FIVE-YEAR REVIEW REPORT

United Nuclear Corporation
Ground Water Operable Unit
McKinley County, New Mexico

U.S. ENVIRONMENTAL PROTECTION AGENCY REGION VI
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TABLE OF CONTENTS

1.0 BACKGROUND ..... Page 1

1.1 INTRODUCTION ..... Page 1
1.2 REGULATORY BASIS FOR FIVE-YEAR REVIEW ..... Page 1
1.3 SITE LOCATION AND DESCRIPTION ..... Page 1
1.4 SITE HISTORY ..... Page 2
1.5 SITE HYDROGEOLOGY ..... Page 4
1.6 REMEDIAL GOALS AND OBJECTIVES ..... Page 5
1.7 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS ..... Page 6

2.0 REMEDIAL ACTIONS ..... Page 8

2.1 GENERAL ..... Page 8
2.2 GROUND WATER ..... Page 8
2.2.1 Southwest Alluvium ..... Page 8
2.2.2 Zone 3 ..... Page 9
2.2.3 Zone 1 ..... Page 10
2.3 SURFACE REMEDIATION ..... Page 10
2.4 SOURCE CONTROL ..... Page 10

3.0 PERFORMANCE EVALUATION ..... Page 12

3.1 EVALUATION OF SURFACE REMEDIATION ACTIVITIES ..... Page 12
3.2 EVALUATION OF PERFORMANCE OF GROUND WATER EXTRACTION SYSTEMS ..... Page 12
3.2.1 Southwest Alluvium ..... Page 13
3.2.2 Zone 3 ..... Page 16
3.2.3 Zone 1 ..... Page 18
3.3 LEACHING FROM TAILINGS PILE ..... Page 20

4.0 SUMMARY ..... Page 22

4.1 GENERAL ..... Page 22
4.2 SOUTHWEST ALLUVIUM ..... Page 22
4.3 ZONE 3 ..... Page 23
4.4 ZONE 1 ..... Page 24

5.0 RECOMMENDATIONS ..... Page 25

5.1 GENERAL ..... Page 25
5.2 SOUTHWEST ALLUVIUM ..... Page 25
5.3 ZONE 3 ..... Page 25
5.4 ZONE 1 ..... Page 26
5.5 STATEMENT ON PROTECTIVENESS ..... Page 27
5.6 NEXT FIVE YEAR REVIEW ..... Page 27

ABBREVIATIONS AND ACRONYMS

ARAR	Applicable or Relevant and Appropriate Requirement
ALARA	As Low As Reasonably Achievable
ACL	Alternate Concentration Limit
$CaCO_3$	Calcium Carbonate
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
Cl	Chloride
cm/sec	Centimeters Per Second
EPA	U.S. Environmental Protection Agency
FS	Feasibility Study
gpm	Gallons Per Minute
MCL	Maximum Concentration Limit
mg/l	Milligram(s) Per Liter
Mn	Manganese
MOU	Memorandum of Understanding
NMED	New Mexico Environment Department (formerly NMEID)
NMEID	New Mexico Environmental Improvement Division
NMWQA	New Mexico Water Quality Act
NO_3	Nitrate
NRC	U.S. Nuclear Regulatory Commission
NSP	Navajo Superfund Program
O&M	Operations and Maintenance
OU	Operable Unit
pCi/l	picoCurie(s) per liter
PRP	Potentially Responsible Party
RAP	Remedial Action Plan
RI	Remedial Investigation
ROD	Record of Decision
SO_4	Sulfate
TDS	Total Dissolved Solids
USFWS	U.S. Fish and Wildlife Service

1.0 BACKGROUND

1.1 INTRODUCTION

This report constitutes the five-year review for the United Nuclear Corporation (United Nuclear) Church Rock site. This review is organized to provide background information, including site location and description, history, and review of remedial objectives/actions and applicable or relevant and appropriate requirements (ARARs) as they are applied to cleanup levels. An evaluation of ground water extraction system performance as well as specific recommendations for future activities are provided in this review.

1.2 REGULATORY BASIS FOR FIVE-YEAR REVIEW

This review was conducted pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, (CERCLA) Section 121(c), NCP section 300.430(f)(4)(ii), Office of Solid Waste and Emergency Response (OSWER) Directive 9355.7-02 (May 23, 1991), OSWER Directive 9355.7-02A (July 26, 1994), and OSWER Directive 9355.7-03A (December 21, 1995).

Section 121 CERCLA requires that "*If the President (by U.S. Environmental Protection Agency [EPA] delegation) selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented.*" The CERCLA Section 121 requirement applies to remedial actions selected after the date of enactment of the Superfund Amendments and Reauthorization Act (October 16, 1986). The Record of Decision (ROD) for the United Nuclear Church Rock site was signed on September 30, 1988.

Section 300.430(f)(4)(ii) of the National Contingency Plan clarifies that five-year reviews will be conducted when "*hazardous substances, pollutants, or contaminants are remaining at the site above levels that allow unlimited use and unrestricted exposure.*"

The OSWER Directives provide guidance on conducting five year reviews.

1.3 SITE LOCATION AND DESCRIPTION

The United Nuclear Church Rock site is located approximately 17 miles northeast of Church Rock, McKinley County, New Mexico (Figure 1). United Nuclear operated the site as a uranium mill facility. The site includes an ore processing mill and a tailings disposal area, which cover about 25 and 100 acres, respectively (Figure 2). The tailings disposal area was subdivided by cross-dikes into three cells identified as the South cell, Central cell, and North cell. In addition, two soil borrow pits (Pits No. 1 and No. 2) were present in the Central Cell area. Borrow Pit No. 1 was used to dispose of tailings and Borrow Pit No. 2 was used to retain tailings liquids

The area around the site is sparsely populated and includes Indian Tribal Land as well as United Nuclear-owned property. The nearest residence is located approximately 1.5 miles northwest of the Section 2, the restricted area of the site.

1.4 SITE HISTORY

The United Nuclear uranium mill was granted a radioactive materials license by the State of New Mexico in May 1977, and operated from June 1977 to May 1982. The mill, designed to process 4,000 tons of ore per day, extracted uranium using a conventional crushing, grinding, and acid-leach solvent extraction method. Uranium ore processed at the site came from the Northeast Church Rock and the Old Church Rock mines. The average ore grade processed was approximately 0.12 percent uranium oxide. The milling of uranium ore produced an acidic slurry of ground waste rock and fluid (tailings) that was pumped to the tailings disposal area. An estimated 3.5 million tons of tailings were disposed in the tailings impoundments. In May 1982, United Nuclear announced the temporary closing of the Church Rock uranium mill because of depressed prices in the uranium market. The market did not recover and United Nuclear closed the facility permanently.

United Nuclear's Northeast Church Rock Mine operated from 1968 through 1982. To access the uranium ore in the deep formations, the mine had to be dewatered. Water from the Northeast Church Rock Mine was discharged to the northwest branch of Pipeline Arroyo at a location just north of the mine, as shown on Figure 3. Water was also discharged to the arroyo from a nearby mine operated by Quivira (formerly Kerr McGee). The discharge point for the Quivira Mine is also shown on Figure 3. Figure 4 shows that mine water was discharged to the arroyo from March 1969 through February 1986 at an average rate of approximately 3,000 gallons per minute (gpm). This discharge water saturated the previously unsaturated near-surface formations. Historical data indicate that, prior to mining and milling operations, a shallow ground water aquifer did not exist in the area.

In July 1979, the dam on the south tailings impoundment breached, releasing approximately 93 million gallons of tailings and contaminated water to the Rio Puerco. The dam was repaired shortly after its failure. Cleanup of the resultant spill was conducted in accordance with State and Federal agency criteria.

Regulatory authority for the site has included the State of New Mexico under the New Mexico Environment Department (NMED, formerly the New Mexico Environmental Improvement Division [NMEID]), the Nuclear Regulatory Commission (NRC) and the U.S. Environmental Protection Agency (EPA). The initial license for the site was granted by NMED in May 1977. At that time, New Mexico had agreement-state status and had authority to license the site. While under the jurisdiction of the NMED, United Nuclear was required to prepare a Ground Water Discharge Plan (November 1979) to prevent tailings seepage from contaminating ground water in the site vicinity.

The NMED ceded its licensing authority to the NRC in 1986 when it gave up agreement-state status. Since that time, the site has been under the jurisdiction of the NRC. The processes for reclamation and ground water corrective action were implemented beginning in 1986 under the NRC license. A draft reclamation plan was submitted in 1987 and the final plan was approved in March 1991.

NRC required that reclamation construction activities begin in 1988, three years prior to final approval of the reclamation plan. The ground water corrective action, as required under NRC regulations and in the License, was incorporated into the reclamation plan. The Corrective Action Plan (CAP) included cleanup standards for the site as determined by the NRC.

The EPA's involvement at the site began in 1981 when the site was proposed for listing on the NPL under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The site was placed on the NPL in 1983 because of seepage from the tailings and off-site migration of radiological and chemical constituents in the ground water. The EPA implemented a Remedial Investigation (RI) and Feasibility Study (FS) in March 1984 with the RI field activities being conducted from March 1984 through August 1985. The objectives of the RI field activities were to determine the nature and extent of ground water contamination in three shallow formations at the site: the Southwest alluvium, and Zone 1 and Zone 3 of the Upper Gallup Sandstone. Each shallow zone has very specific hydrogeological and hydrogeochemical characteristics associated with it.

On August 26, 1988, the EPA and NRC signed a Memorandum of Understanding (MOU) that provided for coordination of the NRC reclamation and ground water corrective action activities and the EPA remedial action. The intent of the MOU was to allow United Nuclear to proceed with reclamation and corrective action in a manner that addressed the needs of both the NRC and EPA with the NRC acting as the lead agency. The MOU recognized that the EPA would conduct a Remedial Investigation/Feasibility Study (RI/FS) and sign a Record of Decision (ROD) that addresses ground water contamination (excluding the by-product material at the disposal site) and that the NRC is the lead agency responsible for surface reclamation and source control. The EPA released the RI/FS in August 1988, along with a proposed plan of action fact sheet for the United Nuclear site ground water remediation.

The EPA selected extraction of contaminated water and evaporation of the extracted water as the remedy in the ROD that was signed on September 30, 1988. Both NMED and the Navajo Nation reviewed and commented on the ROD. The remedy incorporated the corrective action previously required by the NRC under the License and added a requirement for corrective action in the Southwest Alluvium. The NRC ground water CAP was subsequently amended to include corrective action for the Southwest Alluvium. The EPA's recommended cleanup standards for the ground water were presented in the ROD and were also incorporated into the NRC license.

Initial corrective action to address ground water concerns began with tailings seepage investigations and neutralization of the acidic tailings. These actions were performed from 1979 through 1982. Tailings neutralization included the addition of ammonia and lime to the tailings. The NMED also required that United Nuclear implement corrective action for ground water in the Zone 1 and Zone 3 formations. This corrective action, which began in 1982, consisted of installing and operating wells to extract tailings seepage, neutralizing the extracted water, and discharging the neutralized water into the tailings impoundment. The ground water corrective action required by the NRC license and the ROD was implemented beginning in 1989 and is the action which is the subject of this Five-Year Review Report. The corrective action included reclamation of the tailings impoundment area, which was essentially completed in 1996.

At the time of ROD approval, i.e., 1988, United Nuclear was performing reclamation and ground water corrective action activities as required by the NRC under the License including:

1. Performing compliance monitoring activities;
2. Installing an improved seepage collection system;
3. Providing dust control over the tailings disposal area;
4. Performing decontamination and sale of selected equipment; and
5. Building an enhanced spray evaporation system for disposal of pump-back water contained in Borrow Pit No. 2.

1.5 SITE HYDROGEOLOGY

The site is located in the Pipeline Canyon, an alluvial valley drained by the Pipeline Arroyo. The Site is situated on alluvial valley fill and sandstones and shales of the Cretaceous Age. The stratigraphic units identified in the site area, in descending order, are as follows:

- Southwest Alluvium
- Dilco Member of the Crevasse Canyon Formation
- Upper Gallup Sandstone divided into:
  - Zone 3, upper sandstone
  - Zone 2, shale and coal
  - Zone 1, lower sandstone
- Upper D-Cross Tongue Member of the Mancos Shale

The Southwest Alluvium, and Zone 3 and Zone 1 of the Gallup Sandstone are in direct contact with the tailings and/or tailings seepage. Structural features within the site have been identified from geophysical and lithological logs of wells drilled on the site. There is evidence of fracturing in three areas along the east and north sides of the borrow pits and two areas north and east of the North Cell of the tailings disposal area. Preferential flow paths typically develop along fracture zones as a result of the higher permeability compared to the surrounding rock matrix.

The Mancos shale acts as a boundary to prevent or retard the downward migration of ground water. It has a low permeability, and consists of a sandy shale. Lithological logs in the area indicate that the Mancos shale is approximately 130 feet thick in the site area.

The ground water operable unit (OU) consists of Southwest Alluvium, Zone 1, and Zone 3. The majority of the water present in these units in the vicinity of the site originated from the mine water that was discharged into Pipeline Arroyo beginning in 1969 and infiltrated into the alluvium and then into Zone 3 and Zone 1. This mine discharge water, which is the primary source of recharge to the formations in the site vicinity, is referred to as the post-mining, pre-tailings water in the ROD and is considered the background water for the site. Seepage from the tailings, which was deposited into the tailings disposal area beginning in 1977, then impacted this background water. Impacts from

the seepage have been observed in the alluvium southwest of the tailings impoundment (designated the Southwest Alluvium) and in Zone 3 and Zone 1 to the northeast and east of the impoundment.

Water in the Southwest Alluvium flows to the southwest along Pipeline Arroyo and recharges Zone 1 and Zone 3. Water in Zone 3 and Zone 1 flows to the northeast. Movement of the water in the alluvium is controlled by the presence of a bedrock high of Gallup Sandstone, designated the nickpoint, which acts like a dam and slows the movement of water. The nickpoint is shown on Figure 3.

Water levels in all three formations, caused by the infiltration of mine water and then seepage, reached their highest levels between 1977 and 1986 and have been steadily declining since the mine water discharge ceased in 1986. As of the end of 1996, the mine discharge water in the northern part of the alluvium, located approximately 2,800 feet north of the tailings disposal area, had all drained out as evidenced by the fact that the 600-Series wells (Wells 639, 642, 644 and 645) are all now dry (See Figure 2). Also, by year-end 1996, the extent of the saturation in Zone 3 and Zone 1 had decreased. This declining trend should continue as the mine discharge water continues to drain out from the site vicinity.

1.6 REMEDIAL GOALS AND OBJECTIVES

The overall objective of the remedial action is to contain, remove and evaporate contaminated ground water resulting from tailings seepage into the environment and to implement source control and onsite surface reclamation. In addition, the specific goal of the selected remedy is to restore ground water outside the tailings disposal area to concentrations dictated by Federal and State standards, or background, to the maximum extent practicable, and to the extent necessary to adequately protect public health and the environment.

The selected remedy in the ROD includes the following six components:

1. Implementation of a monitoring program to detect any increases in the areal extent or concentration of ground water contamination outside the tailings disposal area;

2. Operation of the existing seepage extraction system in the Upper Gallup Sandstone Unit (Zone 1, and Zone 3);

3. Containment and removal of contaminated ground water in Zone 3 of the Upper Gallup Sandstone utilizing existing and additional wells;

4. Containment and removal of contaminated ground water in the Southwest Alluvium utilizing existing and additional wells;

5. Evaporation of extracted ground water using evaporation ponds supplemented with mist or spray systems to enhance the rate of evaporation; and,

6. Implementation of a performance monitoring and evaluation program to determine water levels and contaminant reductions in each aquifer, and the extent and duration of pumping actually required outside the tailings disposal area.

1.7 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Section 121(d)(2)(A) of CERCLA incorporates into the law the CERCLA Compliance Policy, which specifies that Superfund remedial actions must meet any Federal standards, requirements, criteria, or limitations legally determined to be ARARs. Also included is the provision that State ARARs must be met if they are more stringent than Federal requirements. The ARARs evaluated include:

- *National Primary Drinking Water Standards;*
- *New Mexico Water Quality Control Commission Standards;*
- *Resource Conservation and Recovery Act Standards applicable to background; and,*
- *Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings* (40 Code of Federal Regulations [CFR] 192), as adopted by 10 CFR 40, Appendix A.

Contaminant-specific ground water ARARs presented in the ROD are shown in Table 1. At the time the ROD was written, it was recognized that additional investigation and determination of the natural NO_3-N sources would be necessary since NO_3-N is a health-related standard.

During the Remedial Design (RD), United Nuclear proposed a ground water monitoring plan to measure and monitor ground water quality. To establish the analytes to be monitored, United Nuclear examined the cleanup criteria from the ROD to check which analytes exceeded the above values. This examination showed that antimony, barium, beryllium, chromium, copper, iron, lead, mercury, silver, thallium, vanadium, zinc, Uranium-238, Thorium-230 were already below the ARARs set forth in the ROD (RD Table 1.1). Radium 226 and 228 combined only exceeded ARARs in Zone 3. NRC's ground water protection standards were exceeded for Zone 3 for all 15 analytes (See Table 1.2 of the RD). However some of these analytes, e.g., arsenic, were below NRC's protection standards for Zone 1 and the Southwest Alluvium.

By combining the exceedances in Table 1.1 and 1.2 of the RD, United Nuclear proposed a list of 29 performance monitoring analytes and the list was approved by EPA and NRC by the approval of the Remedial Design and Remedial Action Plan (RAP). Since the beginning of Remedial Action (RA) in 1989, United Nuclear has monitored the list of analytes in Table 1.3 of the RD. The 29 analytes were incorporated into NRC's license which is the primary instrument of the remedial action at United Nuclear's Church Rock site. Of the 29 analytes, cyanide and naphthalene were dropped in 1993 as these were not detected for more than four years. Some of the 29 analytes monitored by United Nuclear e.g., ammonia, sodium, potassium and bicarbonate are not listed in either of the tables but are monitored by United Nuclear for completeness of chemical understanding.

TABLE 1
CONTAMINANT-SPECIFIC GROUND WATER ARARs

CONTAMINANT	CONCENTRATION[a]	SOURCE
Aluminum	5.0	New Mexico Water Quality Act (NMWQA)
Antimony	0.014	Health-based
Arsenic	0.05	Maximum Concentration Limit (MCL)
Barium	1.0	MCL, NMWQA
Beryllium	0.017	Health-based
Cadmium	0.01	MCL, NMWQA
Chromium	0.05	MCL, NMWQA
Cobalt	0.05	NMWQA
Copper	1.0	NMWQA
Iron	5.5	Background Level
Lead	0.05	MCL, NMWQA
Manganese (Mn)	2.6	Background Level
Mercury	0.002	MCL, NMWQA
Molybdenum	1.0	NMWQA
Nickel	0.2	NMWQA
Selenium	0.01	MCL
Silver	0.05	MCL, NMWQA
Thallium	0.014	Health-based
Vanadium	0.7	Health-based
Zinc	10.0	NMWQA
Chloride (Cl)	250.0	NMWQA
Sulfate (SO_4)	2,160.0	Background Level
NO_3	30.0	Background Level
Total Dissolved Solids (TDS)	3,170.0	Background Level
Radium 226 and 228	5 pCi/l	MCL
Uranium-238	5.0 mg/l (1,645 pCi/l)	NMWQA
Thorium-230[b]	15 pCi/l	MCL
Gross Alpha	15 pCi/l	MCL

NOTES: a) In mg/l, except as noted.
b) Based on 15 pCi/l gross alpha.

2.0 REMEDIAL ACTIONS

2.1 GENERAL

Remedial actions in Zone 1 and Zone 3 seepage-impacted areas began in 1982 and 1984, respectively, with the installation and operation of pump-back wells as required by the NMED. These wells extracted 77 million gallons of contaminated ground water from 1983 to 1989. The extracted contaminated ground water was neutralized by the addition of lime and stored in Borrow Pit No. 2 that was lined with a one-foot thick layer of compacted clay. The remedial action also included the addition of lime to the tailings disposal cells to neutralize the tailings liquid and cause precipitation of metals.

Additional remedial actions were initiated in 1989 in accordance with the NRC-approved Reclamation Plan, as amended, and the Remedial Design and Remedial Action Plan approved by the EPA and NRC. The objectives of the amended Reclamation Plan and 1988 ROD were implemented by the following remedial action efforts.

2.2 GROUND WATER

The goal of the selected remedy at the site was to restore ground water outside the tailings disposal area to Federal and State standards, or background, to the maximum extent possible. The remedial action consisted of a ground water pump and evaporate system. However, in appendix A of the ROD, the contingencies of the selected remedy are stated in the following way ".. *However, operational results may demonstrate that it is technically impractical to achieve cleanup levels in a reasonable time period, and a waiver to meeting certain contaminant specific ARARs may require re-evaluation as a result. Operational results may also demonstrate significant declines in pumping rates with time due to insufficient natural recharge of the aquifers. The probability of significant reductions in saturated thickness of aquifers at the site must be considered during performance evaluations since much of the water underlying the tailings disposal area is the result of mine water and tailings discharge, both of which no longer occur. In the event the saturated thickness cease to support pumping, remedial activity would be discontinued or adjusted to appropriate levels*".

2.2.1 Southwest Alluvium

Ground water flow in the Southwest Alluvium is Northeast to Southwest. For the Southwest Alluvium, the remedial target area was defined by chloride concentration greater than 100 mg/l. The Remedial Action (RA) for the Southwest Alluvium consisted of four extraction wells comprising a barrier/collection system in the target area. The system was located approximately 400 feet downgradient from the southern edge of the South Cell of the tailings impoundment and upgradient of the four Point of Compliance (POC) wells designated by NRC for the Southwest Alluvium. Figure 5 shows the Southwest Alluvium ground water monitoring system.

The location, spacing, and pumping rates were designed to establish a hydraulic barrier to prevent further migration through the alluvium while the source was being remediated. In addition to the four extraction wells, four observation wells were installed directly under the tailings pile area of Southwest Alluvium, in the immediate vicinity of the extraction wells, to assess the performance of the pumping wells in establishing a barrier to the migration tailings seepage. In addition to the above, there are nine water quality and water level monitoring wells upgradient of the South Cell

tailings pile and five ground water monitoring wells downgradient of the POC wells (down gradient of the South Cell). Installation of all extraction and monitoring wells was completed by August 1991. Between 1989 and 1996, the extraction wells pumped out 95.9 million gallons of water. Source control was achieved by regrading and re-contouring the South Cell and installing low permeability soil cover over the South Tailings impoundment.

The Remedial Action (RA) in Southwest Alluvium was designed to be performance based, i.e. its success was to be measured against the criteria set forth in the ROD, specifically, its ability to create a hydraulic barrier to further migration of contamination while the source is being remediated, as well as its ability to meet clean up standards. However, the following factors were expected to influence the degree to which United Nuclear's RA was able to meet the cleanup standards.

1. Background values established by EPA and NRC may not reflect site conditions.

2. With time, dewatering may preclude operation of individual wells.

3. Performance monitoring may demonstrate that it is technically impractical to meet regulatory standards, despite reasonable expenditure of time and effort.

2.2.2 Zone 3

Ground water flow in Zone 3 is to the Northeast due to the dip of Zone 3 in that direction. For Zone 3, acidic pH and travel distance calculations were used to determine the extent of the target area. The source for the ground water contamination was the North Cell.

The purpose of the Zone 3 extraction wells is to create a hydraulic barrier to prevent further migration and to dewater the target area. The volume required to dewater the target area was estimated at 200 million gallons. Figure 6 shows the Zone 3 ground water monitoring system.

The Zone 3 extraction well system consists of the existing five Northeast Pump-back wells, twelve Stage I wells and seven Stage II wells. The existing Northeast Pump-back wells were installed and began operating in 1982 as required by the NMED. These wells were incorporated into the remedial action system required by the NRC and EPA. The Stage I wells were installed and began operating in 1989. The Stage II wells were added in 1991 to enhance the performance of the system because predicted declines in saturation were expected to reduce the productivity of the Stage I and Northeast Pump-back extraction systems.

The design for the remedial action systems included decommissioning criteria to allow shutdown of individual wells and/or the system if the efficiency of the wells declined to such a level that continued operation provided no benefit. Decommissioning - Condition 2 (Remedial Design Report) describes these decommissioning criteria, which are based on a minimum well productivity of 1 gpm. In summary, wells that produce less than 1 gpm will be cleaned and stimulated, and if the water level in the well is not sufficient to allow production of water in amounts greater than 1 gpm, the well will be decommissioned.

The decommissioning criteria were designed based on observed declines in saturation since 1986, observed declines in the efficiency of existing pumping wells since 1982, and the modeled

performance of the remedial action system. This information indicated that the Zone 3 wells would lose productivity quickly over the life of the project. As predicted, the saturation in Zone 3 has declined substantially. By 1993, ten of the extraction wells met the decommissioning criteria and, with the approval of NRC and EPA, were shut down. At the end of 1996, 15 Zone 3 wells were still operational. However, only seven of these wells pumped at rates greater than 1 gpm and these wells are all located downgradient of the target area. The remaining eight wells were producing at a rate less than 1 gpm and were meeting the decommissioning criteria.

2.2.3 Zone 1

Ground water flow in Zone 1 is toward the Northeast. For Zone 1, acidic pH and travel distance calculations were used to determine the extent of the target area. Figures 7 and 8 show the Zone 1 ground water monitoring system. The source for the ground water contamination was Borrow Pit No. 2 and the Central Cell.

Zone 1 is characterized by low transmissivity ($\leq$150 gal/day/ft), thus it can be pumped only at a very low rate. The extraction wells in the Zone 1 recovery system have a combined extraction pumping rate of 0.49 gpm.

For Zone 1, the remedial action consisted of dewatering Borrow Pit No. 2 and continuing to pump water from the existing east and north cross dike pump back wells until the pit is dewatered.

In June 1991, four decommissioned wells (620, 666, 669, and 670) were temporarily reactivated to implement an "As Low As Reasonably Achievable" (ALARA) demonstration program which was approved by EPA and NRC in July 1991. The four wells were chosen because of their relatively high productivity compared to other Zone 1 pumping wells. Between August and December 1991, these wells produced at an average rate of 5.6 gpm. These wells were to operate until the ALARA demonstration was approved. After the ALARA demonstration, the four wells were shut down. The ALARA demonstration showed that when the highest producing wells in Zone 1 were pumped, a cumulative rate of 4.93 gallons per minute of ground water was recovered. The data from the ALARA demonstration indicated that pumping in Zone 1 had little effect on remediating the seepage impacted water.

2.3 SURFACE REMEDIATION

The ROD discussion on the selected remedy states the following on page 41 "...*Upon approval of a final reclamation plan, both groundwater and source control/surface reclamation remedial actions will be integrated and coordinated to achieve comprehensive reclamation and remediation of the site*". Thus the following section discusses source control even though this comes under the purview of NRC's Source Material license.

2.4 SOURCE CONTROL

Source control measures include regrading and re-contouring the tailings, placing a low permeability compacted soil cover over the regraded tailings, and constructing drainage swales on top and around the perimeter of the reclaimed impoundment. The cover was placed in two stages with an initial interim cover of compacted soil followed by the final cover consisting of a compacted soil/rock matrix layer for erosion protection.

The source control measures were designed to provide the following characteristics:

1. Positive slope on the top of the covered impoundment that enhances drainage and minimizes ponding of water on the impoundment surface.

2. Low permeability cover [typically 10^{-7} centimeter per second (cm/sec)] that also enhances drainage and prevents infiltration of water.

3. Swales to divert and control surface water runoff and run-on to minimize ponding and erosion of the reclamation cover.

These attributes effectively minimize infiltration into the tailings thereby minimizing generation of seepage and mobilization of contaminants from the tailings.

Seepage collection from extraction wells continues to be evaporated in two 5-acre lined evaporation ponds and a spray evaporation system installed on the surface of the regraded and covered tailings. An evaporation mist system constructed on the interior berm between the two evaporation ponds enhances the disposal of the extracted water.

Reclamation of the South Cell began in 1991 with regrading and recontouring of the tailings and placement of the interim cover and was completed in 1996 with placement of the final cover. The interim cover consisted of 12 inches of compacted soil with average permeability measurements of $3x10^{-8}$ cm/sec. The final cover consists of an additional six inches of compacted soil and a six-inch soil/rock matrix layer for surface erosion protection. The area of the South Cell occupied by the evaporation pond will be reclaimed after the ground water corrective action is complete and the evaporation ponds are no longer needed.

The remediation of the North Cell (primary source of tailings seepage to Zone 3) began in 1989. The remediation consisted of regrading and re-contouring of the tailings area and placement of twelve inches of compacted soil cover. As in the case of the South Cell this measure eliminated direct contact of surface precipitation with tailings material and minimized future infiltration. Final reclamation of the North Cell was performed in 1993 and consisted of placing an additional six inches of compacted soil and a six-inch soil/rock matrix layer for surface erosion protection. Drainage swales on the North Cell maximize surface drainage from reclaimed tailings while controlling the velocity of surface run off to protect from excessive erosion.

Remediation of the Central Cell and Borrow Pit No. 2 (the source of seepage to Zone 1) began in 1989. The remediation consisted of dewatering Borrow Pit No. 2, which was completed in April 1989, regrading and recontouring the tailings, backfilling the borrow pit with debris from mill decommissioning, and placement of the interim and final soil covers. For the Central Cell, placement of the interim cover was completed in 1991 and the final cover was placed in 1994. Beginning in 1991, Borrow Pit No. 2 was backfilled with soil and materials generated from decommissioning the mill site. Backfilling was completed in 1994. Placement of the interim and final covers was completed in 1994 and 1995, respectively.

3.0 PERFORMANCE EVALUATION

United Nuclear has implemented the pump and treat remedy as per the approved Remedial Action Plan (RAP) and NRC Corrective Action Plan. However, the present method of ground water extraction and evaporation is making limited progress toward achieving compliance with ground water cleanup levels. In addition, NRC conducted a background ground water quality study in 1996.

3.1 EVALUATION OF SURFACE REMEDIATION ACTIVITIES

Surface reclamation at the Church Rock site has been performed in accordance with the United Nuclear reclamation plan approved by the NRC in Amendment 10, March 15, 1991, to License SUA-1474, and subsequently approved revisions. The criteria for surface reclamation are specified in 10 Code of Federal Regulations Part 40, Appendix A.

At this time, surface reclamation is complete, except for placement of the final radon barrier and erosion protection on the tailings piles which are occupied by the evaporation ponds. The evaporation ponds are part of the system required under the current ground water corrective action plan. Completion of surface reclamation will not take place until the evaporation ponds are removed.

3.2 EVALUATION OF PERFORMANCE OF GROUND WATER EXTRACTION SYSTEMS

The primary indicator of the effectiveness of the ground water treatment system is comparing the measured constituent concentrations to evaluate whether the actual concentrations have been reduced to levels below those set forth in the ROD. A secondary indicator of the effectiveness of the ground water treatment system is based on the mass of contaminants removed. A third indicator of the effectiveness of the ground water treatment system is based on the dewatering of the target areas. Because of the dissolution of naturally-occurring minerals in the Southwest Alluvium, Zone 3, and Zone 1 by the infiltrating water, the levels of some chemical constituents in the background water are elevated. As a result, although a large mass of contaminants has been removed by the extraction systems, the naturally occurring constituents within the formations have contributed to this mass as the background water continued to move through the formations. Consequently, an improvement in water quality has not been observed and is not expected to occur with continued pumping. However, as a result of the mine water continuing to drain out of the formations and/or the operation of the extraction wells, dewatering of the target areas has been fairly successful.

The transient nature and natural geochemistry of the ground water systems in the three units and their effect on water quality play a key role in the contribution of background water to mass extracted. It should be noted that future concentrations may be higher than current concentrations. Four factors may affect future concentrations of constituents, and therefore, the performance of ground water extraction systems. These include:

1. Present concentrations,
2. Relationships between sulfate, TDS and bicarbonate,
3. Changing (decreasing) saturated thickness within the three formations, and

4. Changing saturation levels for minerals related to changing (decreasing) saturated thickness in the three formations.

Recognition of the transient nature and natural geochemistry of the ground water system at the site has been qualitatively incorporated into the following performance evaluation of this five-year review.

To evaluate the performance of the ground water extraction systems, distributions of NO_3, SO_4, and TDS in ground water samples were evaluated for 1989 through 1996, in the Southwest Alluvium, Zone 3, and Zone 1. Emphasis was placed on NO_3, SO_4, and TDS because these are the main analytes of non compliance in the ground water. The standards for NO_3, SO_4, and TDS were based on background concentrations utilized in the ROD. In addition, the radionuclides and metals were also evaluated to determine their compliance with the clean-up criteria.

3.2.1 Southwest Alluvium

Between 1989 and 1996, 95.9 million gallons of ground water were extracted from the Southwest Alluvium. Approximately 2,366,300 pounds of SO_4 and 63,600 pounds of NO_3 were removed in the extracted ground water. Even though, a significant mass of contaminants was removed from the Southwest Alluvium, water quality is improving only slowly in the target area in the Southwest Alluvium. Chemical results for ground water monitoring wells in the Southwest Alluvium are presented in Appendix A of this report. Ground water monitoring wells 632, 801, 802, 803 EPA 28, GW 01, GW 02, and GW 03 showed no noticeable improvement in water quality towards reaching cleanup levels. In addition, some ground water monitoring wells located upgradient of the impoundment had higher levels of NO_3 and SO_4 than some monitoring wells in the seepage impacted area. Monitoring wells located west of the Pipeline Canyon Arroyo, off-gradient of the tailings disposal area, have increasing concentrations of NO_3 and SO_4, suggesting that background water quality is influenced by natural mineralization. Improvement of water quality in the target area is also limited by equilibration of infiltrated mine waters and tailings seepage with natural mineralization in the Southwest Alluvium.

To investigate the effectiveness of the ground water extraction system, NO_3, SO_4, and TDS distributions were evaluated for the period between 1989 and 1996. Table 2 illustrates which ground water monitoring well locations in the Southwest Alluvium have concentrations which meet levels specified in the ROD for samples collected in 1996 for NO_3, SO_4, and TDS.

TABLE 2
Southwest Alluvium Concentrations Which Met EPA ROD Levels in 1996

Monitoring Well Location	NO_3 Concentration Below ARAR Level During 1996 Sampling	SO_4 Concentration Below ARAR Level During 1996 Sampling	TDS Concentration Below ARAR Level During 1996 Sampling
509D -- Upgradient			
EPA 22A -- Upgradient	✓	✓	✓
EPA 23 -- Upgradient			
GW 4 -- Upgradient		✓	
632 -- Target Area	✓		
801 -- Target Area	✓		
802 -- Target Area			
803 -- Target Area	✓		
EPA 28 -- Target Area			
GW 1 -- Target Area		✓	
GW 2 -- Target Area	✓		
GW 3 -- Target Area		✓	
624 -- Downgradient			
627 -- Downgradient			
EPA 25 -- Downgradient		✓	
EPA 27 -- Downgradient		✓	

The NO_3 concentrations increased between 1989 and 1996 in downgradient background well EPA 25 but decreased slightly in 624 and EPA 27. Closer to the tailings, NO_3 concentrations decreased in extraction wells 801, 632, and 802. Upgradient of the tailings, wells 509D and EPA 22A showed increases in NO_3 concentration, whereas GW04 showed decreases in concentrations. The remaining ground water monitoring wells in the Southwest Alluvium, particularly the upgradient wells located closest to the point of mine water discharge (the source of recharge for the shallow water at the site), have become de-saturated. In the target area, NO_3 concentrations have decreased between 1989 and 1996. Therefore, the ground water treatment has reduced the NO_3 levels in the target area. However, the NO_3 levels are still above the required clean-up level of 30.0 mg/l.

These observations suggest that concentrations of NO_3 are not closely related to tailings seepage. The United Nuclear background study indicated that the alluvium contains naturally occurring NO_3. Therefore, concentrations of NO_3 are likely related to dissolution of NO_3 salts along Pipeline Canyon

Arroyo by infiltrating mine water discharge. The ground water monitoring results indicate that over time there may be a trend for the NO_3 concentrations in samples upgradient of the target area to be higher than the concentrations in the target area itself.

The SO_4 concentrations exceed the required ARAR level of 2,160 mg/l in the majority of the monitoring wells in the target area. The SO_4 concentrations have improved in some areas of the target zone, but have also become higher in other areas. In 1996, SO_4 concentrations in ground water monitoring wells 22A, EPA 25, EPA 27, GW3, and GW4 were below the required level of 2,160 mg/l. In general, there is no clear trend for the SO_4 concentrations. There is not any pronounced improvement in the SO_4 concentrations across the entire target area.

The TDS concentrations exceed the required ARAR level of 3,170 mg/l in the majority of the monitoring wells in the target area. In 1996, the TDS concentrations for ground water monitoring well 22A were below the required level of 3,170 mg/l. The TDS concentrations have improved in some areas of the target zone, but have also become higher in other areas. Between 1989 and 1996, concentrations of these constituents increased slightly in down gradient and background wells 627, EPA 25, and EPA 28, but decreased slightly in the remaining down gradient and background wells. The high concentrations of TDS at the extraction wells did not spread down gradient during this period. There is no clear trend for the TDS concentrations. Overall there is not any pronounced improvement in the TDS concentrations.

Non compliance for heavy metals and radionuclides were fairly minor for the Southwest Alluvium in 1996. The specific exceedances are listed below in Table 3.

Monitoring Well 801 is currently pumping at a rate of only 0.1 gallons per minute (gpm) and has met the decommissioning criteria since 1990. This well accounts for only 0.5 percent of the system production and a lesser percentage of the mass extracted. Because the saturation created by the mine water discharge is draining out, Well 801 is no longer located within the main alluvial flow path in the Southwest Alluvium and has a minimal effect on the treatment system.

In general, the treatment system is providing an adequate barrier to preventing ground water in the target treatment areas from moving down gradient. However, even with the extended operation of the ground water extraction system, there is no substantial trend toward meeting present cleanup levels in the target areas in the Southwest Alluvium in the near future. The levels in the target area for NO_3, SO_4, and TDS have shown little change over time. The concentrations of NO_3, SO_4, and TDS have increased slightly upgradient and west of the Pipeline Canyon Arroyo. Increases in levels of constituents outside target areas in the Southwest Alluvium are probably related to infiltrated mine water coming into equilibrium with naturally-occurring minerals in the stratigraphic profile.

TABLE 3
Southwest Alluvium Concentrations for Radionuclides and Metals

Constituent	Well Location	Date of Exceedance	Regulatory Limit	Concentration
Pb-210	509D	January 1996	1.0 pCi/l	1.5 pCi/l
Pb-210	803	January 1996	1.0 pCi/l	1.5 pCi/l
Pb-210	627	January 1996	1.0 pCi/l	2.4 pCi/l
Selenium	632	July 1996	0.01 mg/l	0.012 mg/l
Pb-210	801	January 1996	1.0 pCi/l	3.1 pCi/l
Pb-210	801	April 1996	1.0 pCi/l	2.9 pCi/l
Manganese	801	January 1996	2.6 mg/l	18.6 mg/l
Manganese	801	April 1996	2.6 mg/l	17.0 mg/l
Manganese	801	July 1996	2.6 mg/l	19.5 mg/l
Pb-210	802	January 1996	1.0 pCi/l	3.6 pCi/l
Pb-210	EPA 23	January 1996	1.0 pCi/l	1.9 pCi/l
Manganese	EPA 23	January 1996	2.6 mg/l	3.40 mg/l
Manganese	EPA 23	April 1996	2.6 mg/l	3.29 mg/l
Manganese	EPA 23	July 1996	2.6 mg/l	4.20 mg/l
Selenium	EPA 27	January 1996	0.01 mg/l	0.038 mg/l
Pb-210	GW 2	January 1996	1.0 pCi/l	2.4 pCi/l

3.2.2 Zone 3

Between 1989 and 1996, 126.5 million gallons of ground water were extracted from the Zone 3. An additional 53 million gallons of ground water were extracted during the seven-year period from 1982 to 1989 by the Northeast Pump-back system. Approximately 1,226,400 pounds of SO_4 and 14,400 pounds of NO_3 were removed in the extracted ground water since 1989. Even though this significant mass of contaminants was removed from the Zone 3, water quality improvement is very slow in the target area. It appears that a substantial portion of the chemical mass that was extracted in the ground water treatment system may be attributed to the acid pH plume dissolving minerals in the aquifer matrix.

Chemical analytical results for ground water monitoring wells in Zone 3 are presented in Appendix B of this report. Ground water monitoring wells 502B, 517, 518, EPA 09, and EPA 13 showed no noticeable improvement in water quality towards reaching cleanup levels. Table 4 illustrates which

ground water monitoring well locations in Zone 3 have concentrations which meet levels specified in the ROD for samples collected in 1996.

TABLE 4
Zone 3 Concentrations Which Met EPA ROD Levels in 1996

Monitoring Well Location	NO_3 Concentration Below ARAR Level During 1996 Sampling	SO_4 Concentration Below ARAR Level During 1996 Sampling	TDS Concentration Below ARAR Level During 1996 Sampling
502 B -- Target Area	✓		
517 -- Target Area	✓		
518 -- Target Area	✓		
EPA 09 -- Target Area	✓		
EPA 13 -- Target Area	✓		
411 -- Downgradient	✓		
420 -- Downgradient	✓	✓	✓
504 B -- Downgradient	✓		
EPA 01 -- Downgradient	✓		
EPA 14 -- Downgradient	✓		

To investigate the effectiveness of the ground water extraction system, NO_3, SO_4, and TDS distributions were evaluated for the period between 1989 and 1996. The NO_3 concentrations have improved between 1989 and 1996, with NO_3 concentrations in the target area of the plume decreasing to below the required cleanup level of 30.0 mg/l in all of the ground water monitoring wells in 1996.

The SO_4 concentrations exceed the required ARAR level of 2,160 mg/l in every monitoring well in the target area. The SO_4 concentrations have improved in some areas of the target zone, but have also become higher in other areas. The plume of high concentrations in the vicinity of monitor well 518 (adjacent to the north cell) was generally decreasing until 1993, but has been increasing since then. In addition, concentrations have increased to the north of this well. The probable cause for decreasing concentrations in EPA 14 is due to alluvial recharge entering Zone 3 in the vicinity of extraction wells 714 and 715. In general, there is no clear trend for the SO_4 concentrations; however, overall there is not any pronounced improvement in the SO_4 concentrations in Zone 3.

The TDS concentrations exceed the required ARAR level of 3,170 mg/l in every monitoring well in the target area. The TDS concentrations have improved in some areas of the target zone, but have also become higher in other areas. The plume of high concentrations in the vicinity of monitor well 518 (adjacent to the north cell) has dissipated somewhat, but concentrations have increased toward the northeast of this well. In general, there is no clear trend for the TDS concentrations. Overall there is not any pronounced improvement in the TDS concentrations in Zone 3.

Non compliance for heavy metals and radionuclides were problematic in Zone 3. All of the ground water monitoring wells had exceedances of ROD levels for the metals and radionuclides in 1996.

In general, contaminants in Zone 3 have become dispersed over a larger area, resulting in higher concentrations along the edges of the plume and lower concentrations in the center of the plume. Downgradient ground water extraction wells may have aided the northward (downgradient) migration of NO_3, SO_4, and TDS.

3.2.3 Zone 1

The existing East and North Cross-Dike Pump-back systems operated from 1984 to 1990. These systems were then replaced by the Revised East Pump-back system, which is currently operating. The pump-back systems were designed to intercept seepage from Borrow Pit No. 2. However the pumping had a limited effect in controlling and capturing the seepage plume due to low hydraulic conductivity of the zone. Currently three pump-back wells (615, 616 and 617) operate at a total combined flow rate of 0.49 gpm. EPA 7 has plugged up and is unable to extract ground water. It has been utilized as a ground water monitoring well since October 1994. The three extraction wells mentioned above operate less than one hour per day due to low inflow to the wells.

The center of seepage characterized by a pH of less than 5 has shrunk so that this contour extends out into Section 1 only to approximately 70 feet. The transition area has average pH greater than 6. Well 516 A in the transition area had a pH of 4.2 and bicarbonate value of 0 mg/l in 1989. In 1996, the same well had a pH of 6.1 and bicarbonate value of 1,309 mg/l. These results indicate that the combination of slow ground water movement, the buffering capacity of the background water, and buffering capacity of the formation is buffering the acidic plume in Zone 1. The down gradient area represented by wells EPA 2, 4, 8, and 619 probably represents water quality unaffected by tailings leachate. The average pH in this area in 1996 is 6.7. Calculations based on flow rate of 50 ft/yr indicate that waters from SW Alluvium/Zone 1 contact would take 56 years to reach the down gradient area described above.

Due to the low hydraulic conductivity in Zone 1, as denoted by pumping capacity of 0.49 gpd, continued pumping is unlikely to eliminate much of the remaining tailings seepage water and improve water quality to approach ROD cleanup standards.

Between 1989 and 1996, 9.5 million gallons of ground water was extracted from Zone 1. During this period approximately 362,000 pounds of SO_4 and 4,440 pounds of NO_3 were removed from the ground water. Even though a significant mass of contaminants was removed from Zone 1, water quality improvement is very slow in the target area. It appears that a substantial portion of the chemical mass that was extracted in the ground water treatment system may be attributed to the acid pH plume dissolving minerals in the aquifer matrix.

Chemical analytical results for ground water monitoring wells in Zone 1 are presented in Appendix C of this report. Ground water monitoring wells 515A, 516A, 604, 614, 619, EPA 04, EPA 05, EPA 07, and EPA 08 showed no noticeable improvement in water quality towards reaching cleanup levels. Table 5 illustrates which ground water monitoring well locations in Zone 1 have concentrations which meet levels specified in the ROD for samples collected in 1996.

TABLE 5
Zone 1 Concentrations Which Met EPA ROD Levels in 1996

Monitoring Well Location	NO_3 Concentration Below ARAR Level During 1996 Sampling	SO_4 Concentration Below ARAR Level During 1996 Sampling	TDS Concentration Below ARAR Level During 1996 Sampling
614 -- Upgradient			
515 A -- Target Area			
516 A -- Target Area			
604 -- Target Area			
EPA 7 -- Target Area			
141 -- Downgradient	✔	✔	✔
142 -- Downgradient	✔	✔	✔
143 -- Downgradient	✔	✔	✔
619 -- Downgradient	✔		
EPA 2 -- Downgradient	✔	✔	✔
EPA 4 -- Downgradient	✔		
EPA 5 -- Downgradient			
EPA 8 -- Downgradient	✔		

To investigate the effectiveness of the ground water extraction system, NO_3, SO_4, and TDS distributions were evaluated for the period between 1989 and 1996.

The NO_3 concentrations for seven of the eight down gradient wells are below the required cleanup level of 30.0 mg/l in the ground water monitoring wells in 1996. Down gradient ground water monitoring well EPA 5 is the only well which is routinely exceeding the limit. All of the target area and upgradient ground water monitoring wells exceed the NO_3 concentration limit. The concentrations in the wells with exceedances has either remained fairly constant over the past six years or has increased.

The SO_4 concentrations exceed the required ARAR level of 2,160 mg/l in nine of the thirteen ground water monitoring wells in Zone 1 in 1996, including the four downgradient wells. The SO_4 concentrations have improved in some areas, have remained relatively constant in other areas, but have also become higher in some locations. In general, there is not any pronounced improvement

in the SO_4 concentrations in Zone 1.

The TDS concentrations exceed the required ARAR level of 3,170 mg/l in nine of the thirteen ground water monitoring wells in Zone 1 in 1996, including the four downgradient wells. The TDS concentrations have improved in some areas of the target zone, have remained relatively constant in some wells, but have also become higher in some locations. In general, there is not any pronounced improvement in the TDS concentrations in Zone 1.

Non compliance for heavy metals and radionuclides were problematic for the majority of ground water monitoring wells in Zone 1. Ground water monitoring wells 141, 142, 143, and EPA 2, did not have any exceedances in 1996. These four wells are located downgradient of the target area. The remaining ground water monitoring wells had significant exceedances for metals and radionuclides. These exceedances are also evident in Wells EPA 4, EPA 8 and 619, downgradient background wells that have not been affected by seepage. The exceedances in these wells indicate that these constituents have a tendency to be naturally elevated in the background water.

In general, the extraction recovery system in Zone 1 has such low pumping rates that there is no substantial trend toward meeting present cleanup levels in the target areas in the near future.

3.3 LEACHING FROM TAILINGS PILE

Ground water extraction must continue if seepage from the disposal cell will continue to cause ground water cleanup levels to be exceeded. Residual moisture will drain from the tailings at a decreasing rate until equilibrium between moisture flux through the cover and moisture flux leaving the disposal cell is established. As conditions approach equilibrium, the moisture flux leaving the disposal cell will become negligible. The period during which this occurs is that of transient drainage, and was assessed using an unsaturated flow model. A preliminary analysis of transient drainage was performed using site-specific values for porosity and moisture content. Other properties were inferred from the Falls City, Texas, and Maybell, Colorado, UMTRA sites, for which similar calculations have been performed (UMTRA Project Calculations FCT-12-89-02-01-00 and MAY-03-96-12-05-00). Cover flux was estimated using the program HELP (EPA, 1994: *The Hydrologic Evaluation of Landfill Performance (HELP) Model.* EPA/600/R-94/168a, September, 1994), and the bottom of the pile was assumed to drain freely into the underlying formations. When the calculations were performed, a total cell area of approximately 150 acres was utilized. The actual total cell area is approximately 100 acres. The resulting calculated values should therefore be more conservative than actual values.

Results of these calculations suggest that transient drainage is nearly complete, with present seepage rates from the tailings of 1×10^{-7} cm/sec or less. This corresponds to a total flux of 14,060 gallons/day (5,790 gallons/day from the South Cell, 6,470 gallons/day from the Central Cell, and 1,800 gallons/day from the North Cell). These values are upper limits, based on a conservative estimate of the flux through the cover of 1×10^{-7} cm/sec. The actual flux through the cover may be as low as 4×10^{-9} cm/sec, but equilibrium between this flux and the seepage rate would require 100 years or more to be established. Transient drainage of low pH tailings fluids may continue to be a problem, however, in areas such as Zone 1 and Zone 3 that lack significant buffering capacity for metals and radionuclides.

The final cover will have a permeability of 10^{7} cm/sec. NRC requires 90 percent compaction before final covers can be put on the tailings pile. To this effect United Nuclear was required to put in nine

settlement markers to measure compaction in the covered tailings pile. According to a inspection report by NRC in January 1995, settlement versus log time plots appear to indicate that 90 percent compaction has already been reached after 130 days of the placement of the interim cover. In addition prior to placement of the interim cover, the moisture content of the tailings were very low. Thus it would be reasonable to estimate that leaching from the tailings pile would not be significant, since the tailings were already dry at the time of placement of the cover, and the tailings under cover have been compacted in excess of 90%, and since the final cover has a permeability of 10^{-7} cm/sec. The HELP model provides the leaching rate possibly prior to compaction and thus can be thought of as an upper bound.

4.0 SUMMARY

After reviewing the data generated from 1989 to 1997, the following summary can be made.

- The site is not located in a heavily populated area.
- There are no known human drinking water supply wells located in the three ground water aquifers immediately downgradient of the site.
- The water production rates are typically very low for Zone 1 and Zone 3.
- Ground water flow in the three shallow aquifers is as follows:
  Southwest Alluvium is to the southwest
  Zone 3 is to the northeast
  Zone 1 is to the northeast.

4.1 GENERAL

At the start of the remedial action in 1989, the clean up standards set up in the ROD were exceeded by NO_3, SO_4, and TDS in the Southwest Alluvium, with most of the radionuclides e.g. uranium, thorium, and radium being close to the ROD/NRC license standards. However, the ROD standards were fairly close for NO_3 in Zone 1 and Zone 3, but the ROD/NRC license standards were exceeded for the radio nuclides and heavy metals, e.g. selenium, molybdenum.

After more than six years of remedial activities, the primary effects of the remedial action systems are removal of contaminant mass, dewatering of the target areas, and natural dissipation of the saturation created by mine water discharge. Reduction of contaminant levels to the EPA- and NRC-mandated levels has not been achieved, in part because of the contribution of the background water to the mass of contaminants to be removed. Also, the impacts of the remedial actions are different in the three formations because the hydrogeological conditions are different in each. Thus, future alternatives need to be specific to the hydrogeologic unit.

The three aquifers have responded differently to mine water recharge and invasion of the seepage plume because they have different hydrogeological and mineralogical characteristics. The differences are primarily reflected in the cation exchange capacity and neutralization capacity. The Southwest Alluvium has a high cation exchange capacity; therefore, the cleanup standards set forth in the ROD were rarely exceeded by heavy metals and radionuclides. In contrast, Zone 1 and Zone 3 have low cation exchange capacity, therefore the standards were more profoundly exceeded. However, the background concentrations of nitrate, sulfate and TDS in the three aquifers are mainly controlled by the distance from the axial of the Pipeline Arroyo and residence time of the recharge water in the alluvium. Thus, the background concentrations of nitrate, sulfate and TDS in Zone 1 and Zone 3 are closely related to those in Southwest Alluvium.

4.2 SOUTHWEST ALLUVIUM

In general, the treatment system is providing an adequate barrier to preventing ground water in the target treatment areas from moving downgradient. However, even with the extended operation of

the ground water extraction system, there is no substantial trend toward meeting present cleanup levels in the target areas in the Southwest Alluvium in the near future. The levels in the target area for NO_3, SO_4, and TDS have shown little change over time. The concentrations of NO_3, SO_4, and TDS have increased slightly in wells located outside the target area, upgradient and west of the Pipeline Canyon Arroyo. Increases in levels of constituents outside target areas in the Southwest Alluvium are probably related to infiltrated mine water coming into equilibrium with naturally-occurring minerals in the stratigraphic profile.

Examination of individual ground water monitoring well data indicate that the present cleanup standards cannot be met in a reasonable time frame with the current process. As stated earlier, the cleanup criteria for radionuclides and heavy metals are being met at the POC wells. Also the water quality of the major portion of the seepage impacted area has comparable water quality to that of the upgradient area with respect to the Southwest Alluvium. The rate of transient drainage from the covered South Cell tailings pile was estimated to be a maximum of 5,790 gallons/day. Results of model calculations suggest that transient drainage is nearly complete, with present seepage rates estimated to be $1x10^{-7}$ cm/sec or less. Thus further contamination of the Southwest Alluvium by the tailings leachate is considered negligible.

Monitoring Well 801 pumps at a rate of only 0.1 gpm and has met the decommissioning criteria since 1990. Therefore, the continued operation of this well provides almost no benefit in terms of remediating the target area and reducing constituent concentrations.

Figure 9 shows that a maximum of 10 housing units can be affected by the southwest flowing ground water in the Southwest Alluvium.

It appears that the Southwest Alluvium is approaching one of the scenarios stated in the ROD. Specifically, that clean-up levels can not be reached in a reasonable timeframe.

4.3 ZONE 3

Zone 3 flows to the northeast and had concentrations slightly higher than the cleanup standards for NO_3, SO_4, and TDS at the beginning of remedial action. However radium, gross alpha and heavy metals e.g. arsenic, cadmium, cobalt, molybdenum, nickel and selenium exceeded EPA standards. By the end of 1996, more than 50% of the ground water monitoring wells in Zone 3 were dry.

