a release of various types of energy. For example, when a heavy atom, such as uranium, is split, large amounts of energy including radiation and neutrons are released along with the new smaller nuclei (which are called fission products).

fission products - Elements formed from fissioning. Many fission products are radioactive.

grab sample - A sample that is randomly collected or "grabbed" from the collection site.

groundwater - Subsurface water that is in the pore spaces of soil and geologic units.

Gray (Gy) - Unit of absorbed dose in the International System of Units (SI) equal to 1 joule per kilogram. 1 Gy - 100 rad.

half-life - Length of time in which a radioactive substance will lose one-half of its radioactivity by decay. Half-lives range from a fraction of a second to billions of years and each radionuclide has a unique half-life. For example, ^{90}Sr and ^{137}Cs have half-lives of roughly 30 years. Others decay more slowly, such as ^{239}Pu with a half-life of 25,000 years.

isotopes - Different forms of the same chemical element that are distinguished by different numbers of neutrons in the nucleus. A single element may have many isotopes; some may be radioactive and some may be nonradioactive (stable). For example, the three isotopes of hydrogen are protium, deuterium and tritium. Only tritium is radioactive

lower limit of detection - Smallest amount or concentration of a radioactive or nonradioactive element that can be reliably detected in a sample.

maximally exposed individual - a hypothetical member of the public residing near a facility who, by virtue of location and living habits, could receive the highest possible radiation dose from radioactive effluents released from that facility.

APPENDIX I CONTINUED
GLOSSARY

mean - Average value of a series of measures.

The mean, $\overline{X}$, is computed as:

$$\overline{X}=\frac{1}{n}\sum_{i=1}^{n} X_i$$

where $\overline{X}_i$ is the ith measurement and n is the number of measurements.

millirem (mrem) - A unit of radiation dose equivalent that is equal to one one-thousandth (1/1000) of a rem.

plutonium - A heavy, radioactive, anthropogenic metallic element consisting of several isotopes. One important isotope is ^{239}Pu, which is produced by the irradiation of ^{238}U. Routine analysis cannot distinguish between the ^{239}Pu and ^{240}Pu isotopes; hence, the term $^{239,240}Pu$ as used in this report is symbolic of the presence of one or both of the isotopes in the analytical results.

quality assurance - the management process used to control and assure the quality of work performed.

radiation - The energy emitted in the form of rays or particles, such as those thrown off by transforming (disintegrating) atoms. For this report, radiation refers to ionizing types of radiation; not radiowaves, microwaves, radiant light, or other types of non-ionizing radiation. The ionizing rays or particles typically consist of alpha, beta, or gamma radiation.

- **alpha radiation** - Least penetrating type of radiation. Alpha radiation can be stopped by a sheet of paper or the outer dead layer of skin, and can cause biological damage only if sufficient quantities are emitted inside the body.

- **beta radiation** - One form of radiation emitted from a nucleus during radioactive decay. Beta radiation can be stopped by an inch of wood or a thin sheet of aluminum and may cause biological damage if a sufficient amount is internal, or occasionally external, to the body.

- **external radiation** - Radiation originating from a source outside the body.

- **gamma radiation** - Form of electromagnetic, high-energy radiation emitted from a nucleus. Gamma rays are essentially the same as x-rays. They require heavy shielding, such as concrete or steel, to be stopped and may cause biological damage when originating internally or externally to the body in sufficient amounts.

- **internal radiation** - Radiation originating from a source within the body as a result of the inhalation, ingestion, skin absorption or implantation of natural or anthropogenic radionuclides in body tissues (e.g., uranium dust in the

APPENDIX I CONTINUED
GLOSSARY

lungs, radioiodine in the thyroid).

radioactivity - Property possessed by some isotopes of elements of emitting radiation (such as alpha, beta or gamma rays) spontaneously in their decay process to stable element isotopes.

radionuclide - Radioactive atomic species or isotope of an element. There are several hundred known radionuclides, both anthropogenic and naturally occurring. Radionuclide and radioisotope are terms that are sometimes used interchangeably, although they are theoretically different terms.

radionuclide movement/migration - The movement of radionuclides, generally in a liquid form, through a soil column or permeable rock formation.

Rem - Acronym for roentgen equivalent man; a unit of dose equivalent that indicates the potential for impact on human cells.

risk - The probability that a detrimental health effect will occur.

Roentgen - Unit of x-ray or gamma radiation exposure in air, typically used for describing external radiation levels. An exposure of 1 roentgen (R) is approximately equal to 1-rem dose to human tissue.

Sievert (Sv) - Unit of dose equivalent in the International System of Units (SI) equal to 100 rem.

standard deviation - An indication of the dispersion of variability of a set of results around their average.

standard error of the mean - An indication of the dispersion or variability of an estimated mean from the average of other estimates of the same mean.

The standard error of $\overline{X}$ was computed as

$$SE=\sqrt{\frac{S^2}{n}}$$

where S^2, the variance of the n measurements, was computed as

$$S_M^2=\frac{1}{n-1}\sum_{i=1}^{n}\left(X_1-\overline{X}\right)^2$$

This estimate, S^2, includes the variance among the samples and the counting variance. The estimated S^2 may occasionally be less than the average counting variance.

thermoluminescent dosimeter (TLD) - A material that, after being exposed to beta and/or gamma radiation, emits light when processed and heated. The amount of light emitted is proportional to the amount of radiation (dose) to which the TLD has been exposed.

uranium - A naturally occurring radioactive element with the atomic number 92. The two principal naturally occurring isotopes are

APPENDIX I CONTINUED
GLOSSARY

the fissionable ^{235}U (.7% of natural uranium, and fertile ^{238}U (99.3% of natural uranium).

vadose zone - The region in a soil column extending from the soil surface to the water table.

water table - Theoretical surface represented by the elevation of water surfaces in wells penetrating only a short distance into the unconfined aquifer.