Three of the five POC wells have gone dry. The remaining POC wells show that NO_3 concentrations are below the required levels. However the heavy metals, e.g., cobalt, manganese, nickel, radium, lead-210, and gross alpha still exceed the ROD/NRC license standards. Continued extraction and evaporation is unlikely to reduce the concentration of the radio nuclides and heavy metals. The HELP model estimated a maximum of 1,800 gallons/day of transient drainage from the North tailings pile into Zone 3. Results of model calculations suggest that transient drainage is nearly complete, with present seepage rates estimated to be $1x10^{-7}$ cm/sec or less. Thus drainage from tailings pile has been insignificant for some time.

Operation of the Zone 3 extraction system has successfully dewatered the target area. However, because of the limited saturation remaining, continued operation of the system will probably not provide significant benefit in terms of further dewatering of the target area. The only wells in the system with sufficient saturation to continue operating are located downgradient of the target area. As a result, the seepage-impacted water is being pulled downgradient. The benefit realized from

continued dewatering of the target area no longer outweighs the negative impact of downgradient migration of the seepage impacted water.

The extraction system in Zone 3 has eight extraction wells which are operating at pumping rates below 0.75 gpm. With these low extraction rates, these wells are not providing an effective hydraulic barrier for the prevention of contaminant migration.

Figure 9 shows 4 housing units which can be affected by the flow in Zone 3. Sixteen other housing units are located on the northwest side of the Pipeline Arroyo and are not likely to be affected by flow in Zone 3.

The ROD explicitly anticipated conditions that have occurred in Zone 3 and recommended that remedial activity would be discontinued or adjusted to appropriate levels.

4.4 ZONE 1

The ground water flow in Zone 1 is to the northeast. A major component of the contamination in Zone 1 is due to seepage from Borrow Pit No. 2. The source of contamination has been eliminated by the dewatering and closure of Borrow Pit No. 2. Currently only three pump back wells are operating to intercept seepage that originated from Borrow Pit No. 2. The three pump back wells operate at a combined rate of less than 0.5gpm. These wells operate for one hour per day due to low inflow. The center of seepage characterized by a pH of less than 5 has shrunk so that this contour projects only 70 feet into Section 1.

Zone 1 is characterized by exceedances of manganese, cobalt, nickel and combined radium in addition to nitrate, sulfate and TDS. However there is only a very slight chance of being able to extract contaminated water due to the extremely low transmissivity in Zone 1.

There are no houses to the east in Section 1 within a 2 mile radius. Based on 50 ft/yr movement rate for the contamination it will take 200 + years for the contamination to reach the 2 mile radius.

This zone may have reached the conditions anticipated in the ROD.

5.0 RECOMMENDATIONS

After reviewing the data generated from 1989 to 1997, the following recommendations are made.

5.1 GENERAL

- Each unit (Southwest Alluvium, Zone 1, and Zone 3) needs to be assessed independently. Each unit has certain specific hydrogeological and hydro-geochemical parameters which are different and separate from the others.

- The natural background concentrations for TDS, NO_3, and SO_4 appear to be higher than the levels which were stated in the EPA ROD. As such, the action levels need to be re-evaluated and increased to reflect actual background values.

- A statistical analysis needs to be performed on the heavy metals and radionuclides to determine if concentrations are occurring at levels above those that occur naturally in the background.

- A revised ground water monitoring network, and the associated sampling procedures, must be developed to ensure that ground water conditions are accurately depicted and any statistical increases in concentrations are detected.

5.2 SOUTHWEST ALLUVIUM

- The ground water recovery system in the Southwest Alluvium is providing an adequate barrier to contaminant migration. However, little progress has been made toward reaching the cleanup levels in the EPA ROD/NRC license for NO_3, SO_4, and TDS. The measured concentrations of these constituents have shown little change over time. It is therefore recommended that United Nuclear apply for alternate concentration levels for the Southwest Alluvium. However, if United Nuclear determines that a Technical Impracticability Waiver (TI Waiver) or ALARA demonstration is more appropriate, then United Nuclear may pursue these options as well.

- Once the alternate concentration levels have been reached, or the TI waiver is granted, or the ALARA demonstration is approved, the extraction system should be converted into a long term monitoring system.

- Extraction Well 801 is pumping at a rate of approximately 0.1 gpm. Monitoring Well 801 should be decommissioned as an extraction well and converted into a ground water monitoring well.

5.3 ZONE 3

- The downgradient Stage II wells are recovering over 75% of the ground water that is being produced in Zone 3. The analytical results indicate that the downgradient Stage II wells are producing ground water whose constituent concentrations are very

similar to probable background concentrations. In order to avoid the potential of having contamination drawn downgradient by the Stage II extraction wells, the downgradient extraction wells should be turned off and converted to ground water monitoring wells.

- The extraction system in Zone 3 has eight extraction wells which are operating at pumping rates below 0.75 gpm. These wells are not providing an effective hydraulic barrier for the prevention of contaminant migration. It is therefore recommended that the recovery wells which are operating at less than 0.75 gpm be turned off and converted to ground water monitoring wells.

- Since the ROD/NRC license concentration levels have not been reached, with the exception of NO_3, and since ground water quality has shown little improvement after seven years of remedial activities, it is recommended that United Nuclear apply for alternate concentration levels at Zone 3. However, if United Nuclear determines that a TI Waiver is more appropriate, then United Nuclear may pursue obtaining a TI Waiver.

- A ground water monitoring network must be developed and the wells in the network must be analyzed quarterly to determine if target constituent concentrations statistically increase over time. If the concentrations do statistically increase, additional remedial activities may be necessary.

- United Nuclear should conduct an evaluation of background water quality for all constituents that are currently included in the performance monitoring program for Zone 3.

5.4 ZONE 1

- Borrow Pit No. 2 has been dewatered and reclaimed. This eliminated a major contamination source area as well as the ground water source for the seepage in Zone 1. The potentiometric results indicate that the ground water elevations are diminishing.

- The extraction system in Zone 1 is operating at such low rates (cumulative rate of 0.49 gpm) that it is ineffective in providing a hydraulic barrier for the prevention of contaminant migration. It is therefore recommended that the Pump-Back wells be turned off and converted into ground water monitoring wells.

- Since the ROD/NRC license concentration levels have not been reached, it is recommended that United Nuclear apply for alternative concentration levels at Zone 1. However, if United Nuclear determines that a TI Waiver or ALARA demonstration is more appropriate, then United Nuclear may pursue these options.

- All converted ground water monitoring wells must be analyzed quarterly to determine if target constituent concentrations statistically increase over time. If the concentrations do statistically increase over time, additional remedial activities may be necessary.

5.5 STATEMENT ON PROTECTIVENESS

I certify that the remedy selected for this site remains protective of human health and the environment.

5.6 NEXT FIVE YEAR REVIEW

The next five-year review will be conducted by five years from the date of this review, or one year following the completion of remedial action at the site, whichever is sooner.

Pamela Phillips

Myron O. Knudson, P.E., Director
Superfund Division (6SF)

9/24/98

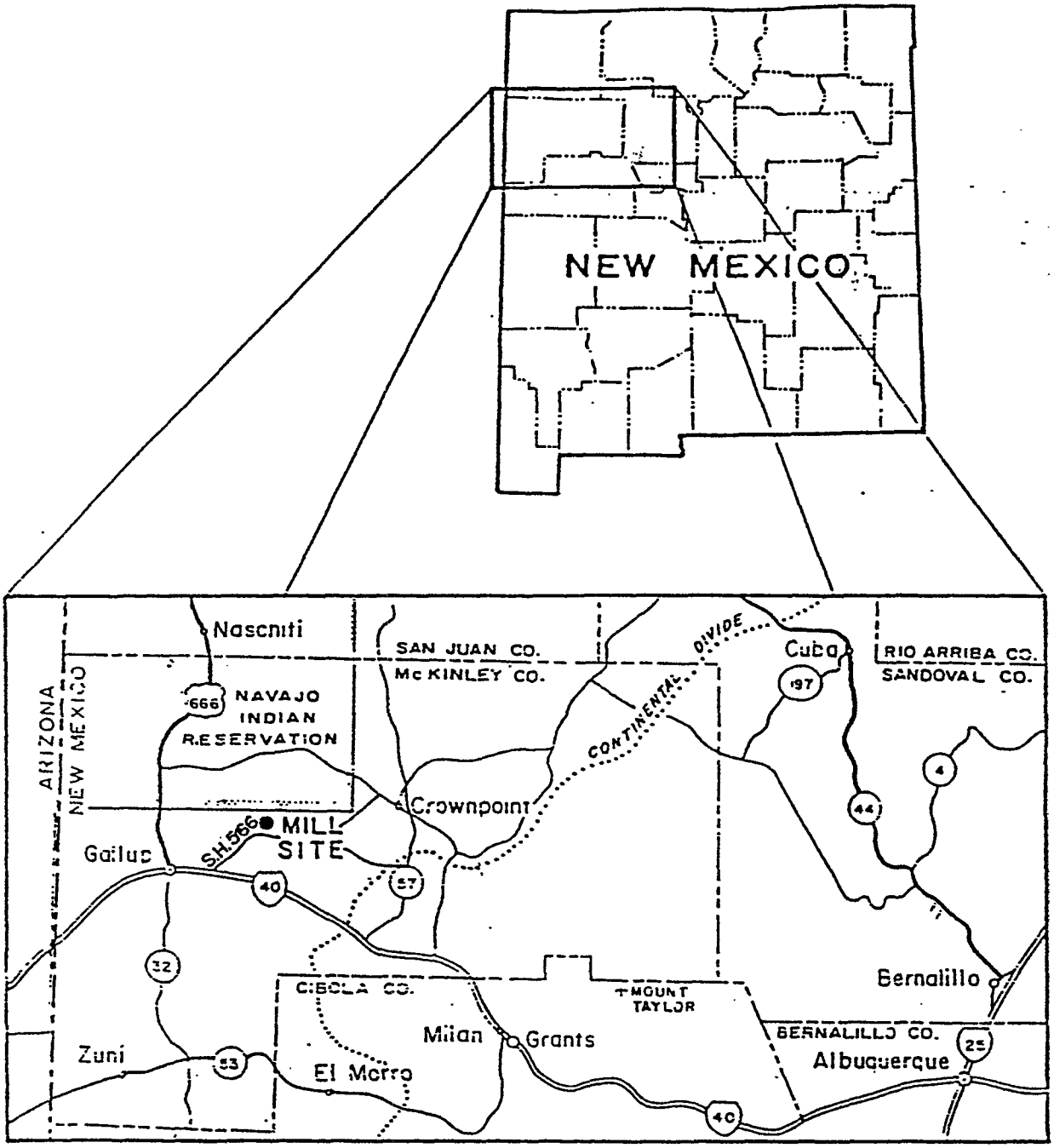
Date

1	FIGURES
2	APPENDIX A Southwest Alluvium Data
3	APPENDIX B Zone 3 Data
4	APPENDIX C Zone 1 Data
5	

WilsonJones. *MultiDex•Basic* ©1998 ACCO Brands, Inc.

FIGURES

DRAWING NUMBER 86-060-A1048



NOTES:

1. AFTER DRAWING No. RM86-060-A24 (FIGURE) 1-1 IN THE 1987 RECLAMATION PLAN (CANONIE, 1987b).

REFERENCE:
URANIUM MILL LICENSE RENEWAL APPLICATION-ENVIRONMENTAL REPORT LICENSE No. NM-UNC-ML. UNC 1981.

SCALE

25 0 25 MILES

SITE VICINITY MAP

PREPARED FOR

UNC MINING AND MILLING
GALLUP, NEW MEXICO

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	8/30/96	ISSUED FOR AS-BUILT CONSTRUCTION REPORT BORROW PIT No.2 RECLAMATION	DCM	JR	

DATE: 3-28-96
SCALE: AS SHOWN

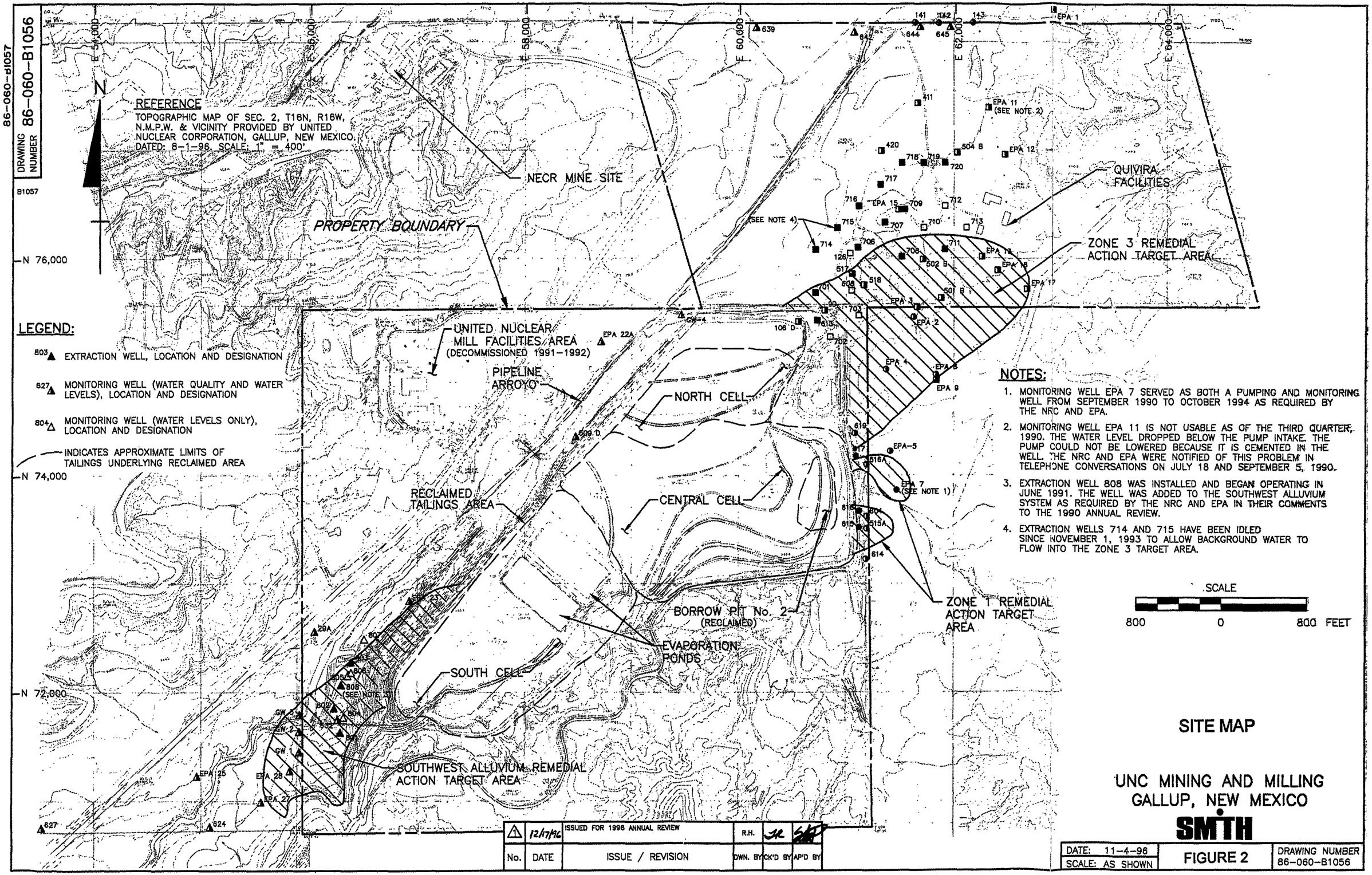
FIGURE 1

DRAWING NUMBER 86-060-A1048

86-060-B1057

DRAWING NUMBER 86-060-B1056

B1057



NOTES:

1. MONITORING WELL EPA 7 SERVED AS BOTH A PUMPING AND MONITORING WELL FROM SEPTEMBER 1990 TO OCTOBER 1994 AS REQUIRED BY THE NRC AND EPA.
2. MONITORING WELL EPA 11 IS NOT USABLE AS OF THE THIRD QUARTER, 1990. THE WATER LEVEL DROPPED BELOW THE PUMP INTAKE. THE PUMP COULD NOT BE LOWERED BECAUSE IT IS CEMENTED IN THE WELL. THE NRC AND EPA WERE NOTIFIED OF THIS PROBLEM IN TELEPHONE CONVERSATIONS ON JULY 18 AND SEPTEMBER 5, 1990.
3. EXTRACTION WELL 808 WAS INSTALLED AND BEGAN OPERATING IN JUNE 1991. THE WELL WAS ADDED TO THE SOUTHWEST ALLUVIUM SYSTEM AS REQUIRED BY THE NRC AND EPA IN THEIR COMMENTS TO THE 1990 ANNUAL REVIEW.
4. EXTRACTION WELLS 714 AND 715 HAVE BEEN IDLED SINCE NOVEMBER 1, 1993 TO ALLOW BACKGROUND WATER TO FLOW INTO THE ZONE 3 TARGET AREA.

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	12/17/96	ISSUED FOR 1996 ANNUAL REVIEW	R.H.	JR	SKP

SITE MAP

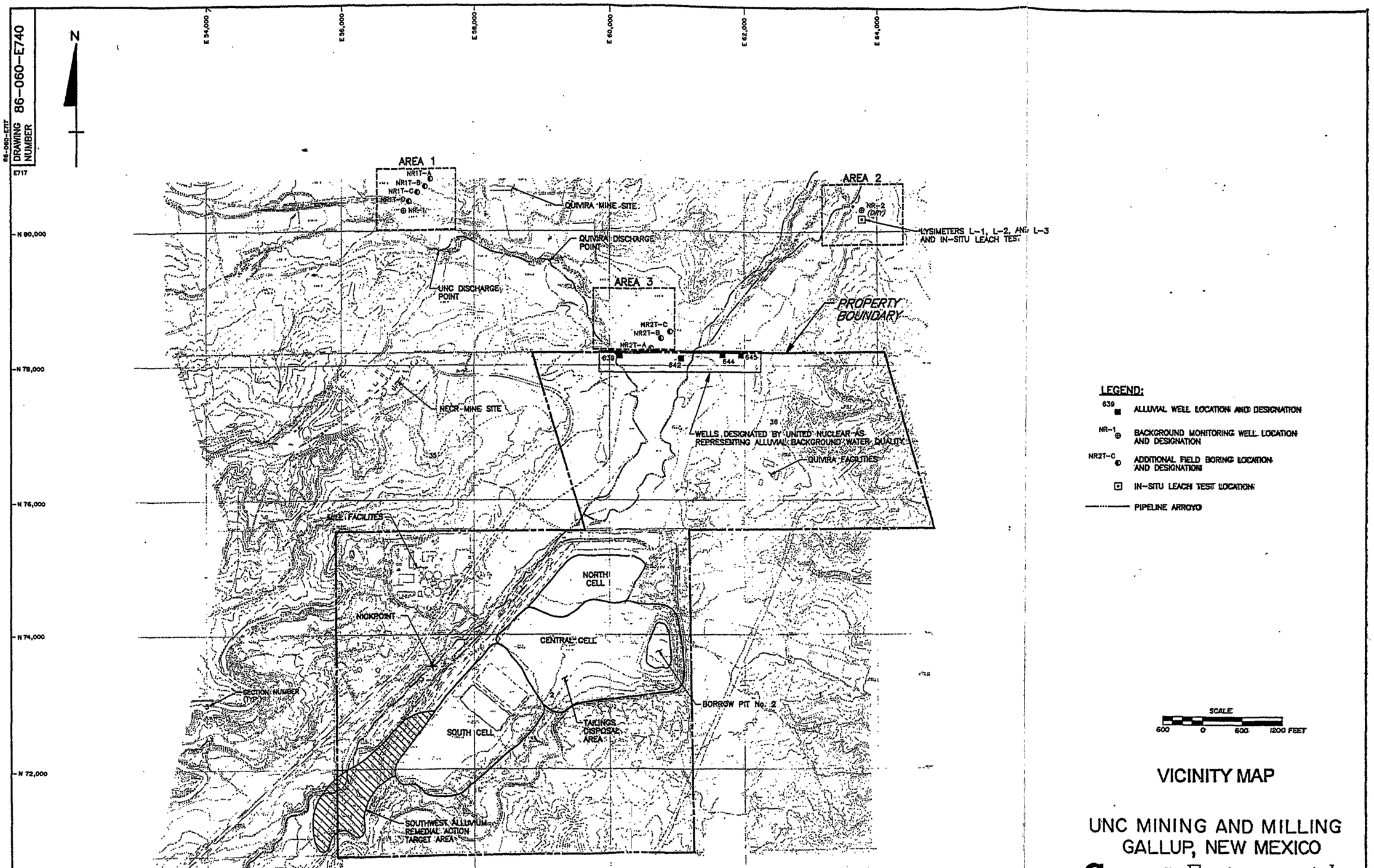
UNC MINING AND MILLING
GALLUP, NEW MEXICO

SMITH

DATE: 11-4-96	FIGURE 2	DRAWING NUMBER
SCALE: AS SHOWN		86-060-B1056

DRAWING NUMBER 86-060-E740

86-060-E717



LEGEND:

- 639 ■ ALLUVIAL WELL LOCATION AND DESIGNATION
- NR-1 ⊕ BACKGROUND MONITORING WELL LOCATION AND DESIGNATION
- NR2T-C ◐ ADDITIONAL FIELD BORING LOCATION AND DESIGNATION
- ⊡ IN-SITU LEACH TEST LOCATION
- ····· PIPELINE ARROYO

SCALE
600 0 600 1200 FEET

REFERENCE:
TOPOGRAPHIC MAP OF SECTION 2, T16N, R16W, N.M.P.M.
& VICINITY PROVIDED BY UNITED NUCLEAR CORP.,
GALLUP, NEW MEXICO, DATED 9-29-89, SCALE 1" = 200'
PORTIONS REVISED USING PHOTOGRAPHY DATED: 10-26-91

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	10/6/92	ISSUED FOR BACKGROUND WATER QUALITY REPORT	M.T.H.	BJ	SMP

86-060-E717

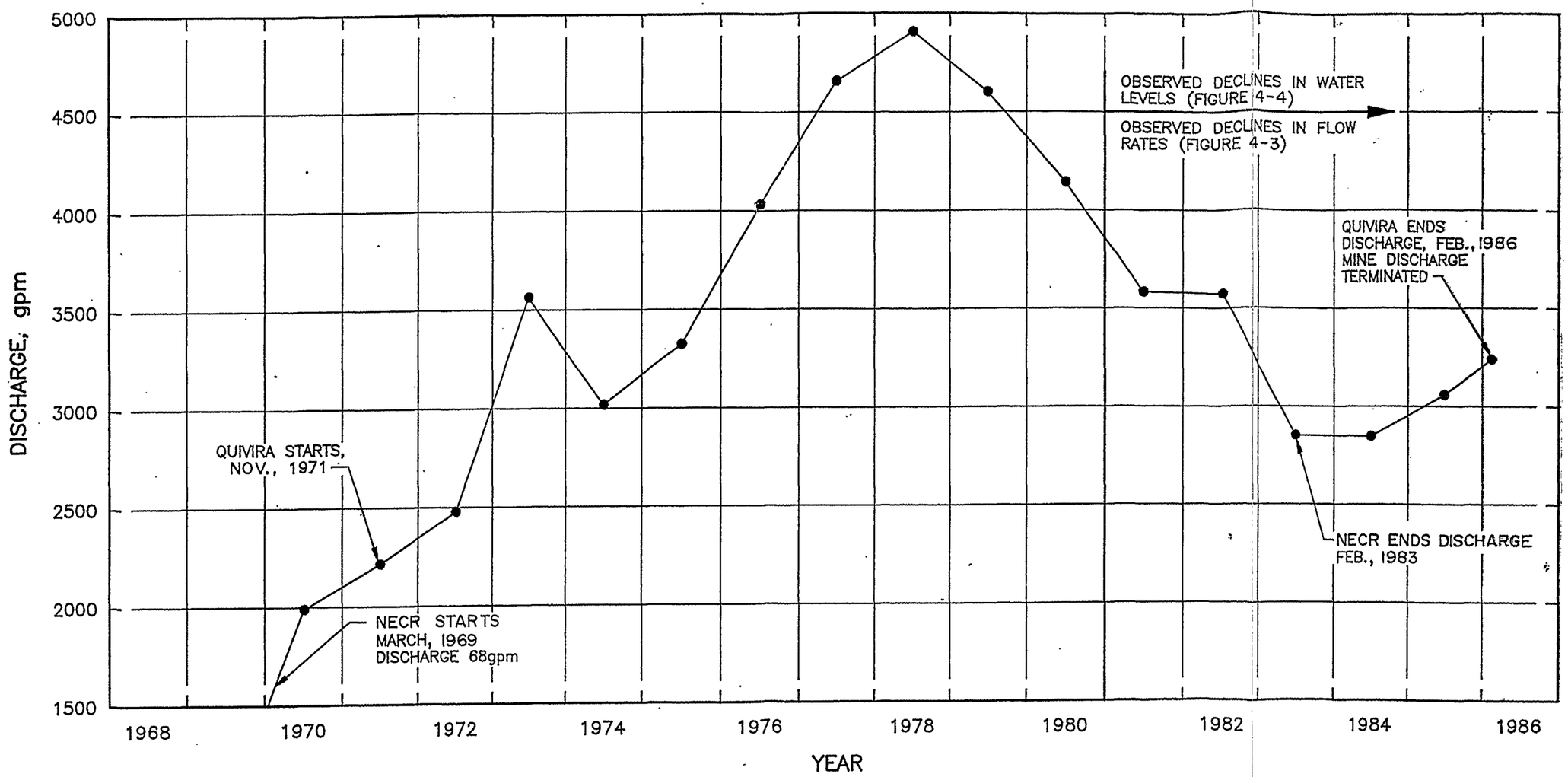
VICINITY MAP

UNC MINING AND MILLING
GALLUP, NEW MEXICO

CanonieEnvironmental

DATE: 6-4-92	FIGURE 3	DRAWING NUMBER 86-060-E740
SCALE: AS SHOWN		

86-060-E717



NOTES:

1. MINE WATER WAS DISCHARGED FROM BOTH THE NORTHEAST CHURCH ROCK MINE (NECR) AND THE QUIVIRA MINE.
2. SOURCE OF OBSERVED DATA: UNC MINING AND MILLING MEMORANDUM DATED: SEPTEMBER 30, 1986.

AVERAGE YEARLY MINE WATER DISCHARGE TO PIPELINE ARROYO

PREPARED FOR

UNC MINING AND MILLING
GALLUP, NEW MEXICO

Canonie Environmental

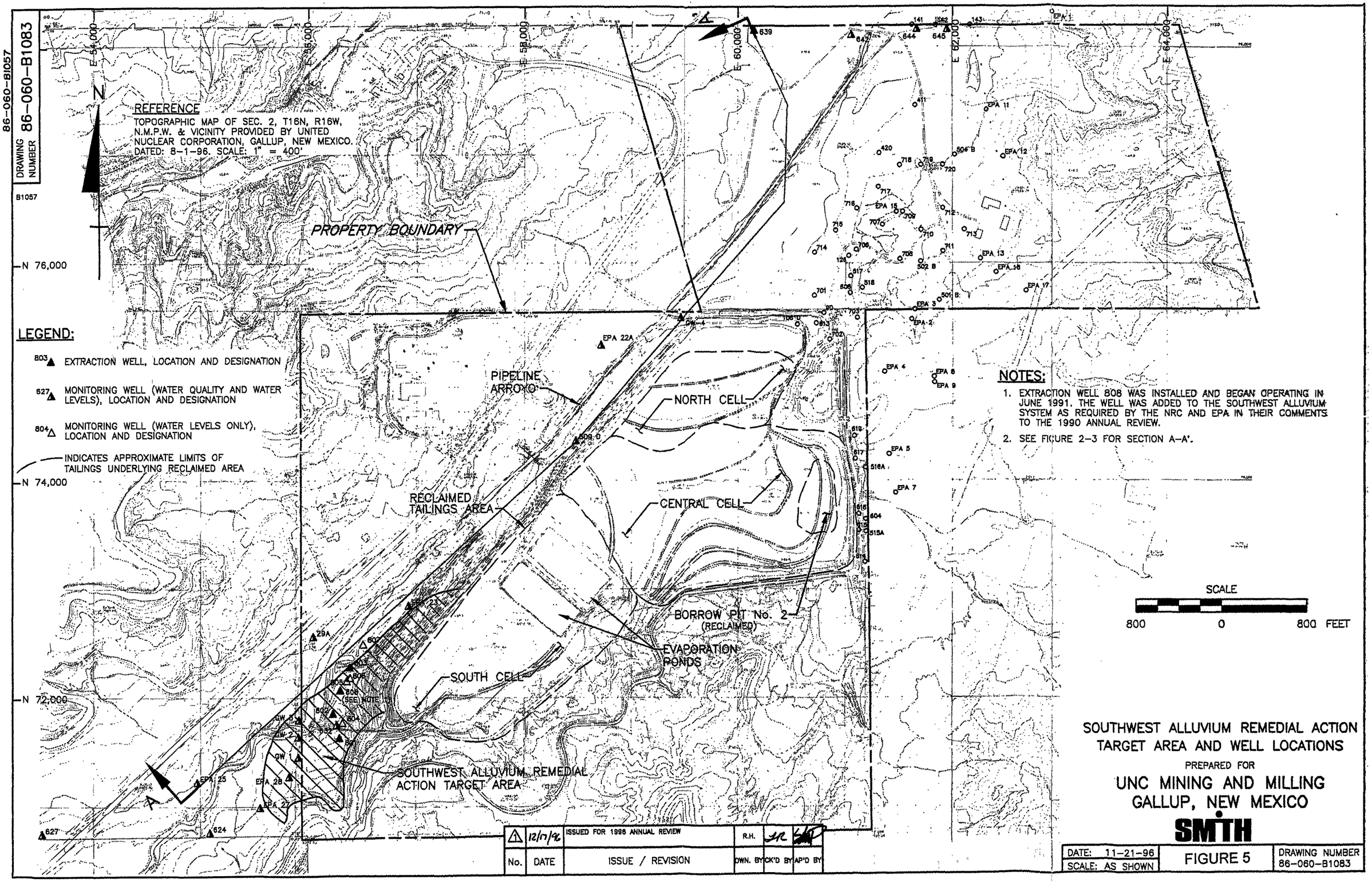
DATE: 3-7-89	FIGURE 4	DRAWING NUMBER 86-060-B196
SCALE: AS SHOWN		

DRAWN BY	T.C. 3-7-89	CHECKED BY	ESB	3-28-89	DRAWING NUMBER 86-060-B196
		APPROVED BY	RJP	3/28/89	

86-060-B1057

DRAWING NUMBER 86-060-B1083

B1057



No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	12/17/96	ISSUED FOR 1996 ANNUAL REVIEW	R.H.	JR	

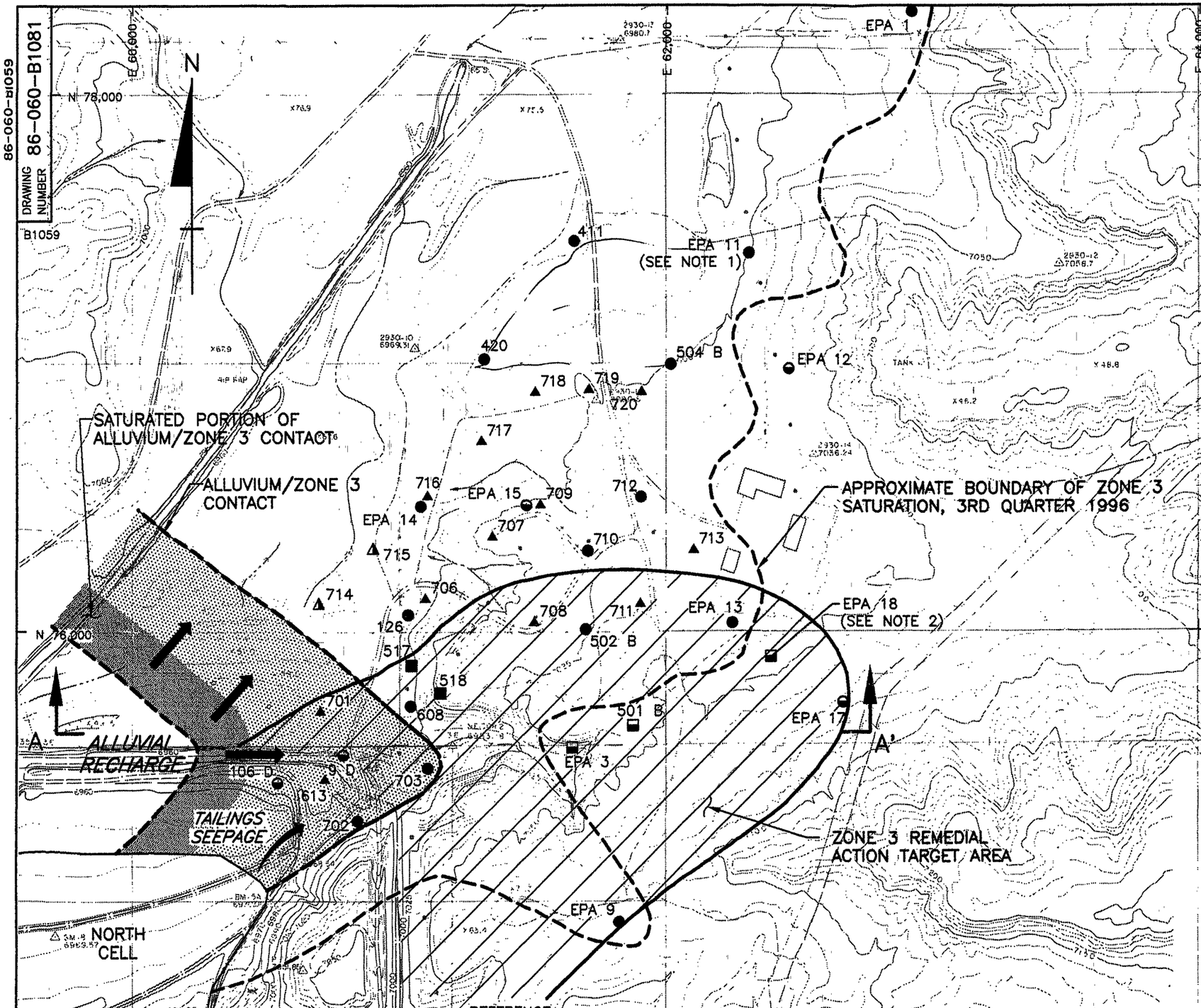
SOUTHWEST ALLUVIUM REMEDIAL ACTION TARGET AREA AND WELL LOCATIONS

PREPARED FOR

UNC MINING AND MILLING GALLUP, NEW MEXICO

SMITH

DATE: 11-21-96	FIGURE 5	DRAWING NUMBER 86-060-B1083
SCALE: AS SHOWN		



LEGEND:

708 ▲	EXTRACTION WELL LOCATION AND DESIGNATION
714 ▲	IDLE EXTRACTION WELL LOCATION AND DESIGNATION
420 ●	ZONE 3 MONITORING WELL LOCATION AND DESIGNATION (CONTAINS WATER)
EPA 17 ●	ZONE 3 MONITORING WELL LOCATION AND DESIGNATION (DRY OR CONTAINS INSUFFICIENT WATER FOR SAMPLE COLLECTION)
518 ■	ZONE 3 POINT OF COMPLIANCE MONITORING WELL LOCATION AND DESIGNATION (CONTAINS WATER)
EPA 3 ■	ZONE 3 POINT OF COMPLIANCE MONITORING WELL LOCATION AND DESIGNATION (DRY OR CONTAINS INSUFFICIENT WATER FOR SAMPLE COLLECTION)

NOTES:

1. MONITORING WELL EPA 11 WAS NOT USABLE AS OF THIRD QUARTER, 1990. THE WATER LEVEL DROPPED BELOW THE PUMP INTAKE. THE PUMP COULD NOT BE LOWERED BECAUSE IT IS CEMENTED IN THE WELL. THE NRC AND EPA WERE NOTIFIED OF THIS PROBLEM IN TELEPHONE CONVERSATIONS ON JULY 18 AND SEPTEMBER 5, 1990.
2. THE WATER LEVEL IN WELL EPA 18 IS BELOW THE BOTTOM OF ZONE 3. THE WELL WAS COMPLETED MORE THAN TEN FEET BELOW THE BOTTOM OF ZONE 3 AND CONTINUES TO COLLECT RESIDUAL ZONE 3 WATER.

SCALE

400 0 400 FEET

REFERENCE:
TOPOGRAPHIC MAP OF SEC. 2, T16N, R16W N.M.P.M. & VICINITY PROVIDED BY UNITED NUCLEAR CORPORATION, GALLUP, N.M. DATED: 8-1-96. SCALE: 1" = 400'.

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	12/11/96	ISSUED FOR 1996 ANNUAL REVIEW	R.H.	JR	[signature]

ZONE 3 EXTRACTION AND PERFORMANCE MONITORING WELLS
3rd QUARTER 1996

PREPARED FOR

UNC MINING AND MILLING
GALLUP, NEW MEXICO

SMITH

DATE: 11-21-96	FIGURE 6	DRAWING NUMBER 86-060-B1081
SCALE: AS SHOWN		

1

86-060-B1057

DRAWING NUMBER 86-060-B1067

B1057

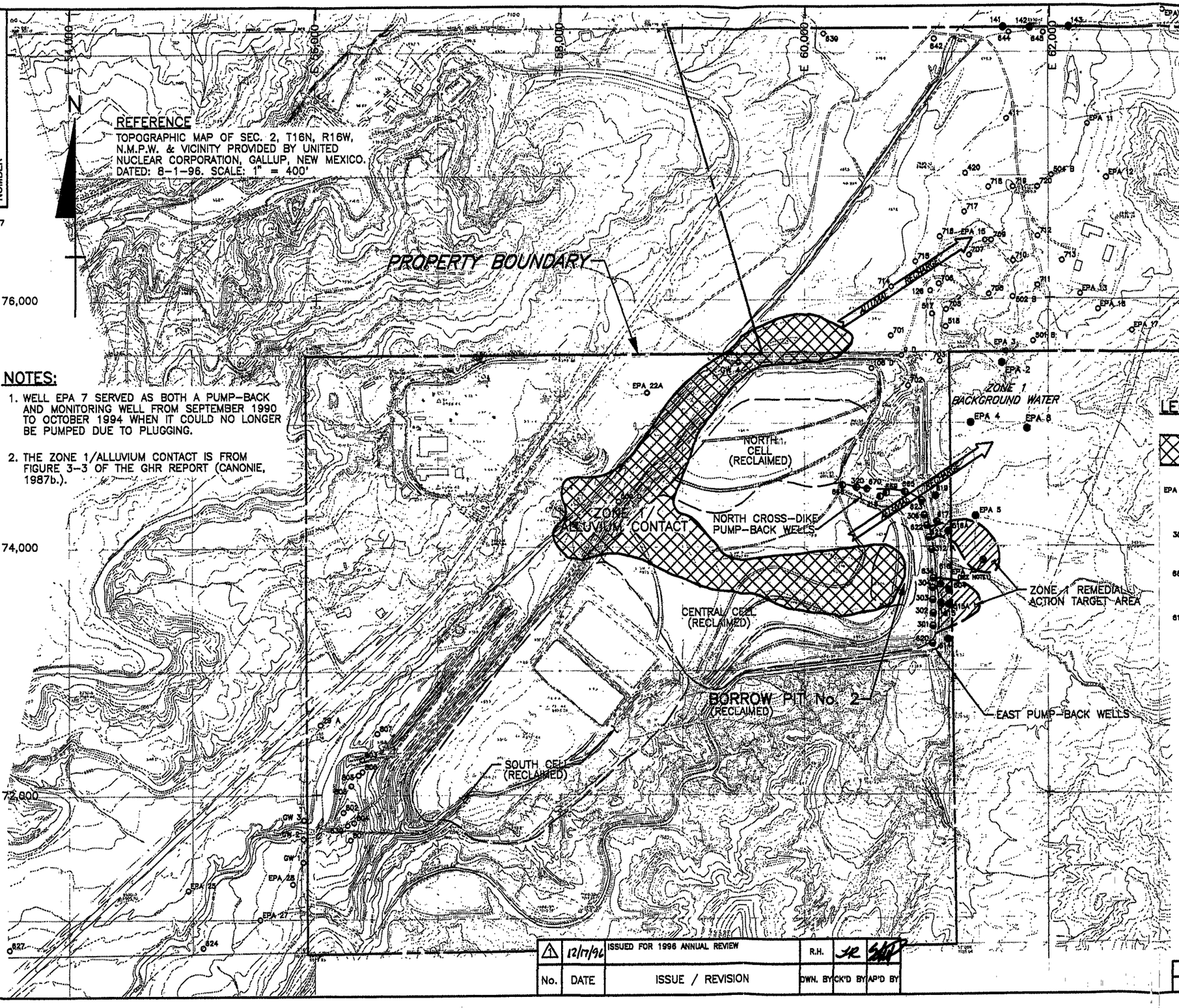
N

REFERENCE

TOPOGRAPHIC MAP OF SEC. 2, T16N, R16W, N.M.P.M. & VICINITY PROVIDED BY UNITED NUCLEAR CORPORATION, GALLUP, NEW MEXICO. DATED: 8-1-96. SCALE: 1" = 400'

NOTES:

1. WELL EPA 7 SERVED AS BOTH A PUMP-BACK AND MONITORING WELL FROM SEPTEMBER 1990 TO OCTOBER 1994 WHEN IT COULD NO LONGER BE PUMPED DUE TO PLUGGING.
2. THE ZONE 1/ALLUVIUM CONTACT IS FROM FIGURE 3-3 OF THE GHR REPORT (CANONIE, 1987b.).



LEGEND:

- INFILTRATION FROM ALLUVIUM INTO ZONE 1
- EPA 4 — MONITORING WELL LOCATION AND DESIGNATION
- 303 — DECOMMISSIONED EAST PUMP-BACK SYSTEM WELL LOCATION AND DESIGNATION (TURNED OFF SEPTEMBER 1990)
- 669 — DECOMMISSIONED NORTH CROSS-DIKE PUMP-BACK SYSTEM WELL LOCATION AND NUMBER (TURNED OFF SEPTEMBER, 1990)
- 617 — REVISED EAST PUMP-BACK SYSTEM WELL LOCATION AND NUMBER (TURNED ON SEPTEMBER, 1990)

SCALE

800 0 800 FEET

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	12/17/96	ISSUED FOR 1996 ANNUAL REVIEW	R.H.	JR	SKP

ZONE 1 REMEDIAL ACTION TARGET AREA AND WELL LOCATIONS

PREPARED FOR

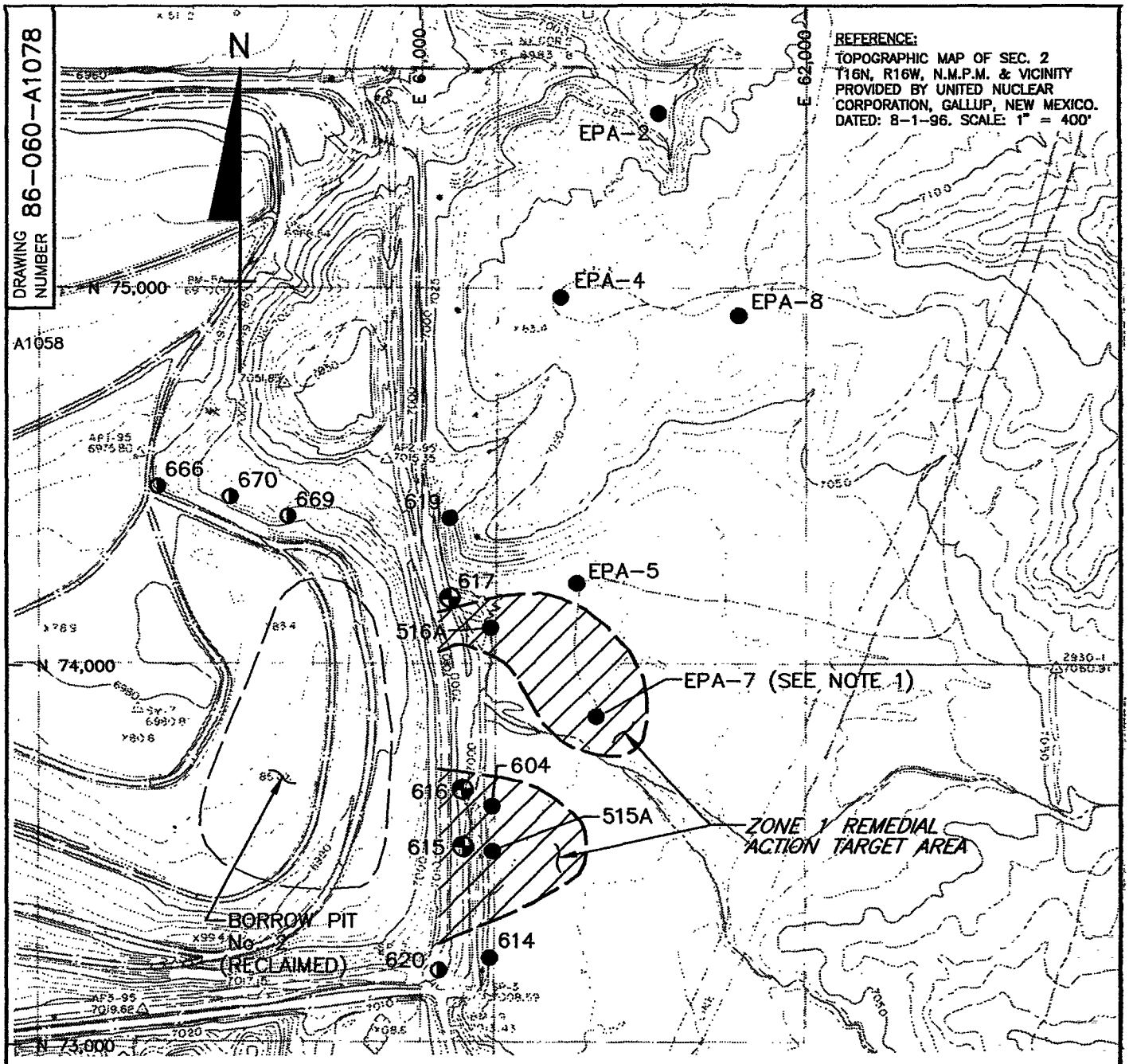
UNC MINING AND MILLING
GALLUP, NEW MEXICO

SMITH

DATE: 11-20-96	FIGURE 7	DRAWING NUMBER
SCALE: AS SHOWN		86-060-B1067

1

DRAWING NUMBER 86-060-A1078



LEGEND:

617 REVISED EAST PUMP-BACK WELL LOCATION AND DESIGNATION

619 MONITORING WELL LOCATION AND DESIGNATION

620 ALARA DEMONSTRATION WELL LOCATION AND DESIGNATION

SCALE

400 0 400 FEET

NOTES:

1. WELL EPA-7 SERVED AS BOTH A PUMP-BACK AND MONITORING WELL FROM SEPTEMBER 1990 TO OCTOBER 1994 WHEN IT COULD NO LONGER BE PUMPED DUE TO PLUGGING.

2. ZONE 1 POC WELLS INCLUDE WELLS 516A, 604, 614, EPA-4 AND EPA-7.

SYSTEM CONFIGURATION IN ZONE 1
3rd QUARTER 1996

PREPARED FOR

UNC MINING AND MILLING
GALLUP, NEW MEXICO

SMITH

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY	DATE: 11-21-96 SCALE: AS SHOWN	FIGURE 8	DRAWING NUMBER 86-060-A1078
1	12/17/96	ISSUED FOR 1996 ANNUAL REVIEW	R.H.					

1

HOMES WITHIN

2 MILES OF UNC

FIGURE 9

APPENDIX A

SMITH

SOUTHWEST ALLUVIUM MONITORING DATA

The Southwest Alluvium Remedial Action System was installed in August 1989 and began operating in October 1989. The initial system consisted of three extraction wells (Wells 801, 802, and 803) and four water-level observation wells (Wells 804, 805, 806, and 807). An additional extraction well, Well 808, was installed and began operating in June 1991 as required by the Nuclear Regulatory Commission and the U.S. Environmental Protection Agency. Extraction Wells 801, 802, and 803 are monitored for water quality and Observation Wells 804, 805, 806, and 807 are monitored for water level elevations on a quarterly basis.

Water level elevations and water quality data have also been collected on a quarterly basis from 18 monitoring wells located up-, down-, and cross-gradient from the tailings area. The 18 monitoring wells include Wells GW 1, GW 2, GW 3, GW 4, EPA 22A, EPA 23, EPA 25, EPA 27, EPA 28, 509 D, 632, 29 A, 624, 627, 639, 642, 644, and 645. All of these wells except for Wells EPA 27 and 29 A are completed in the alluvium. Well EPA 27 is completed partially in the alluvium and partially in the Mancos formation and Well 29 A is completed in the underlying Zone 1 formation. Consequently, water quality data collected from these two wells may not be representative of alluvial ground water conditions.

Table B.1 presents the quarterly water level and water quality data for the observation and monitoring wells from the start of remediation in the fourth quarter 1989 through the third quarter 1996. A number of wells have gone dry since the start of the remedial action. Data for these wells are included up to the time they contained insufficient water for sampling. The laboratory analytical data for 1996 are presented at the end of this appendix.

SMITH

TABLE

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

General Notes:

1. NRC standard as listed in License Condition 30, Part B.
2. EPA standard as listed in Table 2, "Contaminant-Specific Groundwater ARARs" of the ROD (EPA, 1988c). Recommendations have been made for revising EPA standards for TDS, NO_3 and SO_4.
3. NA - Not applicable.
4. "-" (Minus sign) indicates not detected at the level shown in the table. A minus sign for combined Ra-226 and Ra-228 indicates that at least one of these constituents was less than the laboratory limits of detection which are 0.2 and 1.0 pCi/l, respectively.
5. All values that exceed the NRC and/or EPA standards are shaded.
6. Gross alpha value excludes contribution from radon and uranium.
7. "*" (Asterisk) indicates a Point of Compliance well.

Specific Notes:

Well 29 A contained insufficient water for sampling, 1st quarter 1995.
Well 639 contained insufficient water for sampling, 1st quarter 1995.
Well 642 contained insufficient water for sampling, 4th quarter 1995.
Well 644 contained insufficient water for sampling, 1st quarter 1993.
Well 645 contained insufficient water for sampling, 1st quarter 1991.
Well GW 4 contained insufficient water for sampling, 1st and 3rd quarters 1996.

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0029 A	10/16/89		7.1	7.60	5,144	518	240	662	1.3	546	2,176	30.4	0.24	189	-0.00100	-0.001	-0.005
0029 A	1/4/90	6878.6	6.9	7.28	5,080	554	233	607	0.9	528	2,333	42.5	0.09	190	-0.00100	-0.001	-0.005
0029 A	4/3/90	6878.2	7.0	7.50	4,981	567	240	573	0.9	582	2,244	41.9	0.09	147	-0.00100	-0.001	-0.005
0029 A	7/2/90		7.0	7.48	5,000	632	266	463	3.7	596	2,268	38	-0.05	172	-0.00100	-0.001	-0.005
0029 A	10/2/90	6877.4	7.1	7.73	4,778	520	231	472	0.8	558	2,367	39.1	-0.05	118	-0.00100	-0.001	-0.005
0029 A	1/15/91	6877.0	7.1	7.65	4,825	580	242	516	3.5	494	2,474	42.8	-0.05	166	-0.00100	-0.001	-0.005
0029 A	4/2/91	6876.8	6.9	7.49	4,775	592	239	351	0.5	538	2,368	39.6	-0.05	160	-0.00100	-0.001	-0.005
0029 A	7/16/91	6876.2	6.9	7.50	4,595	579	221	347	1.1	598	2,487	37.2	-0.05	147	-0.00100	-0.001	-0.005
0029 A	10/14/91	6875.4	6.8	7.34	4,672	490	204	365	1.1	571	2,197	45.2	-0 05	111	-0.00100	-0.001	-0.005
0029 A	1/14/92	6875.0	6.8	7.38	4,512	560	239	329	0.7	607	2,110	36.4	-0.05	125	-0.00100	-0.001	-0.005
0029 A	4/9/92	6874.8	6.8	7.26	4,656	574	235	432	1.6	531	2,421	39	6.08	70.2	-0.00100	-0.001	-0.005
0029 A	7/14/92	6873.5	6.5	7.58	4,599	644	242	419	1.4	518	2,358	37.7	5.00	129	-0.00100	-0.001	-0.005
0029 A	10/13/92	6872.3	6.9	7.55	4,147	584	267	417	1.7	588	2,568	36.5	0.16	105	-0.00100	-0.001	-0.005
0029 A	1/12/93	6872.1	7.0	7.60	4,274	591	219	415	3.2	558	2,520	36.7	-0.05	91.8	-0.00100	-0.001	-0.005
0029 A	4/14/93	6872.2	7.0	7.62	4,349	569	212	373	3.1	568	2,349	39.8	0.95	96.6	-0.00100	-0.001	-0 005
0029 A	7/15/93	6865.9	7.1	6.93	4,135	591	201	342	8.6	589	2,195	37.1	-0.05	81.6	-0.00100	-0.001	-0.005
0029 A	10/7/93	6868.3	7.1	7.70	4,425	586	212	345	-0.1	549	2,120	35.9	-0.05	120	-0.00100	-0.001	-0.005
0029 A	1/6/94	6870.3	7.1	7.57	4,264	567	206	370	0.3	544	2,376	35.8	-0.05	51.8	-0.00100		
0029 A	4/14/94	6870.2	7.2	7.26	4,070	557	207	344	0.5	576	2,339	36	0.21	72.8	-0.00100		
0029 A	7/21/94	6869.5	7.0	7.56	4,233	678	229	324	-0.1	630	2,625	33	-0.05	70.5	-0.00100		
0029 A	10/5/94	6869.1	6.9	7.81	4,347	641	221	344	0.8	593	2,365	36.2	0.11	86.0	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0029 A	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.05	-0.10	-0.05	0.003	-0.10	0.0396	-1.3	1.1	-1.0	1.5
0029 A	1/4/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	-0.001	-0.10	0.0390	-1.2	-0.2	1.9	-1.0
0029 A	4/3/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.002	-0.10	0.0360	-1.3	-0.2	1.9	0.9
0029 A	7/2/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0302	1.7	0.6	-1.0	1.0
0029 A	10/2/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0310	-2.7	-0.2	-1.0	-1.0
0029 A	1/15/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0416	-1.2	-0.2	-1.0	-1.0
0029 A	4/2/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.002	-0.10	0.0459	-1.4	-0.2	-1.0	-1.0
0029 A	7/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.010	-0.10	0.0370	-1.2	-0.2	-1.0	-1.0
0029 A	10/14/91	-0.10	0.001	-0.01	-0.01	0.02	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0500	-1.2	-0.2	-1.0	-1.0
0029 A	1/14/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	0.05	0.001	-0.10	0.0320	-1.2	-0.2	1.8	-1.0
0029 A	4/9/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.021	-0.10	0.0390	6.8	-0.2	1.5	2.4
0029 A	7/14/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.002	-0.10	0.0400	10.9	-0.2	-1.0	9.5
0029 A	10/13/92	0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.01	-0.10	-0.05	-0.001	-0.10	0.0270	-4.1	-0.2	-1.0	-1.0
0029 A	1/12/93	-0.10	-0.001	-0.01	-0.01	0.03	-0.05	-0.01	-0.10	-0.05	0.011	-0.10	0.0340	-1.2	-0.2	-1.0	-1.0
0029 A	4/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0530	-1.4	-0.2	-1.0	-1.0
0029 A	7/15/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	-0.001	-0.10	0.1580	-1.3	-0.2	-1.0	-1.0
0029 A	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0400	3.7	-0.2	-1.0	-1.0
0029 A	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0350	-1.6	-0.2	1.4	-1.0
0029 A	4/14/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0430	2.5	-0.2	-1.0	3.4
0029 A	7/21/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.002	-0.10	0.0430	-1.2	-0.2	-1.0	-1.0
0029 A	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0400	-4.1	-0.2	1.9	6.2

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0509 D*	10/12/89	6915.8	6.4	6.98	4,860	854	332	201	13.5	1,703	2,053	197	0.13	58.0	-0.00100	-0.001	-0.005
0509 D*	1/4/90	6915.3	6.1	6.54	4,986	833	403	214	10.7	1,745	2,024	202	0.10	43.0	-0.00100	-0.001	-0.005
0509 D*	4/3/90		6.2	6.70	5,192	794	411	210	11.2	1,877	1,996	220	0.10	39.0	-0.00100	-0.001	-0.005
0509 D*	7/3/90		6.3	6.74	5,276	909	348	203	12.0	1,898	2,026	209	-0.05	53.4	-0.00100	-0.001	-0.005
0509 D*	10/3/90	6912.6	6.2	7.24	5,373	847	358	252	12.2	1,819	2,118	221	-0.05	38.0	-0.00100	-0.001	-0.005
0509 D*	1/15/91	6908.0	6.3	7.15	5,428	851	379	273	15.1	1,463	2,355	226	0.05	56.4	-0.00100	-0.001	-0.005
0509 D*	4/9/91	6907.5	6.6	7.25	4,208	923	292	192	9.2	1,218	1,958	178	0.05	37.0	-0.00100	-0.001	-0.005
0509 D*	7/17/91	6906.8	6.3	7.35	5,554	905	365	225	11.0	1,826	2,303	237	0.07	56.8	-0.00100	-0.001	-0.005
0509 D*	10/15/91	6906.2	6.2	6.97	5,616	917	432	253	12.3	1,813	2,407	239	-0.05	22.5	-0.00100	-0.001	-0.005
0509 D*	1/15/92	6905.5	6.1	7.16	4,832	782	378	228	10.2	1,206	2,226	215	-0.05	42.3	-0.00100	-0.001	-0.005
0509 D*	4/8/92	6904.8	6.1	7.41	5,122	822	437	258	11.6	1,763	2,392	227	-0.05	33.3	-0.00100	-0.001	-0.005
0509 D*	7/7/92	6904.0	6.0	7.80	5,151	791	413	319	16.1	1,253	2,379	182	0.15	55.6	-0.00100	-0.001	-0.005
0509 D*	10/6/92	6903.4	6.2	8.15	5,913	913	451	293	12.1	1,946	2,358	230	-0.05	62.5	-0.00100	-0.001	-0.005
0509 D*	1/6/93	6902.9	6.3	7.26	5,281	453	995	156	8.0	2,013	2,878	262	0.81	84.0	-0.00100	-0.001	-0.005
0509 D*	4/7/93	6902.3	6.3	7.00	5,254	786	389	319	10.5	1,797	2,393	251	0.06	51.6	-0.00100	-0.001	-0.005
0509 D*	7/14/93	6901.3	6.3	7.04	5,055	810	402	283	11.4	1,961	2,101	257	-0.05	47.4	-0.00100	-0.001	-0.005
0509 D*	10/6/93	6900.6	6.5	7.00	5,090	830	424	271	11.3	1,787	2,476	231	-0.05	6.7	-0.00100	-0.001	-0.005
0509 D*	1/6/94	6900.2	6.5	6.83	5,480	814	438	293	10.6	1,726	2,583	240	0.16	39.6	-0.00100		
0509 D*	4/12/94	6899.5	6.5	6.75	5,766	780	452	277	11.3	1,660	2,729	256	0.51	59.3	-0.00100		
0509 D*	7/21/94	6898.9	6.4	7.34	6,216	918	487	295	11.7	1,817	3,043	246	0.39	54.1	-0.00100		
0509 D*	10/5/94	6898.6	6.2	7.59	6,177	901	522	319	12.8	1,800	2,749	259	0.93	54.8	-0.00100		
0509 D*	1/5/95	6898.0	6.4	7.12	6,296	880	542	298	14.0	1,898	2,693	271	1.05	49.7	-0.00100		
0509 D*	4/5/95	6897.3	6.5	6.92	6,165	814	494	276	12.0	1,856	2,766	302	1.63	63.0	-0.00100		
0509 D*	7/6/95	6896.6	6.4	7.60	6,186	835	510	300	13.5	1,841	2,602	299	1.54	46.5	-0.00100		
0509 D*	10/3/95	6896.2	6.3	7.41	6,534	820	545	296	13.6	1,928	2,825	292	2.22	50.5	-0.00100		
0509 D*	1/3/96	6895.7	6.5	6.96	5,314	760	490	287	13.3	1,903	2,229	227	2.22	50.4	-0.00100		
0509 D*	4/2/96	6895.1	6.5	7.67	6,804	800	610	324	15.0	1,979	3,030	342	3.86	53.6	-0.00100		
0509 D*	7/7/96	6890.1	6.2	7.04	6,283	805	495	300	14.7	1,769	2,580	255	2.45	44.5	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0509 D*	10/12/89	0.12	0.001	-0.05	-0.01	-0.01	-0.05	0.39	-0.10	-0.05	0.001	-0.10	0.1050	-1.8	-0.2	2.3	1.2
0509 D*	1/4/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.38	-0.10	-0.05	-0.001	-0.10	0.1070	-1.9	-0.2	3.4	2.5
0509 D*	4/3/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.43	-0.10	-0.05	-0.001	-0.10	0.1060	-1.7	-0.2	-1.0	1.4
0509 D*	7/3/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.48	-0.10	-0.05	-0.001	-0.10	0.1260	-1.4	-0.2	-1.0	-1.0
0509 D*	10/3/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.55	-0.10	-0.05	0.002	-0.10	0.0740	-1.2	-0.2	1.9	-1.0
0509 D*	1/15/91	-0.10	-0.001	-0.01	0.01	-0.01	-0.05	0.44	-0.10	-0.05	-0.001	-0.10	0.1202	-1.8	1.0	-1.0	-1.0
0509 D*	4/9/91	-0.10	-0.001	-0.01	0.02	-0.01	-0.05	0.91	-0.10	-0.05	0.001	-0.10	0.1274	-1.5	-0.2	2.9	-1.0
0509 D*	7/17/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.10	-0.05	-0.001	-0.10	0.1360	-1.4	-0.2	-1.0	-1.0
0509 D*	10/15/91	-0.10	0.001	-0.01	-0.01	0.01	-0.05	0.50	-0.10	-0.05	0.001	-0.10	0.1320	8.1	-0.2	-1.0	-1.0
0509 D*	1/15/92	0.26	-0.001	-0.01	-0.01	-0.01	-0.05	0.70	-0.10	-0.05	0.002	-0.10	0.2200	-1.2	-0.2	-1.0	-1.0
0509 D*	4/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.61	-0.10	-0.05	0.004	-0.10	0.1240	-1.3	-0.2	1.9	-1.0
0509 D*	7/7/92	0.12	-0.001	-0.01	-0.01	-0.01	0.07	0.72	-0.10	-0.05	0.002	-0.10	0.1200	2.2	-0.2	-1.0	1.2
0509 D*	10/6/92	0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.66	-0.10	-0.05	0.005	-0.10	0.1190	2.9	-0.2	2.3	-1.0
0509 D*	1/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.86	-0.10	-0.05	0.005	-0.10	0.0030	6.4	-0.2	-1.0	1.7
0509 D*	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.68	-0.10	-0.05	-0.001	-0.10	0.1420	2.2	-0.2	2.9	-1.0
0509 D*	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.74	-0.10	-0.05	-0.001	-0.10	0.0820	2.5	-0.2	-1.0	-1.0
0509 D*	10/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.75	-0.10	-0.05	-0.001	-0.10	0.0430	-1.9	-0.2	-1.0	-1.0
0509 D*	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.10	-0.05	-0.001	-0.10	0.0810	-1.4	-0.2	1.1	-1.0
0509 D*	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.10	-0.05	-0.001	-0.10	0.0820	-1.2	-0.2	-1.0	-1.0
0509 D*	7/21/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.88	-0.10	-0.05	0.004	-0.10	0.0750	5.1	-0.2	1.2	5.5
0509 D*	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.88	-0.10	-0.05	-0.001	-0.10	0.0840	2.3	-0.2	2.7	3.4
0509 D*	1/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.85	-0.10	-0.05	-0.001	-0.10	0.0840	2.2	-0.2	-1.0	3.2
0509 D*	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.10	-0.05	-0.001	-0.10	0.0840	1.8	-0.2	-1.0	2.8
0509 D*	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.91	-0.10	-0.05	0.001	-0.10	0.0816	-1.2	0.4	-1.0	-1.0
0509 D*	10/3/95	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	0.82	-0.10	-0.05	0.002	-0.10	0.0840	-1.8	-0.2	-1.0	1.7
0509 D*	1/3/96	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.79	-0.10	-0.05	0.002	-0.10	0.0900	-1.4	-0.2	1.5	2.0
0509 D*	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.86	-0.10	-0.05	-0.001	-0.10	0.1010	-1.2	-0.2	-1.0	-1.0
0509 D*	7/7/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.97	-0.10	-0.05	-0.001	-0.10	0.1430	-1.5	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0624	10/16/89	6860.4	7.1	7.50	4,760	535	399	211	5.0	456	2,182	110	0.10	108	-0.00100	-0.001	-0.005
0624	1/10/90	6860.1	7.2	7.32	4,642	562	363	208	3.6	473	2,370	110	0.05	118	-0.00100	-0.001	-0.005
0624	4/5/90	6860.4	7.1	7.58	4,722	559	390	206	3.8	537	2,311	115	0.12	130	-0.00100	-0.001	-0.005
0624	7/3/90	6859.7	7.1	7.48	4,839	553	371	195	3.9	512	2,306	113	-0.05	127	-0.00100	-0.001	-0.005
0624	10/3/90	6859.8	7.0	7.75	4,783	565	384	215	4.0	561	2,311	117	-0.05	82.0	-0.00100	-0.001	-0.005
0624	1/15/91	6860.0	7.1	7.55	4,686	612	405	212	5.6	528	2,468	120	-0.05	117	-0.00100	-0.001	-0.005
0624	4/2/91	6860.1	7.2	7.68	4,832	555	362	203	3.2	524	2,428	130	-0.05	132	-0.00100	-0.001	-0.005
0624	7/17/91	6859.2	7.1	7.75	4,689	540	335	195	2.9	595	2,602	132	0.05	159	-0.00100	-0.001	-0.005
0624	10/15/91	6858.8	6.9	7.54	4,640	609	373	186	2.5	549	2,327	118	-0.05	93.9	-0.00100	-0.001	-0.005
0624	1/15/92	6858.5	6.9	7.57	4,267	525	348	197	2.8	539	2,296	113	-0.05	82.0	-0.00100	-0.001	-0.005
0624	4/8/92	6858.3	6.9	7.73	4,279	581	371	208	3.5	597	2,276	118	-0.05	83.2	-0.00100	-0.001	-0.005
0624	7/8/92	6857.9	6.8	7.43	4,323	581	360	254	4.3	432	2,259	125	0.08	106	-0.00100	-0.001	-0.005
0624	10/6/92	6857.5	7.0	7.56	4,704	626	364	218	2.1	593	2,304	112	-0.05	120	-0.00100	-0.001	-0.005
0624	1/7/93	6857.1	7.0	7.71	4,698	587	348	211	3.9	586	2,245	122	-0.05	105	-0.00100	-0.001	-0.005
0624	4/7/93	6857.1	7.0	7.50	4,111	553	307	230	15.9	581	2,172	129	-0.05	107	-0.00100	-0.001	-0.005
0624	7/14/93	6856.6	7.0	7.11	4,803	645	361	211	2.4	748	2,307	138	-0.05	106	-0.00100	-0.001	-0.005
0624	10/7/93	6856.4	7.1	7.62	4,371	602	326	188	1.4	700	2,107	128	-0.05	117	-0.00100	-0.001	-0.005
0624	1/6/94	6806.0	7.2	7.41	4,425	618	345	200	2.2	694	2,241	129	-0.05	89.4	-0.00100		
0624	4/12/94	6855.6	7.1	7.45	4,779	623	344	197	1.7	625	2,324	118	0.30	124	-0.00100		
0624	7/21/94	6855.2	7.1	7.54	4,592	674	356	203	2.0	649	2,203	118	-0.05	115	-0.00100		
0624	10/5/94	6855.0	6.8	7.64	4,815	661	391	212	3.8	843	2,160	137	-0.05	97.3	-0.00100		
0624	1/4/95	6854.7	6.9	7.63	4,803	665	375	202	3.5	814	2,303	137	0.27	92.8	-0.00100		
0624	4/5/95	6854.4	7.0	7.44	4,661	630	342	195	3.0	475	2,383	155	0.27	101	-0.00100		
0624	7/6/95	6854.4	7.1	7.63	4,358	655	405	207	3.9	766	2,201	157	0.10	93.5	-0.00100		
0624	10/3/95	6853.8	7.0	7.83	4,950	655	415	197	3.8	972	2,247	154	0.18	94.3	-0.00100		
0624	1/3/96	6853.6	7.0	7.43	4,553	610	392	203	4.8	1,182	1,879	123	-0.05	97.0	-0.00100		
0624	4/2/96	6853.2	6.8	7.92	4,942	655	430	204	4.7	1,048	2,310	150	-0.05	100	-0.00100		
0624	7/7/96	6852.9	6.6	7.45	4,946	645	405	206	4.6	1,158	2,190	145	0.07	84.4	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0624	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.003	-0.10	0.0210	-2.6	0.5	-1.0	1.8
0624	1/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.002	-0.10	0.0220	1.4	-0.2	-1.0	0.8
0624	4/5/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.003	-0.10	0.0200	-1.4	-0.2	1.1	0.9
0624	7/3/90	0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0242	-1.7	-0.2	-1.0	-1.0
0624	10/3/90	-0.10	0.001	-0.05	-0.01	0.02	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0220	-2.0	-0.2	-1.0	-1.0
0624	1/15/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.01	-0.10	-0.05	0.001	-0.10	0.0268	-1.4	-0.2	-1.0	-1.0
0624	4/2/91	0.13	-0.001	-0.01	-0.01	0.02	-0.05	-0.01	-0.10	-0.05	0.001	-0.10	0.0380	1.9	-0.2	-1.0	-1.0
0624	7/17/91	0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0340	-1.2	-0.2	-1.0	-1.0
0624	10/15/91	0.10	0.001	-0.01	-0.01	0.01	-0.05	0.01	-0.10	-0.05	0.002	-0.10	0.0340	2.2	-0.2	-1.0	-1.0
0624	1/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.002	-0.10	0.0290	-1.2	-0.2	-1.0	-1.0
0624	4/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0340	-1.2	-0.2	-1.0	-1.0
0624	7/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	0.07	-0.01	-0.10	-0.05	0.002	-0.10	0.0300	-1.2	-0.2	-1.0	-1.0
0624	10/6/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.006	-0.10	0.0480	-1.2	-0.2	-1.0	-1.0
0624	1/7/93	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.02	-0.10	-0.05	0.008	-0.10	0.0430	-4.4	-0.2	-1.0	-1.0
0624	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.002	-0.10	0.0330	-5.6	-0.2	1.4	4.8
0624	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.003	-0.10	0.0190	-1.2	-0.2	2.8	-1.0
0624	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.003	-0.10	0.0230	-1.6	-0.2	4.8	-1.0
0624	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0270	6.4	-0.2	-1.0	9.9
0624	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.001	-0.10	0.0430	8.9	-0.2	-1.0	11.3
0624	7/21/94	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0290	-1.3	-0.2	-1.0	1.8
0624	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0350	-1.2	-0.2	-1.0	-1.0
0624	1/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0330	1.9	-0.2	-1.0	2.7
0624	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0370	5.5	-0.2	2.1	6.5
0624	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.002	-0.10	0.0405	-1.2	-0.2	-1.0	-1.0
0624	10/3/95	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.013	-0.10	0.0331	-1.3	-0.2	-1.0	-1.0
0624	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.007	-0.10	0.0320	1.9	0.6	-1.0	-1.0
0624	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0330	-1.2	-0.2	-1.0	-1.0
0624	7/7/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0430	-1.3	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0627	10/16/89	6846.8	6.9	7.36	4,612	539	290	359	3.8	659	2,151	36.6	0.12	112	-0.00100	-0.001	-0.005
0627	1/4/90	6846.7	6.8	7.24	4,446	571	275	351	7.8	656	2,277	39.7	0.07	113	-0.00100	-0.001	-0.005
0627	4/3/90	6846.4	6.8	7.32	4,492	590	290	352	3.2	698	2,168	40.1	0.09	90.0	-0.00100	-0.001	-0.005
0627	7/2/90	6846.2	6.7	7.34	4,750	613	322	325	4.5	693	2,265	41.5	-0.05	109	-0.00100	-0.001	-0.005
0627	10/2/90	6846.2	6.8	7.60	4,551	509	270	342	2.8	644	2,404	41.6	-0.05	78.0	-0.00100	-0.001	-0.005
0627	1/15/91	6846.2	6.8	7.77	4,537	587	309	393	5.9	617	2,480	49.0	-0.05	118	-0.00100	-0.001	-0.005
0627	4/2/91	6846.2	6.8	7.70	4,623	533	263	331	2.7	595	2,407	45.9	-0.05	94.8	-0.00100	-0.001	-0.005
0627	7/16/91	6845.9	6.8	7.44	4,454	525	249	335	2.8	532	2,537	45.4	0.36	97.2	-0.00100	-0.001	-0.005
0627	10/14/91	6845.6	6.7	7.37	4,539	448	221	342	2.7	622	2,161	55.7	-0.05	104	-0.00100	-0.001	-0.005
0627	1/14/92	6845.4	6.6	7.12	4,614	490	246	342	2.8	619	2,317	54.7	-0.05	101	-0.00100	-0.001	-0.005
0627	4/9/92	6845.1	6.6	7.91	4,671	543	283	424	3.2	605	2,346	52.3	-0.05	68.4	-0.00100	-0.001	-0.005
0627	7/7/92	6844.9	6.5	8.00	4,811	585	280	468	4.2	588	2,403	59.2	0.13	108	-0.00100	-0.001	-0.005
0627	10/7/92	6844.6	6.8	7.45	4,696	563	257	484	5.0	593	2,402	56.3	-0.05	125	-0.00100	-0.001	-0.005
0627	1/7/93	6844.4	6.8	7.88	4,615	556	264	408	2.8	576	2,324	57.4	-0.05	116	-0.00100	-0.001	-0.005
0627	4/7/93	6844.3	6.8	7.59	4,751	546	228	448	2.3	553	2,341	61.0	-0.05	100	-0.00100	-0.001	-0.005
0627	7/14/93	6843.8	6.9	7.21	5,045	645	255	512	2.6	570	2,476	72.5	-0.05	99.3	-0.00100	-0.001	-0.005
0627	10/7/93	6843.6	6.9	7.57	5,187	568	239	453	2.3	532	2,548	62.4	0.05	133	-0.00100	-0.001	-0.005
0627	1/6/94	6843.4	6.9	7.51	4,941	563	246	474	2.6	512	2,693	63.1	-0.05	61.0	-0.00100		
0627	4/13/94	6843.2	7.0	7.15	4,787	564	242	486	2.6	510	2,428	58.5	0.12	107	-0.00100		
0627	7/21/94	6842.9	6.9	7.53	4,899	620	259	455	2.9	529	2,908	54.6	-0.05	108	-0.00100		
0627	10/5/94	6842.9	6.9	7.86	5,024	610	282	535	3.6	549	2,719	62.6	-0.05	137	-0.00100		
0627	1/5/95	6842.6	6.9	7.49	5,292	634	280	530	4.2	540	2,650	58.9	0.15	105	-0.00100		
0627	4/5/95	6842.5	6.9	7.22	5,324	540	275	505	3.9	542	2,682	66.0	0.24	125	-0.00100		
0627	7/6/95	6842.0	6.9	7.91	5,112	585	315	490	3.6	560	2,555	61.0	-0.05	90.5	-0.00100		
0627	10/3/95	6841.8	6.9	7.65	5,241	580	280	535	3.9	544	2,760	58.0	0.48	126	-0.00100		
0627	1/3/96	6841.7	7.1	7.52	5,293	640	300	531	3.6	542	2,995	60.0	-0.05	131	-0.00100		
0627	4/2/96	6841.5	7.1	8.06	5,230	570	287	530	3.6	558	2,740	65.1	-0.05	129	-0.00100		
0627	7/7/96	6841.2	6.8	7.56	5,403	585	280	570	4.1	534	2,725	64.0	0.13	113	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0627	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.002	-0.10	0.0181	-1.6	3.3	1.1	3.8
0627	1/4/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0140	-3.0	-0.2	2.4	3.4
0627	4/3/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.001	-0.10	0.0150	-1.4	-0.2	-1.0	1.1
0627	7/2/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	-0.001	-0.10	0.0175	-1.3	-0.2	1.9	-1.0
0627	10/2/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.05	-0.10	-0.05	-0.001	-0.10	0.0140	-1.2	-0.2	-1.0	-1.0
0627	1/15/91	0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0176	-1.2	-0.2	-1.0	-1.0
0627	4/2/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0490	4.8	-0.2	-1.0	1.0
0627	7/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0140	-3.0	-0.2	-1.0	-1.0
0627	10/14/91	-0.10	0.001	-0.01	-0.01	0.01	-0.05	0.05	-0.10	-0.05	0.002	-0.10	0.0200	-1.7	-0.2	-1.0	-1.0
0627	1/14/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.002	-0.10	0.0170	2.1	-0.2	-1.0	-1.0
0627	4/9/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.003	-0.10	0.0190	-3.1	-0.2	1.2	-1.0
0627	7/7/92	-0.10	-0.001	-0.10	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.001	-0.10	0.0200	-1.7	-0.2	-1.0	-1.0
0627	10/7/92	-0.10	-0.001	-0.10	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.003	-0.10	0.0250	2.8	-0.2	1.7	-1.0
0627	1/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.014	-0.10	0.0180	2.0	-0.2	-1.0	-1.0
0627	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.004	-0.10	0.0330	-1.2	-0.2	1.2	-1.0
0627	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.018	-0.10	0.0160	2.9	-0.2	-1.0	-1.0
0627	10/7/93	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.08	-0.10	-0.05	0.009	-0.10	0.0120	-1.6	-0.2	-1.0	-1.0
0627	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.003	-0.10	0.0150	-1.9	-0.2	-1.0	-1.0
0627	4/13/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.002	-0.10	0.0150	-1.8	-0.2	3.2	-1.0
0627	7/21/94	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.003	-0.10	0.0170	3.2	-0.2	-1.0	4.6
0627	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.001	-0.10	0.0160	-1.4	-0.2	-1.0	-1.0
0627	1/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	-0.001	-0.10	0.0160	-1.3	-0.2	-1.0	-1.0
0627	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	-0.001	-0.10	0.0160	-2.2	-0.2	1.4	1.4
0627	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.003	-0.10	0.0205	-1.8	0.3	-1.0	1.4
0627	10/3/95	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.019	-0.10	0.0168	-1.2	-0.2	1.7	2.0
0627	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.001	-0.10	0.0180	-1.7	1.2	2.4	1.2
0627	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	-0.001	-0.10	0.0190	-1.5	-0.2	-1.0	-1.0
0627	7/7/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	-0.001	-0.10	0.0240	-1.3	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0632*	10/16/89	6874.0	6.8	7.10	6,468	781	671	408	10.7	2,257	2,578	246	0.47	95.0	-0.00100	-0.001	-0.005
0632*	1/10/90	6872.3	6.4	6.54	6,860	783	712	407	8.4	2,111	2,747	251	0.43	83.0	-0.00100	-0.001	-0.005
0632*	4/10/90	6870.4	6.3	7.16	6,977	778	688	380	7.4	2,208	2,677	258	0.44	107	-0.00100	-0.001	-0.005
0632*	7/10/90	6871.1	6.3	6.86	7,355	819	674	412	7.9	2,296	3,007	248	0.37	124	-0.00100	-0.001	-0.005
0632*	10/9/90	6870.4	6.2	7.27	7,558	839	707	433	9.0	2,239	2,945	258	0.52	106	-0.00100	-0.001	-0.005
0632*	1/10/91	6869.9	6.3	7.18	7,367	900	760	429	8.9	2,184	3,027	267	0.40	113	-0.00100	-0.001	-0.005
0632*	4/11/91	6869.9	6.2	7.36	7,346	857	663	451	9.4	2,285	3,053	274	0.37	146	-0.00100	-0.001	-0.005
0632*	7/9/91	6868.3	6.3	6.68	7,472	833	636	390	6.9	2,336	2,964	273	0.61	117	-0.00100	-0.001	-0.005
0632*	10/17/91	6867.5	6.1	7.08	7,677	886	630	426	8.4	2,510	2,959	267	0.72	87.6	-0.00100	-0.001	-0.005
0632*	1/21/92	6867.6	6.2	6.95	7,030	747	758	424	7.2	2,211	3,200	261	0.60	76.1	-0.00100	-0.001	-0.005
0632*	4/14/92	6868.3	6.1	7.56	7,706	677	557	460	9.1	2,184	3,126	263	0.55	75.7	-0.00100	-0.001	-0.005
0632*	7/14/92	6864.5	6.0	8.05	6,323	815	547	451	11.3	1,568	2,948	265	0.36	119	-0.00100	-0.001	-0.005
0632*	10/13/92	6863.0	6.4	7.02	6,472	719	594	417	7.4	2,495	2,903	269	0.18	89.5	-0.00100	-0.001	-0.005
0632*	1/12/93	6864.8	6.4	7.02	5,933	750	571	438	11.2	1,220	3,037	265	0.24	92.7	-0.00100	-0.001	-0.005
0632*	4/14/93	6865.6	6.4	7.11	6,925	696	633	433	6.7	2,113	2,962	269	0.31	95.3	-0.00100	-0.001	-0.005
0632*	7/15/93	6862.2	6.4	6.72	6,303	701	607	426	9.1	2,098	3,107	264	0.19	62.1	-0.00100	-0.001	-0.005
0632*	10/7/93	6860.4	6.5	7.10	5,715	676	555	384	6.6	2,240	2,392	255	0.13	56.6	-0.00100	-0.001	-0.005
0632*	1/6/94	6862.4	6.5	7.51	6,091	690	549	409	6.9	1,984	2,705	252	0.17	36.5	0.00100		
0632*	4/14/94	6862.5	6.4	6.74	5,930	683	579	426	7.8	2,063	2,807	251	0.33	25.9	-0.00100		
0632*	7/21/94	6862.7	6.4	7.19	6,160	745	632	383	7.5	2,123	3,080	246	0.23	30.3	-0.00100		
0632*	10/5/94	6861.1	6.3	7.47	6,288	692	619	431	8.1	2,200	2,689	255	0.23	20.9	-0.00100		
0632*	1/10/95	6861.7	6.4	7.45	6,458	708	655	348	8.2	2,184	2,857	250	0.41	21.9	-0.00100		
0632*	4/5/95	6860.9	6.5	6.93	6,453	685	650	420	10.8	2,119	2,905	250	2.51	23.9	-0.00100		
0632*	7/6/95	6860.3	6.4	7.52	6,335	696	646	393	8.5	2,281	2,647	285	0.43	24.1	-0.00100		
0632*	10/3/95	6860.3	6.3	7.52	6,319	695	585	374	8.2	2,247	2,745	250	0.44	16.8	-0.00100		
0632*	1/4/96	6859.1	6.5	7.59	6,294	760	625	378	7.9	2,239	2,595	250	0.22	16.4	-0.00100		
0632*	4/2/96	6859.3	6.6	7.82	5,940	650	585	384	8.1	1,807	2,715	278	0.26	17.4	-0.00100		
0632*	7/7/96	6858.8	6.4	7.40	6,258	671	589	397	8.8	2,035	2,749	233	0.29	10.9	0.00168		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0632*	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.003	-0.10	0.1110	2.9	-0.2	-1.0	-1.0
0632*	1/10/90	-0.10	-0.001	-0.05	-0.01	0.04	-0.05	0.15	-0.10	0.07	0.003	-0.10	0.0840	2.6	-0.2	-1.0	1.2
0632*	4/10/90	-0.10	-0.001	-0.05	-0.01	0.03	-0.05	0.24	-0.10	-0.05	0.003	-0.10	0.0840	2.6	-0.2	-1.0	1.2
0632*	7/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.27	-0.10	-0.05	0.004	-0.10	0.0785	2.8	-0.2	-1.0	1.0
0632*	10/9/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.22	-0.10	-0.05	0.003	-0.10	0.1312	2.8	-0.2	-1.0	-1.0
0632*	1/10/91	-0.10	0.002	-0.01	-0.01	0.02	-0.05	0.25	-0.10	0.05	0.005	-0.10	0.0795	-3.2	-0.2	-1.0	2.7
0632*	4/11/91	-0.10	0.002	-0.01	-0.01	0.02	-0.05	0.29	-0.10	-0.05	0.005	-0.10	0.0931	-2.1	-0.2	-1.0	1.0
0632*	7/9/91	0.14	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	0.003	-0.10	0.0818	2.5	-0.2	-1.0	-1.0
0632*	10/17/91	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.43	-0.10	-0.05	0.018	-0.10	0.1690	-1.8	-0.2	1.6	-1.0
0632*	1/21/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	0.004	-0.10	0.0720	3.8	-0.2	-1.0	1.0
0632*	4/14/92	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.28	-0.10	-0.05	0.008	-0.10	0.0800	4.6	-0.2	1.6	-1.0
0632*	7/14/92	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	0.003	-0.10	0.0950	3.3	-0.2	4.2	2.5
0632*	10/13/92	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.16	-0.10	-0.05	0.003	-0.10	0.1470	7.7	-0.2	-1.0	1.5
0632*	1/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.85	-0.10	-0.05	0.004	-0.10	0.0680	5.6	-0.2	-1.0	1.5
0632*	4/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.10	-0.05	0.002	-0.10	0.1130	8.4	1.3	1.2	8.1
0632*	7/15/93	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.18	-0.10	-0.05	0.005	-0.10	0.0820	-2.2	-0.2	-1.0	1.5
0632*	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.10	-0.05	0.003	-0.10	0.0930	2.9	-0.2	1.2	1.8
0632*	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.34	-0.10	-0.05	-0.001	-0.10	0.0820	5.0	-0.2	-1.0	7.7
0632*	4/14/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.37	-0.10	-0.05	0.001	-0.10	0.0880	4.1	-0.2	2.4	5.5
0632*	7/21/94	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.39	-0.10	-0.05	0.002	-0.10	0.0900	6.0	-0.2	-1.0	8.7
0632*	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.42	-0.10	-0.05	-0.001	-0.10	0.0800	-2.0	-0.2	3.6	1.2
0632*	1/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.43	-0.10	-0.05	-0.001	-0.10	0.0860	-3.0	-0.2	1.7	3.7
0632*	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.52	-0.10	-0.05	0.002	-0.10	0.0770	4.3	-0.2	1.1	6.0
0632*	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.50	-0.10	-0.05	0.002	-0.10	0.0954	-2.6	0.4	-1.0	4.2
0632*	10/3/95	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0899	-2.1	-0.2	3.3	2.6
0632*	1/4/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.74	-0.10	-0.05	-0.001	-0.10	0.0920	-2.7	0.3	1.2	1.8
0632*	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.10	-0.05	-0.001	-0.10	0.0900	-1.8	-0.2	-1.0	5.8
0632*	7/7/96	-0.10	0.014	-0.01	-0.01	-0.01	-0.05	0.61	-0.10	-0.05	0.012	-0.10	0.0920	1.3	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0639	10/8/89	6940.3	6.6	7.40	4,076	410	375	177	6.6	448	2,508	34.2	0.06	4.00	-0.00100	-0.001	-0.005
0639	1/11/90	6939.6	6.7	7.13	4,734	444	478	186	5.6	497	2,830	37.5	0.11	3.40	-0.00100	-0.001	-0.005
0639	4/10/90	6939.0	6.7	7.48	5,351	467	590	193	5.6	565	3,153	40.1	0.11	3.30	-0.00100	-0.001	-0.005
0639	7/10/90	6938.6	6.7	7.08	5,461	419	583	194	5.1	583	3,265	39.0	-0.05	3.00	-0.00100	-0.001	-0.005
0639	10/9/90	6938.4	6.7	7.59	4,043	305	464	176	6.5	516	2,452	27.1	-0.05	2.05	-0.00100	-0.001	-0.005
0639	1/17/91	6938.0	6.2	7.25	4,672	382	508	178	6.3	508	2,944	32.0	-0.05	2.00	-0.00100	-0.001	-0.005
0639	4/10/91	6937.8	6.5	7.51	4,523	347	531	173	7.8	551	2,690	29.2	-0.05	4.80	-0.00100	-0.001	-0.005
0639	7/10/91	6937.4	6.5	7.26	4,677	309	449	150	5.6	555	3,046	27.6	-0.05	3.30	-0.00100	-0.001	-0.005
0639	10/17/91	6937.0	6.4	7.37	4,899	412	531	158	7.1	626	2,803	40.8	-0.05	4.40	-0.00100	-0.001	-0.005
0639	1/21/92	6936.8	6.4	7.20	4,330	409	510	153	5.3	620	2,792	29.4	-0.05	2.93	-0.00100	-0.001	-0.005
0639	4/13/92	6936.7	6.3	7.54	5,005	363	499	165	6.1	618	2,922	33.5	-0.05	3.31	-0.00100	-0.001	-0.005
0639	7/14/92	6936.5	6.3	7.36	4,857	393	507	175	6.6	616	2,845	28.0	-0.05	3.74	-0.00100	-0.001	-0.005
0639	10/13/92	6936.4	6.4	7.55	4,661	335	437	154	6.6	619	2,801	27.0	0.13	2.10	-0.00100	-0.001	-0.005
0639	1/21/93	6936.1	6.5	7.09	3,924	340	416	131	5.8	570	2,359	23.3	0.15	2.00	-0.00100	-0.001	-0.005
0639	4/14/93	6936.0	6.6	7.85	3,417	301	343	123	3.7	561	1,988	18.6	0.07	2.00	-0.00100	-0.001	-0.005
0639	7/15/93	6935.7	6.6	6.91	3,046	300	300	123	6.9	576	1,959	19.2	0.19	1.63	-0.00100	-0.001	-0.005
0639	10/6/93	6934.6	6.6	6.76	3,060	264	321	115	3.6	539	1,862	16.8	-0.05	2.30	-0.00100	-0.001	-0.005
0639	1/5/94	6935.6	6.5	7.38	3,018	323	325	104	3.3	559	1,781	17.0	0.22	1.38	-0.00100		
0639	4/13/94	6935.3	6.7	7.10	3,058	303	304	104	2.8	458	1,862	15.8	0.18	1.31	-0.00100		
0639	10/5/94	6935.5	6.6	7.99	3,396	368	348	119	2.6	373	2,142	16.3	0.15	1.61	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0639	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.27	-0.10	-0.05	0.001	-0.10	0.2910	-2.8	14.3	-1.0	17.8
0639	1/11/90	-0.10	-0.001	-0.05	-0.01	0.04	-0.05	0.41	-0.10	-0.05	-0.001	-0.10	0.2760	-1.2	3.4	-1.0	4.0
0639	4/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.56	-0.10	-0.05	0.002	-0.10	0.0960	2.5	-0.2	-1.0	1.7
0639	7/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.89	-0.10	-0.05	0.001	-0.10	0.2416	-1.2	-0.2	-1.0	-1.0
0639	10/9/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.99	-0.10	-0.05	-0.001	-0.10	0.2623	-1.5	-0.2	1.9	-1.0
0639	1/17/91	0.12	-0.001	-0.01	-0.01	-0.01	-0.05	1.34	-0.10	-0.05	0.002	-0.10	0.1984	-2.4	-0.2	-1.0	1.9
0639	4/10/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.14	-0.10	-0.05	0.002	-0.10	0.1960	-1.2	-0.2	-1.0	-1.0
0639	7/10/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	1.47	-0.10	-0.05	0.035	-0.10	0.2739	-2.0	-0.2	-1.0	1.0
0639	10/17/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.48	-0.10	-0.05	0.002	-0.10	0.2720	-1.2	-0.2	-1.0	-1.0
0639	1/21/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.27	-0.10	-0.05	0.002	-0.10	0.1700	2.5	-0.2	2.2	-1.0
0639	4/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.59	-0.10	-0.05	0.006	-0.10	0.3670	4.9	-0.2	3.3	2.2
0639	7/14/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.41	-0.10	-0.05	0.002	-0.10	0.2450	1.9	-0.2	1.9	-1.0
0639	10/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.51	-0.10	-0.05	0.003	-0.10	0.2230	4.3	-0.2	-1.0	-1.0
0639	1/21/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.002	-0.10	0.0940	-4.3	-0.2	3.9	-1.0
0639	4/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.67	-0.10	-0.05	0.003	-0.10	0.0800	12.0	-0.2	-1.0	6.4
0639	7/15/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.44	-0.10	-0.05	0.009	-0.10	0.1090	-1.2	-0.2	-1.0	-1.0
0639	10/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.15	-0.10	-0.05	0.003	-0.10	0.0710	4.9	-0.2	2.0	5.8
0639	1/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.71	-0.10	-0.05	-0.001	-0.10	0.1070	-4.8	-0.2	3.2	4.8
0639	4/13/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.18	-0.10	-0.05	0.002	-0.10	0.1100	-1.3	-0.2	7.2	-1.0
0639	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.80	-0.10	-0.05	-0.001	-0.10	0.0700	-7.2	-0.2	-1.0	10.8

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0642	10/8/89	6927.5	6.8	7.40	4,140	634	227	177	3.6	414	2,182	37.9	0.08	93.0	-0.00100	-0.001	-0.005
0642	1/11/90	6926.5	6.8	7.20	4,080	628	229	174	2.6	421	2,176	26.5	0.06	85.0	-0.00100	-0.001	-0.005
0642	4/10/90	6925.7	6.8	7.50	4,161	634	250	171	2.4	430	2,129	35.7	0.12	75.0	-0.00100	-0.001	-0.005
0642	7/10/90	6924.8	6.9	7.30	4,232	714	263	171	1.9	426	2,209	34.0	-0.05	83.4	-0.00100	-0.001	-0.005
0642	10/9/90	6924.1	6.7	7.62	4,168	582	242	174	3.2	415	2,319	34.4	-0.05	66.9	-0.00100	-0.001	-0.005
0642	1/17/91	6923.5	6.7	7.58	4,131	676	268	181	2.4	414	2,323	35.1	-0.05	61.5	-0.00100	-0.001	-0.005
0642	4/10/91	6922.8	6.8	7.84	4,110	623	273	162	4.4	432	2,216	34.1	-0.05	67.0	-0.00100	-0.001	-0.005
0642	7/10/91	6922.2	6.7	7.49	4,089	625	257	155	2.8	423	2,309	33.1	-0.05	68.1	-0.00100	-0.001	-0.005
0642	10/17/91	6921.6	6.7	7.52	4,093	639	233	167	3.6	442	2,229	34.5	-0.05	55.4	-0.00100	-0.001	-0.005
0642	1/21/92	6920.6	6.8	7.35	4,133	684	223	158	2.4	425	2,307	75.0	-0.05	38.1	-0.00100	-0.001	-0.005
0642	4/13/92	6920.0	6.7	7.43	4,096	562	238	185	3.1	399	1,851	31.5	-0.05	29.0	-0.00100	-0.001	-0.005
0642	7/14/92	6919.3	6.4	7.72	4,196	668	266	183	3.2	405	2,518	28.4	-0.05	46.0	-0.00100	-0.001	-0.005
0642	10/13/92	6918.5	6.8	7.59	3,909	617	260	169	3.0	422	2,721	29.0	-0.05	45.9	-0.00100	-0.001	-0.005
0642	1/21/93	6917.6	6.9	7.52	4,295	642	268	157	3.5	422	2,575	31.6	-0.05	32.8	-0.00100	-0.001	-0.005
0642	4/14/93	6917.0	7.0	7.95	4,460	640	283	166	2.2	453	2,621	30.4	-0.05	35.1	-0.00100	-0.001	-0.005
0642	7/15/93	6916.2	7.0	7.02	4,023	598	266	182	5.1	478	2,657	33.0	0.08	2.20	-0.00100	-0.001	-0.005
0642	10/6/93	6912.9	7.1	7.10	4,659	598	325	192	2.2	432	2,849	28.6	-0.05	29.5	-0.00100	-0.001	-0 005
0642	1/5/94	6915.0	7.1	7.68	4,362	580	326	150	2.8	450	2,709	29.5	-0.05	22.3	-0.00100		
0642	4/13/94	6914.4	7.1	7.33	4,446	610	334	149	2.80	442	2,782	30.0	0.18	21.2	-0.00100		
0642	7/21/94	6913.7	7.1	7.37	4,667	789	374	164	4.10	471	3,117	27.3	0.08	21.3	-0.00100		
0642	10/5/94	6913.3	7.0	7.70	4,699	649	377	178	4.50	490	2,863	29.8	0.11	20.6	-0.00100		
0642	1/5/95	6912.6	7.0	7.57	4,800	630	379	163	5.20	505	2,823	30.7	0.17	18.2	-0.00100		
0642	4/5/95	6912.6	7.0	7.44	4,804	583	390	156	3.92	519	2,869	30.0	0.20	17.0	-0.00100		
0642	7/6/95	6911.6	7.0	7.99	4,613	605	377	167	5.30	527	2,761	29.0	-0.05	20.7	-0.00100		
0642	10/4/95	6911.8	7.0														

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0642	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0830	4.0	3.6	-1.0	6.4
0642	1/11/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.001	-0.10	0.0010	-1.2	0.2	-1.0	1.0
0642	4/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.10	-0.10	-0.05	0.002	-0.10	0.0360	-5.7	4.3	-1.0	0.4
0642	7/10/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0550	-1.0	-0.2	-1.0	-1.0
0642	10/9/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0446	-1.2	-0.2	-1.0	-1.0
0642	1/17/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0357	-1.2	-0.2	-1.0	-1.0
0642	4/10/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	-0.01	-0.10	-0.05	0.001	-0.10	0.0363	-1.2	-0.2	3.0	-1.0
0642	7/10/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	-0.01	-0.10	-0.05	0.004	-0.10	0.0557	-1.8	-0.2	3.2	-1.0
0642	10/17/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.03	-0.10	-0.05	0.002	-0.10	0.0400	-1.3	-0.2	-1.0	-1.0
0642	1/21/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0290	-1.5	-0.2	-1.0	-1.0
0642	4/13/92	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.04	-0.10	-0.05	0.002	-0.10	0.1080	-1.5	-0.2	-1.0	-1.0
0642	7/14/92	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.003	-0.10	0.0500	1.5	-0.2	-1.0	-1.0
0642	10/13/92	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.001	-0.10	0.0550	3.3	-0.2	-1.0	-1.0
0642	1/21/93	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.003	-0.10	0.0460	-1.4	-0.2	2.7	1.3
0642	4/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	0.001	-0.10	0.0600	-1.7	-0.2	-1.0	-1.0
0642	7/15/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	0.003	-0.10	0.0510	-1.5	-0.2	-1.0	-1.0
0642	10/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0360	1.8	-0.2	-1.0	-1.0
0642	1/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	-0.001	-0.10	0.0460	-1.4	-0.2	3.1	-1.0
0642	4/13/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.003	-0.10	0.0430	-1.9	-0.2	2.7	-1.0
0642	7/21/94	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.006	-0.10	0.0380	5.4	-0.2	3.5	5.3
0642	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	-0.001	-0.10	0.0390	2.4	-0.2	3.9	3.4
0642	1/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	-0.001	-0.10	0.0380	-2.3	-0.2	-1.0	1.5
0642	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.002	-0.10	0.0420	6.3	-0.2	2.8	7.9
0642	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.003	-0.10	0.0549	-1.6	-0.2	1.2	4.8
0642	10/4/95																

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0644	10/8/89	6935.7	6.8	7.50	4,778	860	227	203	5.80	676	1,776	89.3	0.10	300	-0.00100	-0.001	-0.005
0644	1/11/90	6935.0	6.7	7.16	4,994	860	254	220	4.15	653	1,789	99.0	0.07	384	-0.00100	-0.001	-0.005
0644	4/10/90	6934.3	6.8	7.52	5,426	854	260	222	4.20	623	1,669	100.0	0.11	396	-0.00100	-0.001	-0.005
0644	7/10/90	6933.8	6.8	7.24	6,272	855	274	236	3.70	633	1,706	94.8	-0.05	615	-0.00100	-0.001	-0.005
0644	10/9/90	6933.0	6.7	7.68	5,576	809	280	232	5.10	586	1,689	97.4	-0.05	377	-0.00100	-0.001	-0.005
0644	1/17/91	6932.5	6.6	7.28	5,447	922	294	242	5.60	526	1,731	97.0	-0.05	512	-0.00100	-0.001	-0.005
0644	4/10/91	6932.1	6.6	7.80	5,265	855	293	244	6.20	616	1,661	99.5	0.05	435	-0.00100	-0.001	-0.005
0644	7/10/91	6931.7	6.7	7.55	5,991	845	272	218	4.20	586	1,852	96.2	0.06	534	-0.00100	-0.001	-0.005
0644	10/17/91	6931.0	6.6	7.50	5,608	929	291	251	7.00	617	1,839	111	-0.05	401	-0.00100	-0.001	-0.005
0644	1/21/92	6930.5	6.7	7.40	4,715	794	280	225	4.10	591	1,896	98.0	-0.05	234	-0.00100	-0.001	-0.005
0644	4/13/92	6930.0	6.6	7.40	5,318	786	271	268	5.50	539	1,851	103	0.08	244	-0.00100	-0.001	-0.005
0644	7/14/92	6929.0	6.3	7.38	5,770	824	270	285	6.60	464	1,884	92.1	-0.05	338	-0.00100	-0.001	-0.005
0644	10/13/92	6929.0	6.7	7.34	5,731	771	263	241	5.40	488	2,121	97.5	0.07	250	-0.00100	-0.001	-0.005
0645	10/8/89	6941.3	7.1	7.40	7,992	957	440	518	6.90	378	1,982	159	0.13	798	-0.00100	-0.001	0.052
0645	1/11/90	6940.8	6.7	7.18	8,426	929	539	574	4.48	354	2,299	168	0.14	926	-0.00100	-0.001	0.074
0645	4/10/90	6940.6	6.9	7.54	9,179	917	600	560	4.20	369	2,489	169	0.13	840	-0.00100	-0.001	-0.005
0645	7/10/90	6940.0	7.0	7.28	10,530	829	680	637	4.20	365	2,728	157	-0.05	1225	-0.00100	-0.001	-0.005
0645	10/10/90	6940.0	6.9	7.41	9,343	742	604	644	4.60	351	2,674	150	0.13	800	-0.00100	-0.001	0.068

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0644	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.018	-0.10	0.0930	-1.4	0.7	-1.0	-1.0
0644	1/11/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.011	-0.10	0.0710	-1.3	1.2	-1.0	4.2
0644	4/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.007	-0.10	0.0690	2.1	-0.2	-1.0	1.2
0644	7/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.04	-0.10	-0.05	0.007	-0.10	0.1100	-1.6	-0.2	-1.0	-1.0
0644	10/9/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.04	-0.10	-0.05	0.004	-0.10	0.0656	-1.2	-0.2	-1.0	-1.0
0644	1/17/91	0.14	-0.001	-0.01	-0.01	0.01	-0.05	0.07	-0.10	-0.05	0.002	-0.10	0.0627	-6.8	-0.2	1.3	-1.0
0644	4/10/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.07	-0.10	-0.05	0.005	-0.10	0.0608	2.3	-0.2	3.8	-1.0
0644	7/10/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.05	-0.10	-0.05	0.007	-0.10	0.1133	-1.6	-0.2	-1.0	-1.0
0644	10/17/91	0.14	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.008	-0.10	0.0780	-1.6	-0.2	4.9	-1.0
0644	1/21/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.004	-0.10	0.0420	2.1	-0.2	-1.0	2.0
0644	4/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.008	-0.10	0.0430	-2.6	-0.2	-1.0	1.8
0644	7/14/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	0.005	-0.10	0.0800	3.9	-0.2	-1.0	-1.0
0644	10/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	0.012	-0.10	0.0109	-3.2	-0.2	-1.0	2.3
0645	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.20	-0.10	-0.05	0.040	-0.10	0.0680	-1.2	-0.2	-1.0	-1.0
0645	1/11/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.30	-0.10	-0.05	0.022	-0.10	0.0380	-1.2	-0.2	-1.0	1.1
0645	4/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.90	-0.10	-0.05	0.022	-0.10	0.0410	1.5	-0.2	-1.0	1.0
0645	7/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.72	-0.10	-0.05	0.018	-0.10	0.0520	-1.2	1.1	-1.0	1.0
0645	10/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.54	-0.10	-0.05	0.016	-0.10	-0.0340	-1.8	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0801	10/17/89		6.5	6.69	9,214	626	1,102	472	23.0	1,940	4,591	246	33.6	26.0	0.00180	-0.001	-0.005
0801	1/11/90		6.5	6.74	8,830	628	997	470	14.9	2,111	4,416	262	25.1	62.0	-0.00100	-0.001	-0.005
0801	4/5/90		6.8	7.16	5,543	774	852	500	9.1	2,103	2,946	228	9.30	115	-0.00100	-0.001	-0.005
0801	7/9/90		6.5	6.82	9,507	626	1,095	436	15.5	2,020	4,826	254	40.0	39.6	0.00192	-0.001	-0.005
0801	10/3/90		6.3	7.09	9,800	565	1,187	493	15.3	1,875	5,090	269	34.6	21.1	0.00160	-0.001	-0.005
0801	1/3/91		6.1	6.84	9,316	628	1,232	482	23.6	1,930	4,650	239	32.4	31.4	0.00272	-0.001	-0.005
0801	4/11/91		6.1	7.09	9,510	601	1,092	415	16.6	1,991	4,788	274	30.0	27.5	0.00340	-0.001	-0.005
0801	7/11/91		6.3	7.08	9,566	620	1,142	410	12.8	1,872	5,121	240	40.0	26.5	0.00350	-0.001	-0.005
0801	10/23/91		6.3	7.08	9,049	566	1,127	432	13.1	1,870	4,508	271	27.7	10.1	0.00330	-0.001	-0.005
0801	1/16/92		6.2	7.28	8,346	502	961	441	13.0	1,825	4,891	247	41.5	13.6	0.00360	-0.001	-0.005
0801	4/13/92		6.2	7.11	9,240	518	635	444	15.1	1,869	4,650	255	31.7	12.8	0.00420	-0.001	-0.005
0801	7/8/92		6.1	7.38	8,276	635	634	539	16.0	1,915	4,512	246	28.1	38.1	0.00300	-0.001	-0.005
0801	10/8/92		6.4	7.22	9,244	517	1,003	478	17.4	1,832	5,132	229	39.5	14.7	0.00380	-0.001	-0.005
0801	1/7/93		6.3	7.28	8,060	555	1,030	469	14.1	1,575	4,709	249	42.8	9.9	0.00460	-0.001	-0.005
0801	4/7/93		6.4	7.19	8,253	476	955	472	12.1	1,603	4,867	247	43.9	10.2	0.00400	-0.001	-0.005
0801	7/14/93		6.4	6.93	8,158	555	1,011	432	13.0	1,709	4,867	247	34.0	14.7	0.00450	-0.001	-0.005
0801	10/7/93		6.3	7.08	7,688	525	931	393	12.6	1,641	4,231	229	32.0	19.0	0.00350	-0.001	-0.005
0801	1/6/94		6.4	6.82	7,788	522	909	438	12.6	1,540	4,519	230	32.3	28.6	0.00430		
0801	4/12/94		6.4	6.80	8,786	515	905	415	12.8	1,454	5,061	233	42.7	9.9	0.00270		
0801	7/27/94		6.4	7.24	8,502	599	902	382	13.3	1,530	4,930	222	35.6	25.2	0.00420		
0801	10/5/94		6.2	7.29	8,093	564	998	440	13.1	1,619	4,544	236	29.9	10.7	0.00325		
0801	1/4/95		6.2	6.97	8,714	635	945	425	14.7	1,599	4,925	226	45.0	9.57	0.00358		
0801	4/6/95		6.2	6.70	8,297	560	910	402	13.1	1,652	4,455	258	31.8	10.2	0.00228		
0801	7/6/95		6.3	7.64	8,028	535	883	405	13.7	1,627	4,335	230	30.4	8.82	0.00411		
0801	10/4/95		6.3	7.29	8,115	535	890	406	12.1	1,619	4,668	212	24.4	11.0	0.00291		
0801	1/3/96		6.5	7.18	7,962	629	952	414	12.3	1,620	4,640	242	16.8	9.91	0.00281		
0801	4/2/96		6.5	7.31	8,061	550	1000	408	13.0	1,623	4,370	224	21.5	9.08	0.00336		
0801	7/17/96		6.3	6.79	8,133	527	864	411	15.1	1,532	4,100	241	20.6	8.22	0.00432		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0801	10/17/89	-0.10	-0.001	-0.05	-0.01	0.48	-0.05	31.0	-0.01	0.31	-0.001	-0.10	0.0636	-2.1	1.6	2.4	3.1
0801	1/11/90	-0.10	-0.001	-0.05	-0.01	0.13	-0.05	19.0	-0.10	0.14	-0.001	-0.10	0.0570	-1.7	2.3	-1.0	4.0
0801	4/5/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	5.8	-0.10	0.15	0.001	-0.10	0.0990	-1.6	-0.2	-1.0	1.0
0801	7/9/90	0.19	-0.001	-0.05	-0.01	0.08	-0.05	31.6	-0.10	0.17	0.001	-0.10	0.0710	-1.2	-0.2	-1.0	-1.0
0801	10/3/90	-0.10	-0.001	-0.05	-0.01	0.18	-0.05	39.6	-0.10	0.13	-0.001	-0.10	0.0370	-2.0	-0.2	-1.0	-1.0
0801	1/3/91	0.59	-0.001	-0.01	0.01	0.20	-0.05	32.4	-0.10	0.17	-0.001	-0.10	0.0654	-2.8	-0.2	-1.0	2.0
0801	4/11/91	0.19	-0.001	-0.01	-0.01	0.13	-0.05	30.1	-0.10	0.13	-0.001	-0.10	0.0470	-2.1	-0.2	-1.0	1.0
0801	7/11/91	0.12	-0.001	-0.01	-0.01	0.08	-0.05	32.0	-0.10	-0.05	0.001	-0.10	0.1228	3.9	-0.2	2.4	2.0
0801	10/23/91	0.63	-0.001	-0.01	-0.01	0.09		34.0	-0.10	0.10	-0.001	-0.10	0.1860	5.3	-0.2	-1.0	-1.0
0801	1/16/92	-0.10	-0.001	-0.01	-0.01	0.11	-0.05	32.5	-0.10	0.12	0.005	-0.10	0.0310	4.0	-0.2	1.5	-1.0
0801	4/13/92	0.18	-0.001	-0.01	-0.01	0.09	-0.05	31.3	-0.10	0.10	0.005	-0.10	0.0340	1.5	-0.2	-1.0	-1.0
0801	7/8/92	0.23	-0.001	-0.01	-0.01	0.03	-0.05	24.3	-0.10	-0.05	0.001	-0.10	0.0400	-1.9	-0.2	-1.0	-1.0
0801	10/8/92	0.30	-0.001	-0.01	-0.01	0.06	-0.05	37.0	-0.10	0.07	-0.001	-0.10	0.0220	-2.7	-0.2	-1.0	1.9
0801	1/7/93	-0.10	-0.001	-0.01	-0.01	0.12	-0.05	45.3	-0.10	-0.05	0.006	-0.10	0.0300	-1.7	-0.2	-1.0	-1.0
0801	4/7/93	-0.10	-0.001	0.00	-0.01	0.11	-0.05	45.1	-0.10	0.16	-0.001	-0.10	0.0690	-1.4	-0.2	1.8	-1.0
0801	7/14/93	-0.10	-0.001	-0.01	-0.01	0.08	-0.05	30.0	-0.10	0.10	-0.001	-0.10	0.0280	4.5	-0.2	-1.0	-1.0
0801	10/7/93	-0.10	-0.001	-0.01	-0.01	0.09	-0.05	31.9	-0.10	-0.05	-0.001	-0.10	0.0350	4.8	-0.2	-1.0	2.0
0801	1/6/94	0.70	-0.001	-0.01	-0.01	0.09	-0.05	33.4	-0.10	0.09	-0.001	-0.10	0.0470	2.3	-0.2	-1.0	3.9
0801	4/12/94	0.36	-0.001	-0.01	-0.01	0.12	-0.05	34.3	-0.10	0.15	-0.001	-0.10	0.0390	-1.9	-0.2	3.2	-1.0
0801	7/27/94	-0.10	-0.001	-0.01	-0.01	0.10	-0.05	20.5	-0.10	0.09	0.001	-0.10	0.0360	6.3	-0.2	1.9	5.5
0801	10/5/94	0.44	-0.001	-0.01	-0.01	-0.01	-0.05	20.4	-0.10	0.07	-0.001	-0.10	0.0360	2.5	-0.2	1.0	3.5
0801	1/4/95	0.51	-0.001	-0.01	-0.01	0.06	-0.05	31.5	-0.10	0.09	-0.001	-0.10	0.0340	-2.2	-0.2	-1.0	2.9
0801	4/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	23.4	-0.10	-0.05	-0.001	-0.10	0.0390	4.0	-0.2	1.9	5.4
0801	7/6/95	-0.10	-0.001	-0.01	-0.01	0.03	-0.05	23.0	-0.10	-0.05	0.001	-0.10	0.0435	3.0	0.3	-1.0	4.8
0801	10/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	18.1	-0.10	-0.05	-0.001	-0.10	0.0380	-2.3	0.6	-1.0	1.1
0801	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	18.6	-0.10	-0.05	-0.001	-0.10	0.0420	-2.3	-0.2	3.1	2.0
0801	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	17.0	-0.10	-0.05	-0.001	-0.10	0.0630	-1.3	-0.2	2.9	3.0
0801	7/17/96	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	19.5	-0.10	-0.05	-0.001	-0.10	0.0510	-1.9	1.1	-1.0	1.2

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0802	10/17/89		6.5	6.89	6,744	944	519	374	6.7	2,288	2,371	221	0.22	113	-0.00100	-0.001	-0.005
0802	1/11/90		6.5	6.98	6,978	849	530	350	5.1	2,547	2,663	229	0.17	124	0.00190	-0.001	-0.005
0802	4/5/90		6.5	6.80	6,854	877	570	380	5.2	2,416	2,528	230	0.12	128	-0.00100	-0.001	-0.005
0802	7/9/90		6.6	7.02	6,937	866	605	378	5.6	2,347	2,625	213	-0.05	133	-0.00100	-0.001	-0.005
0802	10/3/90		6.6	7.18	6,898	944	586	383	5.6	1,940	2,606	224	-0.05	89.7	-0.00100	-0.001	-0.005
0802	1/3/91		6.5	7.22	6,727	898	649	397	8.6	2,318	2,691	230	0.08	152	-0.00100	-0.001	-0.005
0802	4/11/91		6.3	7.65	6,711	893	615	382	6.1	2,171	2,561	240	-0.05	165	-0.00100	-0.001	-0.005
0802	7/11/91		6.4	7.21	7,065	829	624	335	4.6	1,940	2,857	218	-0.08	127	-0.00100	-0.001	-0.005
0802	10/23/91		6.4	7.41	6,795	800	543	362	4.6	2,250	2,775	237	0.36	99.0	-0.00100	-0.001	-0.005
0802	1/16/92		6.3	7.10	6,541	765	657	363	4.4	1,662	2,916	235	0.57	117	-0.00100	-0.001	-0.005
0802	4/13/92		6.2	6.84	7,383	852	592	393	5.5	2,404	2,730	234	0.09	81.3	-0.00100	-0.001	-0.005
0802	7/8/92		6.2	7.32	5,929	841	608	445	6.2	1,777	2,615	235	0.16	100	-0.00100	-0.001	-0.005
0802	10/8/92		6.8	7.21	7,274	809	648	456	8.2	2,245	3,057	228	-0.05	136	-0.00100	-0.001	-0.005
0802	1/7/93		6.8	7.46	6,306	782	660	397	6.0	2,150	2,980	236	0.14	105	-0.00100	-0.001	-0.005
0802	4/7/93		6.5	7.15	6,486	732	644	421	4.1	2,223	3,023	237	0.50	93.9	-0.00100	-0.001	-0.005
0802	7/14/93		6.4	7.00	7,413	861	720	393	4.6	2,208	3,183	241	0.32	78.3	-0.00100	-0.001	-0.005
0802	10/7/93		6.4	6.98	6,416	659	700	354	4.2	1,972	2,935	218	0.39	110	-0.00100	-0.001	-0.005
0802	1/6/94		6.4	6.75	6,614	749	641	389	4.0	2,125	3,228	224	1.00	80.3	-0.00100		
0802	4/12/94		6.3	6.99	7,568	731	706	367	4.7	2,047	3,596	184	1.24	96.2	-0.00100		
0802	7/27/94		6.4	7.35	7,680	866	715	355	5.3	2,237	3,484	217	1.03	106	-0.00100		
0802	10/5/94		6.3	7.45	7,578	790	826	389	5.8	2,288	3,277	225	1.47	97.3	-0.00100		
0802	1/4/95		6.6	7.29	7,845	853	756	376	6.5	2,323	3,436	240	1.66	86.1	-0.00100		
0802	4/6/95		6.5	6.75	7,761	786	714	380	5.18	2,269	3,551	268	1.82	93.0	-0.00100		
0802	7/6/95		6.4	7.43	7,216	750	735	375	5.8	2,257	3,310	236	1.83	84.6	-0.00100		
0802	10/4/95		6.5	7.56	7,003	738	754	369	5.3	2,208	3,301	190	2.23	88.4	-0.00100		
0802	1/3/96		6.4	7.92	7,477	817	805	361	5.5	2,166	3,530	222	1.84	85.8	-0.00100		
0802	4/2/96		6.4	7.37	7,595	796	845	380	11.4	2,250	3,560	227	1.88	88.4	-0.00100		
0802	7/17/96		6.3	6.96	7,488	701	723	366	6.0	2,196	3,164	236	1.60	91.2	0.00121		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0802	10/17/89	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.20	-0.01	-0.05	-0.001	-0.10	0.1540	-1.6	-0.2	-1.0	1.5
0802	1/11/90	-0.10	-0.001	-0.05	-0.01	0.04	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.1640	-1.3	1.3	-1.0	1.8
0802	4/5/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.1280	-1.7	-0.2	1.2	1.1
0802	7/9/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.23	-0.10	-0.05	0.001	-0.10	0.1230	-1.2	-0.2	-1.0	-1.0
0802	10/3/90	-0.10	0.001	-0.05	-0.01	0.02	-0.05	0.20	-0.10	-0.05	-0.001	-0.10	0.1812	1.4	-0.2	1.4	-1.0
0802	1/3/91	-0.10	-0.001	-0.01	0.01	0.01	-0.05	0.23	-0.10	0.05	0.001	-0.10	0.0218	2.0	-0.2	-1.0	-1.0
0802	4/11/91	-0.10	-0.001	-0.01	0.03	0.01	-0.05	0.18	-0.10	-0.05	-0.001	-0.10	0.1568	-1.2	-0.2	2.1	-1.0
0802	7/11/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.24	-0.10	-0.05	0.001	-0.10	0.1983	-1.2	-0.2	2.1	-1.0
0802	10/23/91	-0.10	-0.001	-0.01	-0.01	0.02		0.28	-0.10	-0.05	-0.001	-0.10	0.2200	-2.3	-0.2	-1.0	-1.0
0802	1/16/92	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.35	-0.10	-0.05	-0.001	-0.10	0.1440	-1.5	-0.2	-1.0	-1.0
0802	4/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.10	-0.05	0.004	-0.10	0.0450	-1.2	-0.2	2.7	-1.0
0802	7/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.40	-0.10	-0.05	0.001	-0.10	0.1400	5.6	-0.2	-1.0	1.5
0802	10/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.40	-0.10	-0.01	0.002	-0.10	0.1240	-1.8	-0.2	-1.0	-1.0
0802	1/7/93	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.44	-0.10	-0.05	0.006	-0.10	0.1270	-1.2	-0.2	-1.0	-1.0
0802	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.10	-0.05	0.001	-0.10	0.2490	-1.2	-0.2	-1.0	-1.0
0802	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.53	-0.10	-0.05	0.003	-0.10	0.1540	-1.5	-0.2	-1.0	-1.0
0802	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.52	-0.10	-0.05	0.004	-0.10	0.1430	4.8	-0.2	1.6	-1.0
0802	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.10	-0.05	-0.001	-0.10	0.1480	2.1	-0.2	-1.0	3.9
0802	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.72	-0.10	-0.05	0.001	-0.10	0.1760	-1.2	-0.2	-1.0	-1.0
0802	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.10	-0.05	0.003	-0.10	0.1650	-1.8	-0.2	-1.0	-1.0
0802	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.57	-0.10	-0.05	-0.001	-0.10	0.1530	-1.8	-0.2	-1.0	-1.0
0802	1/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.78	-0.10	-0.05	-0.001	-0.10	0.1420	2.6	-0.2	-1.0	3.9
0802	4/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.76	-0.10	-0.05	-0.001	-0.10	0.1590	-1.2	-0.2	2.6	-1.0
0802	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.69	-0.10	-0.05	0.002	-0.10	0.1883	-1.3	-0.2	-1.0	1.5
0802	10/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.73	-0.10	-0.05	0.024	-0.10	0.1570	-1.3	-0.2	-1.0	1.4
0802	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.022	-0.10	0.1680	-1.4	-0.2	3.6	-1.0
0802	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.80	-0.10	-0.05	-0.001	-0.10	0.1670	-1.2	-0.2	-1.0	1.2
0802	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.81	-0.10	-0.05	-0.001	-0.10	0.0860	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
0803	10/17/89		6.7	6.91	4,852	722	337	208	12.2	1,379	2,258	108	1.75	34.0	-0.00100	-0.001	-0.005
0803	1/11/90		6.6	7.16	5,212	769	371	241	9.8	1,647	2,387	133	1.29	36.0	-0.00100	-0.001	-0.005
0803	4/5/90		6.7	7.02	5,394	822	410	245	9.4	1,696	2,321	138	1.35	42.0	-0.00100	-0.001	-0.005
0803	7/9/90		6.6	7.18	5,416	891	417	233	9.8	1,625	2,382	127	0.92	42.2	-0.00100	-0.001	-0.005
0803	10/3/90		6.5	7.29	5,618	861	336	245	12.0	1,659	2,299	151	0.36	40.0	-0.00100	-0.001	-0.005
0803	1/3/91		6.6	7.25	5,305	779	384	256	31.8	1,598	2,439	144	1.41	57.5	-0.00100	-0.001	-0.005
0803	4/11/91		6.5	7.65	5,244	820	416	263	11.3	1,702	2,376	158	0.85	63.0	-0.00100	-0.001	-0.005
0803	7/11/91		6.5	7.27	5,616	745	349	219	9.1	1,690	2,547	195	0.89	71.3	-0.00100	-0.001	-0.005
0803	10/23/91		6.6	7.39	5,402	786	448	263	9.5	1,273	2,446	174	1.25	35.3	-0.00100	-0.001	-0.005
0803	1/16/92		6.5	7.19	5,155	706	398	255	9.8	1,375	2,451	160	1.66	51.8	-0.00100	-0.001	-0.005
0803	4/13/92		6.3	7.01	5,265	685	360	242	10.3	1,571	2,346	180	1.87	19.1	-0.00100	-0.001	-0.005
0803	7/8/92		6.2	7.46	4,617	804	384	272	11.5	1,611	2,192	137	1.90	25.4	-0.00100	-0.001	-0.005
0803	10/8/92		6.5	7.79	5,982	827	464	347	14.0	1,952	2,661	185	0.75	15.7	-0.00100	-0.001	-0.005
0803	1/7/93		6.3	7.32	5,851	851	430	305	12.1	1,879	2,522	185	1.08	38.8	-0.00100	-0.001	-0.005
0803	4/7/93		6.4	7.14	5,631	773	481	324	8.7	1,806	2,666	176	0.90	45.3	-0.00100	-0.001	-0.005
0803	7/14/93		6.6	7.24	5,726	895	452	303	9.8	1,878	2,833	178	1.09	21.7	-0.00100	-0.001	-0.005
0803	10/7/93		6.5	7.20	5,445	821	451	262	10.2	2,000	2,482	174	1.12	33.4	-0.00100	-0.001	-0.005
0803	1/6/94		6.7	7.12	5,648	776	460	307	9.2	1,656	2,754	170	0.92	31.6	-0.00100		
0803	4/12/94		6.5	7.10	6,510	770	519	292	9.9	1,743	3,205	175	1.03	28.0	-0.00100		
0803	7/27/94		6.5	7.41	6,003	909	456	303	11.3	1,890	2,956	172	0.74	24.0	-0.00100		
0803	10/5/94		6.3	7.49	5,943	846	503	302	10.6	1,845	2,713	163	1.28	31.3	-0.00100		
0803	1/4/95		6.4	7.16	6,350	928	539	300	12.1	1,948	2,885	184	1.12	34.3	-0.00100		
0803	4/6/95		6.4	6.73	6,220	810	498	281	10.1	1,935	3,018	196	1.03	22.7	-0.00100		
0803	7/6/95		6.5	7.41	6,150	840	535	305	11.2	1,848	2,870	198	0.88	30.7	-0.00100		
0803	10/4/95		6.8	7.36	6,000	786	556	284	9.9	2,017	2,840	180	1.09	33.6	-0.00100		
0803	1/3/96		6.5	7.16	6,427	893	609	307	10.3	1,929	3,160	174	0.62	30.6	-0.00100		
0803	4/2/96		6.6	7.43	6,557	831	639	310	10.8	2,014	3,160	198	0.66	32.5	-0.00100		
0803	7/17/96		6.3	6.70	6,277	735	490	287	11.2	1,967	2,869	184	0.98	29.0	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0803	10/17/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.80	-0.01	-0.05	-0.001	-0.10	0.2060	-1.2	-0.2	-1.0	1.0
0803	1/11/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.50	-0.10	-0.05	-0.001	-0.10	0.1160	-2.1	1.3	-1.0	1.6
0803	4/5/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.00	-0.10	-0.05	-0.001	-0.10	0.0900	-1.5	-0.2	-1.0	0.9
0803	7/9/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.98	-0.10	-0.05	-0.001	-0.10	0.1350	-1.2	-0.2	-1.0	-1.0
0803	10/3/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.90	-0.10	-0.05	-0.001	-0.10	0.1711	-1.2	-0.2	-1.0	-1.0
0803	1/3/91	-0.10	-0.001	-0.01	0.01	0.01	-0.05	1.00	-0.10	-0.05	-0.001	-0.10	0.1292	-1.9	-0.2	-1.0	-1.0
0803	4/11/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.82	-0.10	-0.05	-0.001	-0.10	0.0853	-1.6	-0.2	-1.0	-1.0
0803	7/11/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.58	-0.10	-0.05	0.007	-0.10	0.1322	-1.3	-0.2	-1.0	-1.0
0803	10/23/91	-0.10	-0.001	-0.01	-0.01	0.02		0.57	-0.10	-0.05	-0.001	-0.10	0.1350	-2.6	-0.2	-1.0	-1.0
0803	1/16/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.47	-0.10	-0.05	0.003	-0.10	0.0560	-1.3	-0.2	-1.0	-1.0
0803	4/13/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.43	-0.10	-0.05	0.002	-0.10	0.1380	-1.2	-0.2	-1.0	-1.0
0803	7/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.30	-0.10	-0.05	-0.001	-0.10	0.0400	-1.3	-0.2	-1.0	-1.0
0803	10/8/92	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.61	-0.10	-0.05	-0.001	-0.10	0.0680	-1.8	-0.2	-1.0	-1.0
0803	1/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.64	-0.10	-0.05	0.003	-0.10	0.0850	-1.2	-0.2	1.2	-1.0
0803	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.98	-0.10	-0.05	-0.001	-0.10	0.1700	-1.3	-0.2	-1.0	-1.0
0803	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.03	-0.10	-0.05	-0.001	-0.10	0.0620	-1.6	-0.2	-1.0	-1.0
0803	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.12	-0.10	-0.05	-0.001	-0.10	0.0690	8.2	-0.2	-1.0	-1.0
0803	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.92	-0.10	-0.05	-0.001	-0.10	0.0700	-1.5	-0.2	-1.0	-1.0
0803	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.72	-0.10	-0.05	-0.001	-0.10	0.1000	-1.6	-0.2	3.2	-1.0
0803	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.17	-0.10	-0.05	0.004	-0.10	0.1080	6.3	-0.2	-1.0	1.4
0803	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.34	-0.10	-0.05	-0.001	-0.10	0.0680	-1.2	-0.2	2.2	-1.0
0803	1/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.08	-0.10	-0.05	-0.001	-0.10	0.0710	-1.8	-0.2	-1.0	-1.0
0803	4/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.10	-0.10	-0.05	-0.001	-0.10	0.0740	-1.2	-0.2	1.1	-1.0
0803	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.16	-0.10	-0.05	0.001	-0.10	0.0860	-1.2	-0.2	-1.0	1.3
0803	10/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.07	-0.10	-0.05	0.002	-0.10	0.0790	-1.2	-0.2	-1.0	-1.0
0803	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.17	-0.10	-0.05	0.002	-0.10	0.0830	1.2	0.3	1.5	1.0
0803	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.14	-0.10	-0.05	-0.001	-0.10	0.0820	-1.2	-0.2	-1.0	-1.0
0803	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.52	-0.10	-0.05	-0.001	-0.10	0.0680	-1.4	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
EPA 22A*	10/8/89	6913.7	6.9	7.56	1,310	269	55	88.2	4.3	521	605	11.4	0.06	0.26	-0.00100	-0.001	-0.005
EPA 22A*	1/17/90	6912.9	6.8	6.96	1,478	311	57	86.7	3.4	556	677	11.7	0.07	0.25	-0.00100	-0.001	-0.005
EPA 22A*	4/19/90	6911.9	6.9	7.31	1,448	310	63	82.9	3.2	576	845	11.5	0.06	0.21	-0.00100	-0.001	-0.005
EPA 22A*	7/17/90	6910.8	6.9	7.28	1,505	317	60	80.4	3.6	583	681	11.6	-0.05	0.12	-0.00100	-0.001	-0.005
EPA 22A*	10/16/90	6910.0	6.8	7.79	1,536	301	60	81.2	3.4	547	704	10.9	-0.05	0.20	-0.00100	-0.001	-0.005
EPA 22A*	1/10/91	6909.5	6.9	7.98	1,551	324	69	84.7	7.1	533	754	16.7	-0.05	0.21	-0.00100	-0.001	-0.005
EPA 22A*	4/16/91	6908.8	6.8	7.66	1,494	299	61	80.0	3.7	521	720	10.2	-0.05	0.21	-0.00100	-0.001	-0.005
EPA 22A*	7/9/91	6908.3	6.8	7.42	1,532	291	54	75.0	3.1	540	663	11.5	0.17	0.09	-0.00100	-0.001	-0.005
EPA 22A*	10/22/91	6907.7	6.8	7.24	1,430	282	55	84.1	3.0	549	685	16.2	0.16	-0.01	-0.00100	-0.001	-0.005
EPA 22A*	1/23/92	6906.9	6.8	7.76	1,416	308	52	82.2	3.3	540	676	11.4	-0.05	-0.01	-0.00100	-0.001	-0.005
EPA 22A*	4/2/92	6906.3	6.8	7.70	1,453	294	61	95.8	3.4	556	727	11.0	-0.05	-0.10	-0.00100	-0.001	-0.005
EPA 22A*	7/16/92	6905.2	6.9	7.43	1,456	268	59	74.3	3.6	538	714	12.2	-0.05	0.70	-0.00100	-0.001	-0.005
EPA 22A*	10/15/92	6904.5	6.9	7.51	1,603	306	60	83.9	2.9	548	744	11.4	-0.05	-0.10	-0.00100	-0.001	-0.005
EPA 22A*	1/13/93	6903.9	7.0	7.47	1,497	314	60	81.0	3.3	545	746	15.9	-0.05	-0.10	-0.00100	-0.001	-0.005
EPA 22A*	4/15/93	6903.2	7.0	7.52	1,631	341	54	88.4	1.9	548	777	12.5	-0.05	0.60	-0.00100	-0.001	-0.005
EPA 22A*	7/21/93	6902.3	7.0	7.83	1,635	333	62	98.0	4.3	558	859	11.8	-0.05	0.33	-0.00100	-0.001	-0.005
EPA 22A*	10/12/93	6899.7	7.0	7.40	1,699	352	63	92.5	2.1	551	847	11.2	-0.05	0.33	-0.00100	-0.001	-0.005
EPA 22A*	1/11/94	6900.9	7.0	7.92	1,748	343	69	72.9	1.7	492	938	11.4	0.12	0.91	-0.00100		
EPA 22A*	4/19/94	6900.4	6.7	7.77	1,595	315	62	82.8	2.8	483	815	11.8	-0.05	0.68	-0.00100		
EPA 22A*	7/27/94	6899.8	6.8	7.68	1,548	392	59	85.1	2.0	510	877	9.8	-0.05	0.46	-0.00100		
EPA 22A*	10/11/94	6899.1	6.9	7.71	1,611	341	59	95.3	2.5	538	829	11.0	-0.05	0.99	-0.00100		
EPA 22A*	1/11/95	6898.5	6.9	8.00	1,726	352	63	87.0	3.0	534	828	12.3	0.12	0.92	-0.00100		
EPA 22A*	4/11/95	6898.1	6.9	7.62	1,585	325	66	88.0	2.5	547	751	10.5	0.06	1.09	-0.00100		
EPA 22A*	7/11/95	6897.5	7.0	7.84	1,820	394	85	87.0	2.6	503	974	14.3	1.97	1.92	-0.00100		
EPA 22A*	10/10/95	6896.9	7.2	8.22	1,553	313	63	95.0	2.6	549	724	12.0	-0.05	1.12	-0.00100		
EPA 22A*	1/9/96	6896.3	7.3	7.49	1,724	329	68	94.0	2.7	549	824	11.5	-0.05	1.73	-0.00100		
EPA 22A*	4/10/96	6895.7	7.2	7.93	1,782	350	74.5	83.5	2.5	550	881	12.4	0.06	1.85	-0.00100		
EPA 22A*	7/17/96	6895.3	7.0	7.52	1,815	326	72.4	93.6	2.7	548	816	12.1	0.05	1.29	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 22A*	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	-0.001	-0.10	0.0290	-1.9	5.9	4.1	7.8
EPA 22A*	1/17/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.001	-0.10	0.0280	2.1	3.1	-1.0	3.5
EPA 22A*	4/19/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.001	-0.10	0.0270	-1.5	-0.2	-1.0	-1.0
EPA 22A*	7/17/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0359	-1.2	-0.2	-1.0	-1.0
EPA 22A*	10/16/90	-0.10	-0.001	-0.05	-0.01	0.03	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0254	-1.2	-0.2	-1.0	-1.0
EPA 22A*	1/10/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0241	-1.7	-0.2	1.7	1.1
EPA 22A*	4/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0210	-1.9	-0.2	-1.0	-1.0
EPA 22A*	7/9/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0338	-1.6	-0.2	-1.0	-1.0
EPA 22A*	10/22/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0130	-1.3	-0.2	-1.0	-1.0
EPA 22A*	1/23/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	0.001	-0.10	0.0360	4.3	-0.2	-1.0	2.0
EPA 22A*	4/2/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0100	1.8	-0.2	-1.0	-1.0
EPA 22A*	7/16/92	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	0.001	-0.10	0.0280	1.9	-0.2	-1.0	-1.0
EPA 22A*	10/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0090	3.7	-0.2	2.2	-1.0
EPA 22A*	1/13/93	-0.10	-0.001	-0.10	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0410	-2.8	-0.2	-1.0	-1.0
EPA 22A*	4/15/93	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0390	-2.0	-0.2	-1.0	1.5
EPA 22A*	7/21/93	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0390	-1.6	-0.2	1.6	-1.0
EPA 22A*	10/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0450	-1.6	-0.2	2.0	-1.0
EPA 22A*	1/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	-0.001	-0.10	0.0450	-1.2	-0.2	-1.0	-1.0
EPA 22A*	4/19/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0340	1.9	-0.2	1.1	2.8
EPA 22A*	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0350	10.5	-0.2	-1.0	13.7
EPA 22A*	10/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0360	-1.8	-0.2	5.4	-1.0
EPA 22A*	1/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	-0.001	-0.10	0.0510	3.1	-0.2	-1.0	4.4
EPA 22A*	4/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0310	1.9	-0.2	-1.0	2.7
EPA 22A*	7/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	-0.001	-0.10	0.0420	-1.4	-0.2	-1.0	1.5
EPA 22A*	10/10/95	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0360	5.1	-0.2	-1.0	2.3
EPA 22A*	1/9/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	-0.001	-0.10	0.0380	-1.4	0.8	-1.0	-1.0
EPA 22A*	4/10/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	-0.001	-0.10	0.0480	2.5	-0.2	-1.0	1.4
EPA 22A*	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	-0.001	-0.10	0.0480	-1.7	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
EPA 23*	10/8/89	6896.7	6.3	7.10	4,930	682	397	173	14.1	1,086	2,339	91.0	0.53	91.0	-0.00100	-0.001	-0.005
EPA 23*	1/17/90	6896.3	6.4	6.66	4,882	669	391	174	10.9	1,074	2,278	90.9	0.53	89.0	-0.00100	-0.001	-0.005
EPA 23*	4/18/90	6895.6	6.5	6.88	4,988	610	363	165	9.9	1,104	2,241	89.9	0.64	80.0	-0.00100	-0.001	-0.005
EPA 23*	7/13/90	6894.7	6.6	6.86	4,780	678	413	173	11.2	1,106	2,243	89.7	0.31	82.9	-0.00100	-0.001	-0.005
EPA 23*	10/11/90	6894.5	6.5	7.03	4,580	657	403	173	10.8	1,076	2,374	99.0	0.50	80.1	-0.00100	-0.001	-0.005
EPA 23*	1/9/91	6893.9	6.5	7.10	4,876	688	418	177	27.0	1,070	2,406	97.5	0.51	95.0	-0.00100	-0.001	-0.005
EPA 23*	4/16/91	6893.6	6.4	7.90	4,876	604	387	165	11.1	1,059	2,408	90.0	0.43	115	-0.00100	-0.001	-0.005
EPA 23*	7/9/91	6892.9	6.3	6.81	5,029	616	393	163	9.0	1,122	2,347	93.7	0.56	81.8	-0.00100	-0.001	-0.005
EPA 23*	10/23/91	6892.4	6.3	7.17	4,870	626	393	173	10.2	1,059	2,257	101	0.80	87.5	-0.00100	-0.001	-0.005
EPA 23*	1/16/92	6891.7	6.4	7.42	4,916	619	382	168	9.8	979	2,376	100	1.00	94.3	-0.00100	-0.001	-0.005
EPA 23*	4/2/92	6891.5	6.3	7.27	4,901	669	360	211	12.0	1,096	2,408	89.3	0.73	94.3	-0.00100	-0.001	-0.005
EPA 23*	7/16/92	6890.2	6.5	7.08	5,173	682	349	201	11.4	1,093	2,390	93.4	0.40	74.4	-0.00100	-0.001	-0.005
EPA 23*	10/15/92	6889.3	6.6	7.11	4,886	655	339	170	11.5	1,091	2,373	88.2	0.70	48.4	-0.00100	-0.001	-0.005
EPA 23*	1/14/93	6889.2	6.6	7.30	4,647	622	358	155	11.1	1,054	2,404	78.6	1.20	39.5	-0.00100	-0.001	-0.005
EPA 23*	4/15/93	6888.9	6.7	7.08	4,777	669	349	176	8.8	1,094	2,361	93.1	0.75	56.6	-0.00100	-0.001	-0.005
EPA 23*	7/21/93	6887.5	6.7	7.48	4,450	671	347	180	11.0	1,137	2,207	87.8	0.93	53.0	-0.00100	-0.001	-0.005
EPA 23*	10/11/93	6885.7	6.7	7.06	4,749	753	372	155	9.0	1,059	2,225	79.6	0.91	52.4	-0.00100	-0.001	-0.005
EPA 23*	1/10/94	6886.7	6.6	7.42	4,712	681	346	179	8.4	1,007	2,547	85.2	0.90	41.5	-0.00100		
EPA 23*	4/19/94	6886.6	6.4	7.63	4,823	632	342	160	10.1	997	2,460	84.9	1.07	49.5	-0.00100		
EPA 23*	7/27/94	6886.0	6.5	7.40	4,720	748	344	144	9.7	1,061	2,369	88.4	0.80	52.1	-0.00100		
EPA 23*	10/10/94	6885.4	6.7	7.45	4,891	701	404	174	10.0	1,175	2,599	92.2	1.20	54.4	-0.00100		
EPA 23*	1/11/95	6885.3	6.6	7.21	4,852	690	352	156	10.4	1,142	2,333	96.7	1.41	56.3	-0.00100		
EPA 23*	4/11/95	6885.0	6.5	7.21	4,914	710	388	162	9.7	1,152	2,414	108	1.64	53.4	-0.00100		
EPA 23*	7/10/95	6884.1	6.6	7.50	4,865	695	401	176	10.3	1,227	2,303	113	2.28	61.4	-0.00100		
EPA 23*	10/9/95	6883.8	6.5	7.66	4,379	675	380	155	9.4	1,122	2,194	83.3	1.31	32.7	-0.00100		
EPA 23*	1/8/96	6883.3	6.4	7.35	4,421	690	390	162	10.1	1,114	2,267	86.0	1.39	42.5	-0.00100		
EPA 23*	4/9/96	6883.1	6.7	7.67	4,880	725	411	150	9.7	1,172	2,440	95.3	1.51	45.0	-0.00100		
EPA 23*	7/17/96	6882.5	6.5	7.07	4,518	620	350	135	10.0	1,048	2,368	68.0	1.09	8.94	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 23*	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.90	-0.10	-0.05	0.001	-0.10	0.0400	-1.2	9.8	-1.0	10.2
EPA 23*	1/17/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.90	-0.10	-0.05	-0.001	-0.10	0.0350	2.2	1.3	1.5	1.5
EPA 23*	4/18/90	-0.10	0.002	-0.05	-0.01	-0.01	-0.05	1.60	-0.10	-0.05	-0.016	-0.10	0.0310	-1.4	-0.2	-1.0	-1.0
EPA 23*	7/13/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	2.11	-0.10	-0.05	-0.001	-0.10	0.0388	-1.2	-0.2	-1.0	-1.0
EPA 23*	10/11/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	2.07	-0.10	-0.05	-0.001	-0.10	0.0378	-1.9	-0.2	-1.0	-1.0
EPA 23*	1/9/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.01	-0.10	-0.05	0.001	-0.10	0.0491	-1.2	-0.2	-1.0	-1.0
EPA 23*	4/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.08	-0.10	-0.05	-0.001	-0.10	0.0230	-1.2	-0.2	-1.0	-1.0
EPA 23*	7/9/91	0.17	-0.001	-0.01	-0.01	-0.01	-0.05	1.95	-0.10	-0.05	-0.001	-0.10	0.0436	-1.4	-0.2	-1.0	-1.0
EPA 23*	10/23/91	0.14	-0.001	-0.01	-0.01	-0.01		2.18	-0.10	-0.05	-0.001	-0.10	0.0510	-1.2	-0.2	-1.0	-1.0
EPA 23*	1/16/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.28	-0.10	-0.05	-0.001	-0.10	0.0320	-1.3	-0.2	-1.0	-1.0
EPA 23*	4/2/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.27	-0.10	-0.05	0.013	-0.10	0.0310	-3.8	-0.2	-1.0	-1.0
EPA 23*	7/16/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.23	-0.10	-0.05	0.001	-0.10	0.0320	4.3	-0.2	-1.0	1.3
EPA 23*	10/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.69	-0.10	-0.05	-0.001	-0.10	0.0380	3.0	-0.2	1.1	1.8
EPA 23*	1/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.68	-0.10	-0.05	-0.001	-0.10	0.0350	-2.0	-0.2	-1.0	-1.0
EPA 23*	4/15/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.61	-0.10	-0.05	-0.001	-0.10	0.0280	-1.3	-0.2	-1.0	-1.0
EPA 23*	7/21/93	-0.10	-0.001	-0.01	0.02	0.02	-0.05	2.89	-0.10	-0.05	-0.001	-0.10	0.0360	-1.2	-0.2	-1.0	-1.0
EPA 23*	10/11/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.74	-0.10	-0.05	0.001	-0.10	0.0280	-1.6	-0.2	-1.0	-1.0
EPA 23*	1/10/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.95	-0.10	-0.05	-0.001	-0.10	0.0350	-3.9	-0.2	-1.0	6.7
EPA 23*	4/19/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.63	-0.10	-0.05	-0.001	-0.10	0.0390	-1.2	-0.2	-1.0	-1.0
EPA 23*	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.75	-0.10	-0.05	0.001	-0.10	0.0320	4.0	-0.2	-1.0	5.4
EPA 23*	10/10/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.82	-0.10	-0.05	-0.001	-0.10	0.0360	-0.7	-0.2	1.9	-1.0
EPA 23*	1/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.75	-0.10	-0.05	-0.001	-0.10	0.0460	3.1	-0.2	1.9	4.5
EPA 23*	4/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	3.00	-0.10	-0.05	-0.001	-0.10	0.0340	-1.2	-0.2	-1.0	-1.0
EPA 23*	7/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	3.03	-0.10	-0.05	0.002	-0.10	0.0380	-1.3	-0.2	-1.0	3.3
EPA 23*	10/9/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	3.52	-0.10	-0.05	0.004	-0.10	0.0330	3.6	-0.2	-1.0	-1.0
EPA 23*	1/8/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	3.40	-0.10	-0.05	0.003	-0.10	0.0370	-1.2	-0.2	1.9	-1.0
EPA 23*	4/9/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	3.29	-0.10	-0.05	-0.001	-0.10	0.0400	-1.2	-0.2	-1.0	-1.0
EPA 23*	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	4.20	-0.10	-0.05	-0.001	-0.10	0.0250	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
EPA 25	10/8/89	6861.1	6.7	7.54	3,200	650	150	107	10.0	619	1,745	31.7	0.05	36.0	-0.00100	-0.001	-0.005
EPA 25	1/17/90	6861.5	6.6	6.70	3,252	625	147	106	7.8	615	1,656	31.7	0.05	30.0	-0.00100	-0.001	-0.005
EPA 25	4/18/90	6861.2	6.7	6.88	3,299	640	148	103	7.3	647	1,619	34.1	0.05	35.0	-0.00100	-0.001	-0.005
EPA 25	7/13/90	6860.6	6.7	7.18	3,343	642	164	101	8.6	677	1,628	34.1	-0.05	34.4	-0.00100	-0.001	-0.005
EPA 25	10/10/90	6860.7	6.8	7.32	3,422	711	155	105	8.1	653	1,724	38.0	-0.05	35.9	-0.00100	-0.001	-0.005
EPA 25	1/9/91	6861.0	6.8	7.20	3,248	655	152	111	12.0	667	1,624	39.4	-0.05	43.5	-0.00100	-0.001	-0.005
EPA 25	4/16/91	6860.8	6.6	7.90	3,300	633	150	107	7.6	650	1,640	40.2	-0.05	54.5	-0.00100	-0.001	-0.005
EPA 25	7/9/91	6860.9	6.4	7.14	3,461	607	153	95	6.7	677	1,718	39.2	0.15	55.0	-0.00100	-0.001	-0.005
EPA 25	10/24/91	6859.6	6.5	7.47	3,399	639	432	105	7.3	722	1,672	62.5	0.31	38.0	-0.00100	-0.001	-0.005
EPA 25	1/24/92	6859.3	6.5	7.51	3,123	619	153	102	7.0	691	1,669	45.7	0.14	23.5	-0.00100	-0.001	-0.005
EPA 25	4/3/92	6859.2	6.4	7.51	3,414	564	138	129	8.9	752	1,781	45.4	0.22	43.9	-0.00100	-0.001	-0.005
EPA 25	7/16/92	6858.5	6.5	7.48	3,076	623	161	156	10.1	740	1,804	49.3	0.18	44.9	-0.00100	-0.001	-0.005
EPA 25	10/15/92	6858.1	6.7	7.03	3,529	673	147	120	8.8	769	1,725	51.6	-0.05	38.9	-0.00100	-0.001	-0.005
EPA 25	1/12/93	6857.8	6.7	7.36	3,591	725	162	112	9.5	766	1,631	52.6	-0.05	50.7	-0.00100	-0.001	-0.005
EPA 25	4/15/93	6857.7	6.7	7.65	3,674	793	151	123	6.4	1,049	1,818	59.4	0.06	41.1	-0.00100	-0.001	-0.005
EPA 25	7/20/93	6857.0	6.7	7.52	3,503	696	151	127	7.1	817	1,709	62.7	0.07	38.7	-0.00100	-0.001	-0.005
EPA 25	10/11/93	6855.1	6.8	7.26	3,584	707	152	95	6.5	805	1,699	59.3	0.05	40.8	-0.00100	-0.001	-0.005
EPA 25	1/10/94	6856.6	6.8	7.59	3,639	662	163	99	6.3	790	1,771	67.8	0.12	38.6	-0.00100		
EPA 25	4/20/94	6856.3	6.8	7.07	3,486	647	151	112	6.5	791	1,672	67.0	0.18	47.1	-0.00100		
EPA 25	7/26/94	6855.8	6.7	7.60	3,663	783	181	115	7.4	822	1,681	70.4	-0.05	54.7	-0.00100		
EPA 25	10/10/94	6855.7	6.7	7.60	3,704	764	187	129	7.8	907	1,909	73.9	0.13	47.1	-0.00100		
EPA 25	1/10/95	6855.4	6.8	7.50	3,734	840	137	120	8.4	889	1,779	78.7	0.13	47.1	-0.00100		
EPA 25	4/11/95	6855.2	6.1	7.35	3,686	806	200	136	13.7	915	1,849	91.0	0.34	50.1	-0.00100		
EPA 25	7/10/95	6855.2	6.9	7.53	3,576	715	198	133	7.6	697	1,716	88.0	0.26	58.9	-0.00100		
EPA 25	10/9/95	6854.7	6.9	7.80	3,789	745	202	148	7.2	791	1,696	80.0	0.14	62.9	-0.00100		
EPA 25	1/8/96	6854.3	6.8	7.36	3,963	745	212	139	6.9	841	1,826	71.0	-0.05	86.4	-0.00100		
EPA 25	4/9/96	6854.0	6.9	7.76	3,942	790	206	135	7.2	937	1,766	87.4	0.11	62.6	-0.00100		
EPA 25	7/17/96	6853.7	6.7	7.10	3,928	710	182	145	7.9	964	1,816	95.0	0.07	67.2	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 25	10/8/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	0.001	-0.10	0.0220	-2.0	-0.2	1.2	1.1
EPA 25	1/17/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.0190	2.2	0.7	-1.0	1.0
EPA 25	4/18/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.30	-0.10	-0.05	0.001	-0.10	0.0190	-1.5	-0.2	-1.0	1.4
EPA 25	7/13/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.18	-0.10	-0.05	-0.001	-0.10	0.0194	-1.2	-0.2	-1.0	-1.0
EPA 25	10/10/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.20	-0.10	-0.05	-0.001	-0.10	0.0206	-1.2	-0.2	-1.0	-1.0
EPA 25	1/9/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.23	-0.10	-0.05	-0.001	-0.10	0.0277	-1.2	-0.2	-1.0	-1.0
EPA 25	4/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	-0.001	-0.10	0.0170	-1.2	-0.2	1.5	-1.0
EPA 25	7/9/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	-0.001	-0.10	0.0231	-1.2	-0.2	1.7	-1.0
EPA 25	10/24/91	-0.10	-0.001	-0.01	-0.01	0.01		0.24	-0.10	-0.05	-0.001	-0.10	0.0490	-3.7	-0.2	-1.0	-1.0
EPA 25	1/24/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.10	-0.05	0.001	-0.10	0.0270	-1.7	-0.2	-1.0	-1.0
EPA 25	4/3/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	-0.001	-0.10	0.0390	-5.2	-0.2	-1.0	-1.0
EPA 25	7/16/92	-0.10	0.007	-0.01	-0.01	0.02	-0.05	0.35	-0.10	-0.05	0.003	-0.10	0.0410	-1.2	-0.2	7.0	-1.0
EPA 25	10/15/92	-0.05	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.10	-0.05	-0.001	-0.10	0.0220	2.8	-0.2	5.7	1.9
EPA 25	1/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	0.010	-0.10	0.0180	-1.2	-0.2	-1.0	-1.0
EPA 25	4/15/93	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.23	-0.10	-0.05	-0.001	-0.10	0.0250	-1.2	-0.2	1.9	-1.0
EPA 25	7/20/93	-0.10	-0.001	-0.01	-0.01	0.03	-0.05	0.24	-0.10	-0.05	-0.001	-0.10	0.0250	-1.2	-0.2	-1.0	-1.0
EPA 25	10/11/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.0230	-1.2	-0.2	3.5	-1.0
EPA 25	1/10/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.10	-0.05	-0.001	-0.10	0.0620	-3.0	-0.2	5.2	5.2
EPA 25	4/20/94	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.0400	0.7	-0.2	-1.0	1.9
EPA 25	7/26/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.26	-0.10	-0.05	-0.001	-0.10	0.0520	-1.2	-0.2	-1.0	-1.0
EPA 25	10/10/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	-0.001	-0.10	0.0460	-0.7	-0.2	-1.0	-1.0
EPA 25	1/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.10	-0.05	-0.001	-0.10	0.0510	-1.2	-0.2	4.3	-1.0
EPA 25	4/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.10	-0.05	-0.001	-0.10	0.0520	-3.1	-0.2	-1.0	2.0
EPA 25	7/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.37	-0.10	-0.05	0.001	-0.10	0.0590	-2.5	-0.2	-1.0	6.6
EPA 25	10/9/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.51	-0.10	-0.05	0.001	-0.10	0.0690	-4.5	1.4	-1.0	3.2
EPA 25	1/8/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.25	-0.10	-0.05	-0.001	-0.10	0.0090	-1.2	-0.2	-1.0	-1.0
EPA 25	4/9/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.10	-0.05	-0.001	-0.10	0.0660	-1.4	-0.2	-1.0	-1.0
EPA 25	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.39	-0.10	-0.05	-0.001	-0.10	0.1890	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
EPA 27	10/4/89	6864.8	8.1	7.80	4,734	550	242	329	22.4	196	2,266	74.5	0.09	150	-0.00100	-0.001	-0.005
EPA 27	1/23/90	6865.0	8.0	7.40	4,680	538	268	340	17.0	223	2,217	78.8	0.11	180	-0.00100	-0.001	-0.005
EPA 27	4/18/90	6864.7	7.9	7.55	4,775	530	260	340	13.4	283	2,160	79.6	0.08	182	-0.00100	-0.001	-0.005
EPA 27	7/13/90	6864.1	8.9	7.74	4,731	562	239	348	20.4	167	2,073	79.7	-0.05	202	-0.00100	-0.001	-0.005
EPA 27	10/16/90	6864.2	8.2	7.78	4,786	558	238	372	16.8	183	2,324	89.4	0.05	196	-0.00100	-0.001	-0.005
EPA 27	1/10/91	6864.3	7.7	7.60	4,274	574	288	381	17.1	143	2,074	83.8	0.13	171	-0.00100	-0.001	-0.005
EPA 27	4/16/91	6864.3	7.6	8.12	4,727	547	228	350	16.3	179	2,296	85.3	-0.05	256	-0.00100	-0.001	-0.005
EPA 27	7/9/91	6863.8	7.5	7.68	4,925	528	253	326	14.9	121	2,420	81.3	-0.05	200	-0.00100	-0.001	-0.005
EPA 27	10/23/91	6863.3	7.7	7.70	4,461	452	146	359	19.4	122	2,229	98.0	0.31	141	-0.00100	-0.001	-0.005
EPA 27	1/23/92	6863.0	7.8	7.47	4,570	519	196	335	13.0	129	2,103	92.1	-0.05	125	-0.00100	-0.001	-0.005
EPA 27	4/3/92	6862.9	7.3	7.87	4,087	581	248	416	18.7	208	2,443	82.5	-0.05	194	-0.00100	-0.001	-0.005
EPA 27	7/16/92	6862.1	8.2	7.76	4,239	454	225	441	17.0	73.4	2,224	99.0	-0.05	150	-0.00100	-0.001	-0.005
EPA 27	10/15/92	6861.6	7.9	7.76	4,534	566	213	374	17.3	75.4	2,302	99.1	-0.05	147	-0.00100	-0.001	-0.005
EPA 27	1/12/93	6861.0	7.9	7.85	4,496	571	217	395	16.1	116	2,386	98.9	-0.05	195	-0.00100	-0.001	-0.005
EPA 27	4/15/93	6861.0	7.9	7.86	4,612	472	237	389	10.2	96.3	2,260	111	0.07	150	-0.00100	-0.001	-0.005
EPA 27	7/21/93	6860.4	8.5	7.87	4,408	519	198	387	15.5	81.6	2,195	104	-0.05	141	-0.00100	-0.001	-0.005
EPA 27	10/12/93	6858.7	8.1	6.79	3,844	551	183	314	14.1	74.7	2,175	101	0.05	92.5	-0.00100	-0.001	-0.005
EPA 27	1/11/94	6859.7	8.1	7.75	4,266	501	183	320	13.0	103	2,181	97.8	-0.05	122	-0.00100		
EPA 27	4/19/94	6859.3	6.5	8.12	4,020	509	172	373	15.3	80.6	2,073	107	0.20	143	-0.00100		
EPA 27	7/27/94	6859.0	8.0	7.77	3,954	568	143	307	16.7	58.6	2,060	108	-0.05	148	-0.00100		
EPA 27	10/11/94	6858.6	8.0	7.83	4,264	565	223	377	12.1	67.8	2,245	108	0.09	141	-0.00100		
EPA 27	1/11/95	6858.2	8.3	7.54	4,030	552	151	337	16.3	74.8	2,066	113	0.16	190	-0.00100		
EPA 27	4/11/95	6858.1	7.5	8.02	4,125	541	169	354	15.6	63.1	2,054	118	0.21	149	-0.00100		
EPA 27	7/11/95	6857.8	7.9	7.90	3,897	550	134	332	15.6	64.6	1,872	118	0.05	129	-0.00100		
EPA 27	10/10/95	6857.4	7.9	8.18	3,760	535	128	360	18.2	54.2	1,796	108	-0.05	121	-0.00100		
EPA 27	1/9/96	6857.1	7.9	7.90	3,743	530	126	328	16.1	62.2	1,929	116	-0.05	132	-0.00100		
EPA 27	4/10/96	6856.8	8.4	7.97	3,875	552	133	324	14.1	57.6	2,080	126	0.07	123	-0.00100		
EPA 27	7/17/96	6856.5	7.8	7.82	3,730	560	118	348	16.4	45.5	2,009	124	-0.05	143	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 27	10/4/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	0.03	-0.05	0.006	-0.10	0.0320	2.4	-0.2	-1.0	1.1
EPA 27	1/23/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.005	-0.10	0.0460	-1.7	1.4	-1.0	1.7
EPA 27	4/18/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.005	-0.10	0.0270	-1.2	-0.2	-1.0	-1.0
EPA 27	7/13/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0213	-1.2	0.8	1.0	-1.0
EPA 27	10/16/90	-0.10	-0.001	-0.05	-0.01	0.04	-0.05	-0.01	-0.10	-0.05	0.003	-0.10	0.0282	-1.2	-0.2	-1.0	-1.0
EPA 27	1/10/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.01	-0.10	-0.05	0.006	-0.10	0.0286	-1.8	-0.2	-1.0	1.2
EPA 27	4/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.004	-0.10	0.0240	-1.2	-0.2	1.3	-1.0
EPA 27	7/9/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.005	-0.10	0.0347	-1.4	-0.2	-1.0	-1.0
EPA 27	10/23/91	-0.10	-0.001	-0.01	-0.01	0.01		0.01	-0.10	-0.05	0.006	-0.10	0.0320	-1.2	-0.2	-1.0	-1.0
EPA 27	1/23/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0390	1.5	-0.2	1.6	-1.0
EPA 27	4/3/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.096	-0.10	0.0140	-1.2	-0.2	2.4	-1.0
EPA 27	7/16/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.006	-0.10	0.0240	3.1	-0.2	-1.0	-1.0
EPA 27	10/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.007	-0.10	0.0290	6.0	-0.2	2.2	-1.0
EPA 27	1/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.031	-0.10	0.0110	-1.2	-0.2	-1.0	-1.0
EPA 27	4/15/93	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.011	-0.10	0.0230	-1.2	-0.2	1.9	-1.0
EPA 27	7/21/93	-0.10	0.001	-0.01	-0.01	0.01	-0.05	0.02	-0.10	-0.05	0.015	-0.10	0.0180	-1.2	-0.2	-1.0	-1.0
EPA 27	10/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.011	-0.10	0.0190	-1.5	-0.2	1.9	-1.0
EPA 27	1/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.010	-0.10	0.0230	-1.9	-0.2	-1.0	3.5
EPA 27	4/19/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.009	-0.10	0.0190	-1.2	-0.2	-1.0	-1.0
EPA 27	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.007	-0.10	0.0140	4.7	-0.2	1.9	6.8
EPA 27	10/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.008	-0.10	0.0210	-1.3	-0.2	1.0	-1.0
EPA 27	1/11/95	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.011	-0.10	0.0170	-2.8	-0.2	3.0	4.3
EPA 27	4/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.011	-0.10	0.0140	-1.2	-0.2	-1.0	-1.0
EPA 27	7/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.012	-0.10	0.0110	-1.2	-0.2	-1.0	-1.0
EPA 27	10/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.035	-0.10	0.0094	1.7	-0.2	-1.0	-1.0
EPA 27	1/9/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.038	-0.10	0.0110	-1.2	-0.2	-1.0	-1.0
EPA 27	4/10/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.009	-0.10	0.0130	-1.2	-0.2	-1.0	-1.0
EPA 27	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0100	-3.1	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
EPA 28*	10/4/89	6867.7	6.5	7.20	4,989	565	475	216	14.1	738	2,720	107	-0.05	113	-0.00100	-0.001	-0.005
EPA 28*	1/23/90	6867.7	6.6	6.80	4,904	525	468	227	10.4	756	2,434	116	0.09	75.0	-0.00100	-0.001	-0.005
EPA 28*	4/18/90	6867.3	6.8	7.12	4,977	542	428	207	9.9	815	2,330	117	0.12	69.0	-0.00100	-0.001	-0.005
EPA 28*	7/13/90	6866.2	6.7	7.21	5,037	541	440	212	10.0	821	2,210	126	-0.05	74.2	-0.00100	-0.001	-0.005
EPA 28*	10/16/90	6866.7	6.5	7.21	5,306	548	231	387	17.7	522	3,005	111	-0.05	62.5	-0.00100	-0.001	-0.005
EPA 28*	1/10/91	6866.7	6.6	7.17	5,138	542	487	232	13.8	627	2,732	115	-0.05	68.0	-0.00100	-0.001	-0.005
EPA 28*	4/16/91	6866.7	6.5	7.76	5,194	497	470	222	11.8	632	2,824	123	-0.05	88.0	-0.00100	-0.001	-0.005
EPA 28*	7/9/91	6866.2	6.4	7.07	5,350	477	463	208	10.1	551	2,940	107	-0.05	68.0	-0.00100	-0.001	-0.005
EPA 28*	10/23/91	6865.4	6.4	7.50	5,170	488	499	225	11.4	534	2,792	114	0.28	52.3	-0.00100	-0.001	-0.005
EPA 28*	1/23/92	6865.1	6.4	7.37	5,268	490	448	213	10.2	583	2,786	111	0.14	40.6	-0.00100	-0.001	-0.005
EPA 28*	4/3/92	6865.3	6.5	7.46	4,613	505	448	263	12.6	612	2,934	110	0.22	72.1	-0.00100	-0.001	-0.005
EPA 28*	7/16/92	6864.4	6.6	7.20	5,042	517	489	246	13.6	561	2,916	110	0.10	35.4	-0.00100	-0.001	-0.005
EPA 28*	10/15/92	6863.2	6.7	7.21	5,249	509	486	236	10.9	550	3,015	106	-0.05	55.5	-0.00100	-0.001	-0.005
EPA 28*	1/12/93	6862.6	6.6	7.16	5,095	546	482	244	13.9	584	2,973	110	-0.05	77.9	-0.00100	-0.001	-0.005
EPA 28*	4/15/93	6863.0	6.7	7.49	5,230	534	483	251	10.0	744	2,981	122	0.08	63.0	-0.00100	-0.001	-0.005
EPA 28*	7/21/93	6862.2	6.7	7.49	4,999	546	474	249	12.5	561	2,968	98.9	-0.05	49.5	-0.00100	-0.001	-0.005
EPA 28*	10/12/93	6859.6	7.0	7.18	5,002	525	450	223	10.6	603	2,913	109	-0.05	48.6	-0.00100	-0.001	-0 005
EPA 28*	1/11/94	6861.1	7.0	7.73	5,378	544	473	236	10.6	562	3,132	101	-0.05	52.8	-0.00100		
EPA 28*	4/19/94	6860.9	6.7	7.71	5,077	481	452	232	12.6	527	2,901	108	0.06	56.2	-0.00100		
EPA 28*	7/27/94	6860.5	6.7	7.45	5,476	611	527	197	12.7	559	3,177	102	-0.05	59.2	-0.00100		
EPA 28*	10/11/94	6860.0	6.7	7.69	5,491	545	574	241	13.0	614	3,325	97.5	0.06	38.6	-0.00100		
EPA 28*	1/11/95	6859.7	6.7	7.65	5,614	510	576	202	12.9	586	3,257	96.7	0.13	48.2	-0.00100		
EPA 28*	4/11/95	6859.7	6.7	7.39	5,089	532	496	217	11.8	601	3,028	124	0.15	28.6	-0.00100		
EPA 28*	7/11/95	6859.3	6.9	7.85	4,851	535	505	219	11.5	554	2,850	115	-0.05	51.7	-0.00100		
EPA 28*	10/10/95	6858.8	6.9	7.94	4,825	520	495	229	12.0	549	2,802	101	-0.05	47.2	-0.00100		
EPA 28*	1/9/96	6858.4	7.0	7.29	5,029	535	520	207	11.6	528	2,979	112	-0.05	55.3	-0.00100		
EPA 28*	4/10/96	6858.0	7.1	7.73	5,273	508	500	209	10.8	556	3,165	124	0.07	48.5	-0.00100		
EPA 28*	7/17/96	6857.8	7.0	7.08	5,267	525	550	227	12.1	531	3,045	112	-0.05	125	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 28*	10/4/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	0.002	-0.10	0.0410	-3.7	4.6	-1.0	8.4
EPA 28*	1/23/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.18	-0.10	-0.05	0.002	-0.10	0.0450	3.4	1.8	1.3	3.2
EPA 28*	4/18/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.17	-0.10	-0.05	0.001	-0.10	0.2600	-1.8	-0.2	-1.0	1.3
EPA 28*	7/13/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.17	-0.10	-0.05	-0.001	-0.10	0.0378	-1.4	-0.2	-1.0	-1.0
EPA 28*	10/16/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.23	-0.10	-0.05	-0.001	-0.10	0.0206	-1.8	-0.2	-1.0	-1.0
EPA 28*	1/10/91	-0.10	-0.001	-0.01	0.01	0.02	-0.05	0.21	-0.10	-0.05	0.002	-0.10	0.0268	-3.4	-0.2	6.3	3.1
EPA 28*	4/16/91	-0.10	-0.001	-0.01	0.01	-0.01	-0.05	0.18	-0.10	-0.05	-0.001	-0.10	0.0270	4.0	-0.2	-1.0	-1.0
EPA 28*	7/9/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.20	-0.10	-0.05	-0.001	-0.10	0.0302	2.5	-0.2	-1.0	2.0
EPA 28*	10/23/91	-0.10	-0.001	-0.01	-0.01	0.01		0.21	-0.10	-0.05	-0.001	-0.10	0.0500	-1.7	-0.2	-1.0	-1.0
EPA 28*	1/23/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.10	-0.05	0.001	-0.10	0.0240	4.3	-0.2	2.7	-1.0
EPA 28*	4/3/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.10	-0.05	0.008	-0.10	0.0190	1.6	-0.2	-1.0	-1.0
EPA 28*	7/16/92	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.23	-0.10	-0.05	0.001	-0.10	0.0230	-2.7	-0.2	-1.0	1.9
EPA 28*	10/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.21	-0.10	-0.05	-0.001	-0.10	0.0290	-1.9	-0.2	2.6	-1.0
EPA 28*	1/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.10	-0.05	0.016	-0.10	0.0260	3.7	-0.2	-1.0	-1.0
EPA 28*	4/15/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.10	-0.05	-0.001	-0.10	0.0280	-1.6	-0.2	-1.0	-1.0
EPA 28*	7/21/93	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.25	-0.10	-0.05	-0.001	-0.10	0.0290	-1.5	-0.2	-1.0	-1.0
EPA 28*	10/12/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.24	-0.10	-0.05	0.001	-0.10	0.0380	-2.0	-0.2	2.8	-1.0
EPA 28*	1/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.10	-0.05	-0.001	-0.10	0.0270	4.6	-0.2	-1.0	7.7
EPA 28*	4/19/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.10	-0.05	-0.001	-0.10	0.0260	-1.7	-0.2	2.0	7.2
EPA 28*	7/27/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	0.002	-0.10	0.0190	-1.1	-0.2	-1.0	-1.0
EPA 28*	10/11/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.26	-0.10	-0.05	-0.001	-0.10	0.0240	-4.7	-0.2	-1.0	3.9
EPA 28*	1/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.30	-0.10	-0.05	-0.001	-0.10	0.0260	4.9	-0.2	2.6	6.9
EPA 28*	4/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.27	-0.10	-0.05	-0.001	-0.10	0.0250	-1.4	-0.2	-1.0	-1.0
EPA 28*	7/11/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.25	-0.10	-0.05	0.002	-0.10	0.0260	-2.3	-0.2	1.6	6.9
EPA 28*	10/10/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.23	-0.10	-0.05	0.002	-0.10	0.0270	2.0	0.5	-1.0	1.5
EPA 28*	1/9/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.10	-0.05	0.005	-0.10	0.0270	-1.6	-0.2	-1.0	-1.0
EPA 28*	4/10/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.27	-0.10	-0.05	-0.001	-0.10	0.0330	-1.2	-0.2	-1.0	-1.0
EPA 28*	7/17/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	-0.001	-0.10	0.0320	-2.8	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
GW 1*	10/16/89	6868.9	7.0	7.02	5,376	856	431	331	3.8	2,030	1,931	236	0.13	110	-0.00100	-0.001	-0.005
GW 1*	1/10/90	6868.3	6.4	6.54	5,658	774	408	349	2.8	1,903	2,079	239	0.25	111	-0.00100	-0.001	-0.005
GW 1*	4/5/90	6868.2	6.3	6.98	5,732	818	430	350	2.8	2,001	2,118	243	0.13	119	-0.00100	-0.001	-0.005
GW 1*	7/3/90	6867.2	6.4	6.92	6,154	953	501	343	4.5	2,098	2,252	241	-0.05	109	-0.00100	-0.001	-0.005
GW 1*	10/3/90	6867.6	6.3	7.26	5,879	780	425	350	4.0	1,785	2,214	238	-0.05	68.3	-0.00100	-0.001	-0.005
GW 1*	1/16/91	6867.6	6.4	7.12	6,092	909	483	380	3.3	1,573	2,373	247	-0.05	97.5	-0.00100	-0.001	-0.005
GW 1*	4/2/91	6867.7	6.3	7.10	5,780	817	459	344	3.5	1,478	2,476	237	0.05	108	-0.00100	-0.001	-0.005
GW 1*	7/17/91	6866.8	6.5	7.21	6,236	821	478	326	4.8	1,893	2,626	236	-0.05	90.9	-0.00100	-0.001	-0.005
GW 1*	10/15/91	6866.1	6.3	6.90	6,275	900	519	349	3.8	2,020	2,460	247	-0.05	57.6	-0.00100	-0.001	-0.005
GW 1*	1/15/92	6865.9	6.3	7.05	5,446	695	457	360	3.9	1,617	2,445	239	-0.05	78.2	-0.00100	-0.001	-0.005
GW 1*	4/8/92	6865.7	6.2	7.43	4,775	769	481	364	4.4	1,813	2,538	217	0.08	75.8	-0.00100	-0.001	-0 005
GW 1*	7/8/92	6864.8	6.0	7.37	4,964	801	403	454	5.6	1,610	2,493	231	0.13	115	-0.00100	-0.001	-0.005
GW 1*	10/6/92	6863.7	6.3	6.90	6,008	800	504	389	3.2	1,809	2,370	220	-0.05	110	-0.00100	-0.001	-0.005
GW 1*	1/7/93	6863.4	6.4	7.73	5,223	676	421	348	5.3	1,807	2,206	234	0.06	117	-0.00100	-0.001	-0.005
GW 1*	4/7/93	6863.9	6.4	7.22	5,681	681	401	372	5.6	1,579	2,269	199	-0.05	119	-0.00100	-0.001	-0.005
GW 1*	7/14/93	6862.7	6.4	7.23	5,630	807	438	337	4.3	1,610	2,370	211	0.05	118	-0.00100	-0.001	-0.005
GW 1*	10/7/93	6862.2	6.7	7.29	5,196	719	433	310	3.0	1,792	1,952	228	-0.05	124	-0.00100	-0.001	-0.005
GW 1*	1/6/94	6861.8	6.8	7.38	5,051	704	394	335	2.9	1,635	2,075	218	0.11	101	-0.00100		
GW 1*	4/12/94	6861.6	6.7	7.15	5,216	685	409	316	3.9	1,485	2,256	175	0.30	115	-0.00100		
GW 1*	7/21/94	6861.1	6.7	6.97	5,415	828	417	283	5.3	1,519	2,371	185	0.13	118	-0.00100		
GW 1*	10/5/94	6860.7	6.5	7.45	5,567	745	446	323	5.1	1,355	2,250	177	0.23	111	-0.00100		
GW 1*	1/4/95	6860.5	6.5	7.39	5,732	788	441	295	4.7	1,364	2,483	166	0.72	104	-0.00100		
GW 1*	4/5/95	6860.3	6.6	7.03	5,397	698	420	282	3.9	1,443	2,400	186	0.36	110	-0.00100		
GW 1*	7/6/95	6859.9	6.5	7.65	5,180	665	428	285	3.9	1,183	2,255	170	0.10	99.4	-0.00100		
GW 1*	10/3/95	6859.3	6.6	7.53	5,292	640	419	270	3.2	1,218	2,265	137	0.29	105	-0.00100		
GW 1*	1/3/96	6858.9	6.6	6.8	5,086	605	405	274	3.5	1,211	2,079	135	0.07	115	-0.00100		
GW 1*	4/2/96	6858.6	6.6	7.55	5,078	594	388	274	3.7	1,160	2,162	140	0.09	116	-0.00100		
GW 1*	7/7/96	6858.4	6.3	7.08	5,119	605	395	290	3.6	1,169	2,155	160	0.21	109	0.00104		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
GW 1*	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.001	-0.10	0.0979	-1.4	4.0	1.5	3.7
GW 1*	1/10/90	-0.10	0.001	-0.05	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.002	-0.10	0.0900	2.1	-0.2	1.3	1.2
GW 1*	4/5/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	0.002	-0.10	0.0870	-1.5	-0.2	1.2	0.8
GW 1*	7/3/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.10	-0.10	-0.05	0.001	-0.10	0.1160	-1.2	-0.2	-1.0	-1.0
GW 1*	10/3/90	-0.10	0.003	-0.05	0.01	0.03	-0.05	0.12	-0.10	-0.05	0.001	-0.10	0.0800	-1.7	-0.2	-1.0	-1.0
GW 1*	1/16/91	0.18	-0.001	-0.01	-0.01	0.02	-0.05	0.12	-0.10	-0.05	0.001	-0.10	0.1110	-1.2	-0.2	-1.0	-1.0
GW 1*	4/2/91	0.19	-0.001	-0.01	0.01	0.02	-0.05	0.13	-0.10	-0.05	0.001	-0.10	0.1300	-1.4	-0.2	-1.0	-1.0
GW 1*	7/17/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	0.002	-0.10	0.1040	-1.2	-0.2	2.3	-1.0
GW 1*	10/15/91	0.36	-0.001	-0.01	-0.01	0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.1500	4.9	-0.2	-1.0	-1.0
GW 1*	1/15/92	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	0.13	-0.10	-0.05	-0.001	-0.10	0.1050	-1.3	-0.2	-1.0	-1.0
GW 1*	4/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0940	-1.3	-0.2	-1.0	-1.0
GW 1*	7/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	0.001	-0.10	0.0700	2.0	-0.2	2.2	-1.0
GW 1*	10/6/92	0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	0.007	-0.10	0.0490	-1.8	-0.2	1.2	-1.0
GW 1*	1/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	0.007	-0.10	0.0970	2.9	-0.2	-1.0	-1.0
GW 1*	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.002	-0.10	0.1000	-4.5	-0.2	2.2	3.9
GW 1*	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.004	-0.10	0.0990	-1.9	-0.2	3.3	-1.0
GW 1*	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	0.005	-0.10	0.0750	4.4	-0.2	-1.0	-1.0
GW 1*	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0690	6.8	-0.2	-1.0	9.5
GW 1*	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	0.001	-0.10	0.0890	1.9	-0.2	1.9	2.8
GW 1*	7/21/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.001	-0.10	0.0820	-2.2	-0.2	1.1	1.4
GW 1*	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.001	-0.10	0.0820	-1.2	-0.2	3.1	-1.0
GW 1*	1/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0690	3.3	-0.2	-1.0	4.6
GW 1*	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	-0.001	-0.10	0.0740	3.9	-0.2	-1.0	4.9
GW 1*	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.002	-0.10	0.0623	-1.4	-0.2	-1.0	-1.0
GW 1*	10/3/95	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.019	-0.10	0.0559	-1.2	-0.2	-1.0	-1.0
GW 1*	1/3/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.027	-0.10	0.0580	-1.2	-0.2	-1.0	-1.0
GW 1*	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0500	-1.2	-0.2	-1.0	-1.0
GW 1*	7/7/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.006	-0.10	0.0600	-1.3	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
GW 2*	10/16/89	6870.1	7.0	7.05	5,564	789	479	266	11.7	1,818	2,314	181	0.10	76.0	-0.00100	-0.001	-0.005
GW 2*	1/10/90	6869.7	6.7	7.02	5,470	752	421	264	8.8	1,451	2,329	184	0.08	84.0	-0.00100	-0.001	-0.005
GW 2*	4/5/90	6869.4	6.5	7.06	5,277	862	391	256	8.1	1,730	2,226	183	0.11	113	-0.00100	-0.001	-0.005
GW 2*	7/3/90	6868.9	6.3	6.91	5,179	801	667	286	9.9	2,001	2,161	195	-0.05	52.2	-0.00100	-0.001	-0.005
GW 2*	10/3/90	6868.7	6.5	7.25	5,801	888	522	289	9.4	1,602	2,395	193	-0.05	61.9	-0.00100	-0.001	-0.005
GW 2*	1/16/91	6868.9	6.6	7.11	5,775	926	458	297	8.3	1,552	2,444	202	0.05	88.2	-0.00100	-0.001	-0.005
GW 2*	4/2/91	6868.8	6.5	6.90	5,621	812	432	280	8.1	1,465	2,560	206	-0.05	102	-0.00100	-0.001	-0.005
GW 2*	7/17/91	6867.5	6.5	7.30	5,820	790	430	258	8.5	1,769	2,638	199	0.05	131	-0.00100	-0.001	-0.005
GW 2*	10/15/91	6866.8	6.2	6.89	6,209	737	579	287	9.0	2,011	2,868	197	-0.05	28.8	-0.00100	-0.001	-0.005
GW 2*	1/15/92	6866.9	6.2	7.11	5,127	765	428	259	7.9	1,278	2,285	187	-0.05	51.6	-0.00100	-0.001	-0.005
GW 2*	4/8/92	6867.0	6.2	7.53	5,275	725	531	286	10.3	1,687	2,613	177	-0.05	22.9	-0.00100	-0.001	-0.005
GW 2*	7/8/92	6865.2	6.1	7.24	6,313	802	581	402	12.8	1,931	3,194	171	0.07	54.0	-0.00100	-0.001	-0.005
GW 2*	10/6/92	6864.1	6.4	7.26	5,590	901	422	316	8.8	1,563	2,256	166	-0.05	100	-0.00100	-0.001	-0.005
GW 2*	1/7/93	6864.2	6.4	7.62	5,795	730	521	296	10.1	1,763	2,584	177	-0.05	64.0	-0.00100	-0.001	-0.005
GW 2*	4/7/93	6864.7	6.5	7.24	5,140	670	430	314	6.9	1,529	2,250	173	-0.05	79.8	-0.00100	-0.001	-0.005
GW 2*	7/14/93	6863.0	6.7	7.18	5,500	776	437	308	7.7	1,612	2,501	178	0.05	79.8	-0.00100	-0.001	-0.005
GW 2*	10/7/93	6862.6	6.8	7.44	4,812	693	371	268	6.9	1,386	2,107	159	0.05	111	-0.00100	-0.001	-0.005
GW 2*	1/6/94	6861.6	6.8	7.14	5,185	673	461	277	7.4	1,556	2,444	170	0.16	68.1	-0.00100		
GW 2*	4/12/94	6862.3	6.7	7.03	5,006	748	355	250	7.0	1,536	2,238	165	0.24	80.5	-0.00100		
GW 2*	7/21/94	6861.6	6.7	7.35	5,402	774	470	247	8.6	1,614	2,859	170	0.06	52.0	-0.00100		
GW 2*	10/5/94	6861.2	6.4	7.51	5,989	727	590	288	10.0	1,707	2,683	177	-0.05	29.9	-0.00100		
GW 2*	1/4/95	6861.2	6.4	7.16	6,044	748	561	270	10.9	1,703	2,866	174	0.27	25.3	-0.00100		
GW 2*	4/5/95	6861.7	6.5	6.91	6,020	660	635	285	10.4	1,745	2,955	170	0.19	23.1	-0.00100		
GW 2*	7/6/95	6862.4	6.5	7.49	5,305	760	475	265	8.6	1,409	2,404	194	0.27	48.1	-0.00100		
GW 2*	10/3/95	6862.6	6.3	7.45	5,826	655	600	268	9.5	1,791	2,841	178	0.20	17.7	-0.00100		
GW 2*	1/3/96	6859.6	6.4	6.91	5,302	595	575	280	9.7	1,802	2,409	133	-0.05	16.7	-0.00100		
GW 2*	4/2/96	6859.4	6.5	7.64	6,059	622	550	282	10.0	1,732	2,936	167	-0.05	24.1	-0.00100		
GW 2*	7/7/96	6859.1	6.3	7.19	6,246	600	595	286	10.4	1,643	2,870	155	0.10	20.5	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
GW 2*	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.31	-0.10	-0.05	0.001	-0.10	0.1960	3.8	11.0	1.5	15.0
GW 2*	1/10/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	-0.001	-0.10	0.1830	-0.3	1.0	-1.0	2.3
GW 2*	4/5/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.41	-0.10	-0.05	0.001	-0.10	0.2050	-0.6	-0.2	1.3	0.8
GW 2*	7/3/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	0.48	-0.10	-0.05	-0.001	-0.10	0.1460	-0.5	-0.2	-1.0	-1.0
GW 2*	10/3/90	-0.10	-0.001	-0.05	-0.01	0.02	-0.05	0.55	-0.10	-0.05	-0.001	-0.10	0.2215	-0.3	-0.2	-1.0	-1.0
GW 2*	1/16/91	-0.10	-0.001	-0.01	0.01	-0.01	-0.05	0.39	-0.10	-0.05	0.002	-0.10	0.2404	-0.3	-0.2	-1.0	-1.0
GW 2*	4/2/91	-0.10	-0.001	-0.01	0.02	0.01	-0.05	0.51	-0.10	-0.05	0.001	-0.10	0.1370	-1.9	-0.2	-1.0	-1.0
GW 2*	7/17/91	-0.10	-0.001	-0.01	0.03	-0.01	-0.05	0.50	-0.10	-0.05	0.001	-0.10	0.1520	-1.2	-0.2	-1.0	-1.0
GW 2*	10/15/91	0.27	-0.001	-0.01	-0.01	-0.01	-0.05	0.55	-0.10	-0.05	-0.001	-0.10	0.1970	-3.3	-0.2	-1.0	-1.0
GW 2*	1/15/92	-0.10	-0.001	-0.01	-0.01	0.03	-0.05	0.48	-0.10	-0.05	-0.001	-0.10	0.1530	-1.5	-0.2	2.2	-1.0
GW 2*	4/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.46	-0.10	-0.05	0.006	-0.10	0.1650	-1.2	-0.2	2.4	-1.0
GW 2*	7/8/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.40	-0.10	-0.05	0.001	-0.10	0.1300	-1.2	-0.2	-1.0	-1.0
GW 2*	10/6/92	-0.10	-0.001	-0.01	-0.01	-0.01	0.06	0.15	-0.10	-0.05	0.002	-0.10	0.2420	2.1	-0.2	-1.0	-1.0
GW 2*	1/7/93	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	0.25	-0.10	-0.05	0.005	-0.10	0.1810	8.7	-0.2	-1.0	-1.0
GW 2*	4/7/93	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.001	-0.10	0.2000	4.8	-0.2	-1.0	-1.0
GW 2*	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	0.001	-0.10	0.0840	-3.3	-0.2	-1.0	-1.0
GW 2*	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.001	-0.10	0.1180	2.8	-0.2	-1.0	-1.0
GW 2*	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.1160	5.1	-0.2	1.8	8.5
GW 2*	4/12/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.29	-0.10	-0.05	-0.001	-0.10	0.2010	-2.2	-0.2	3.2	1.4
GW 2*	7/21/94	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	0.002	-0.10	0.1170	8.3	-0.2	-1.0	12.5
GW 2*	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.32	-0.10	-0.05	-0.001	-0.10	0.0940	-1.4	-0.2	1.4	-1.0
GW 2*	1/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.35	-0.10	-0.05	-0.001	-0.10	0.0870	4.3	-0.2	-1.0	5.7
GW 2*	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.42	-0.10	-0.05	-0.001	-0.10	0.0710	1.5	-0.2	4.4	2.2
GW 2*	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.002	-0.10	0.1959	-2.7	-0.2	-1.0	2.8
GW 2*	10/3/95	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.39	-0.10	-0.05	-0.001	-0.10	0.0751	-1.2	-0.2	1.8	-1.0
GW 2*	1/3/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.39	-0.10	-0.05	-0.001	-0.10	0.0710	-1.2	-0.2	2.4	-1.0
GW 2*	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.44	-0.10	-0.05	-0.001	-0.10	0.1180	-1.2	-0.2	-1.0	-1.0
GW 2*	7/7/96	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	0.49	-0.10	-0.05	0.001	-0.10	0.0990	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
GW 3	10/16/89	6870.4	6.8	7.51	4,658	802	256	210	7.0	1,214	1,704	150	0.11	141	-0.00100	-0.001	-0.005
GW 3	1/4/90	6870.2	6.4	6.74	4,784	890	259	217	5.1	1,452	1,847	177	0.13	146	-0.00100	-0.001	-0.005
GW 3	4/3/90	6869.6	6.8	7.18	4,859	888	280	218	5.1	1,362	1,775	170	0.11	111	-0.00100	-0.001	-0.005
GW 3	7/2/90	6869.2	6.4	7.00	4,794	954	276	195	6.9	1,418	1,841	164	-0.05	147	-0.00100	-0.001	-0.005
GW 3	10/2/90	6869.1	6.6	7.18	4,699	770	245	211	5.1	1,222	1,911	169	-0.05	102	-0.00100	-0.001	-0.005
GW 3	1/16/91	6869.1	6.5	7.12	4,805	928	290	229	8.8	1,057	2,004	189	-0.05	148	-0.00100	-0.001	-0.005
GW 3	4/2/91	6869.0	6.5	7.15	4,935	897	272	221	4.7	1,043	1,990	185	-0.05	162	-0.00100	-0.001	-0.005
GW 3	7/16/91	6867.8	6.6	7.09	4,829	828	255	212	5.4	1,526	2,011	103	0.17	37.5	-0.00100	-0.001	-0.005
GW 3	10/14/91	6866.9	6.4	6.84	5,094	739	226	227	4.7	1,330	1,856	197	-0.05	87.2	-0.00100	-0.001	-0.005
GW 3	1/14/92	6867.2	6.4	7.01	4,589	794	262	212	5.8	1,345	1,762	172	-0.05	90.1	-0.00100	-0.001	-0.005
GW 3	4/9/92	6867.2	6.5	7.32	4,757	836	267	261	7.4	1,114	1,874	179	0.14	86.8	-0.00100	-0.001	-0.005
GW 3	7/7/92	6865.4	6.3	7.42	4,877	785	295	274	7.6	964	1,907	111	0.08	112	-0.00100	-0.001	-0.005
GW 3	10/7/92	6864.2	6.5	7.32	4,766	849	273	288	9.3	1,537	1,932	182	-0.05	120	-0.00100	-0.001	-0.005
GW 3	1/7/93	6864.3	6.4	7.48	5,105	903	260	244	6.0	1,610	1,968	188	-0.05	134	-0.00100	-0.001	-0.005
GW 3	4/7/93	6864.9	6.4	7.07	4,791	851	248	277	4.7	1,419	1,879	183	-0.05	112	-0.00100	-0.001	-0.005
GW 3	7/14/93	6863.4	6.4	7.09	4,780	989	270	293	5.7	1,745	1,913	201	-0.05	94.7	-0.00100	-0.001	-0.005
GW 3	10/7/93	6862.7	6.6	7.22	4,614	889	252	238	6.1	1,540	1,813	71.8	0.05	119	-0.00100	-0.001	-0.005
GW 3	1/6/94	6862.7	6.5	7.04	4,960	889	251	261	5.6	1,573	1,836	177	0.11	107	-0.00100		
GW 3	4/13/94	6863.0	6.6	6.86	4,709	866	244	234	5.7	1,525	1,825	167	0.39	113	-0.00100		
GW 3	7/21/94	6861.8	6.5	7.16	4,790	953	256	250	6.2	1,512	1,943	160	0.13	105	-0.00100		
GW 3	10/5/94	6861.5	6.3	7.59	4,949	942	250	271	6.7	1,481	1,938	165	0.25	117	-0.00100		
GW 3	1/5/95	6861.5	6.4	7.34	5,101	990	263	256	7.4	1,532	1,938	152	0.32	95.4	-0.00100		
GW 3	4/5/95	6862.3	6.5	7.07	4,978	920	240	224	5.2	1,519	2,090	210	0.41	104	-0.00100		
GW 3	7/6/95	6860.8	6.4	7.50	4,792	914	281	252	6.3	1,519	1,858	171	0.27	96.4	-0.00100		
GW 3	10/3/95	6860.2	6.5	7.41	5,055	905	267	232	5.8	1,512	1,905	174	0.41	99.1	-0.00100		
GW 3	1/3/96	6859.8	6.5	6.96	4,495	805	240	235	6.1	1,521	1,650	138	-0.05	106	-0.00100		
GW 3	4/2/96	6859.8	6.4	7.64	5,010	875	275	260	7.0	1,510	1,915	155	-0.05	111	-0.00100		
GW 3	7/7/96	6859.7	6.3	7.13	4,844	865	260	245	7.4	1,434	1,860	150	0.14	102	-0.00100		

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
GW 3	10/16/89	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.50	-0.10	-0.05	0.005	-0.10	0.1320	-1.5	3.3	-1.0	4.1
GW 3	1/4/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.50	-0.10	-0.05	0.002	-0.10	0.1320	-1.9	-0.2	-1.0	1.2
GW 3	4/3/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	1.20	-0.10	-0.05	0.001	-0.10	0.1030	-2.0	-0.2	-1.0	1.5
GW 3	7/2/90	-0.10	-0.001	-0.05	-0.01	0.01	-0.05	1.29	-0.10	-0.05	-0.001	-0.10	0.1360	1.4	-0.2	-1.0	-1.0
GW 3	10/2/90	-0.10	-0.001	-0.05	0.01	0.01	-0.05	1.50	-0.10	-0.05	-0.001	-0.10	0.0940	-1.2	-0.2	-1.0	-1.0
GW 3	1/16/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.45	-0.10	-0.05	-0.001	-0.10	0.1387	-1.2	-0.2	-1.0	-1.0
GW 3	4/2/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.43	-0.10	-0.05	0.002	-0.10	0.0700	-1.3	-0.2	5.6	-1.0
GW 3	7/16/91	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	1.40	-0.10	-0.05	-0.001	-0.10	0.1280	-1.3	-0.2	12.8	-1.0
GW 3	10/14/91	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	1.11	-0.10	-0.05	0.001	-0.10	0.1400	-1.2	-0.2	-1.0	-1.0
GW 3	1/14/92	0.16	-0.001	-0.01	-0.01	0.02	-0.05	1.61	-0.10	0.11	0.001	-0.10	0.0800	-1.2	-0.2	13.6	-1.0
GW 3	4/9/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.21	-0.10	-0.05	0.024	-0.10	0.1550	4.2	-0.2	-1.0	-1.0
GW 3	7/7/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.25	-0.10	-0.05	0.002	-0.10	0.1200	-2.9	-0.2	-1.0	-1.0
GW 3	10/7/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.92	-0.10	-0.05	0.002	-0.10	0.3310	-1.8	-0.2	-1.0	3.3
GW 3	1/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.71	-0.10	-0.05	0.005	-0.10	0.6020	3.7	-0.2	-1.0	-1.0
GW 3	4/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.64	-0.10	-0.05	0.001	-0.10	0.2190	-1.6	-0.2	2.2	-1.0
GW 3	7/14/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.81	-0.10	-0.05	0.001	-0.10	0.1350	4.6	-0.2	-1.0	1.8
GW 3	10/7/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.79	-0.10	-0.05	0.002	-0.10	0.0800	-1.6	-0.2	-1.0	-1.0
GW 3	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.10	-0.05	-0.001	-0.10	0.0990	-1.8	-0.2	-1.0	-1.0
GW 3	4/13/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.89	-0.10	-0.05	-0.001	-0.10	0.0960	-2.7	-0.2	5.9	1.9
GW 3	7/21/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	2.26	-0.10	-0.05	-0.001	-0.10	0.0820	-1.4	-0.2	-1.0	-1.0
GW 3	10/5/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.87	-0.10	-0.05	-0.001	-0.10	0.0830	-1.3	-0.2	1.7	1.5
GW 3	1/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.97	-0.10	-0.05	-0.001	-0.10	0.0780	3.4	-0.2	-1.0	4.8
GW 3	4/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.91	-0.10	-0.05	-0.001	-0.10	0.0800	-1.5	-0.2	-1.0	-1.0
GW 3	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.92	-0.10	-0.05	0.002	-0.10	0.0882	-1.2	-0.2	-1.0	-1.0
GW 3	10/3/95	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	1.93	-0.10	-0.05	0.012	-0.10	0.0868	-1.3	-0.2	-1.0	-1.0
GW 3	1/3/96	-0.10	0.002	-0.01	-0.01	-0.01	-0.05	1.74	-0.10	-0.05	0.014	-0.10	0.0810	-1.4	0.4	-1.0	-1.0
GW 3	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.82	-0.10	-0.05	-0.001	-0.10	0.0870	-1.2	-0.2	-1.0	-1.0
GW 3	7/7/96	-0.10	0.01	-0.01	-0.01	-0.01	-0.05	1.99	-0.10	-0.05	-0.001	-0.10	0.1000	-1.3	1.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30	NA	NA	NA
GW 4	10/12/89	6915.0	7.2	7.48	4,078	680	202	202	18.0	793	1,822	50.2	0.21	134	-0.00100	-0.001	-0.005
GW 4	1/4/90	6914.6	7.2	7.28	4,036	728	222	198	14.1	775	1,780	51.7	0.11	134	-0.00100	-0.001	-0.005
GW 4	4/3/90	6913.6	7.1	7.40	4,193	740	212	194	14.0	789	1,707	52.4	0.09	120	-0.00100	-0.001	-0.005
GW 4	7/2/90	6912.7	6.8	7.30	4,326	830	214	167	13.8	866	1,651	54.7	-0.05	176	-0.00100	-0.001	-0.005
GW 4	10/3/90	6912.4	6.9	7.31	4,135	699	198	198	14.4	732	1,610	56.2	-0.05	116	-0.00100	-0.001	-0.005
GW 4	1/15/91	6912.4	7.0	7.29	4,064	759	213	189	13.3	731	1,678	54.6	-0.05	176	-0.00100	-0.001	-0.005
GW 4	4/2/91	6912.7	7.1	7.59	3,990	641	183	180	12.4	550	1,660	46.3	-0.05	162	-0.00100	-0.001	-0.005
GW 4	7/17/91	6914.4	7.1	7.55	3,981	578	190	164	12.9	527	1,703	41.2	0.08	132	-0.00100	-0.001	-0.005
GW 4	10/15/91	6913.8	7.0	7.26	3,880	698	214	165	13.4	732	1,826	43.8	-0.05	67.6	-0.00100	-0.001	-0.005
GW 4	1/15/92	6913.1	7.0	7.03	3,779	619	189	163	11.8	623	1,803	38.7	-0.05	77.4	-0.00100	-0.001	-0.005
GW 4	4/7/92	6912.2	7.0	7.19	3,334	579	177	185	14.1	602	1,621	38.7	0.06	78.2	-0.00100	-0.001	-0.005
GW 4	7/8/92	6911.5	7.0	7.59	3,505	661	190	233	14.7	636	1,663	40.7	0.20	108	-0.00100	-0.001	-0.005
GW 4	10/6/92	6910.9	7.1	7.35	3,857	762	204	187	13.2	585	1,727	42.0	-0.05	162	-0.00100	-0.001	-0.005
GW 4	1/6/93	6910.4	7.1	7.72	3,595	667	175	180	12.6	714	1,454	49.1	0.13	138	-0.00100	-0.001	-0.005
GW 4	4/6/93	6910.3	7.2	7.63	3,898	665	177	192	10.6	736	1,694	51.2	-0.05	137	-0.00100	-0.001	-0.005
GW 4	7/13/93	6910.5	7.1	7.13	4,181	727	195	168	12.6	755	1,820	47.0	0.10	125	-0.00100	-0.001	-0.005
GW 4	10/6/93	6910.6	7.3	7.45	4,081	694	177	170	11.3	780	1,700	42.1	-0.05	124	-0.00100	-0.001	-0.005
GW 4	1/6/94	6911.6	7.2	7.71	3,798	656	169	171	10.7	798	1,689	40.2	0.17	82.4	-0.00100		
GW 4	4/13/94	6911.7	7.1	7.20	3,682	658	170	157	11.1	752	1,688	39.1	0.30	109	-0.00100		
GW 4	7/20/94	6910.8	7.1	7.09	3,676	727	195	157	12.0	733	1,729	40.1	0.18	110	-0.00100		
GW 4	10/4/94	6910.7	7.1	7.78	3,849	721	198	181	12.0	712	1,796	45.6	0.13	119	-0.00100		
GW 4	1/5/95	6910.3	7.1	7.42	3,937	746	192	168	13.0	738	1,697	45.6	0.22	122	-0.00100		
GW 4	4/4/95	6910.4	7.2	7.47	3,989	790	216	182	12.8	805	1,844	49.0	0.44	141	-0.00100		
GW 4	7/6/95	6909.4	7.2	7.63	3,957	740	207	183	15.2	610	1,740	58.0	0.85	141	-0.00100		
GW 4	10/3/95	6909.2	7.1	7.82	4,277	715	213	172	12.6	630	1,692	51.0	3.01	165	-0.00100		
GW 4	1/2/96	6909.2															
GW 4	4/2/96	6909.2	7.1	7.83	4,092	718	193	166	12.4	706	1,688	46.6	0.37	146	-0.00100		
GW 4	7/9/96	6908.6															

Refer to page 1 for explanatory notes

TABLE B.1

SOUTHWEST ALLUVIUM DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.02	0.01	0.05	0.05	2.60	1.00	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
GW 4	10/12/89	0.12	-0.001	-0.05	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.008	-0.10	0.0770	-2.2	-0.2	1.1	2.0
GW 4	1/4/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.005	-0.10	0.0770	-3.9	-0.2	-1.0	3.1
GW 4	4/3/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	0.006	-0.10	0.0770	-2.0	0.4	-1.0	1.7
GW 4	7/2/90	-0.10	-0.001	-0.05	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.004	-0.10	0.0756	-1.2	-0.2	-1.0	-1.0
GW 4	10/3/90	-0.10	0.001	-0.05	-0.01	0.02	-0.05	0.11	-0.10	-0.05	-0.001	-0.10	0.0590	-2.9	-0.2	-1.0	-1.0
GW 4	1/15/91	0.24	-0.001	-0.01	-0.01	0.01	-0.05	0.04	-0.10	-0.05	0.004	-0.10	0.0647	-1.8	-0.2	-1.0	1.2
GW 4	4/2/91	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.005	-0.10	0.0480	-1.2	-0.2	2.2	-1.0
GW 4	7/17/91	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.008	-0.10	0.0440	-1.2	-0.2	-1.0	-1.0
GW 4	10/15/91	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.008	-0.10	0.0440	-2.2	-0.2	-1.0	-1.0
GW 4	1/15/92	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	0.006	-0.10	0.1240	-2.1	-0.2	-1.0	-1.0
GW 4	4/7/92	-0.10	0.004	-0.01	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.019	-0.10	0.0700	-7.3	-0.2	6.3	-1.0
GW 4	7/8/92	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.004	-0.10	0.0470	2.8	-0.2	-1.0	-1.0
GW 4	10/6/92	0.10	0.002	-0.01	-0.01	-0.01	-0.05	0.05	0.10	-0.05	0.016	-0.10	0.0860	1.3	-0.2	-1.0	-1.0
GW 4	1/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.015	-0.10	0.1110	-3.3	-0.2	-1.0	5.1
GW 4	4/6/93	-0.10	0.001	-0.01	-0.01	0.01	-0.05	0.05	-0.10	-0.05	0.010	-0.10	0.0810	-1.3	-0.2	2.8	-1.0
GW 4	7/13/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.016	-0.10	0.0640	-1.2	-0.2	3.2	-1.0
GW 4	10/6/93	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.05	-0.10	-0.05	0.007	-0.10	0.0730	-1.5	-0.2	1.2	1.9
GW 4	1/6/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	0.007	-0.10	0.0520	6.6	-0.2	1.6	10.6
GW 4	4/13/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.004	-0.10	0.0670	-1.9	-0.2	6.8	-1.0
GW 4	7/20/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.007	-0.10	0.0670	15.3	-0.2	-1.0	22.9
GW 4	10/4/94	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.004	-0.10	0.0870	-1.2	-0.2	-1.0	-1.0
GW 4	1/5/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.002	-0.10	0.0620	-2.1	-0.2	-1.0	1.3
GW 4	4/4/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.005	-0.10	0.0720	-1.6	-0.2	-1.0	-1.0
GW 4	7/6/95	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.012	-0.10	0.0374	-1.9	0.4	-1.0	-1.0
GW 4	10/3/95	-0.10	0.004	-0.01	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.019	-0.10	0.0711	-1.3	-0.2	-1.0	1.3
GW 4	1/2/96																
GW 4	4/2/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0650	-1.3	-0.2	-1.0	-1.0
GW 4	7/9/96																

Refer to page 1 for explanatory notes

APPENDIX B

ZONE 3 MONITORING DATA

Remedial action in Zone 3 has consisted of the operation of the Northeast Pump-Back Wells (Wells 600, 608, 610, 613, and 672) and installation and operation of 12 Stage I Extraction Wells (Wells 701-703 and 705-713) in mid-1989 and seven Stage II Extraction Wells (Wells 714-720) in mid-1991. Remedial action has been monitored since the third quarter 1989 by measurement of ground water levels and ground water sampling and analyses at 19 Zone 3 monitoring wells (Wells 106 D, 9D, 517, 518, 504 B, 502 B, 501 B, 420, 411, EPA 18, EPA 17, EPA 15, EPA 14, EPA 13, EPA 12, EPA 11, EPA 9, EPA 3, and EPA 1). Well 126 was added to the monitoring program in the third quarter 1990 to measure water-levels in accordance with the requirements of the Nuclear Regulatory Commission (NRC) and the U.S. Environmental Protection Agency (EPA).

At the end of the 1993 operating year, the extraction and performance monitoring systems for Zone 3 were modified with the approval of the NRC and EPA. Modifications included discontinuing pumping at 10 low-producing extraction wells (Wells 600, 608, 610, 672, 702, 703, 705, 710, 712, and 713) and at two extraction wells which were intercepting background water (Wells 714 and 715). Water levels were measured at seven of these former extraction wells (Wells 608, 702, 703, 710, 712, 714, and 715) during 1996 to augment the existing monitoring system.

Table C.1 presents the quarterly water level and water quality data for the monitoring wells from the start-up of the Stage I wells in the third quarter 1989 through the third quarter 1996. The Zone 3 ground water extraction system and declining recharge from the alluvium have resulted in dewatering a large portion of the Zone 3 Remedial Action Target Area and consequently, many of the monitoring wells have gone dry since 1989. For these wells, water level and water quality data are presented for the period of time prior to their dewatering. The laboratory analytical data for 1996 are presented at the end of this appendix.

SMITH

TABLE

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

General Notes:

1. NRC standard as listed in License Condition 30, Part B.
2. EPA standard as listed in Table 2, "Contaminant-Specific Groundwater ARARs" of the ROD (EPA, 1988c). Recommendations have been made for revising EPA standards for TDS, NO_3 and SO_4.
3. NA - Not applicable.
4. "-" (Minus sign) indicates that the concentration is less than the laboratory limits of detection. A minus sign for combined Ra-226 and Ra-228 indicates that at least one of these constituents was less than the laboratory limits of detection, which are 0.2 and 1.0 pCi/l, respectively.
5. All values that exceed the NRC and/or EPA standards are shaded.
6. Gross alpha value excludes contribution from radon and uranium.
7. "*" (Asterisk) indicates a Point of Compliance well.

Specific Notes:

Well 9 D contained insufficient water for sampling, 4th quarter 1991.
Well 106 D contained insufficient water for sampling, 3rd quarter 1992.
Well 501 B* contained insufficient water for sampling, 4th quarter 1993.
Well EPA 3* contained insufficient water for sampling, 1st quarter 1992.
The water level in EPA-11 fell below the pump inlet after 2nd quarter 1990. The pump is cemented in place and cannot be lowered.
Well EPA 12 contained insufficient water for sampling, 4th quarter 1992.
Well EPA 15 contained insufficient water for sampling, 1st quarter 1996.
Well EPA 17 contained insufficient water for sampling, 3rd quarter 1992.
Well EPA 18 contained insufficient water for sampling, 1st quarter 1995.

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0009 D	7/18/89	6910.5	4.6	4.56	7,365	465	963	158	10.7	1.0	5,081	100.0	0.79	2.50	-0.00100	-0.0010	-0.005
0009 D	10/12/89	6908.0	4.4	4.10	8,276	439	1,013	159	13.4	0.0	5,508	108.0	0.87	2.40	-0.00100	-0.0010	-0.005
0009 D	1/4/90	6902.3	4.4	4.04	8,330	431	940	160	10.0	0.0	5,597	94.4	0.60	0.55	-0.00100	-0.0010	-0.005
0009 D	4/10/90	6910.0	4.4	4.41	7,222	447	856	160	9.1	0.0	4,686	99.1	1.08	6.30	-0.00100	-0.0010	-0.005
0009 D	7/10/90	6904.1	4.4	4.14	8,932	473	1,012	153	9.5	0.0	6,126	101.0	0.37	0.26	-0.00100	-0.0010	-0.005
0009 D	10/9/90	6903.7	4.3	4.21	9,372	435	1,094	172	9.7	0.0	6,551	124.0	0.24	0.10	-0.00100	-0.0010	-0.005
0009 D	1/15/91	6902.3	4.5	4.37	7,769	469	887	159	11.6	0.0	5,383	113.0	0.65	0.12	-0.00100	-0.0010	-0.005
0009 D	4/9/91	6903.7	4.2	4.18	9,518	485	1,106	163	10.7	0.0	6,305	80.2	1.04	0.39	-0.00100	-0.0010	-0.005
0009 D	7/9/91	6899.4	4.3	4.40	8,444	412	883	141	8.9	0.0	5,681	44.1	1.18	0.05	-0.00100	-0.0010	-0.005
0009 D	10/14/91	6899.3	4.1	4.35	8,946	363	717	160	8.3	0.0	5,904	191.0	2.30	-0.01	-0.00100	-0.0010	-0.005
0009 D	1/21/92	6898.6	4.3	4.31	8,112	444	1,028	153	10.2	0.0	5,648	108.0	1.11	1.24	-0.00100	-0.0010	-0.005
0009 D	4/7/92	6897.8	4.3	4.09	8,533	426	767	185	11.5	0.0	5,628	124.0	1.31	-0.10	-0.00100	-0.0010	-0.005
0106 D	7/18/89	6909.1	4.2	4.66	4,068	476	425	113	17.3	2.0	2,928	45.7	1.12	67.00	-0.00100	-0.0010	-0.005
0106 D	10/11/89	6906.8	4.7	4.76	4,182	465	332	113	21.2	6.8	2,582	46.3	0.97	52.00	0.00330	-0.0010	0.005
0106 D	1/4/90	6905.9	4.3	4.37	4,150	466	339	110	16.4	0.0	2,502	47.5	0.86	56.00	0.00230	-0.0010	-0.005
0106 D	4/10/90	6904.2	4.3	4.93	4,180	483	350	110	17.0	6.8	2,452	48.2	1.54	58.00	0.00190	-0.0010	-0.005
0106 D	7/10/90	6903.2	4.6	4.76	4,259	455	332	99.4	15.1	8.5	2,439	44.2	0.14	64.30	0.00280	-0.0010	-0.005
0106 D	10/9/90	6902.3	4.5	4.99	4,256	437	342	113	14.6	9.8	2,536	50.0	0.13	52.00	0.00960	-0.0010	-0.005
0106 D	1/15/91	6902.4	4.8	6.35	4,121	545	383	112	13.3	65	2,563	56.0	0.12	57.50	0.01000	-0.0010	-0.005
0106 D	4/9/91	6903.0	5.2	6.69	4,014	591	380	117	11.6	125	2,481	55.3	0.10	67.00	0.01770	-0.0010	-0.005
0106 D	7/9/91	6901.9	4.9	5.89	4,247	575	360	99.0	13.7	20	2,770	156.0	0.49	44.30	0.00622	-0.0010	-0.005

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0009 D	7/18/89	43.00	-0.001	-0.050	-0.01	0.65	0.08	14.00	-0.10	0.86	-0.001	-0.10	0.0077	7.3	1.1	4.5	17.6
0009 D	10/12/89	90.00	-0.001	-0.050	-0.01	0.94	0.37	17.00	-0.01	1.20	-0.001	-0.10	0.0180	4.2	0.0	1.5	3.5
0009 D	1/4/90	96.00	-0.001	-0.050	0.01	1.00	0.14	18.00	-0.10	1.40	-0.001	-0.10	0.0120	5.7	-0.2	6.7	1.9
0009 D	4/10/90	46.00	-0.001	-0.050	0.01	0.75	0.12	15.00	-0.10	0.97	-0.001	-0.10	0.0395	4.9	-0.2	1.5	3.0
0009 D	7/10/90	155.00	-0.001	-0.050	-0.01	0.83	0.13	19.30	-0.10	1.56	-0.001	-0.10	0.0170	10.3	-0.2	-1.0	5.0
0009 D	10/9/90	153.00	-0.001	-0.050	0.02	1.52	0.13	23.00	-0.10	2.13	-0.001	-0.10	0.0157	11.8	-0.2	1.6	4.0
0009 D	1/15/91	50.40	-0.001	0.020	0.01	0.71	0.09	12.80	-0.10	0.88	-0.001	-0.10	0.0065	7.4	-0.2	2.7	6.2
0009 D	4/9/91	115.00	-0.001	-0.050	0.02	0.83	0.13	13.10	-0.10	1.16	-0.001	-0.10	0.0098	13.1	1.2	-1.0	6.0
0009 D	7/9/91	76.60	-0.001	0.020	0.01	0.79	-0.05	17.00	-0.10	1.09	-0.001	-0.10	0.0062	5.4	-0.2	-1.0	3.0
0009 D	10/14/91	128.00	-0.001	-0.010	0.01	1.30	-0.05	22.10	-0.10	1.83	-0.001	-0.10	0.0470	7.6	-0.2	-1.0	7.0
0009 D	1/21/92	55.10	0.001	0.010	0.02	0.74	0.26	17.10	-0.10	1.07	0.020	-0.10	0.0090	10.5	-0.2	-1.0	9.3
0009 D	4/7/92	150.00	-0.001	0.040	-0.01	1.24	0.27	22.00	-0.10	1.78	-0.001	-0.10	0.0220	24.1	-0.2	-1.0	15.8
0106 D	7/18/89	8.00	-0.001	-0.050	-0.01	0.15	-0.05	12.00	-0.10	0.26	-0.001	-0.10	0.0029	13.9	4.5	2.2	22.5
0106 D	10/11/89	6.50	-0.001	-0.050	-0.01	0.16	0.06	12.00	0.06	0.25	0.031	-0.10	0.0450	10.6	-0.2	4.7	3.5
0106 D	1/4/90	7.40	-0.001	-0.050	-0.01	0.14	-0.05	12.00	-0.10	0.27	-0.001	-0.10	0.0020	17.7	-0.2	2.8	6.7
0106 D	4/10/90	7.80	-0.001	-0.050	-0.01	0.12	-0.05	12.00	-0.10	0.29	0.001	-0.10	0.0320	11.3	-0.2	-1.0	6.0
0106 D	7/10/90	6.50	-0.001	-0.050	-0.01	0.12	-0.05	12.40	-0.10	0.25	-0.001	-0.10	0.0107	7.3	-0.2	1.9	3.0
0106 D	10/9/90	4.30	-0.001	-0.050	-0.01	0.11	-0.05	11.60	-0.10	0.24	-0.001	-0.10	0.0041	6.9	-0.2	-1.0	2.0
0106 D	1/15/91	0.77	-0.001	-0.010	-0.01	0.07	-0.05	7.70	0.18	0.10	-0.001	-0.10	0.0074	-1.8	-0.2	-1.0	1.1
0106 D	4/9/91	0.29	-0.001	-0.050	-0.01	0.04	-0.05	4.20	0.21	-0.05	-0.001	-0.10	0.0069	9.4	-0.2	-1.0	5.0
0106 D	7/9/91	0.90	-0.001	-0.010	-0.01	0.07	-0.05	7.90	0.20	0.10	0.040	-0.10	0.0085	6.7	-0.2	-1.0	3.0

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0411	7/23/89	6866.2	6.2	6.45	2,458	454	125	107	6.4	246	1,563	17.9	0.41	0.04	-0.00100	-0.0010	-0.005
0411	10/11/89	6864.9	6.3	6.90	2,628	470	128	110	9.5	243	1,688	20.0	0.55	0.09	-0.00100	-0.0010	-0.005
0411	1/3/90	6863.7	6.0	6.50	2,534	440	116	112	6.8	256	1,509	19.8	0.39	0.08	-0.00100	-0.0010	-0.005
0411	4/3/90	6862.3	6.0	6.60	2,545	431	117	109	6.6	270	1,444	19.7	0.33	0.08	-0.00100	-0.0010	-0.005
0411	7/2/90	6861.2	5.8	6.60	2,602	475	114	102	6.0	267	1,483	19.0	0.20	0.08	-0.00100	-0.0010	-0.005
0411	10/2/90	6860.3	6.2	6.85	2,527	406	110	109	6.5	266	1,607	20.1	0.11	0.05	-0.00100	-0.0010	-0.005
0411	1/3/91	6859.5	6.2	6.49	2,746	468	126	117	15.7	262	1,492	19.4	0.45	0.23	-0.00100	-0.0010	-0.005
0411	4/10/91	6859.2	6.0	7.23	2,600	467	118	111	7.8	277	1,453	22.3	0.19	0.05	-0.00100	-0.0010	-0.005
0411	7/16/91	6858.2	6.1	6.63	2,705	419	110	113	6.3	278	1,742	22.3	0.38	0.02	-0.00100	-0.0010	-0.005
0411	10/14/91	6855.3	6.0	7.28	2,851	414	99	123	5.8	271	1,640	28.6	0.30	0.02	-0.00100	-0.0010	-0.005
0411	1/14/92	6854.7	5.8	7.78	2,939	467	128	119	6.5	255	1,765	23.1	0.80	-0.01	-0.00100	-0.0010	-0.005
0411	4/7/92	6854.9	5.9	7.82	3,064	475	144	140	8.4	401	1,847	26.1	0.37	-0.10	-0.00100	-0.0010	-0.005
0411	7/7/92	6853.3	5.6	8.09	3,340	473	170	144	9.6	244	2,034	28.7	0.49	0.10	-0.00100	-0.0010	-0.005
0411	10/6/92	6850.9	6.0	8.15	3,860	634	239	139	9.2	259	2,352	27.4	0.44	6.05	-0.00100	-0.0010	-0.005
0411	1/6/93	6851.2	6.0	6.79	3,091	530	208	127	10.6	246	2,137	30.4	1.13	4.10	-0.00100	-0.0010	-0.005
0411	4/6/93	6851.3	6.1	6.65	3,306	510	200	140	8.0	245	2,257	35.1	0.84	1.80	-0.00100	-0.0010	-0.005
0411	7/16/93	6846.9	6.6	6.25	3,412	586	242	166	12.2	321	2,420	39.6	0.68	4.40	-0.00100	-0.0010	-0.005
0411	10/6/93	6848.0	7.1	6.81	4,026	614	285	149	9.3	340	2,591	41.3	0.33	14.30	-0.00100	-0.0010	-0.005
0411	1/5/94	6841.6	6.8	6.69	4,298	557	276	149	9.3	303	2,540	45.8	0.55	12.50	-0.00100		
0411	4/14/94	6847.4	7.1	6.51	4,006	620	274	146	9.8	294	2,634	42.1	1.06	8.80	-0.00100		
0411	7/21/94	6846.4	6.8	6.79	4,253	645	287	141	9.6	293	2,883	38.1	0.43	10.80	-0.00100		
0411	10/5/94	6846.2	6.8	7.36	4,053	636	286	141	9.9	274	2,509	36.9	0.99	5.17	-0.00100		
0411	1/10/95	6845.4	6.6	7.65	4,276	675	213	139	11.0	295	2,754	40.5	0.71	5.55	-0.00100		
0411	4/11/95	6842.9	6.6	6.35	4,320	645	283	152	9.5	182	2,862	50.0	0.64	5.86	-0.00100		
0411	7/11/95	6844.4	6.9	7.67	4,038	605	315	147	9.4	379	2,471	49.4	1.40	26.40	-0.00100		
0411	10/3/95	6842.9	6.8	8.06	4,526	645	322	162	9.1	383	2,684	47.0	0.46	27.3	-0.00100		
0411	1/4/96	6845.4	7.1	6.69	4,445	630	310	173	9.5	382	2,655	45.3	0.06	29.2	-0.00100		
0411	4/2/96	6844.5	7.0	7.67	4,338	604	300	146	9.8	366	2,666	40.0	0.2	8.92	-0.00100		
0411	7/17/96	6844.1	7.0	6.80	4,459	580	290	168	10.1	410	2,730	52.1	0.25	28.1	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0411	7/23/89	-0.10	0.020	-0.050	-0.01	0.05	-0.05	2.70	2.00	0.11	-0.001	-0.10	0.0543	13.0	10.2	-1.0	14.6
0411	10/11/89	-0.10	0.031	-0.050	-0.01	0.06	-0.05	3.00	2.50	0.09	-0.001	-0.10	0.0810	-6.4	-0.2	-1.0	6.0
0411	1/3/90	-0.10	0.018	-0.050	-0.01	0.03	-0.05	2.30	1.80	0.07	-0.001	-0.10	0.0550	9.1	-0.2	-1.0	8.2
0411	4/3/90	-0.10	0.018	-0.050	-0.01	0.05	-0.05	2.50	2.40	0.08	-0.001	-0.10	0.0500	7.1	-0.2	-1.0	5.3
0411	7/2/90	-0.10	0.009	-0.050	-0.01	0.04	-0.05	2.44	1.77	0.07	-0.001	-0.10	0.0592	10.3	-0.4	-1.0	5.0
0411	10/2/90	-0.10	0.018	-0.050	-0.01	0.06	-0.05	2.42	1.93	0.06	-0.001	-0.10	0.0490	-7.3	-0.2	1.8	7.5
0411	1/3/91	-0.10	0.029	-0.010	-0.01	0.06	-0.05	2.72	1.95	0.11	-0.001	-0.10	0.1131	10.6	-0.2	-1.0	7.0
0411	4/10/91	-0.10	0.029	-0.010	-0.01	0.05	-0.05	2.01	1.34	0.06	-0.001	-0.10	0.0549	13.0	-0.2	2.6	6.0
0411	7/16/91	-0.10	0.035	-0.010	-0.01	0.04	-0.05	2.37	1.89	-0.05	-0.001	-0.10	0.0400	8.2	-0.2	2.0	5.0
0411	10/14/91	0.23	0.062	-0.010	-0.01	0.06	-0.05	2.92	2.96	0.09	-0.001	-0.10	0.0590	-6.5	-0.2	-1.0	6.0
0411	1/14/92	-0.10	0.088	-0.010	-0.01	0.06	-0.05	2.96	2.73	0.09	0.002	-0.10	0.0390	10.1	-0.2	3.5	5.0
0411	4/7/92	-0.10	0.087	-0.010	-0.01	0.06	-0.05	3.95	3.50	0.05	-0.001	-0.10	0.0650	9.2	-0.2	2.8	4.9
0411	7/7/92	-0.10	0.044	-0.010	-0.01	0.08	-0.05	3.62	4.11	0.08	0.003	-0.10	0.0200	9.5	-0.2	-1.0	6.5
0411	10/6/92	0.20	0.022	-0.010	-0.01	0.09	-0.05	4.41	6.60	0.11	0.003	-0.10	0.1540	13.6	-0.2	-1.0	5.3
0411	1/6/93	-0.10	0.022	-0.010	-0.01	0.09	-0.05	4.65	5.38	0.14	0.004	-0.10	0.1290	12.6	-0.2	2.3	6.9
0411	4/6/93	-0.10	0.011	-0.010	-0.01	0.10	-0.05	5.50	6.41	0.13	-0.001	-0.10	0.2050	16.3	-0.2	-1.0	6.9
0411	7/16/93	0.14	0.017	-0.010	-0.01	0.12	-0.05	4.48	8.50	0.14	-0.001	-0.10	0.1270	8.3	-0.2	1.2	5.2
0411	10/6/93	-0.10	0.013	-0.010	-0.01	0.10	-0.05	4.00	8.38	0.13	-0.001	-0.10	0.1450	10.1	-0.2	2.2	4.0
0411	1/5/94	-0.10	0.011	-0.010	-0.01	0.08	-0.05	4.07	6.90	0.08	-0.001	-0.10	0.1820	9.4	-0.2	2.7	11.8
0411	4/14/94	-0.10	0.010	-0.010	-0.01	0.10	-0.05	4.07	7.96	0.10	-0.001	-0.10	0.1870	15.2	-0.2	3.7	19.3
0411	7/21/94	-0.10	0.008	-0.010	-0.01	0.13	-0.05	4.68	9.23	0.17	-0.001	-0.10	0.1860	17.6	-0.2	4.4	23.2
0411	10/5/94	-0.10	0.009	-0.010	-0.01	0.08	-0.05	4.42	6.59	0.13	0.004	-0.10	0.1560	19.8	-0.2	-1.0	26.5
0411	1/10/95	-0.10	0.009	-0.010	-0.01	0.13	-0.05	3.68	11.50	0.12	-0.001	-0.10	0.2460	15.3	-0.2	2.8	18.3
0411	4/11/95	-0.10	0.004	-0.010	-0.01	0.08	-0.05	4.38	8.74	0.08	-0.001	-0.10	0.2380	13.0	-0.2	-1.0	16.3
0411	7/11/95	-0.10	0.012	-0.010	-0.01	0.01	-0.05	3.48	9.60	0.08	-0.001	-0.10	0.2150	7.6	-0.2	-1.0	10.7
0411	10/3/95	-0.10	0.014	-0.01	-0.01	0.09	-0.05	-0.01	9.91	-0.05	0.002	-0.10	0.2669	-9.4	-0.2	1.5	14.7
0411	1/4/96	-0.10	0.006	-0.01	-0.01	0.09	-0.05	3.18	10.60	0.07	-0.001	-0.10	0.2870	9.6	-0.2	2.6	5.7
0411	4/2/96	-0.10	0.014	-0.01	-0.01	0.08	-0.05	3.80	8.80	0.07	-0.001	-0.10	0.3060	7.6	-0.2	-1.0	4.8
0411	7/17/96	-0.10	0.007	-0.01	-0.01	0.09	-0.05	3.39	10.00	0.06	-0.001	-0.10	0.2810	9.7	-0.2	-1.0	8.2

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0420	7/23/89	6882.0	6.3	6.52	2,239	438	110	99.0	5.8	285	1,293	16.5	0.56	60.00	-0.00100	-0.0010	-0.005
0420	10/11/89	6879.7	6.4	6.84	2,328	402	112	96.8	8.5	244	1,594	18.7	0.77	4.80	-0.00100	-0.0010	-0.005
0420	1/3/90	6878.3	5.9	6.20	2,680	431	141	100	7.1	196	1,602	19.1	1.43	2.10	-0.00100	-0.0010	-0.005
0420	4/3/90	6876.8	5.9	6.40	2,725	439	149	97.0	7.1	209	1,532	18.4	1.29	0.15	-0.00100	-0.0010	-0.005
0420	7/2/90	6875.7	6.0	6.56	2,708	464	140	91.7	6.2	226	1,577	18.7	0.77	0.87	-0.00100	-0.0010	-0.005
0420	10/2/90	6874.6	6.1	6.57	2,777	412	151	91.5	7.1	198	1,771	18.8	0.66	-0.01	-0.00100	-0.0010	-0.005
0420	1/3/91	6874.0	6.2	7.30	2,729	478	135	105	27.0	248	1,574	18.0	0.82	6.80	-0.00100	-0.0010	-0.005
0420	4/10/91	6874.0	6.0	6.99	2,635	483	143	102	7.9	269	1,480	19.1	0.54	5.70	-0.00100	-0.0010	-0.005
0420	7/16/91	6872.4	5.9	6.43	2,840	492	114	87.3	6.9	205	1,888	17.5	1.10	0.11	-0.00100	-0.0010	-0.005
0420	10/14/91	6866.7	5.9	7.01	2,982	593	133	94.1	6.1	217	1,819	21.6	1.20	0.07	-0.00100	-0.0010	-0.005
0420	1/14/92	6868.5	5.9	8.17	2,806	426	148	93.1	6.4	243	1,831	17.8	1.30	2.00	-0.00100	-0.0010	-0.005
0420	4/7/92	6868.7	5.8	7.89	2,962	453	164	99.2	8.3	265	1,890	16.2	1.40	-0.10	-0.00100	-0.0010	-0.005
0420	7/7/92	6862.8	5.7	7.71	3,097	494	202	98.9	8.6	244	1,750	18.3	1.78	0.20	-0.00100	-0.0010	-0.005
0420	10/6/92	6861.9	6.0	6.83	3,098	537	180	100	7.8	114	1,991	23.2	1.20	-0.10	-0.00100	-0.0010	-0.005
0420	1/6/93	6864.3	5.9	6.58	2,512	455	152	86.0	6.7	119	1,675	19.3	1.29	-0.10	-0.00100	-0.0010	-0.005
0420	4/6/93	6864.6	6.0	6.83	2,505	413	118	111	5.4	222	1,658	24.4	0.42	1.90	-0.00100	-0.0010	-0 005
0420	7/13/93	6859.6	6.0	6.26	2,704	435	169	100	7.2	143	1,818	21.1	0.83	0.70	-0.00100	-0.0010	-0.005
0420	10/6/93	6858.4	6.0	5.81	2,947	497	165	95.4	6.6	85	2,062	20.6	0.87	0.80	-0.00100	-0.0010	-0.005
0420	1/5/94	6859.8	6.2	6.45	2,915	475	145	97.7	6.3	181	1,855	21.1	0.66	2.58	-0.00100		
0420	4/13/94	6859.7	6.2	6.22	2,930	504	167	92.6	6.5	91	2,024	22.6	1.66	0.76	-0.00100		
0420	7/20/94	6857.1	6.1	6.28	3,540	602	192	102	7.2	89	2,338	22.6	1.28	-0.10	-0.00100		
0420	10/4/94	6857.4	6.0	7.18	3,297	593	186	111	7.6	133	2,245	25.3	1.19	2.26	-0.00100		
0420	1/4/95	6856.9	6.0	6.70	3,434	593	188	105	7.6	116	2,204	25.3	1.48	1.13	-0.00100		
0420	4/4/95	6856.5	6.1	6.36	3,395	579	179	107	7.1	145	2,237	31.0	1.09	2.09	-0.00100		
0420	7/7/95	6855.1	6.2	7.57	3,074	530	135	108	6.5	207	1,882	25.7	0.46	6.35	-0.00100		
0420	10/3/95	6854.3	6.4	7.61	3,117	544	142	118	6.5	305	1,821	28.0	0.24	7.17	-0.00100		
0420	1/3/96	6853.7	6.7	7.14	3,084	545	162	115	6.1	322	1,856	26.4	-0.05	8.66	-0.00100		
0420	4/2/96	6852.9	6.9	7.85	3,165	588	140	122	6.2	344	1,890	30.2	0.1	18.4	-0.00100		
0420	7/7/96	6852.2	6.7	7.40	3,225	586	134	127	6.6	332	1,816	30.2	0.24	16.7	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0420	7/23/89	-0.10	0.012	-0.050	-0.01	-0.01	-0.05	1.40	9.10	-0.05	0.001	-0.10	0.0293	9.1	-0.2	1.6	6.8
0420	10/11/89	0.16	0.029	-0.050	-0.01	-0.01	-0.05	1.60	8.10	-0.05	0.002	-0.10	0.0220	7.8	-0.2	1.9	3.5
0420	1/3/90	-0.10	0.055	-0.050	-0.01	-0.01	-0.05	2.20	6.00	-0.05	-0.001	-0.10	0.0070	10.6	-0.2	3.3	6.8
0420	4/3/90	-0.10	0.058	-0.050	-0.01	-0.01	-0.05	3.00	4.80	-0.05	-0.001	-0.10	0.0040	6.8	-0.2	1.9	3.6
0420	7/2/90	-0.10	0.024	-0.050	-0.01	0.02	-0.05	2.57	6.00	-0.05	-0.001	-0.10	0.0087	5.3	-0.2	1.5	3.0
0420	10/2/90	-0.10	0.034	-0.050	-0.01	-0.01	-0.05	3.39	4.20	-0.05	-0.001	-0.10	0.0030	6.3	-0.2	-1.0	5.0
0420	1/3/91	-0.10	0.024	-0.010	0.01	-0.01	-0.05	2.16	4.90	-0.05	-0.001	-0.10	0.0162	5.0	-0.2	-1.0	3.0
0420	4/10/91	-0.10	0.027	-0.010	-0.01	0.01	-0.05	2.51	5.34	-0.05	-0.001	-0.10	0.0127	8.1	-0.2	1.1	3.0
0420	7/16/91	-0.10	0.040	-0.010	-0.01	-0.01	-0.05	3.25	3.54	-0.05	-0.001	-0.10	0.0030	8.4	-0.2	2.2	5.0
0420	10/14/91	-0.10	0.066	-0.010	-0.01	-0.01	-0.05	4.05	2.42	-0.05	-0.001	-0.10	0.0720	7.0	-0.2	-1.0	6.0
0420	1/14/92	-0.10	0.053	-0.010	-0.01	-0.01	-0.05	3.42	2.45	-0.05	-0.001	-0.10	0.0070	5.0	0.8	1.3	2.0
0420	4/7/92	-0.10	0.032	-0.010	-0.01	-0.01	-0.05	4.98	1.76	-0.05	-0.001	-0.10	0.0260	12.4	-0.2	-1.0	2.7
0420	7/7/92	0.13	0.036	-0.010	-0.01	-0.01	-0.05	4.25	2.35	-0.05	0.001	-0.10	0.0200	8.5	-0.2	-1.0	3.9
0420	10/6/92	0.30	0.111	-0.010	-0.01	-0.01	-0.05	4.25	1.60	-0.05	0.002	-0.10	-0.0003	15.5	-0.2	-1.0	4.7
0420	1/6/93	-0.10	0.104	-0.010	-0.01	-0.01	-0.05	4.17	1.38	-0.05	0.004	-0.10	0.0270	-11.7	-0.2	-1.0	10.9
0420	4/6/93	-0.10	0.044	-0.010	-0.01	-0.01	-0.05	2.52	2.30	-0.05	0.001	-0.10	0.0240	4.8	-0.2	-1.0	2.9
0420	7/13/93	-0.10	0.100	-0.010	-0.01	0.02	-0.05	4.03	1.81	-0.05	-0.001	-0.10	0.0030	12.2	-0.2	3.0	5.7
0420	10/6/93	0.10	0.064	-0.010	-0.01	0.02	-0.05	3.94	1.88	0.07	-0.001	-0.10	0.0050	10.7	-0.2	1.2	6.0
0420	1/5/94	0.11	0.061	-0.010	-0.01	-0.01	-0.05	3.06	1.44	-0.05	-0.001	-0.10	0.0080	6.0	-0.2	1.4	7.9
0420	4/13/94	-0.10	0.020	-0.010	-0.01	-0.01	-0.05	4.07	1.17	-0.05	-0.001	-0.10	0.0020	11.8	-0.2	-1.0	15.4
0420	7/20/94	0.10	0.012	-0.010	-0.01	0.01	-0.05	5.00	1.03	-0.05	-0.001	-0.10	0.0060	19.4	-0.2	-1.0	23.9
0420	10/4/94	-0.10	0.006	-0.010	-0.01	-0.01	-0.05	5.56	1.20	-0.05	-0.001	-0.10	0.0110	7.4	-0.2	-1.0	8.3
0420	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.42	1.43	-0.05	-0.001	-0.10	0.0040	8.1	-0.2	-1.0	9.6
0420	4/4/95	-0.10	0.007	-0.010	-0.01	0.02	-0.05	3.45	1.21	-0.05	-0.001	-0.10	0.0080	9.5	-0.2	-1.0	12.1
0420	7/7/95	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	-0.001	-0.10	0.0205	8.9	-0.2	-1.0	7.5
0420	10/3/95	-0.10	0.005	-0.01	-0.01	-0.01	-0.05	2.08	0.76	-0.05	-0.001	-0.10	0.0363	7.9	0.6	-1.0	5.7
0420	1/3/96	-0.10	0.001	-0.01	-0.01	-0.01	-0.05	1.88	0.64	-0.05	0.001	-0.10	0.0392	-3.7	0.8	1.6	3.7
0420	4/2/96	-0.10	0.003	-0.01	-0.01	-0.01	-0.05	1.9	0.54	-0.05	-0.001	-0.10	0.1000	4.7	-0.2	-1.0	3.2
0420	7/7/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.98	0.59	-0.05	-0.001	-0.10	0.0510	10.2	-0.2	3.1	2.1

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	. NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0501 B*	7/20/89	6889.0	3.1	3.13	5,722	443	492	106	17.5	0.0	4,074	24.2	1.36	0.21	-0.00100	-0.0010	-0.005
0501 B*	10/8/89	6887.9	3.2	3.29	5,594	454	540	110	20.2	0.0	3,758	36.2	1.06	0.20	-0.00100	-0.0010	-0.005
0501 B*	1/10/90	6885.3	3.7	2.98	5,622	449	529	115	14.9	0.0	3,570	26.6	1.01	0.42	-0.00100	-0.0010	-0.005
0501 B*	4/10/90	6884.6	4.4	2.86	5,716	447	576	110	14.3	0.0	3,592	30.0	1.02	0.23	-0.00100	-0.0010	-0.005
0501 B*	7/10/90	6883.3	4.5	3.01	5,738	511	578	111	15.5	0.0	3,756	25.6	0.48	0.26	-0.00100	-0.0010	-0.005
0501 B*	10/9/90	6882.3	4.2	4.25	5,845	403	511	120	16.7	0.0	3,678	57.3	0.39	0.05	-0.00100	-0.0010	-0.005
0501 B*	1/11/91	6881.4	3.8	3.45	5,791	484	592	105	16.0	0.0	3,862	28.2	0.84	-0.01	-0.00100	-0.0010	-0.005
0501 B*	4/10/91	6880.7	3.6	3.62	5,924	483	591	89.1	18.2	0.0	3,834	27.1	0.99	-0.01	-0.00100	-0.0010	-0.005
0501 B*	7/9/91	6879.9	3.7	3.43	6,105	412	512	94.7	15.4	0.0	3,937	28.7	1.27	-0.01	-0.00100	-0.0010	-0.005
0501 B*	10/17/91	6879.4	3.6	3.81	6,099	476	483	117	17.9	0.0	3,822	37.9	1.30	-0.01	-0.00100	-0.0010	-0.005
0501 B*	1/21/92	6878.8	3.4	4.02	6,099	420	555	101	15.7	0.0	4,151	24.5	-0.05	-0.01	-0.00100	-0.0010	-0.005
0501 B*	4/14/92	6878.4	3.3	3.62	6,113	417	472	100	17.8	0.0	3,824	28.0	1.17	-0.10	-0.00100	-0.0010	-0.005
0501 B*	7/14/92	6877.9	3.2	2.99	6,203	362	539	129	21.4	0.0	4,209	28.6	0.52	-0.10	-0.00100	-0.0010	-0.005
0501 B*	10/13/92	6877.5	3.6	3.33	5,832	455	563	113	19.4	0.0	3,601	27.9	0.97	-0.10	-0.00100	-0.0010	-0.005
0501 B*	1/21/93	6877.1	3.5	3.11	6,118	408	544	101	16.5	0.0	4,100	21.4	0.98	-0.10	-0.00100	-0.0010	-0.005
0501 B*	4/14/93	6876.9	3.4	3.01	5,140	439	532	108	13.7	0.0	3,936	29.7	0.99	-0.10	-0.00100	-0.0010	-0.005
0501 B*	7/15/93	6876.2	3.5	3.02	4,976	492	544	105	15.8	0.0	3,778	28.0	0.85	-0.10	-0.00100	0.0012	-0.005

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0501 B*	7/20/89	100.00	0.244	0.130	-0.01	1.10	0.08	12.00	0.11	1.80	-0.001	-0.10	0.6100	33.1	5.4	-1.0	96.3
0501 B*	10/8/89	70.00	0.046	0.090	-0.01	0.83	0.07	11.00	0.03	1.20	-0.001	-0.10	0.4690	22.4	15.0	-1.0	34.7
0501 B*	1/10/90	29.00	0.030	-0.050	-0.01	0.59	-0.05	9.80	-0.10	0.80	-0.001	-0.10	0.2120	16.4	-0.2	-1.0	11.2
0501 B*	4/10/90	22.00	0.026	-0.050	-0.01	0.64	-0.05	12.00	-0.10	0.73	-0.001	-0.10	0.1250	17.2	-0.2	-1.0	10.4
0501 B*	7/10/90	22.90	0.014	-0.050	-0.01	0.41	-0.05	12.21	-0.10	0.74	-0.001	-0.10	0.1610	16.6	-0.2	-1.0	10.0
0501 B*	10/9/90	25.80	0.029	0.050	-0.01	0.68	-0.05	13.50	-0.10	0.88	-0.001	-0.10	0.2099	22.8	-0.2	1.4	14.0
0501 B*	1/11/91	24.70	0.020	0.050	-0.01	0.68	-0.05	12.40	-0.10	0.83	-0.001	-0.10	0.2768	25.9	-0.2	1.5	13.4
0501 B*	4/10/91	25.62	0.030	-0.010	-0.01	0.60	-0.05	8.12	-0.10	0.69	-0.001	-0.10	0.3332	22.5	2.6	5.9	17.7
0501 B*	7/9/91	40.84	0.016	0.060	-0.01	0.70	-0.05	12.21	-0.10	0.86	-0.001	-0.10	0.4356	18.2	-0.2	-1.0	9.0
0501 B*	10/17/91	52.00	0.022	0.090	0.01	0.80	-0.05	15.24	-0.10	1.14	-0 001	-0.10	0.5918	15.5	-0.2	2.4	10.0
0501 B*	1/21/92	53.20	0.073	-0.010	0.02	0.86	0.05	13.90	-0.10	1.15	0.002	-0.10	0.4340	31.0	-0.2	1.3	19.0
0501 B*	4/14/92	37.10	0.021	0.080	-0.01	0.82	-0.05	13.90	-0.10	0.95	-0.001	-0.10	0.3790	22.1	-0.2	1.6	9.2
0501 B*	7/14/92	35.60	0.013	0.063	-0.01	0.98	-0.05	13.10	-0.10	1.07	-0.001	-0.10	0.5390	15.6	-0.2	-1.0	10.2
0501 B*	10/13/92	36.10	0.025	-0.010	0.02	0.77	-0.05	13.60	-0.10	0.85	-0.001	-0.10	0.5290	27.9	-0.2	3.3	15.9
0501 B*	1/21/93	39.20	0.021	-0.010	-0.01	0.63	-0.05	12.50	-0.10	1.01	-0.001	-0.10	0.2250	13.9	-0.2	2.6	9.0
0501 B*	4/14/93	42.00	0.040	0.080	-0.01	0.99	-0.05	13.60	-0.10	1.14	-0.001	-0.10	0.4210	18.3	-0.2	1.7	7.8
0501 B*	7/15/93	40.40	0.018	0.051	-0.01	0.71	-0.05	11.60	-0.10	0.75	-0.001	-0.10	0.1800	12.0	-0.2	-1.0	7.5

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0502 B	7/23/89	6892.4	5.3	5.64	5,131	559	501	186	13.7	63.0	3,298	51.0	2.94	30.00	-0.00100	-0.0010	-0.005
0502 B	10/11/89	6888.1	5.1	5.66	5,192	513	483	184	18.7	50.8	3,563	55.3	1.26	38.00	-0.00100	-0.0010	-0.005
0502 B	1/3/90	6885.7	4.9	5.38	5,364	501	495	184	16.1	33.9	3,347	52.0	2.80	39.00	-0.00100	-0.0010	-0.005
0502 B	4/3/90	6883.9	4.7	5.28	5,400	491	500	180	15.5	28.7	3,296	55.8	2.17	39.00	-0.00100	-0.0010	-0.005
0502 B	7/2/90	6882.7	4.4	4.53	5,536	575	542	162	15.9	1.4	3,487	54.5	2.38	31.60	-0.00100	-0.0010	-0.005
0502 B	10/2/90	6881.4	4.7	5.22	5,143	435	453	159	15.4	12.2	3,377	51.4	0.80	10.50	-0.00100	-0.0010	-0.005
0502 B	1/4/91	6880.6	4.8	4.50	5,193	457	469	165	23.7	0.0	3,214	53.0	3.54	12.40	-0.00100	-0.0010	-0.005
0502 B	4/9/91	6880.0	4.4	4.57	5,227	527	508	158	20.0	5.0	3,410	36.3	4.00	14.00	-0.00100	-0.0010	-0.005
0502 B	7/16/91	6879.2	4.3	4.72	5,129	520	526	138	25.8	5.0	3,760	54.4	5 63	12.60	-0.00100	-0.0010	-0.005
0502 B	10/14/91	6878.1	4.1	3.88	5,164	384	349	139	20.7	0.0	3,233	61.3	6.80	10.20	-0.00100	-0.0010	-0.005
0502 B	1/14/92	6876.7	3.7	4.03	4,850	420	382	110	15.3	0.0	3,470	114.0	6.30	2.40	-0.00100	-0.0010	-0 005
0502 B	4/7/92	6875.7	3.7	3.44	5,134	439	388	111	16.6	0.0	3,407	41.7	12.20	-0.10	-0.00100	-0.0010	-0.005
0502 B	7/7/92	6874.5	3.6	3.67	5,229	513	461	97	16.4	0.0	3,424	20.4	9.10	-0.10	-0.00100	-0.0010	-0.005
0502 B	10/6/92	6873.1	3.8	3.18	5,350	488	440	101	16.8	0.0	3,695	24.4	6.30	0.24	-0.00100	-0.0010	-0.005
0502 B	1/6/93	6870.1	3.7	3.41	4,292	421	394	92	20.3	0.0	3,594	16.8	6.70	-0.10	-0.00100	-0.0010	-0.005
0502 B	4/6/93	6870.2	3.7	3.24	4,837	409	367	111	19.0	0.0	3,579	43.0	7.20	-0.10	-0.00100	-0.0010	-0.005
0502 B	7/13/93	6869.3	4.1	4.11	4,892	464	456	119	19.9	0.0	3,741	51.1	6.97	-0.10	-0.00100	-0.0010	-0.005
0502 B	10/6/93	6865.4	4.2	3.94	4,832	450	432	121	16.1	0.0	3,706	35.9	6.69	8.10	-0.00100	-0.0010	-0.005
0502 B	1/5/94	6867.2	4.1	2.89	5,012	475	435	128	14.6	0.0	3,674	45.0	6.63	18.20	-0.00100		
0502 B	4/13/94	6867.2	4.2	3.45	5,054	486	432	127	14.3	0.0	3,656	37.4	10.20	-0.10	-0.00100		
0502 B	7/21/94	6867.2	4.3	3.59	5,603	552	501	116	14.2	0.0	4,100	29.0	6.23	-0.10	-0.00100		
0502 B	10/5/94	6867.2	4.3	4.23	5,017	470	489	129	14.0	0.0	3,739	29.4	5.86	-0.10	-0.00100		
0502 B	1/5/95	6866.5	4.1	4.27	5,078	457	488	125	14.4	0.0	3,652	33.3	7.90	-0.10	-0.00100		
0502 B	4/5/95	6866.4	4.2	3.89	5,106	484	494	122	13.6	0.0	3,860	24.2	6.40	-0.10	-0.00100		
0502 B	7/6/95	6866.1	4.4	4.18	5,090	455	478	118	13.1	0.0	3,615	31.0	6.46	-0.10	-0.00100		
0502 B	10/4/95	6866.1	4.5	4.42	4,852	445	470	123	12.8	0.0	3,555	29.0	5.39	0.3	-0.00100		
0502 B	1/4/96	6866.1	4.2	3.82	5,022	470	485	122	13.3	0.0	3,710	29.3	3.16	-0.1	-0.00100		
0502 B	4/2/96	6865.7	4.8	4.47	5,428	478	525	119	13.5	0.0	3,810	31.2	3.62	-0.1	-0.00100		
0502 B	7/7/96	6865.4	4.5	3.40	5,317	460	475	120	14.2	0.0	3,550	34.0	3.83	0.11	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0502 B	7/23/89	2.20	0.001	-0.050	-0.01	0.26	-0.05	6.90	9.30	0.24	0.003	-0.10	0.0543	17.2	-0.2	2.3	30.5
0502 B	10/11/89	2.20	0.009	-0.050	-0.01	0.19	-0.05	5.70	23.00	0.21	0.010	-0.10	0.0640	9.8	18.1	4.1	23.0
0502 B	1/3/90	16.00	0.009	-0.050	-0.01	0.21	-0.05	5.80	22.00	0.27	0.003	-0.10	0.1130	13.6	-0.2	6.7	9.3
0502 B	4/3/90	8.50	0.012	-0.050	-0.01	0.27	-0.05	7.00	19.00	0.32	0.004	-0.10	0.0640	15.8	-0.2	2.8	9.4
0502 B	7/2/90	22.70	0.027	-0.050	-0.01	0.28	-0.05	8.90	9.10	0.33	0.003	-0.10	0.2040	27.4	-0.2	7.9	15.0
0502 B	10/2/90	2.40	0.014	-0.050	-0.01	0.39	-0.05	9.00	5.20	0.38	0.002	-0.10	0.0540	16.0	-0.2	-1.0	15.0
0502 B	1/4/91	22.40	0.024	0.030	-0.01	0.52	-0.05	11.10	2.10	0.55	0.002	-0.10	0.2080	30.0	-0.2	-1.0	18.0
0502 B	4/9/91	15.70	0.003	-0.050	-0.01	0.40	-0.05	8.51	0.68	0.44	0.001	-0.10	0.2058	26.2	-0.2	-1.0	12.0
0502 B	7/16/91	1.00	0.009	-0.010	-0.01	0.59	-0.05	12.56	0.85	0.66	-0.001	-0.10	0.3230	23.5	-0.2	2.9	13.0
0502 B	10/14/91	54.20	0.004	0.012	-0.01	0.68	-0.05	13.60	1.01	0.78	0.001	-0.10	0.2800	29.8	-0.2	-1.0	18.0
0502 B	1/14/92	74.70	0.023	0.130	-0.01	0.67	-0.05	14.60	2.41	0.84	0.004	-0.10	0.3440	4.5	-0.2	-1.0	3.0
0502 B	4/7/92	89.50	0.040	0.140	-0.01	0.71	-0.05	17.70	2.30	0.74	-0.001	-0.10	0.5670	30.7	-0.2	2.0	12.7
0502 B	7/7/92	92.20	0.068	0.120	-0.01	0.75	-0.05	15.10	1.17	0.72	0.001	-0.10	0.4300	24.0	-0.2	-1.0	8.4
0502 B	10/6/92	68.70	0.036	0.130	0.01	0.79	-0.05	14.30	1.00	0.89	0.004	-0.10	0.5520	26.5	-0.2	-1.0	10.4
0502 B	1/6/93	96.90	0.036	0.130	0.02	0.77	-0.05	16.00	0.60	1.02	-0.001	-0.10	0.7150	38.7	-0.2	-1.0	19.9
0502 B	4/6/93	101.00	0.696	0.140	-0.01	0.76	-0.05	15.23	1.15	0.05	0.003	-0.10	0.8120	34.8	-0.2	3.3	11.5
0502 B	7/13/93	87.00	0.018	-0.005	-0.01	0.97	-0.05	14.20	0.74	1.09	-0.001	-0.10	0.4780	17.0	-0.2	-1.0	8.5
0502 B	10/6/93	57.80	0.004	0.090	-0.01	0.74	-0.05	12.40	0.51	0.93	-0.001	-0.10	0.1770	21.8	-0.2	2.0	9.0
0502 B	1/5/94	57.10	0.007	0.080	-0.01	0.85	-0.05	12.60	0.41	0.78	-0.001	-0.10	0.3470	16.2	-0.2	1.1	20.4
0502 B	4/13/94	54.50	0.005	0.050	-0.01	0.70	-0.05	10.50	0.41	0.79	-0.001	-0.10	0.3320	14.4	-0.2	3.8	18.3
0502 B	7/21/94	44.20	0.003	0.040	-0.01	0.82	-0.05	12.00	0.35	0.97	-0.001	-0.10	0.2050	19.2	-0.2	4.4	24.3
0502 B	10/5/94	26.70	0.004	0.030	-0.01	0.64	-0.05	9.18	0.28	0.70	-0.001	-0.10	0.1880	13.3	-0.2	1.2	16.6
0502 B	1/5/95	32.30	-0.001	0.040	-0.01	0.72	-0.05	10.50	0.20	0.85	-0.001	-0.10	0.2110	16.9	-0.2	-1.0	19.2
0502 B	4/5/95	27.20	0.003	0.030	-0.01	0.81	-0.05	11.10	0.19	0.74	-0.001	-0.10	0.1910	17.0	-0.2	2.0	21.3
0502 B	7/6/95	16.90	0.005	0.020	-0.01	0.69	-0.05	9.65	0.19	0.77	-0.001	-0.10	0.1321	14.5	-0.2	2.0	24.0
0502 B	10/4/95	13.30	0.001	0.020	-0.01	0.66	-0.05	9.20	0.15	0.73	-0.001	-0.10	0.1290	23.6	-0.2	-1.0	16.6
0502 B	1/4/96	16.10	0.002	0.020	-0.01	0.66	-0.05	10.30	0.12	0.72	-0.001	-0.10	0.1340	21.7	-0.2	2.7	11.6
0502 B	4/2/96	12.10	0.001	0.020	-0.01	0.63	-0.05	9.06	0.11	0.66	-0.001	-0.10	0.1540	19.6	2.1	-1.0	11.2
0502 B	7/7/96	16.90	0.002	-0.010	-0.01	0.68	-0.05	10.30	0.13	0.74	-0.001	-0.10	0.1480	30.6	0.6	5.3	16.2

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250.0	NA	30.0	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160		NA	NA	NA	NA	NA
0504 B	7/23/89	6868.1	6.2	6.50	4,631	515	440	172	10.5	293	3,027	37.9	0.49	0.05	-0.00100	-0.0010	-0.005
0504 B	10/11/89	6867.3	5.9	6.68	4,674	491	384	150	13.8	271	2,947	39.0	0.58	0.23	-0.00100	-0.0010	-0.005
0504 B	1/3/90	6865.9	5.7	6.36	4,458	597	373	146	11.0	217	2,793	35.9	0.70	0.05	-0.00100	-0.0010	-0.005
0504 B	4/3/90	6864.6	6.0	6.30	4,622	503	407	144	10.8	203	2,751	36.9	0.79	0.08	-0.00100	-0.0010	-0.005
0504 B	7/2/90	6863.5	5.6	6.32	4,598	554	424	143	10.6	229	2,931	33.2	0.36	0.06	-0.00100	-0.0010	-0.005
0504 B	10/2/90	6862.7	5.8	6.71	4,631	469	456	146	10.5	198	3,067	33.7	0.39	0.02	-0.00100	-0.0010	-0.005
0504 B	1/3/91	6862.7	5.7	6.25	4,687	534	446	140	31.6	166	3,022	32.5	0.86	0.08	-0.00100	-0.0010	-0.005
0504 B	4/9/91	6861.7	5.6	6.51	4,678	531	437	134	13.5	159	2,979	30.9	0.74	0.07	-0.00100	-0.0010	-0.005
0504 B	7/16/91	6860.7	5.6	6.30	4,769	535	392	132	10.8	161	3,427	33.1	0.91	0.10	-0.00100	-0.0010	-0.005
0504 B	10/14/91	6857.3	5.8	6.62	4,495	456	269	131	8.3	245	2,640	39.2	0.44	0.03	-0.00100	-0.0010	-0.005
0504 B	1/14/92	6855.4	5.4	6.06	5,014	502	378	161	10.8	121	3,119	40.3	3.10	-0.01	-0.00100	-0.0010	-0.005
0504 B	4/7/92	6855.9	5.4	6.21	5,112	500	473	162	13.1	207	3,372	31.4	0.92	-0.10	-0.00100	-0.0010	-0.005
0504 B	7/7/92	6855.8	5.1	7.63	5,218	578	463	194	14.1	50.9	3,248	41.0	0.63	-0.10	-0.00100	-0.0010	-0.005
0504 B	10/6/92	6851.7	5.4	5.85	5,061	593	430	185	13.9	63.4	3,278	37.3	0.84	-0.10	-0.00100	-0.0010	-0.005
0504 B	1/21/93	6849.9	5.4	5.90	4,440	525	378	159	14.3	38.1	3,194	43.2	0.93	-0.10	-0.00100	-0.0010	-0.005
0504 B	4/14/93	6849.9	5.6	6.50	4,825	519	494	171	10.4	82.8	3,373	37.6	0.76	-0.10	-0.00100	-0.0010	-0.005
0504 B	7/15/93	6848.4	5.6	4.91	4,859	540	464	160	14.8	13.2	3,430	41.2	0.93	-0.10	-0.00100	-0.0010	-0.005
0504 B	10/6/93	6844.7	5.7	5.67	4,372	543	385	155	11.0	27.6	3,129	33.5	0.60	0.20	-0.00100	-0.0010	-0.005
0504 B	1/5/94	6847.0	5.7	6.01	5,244	578	450	145	10.6	58.5	3,491	38.7	0.80	-0.10	-0.00100		
0504 B	4/13/94	6846.5	5.8	6.01	5,083	580	433	138	10.6	47.9	3,448	37.9	1.82	-0.10	-0.00100		
0504 B	7/21/94	6846.3	5.9	6.25	4,998	600	452	135	11.1	62.8	3,467	32.3	0.91	-0.10	-0.00100		
0504 B	10/5/94	6846.3	5.8	6.56	5,208	604	489	176	12.5	68.3	3,421	35.5	1.40	-0.10	-0.00100		
0504 B	1/5/95	6844.8	5.8	6.41	4,827	570	406	152	12.2	117	3,232	35.8	1.38	-0.10	-0.00100		
0504 B	4/5/95	6845.0	5.8	7.46	5,199	527	487	145	11.3	35.4	3,710	37.1	1.49	-0.10	-0.00100		
0504 B	7/6/95	6845.1	6.3	6.51	4,787	515	470	145	11.7	58.7	3,298	33.5	1.64	-0.10	-0.00100		
0504 B	10/4/95	6844.1	6.0	6.70	4,530	490	450	151	11.6	71.1	3,315	33	1.36	0.23	-0.00100		
0504 B	1/4/96	6843.3	6.2	6.44	4,519	530	455	156	11.3	92.0	3,116	32	0.66	1.68	-0.00100		
0504 B	4/2/96	6843.1	7.0	6.82	5,270	530	515	59.4	13.1	61.5	3,630	37.5	0 74	-0.1	-0.00100		
0504 B	7/7/96	6842.7	6.0	6.22	5,316	515	475	153	13.4	44.0	3,440	39.2	0.67	-0.1	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0504 B	7/23/89	0.25	0.113	-0.050	-0.01	0.14	-0.05	2.50	24.00	0.24	0.001	-0.10	0.1000	32.4	-0.2	-1.0	66.1
0504 B	10/11/89	0.20	0.054	-0.050	0.09	0.26	-0.05	3.10	9.90	0.37	-0.001	-0.10	0.1220	23.3	11.1	2.7	27.5
0504 B	1/3/90	0.22	0.025	-0.050	-0.01	0.16	-0.05	2.30	4.20	0.25	0.001	-0.10	0.2860	28.2	1.6	5.7	18.1
0504 B	4/3/90	-0.10	0.017	-0.050	-0.01	0.30	-0.05	4.10	7.80	0.52	0.001	-0.10	0.1010	29.2	-0.2	1.6	12.5
0504 B	7/2/90	-0.10	0.023	-0.050	-0.01	0.28	-0.05	3.80	8.32	0.45	0.001	-0.10	0.1468	36.2	-0.2	3.3	20.0
0504 B	10/2/90	-0.10	0.021	-0.050	-0.01	0.34	-0.05	3.60	13.30	0.46	-0.001	-0.10	0.1300	31.2	-0.2	-1.0	20.0
0504 B	1/3/91	-0.10	0.002	-0.010	0.01	0.49	-0.05	4.85	3.60	0.60	0.001	-0.10	0.3797	38.9	-0.2	-1.0	25.0
0504 B	4/9/91	-0.10	0.001	-0.050	-0.01	0.35	-0.05	4.39	2.83	0.49	-0.001	-0.10	0.1470	40.9	-0.2	-1.0	25.0
0504 B	7/16/91	-0.10	-0.001	-0.010	-0.01	0.43	-0.05	4.47	2.70	0.54	-0.001	-0.10	0.2790	28.0	-0.2	3.2	16.0
0504 B	10/14/91	-0.10	0.573	-0.010	-0.01	0.22	-0.05	2.96	69.90	0.30	-0.001	-0.10	0.1400	9.0	-0.2	-1.0	7.0
0504 B	1/14/92	-0.10	0.340	-0.010	-0.01	0.50	-0.05	5.08	43.40	0.67	-0.001	-0.10	0.0290	22.2	-0.2	-1.0	16.0
0504 B	4/7/92	-0.10	0.035	-0.010	-0.01	0.53	-0.05	7.10	9.60	0.63	0.002	-0.10	0.1240	20.1	-0.2	-1.0	7.6
0504 B	7/7/92	-0.10	0.388	-0.010	-0.01	0.70	-0.05	6.66	56.40	0.88	0.001	-0.10	0.0200	13.0	-0.2	-1.0	8.5
0504 B	10/6/92	1.10	0.257	-0.010	-0.01	0.66	-0.05	6.88	49.80	0.91	0.002	-0.10	0.0420	20.4	-0.2	-1.0	12.5
0504 B	1/21/93	1.30	0.181	-0.010	-0.01	0.57	-0.05	7.05	45.40	0.90	-0.001	-0.10	0.0330	13.3	-0.2	4.7	10.0
0504 B	4/14/93	0.10	0.042	-0.010	-0.01	-0.01	-0.05	5.94	12.70	0.67	-0.001	-0.10	0.1760	20.8	-0.2	-1.0	10.5
0504 B	7/15/93	1.17	0.139	-0.010	-0.01	1.00	-0.05	6.68	12.40	1.27	0.002	-0.10	0.0640	17.0	-0.2	-1.0	9.9
0504 B	10/6/93	0.17	0.170	-0.010	-0.01	0.52	-0.05	4.94	7.00	0.70	-0.001	-0.10	0.0510	21.5	-0.2	-1.0	15.0
0504 B	1/5/94	-0.10	0.041	-0.010	-0.01	0.46	-0.05	6.00	3.40	0.54	-0.001	-0.10	0.0850	37.1	-0.2	-1.0	46.1
0504 B	4/13/94	-0.10	0.019	-0.010	-0.01	0.52	-0.05	6.09	4.97	0.73	-0.001	-0.10	0.0590	31.1	-0.2	2.6	29.0
0504 B	7/21/94	0.15	0.012	-0.010	-0.01	0.45	-0.05	5.80	1.03	0.80	-0.001	-0.10	0.0840	41.6	-0.2	2.5	53.4
0504 B	10/5/94	-0.10	0.010	-0.010	-0.01	0.36	-0.05	5.14	5.36	0.54	-0.001	-0.10	0.0810	28.3	-0.2	2.0	35.4
0504 B	1/5/95	-0.10	0.009	-0.010	-0.01	0.37	-0.05	4.62	0.85	0.51	-0.001	-0.10	0.1230	39.7	-0.2	-1.0	49.0
0504 B	4/5/95	-0.10	0.011	-0.010	-0.01	0.54	-0.05	6.20	2.67	0.56	-0.001	-0.10	0.0730	31.6	-0.2	-1.0	39.2
0504 B	7/6/95	-0.10	0.010	-0.010	-0.01	0.47	-0.05	5.63	2.11	0.58	-0.001	-0.10	0.0792	27.0	-0.2	1.3	51.9
0504 B	10/4/95	-0.10	0.008	-0.01	-0.01	0.47	-0.05	5.50	0.77	0.61	-0.001	-0.10	0.0780	34.8	-0.2	-1.0	25.5
0504 B	1/4/96	-0.10	0.005	-0.01	-0.01	0.43	-0.05	4.79	0.52	0.50	-0.001	-0.10	0.1190	37.1	-0.2	3.4	27.4
0504 B	4/2/96	-0.10	0.01	-0.01	-0.01	0.50	-0.05	5.73	0.41	0.61	-0.001	-0.10	0.0880	36.2	-0.2	-1.0	23.3
0504 B	7/7/96	-0.10	0.01	-0.01	-0.01	0.49	-0.05	6.04	0.47	0.63	-0.001	-0.10	0.0810	47.5	0.7	2.3	20.4

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0517*	7/23/89	6899.7	6.0	6.51	3,817	543	291	111	4.5	303	2,079	20.9	0.53	39.00	0.00110	-0.0010	-0.005
0517*	10/11/89	6893.2	6.1	6.50	3,738	507	290	117	6.8	298	2,199	21.8	0.31	43.00	-0.00100	-0.0010	-0.005
0517*	1/3/90	6894.8	5.4	5.90	4,096	523	318	138	8.1	168	2,434	27.9	0.74	45.00	-0.00100	-0.0010	-0.005
0517*	4/3/90	6892.6	5.6	6.24	4,306	515	360	140	8.1	220	2,556	28.3	0.90	44.00	-0.00100	-0.0010	-0.005
0517*	7/2/90	6892.9	5.6	6.20	4,318	526	387	127	7.0	231	2,456	26.1	0.26	47.80	-0.00100	-0.0010	-0.005
0517*	10/16/90	6892.6	5.5	6.30	4,083	440	532	131	7.2	170	2,574	22.8	0.36	27.10	-0.00100	-0.0010	-0.005
0517*	1/16/91	6893.6	5.7	6.42	4,235	554	385	157	8.1	227	2,706	27.5	0.25	49.30	-0.00100	-0.0010	-0.005
0517*	4/10/91	6894.5	5.7	6.80	4,204	541	376	136	6.2	284	2,370	31.4	0.27	61.00	-0.00100	-0.0010	-0.005
0517*	7/16/91	6891.6	5.6	6.42	4,550	546	353	136	6.8	215	3,014	50.3	0.25	67.00	0.00260	-0.0010	-0.005
0517*	10/14/91	6887.6	5.5	6.39	5,348	452	393	175	6.2	142	3,173	77.6	0.39	30.30	0.00320	-0.0010	-0.005
0517*	1/14/92	6888.8	5.3	6.04	5,847	490	544	185	7.2	117	3,571	76.9	1.76	36.10	0.00320	-0.0010	-0.005
0517*	4/7/92	6888.8	5.3	7.19	5,539	518	495	199	8.1	103	3,457	61.7	2.32	26.70	0.00340	-0.0010	-0.005
0517*	7/7/92	6884.7	5.2	6.91	5,413	528	480	195	9.7	85.4	3,334	66.3	3.78	40.50	0.00400	-0.0010	-0.005
0517*	10/6/92	6882.6	5.2	6.73	5,109	530	451	186	7.0	73.2	3,169	62.9	3.29	41.80	0.00410	-0.0010	-0.005
0517*	1/6/93	6883.2	5.3	6.88	4,169	459	374	148	6.9	75.6	2,856	75.8	1.13	48.10	0.00670	-0.0010	-0.005
0517*	4/6/93	6884.2	5.3	6.08	4,493	458	438	183	6.1	71.0	3,066	74.1	3.76	34.50	0.00700	-0.0010	-0.005
0517*	7/13/93	6882.1	5.4	5.64	5,166	557	498	195	9.4	46.1	3,734	77.5	11.9	38.50	0.00880	-0.0010	-0.005
0517*	10/10/93	6880.1	4.8	4.49	5,918	589	508	185	10.3	1.8	3,901	79.6	26.9	39.30	-0.00100	-0.0010	-0.005
0517*	1/5/94	6880.0	4.9	4.60	5,674	518	461	195	11.0	5.7	3,740	88.4	6.52	33.80	0.00950		
0517*	4/13/94	6879.7	4.3	4.29	5,770	515	479	204	12.0	0.0	3,883	108	7.25	27.80	0.00850		
0517*	7/20/94	6878.6	5.1	4.36	6,115	604	516	177	11.7	0.0	4,308	85.9	34.2	32.90	-0.00100		
0517*	10/4/94	6878.0	4.8	4.33	6,218	554	551	204	12.5	0.0	4,563	82.5	22.4	42.50	0.00450		
0517*	1/4/95	6877.2	4.7	4.46	5,507	517	465	178	11.0	0.0	3,665	66.2	40.4	40.30	0.00320		
0517*	4/4/95	6876.8	5.2	4.72	4,608	514	338	143	6.5	6.5	2,999	54.0	17.8	44.90	0.00140		
0517*	7/6/95	6875.9	4.7	4.57	4,312	500	365	142	6.7	1.8	3,040	48.0	36.1	16.40	0.00176		
0517*	10/3/95	6875.1	4.6	4.39	5,058	465	469	185	11	0.0	3,745	12.7	41.4	7.29	0.00425		
0517*	1/3/96	6874.4	4.5	4.10	5,807	510	530	174	10.1	0.0	4,100	61.2	28.6	1.51	0.00505		
0517*	4/2/96	6874	4.6	4.44	5,804	481	550	170	10.5	0.0	3,995	61.9	27.8	1.38	0.00521		
0517*	7/7/96	6873.8	4.5	4.33	5,635	460	485	175	10.6	0.0	3,590	67.0	24.9	1.44	0.00526		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0517*	7/23/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	0.58	0.14	-0.05	0.001	-0.10	0.2520	21.4	-0.2	2.1	44.1
0517*	10/11/89	-0.10	-0.001	-0.050	-0.01	0.01	0.06	0.64	0.18	-0.05	0.013	-0.10	0.1960	8.5	-0.2	2.8	4.7
0517*	1/3/90	0.11	-0.001	-0.050	-0.01	0.01	-0.05	1.30	0.32	-0.05	0.110	-0.10	0.0880	13.4	-0.2	4.5	10.5
0517*	4/3/90	0.11	-0.001	-0.050	-0.01	0.03	-0.05	2.00	0.16	-0.05	-0.001	-0.10	0.0900	19.5	-0.2	1.0	10.8
0517*	7/2/90	0.10	-0.001	-0.050	-0.01	0.01	-0.05	1.81	0.20	-0.05	0.001	-0.10	0.1360	10.5	-0.2	1.2	10.0
0517*	10/16/90	-0.10	-0.001	-0.050	-0.01	0.04	-0.05	2.89	0.10	-0.09	-0.001	-0.10	0.0460	12.5	-0.2	-1.0	10.0
0517*	1/16/91	-0.10	-0.001	-0.050	-0.01	0.04	-0.05	2.37	-0.10	-0.05	0.001	-0.10	0.0814	11.0	-0.2	-1.0	11.3
0517*	4/10/91	-0.10	-0.001	-0.010	-0.01	0.06	-0.05	2.93	0.17	0.11	0.001	-0.10	0.1666	16.4	-0.2	-1.0	8.0
0517*	7/16/91	-0.10	-0.001	-0.010	-0.01	0.04	-0.05	2.63	0.06	0.01	-0.001	-0.10	0.1490	15.6	-0.2	-1.0	9.0
0517*	10/14/91	0.12	0.001	-0.010	-0.01	0.12	-0.05	4.46	0.10	0.06	-0.001	-0.10	0.0300	11.2	-0.2	-1.0	5.0
0517*	1/14/92	0.13	-0.001	-0.010	-0.01	0.13	-0.05	5.29	0.11	0.09	0.026	-0.10	0.0120	19.9	-0.2	1.3	14.0
0517*	4/7/92	-0.10	0.002	-0.010	-0.01	0.12	-0.05	5.69	-0.10	0.10	0.020	-0.10	0.0300	19.8	-0.2	1.3	6.6
0517*	7/7/92	0.15	-0.001	0.094	-0.01	0.12	-0.05	4.27	-0.10	0.07	0.001	-0.10	0.0060	20.6	-0.2	-1.0	6.9
0517*	10/6/92	0.10	-0.001	-0.005	-0.01	0.13	-0.05	3.92	-0.10	0.12	0.005	-0.10	0.0070	36.7	-0.2	-1.0	8.9
0517*	1/6/93	0.10	-0.001	-0.010	0.01	0.10	-0.05	3.38	-0.10	0.11	0.003	-0.10	0.0110	45.9	-0.2	-1.0	10.6
0517*	4/6/93	-0.10	-0.001	-0.005	-0.01	0.11	-0.05	4.66	-0.10	0.11	0.002	-0.10	0.0070	29.0	-0.2	-1.0	6.9
0517*	7/13/93	0.86	-0.001	-0.005	-0.01	0.20	-0.05	7.27	-0.10	0.17	0.001	-0.10	0.0030	28.8	-0.2	3.6	10.9
0517*	10/10/93	11.20	-0.001	-0.005	-0.01	0.32	-0.05	12.20	-0.10	0.38	-0.001	-0.10	0.0030	50.1	-0.2	-1.0	20.5
0517*	1/5/94	11.10	-0.001	-0.010	-0.01	0.31	-0.05	11.60	-0.10	0.27	-0.001	-0.10	0.0170	54.1	-0.2	1.1	69.8
0517*	4/13/94	96.00	-0.001	-0.010	-0.01	0.67	-0.05	18.50	-0.10	0.72	-0.001	-0.10	0.0680	61.5	-0.2	4.5	81.9
0517*	7/20/94	22.90	-0.001	-0.010	-0.01	0.41	-0.05	12.30	-0.10	0.32	-0.001	-0.10	0.0300	54.5	-0.2	-1.0	69.9
0517*	10/4/94	67.10	-0.001	-0.010	-0.01	0.67	-0.05	18.10	0.11	0.51	-0.001	-0.10	0.0610	38.6	-0.2	-1.0	48.0
0517*	1/4/95	42.40	-0.001	-0.010	-0.01	0.28	-0.05	10.50	-0.10	0.27	-0.001	-0.10	0.0500	57.1	-0.2	-1.0	69.3
0517*	4/4/95	10.50	-0.001	-0.010	-0.01	0.14	-0.05	5.65	-0.01	0.11	-0.001	-0.10	0.0430	34.7	-0.2	-1.0	43.8
0517*	7/6/95	14.40	-0.001	-0.010	-0.01	0.21	-0.05	6.21	-0.01	0.17	-0.001	-0.10	0.0684	36.2	1.0	3.8	69.1
0517*	10/3/95	47.00	0.004	-0.01	-0.01	0.16	-0.05	3.00	-0.1	-0.05	0.007	-0.10	0.1421	53.9	1.9	-1.0	94.8
0517*	1/3/96	40.00	0.001	0.02	-0.01	0.83	-0.05	13.70	-0.1	0.79	0.002	-0.10	0.1250	29.0	1.9	1.8	44.6
0517*	4/2/96	27.30	-0.001	0.01	-0.01	0.82	-0.05	12.20	-0.1	0.72	-0.001	-0.10	0.1490	31.8	1.4	21.4	34.6
0517*	7/7/96	21.20	-0.001	0.01	-0.01	0.78	-0.05	12.10	-0.1	0.71	-0.001	-0.10	0.1130	33.1	1.3	5.4	25.5

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
0518*	7/23/89	6897.2	3.3	3.44	9,675	443	764	236	35.8	0.0	6,727	64.6	123	22.00	0.04300	-0.0010	-0.005
0518*	10/11/89	6892.9	3.2	3.32	10,260	417	770	223	46.8	0.0	6,908	133.0	77.2	29.00	0.04200	-0.0010	-0.005
0518*	1/3/90	6890.2	3.0	3.00	10,370	440	748	228	30.0	0.0	6,962	108.0	40.4	18.70	0.02370	-0.0010	-0.005
0518*	4/3/90	6888.2	2.9	3.26	10,524	431	850	223	29.2	0.0	6,989	84.0	52.0	28.00	0.01560	-0.0010	-0.005
0518*	7/10/90	6886.8	3.3	2.95	9,505	415	768	198	22.3	0.0	6,226	67.0	34.4	16.00	0.02610	-0.0010	-0.005
0518*	10/9/90	6885.6	3.1	3.30	11,417	439	900	248	27.5	0.0	7,573	87.9	45.2	20.60	0.01720	-0.0010	-0.005
0518*	1/4/91	6885.1	3.4	3.62	7,402	476	168	158	33.5	0.0	4,846	85.7	12.6	0.58	0.01890	-0.0010	-0.005
0518*	4/10/91	6887.3	3.8	4.11	7,370	471	686	119	14.2	0.0	4,597	38.3	8.8	-0.01	0.01630	-0.0010	-0.005
0518*	7/16/91	6885.6	3.7	3.64	7,248	467	685	136	12.8	0.0	5,539	23.8	7.6	-0.01	0.01990	-0.0010	-0.005
0518*	10/14/91	6883.9	3.6	3.30	7,257	363	493	145	11.1	0.0	4,652	41.8	7.2	-0.01	0.01750	-0.0010	-0.005
0518*	1/14/92	6884.1	3.6	3.79	7,008	385	645	128	12.9	0.0	4,442	66.8	9.3	-0.01	0.01750	-0.0010	-0.005
0518*	4/7/92	6885.1	3.7	3.44	7,028	419	581	150	15.5	0.0	4,462	32.7	6.87	-0.10	0.01850	-0.0010	-0.005
0518*	7/7/92	6881.6	3.4	3.07	8,078	428	574	244	25.5	0.0	5,279	47.8	17.0	-0.10	0.01600	-0.0010	-0.005
0518*	10/13/92	6879.7	3.5	2.99	8,062	447	613	168	17.8	0.0	5,260	48.2	17.3	-0.10	0.01600	-0.0010	-0.005
0518*	1/21/93	6882.5	3.7	2.97	5,822	447	613	168	14.7	0.0	4,456	51.6	4.6	-0.10	0.01600	-0.0010	-0.005
0518*	4/14/93	6883.5	4.2	3.00	5,276	448	530	100	14.0	0.0	3,993	53.7	15.0	-0.10	0.01450	-0.0010	-0.005
0518*	7/15/93	6879.8	3.6	3.06	5,485	433	569	146	14.0	0.0	3,940	34.1	6.4	-0.10	0.01740	-0.0010	-0.005
0518*	10/10/93	6876.0	3.7	3.03	5,631	438	651	131	12.5	0.0	4,358	38.2	8.3	-0.10	0.01420	-0.0010	-0.005
0518*	1/5/94	6880.4	3.6	2.79	6,074	499	619	138	11.3	0.0	4,350	36.3	7.93	0.13	-0.00100		
0518*	4/13/94	6881.3	3.8	3.08	5,991	510	618	122	13.1	0.0	4,246	32.0	10.8	-0.10	0.01610		
0518*	7/21/94	6881.3	4.0	3.17	5,944	481	609	126	13.7	0.0	4,218	24.6	7.69	-0.10	0.01400		
0518*	10/5/94	6881.4	4.0	3.84	5,869	463	652	138	14.5	0.0	4,296	31.3	10.7	-0.10	0.01000		
0518*	1/5/95	6880.9	3.9	3.84	5,872	476	623	128	15.0	0.0	4,462	33.6	14.4	-0.10	0.01410		
0518*	4/5/95	6880.9	3.9	3.30	7,021	628	718	140	14.2	0.0	5,113	29.6	12.8	-0.10	0.01150		
0518*	7/6/95	6880.3	4.4	3.10	6,818	622	595	133	12.6	0.0	4,765	34.2	16.5	-0.10	0.01370		
0518*	10/4/95	6880.2	3.6	3.08	4,162	618	314	173	6.2	0.0	3,064	28.7	5.22	-0.1	0.01690		
0518*	1/4/96	6880.1	3.2	3.11	7,039	670	660	145	10.5	0.0	5,245	33.4	9.0	-0.1	0.01530		
0518*	4/2/96	6880.2	3.4	3.50	7,408	661	700	141	11.6	0.0	5,180	37.3	9.2	0.13	0.01470		
0518*	7/7/96	6879.5	3.5	3.24	5,648	453	691	155	12.5	0.0	5,139	42.8	13.0	1.2	0.01580		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0518*	7/23/89	420.00	0.001	0.160	-0.01	1.70	0.11	41.00	-0.10	1.90	0.001	-0.10	0.8420	41.0	17.9	4.1	120.0
0518*	10/11/89	500.00	-0.001	0.190	0.03	1.80	0.19	44.00	-0.01	2.10	0.006	1.00	1.0800	22.7	55.8	5.0	70.1
0518*	1/3/90	410.00	0.001	0.160	0.01	1.90	-0.05	41.00	-0.01	2.10	-0.001	0.22	0.9880	14.6	42.0	5.1	54.0
0518*	4/3/90	430.00	0.001	0.180	-0.01	2.10	-0.05	50.00	-0.01	2.50	-0.001	0.16	0.8010	-13.0	10.2	2.2	15.0
0518*	7/10/90	299.00	-0.001	0.130	0.01	1.17	-0.05	36.50	-0.10	1.91	0.001	0.26	1.0770	8.4	6.8	-1.0	15.0
0518*	10/9/90	406.00	0.002	0.210	0.01	2.75	-0.05	51.00	-0.10	3.21	-0.001	0.90	1.7860	22.9	4.0	-1.0	22.0
0518*	1/4/91	128.00	-0.001	0.060	-0.01	1.00	-0.05	19.80	-0.10	1.31	0.001	0.26	0.7028	12.7	6.2	-1.0	15.5
0518*	4/10/91	62.10	-0.001	-0.010	-0.01	0.70	-0.05	11.13	-0.10	0.80	-0.001	0.11	0.3920	18.1	1.6	1.5	12.1
0518*	7/16/91	64.90	-0.001	0.050	0.02	0.96	-0.05	16.40	-0.10	0.94	-0.001	-0.10	0.3040	9.8	-0.2	4.6	4.0
0518*	10/14/91	73.20	-0.001	0.050	0.02	0.97	-0.05	16.80	-0.10	0.91	-0.001	0.12	0.4300	-5.5	-0.2	-1.0	5.0
0518*	1/14/92	63.10	-0.001	-0.030	0.02	1.43	-0.05	14.00	-0.10	0.92	-0.001	0.14	0.2580	18.0	-0.2	1.9	12.0
0518*	4/7/92	41.20	-0.003	-0.030	0.03	0.86	-0.05	18.10	-0.10	0.66	-0.001	-0.10	0.2680	22.5	-0.2	-1.0	5.9
0518*	7/7/92	161.00	-0.001	-0.010	-0.01	1.13	-0.05	20.80	-0.10	1.09	-0.001	0.22	0.8600	7.2	-0.2	-1.0	5.6
0518*	10/13/92	123.00	-0.001	-0.010	0.02	1.17	-0.05	20.30	-0.10	1.06	-0.001	0.40	1.2200	13.1	16.1	-1.0	6.9
0518*	1/21/93	32.50	0.001	-0.010	-0.01	0.42	-0.05	11.80	-0.10	0.93	-0.001	-0.10	0.1890	11.2	2.2	3.7	8.5
0518*	4/14/93	39.10	0.001	-0.010	-0.01	0.93	-0.05	13.70	-0.10	1.05	-0.001	-0.10	0.2520	29.4	-2.0	1.9	9.7
0518*	7/15/93	51.00	-0.001	-0.010	-0.01	0.90	-0.05	14.40	-0.10	0.80	-0.001	0.15	0.1700	6.5	-2.0	-1.0	4.7
0518*	10/10/93	68.00	0.003	0.053	-0.01	0.75	-0.05	14.90	-0.10	0.92	-0.001	-0.10	0.2890	8.0	21.2	1.2	30.5
0518*	1/5/94	65.60	-0.001	0.050	-0.01	0.93	-0.05	16.80	-0.10	0.80	-0.001	0.10	0.3310	-6.5	12.1	3.1	18.6
0518*	4/13/94	56.70	0.001	0.030	-0.01	0.77	-0.05	12.60	-0.10	0.80	-0.001	0.16	0.3060	14.8	-0.2	2.0	19.7
0518*	7/21/94	53.40	-0.001	0.020	-0.01	0.86	-0.05	14.50	-0.10	0.73	-0.001	-0.10	0.2370	26.0	-0.2	7.6	34.6
0518*	10/5/94	37.90	0.001	-0.010	-0.01	1.04	-0.05	9.65	-0.10	0.54	0.004	-0.10	0.3020	26.3	-0.2	-1.0	35.2
0518*	1/5/95	62.20	-0.001	-0.010	-0.01	0.96	-0.05	15.00	-0.10	0.90	-0.001	0.15	0.3210	18.8	25.2	-1.0	47.9
0518*	4/5/95	64.00	0.001	0.040	0.02	0.97	-0.05	15.40	-0.10	0.88	-0.001	0.23	0.3320	23.2	8.6	2.4	38.9
0518*	7/6/95	85.00	0.002	0.050	-0.01	0.99	-0.05	15.90	-0.10	0.91	-0.001	0.28	0.5747	16.5	17.7	1.9	38.6
0518*	10/4/95	-0.10	0.002	-0.01	-0.01	0.14	-0.05	0.26	-0.1	-0.05	0.003	-0.10	0.0530	-2.5	-0.2	-1.0	4.3
0518*	1/4/96	98.50	0.001	0.05	-0.01	1.01	-0.05	15.50	-0.1	0.91	-0.001	0.16	0.4720	13.7	25.0	4.2	17.9
0518*	4/2/96	97.00	-0.001	0.05	-0.01	1.02	-0.05	15.40	-0.1	0.87	-0.001	0.13	0.5870	15.8	16.2	-1.0	28.3
0518*	7/7/96	122.00	-0.001	-0.01	-0.01	1.14	-0.05	17.30	-0.1	1.08	-0.001	0.14	0.5480	14.2	23.2	6.2	49.2

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 01	7/25/89	6804.3	6.5	6.40	4,590	648	380	161	10.2	427	2,852	29.3	0.83	0.01	-0.00100	-0.0010	-0 005
EPA 01	10/4/89	6804.5	6.6	6.73	4,522	620	352	158	13.4	466	2,844	25.9	0.32	0.01	-0.00100	-0.0010	-0 005
EPA 01	1/16/90	6804.2	6.4	6.56	4,632	576	352	161	10.6	458	2,842	29.5	0.46	0.02	-0.00100	-0.0010	-0 005
EPA 01	4/17/90	6803.8	6.3	6.76	4,714	593	244	156	10.2	468	2,662	30.4	0.63	0.07	-0.00100	-0.0010	-0.005
EPA 01	7/12/90	6803.1	6.4	6.78	4,725	583	360	151	10.8	482	2,652	29.7	0.26	0.10	-0.00100	-0.0010	-0.005
EPA 01	10/16/90	6802.9	6.3	7.19	4,706	633	388	172	12.8	448	2,800	32.0	0.36	0.11	-0.00100	-0.0010	-0.005
EPA 01	1/8/91	6802.3	6.4	6.70	4,730	628	384	159	29.0	436	2,719	66.0	0.51	0.05	-0.00100	-0.0010	-0.005
EPA 01	4/16/91	6802.2	6.3	7.74	4,746	608	368	161	11.2	480	2,596	34.1	0.46	0.29	-0.00100	-0.0010	-0.005
EPA 01	7/3/91	6801.8	6.4	6.99	4,494	560	333	141	9.0	488	2,905	31.8	0.21	-0.01	-0.00100	-0.0010	-0.005
EPA 01	10/22/91	6801.4	6.4	7.14	4,713	584	344	156	10.2	483	2,853	38.1	0.32	-0.01	-0.00100	-0.0010	-0.005
EPA 01	1/22/92	6801.0	6.3	7.31	4,824	584	344	148	9.7	452	2,905	36.2	-0.05	-0.01	-0.00100	-0.0010	-0 005
EPA 01	4/2/92	6800.5	6.1	7.35	4,238	566	365	188	12.3	462	2,813	34.5	0.46	-0.01	-0.00100	-0.0010	-0.005
EPA 01	7/15/92	6799.1	6.2	7.01	4,765	582	375	173	11.5	459	2,868	36.1	0.42	-0.10	-0.00100	-0.0010	-0.005
EPA 01	10/12/92	6798.6	6.3	6.93	4,708	567	342	155	11.5	425	3,104	35.5	0.53	-0.10	-0.00100	-0.0010	-0.005
EPA 01	1/13/93	6798.1	6.3	6.96	4,557	574	320	171	12.5	423	2,834	36.0	0.48	-0.10	-0.00100	-0.0010	-0 005
EPA 01	4/15/93	6797.9	6.3	8.00	4,149	532	376	165	9.2	373	2,836	31.2	0.17	0.60	-0.00100	-0.0010	-0 005
EPA 01	7/20/93	6797.5	6.4	7.10	4,178	601	326	145	10.7	421	2,769	33.0	0.24	-0.10	-0.00100	0.0016	-0.005
EPA 01	10/12/93	6796.3	6.8	6.92	4,118	578	326	155	9.2	404	2,815	30.2	0.08	-0.10	-0.00100	-0.0010	-0.005
EPA 01	1/11/94	6796.9	6.7	7.66	4,656	566	339	132	9.1	333	3,005	28.4	-0.05	0.60	-0.00100		
EPA 01	4/20/94	6796.5	6.6	6.67	4,260	560	342	132	8.7	345	2,874	27.6	0.62	0.16	-0.00100		
EPA 01	7/26/94	6797.4	6.7	7.51	4,000	570	348	129	8.8	328	2,726	27.6	0.12	0.14	-0.00100		
EPA 01	10/11/94	6795.9	6.7	7.84	4,596	622	383	157	10.3	349	3,145	26.6	0.36	0.58	-0.00100		
EPA 01	1/10/95	6795.6	6.6	7.60	4,626	705	261	144	12.0	309	2,941	28.9	0.46	0.44	-0.00100		
EPA 01	4/11/95	6795.9	6.8	6.98	4,431	616	318	131	9.6	360	2,885	31.9	0.57	0.12	-0.00100		
EPA 01	7/11/95	6795.3	7.0	7.93	4,039	595	356	132	9.6	367	2,673	28.7	0.36	0.52	-0.00100		
EPA 01	10/10/95	6795.2	6.9	7.81	4,065	600	355	144	10.1	334	2,730	24.5	0.31	0.24	-0.00100		
EPA 01	1/10/96	6794.9	7.1	7.34	4,572	595	360	129	9.1	276	2,935	33.0	0.06	0.31	-0.00100		
EPA 01	4/10/96	6794.8	7.5	7.88	4,540	615	370	128	10.2	248	3,000	26.1	0.07	0.22	-0.00100		
EPA 01	7/17/96	6794.7	7.0	7.29	4,458	560	330	135	10.4	242	2,925	25.2	0.05	-0.1	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 01	7/25/89	0.39	0.149	-0.050	0.01	-0.01	-0.05	4.70	62.00	-0.05	-0.001	-0.10	0.0034	1.4	1.8	-1.0	3.0
EPA 01	10/4/89	0.45	0.156	-0.050	0.01	-0.01	-0.05	4.90	50.00	-0.05	-0.001	-0.10	0.0050	-1.2	-0.2	-1.0	-1.0
EPA 01	1/16/90	0.20	0.142	-0.050	-0.01	-0.01	-0.05	5.00	49.00	-0.05	-0.001	-0.10	0.0040	-1.2	-0.2	1.6	1.8
EPA 01	4/17/90	0.41	0.183	-0.050	-0.01	-0.01	-0.05	5.00	46.00	-0.05	-0.001	-0.10	0.0030	-1.2	-0.2	-1.0	1.3
EPA 01	7/12/90	-0.10	0.195	-0.050	-0.01	0.05	-0.05	5.45	40.30	-0.05	-0.001	-0.10	0.0068	-1.2	-0.2	-1.0	-1.0
EPA 01	10/16/90	-0.10	0.318	-0.050	-0.01	0.02	-0.05	4.86	41.20	-0.05	-0.001	-0.10	0.0062	-1.2	-0.2	2.0	-1.0
EPA 01	1/8/91	-0.10	0.181	-0.010	0.01	0.03	-0.05	5.18	43.10	-0.05	-0.001	-0.10	0.0054	-1.2	-0.2	-1.0	-1.0
EPA 01	4/16/91	-0.10	0.193	-0.010	-0.01	0.02	-0.05	4.88	38.40	-0.05	-0.001	-0.10	0.0050	-1.2	-0.2	-1.0	-1.0
EPA 01	7/3/91	-0.10	0.190	-0.010	-0.01	0.03	-0.05	4.37	35.90	-0.05	-0.001	-0.10	0.0118	-1.4	-0.2	-1.0	-1.0
EPA 01	10/22/91	-0.10	0.242	-0.010	-0.01	0.01	-0.05	4.00	35.30	-0.05	-0.001	-0.10	0.0041	-1.2	-0.2	3.2	-1.0
EPA 01	1/22/92	-0.10	0.210	-0.010	-0.01	0.03	-0.05	4.43	42.10	-0.05	-0.001	-0.10	0.0070	-2.0	-0.2	-1.0	1.0
EPA 01	4/2/92	-0.10	0.175	-0.010	0.01	0.03	-0.05	4.76	41.30	-0.05	-0.001	-0.10	0.0920	-1.2	-0.2	1.3	-1.0
EPA 01	7/15/92	-0.10	0.176	-0.010	0.01	0.03	-0.05	4.68	38.90	-0.05	-0.001	-0.10	0.0070	-1.6	-0.2	-1.0	-1.0
EPA 01	10/12/92	0.12	0.303	-0.010	-0.01	0.02	-0.05	4.45	35.00	-0.05	-0.001	-0.10	0.0110	-1.5	-0.2	-1.0	-1.0
EPA 01	1/13/93	-0.10	0.059	-0.010	0.01	-0.01	-0.05	4.07	31.20	-0.05	-0.001	-0.10	0.0040	-1.2	-0.2	-1.0	-1.0
EPA 01	4/15/93	-0.10	0.060	-0.010	-0.01	-0.01	-0.05	4.31	35.30	0.06	-0.001	-0.10	0.0160	-3.3	-0.2	-1.0	-1.0
EPA 01	7/20/93	-0.10	0.047	-0.010	-0.01	-0.01	-0.05	4.31	31.90	-0.05	-0.001	-0.10	0.0210	-2.2	-0.2	4.7	-1.0
EPA 01	10/12/93	-0.10	0.107	-0.010	0.01	0.02	-0.05	3.47	35.50	-0.05	-0.001	-0.10	0.0090	-1.8	-0.2	-1.0	-1.0
EPA 01	1/11/94	-0.10	0.050	-0.010	-0.01	0.02	-0.05	3.84	39.70	0.19	-0.001	-0.10	0.0170	-5.6	-0.2	1.8	9.1
EPA 01	4/20/94	-0.10	0.071	-0.010	-0.01	-0.01	-0.05	3.02	28.10	-0.05	-0.001	-0.10	0.0080	-1.2	-0.2	-1.0	-1.0
EPA 01	7/26/94	-0.10	0.055	-0.010	-0.01	0.05	-0.05	4.13	30.00	0.14	-0.001	-0.10	0.0080	3.4	-0.2	1.4	4.9
EPA 01	10/11/94	-0.10	0.050	-0.010	-0.01	0.05	-0.05	3.47	31.50	0.12	-0.001	-0.10	0.0100	-1.2	-0.2	3.5	-1.0
EPA 01	1/10/95	-0.10	0.069	-0.010	-0.01	0.05	-0.05	3.60	34.10	0.20	-0.001	-0.10	0.0090	1.6	-0.2	1.1	2.4
EPA 01	4/11/95	-0.10	0.036	-0.010	-0.01	0.03	-0.05	3.58	26.40	0.05	-0.001	-0.10	0.0050	-1.2	-0.2	-1.0	-1.0
EPA 01	7/11/95	-0.10	0.043	-0.010	-0.01	-0.01	-0.05	3.59	28.10	-0.05	-0.001	-0.10	0.0060	-1.2	-0.2	11.0	1.1
EPA 01	10/10/95	-0.10	0.037	-0.01	-0.01	0.04	-0.05	3.60	28.10	0.07	-0.001	-0.10	0.0120	-1.2	-0.2	2.7	1.3
EPA 01	1/10/96	-0.10	0.016	-0.01	-0.01	0.04	-0.05	3.48	26.90	0.08	-0.001	-0.10	0.0098	-1.6	-0.2	-1.0	-1.0
EPA 01	4/10/96	-0.10	0.017	-0.01	-0.01	0.05	-0.05	3.21	28.50	0.09	-0.001	-0.10	0.0120	2.0	-0.2	-1.0	-1.0
EPA 01	7/17/96	-0.10	0.015	-0.01	-0.01	0.10	-0.05	3.54	24.50	0.18	-0.001	-0.10	0.0087	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 09	7/26/89	6911.0	6.1	5.54	5,122	543	558	122	11.9	122	3,598	28.1	0.43	0.07	-0.00100	-0.0010	-0.005
EPA 09	10/5/89	6911.2	4.8	6.06	5,382	507	580	118	15.0	92.5	3,566	28.3	0.62	0.07	-0.00100	-0.0010	-0.005
EPA 09	1/16/90	6911.2	5.7	6.15	4,982	458	498	125	12.0	214	3,210	23.8	0.38	0.15	-0.00100	-0.0010	-0.005
EPA 09	4/17/90	6911.1	5.5	6.00	5,133	479	492	130	11.5	274	3,261	28.0	0.46	0.18	-0.00100	-0.0010	-0.005
EPA 09	7/17/90	6910.8	4.9	4.30	5,971	494	619	115	11.7	0.0	4,248	26.8	0.45	0.03	-0.00100	-0.0010	-0.005
EPA 09	10/16/90	6910.9	4.7	4.29	5,548	494	554	117	12.5	50.0	3,753	33.7	0.41	0.02	-0.00100	-0.0010	-0.005
EPA 09	1/8/91	6910.7	5.3	6.19	5,309	548	569	131	16.0	105	3,561	31.1	0.49	-0.01	-0.00100	-0.0010	-0.005
EPA 09	4/17/91	6910.9	5.3	6.25	5,360	458	543	124	13.2	68.0	3,576	27.3	0.43	0.03	-0.00100	-0.0010	-0.005
EPA 09	7/3/91	6910.7	4.8	6.27	4,927	453	516	107	10.2	121	3,446	37.7	0.50	0.20	-0.00100	-0.0010	-0.005
EPA 09	10/22/91	6910.8	5.0	5.97	5,269	475	501	119	11.1	122	3,555	33.2	0.42	-0.01	-0 00100	-0.0010	-0.005
EPA 09	1/22/92	6911.6	5.2	5.29	6,127	484	567	110	11.1	14.7	4,132	27.7	0.93	0.49	-0.00100	-0.0010	-0.005
EPA 09	4/2/92	6910.6	5.4	6.61	5,681	576	609	133	15.1	60.9	4,137	34.4	0.73	-0.10	-0.00100	-0.0010	-0.005
EPA 09	7/15/92	6909.7	5.8	3.88	6,008	496	573	122	12.4	0.0	3,956	66.8	0.28	0.10	-0.00100	-0.0010	-0.005
EPA 09	10/14/92	6909.7	5.3	3.90	6,070	479	537	109	12.0	0.0	3,996	51.0	0.45	-0.10	-0.00100	-0.0010	-0.005
EPA 09	1/13/93	6909.5	5.6	7.06	5,015	493	475	116	12.1	105	3,403	24.4	0.67	-0.10	-0.00100	-0.0010	-0.005
EPA 09	4/15/93	6909.6	5.3	6.44	4,596	425	494	126	9.9	62.3	3,487	27.9	0.45	0.20	-0.00100	-0 0010	-0.005
EPA 09	7/20/93	6909.8	5.6	5.94	4,554	493	464	117	10.9	54.8	3,250	30.0	0.25	-0.10	-0.00100	-0.0010	-0.005
EPA 09	10/12/93	6907.0	5.9	5.89	4,633	497	490	115	10.8	86.4	3,399	27.3	0.42	-0.10	-0.00100	-0.0010	-0.005
EPA 09	1/12/94	6908.0	4.4	2.87	5,738	535	556	101	11.8	0.0	4,110	55.2	0.58	0.13	-0.00100		
EPA 09	4/20/94	6908.7	5.4	3.62	5,771	550	556	108	10.0	0.0	4,149	30.0	1.82	-0.10	-0.00100		
EPA 09	7/26/94	6909.5	5.2	6.16	4,732	540	479	115	10.3	31.3	3,472	28.0	0.46	-0.10	-0.00100		
EPA 09	10/11/94	6908.4	5.0	3.63	5,664	508	603	119	11.3	0.0	4,045	28.7	1.08	-0.10	-0.00100		
EPA 09	1/10/95	6908.2	5.3	4.92	6,144	560	650	117	13.3	10.3	4,239	28.9	1.78	-0.10	-0.00100		
EPA 09	4/11/95	6908.6	6.2	6.04	5,264	550	526	120	11.5	119	3,500	15.7	1.15	-0.10	-0.00100		
EPA 09	7/11/95	6907.9	5.9	6.06	5,046	498	540	120	11.5	34.1	3,485	29.8	1.04	-0.10	-0.00100		
EPA 09	10/10/95	6908	5.7	6.95	5,003	510	530	120	11.6	70.8	3,475	27.0	0.88	-0.1	-0.00100		
EPA 09	1/9/96	6907.6	5.6	5.94	5,085	485	550	109	11.3	52.8	3,790	28.4	0.24	-0.1	-0.00100		
EPA 09	4/10/96	6907.6	5.9	6.20	5,494	525	575	107	11.7	27.5	3,905	28.2	0.35	-0.1	-0.00100		
EPA 09	7/17/96	6907.4	5.9	5.58	5,615	505	555	117	12.1	23.4	3,816	32.0	0.31	-0.1	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 09	7/26/89	0.22	-0.001	-0.050	-0.01	0.12	-0.05	4.50	-0.10	0.09	-0.001	-0.10	0.0020	6.7	6.5	2.1	4.1
EPA 09	10/5/89	1.00	-0.001	-0.050	-0.01	0.11	-0.05	4.00	-0.01	0.08	-0.001	-0.10	0.0030	7.0	2.2	-1.0	9.1
EPA 09	1/16/90	-0.10	-0.001	-0.050	-0.01	0.08	-0.05	2.80	-0.01	-0.05	-0.001	-0.10	0.0030	3.1	-0.2	-1.0	2.5
EPA 09	4/17/90	0.25	0.001	-0.050	0.01	0.09	-0.05	3.70	-0.10	0.05	-0.001	-0.10	0.0020	5.2	-0.2	-1.0	4.6
EPA 09	7/17/90	8.00	-0.009	-0.050	-0.01	0.21	-0.05	6.79	-0.10	0.19	-0.001	-0.10	0.0078	20.4	-0.2	-1.0	10.0
EPA 09	10/16/90	1.10	0.001	-0.050	-0.01	0.14	-0.05	4.74	0.10	0.16	-0.001	-0.10	0.0021	13.6	-0.2	-1.0	9.0
EPA 09	1/8/91	0.61	-0.001	-0.010	-0.01	0.29	-0.05	6.35	-0.10	0.28	-0.001	-0.10	0.0562	5.2	-0.2	-1.0	4.0
EPA 09	4/17/91	4.90	-0.001	-0.010	-0.01	0.24	-0.05	5.77	-0.10	0.25	-0.001	-0.10	0.0220	19.3	-0.2	-1.0	14.0
EPA 09	7/3/91	1.52	0.002	-0.010	-0.01	0.19	-0.05	5.09	-0.10	0.17	-0.001	-0.10	0.0137	11.6	-0.2	-1.0	7.0
EPA 09	10/22/91	1.58	0.001	-0.010	-0.01	0.12	-0.05	4.48	-0.10	0.10	-0.001	-0.10	0.0062	5.1	-0.2	2.7	4.0
EPA 09	1/22/92	1.01	0.013	-0.010	-0.01	0.21	-0.05	6.16	-0.10	0.22	-0.001	-0.10	0.0070	9.2	-0.2	-1.0	5.0
EPA 09	4/2/92	2.50	0.014	0.020	0.02	0.02	-0.05	7.86	-0.10	0.29	-0.001	-0.10	0.0020	12.2	-0.2	-1.0	0.4
EPA 09	7/15/92	1.25	0.010	-0.010	-0.01	0.23	-0.05	6.61	-0.10	0.22	-0.001	-0.10	0.0060	14.4	-0.2	1.3	5.9
EPA 09	10/14/92	2.36	0.018	-0.010	-0.01	0.28	-0.05	7.63	-0.10	0.27	-0.001	-0.10	0.0020	18.5	-0.2	-1.0	9.9
EPA 09	1/13/93	-0.10	0.003	-0.010	-0.01	0.04	-0.05	2.66	0.14	0.10	-0.001	-0.10	0.0050	10.7	-0.2	-1.0	4.1
EPA 09	4/15/93	0.18	-0.001	-0.010	-0.01	0.08	-0.05	3.16	-0.10	0.08	-0.001	-0.10	0.0020	5.4	-0.2	-1.0	3.4
EPA 09	7/20/93	-0.10	-0.001	-0.010	-0.01	0.07	-0.05	3.08	0.11	-0.05	-0.001	-0.10	0.0060	8.3	-0.2	-1.0	3.5
EPA 09	10/12/93	1.22	-0.001	-0.010	-0.01	0.14	-0.05	4.41	-0.10	0.14	-0.001	-0.10	0.0050	16.6	-0.2	1.2	10.0
EPA 09	1/12/94	31.10	0.029	0.090	-0.01	0.60	-0.05	9.64	0.42	0.85	-0.001	-0.10	0.1220	26.7	-0.2	-1.0	33.2
EPA 09	4/20/94	3.30	0.021	-0.010	-0.01	0.21	-0.05	6.90	0.19	0.24	-0.001	-0.10	0.0030	22.0	-0.2	-1.0	26.4
EPA 09	7/26/94	0.81	-0.001	-0.010	-0.01	0.10	-0.05	4.29	0.11	-0.05	-0.001	-0.10	0.0010	10.4	-0.2	-1.0	13.1
EPA 09	10/11/94	1.10	-0.001	-0.010	-0.01	0.15	-0.05	4.49	-0.10	0.15	-0.001	-0.10	0.0020	9.8	-0.2	5.0	10.7
EPA 09	1/10/95	5.54	0.012	-0.010	-0.01	0.27	-0.05	7.76	-0.10	0.28	-0.001	-0.10	0.0030	25.0	-0.2	1.2	28.2
EPA 09	4/11/95	0.18	0.002	-0.010	-0.01	0.07	-0.05	3.59	-0.10	-0.05	-0.001	-0.10	0.0010	6.9	-0.2	-1.0	8.5
EPA 09	7/11/95	-0.10	0.003	-0.010	-0.01	0.02	-0.05	0.85	-0.10	-0.05	-0.001	-0.10	0.0006	8.1	0.4	-1.0	16.7
EPA 09	10/10/95	0.15	0.001	-0.01	-0.01	0.08	-0.05	3.88	-0.1	0.07	-0.001	-0.10	0.0015	6.0	-0.2	-1.0	11.4
EPA 09	1/9/96	1.87	-0.001	-0.01	-0.01	0.17	-0.05	5.15	-0.1	0.14	-0.001	-0.10	0.0024	13.9	-0.2	-1.0	8.7
EPA 09	4/10/96	0.34	0.001	-0.01	-0.01	0.11	-0.05	4.20	-0.1	0.09	-0.001	-0.10	0.0008	8.9	-0.2	-1.0	10.2
EPA 09	7/17/96	0.56	-0.001	-0.01	-0.01	0.15	-0.05	4.94	-0.1	0.12	-0.001	-0.10	0.0007	11.8	-0.2	-1.0	7.3

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 03*	7/26/89	6895.6	6.8	5.83	4,839	587	465	118	10.5	168	3,358	25.1	0.31	0.02	-0.00100	-0.0010	-0.005
EPA 03*	10/5/89	6894.9	6.3	6.52	4,742	507	438	115	13.9	159	3,131	24.6	0.27	0.09	-0.00100	-0.0010	-0.005
EPA 03*	1/23/90	6892.8	6.8	6.29	5,594	616	494	148	12.9	159	3,620	26.3	0.51	0.10	-0.00100	-0.0010	-0 005
EPA 03*	4/18/90	6891.7	6.4	7.00	5,639	560	523	130	11.1	45.5	3,653	28.9	0.57	0.04	-0.00100	-0.0010	-0.005
EPA 03*	7/17/90	6890.5	6.7	6.10	5,385	600	536	120	11.9	139	3,368	23.6	0.28	0.04	-0.00100	-0.0010	-0 005
EPA 03*	10/16/90	6889.5	6.5	6.60	4,846	517	468	127	13.0	142	3,253	29.7	0.26	0.02	-0.00100	-0.0010	-0.005
EPA 03*	1/8/91	6888.8	6.6	6.25	4,646	532	481	119	22.0	145	3,002	27.3	0.23	0.07	-0.00100	-0.0010	-0.005
EPA 03*	4/17/91	6888.3	6.6	6.99	4,392	513	349	120	14.1	142	2,888	25.6	0.21	0.02	-0.00100	-0.0010	-0.005
EPA 03*	7/3/91	6887.7	6.6	6.42	3,939	467	353	112	11.0	137	2,885	31.2	0.35	0.03	-0.00100	-0.0010	-0.005
EPA 03*	10/22/91	6887.0	6.6	6.51	3,752	493	264	116	13.4	139	2,485	24.2	0.18	0.02	-0.00100	-0.0010	-0 005
EPA 11	7/7/89		5.9	5.90	4,245	587	337	151	10.1	176	2,757	29.9	0.56	0.02	-0.00100	-0.0010	-0.005
EPA 11	10/4/89		5.8	6.30	4,392	565	349	142	12.6	189	2,826	28.3	0.48	0.01	-0.00100	-0.0010	-0.005
EPA 11	1/16/90		5.6	5.88	4,406	515	335	150	10.4	177	2,813	30.3	0.55	0.07	-0.00100	-0.0010	-0.005
EPA 11	4/17/90		6.0	6.38	4,505	538	344	148	10.3	177	2,649	31.8	0.60	0.07	-0.00100	-0.0010	-0.005
EPA 12	7/25/89	6865.9	6.1	5.96	4,722	582	430	151	9.7	139	3,151	30.2	0.38	0.02	-0.00100	-0.0010	-0 005
EPA 12	10/4/89	6865.8	5.9	6.40	4,742	534	414	132	10.9	167	3,039	26.4	0.37	0.03	-0.00100	-0.0010	-0.005
EPA 12	1/16/90	6864.8	5.9	6.01	4,712	505	392	148	9.8	146	3,074	27.1	0.40	0.70	-0.00100	-0.0010	-0.005
EPA 12	4/17/90	6863.9	5.9	6.47	4,757	521	402	143	9.2	170	2,989	27.0	0.41	0.15	-0.00100	-0.0010	-0.005
EPA 12	7/12/90	6862.8	6.0	6.26	4,839	532	437	143	10.0	139	2,754	27.9	0.27	0.12	-0.00100	-0.0010	-0 005
EPA 12	10/16/90	6862.2	6.0	6.65	4,816	491	409	146	10.7	142	3,102	29.0	0.32	0.07	-0.00100	-0.0010	-0.005
EPA 12	1/8/91	6861.4	6.0	6.29	4,828	536	429	144	24.0	140	3,100	27.3	0.48	0.07	-0.00100	-0.0010	-0.005
EPA 12	4/16/91	6861.0	5.9	6.86	4,863	527	429	137	8.5	109	3,204	27.6	0.31	0.10	-0.00100	-0.0010	-0.005
EPA 12	7/3/91	6860.4	5.8	6.32	4,823	486	409	133	8.0	119	3,257	25.1	0.41	0.03	-0.00100	-0.0010	-0.005
EPA 12	10/22/91	6859.7	5.8	6.28	4,884	507	423	140	8.5	139	3,226	29.5	0.16	-0.01	-0.00100	-0.0010	-0 005
EPA 12	1/23/92	6858.4	5.9	6.24	5,060	531	423	130	8.2	75.4	3,162	24.8	1.72	-0.01	-0.00100	-0.0010	-0.005
EPA 12	4/2/92	6857.5	5.6	7.04	4,820	523	457	167	11.1	122	3,297	23.4	1.50	-0.10	-0.00100	-0.0010	-0.005
EPA 12	7/15/92	6856.0	5.8	7.22	5,073	495	438	149	9.3	50.0	3,264	23.8	0.23	-0.10	-0.00100	-0.0010	-0.005

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 03*	7/26/89	-0.10	0.003	-0.050	-0.01	0.03	0.07	5.60	-0.10	-0.05	-0.001	-0.10	0.0103	-2.5	2.3	-1.0	4.3
EPA 03*	10/5/89	-0.10	0.017	-0.050	-0.01	0.02	-0.05	4.80	0.05	-0.05	-0.001	-0.10	0.0160	-2.5	-0.2	-1.0	-1.0
EPA 03*	1/23/90	-0.10	0.003	-0.050	-0.01	0.11	-0.05	6.10	0.29	0.05	-0.001	-0.10	0.0490	-2.5	4.7	-1.0	6.1
EPA 03*	4/18/90	-0.10	0.024	-0.050	-0.01	0.07	-0.05	7.20	-0.10	-0.05	-0.001	-0.10	0.0260	-2.0	-0.2	1.9	1.6
EPA 03*	7/17/90	-0.10	0.016	-0.050	-0.01	0.04	-0.05	6.78	-0.10	-0.05	-0.001	-0.10	0.0330	-1.2	3.2	-1.0	3.0
EPA 03*	10/16/90	-0.10	0.001	-0.050	-0.01	0.03	-0.05	5.90	0.10	-0.05	-0.001	-0.10	0.0192	-1.8	-0.2	-1.0	-1.0
EPA 03*	1/8/91	0.20	0.006	-0.010	-0.01	0.05	-0.05	6.07	0.16	0.05	-0.001	-0.10	0.0240	-2.1	-0.2	-1.0	1.0
EPA 03*	4/17/91	0.25	0.008	-0.010	-0.01	0.03	-0.05	4.24	0.17	-0.05	-0.001	-0.10	0.0250	-1.6	-0.2	-1.0	3.0
EPA 03*	7/3/91	0.20	0.008	-0.010	-0.01	0.03	-0.05	3.96	0.25	-0.05	-0.001	-0.10	0.0226	-1.8	-0.2	-1.0	-1.0
EPA 03*	10/22/91	0.22	0.001	-0.010	-0.01	0.02	-0.05	2.87	0.24	-0.05	-0.001	-0.10	0.0145	-1.2	-0.2	-1.0	-1.0
EPA 11	7/7/89	0.42	0.137	-0.050	-0.01	0.240	-0.05	3.30	68.00	0.45	-0.001	-0.10	0.0103	7.6	5.8	-1.0	5.3
EPA 11	10/4/89	0.49	0.604	-0.050	-0.01	0.220	-0.05	3.20	50.00	0.46	-0.001	-0.10	0.0140	8.1	0.5	-1.0	6.1
EPA 11	1/16/90	0.22	0.481	-0.050	-0.01	0.230	-0.05	3.30	50.00	0.49	-0.001	-0.10	0.0080	9.2	0.4	-1.0	7.1
EPA 11	4/17/90	0.34	0.357	-0.050	-0.01	0.230	-0.05	3.10	46.00	0.48	-0.001	-0.10	0.0100	7.8	0.6	-1.0	6.8
EPA 12	7/25/89	-0.10	0.001	-0.050	-0.01	0.110	-0.05	4.10	7.60	0.30	-0.001	-0.10	0.0017	8.3	3.4	-1.0	7.1
EPA 12	10/4/89	0.11	0.001	-0.050	-0.01	0.110	-0.05	3.50	6.30	0.27	-0.001	-0.10	0.0040	9.0	2.2	2.0	13.0
EPA 12	1/16/90	-0.10	0.002	-0.050	-0.01	0.130	-0.05	3.50	6.70	0.24	-0.001	-0.10	0.0040	8.6	-0.2	-1.0	5.5
EPA 12	4/17/90	-0.10	0.002	-0.050	-0.01	0.080	-0.05	3.50	5.30	0.20	-0.001	-0.10	0.0030	12.1	-0.2	-1.0	6.5
EPA 12	7/12/90	-0.10	0.084	-0.050	-0.01	0.100	-0.05	3.50	7.01	0.19	-0.001	-0.10	0.0029	13.3	-0.2	2.4	-1.0
EPA 12	10/16/90	-0.10	0.095	-0.050	-0.01	0.130	-0.05	3.35	6.54	0.19	-0.001	-0.10	0.0007	14.4	-0.2	-1.0	5.0
EPA 12	1/8/91	0.10	0.004	-0.010	-0.01	0.120	-0.05	3.06	3.87	0.21	-0.001	-0.10	0.0036	5.2	-0.2	-1.0	4.0
EPA 12	4/16/91	0.14	0.066	-0.010	-0.01	0.140	-0.05	3.68	6.26	0.21	-0.001	-0.10	0.0010	16.7	-0.2	2.0	8.0
EPA 12	7/3/91	0.34	0.055	-0.010	-0.01	0.100	-0.05	2.97	3.82	0.17	-0.001	-0.10	0.0010	8.7	-0.2	-1.0	5.0
EPA 12	10/22/91	0.20	0.054	-0.010	-0.01	0.110	-0.05	3.32	3.32	0.17	-0.001	-0.10	-0.0003	5.8	-0.2	-1.0	5.0
EPA 12	1/23/92	-0.10	0.036	-0.010	-0.01	0.120	-0.05	3.02	3.70	0.17	-0.001	-0.10	0.0070	14.5	-0.2	-1.0	8.0
EPA 12	4/2/92	-0.10	0.026	-0.010	0.01	0.140	-0.05	3.31	2.40	0.16	-0.001	-0.10	-0.0003	14.3	-0.2	1.1	6.5
EPA 12	7/15/92	-0.10	0.013	-0.010	-0.01	0.130	-0.05	3.10	1.90	0.14	-0.001	-0.10	0.0070	19.3	-0.2	-1.0	6.5

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 13	7/25/89	6883.7	5.5	5.56	5,054	576	479	136	11.8	31.7	3,454	29.7	0.84	14.10	-0.00100	-0.0010	-0.005
EPA 13	10/4/89	6882.8	5.5	6.40	4,736	550	407	129	15.1	86.1	3,180	27.6	0.51	26.00	-0.00100	-0.0010	-0.005
EPA 13	1/16/90	6880.9	5.1	5.30	5,042	482	477	128	12.3	14.4	3,420	26.4	0.96	4.60	-0.00100	-0.0010	-0.005
EPA 13	4/17/90	6880.1	5.0	5.60	5,256	496	485	122	11.8	66.6	3,377	27.4	1.03	4.10	-0.00100	-0.0010	-0 005
EPA 13	7/17/90	6879.2	5.3	5.60	5,140	590	527	117	11.3	40.0	3,253	25.0	0.51	10.80	-0.00100	-0.0010	-0.005
EPA 13	10/16/90	6878.5	5.7	5.98	5,067	513	422	129	12.6	39.0	3,355	31.1	0.57	6.80	-0.00100	-0.0010	-0.005
EPA 13	1/8/91	6877.6	5.4	5.73	5,153	531	515	121	23.0	35.0	3,432	29.4	0.95	9.60	-0.00100	0.0013	-0.005
EPA 13	4/16/91	6877.2	5.3	5.53	5,255	485	457	124	12.8	13.0	3,460	49.5	1.05	5.60	-0.00100	-0.0010	-0.005
EPA 13	7/3/91	6876.3	5.2	5.66	5,240	472	473	109	10.4	25.0	3,357	23.6	1.20	0.45	-0.00100	-0.0010	-0.005
EPA 13	10/22/91	6876.1	5.2	5.75	5,409	488	466	114	11.3	39.0	3,611	28.5	0.78	-0.01	-0.00100	-0.0010	-0.005
EPA 13	1/22/92	6875.5	5.4	5.48	5,640	502	496	115	10.6	15.1	3,733	24.1	0.46	-0.01	-0.00100	-0.0010	-0.005
EPA 13	4/7/92	6875.2	5.4	6.79	5,228	629	539	149	14.1	59.9	3,924	26.7	0.92	-0.10	-0.00100	-0.0010	-0.005
EPA 13	7/15/92	6874.0	5.6	4.25	5,888	541	556	131	11.5	0.0	3,862	21.6	0.49	-0.10	-0.00100	-0.0010	-0.005
EPA 13	10/14/92	6873.5	5.8	5.25	6,201	534	572	131	11.7	29.3	4,186	32.7	0.58	-0.10	-0.00100	-0.0010	-0.005
EPA 13	1/14/93	6873.0	5.7	5.02	6,412	636	738	128	12.4	92.3	4,391	30.1	0.11	-0.10	-0.00100	-0.0010	-0.005
EPA 13	4/15/93	6872.0	5.8	5.81	5,848	469	731	155	10.0	38.0	4,315	27.6	0.64	-0.10	-0.00100	-0.0010	-0 005
EPA 13	7/20/93	6872.1	5.9	5.89	6,564	535	817	137	10.9	28.5	4,790	28.9	0.61	-0.10	-0.00100	-0 0010	-0.005
EPA 13	10/12/93	6869.8	6.2	5.38	6,064	518	715	135	10.3	21.0	4,387	30.4	0.56	-0.10	-0.00100	-0.0010	-0.005
EPA 13	1/11/94	6871.6	6.1	6.15	6,208	510	696	145	9.8	57.2	4,444	30.0	0.57	-0.10	-0.00100		
EPA 13	4/20/94	6871.6	6.0	6.00	6,116	514	686	132	9.1	79.2	4,436	30.7	1.33	-0.10	-0.00100		
EPA 13	7/26/94	6871.6	5.9	6.51	6,088	528	782	154	10.9	67.6	4,343	33.3	0.17	-0.10	-0.00100		
EPA 13	10/11/94	6870.4	5.9	6.46	6,762	506	806	162	11.0	80.5	4,784	34.7	0.97	-0.10	-0.00100		
EPA 13	1/10/95	6869.9	6.0	6.57	6,748	545	815	142	12.0	98.6	4,810	34.0	1.28	-0.10	-0.00100		
EPA 13	4/11/95	6870.2	6.2	6.13	6,718	522	714	154	11.0	94.5	4,729	40.0	1.36	-0.10	-0.00100		
EPA 13	7/11/95	6869.4	6.9	6.61	6,107	500	814	141	10.5	67.1	4,435	37.7	1.14	-0.10	-0.00100		
EPA 13	10/10/95	6869.3	6.2	6.85	6,119	485	730	154	11.2	78.1	4,340	33.6	1.12	-0.1	-0.00100		
EPA 13	1/9/96	6868.9	6.3	6.47	6,144	465	730	141	10.4	95	4,440	33.6	0.45	-0.1	-0.00100		
EPA 13	4/10/96	6867.3	6.8	7.09	6,642	544	877	148	11.1	85.8	5,040	35.9	0.53	-0.1	-0.00100		
EPA 13	7/17/96	6868.7	6.2	6.23	6,694	468	761	149	11.7	74.5	4,320	39.0	0.45	-0.1	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 13	7/25/89	0.21	0.007	-0.050	-0.01	0.470	-0.05	6.20	1.50	0.59	-0.001	-0.10	0.0060	8.9	6.4	2.7	5.3
EPA 13	10/4/89	0.42	0.012	-0.050	-0.01	0.230	-0.05	3.40	1.50	0.37	-0.001	-0.10	-0.0280	8.3	0.8	-1.0	5.9
EPA 13	1/16/90	0.19	0.021	-0.050	-0.01	0.420	0.06	6.40	0.51	0.60	0.001	-0.10	0.0090	11.9	-0.2	-1.0	5.1
EPA 13	4/17/90	-0.10	0.024	-0.050	-0.01	0.360	-0.05	5.80	0.57	0.46	-0.001	-0.10	0.0070	8.6	0.0	-1.0	6.9
EPA 13	7/17/90	0.24	0.033	-0.050	-0.01	0.250	-0.05	5.50	0.69	0.33	-0.001	-0.10	0.0078	7.0	-0.2	-1.0	5.0
EPA 13	10/16/90	0.10	0.016	-0.050	-0.01	0.220	-0.05	5.21	0.80	0.34	-0.001	-0.10	0.0117	9.3	-0.2	1.4	5.0
EPA 13	1/8/91	0.74	0.066	-0.010	-0.01	0.210	-0.05	6.62	0.81	0.39	-0.001	-0.10	0.0054	12.4	-0.2	-1.0	4.0
EPA 13	4/16/91	-0.10	0.031	-0.010	-0.01	0.330	-0.05	7.16	0.89	0.36	-0.001	-0.10	0.0040	11.3	-0.2	-1.0	3.0
EPA 13	7/3/91	1.14	0.044	-0.010	-0.01	0.320	-0.05	7.20	0.59	0.37	-0.001	-0.10	0.0029	4.2	-0.2	-1.0	3.0
EPA 13	10/22/91	0.22	0.100	-0.010	-0.01	0.270	-0.05	7.04	0.58	0.38	0.001	-0.10	0.0156	-5.2	-0.2	2.3	4.0
EPA 13	1/22/92	-0.10	0.077	-0.010	-0.01	0.230	-0.05	6.59	0.64	0.26	-0.001	-0.10	0.0040	10.4	-0.2	-1.0	7.0
EPA 13	4/7/92	0.20	0.134	-0.010	0.02	0.210	-0.05	6.56	0.80	0.30	-0.001	-0.10	0.0040	11.7	-0.2	1.3	4.3
EPA 13	7/15/92	-0.10	0.084	-0.010	-0.01	0.230	-0.05	6.33	0.83	0.22	0.001	-0.10	0.0090	15.2	-0.2	-1.0	6.1
EPA 13	10/14/92	0.58	0.175	-0.010	-0.01	0.210	-0.05	6.43	0.90	0.20	-0.001	-0.10	0.0020	13.4	-0.2	1.2	4.9
EPA 13	1/14/93	0.42	0.230	-0.010	-0.01	0.150	-0.05	6.24	0.78	0.24	-0.001	-0.10	0.0130	14.4	-0.2	-1.0	6.5
EPA 13	4/15/93	-0.10	0.186	-0.010	-0.01	0.140	-0.05	5.81	0.59	0.20	-0.001	-0.10	0.0170	10.7	-0.2	-1.0	3.5
EPA 13	7/20/93	-0.10	0.265	-0.010	-0.01	0.140	-0.05	5.65	0.73	0.18	-0.001	-0.10	0.0170	9.9	-0.2	-1.0	5.1
EPA 13	10/12/93	-0.10	0.154	-0.010	-0.01	0.110	-0.05	5.51	0.60	0.14	-0.001	-0.10	0.0240	10.9	-0.2	-1.0	6.0
EPA 13	1/11/94	-0.10	0.225	-0.010	-0.01	0.070	-0.05	5.51	0.67	0.19	-0.001	-0.10	0.0270	10.7	-0.2	-1.0	14.8
EPA 13	4/20/94	-0.10	0.262	-0.010	-0.01	0.090	-0.05	4.69	0.48	0.14	-0.001	-0.10	0.0230	15.0	-0.2	-1.0	20.1
EPA 13	7/26/94	0.66	0.199	-0.010	-0.01	0.100	-0.05	5.90	0.66	0.13	-0.001	-0.10	0.0190	19.1	-0.2	1.7	26.2
EPA 13	10/11/94	-0.10	0.192	-0.010	-0.01	0.110	-0.05	5.26	0.57	0.13	-0.001	-0.10	0.0220	12.1	-0.2	-1.0	19.5
EPA 13	1/10/95	-0.10	0.253	-0.010	-0.01	0.140	-0.05	5.88	0.82	0.17	-0.001	-0.10	0.0240	16.0	-0.2	-1.0	20.3
EPA 13	4/11/95	-0.10	0.230	-0.010	-0.01	0.060	-0.05	5.82	0.47	0.10	-0.001	-0.10	0.0220	14.3	-0.2	-1.0	19.1
EPA 13	7/11/95	-0.10	0.255	-0.010	-0.01	0.016	-0.05	1.26	-0.10	-0.05	-0.001	-0.10	0.0240	17.0	0.4	2.8	15.9
EPA 13	10/10/95	-0.10	0.225	-0.01	-0.01	0.05	-0.05	5.91	0.38	0.12	-0.001	-0.10	0.0260	6.6	-0.2	1.1	11.8
EPA 13	1/9/96	-0.10	0.227	-0.01	-0.01	-0.01	-0.05	1.19	-0.1	-0.05	-0.001	-0.10	0.0280	13.5	-0.2	-1.0	5.4
EPA 13	4/10/96	-0.10	0.295	-0.01	-0.01	0.06	-0.05	5.65	0.35	0.11	-0.001	-0.10	0.0290	14.9	-0.2	-1.0	7.6
EPA 13	7/17/96	-0.10	0.269	-0.01	-0.01	0.06	-0.05	5.94	0.41	0.12	-0.001	-0.10	0.0220	18.7	0.7	-1.0	6

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 14	7/28/89	6895.9	6.0	5.82	3,189	471	245	149	4.5	146	2,111	26.8	0.08	16.90	-0.00100	-0.0010	-0.005
EPA 14	10/8/89	6891.1	5.4	6.00	3,672	407	281	163	6.1	99.3	2,370	31.9	0.09	18.80	-0.00100	-0.0010	-0 005
EPA 14	1/17/90	6889.5	5.6	6.11	3,446	424	275	155	4.6	159	2,099	29.4	0.08	16.80	-0.00100	-0.0010	-0.005
EPA 14	4/18/90	6888.2	5.7	6.15	3,529	430	240	140	3.4	176	2,088	28.7	0.15	19.00	-0.00100	-0.0010	-0.005
EPA 14	7/12/90	6886.6	5.8	6.12	3,559	486	281	146	5.2	173	2,067	30.1	-0.05	21.20	-0.00100	-0.0010	-0.005
EPA 14	10/10/90	6886.8	5.7	6.43	3,541	380	251	153	5.9	189	2,079	33.3	0.07	20.80	-0.00100	-0.0010	-0.005
EPA 14	1/8/91	6886.5	5.7	6.35	3,499	462	266	152	22.0	185	2,222	31.8	-0.05	24.60	-0.00100	-0.0010	-0.005
EPA 14	4/16/91	6886.9	5.6	6.80	3,738	436	321	177	4.3	143	2,380	34.8	0.07	27.50	-0.00100	-0.0010	-0.005
EPA 14	7/3/91	6883.9	5.3	6.25	3,774	421	313	158	4.0	102	2,558	35.7	0.08	28.90	-0.00100	-0.0010	-0.005
EPA 14	10/22/91	6875.1	5.7	6.35	3,296	424	229	148	4.1	234	2,117	37.6	0.09	9.20	-0.00100	-0.0010	-0 005
EPA 14	1/23/92	6880.2	5.5	6.16	4,045	414	296	163	4.5	115	2,463	39.1	-0.05	14.00	-0.00100	-0.0010	-0.005
EPA 14	4/2/92	6880.2	5.4	7.09	4,058	464	338	213	6.0	126	2,607	33.6	0.18	27.40	-0.00100	-0.0010	-0.005
EPA 14	7/16/92	6870.3	6.2	6.28	3,186	393	333	183	6.3	316	2,306	30.5	0.07	23.30	-0.00100	-0.0010	-0 005
EPA 14	10/15/92	6870.6	6.1	6.38	3,753	491	276	179	6.0	159	2,332	32.8	-0.05	24.20	-0.00100	-0.0010	-0.005
EPA 14	1/14/93	6875.3	5.9	6.47	3,728	485	256	156	4.4	142	2,456	35.5	0.12	26.50	-0.00100	-0.0010	-0.005
EPA 14	4/15/93	6872.2	5.9	6.54	3,401	420	217	164	3.4	180	2,096	32.2	0.17	27.10	-0.00100	-0 0010	-0 005
EPA 14	7/20/93	6866.9	6.5	7.46	3,350	444	285	122	3.4	370	2,197	28.9	0.14	14.90	-0.00100	-0 0010	-0.005
EPA 14	10/11/93	6865.6	6.5	6.49	3,272	503	185	137	3.5	220	1,936	29.6	0.05	25.70	-0.00100	-0.0010	-0.005
EPA 14	1/11/94	6871.0	5.7	6.49	3,409	446	270	158	3.5	96.8	2,285	37.9	-0.05	31.90	-0.00100		
EPA 14	4/19/94	6868.4	6.2	6.54	2,743	450	141	144	5.0	250	1,654	27.3	0.18	16.90	-0.00100		
EPA 14	7/26/94	6866.1	6.3	7.04	2,710	505	151	115	3.6	284	1,732	25.6	0.20	9.94	-0.00100		
EPA 14	10/11/94	6866.1	6.3	7.05	3,074	500	148	146	4.6	299	1,776	26.9	0.25	23.50	-0.00100		
EPA 14	1/10/95	6867.8	6.0	6.60	3,516	545	211	154	6.6	121	2,309	35.8	0.48	33.00	-0.00100		
EPA 14	4/10/95	6867.6	6.1	6.01	4,051	511	284	160	5.6	104	2,570	43.7	0.57	40.00	-0.00100		
EPA 14	7/10/95	6863.4	6.2	7.62	2,659	500	108	124	4.6	465	1,456	26.2	0.21	18.60	-0.00100		
EPA 14	10/9/95	6863.6	6.6	7.44	2,864	510	135	118	4.9	439	1,530	25.7	0.16	22.4	-0.00100		
EPA 14	1/8/96	6861.8	6.5	7.27	2,773	525	103	120	4.7	490	1,440	26.0	-0.05	24.6	-0.00100		
EPA 14	4/9/96	6861.2	6.8	7.75	2,825	551	109	121	5.1	516	1,468	30.0	0.12	23.9	-0.00100		
EPA 14	7/17/96	6861.0	6.5	6.91	2,907	532	116	132	5.6	498	1,616	35.0	0.13	23.8	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 14	7/28/89	0.79	-0.001	-0.050	-0.01	0.040	-0.05	0.63	-0.10	0.05	-0.001	-0.10	0.0166	6.4	-0.2	-1.0	3.2
EPA 14	10/8/89	1.10	-0.001	-0.050	-0.01	0.040	-0.05	0.70	0.02	0.07	-0.001	-0.10	0.0140	5.7	-0.2	7.1	2.8
EPA 14	1/17/90	0.67	-0.001	-0.050	-0.01	0.010	-0.05	0.89	-0.10	-0.05	-0.001	-0.10	0.0190	-3.7	2.9	2.2	5.1
EPA 14	4/18/90	0.52	-0.001	-0.050	-0.01	-0.010	-0.05	0.56	-0.10	0.07	-0.001	-0.10	0.0220	4.9	-0.2	-1.0	2.4
EPA 14	7/12/90	0.68	-0.001	-0.050	-0.01	0.020	-0.05	0.61	0.13	-0.05	-0.001	-0.10	0.0223	3.3	-0.2	4.8	2.0
EPA 14	10/10/90	0.50	-0.001	-0.050	-0.01	0.050	-0.05	0.71	-0.10	0.08	-0.001	-0.10	0.0323	6.5	-0.2	-1.0	4.0
EPA 14	1/8/91	0.54	-0.001	-0.010	-0.01	0.03	-0.05	0.71	-0.10	0.08	-0.001	-0.10	0.0312	-3.4	-0.2	-1.0	2.0
EPA 14	4/16/91	0.86	-0.001	-0.010	-0.01	0.04	-0.05	0.70	-0.10	0.06	-0.001	-0.10	0.0180	-2.3	-0.2	-1.0	1.0
EPA 14	7/3/91	1.06	-0.001	-0.010	-0.01	0.05	-0.05	0.75	-0.10	0.07	-0.001	-0.10	0.0108	5.8	-0.2	-1.0	2.0
EPA 14	10/22/91	0.31	-0.001	-0.010	-0.01	0.03	-0.05	0.73	-0.10	-0.05	-0.001	-0.10	0.0332	-2.6	-0.2	1.3	2.0
EPA 14	1/23/92	1.00	-0.001	-0.010	-0.01	0.03	-0.05	0.81	-0.10	-0.05	0.001	-0.10	0.0100	3.7	-0.2	3.3	3.0
EPA 14	4/2/92	1.00	-0.001	-0.010	-0.01	0.04	-0.05	0.91	-0.10	0.06	0.015	-0.10	0.0070	-2.6	-0.2	-1.0	1.9
EPA 14	7/16/92	0.45	-0.001	-0.010	-0.01	0.02	-0.05	0.71	-0.10	-0.05	0.001	-0.10	0.0280	6.5	-0.2	-1.0	3.8
EPA 14	10/15/92	0.73	-0.001	-0.010	-0.01	0.03	-0.05	0.87	-0.10	0.07	-0.001	-0.10	0.0090	6.3	-0.2	1.7	2.6
EPA 14	1/14/93	0.59	0.002	-0.010	-0.01	0.04	-0.05	0.42	-0.10	0.11	-0.001	-0.10	0.0090	6.3	-0.2	-1.0	3.6
EPA 14	4/15/93	0.40	-0.001	-0.001	-0.01	0.03	-0.05	0.82	-0.10	-0.05	-0.001	-0.10	0.0170	6.2	-0.2	-1.0	2.1
EPA 14	7/20/93	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	0.55	0.22	-0.05	-0.001	-0.10	0.0540	6.1	-0.2	-1.0	2.9
EPA 14	10/11/93	0.40	-0.001	-0.010	-0.01	0.02	-0.05	0.74	-0.10	-0.05	0.001	-0.10	0.0230	5.1	-0.2	-1.0	6.2
EPA 14	1/11/94	0.88	-0.001	-0.010	-0.01	0.03	-0.05	1.18	-0.10	-0.05	-0.001	-0.10	0.0140	8.5	-0.2	-1.0	12.4
EPA 14	4/19/94	0.36	-0.001	-0.010	-0.01	0.06	-0.05	0.92	0.16	-0.05	-0.001	-0.10	0.0370	5.9	-0.2	-1.0	7.6
EPA 14	7/26/94	0.31	-0.001	-0.010	-0.01	0.02	-0.05	1.10	0.21	-0.05	0.011	-0.10	0.0360	-4.1	-0.2	-1.0	7.3
EPA 14	10/11/94	0.53	-0.001	-0.010	-0.01	0.05	-0.05	1.26	0.11	-0.05	-0.001	-0.10	0.0330	3.3	-0.2	1.7	3.9
EPA 14	1/10/95	1.25	-0.001	-0.010	-0.01	0.06	-0.05	2.34	-0.10	-0.05	-0.001	-0.10	0.0080	8.1	-0.2	1.1	10.3
EPA 14	4/10/95	1.68	-0.001	-0.010	-0.01	0.07	-0.05	2.59	-0.10	-0.05	-0.001	-0.10	0.0050	7.8	-0.2	-1.0	10.4
EPA 14	7/10/95	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	1.05	0.19	-0.05	-0.001	-0.10	0.0640	4.9	-0.2	-1.0	7.9
EPA 14	10/9/95	0.18	0.001	-0.01	-0.01	-0.01	-0.05	1.33	0.16	-0.05	0.003	-0.10	0.0640	-4.7	-0.2	-1.0	8.4
EPA 14	1/8/96	-0.10	-0.001	-0.01	-0.01	0.01	-0.05	1.15	-0.1	-0.05	-0.001	-0.10	0.0810	5.5	-0.2	1.8	2.6
EPA 14	4/9/96	-0.10	-0.001	-0.01	-0.01	-0.01	-0.05	1.26	0.18	-0.05	-0.001	-0.10	0.0830	5.9	-0.2	-1.0	3.9
EPA 14	7/17/96	-0.10	-0.001	-0.01	-0.01	0.02	-0.05	1.44	0.18	-0.05	-0.001	-0.10	0.0900	-4.4	-0.2	-1.0	3.5

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 15	7/29/89	6890.2	6.5	6.35	2,567	432	145	119	4.8	288	1,487	18.4	0.09	13.2	-0.00100	-0.0010	-0.005
EPA 15	10/8/89	6883.5	6.0	6.58	2,244	380	120	110	7.0	302	1,319	15.0	0.10	7.4	-0.00100	-0.0010	-0.005
EPA 15	1/16/90	6881.5	5.9	6.48	2,524	369	139	116	5.8	302	1,499	18.3	0.19	5.9	-0.00100	-0.0010	-0.005
EPA 15	4/18/90	6880.3	6.1	6.56	2,532	381	140	117	5.6	322	1,419	17.6	0.21	7.8	-0.00100	-0.0010	-0.005
EPA 15	7/10/90	6879.1	6.2	6.60	2,586	392	146	113	5.1	311	1,475	18.6	0.07	8.9	-0.00100	-0.0010	-0.005
EPA 15	10/10/90	6879.8	6.4	6.75	2,548	374	143	118	6.0	303	1,412	18.5	0.11	9.6	-0.00100	-0.0010	-0.005
EPA 15	1/10/91	6878.8	6.3	7.05	2,359	397	142	113	7.1	316	1,347	19.1	0.07	10.4	-0.00100	-0.0010	-0.005
EPA 15	4/16/91	6879.2	6.2	7.08	2,429	382	135	130	6.1	336	1,360	18.8	0.10	16.1	-0.00100	-0.0010	-0.005
EPA 15	7/3/91	6876.0	6.4	6.86	2,548	384	149	114	5.2	325	1,565	21.9	0.11	15.6	-0.00100	-0.0010	-0.005
EPA 15	10/23/91	6871.1	6.2	7.03	2,873	401	176	134	6.0	278	1,789	31.6	0.44	24.8	-0.00100	-0.0010	-0.005
EPA 15	1/23/92	6873.5	6.1	6.93	2,603	368	175	122	6.3	292	1,588	21.2	0.19	11.1	-0.00100	-0.0010	-0.005
EPA 15	4/2/92	6873.8	6.1	7.60	2,809	413	209	166	8.4	312	1,753	23.7	0.31	15.0	-0.00100	-0.0010	-0.005
EPA 15	7/16/92	6866.9	6.1	6.84	3,214	462	262	156	7.8	246	2,208	32.5	0.37	12.7	-0.00100	-0.0010	-0.005
EPA 15	10/15/92	6866.2	6.0	6.61	4,002	525	263	167	10.0	237	2,451	32.6	0.27	17.3	-0.00100	-0.0010	-0.005
EPA 15	1/13/93	6869.0	6.2	6.75	2,950	459	181	124	8.2	287	1,748	26.8	0.19	11.0	-0.00100	-0.0010	-0.005
EPA 15	4/15/93	6869.4	6.3	6.94	2,816	471	150	132	5.0	322	1,666	23.6	0.15	13.3	-0.00100	-0.0010	-0.005
EPA 15	7/20/93	6864.6	6.3	6.93	3,326	542	240	142	8.2	287	2,133	30.8	0.06	27.5	-0.00100	-0.0010	-0 005
EPA 15	10/12/93	6860.7	6.4	6.34	4,110	578	306	158	9.0	212	2,766	41.3	1.27	17.0	-0.00100	-0.0010	-0.005
EPA 15	1/11/94	6864.2	6.5	7.00	3,001	499	187	128	5.7	288	1,774	28.5	-0.05	12.8	-0.00100		
EPA 15	4/19/94	6863.9	6.4	6.63	2,537	411	137	125	5.8	296	1,537	22.6	0.19	9.5	-0.00100		
EPA 15	7/26/94	6862.2	6.2	7.43	4,123	627	284	139	7.1	265	2,390	31.0	0.46	33.2	-0.00100		
EPA 15	10/11/94	6861.6	6.1	6.94	4,502	640	342	163	9.6	214	3,049	39.0	3.12	31.5	-0.00100		
EPA 15	1/10/95	6861.7	6.1	7.09	4,144	665	204	133	8.5	244	2,567	36.5	1.00	37.2	-0.00100		
EPA 15	4/11/95	6861.9	6.4	6.51	4,187	674	302	136	7.6	262	2,542	19.9	1.09	44.4	-0.00100		
EPA 15	7/11/95	6860.3	5.6	5.87	4,169	585	359	144	9.9	24.5	2,833	44.5	0.78	29.5	-0.00100		
EPA 15	10/10/95	6859.7	5.5	5.82	4,153	585	370	162	10.6	23.2	2,961	40.0	5.86	24.3	0.00156		
EPA 15	1/8/96	6858.5	5.3														

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 15	7/29/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	1.30	0.50	-0.05	0.001	-0.10	0.0408	7.4	-0.2	1.3	2.2
EPA 15	10/8/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	1.00	-0.43	-0.05	0.001	-0.10	0.0660	7.6	57.0	1.1	69.0
EPA 15	1/16/90	-0.10	-0.001	-0.050	-0.01	0.01	-0.05	1.60	0.37	-0.05	0.001	-0.10	0.0370	4.9	0.2	-1.0	1.7
EPA 15	4/18/90	-0.10	-0.001	-0.050	-0.01	-0.01	0.08	1.50	0.42	-0.05	0.001	-0.10	0.0390	6.4	-0.2	-1.0	2.9
EPA 15	7/10/90	-0.10	-0.001	-0.050	-0.01	0.04	-0.05	1.39	0.34	-0.05	0.001	-0.10	0.0740	4.4	-0.2	-1.0	2.8
EPA 15	10/10/90	-0.10	-0.001	-0.050	-0.01	0.03	-0.05	1.45	0.30	-0.05	0.001	-0.10	0.0618	3.2	-0.2	-1.0	2.0
EPA 15	1/10/91	-0.10	-0.001	-0.050	-0.01	0.02	-0.05	1.19	0.33	-0.05	0.001	-0.10	0.0554	3.5	-0.2	-1.0	2.1
EPA 15	4/16/91	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	1.15	0.43	-0.05	0.001	-0.10	0.0780	-3.9	-0.2	-1.0	3.0
EPA 15	7/3/91	-0.10	-0.001	-0.010	-0.01	0.03	-0.05	1.55	0.42	-0.05	-0.001	-0.10	0.1280	6.0	-0.2	-1.0	2.0
EPA 15	10/23/91	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	2.06	0.34	-0.05	0.001	-0.10	0.1015	8.4	-0.2	-1.0	-1.0
EPA 15	1/23/92	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	2.39	-0.56	0.07	-0.001	-0.10	0.0650	3.4	-0.2	1.4	2.0
EPA 15	4/2/92	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	2.24	0.58	-0.05	0.001	-0.10	0.0660	6.1	-0.2	-1.0	2.1
EPA 15	7/16/92	-0.10	0.002	-0.010	-0.01	0.02	-0.05	2.98	0.35	-0.05	-0.001	-0.10	0.0340	13.4	-0.2	-1.0	4.9
EPA 15	10/15/92	-0.10	-0.003	-0.010	-0.01	0.02	-0.05	3.68	0.59	0.06	-0.001	-0.10	0.0140	8.8	-0.2	-1.0	5.2
EPA 15	1/13/93	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	2.56	0.72	-0.05	-0.001	-0.10	0.0640	6.5	-0.2	-1.0	2.7
EPA 15	4/15/93	-0.10	0.001	-0.010	-0.01	0.03	-0.05	1.97	0.62	-0.05	-0.001	-0.10	0.0990	6.1	-0.2	-1.0	2.0
EPA 15	7/20/93	-0.10	0.001	-0.010	-0.01	0.02	-0.05	2.82	1.13	-0.05	0.002	-0.10	0.0610	7.9	-0.2	-1.0	3.6
EPA 15	10/12/93	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	4.18	-0.10	-0.05	0.001	-0.10	0.0300	11.9	-0.2	1.4	8.0
EPA 15	1/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.21	1.21	-0.05	-0.001	-0.10	0.0740	8.5	-0.2	-1.0	12.1
EPA 15	4/19/94	-0.10	0.002	-0.010	-0.01	0.05	-0.05	1.16	1.20	-0.05	0.001	-0.10	0.1210	8.1	-0.2	-1.0	10.8
EPA 15	7/26/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.82	0.93	-0.05	0.009	-0.10	0.0500	12.8	-0.2	1.8	17.1
EPA 15	10/11/94	0.30	-0.001	-0.010	-0.01	0.07	-0.05	4.42	0.75	-0.05	-0.001	-0.10	0.0290	12.2	-0.2	3.8	14.7
EPA 15	1/10/95	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	3.08	0.81	-0.05	-0.001	-0.10	0.0450	9.8	-0.2	-1.0	11.9
EPA 15	4/11/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.08	0.67	-0.05	-0.001	-0.10	0.0380	9.9	-0.2	-1.0	12.7
EPA 15	7/11/95	5.65	-0.001	-0.010	-0.01	0.20	-0.05	7.18	0.65	0.19	-0.001	-0.10	0.0120	33.8	-0.2	-1.0	29.5
EPA 15	10/10/95	5.67	0.001	-0.01	-0.01	0.17	-0.05	7.13	1.05	0.16	0.01	-0.10	0.0087	20.7	-0.2	-1.0	19.8
EPA 15	1/8/96																

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 17	7/20/89	6884.4	6.4	6.11	6,709	501	785	167	13.3	159	4,674	35.6	1.22	0.13	-0.00100	-0.0010	-0.005
EPA 17	10/8/89	6887.0	6.4	6.50	6,714	491	829	160	12.0	154	4,526	35.3	0.59	0.06	-0.00100	-0.0010	-0.005
EPA 17	1/10/90	6886.3	6.3	6.48	6,822	491	844	158	13.1	162	4,440	34.3	0.57	0.14	-0.00100	-0.0010	-0.005
EPA 17	4/10/90	6886.2	6.3	6.30	6,855	495	830	153	12.4	151	4,333	33.9	0.67	0.21	-0.00100	-0.0010	-0.005
EPA 17	7/10/90	6886.0	6.1	6.50	6,930	493	807	154	13.8	159	4,467	33.6	0.29	0.53	-0.00100	-0.0010	-0.005
EPA 17	10/9/90	6885.9	6.3	6.77	6,854	465	812	162	13.4	135	4,232	32.2	0.22	0.07	-0.00100	-0.0010	-0.005
EPA 17	1/11/91	6885.6	6.2	6.30	6,678	511	795	160	14.6	122	4,489	36.9	0.57	0.14	-0.00100	-0.0010	-0 005
EPA 17	4/10/91	6885.4	6.3	6.90	6,751	545	758	156	12.3	143	4,007	34.8	0.45	0.11	-0.00100	-0.0010	-0.005
EPA 17	7/9/91	6885.1	6.3	6.46	6,742	563	712	139	10.9	112	4,385	33.5	0.68	-0.01	-0.00100	-0.0010	-0.005
EPA 17	10/17/91	6885.0	6.2	6.86	6,749	514	676	155	14.1	159	4,151	33.5	0.33	0.08	-0.00100	-0.0010	-0 005
EPA 17	1/21/92	6884.7	6.3	6.66	6,718	473	769	145	11.5	159	4,556	37.5	0.33	-0.10	-0.00100	-0.0010	-0.005
EPA 17	4/14/92	6884.5	6.4	7.72	5,908	441	528	157	12.5	255	3,632	34.3	0.50	-0.10	-0.00100	-0.0010	-0.005

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 17	7/20/89	0.18	0.224	-0.050	-0.01	0.08	-0.05	6.90	1.20	0.24	-0.001	-0.10	0.0530	6.8	18.4	1.2	14.4
EPA 17	10/8/89	-0.10	0.253	-0.050	-0.01	0.07	-0.05	6.70	0.83	0.21	-0.001	-0.10	0.0760	3.8	-0.2	-1.0	3.0
EPA 17	1/10/90	0.16	0.133	-0.050	-0.01	0.12	-0.05	5.90	0.46	0.24	-0.001	-0.10	0.0460	5.0	-0.2	-1.0	2.3
EPA 17	4/10/90	-0.10	0.140	-0.050	0.02	0.13		6.70	0.32	0.17	-0.001	-0.10	0.0480	5.9	-0.2	-1.0	3.4
EPA 17	7/10/90	0.14	0.019	-0.050	-0.01	0.07	-0.05	6.77	0.22	0.25	-0.001	-0.10	0.0450	6.2	-0.2	-1.0	2.9
EPA 17	10/9/90	-0.10	0.054	-0.050	-0.01	0.09	-0.05	6.63	0.20	0.23	-0.001	-0.10	0.0332	9.8	-0.2	-1.0	2.0
EPA 17	1/11/91	-0.10	0.022	-0.010	-0.01	0.12	-0.05	7.50	-0.10	0.29	-0.001	-0.10	0.0134	7.3	-0.2	-1.0	3.8
EPA 17	4/10/91	0.36	0.007	-0.010	-0.01	0.12	-0.05	6.60	0.12	0.29	-0.001	-0.10	0.0147	-4.2	-0.2	-1.0	3.0
EPA 17	7/9/91	0.26	0.002	-0.010	-0.01	0.08	-0.05	6.15	-0.10	0.17	-0.001	-0.10	0.0151	-7.1	-0.2	-1.0	2.0
EPA 17	10/17/91	0.13	0.003	-0.010	-0.01	0.09	-0.05	5.98	-0.10	0.22	-0.001	-0.10	0.0132	-3.0	-0.2	-1.0	2.0
EPA 17	1/21/92	-0.10	0.005	-0.010	-0.01	0.08	-0.05	5.42	0.10	0.17	0.001	-0.10	0.0230	-2.3	-0.2	1.2	1.0
EPA 17	4/14/92	-0.10	0.022	-0.010	-0.01	0.05	-0.05	5.06	0.37	0.15	0.002	-0.10	0.0410	9.5	-0.2	-1.0	1.2

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250.0	NA	30.0	NA	NA	NA
EPA 18*	7/25/89	6884.4	5.7	5.46	5,818	543	608	132	11.6	44.0	3,974	27.1	0.46	0.08	-0.00100	-0.0010	-0.005
EPA 18*	10/4/89	6884.1	5.3	5.97	5,742	513	604	113	12.6	49.0	3,746	27.5	0.43	0.01	-0.00100	-0.0010	-0.005
EPA 18*	1/16/90	6883.3	5.2	5.46	5,514	468	549	123	11.1	19.5	3,654	25.4	0.50	0.06	-0.00100	-0.0010	-0.005
EPA 18*	4/17/90	6882.7	5.2	5.26	5,585	464	520	122	10.5	10.2	3,582	27.0	0.49	0.16	-0.00100	-0.0010	-0.005
EPA 18*	7/17/90	6881.9	5.4	5.68	5,902	543	608	124	31.8	31.5	3,513	26.4	0.27	0.07	-0.00100	-0.0010	-0.005
EPA 18*	10/16/90	6881.3	5.4	5.93	5,925	508	588	139	11.0	26.0	3,880	32.2	0.39	0.04	-0.00100	-0.0010	-0.005
EPA 18*	1/8/91	6880.6	5.1	5.25	5,905	518	647	129	18.0	12.0	3,917	28.3	0.53	-0.01	-0.00100	-0.0010	-0.005
EPA 18*	4/16/91	6880.3	5.0	5.50	5,946	551	712	144	10.6	10.0	3,916	34.1	0.48	-0.01	-0.00100	-0.0010	-0.005
EPA 18*	7/3/91	6879.9	5.3	5.97	6,159	577	698	129	9.4	36.0	4,215	15.8	0.64	0.01	-0.00100	-0.0010	-0.005
EPA 18*	10/22/91	6879.6	5.4	5.81	6,202	484	722	139	10.6	69.0	4,235	38.3	0.61	0.02	-0.00100	-0.0010	-0.005
EPA 18*	1/22/92	6879.0	5.6	6.00	6,396	484	657	135	10.4	36.8	4,267	29.4	0.61	-0.01	-0.00100	-0.0010	-0.005
EPA 18*	4/2/92	6878.8	5.5	7.16	5,799	508	660	167	13.1	75.1	4,351	38.3	0.67	-0.01	-0.00100	-0.0010	-0.005
EPA 18*	7/15/92	6877.7	5.5	6.09	6,375	492	686	131	11.5	8.0	4,196	29.7	0.25	0.10	-0.00100	-0.0010	-0.005
EPA 18*	10/14/92	6877.2	5.3	5.38	6,100	480	624	132	11.3	12.2	4,126	30.5	0.32	-0.10	-0.00100	-0.0010	-0.005
EPA 18*	1/14/93	6877.9	5.2	5.74	5,947	455	609	137	9.9	16.8	4,187	30.9	0.69	-0.10	-0.00100	-0.0010	-0.005
EPA 18*	4/15/93	6877.8	5.3	5.79	6,132	414	694	152	9.8	18.1	3,999	31.2	0 51	0.20	-0.00100	-0.0010	-0 005
EPA 18*	7/20/93	6876.5	5.3	5.75	5,982	489	705	147	10.4	12.3	4,215	31.9	0.32	-0.10	-0.00100	-0.0010	-0.005
EPA 18*	10/12/93	6873.8	5.8	5.44	5,825	473	690	135	10.5	18.0	4,264	28.9	0.39	-0.10	-0.00100	-0.0010	-0.005
EPA 18*	1/11/94	6875.6	5.7	6.22	6,038	453	707	134	10.2	20.3	4,228	29.5	0.46	-0.10	-0.00100		
EPA 18*	4/20/94	6874.9	5.5	6.00	5,622	458	683	125	9.8	15.3	4,196	33.0	1.09	-0.10	-0.00100		
EPA 18*	7/26/94	6875.9	5.7	6.69	5,618	525	682	149	11.3	17.7	4,106	30.7	0.46	-0.10	-0.00100		
EPA 18*	10/11/94	6874.5	5.8	6.55	6,374	456	764	157	11.4	22.4	4,604	33.7	0.75	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE C.1

ZONE 3 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.00	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 18*	7/25/89	-0.10	0.008	-0.050	-0.01	0.19	-0.05	6.70	0.05	0.23	-0.001	-0.10	0.0310	12.6	6.1	-1.0	8.0
EPA 18*	10/4/89	-0.10	0.006	-0.050	-0.01	0.21	-0.05	7.00	-0.01	0.27	-0.001	-0.10	0.0370	12.5	0.3	2.1	6.2
EPA 18*	1/16/90	-0.10	0.004	-0.050	-0.01	0.20	-0.05	7.50	-0.10	0.30	-0.001	-0.10	0.0190	12.2	0.7	-1.0	5.3
EPA 18*	4/17/90	-0.10	0.002	-0.050	-0.01	0.20	-0.05	6.30	-0.10	0.27	-0.001	-0.10	0.0190	12.5	-0.2	1.2	7.6
EPA 18*	7/17/90	0.20	0.012	-0.050	-0.01	0.17	-0.05	6.09	0.12	0.28	-0.001	-0.10	0.0824	7.6	-0.2	-1.0	4.0
EPA 18*	10/16/90	0.10	0.015	-0.050	-0.01	0.19	-0.05	6.49	-0.10	0.27	-0.001	-0.10	0.0577	18.4	-0.2	1.4	6.0
EPA 18*	1/8/91	0.61	0.001	-0.010	-0.01	0.21	-0.05	6.89	-0.10	0.27	-0.001	-0.10	0.0357	14.0	-0.2	-1.0	6.0
EPA 18*	4/16/91	-0.10	0.001	-0.010	-0.01	0.17	-0.05	6.13	-0.10	0.22	-0.001	-0.10	0.0310	15.1	-0.2	2.5	6.0
EPA 18*	7/3/91	0.66	0.024	-0.010	-0.01	0.14	-0.05	6.62	0.10	0.20	-0.001	-0.10	0.0700	12.4	-0.2	-1.0	4.0
EPA 18*	10/22/91	0.34	0.019	-0.010	-0.01	0.13	-0.05	7.44	-0.10	0.21	-0.001	-0.10	0.0005	-5.6	-0.2	-1.0	5.0
EPA 18*	1/22/92	0.27	0.014	-0.010	-0.01	0.10	-0.05	6.15	-0.10	0.17	-0.001	-0.10	0.0860	14.7	-0.2	-1.0	8.0
EPA 18*	4/2/92	-0.10	0.014	-0.010	-0.01	0.13	-0.05	7.16	0.10	0.26	-0.001	-0.10	0.0780	15.2	-0.2	-1.0	4.7
EPA 18*	7/15/92	-0.10	0.003	-0.010	-0.01	0.12	-0.05	6.45	-0.10	0.19	-0.001	-0.10	0.0640	14.1	-0.2	1.0	5.0
EPA 18*	10/14/92	0.18	0.002	-0.010	-0.01	0.15	-0.05	5.97	-0.10	0.24	-0.001	-0.10	0.0810	15.7	-0.2	1.8	5.8
EPA 18*	1/14/93	-0.10	-0.001	-0.010	-0.01	0.16	-0.05	7.66	-0.10	0.32	-0.001	-0.10	0.0380	18.1	-0.2	-1.0	6.8
EPA 18*	4/15/93	-0.10	0.001	-0.010	-0.01	0.16	-0.05	6.91	-0.10	0.26	-0.001	-0.10	0.0580	13.1	-0.2	-1.0	4.5
EPA 18*	7/20/93	-0.10	-0.001	-0.010	-0.01	0.18	-0.05	6.51	-0.10	0.31	-0.001	-0.10	0.0450	19.0	-0.2	-1.0	7.9
EPA 18*	10/12/93	-0.10	-0.001	-0.010	-0.01	0.14	-0.05	6.57	-0.10	0.24	-0.001	-0.10	0.0580	14.8	-0.2	1.8	7.0
EPA 18*	1/11/94	-0.10	-0.001	-0.010	-0.01	0.12	-0.05	6.70	-0.10	0.28	-0.001	-0.10	0.0410	18.5	-0.2	-1.0	25.6
EPA 18*	4/20/94	-0.10	-0.001	-0.010	-0.01	0.12	-0.05	5.69	-0.10	0.27	-0.001	-0.10	0.0230	11.9	-0.2	-1.0	15.5
EPA 18*	7/26/94	-0.10	-0.001	-0.010	-0.01	0.15	-0.05	6.64	-0.10	0.23	-0.001	-0.10	0.0120	19.5	-0.2	-1.0	26.4
EPA 18*	10/11/94	-0.10	-0.001	-0.010	-0.01	0.08	-0.05	5.30	-0.10	0.16	-0.001	-0.10	0.0080	10.3	-0.2	3.4	12.7

Refer to page 1 for explanatory notes

APPENDIX C

ZONE 1 MONITORING DATA

Remedial action in Zone 1 consisted of dewatering Borrow Pit No. 2, which was the source of tailings seepage into Zone 1, plus continued operation of the East and North Cross-Dike Pump-Back Wells. Dewatering of Borrow Pit No. 2 was completed in April 1989. The pump-back wells were operated until September 1990 when they were replaced by the Revised East System consisting of Wells 615, 616, 617, and EPA 7. The Revised East System has been operated continuously since 1990.

Remedial action has been monitored by measurement of ground water levels and ground water sampling and analyses at 13 Zone 1 monitoring wells (Wells 515A, 516A, 604, 614, 619, EPA 2, EPA 4, EPA 5, EPA 7, EPA 8, 141, 142, and 143). Table D.1 presents the quarterly water level and water quality data for the monitoring wells from the second quarter 1989, when the borrow pit was dewatered, through the third quarter 1996. Monitoring Well EPA 7 was used as an extraction well from September 1990 until October 1994; consequently, water level data for this well are available only for the time prior to its conversion to an extraction well, during times when the pump was shut off for maintenance, and after October 1994. The 1996 laboratory analytical data for the Zone 1 Monitoring Wells are presented at the end of this appendix.

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Notes:

1. NRC standard as listed in License Condition 30, Part B.
2. EPA standard as listed in Table 2, "Contaminant-Specific Groundwater ARARs" of the ROD (EPA, 1988c). Recommendations have been made for revising EPA standards for TDS, NO_3 and SO_4.
3. NA - Not applicable.
4. "-" (Minus sign) indicates that the concentration is less than the laboratory limits of detection. A minus sign for combined Ra-226 and Ra-228 indicates that at least one of these constituents was less than the laboratory limits of detection, which are 0.2 and 1.0 pCi/l, respectively.
5. All values that exceed the NRC and/or EPA standards are shaded.
6. Gross alpha value excludes contribution from radon and uranium.
7. "*" (Asterisk) indicates a Point of Compliance well.

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0141	4/10/89	6765.2	7.8	7.75	896	18.9	8.4	290	3.2	242	459	17.2	0.45	0.13	-0.00100	-0.001	-0.005
0141	7/22/89	6765.1	7.9	7.90	938	21.0	8.0	316	3.7	244	540	17.1	0.42	0.06	-0.00100	-0.001	-0.005
0141	10/12/89	6765.5	7.7	8.00	938	19.1	8.4	306	4.6	257	482	21.0	0.37	0.10	-0.00100	-0.001	-0.005
0141	1/3/90	6765.2	7.9	7.60	994	23.9	11.0	306	3.4	262	497	24.8	0.72	0.42	-0.00100	-0.001	-0.005
0141	4/3/90	6765.2	7.9	7.80	1,024	24.0	9.8	304	3.6	262	458	32.9	0.76	0.44	-0.00100	-0.001	-0.005
0141	7/2/90	6764.9	7.6	7.72	1,036	25.2	11.0	321	3.9	257	487	37.2	0.10	0.26	-0.00100	-0.001	-0.005
0141	10/2/90	6764.9	7.6	7.65	1,023	21.5	10.1	305	3.7	243	509	42.0	0.21	0.29	-0.00100	-0.001	-0.005
0141	1/16/91	6764.9	7.5	7.89	1,051	25.6	11.9	337	5.8	248	534	65.7	0.30	0.35	-0.00100	-0.001	-0.005
0141	4/3/91	6764.9	7.7	8.10	1,070	23.3	10.6	311	3.1	254	530	41.0	0.32	0.18	-0.00100	-0.001	-0.005
0141	7/16/91	6764.6	7.6	7.54	1,059	23.1	10.1	305	3.4	248	550	43.5	0.40	0.17	-0.00100	-0.001	-0.005
0141	10/14/91	6766.7	7.5	7.99	1,133	22.7	11.3	325	3.2	195	539	105.0	0.61	0.26	-0.00100	-0.001	-0.005
0141	1/14/92	6770.8	7.4	7.62	1,042	25.7	13.1	321	3.5	249	525	88.2	1.87	-0.01	-0.00100	-0.001	-0.005
0141	4/7/92	6772.1	7.4	7.46	1,123	25.8	13.9	379	3.8	326	511	116.0	0.46	-0.10	-0.00100	-0.001	-0.005
0141	7/7/92	6772.8	7.5	7.80	1,175	26.3	13.6	414	4.7	239	506	118.0	0.68	-0.10	-0.00100	-0.001	-0.005
0141	10/6/92	6774.2	7.6	7.61	1,141	31.8	13.6	360	3.4	246	525	108.0	0.23	-0.10	-0.00100	-0.001	-0.005
0141	1/5/93	6775.1	7.7	7.93	1370	34.1	14.3	420	4.6	248	638	68.9	0.13	-0.10	-0.00100	-0.001	
0141	4/6/93	6775.9	7.8	8.18	1100	23.4	10.0	371	2.5	244	495	91.3	0.40	-0.10	-0.00100	-0.001	
0141	7/13/93	6776.5	7.7	7.12	1071	23.8	11.1	343	2.9	257	575	79.1	-0.05	-0.10	-0.00100	-0.001	
0141	10/6/93	6776.8	7.8	7.31	1105	27.2	12.0	304	2.7	257	541	64.0	0.47	0.16	-0.00100	-0.001	
0141	1/5/94	6775.7	7.7	7.78	1,101	28.7	12.8	313	2.9	237	550	71.0	0.39	0.73	-0.00100		
0141	4/13/94	6778.3	7.7	7.76	1,017	35.1	11.7	301	2.4	234	499	49.4	0.18	-0.10	-0.00100		
0141	7/20/94	6778.7	7.7	7.34	1,010	33.3	10.7	312	2.9	240	548	42.8	0.34	0.13	-0.00100		
0141	10/4/94	6779.2	7.6	8.02	1,076	25.9	11.5	342	3.4	260	537	43.2	0.15	-0.10	-0.00100		
0141	1/4/95	6779.6	7.5	7.93	995	26.0	11.0	321	3.3	257	493	39.8	0.42	-0.10	-0.00100		
0141	4/5/95	6780.1	7.6	8.15	1,038	25.0	12.6	291	3.1	254	507	28.2	0.62	5.19	-0.00100		
0141	7/6/95	6780.3	7.6	8.21	1,073	28.5	13.8	306	3.2	256	528	30.4	0.24	-0.10	-0.00100		
0141	10/3/95	6780.5	7.2	8.30	1038	22.8	10.0	297	3.0	261	485	25.9	0.46	-0.10	-0.00100		
0141	1/3/96	6781.0	7.2	8.24	1097	26.6	12.1	319	3.2	255	554	15.4	0.08	0.32	-0.00100		
0141	4/2/96	6781.3	7.2	8.36	1008	25.5	11.4	283	3.3	259	526	29.1	0.39	0.16	-0.00100		
0141	7/7/96	6781.5	8.4	7.75	1034	26.2	11.1	288	3.0	254	481	23.2	0.36	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0141	4/10/89		0.003	-0.050	-0.01		-0.05	0.07		-0.05	-0.001	-0.10	0.0087	-1.2	-0.2	1.8	2.7
0141	7/22/89	-0.10	0.003	-0.050	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	-0.001	-0.10	0.0069	-3.1	0.6	-1.0	2.0
0141	10/12/89	-0.10	0.003	-0.050	-0.01	-0.01	-0.05	0.05	0.02	-0.05	0.001	-0.10	0.0190	7.5	-0.2	1.2	7.1
0141	1/3/90	-0.10	0.002	-0.050	-0.01	-0.01	-0.05	0.07	0.02	-0.05	-0.001	-0.10	0.0140	-1.6	-0.2	2.0	1.7
0141	4/3/90	-0.10	0.003	-0.050	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	0.001	-0.10	0.0080	-1.6	1.6	-1.0	2.5
0141	7/2/90	-0.10	0.007	-0.050	-0.01	-0.01	-0.05	0.18	-0.10	-0.05	0.001	-0.10	0.0078	-1.5	-0.2	-1.0	-1.0
0141	10/2/90	-0.10	0.006	-0.050	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	0.001	-0.10	0.0070	-1.5	-0.2	-1.0	-1.0
0141	1/16/91	-0.10	0.002	-0.010	-0.01	0.01	-0.05	0.14	-0.10	-0.05	-0.001	-0.10	0.0065	-1.2	-0.2	-1.0	-1.0
0141	4/3/91	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	-0.001	-0.10	0.0050	-1.4	-0.2	-1.0	-1.0
0141	7/16/91	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	-0.001	-0.10	0.0020	-1.2	-0.2	2.0	-1.0
0141	10/14/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	0.001	-0.10	0.0220	-1.8	-0.2	-1.0	-1.0
0141	1/14/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	0.002	-0.10	0.0050	12.1	-0.2	-1.0	9.0
0141	4/7/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	-0.001	-0.10	0.0020	-1.2	-0.2	-1.0	-1.0
0141	7/7/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.001	-0.10	0.0050	3.8	-0.2	-1.0	2.5
0141	10/6/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.20	-0.10	-0.05	0.001	-0.10	0.0100	-1.2	-0.2	-1.0	-1.0
0141	1/5/93	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.41	-0.10	-0.05	0.007	-0.10	0.0110	-0.6	-0.2	-1.0	-1.0
0141	4/6/93	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	-0.001	-0.10	0.0010	-0.7	-0.2	-1.0	-1.0
0141	7/13/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	-0.001	-0.10	0.0050	2.3	-0.2	1.0	-1.0
0141	10/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.22	-0.10	-0.05	-0.001	-0.10	0.0060	-0.4	-0.2	-1.0	-1.0
0141	1/5/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	-0.001	-0.10	0.0050	-1.4	-0.2	6.2	-1.0
0141	4/13/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	-0.001	-0.10	0.0080	-1.5	-0.2	1.7	-1.0
0141	7/20/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.20	-0.10	-0.05	0.001	-0.10	0.0040	-2.5	-0.2	-1.0	1.7
0141	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.26	-0.10	-0.05	-0.001	-0.10	0.0030	-1.5	-0.2	-1.0	-1.0
0141	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.29	-0.10	-0.05	-0.001	-0.10	0.0160	-1.7	-0.2	-1.0	-1.0
0141	4/5/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	-0.001	-0.10	0.0040	-1.4	-0.2	-1.0	-1.0
0141	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.30	-0.10	-0.05	0.001	-0.10	0.0033	-2.0	-0.2	-1.0	-1.0
0141	10/3/95	-0.10	0.004	-0.010	-0.01	-0.01	-0.05	0.14	-0.1	-0.05	-0.001	-0.10	0.0034	-1.2	-0.2	-1.0	-1.0
0141	1/3/96	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	-0.01	-0.1	-0.05	-0.001	-0.10	0.0006	1.7	0.6	-1.0	1.1
0141	4/2/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.1	-0.1	-0.05	-0.001	-0.10	0.0016	-1.2	-0.2	-1.0	-1.0
0141	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.13	-0.1	-0.05	-0.001	-0.10	0.0039	-1.2	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0142	4/10/89	6759.8	7.5	7.56	1,064	40.3	17.7	294	4.0	262	567	16.7	0.44	0.26	-0.00100	-0.001	-0.005
0142	7/22/89	6759.6	7.8	7.80	1,129	37.0	17.0	332	4.4	244	599	17.7	0.45	0.19	-0.00100	-0.001	-0 005
0142	10/12/89	6759.8	7.7	7.87	1,096	27.9	13.4	333	5.1	247	580	19.2	0.20	0.38	-0.00100	-0.001	-0.005
0142	1/3/90	6759.8	7.6	7.72	1,130	30.6	13.9	332	3.9	245	579	20.6	0.34	0.40	-0.00100	-0.001	-0.005
0142	4/3/90	6759.6	7.8	7.92	1,265	47.4	23.1	318	4.4	281	648	18 5	0.71	0.34	-0.00100	-0.001	-0.005
0142	7/2/90	6759.4	7.6	8.00	1,106	32.2	13.6	317	4.0	253	564	18.1	0.17	0.31	-0.00100	-0.001	-0 005
0142	10/2/90	6759.6	7.7	7.85	1,116	22.8	11.0	310	3.4	234	590	18.8	0.09	0.33	-0.00100	-0.001	-0.005
0142	1/3/91	6759.5	7.7	7.10	1,113	29.0	14.3	318	11.9	244	607	18.0	0.36	0.33	-0.00100	-0.001	-0.005
0142	4/9/91	6759.8	7.7	8.22	1,015	31.1	13.7	308	3.9	250	588	17.4	0.21	0.25	-0.00100	-0.001	-0.005
0142	7/16/91	6759.6	7.7	7.88	1,085	35.2	16.8	286	3.7	271	643	17.2	0.34	0.21	-0.00100	-0.001	-0 005
0142	10/14/91	6761.0	7.6	8.07	1,110	31.6	14.8	297	3.4	271	590	15.3	0.30	0.14	-0.00100	-0.001	-0 005
0142	1/14/92	6764.1	7.4	7.85	1,071	27.6	13.8	296	3.3	259	595	16.4	0.95	0.37	-0.00100	-0.001	-0.005
0142	4/7/92	6865.7	7.5	8.19	1,023	28.8	15.6	335	4.5	256	579	17.0	0.25	-0.10	-0.00100	-0.001	-0.005
0142	7/7/92		7.6	8.17	1,101	35.5	19.0	355	4.8	263	588	16.0	0.99	-0.10	-0.00100	-0.001	-0.005
0142	10/6/92	6767.9	7.8	8.06	1,100	37.0	17.8	332	3.2	260	588	16.8	0.08	-0.10	-0.00100	-0.001	-0.005
0142	1/5/93	6769.0	7.8	8.14	1,019	27.1	11.9	279	3.9	256	542	17.4	0.31	-0.10	-0.00100	-0 001	
0142	4/6/93	6770.0	7.8	8.08	1,084	31.8	14.8	326	2.6	254	560	16 1	0.31	-0.10	-0.00100	-0.001	
0142	7/13/93	6770.5	7.8	7.09	1,066	33.5	15.4	293	2.9	264	597	17 2	-0.05	-0.10	-0.00100	-0.001	
0142	10/6/93	6771.0	7.8	7.60	1,074	32.3	13.9	295	2.6	255	566	15.9	0.13	0.17	-0.00100	-0.001	
0142	1/5/94	6770.7	7.8	8.03	1,056	33.7	15.4	307	2.8	246	563	16.4	0.31	0.10	-0.00100		
0142	4/13/94	6772.6	7.9	7.84	989	31.0	13.5	287	2.5	234	531	16.5	0.06	0.10	-0.00100		
0142	7/20/94	6773.0	7.7	8.05	1,088	34.2	14.1	286	2.8	242	538	15.8	0.08	0.45	0.00710		
0142	10/4/94	6773.8	7.7	8.15	1,032	31.2	14.0	322	3.4	256	589	16.9	0.07	0.32	-0.00100		
0142	1/4/95	6774.3	7.7	8.01	1,036	29.0	12.2	325	3.3	251	550	17.4	0.14	0.20	-0.00100		
0142	4/5/95	6774.7	7.8	8.11	1,327	59.0	31.0	319	4.2	277	714	13.4	0.34	0.38	-0.00100		
0142	7/6/95	6774.8	7.7	8.32	1,230	43.0	20.2	318	3.6	260	625	16.5	0.08	0.10	-0.00100		
0142	10/3/95	6775.3	7.3	8.30	1222	45.5	21.9	309	3.7	275	617	15.3	0.12	0.20	-0.00100		
0142	1/3/96	6775.5	7.8	8.05	1018	23.2	11.9	302	3.0	253	492	25.3	0.20	0.19	-0.00100		
0142	4/2/96	6776.1	7.1	8.42	1074	28.3	12.7	298	3.2	250	593	17.7	0.19	0.25	-0.00100		
0142	7/7/96	6776.1	7.9	7.72	1075	26.1	11.4	300	3.1	243	481	23.2	0.26	0.44	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0142	4/10/89		-0.001	-0.050	-0.01		-0.05	0.08		-0.05	-0.001	-0.10	0.0069	-1.7	-0.2	-1.0	4.1
0142	7/22/89	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0046	-1.7	-0.2	-1.0	1.1
0142	10/12/89	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.02	0.03	-0.05	-0.001	-0.10	0.0050	-1.3	-0.2	3.1	1.1
0142	1/3/90	0.10	0.002	-0.050	-0.01	-0.01	-0.05	0.03	0.02	-0.05	0.001	-0.10	0.0060	2.4	-0.2	2.9	1.9
0142	4/3/90	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.003	-0.10	0.0080	-2.3	-0.2	-1.0	2.1
0142	7/2/90	0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0019	-1.5	-0.2	-1.0	-1.0
0142	10/2/90	0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0030	-1.2	-0.2	-1.0	-1.0
0142	1/3/91	-0.10	0.001	-0.010	0.02	-0.10	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0032	-1.2	-0.2	-1.0	-1.0
0142	4/9/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.001	-0.10	0.0029	-1.2	-0.2	-1.0	-1.0
0142	7/16/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0030	-2.3	-0.2	1.8	-1.0
0142	10/14/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	-0.001	-0.10	0.0150	-2.5	-0.2	-1.0	-1.0
0142	1/14/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0020	-1.2	-0.2	-1.0	-1.0
0142	4/7/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0010	-1.2	-0.2	-1.0	-1.0
0142	7/7/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	0.002	-0.10	0.0030	3.7	-0.2	-1.0	-1.0
0142	10/6/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	0.001	-0.10	-0.0003	1.5	-0.2	1.4	-1.0
0142	1/5/93	-0.10	0.002	-0.010	-0.01	0.01	-0.05	0.01	-0.1	-0.05	0.007	-0.10	0.0100	0.5	-0.2	-1	1.6
0142	4/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.10	0.0020	-0.2	-0.2	2.6	-1.0
0142	7/13/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.10	-0.0003	-0.7	-0.2	-1.0	-1.0
0142	10/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.10	-0.0003	0.1	-0.2	2.9	-1.0
0142	1/5/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0060	-1.7	-0.2	-1.0	1.4
0142	4/13/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	-0.0003	2.4	-0.2	1.6	3.5
0142	7/20/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0010	-1.8	-0.2	1.2	-1.0
0142	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0010	-1.3	-0.2	-1.0	-1.0
0142	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0010	2.2	-0.2	-1.0	3.3
0142	4/5/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0010	3.1	-0.2	-1.0	4.5
0142	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	-0.0003	-2.2	0.4	-1.0	-1.0
0142	10/3/95	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	-0.001	-0.10	-0.0003	4.3	-0.2	-1.0	-1.0
0142	1/3/96	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	-0.001	-0.10	0.0034	-1.4	0.6	-1.0	-1.0
0142	4/2/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0004	-1.2	-0.2	-1.0	-1.0
0142	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.01	-0.10	-0.05	-0.001	-0.10	0.0007	-1.5	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0143	4/10/89	6759.5	7.9	7.80	954	34.0	17.0	260	3.3	210	521	16.8	0.38	0.43	-0.00100	-0.001	-0.005
0143	7/22/89	6759.4	7.9	7.86	1,000	34.0	17.0	297	3.7	207	596	16.7	0.44	0.39	-0.00100	-0.001	-0.005
0143	10/11/89	6759.7	7.8	7.98	1,022	31.3	16.6	285	4.8	220	541	16.8	0.37	0.29	-0.00100	-0.001	-0.005
0143	1/3/90	6759.6	7.5	7.65	1,002	32.5	16.1	291	3.6	220	542	17.3	0.48	0.22	-0.00100	-0.001	-0.005
0143	4/3/90	6759.5	7.7	7.80	1,042	33.8	17.0	280	3.7	232	503	19.7	0.57	0.37	-0.00100	-0.001	-0 005
0143	7/2/90	6759.3	7.4	7.90	1,033	34.5	16.6	292	3.9	226	528	17.2	0 12	1.05	-0.00100	-0.001	-0.005
0143	10/2/90	6759.3	7.5	7.77	1,051	31.5	19.9	281	4.0	212	591	17.4	0.10	2.08	-0.00100	-0.001	-0.005
0143	1/3/91	6759.4	7.5	7.15	1,023	31.2	18.7	286	5.2	220	571	15.2	0.36	0.64	-0.00100	-0.001	-0.005
0143	4/9/91	6759.4	7.5	8.26	944	29.4	16.2	270	3.7	223	558	16.7	0.30	0.25	-0.00100	-0 001	-0.005
0143	7/16/91	6759.2	7.6	7.73	975	29.1	15.1	264	3.4	228	620	16.6	0.28	0.25	-0.00100	-0.001	-0.005
0143	10/14/91	6760.9	7.5	7.90	1,007	25.1	13.1	279	3.1	230	533	23.4	0.11	0.06	-0.00100	-0 001	-0.005
0143	1/14/92	6764.7	7.4	7.54	1,005	28.9	15.8	267	3.2	237	565	17.2	0.78	0.18	-0.00100	-0.001	-0.005
0143	4/7/92	6766.6	7.5	7.18	964	26.6	16.0	321	3.7	237	523	16.9	0.31	-0.10	-0.00100	-0.001	-0.005
0143	7/7/92	6766.9	7.6	7.56	1,019	27.5	15.7	334	3.9	238	543	16.2	0.53	-0.10	-0.00100	-0 001	-0.005
0143	10/6/92	6768.0	7.8	7.86	999	31.2	15.9	284	1.7	236	524	15.5	0.23	-0.10	-0.00100	-0.001	-0.005
0143	1/5/93	6769.0	7.8	8.14	1,098	29.8	14.7	281	2.5	239	558	9.5	0.34	-0.10	-0.00100	-0.001	
0143	4/6/93	6769.8	7.7	8.07	965	25.5	12.8	299	2.2	239	495	16.1	0.28	-0.10	-0.00100	-0 001	
0143	7/13/93	6770.3	7.7	7.07	932	29.2	14.2	278	2.7	243	494	16.5	-0.05	-0.10	-0.00100	-0.001	
0143	10/6/93	6770.7	7.6	7.62	978	28.2	14.2	271	2.3	243	525	15.6	0.20	0.18	-0.00100	-0.001	
0143	4/13/94	6772.3	7.8	7.81	940	29.4	14.5	261	2.3	223	484	15.8	0.12	-0.10	-0.00100		
0143	7/20/94	6772.6	7.6	8.07	950	38.9	15.4	256	2.5	223	509	14.5	0.23	0.19	-0.00100		
0143	10/4/94	6773.2	7.6	8.09	927	33.3	16.4	285	3.1	245	525	16.2	0.23	0.16	-0.00100		
0143	1/4/95	6773.8	7.5	8.05	959	33.0	15.4	283	3.2	243	498	15.2	0.23	-0.10	-0.00100		
0143	4/5/95	6774.2	7.7	7.93	990	32.0	17.0	267	3.1	249	519	11.6	0.27	0.24	-0.00100		
0143	7/6/95	6774.4	7.6	8.32	995	30.9	15.6	269	3.1	238	495	15.5	0.14	-0.10	-0.00100		
0143	10/3/95	6774.9	7.3	8.35	994	30.8	15.8	266	3.1	241	486	14.2	0.22	0.11	-0.00100		
0143	1/3/96	6775.5	8.0	8.05	971	29.1	15.3	272	3.0	244	489	13.9	0.20	0.13	-0.00100		
0143	4/2/96	6775.8	7.5	8.41	958	32.5	16.7	257	3.3	244	519	16.9	0.33	0.14	-0.00100		
0143	7/7/96	6776.0	7.5	7.77	964	30.2	15.3	260	3.1	240	468	14.3	0.37	0.21	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0143	4/10/89		-0.001	-0.050	-0.01		-0.05	0.03		-0.05	-0.001	-0.10	0.0041	-1.2	-0.2	-1.0	3.4
0143	7/22/89	-0.10	0.002	-0.050	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	0.001	-0.10	0.0034	-1.7	3.0	-1.0	1.4
0143	10/11/89	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.04	0.11	-0.05	0.001	-0.10	0.0060	2.7	0.9	-1.0	3.2
0143	1/3/90	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	0.04	0.01	-0.05	0.001	-0.10	0.0060	-2.4	-0.2	2.1	4.0
0143	4/3/90	-0.10	0.002	-0.050	-0.01	0.01	-0.05	0.06	-0.10	-0.05	-0.001	-0.10	0.0681	-1.8	-0.2	-1.0	1.3
0143	7/2/90	-0.10	0.002	-0.050	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0068	-1.6	-0.2	-1.0	-1.0
0143	10/2/90	-0.10	0.002	-0.050	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0060	-1.3	-0.2	-1.0	-1.0
0143	1/3/91	-0.10	0.001	-0.010	0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0057	-1.9	-0.2	-1.0	-1.0
0143	4/9/91	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0020	-1.9	-0.2	-1.0	-1.0
0143	7/16/91	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	-0.0003	-1.2	-0.2	-1.0	-1.0
0143	10/14/91	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0030	-1.2	-0.2	-1.0	-1.0
0143	1/14/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.01	0.10	-0.05	-0.001	-0.10	0.0070	-1.2	-0.2	-1.0	-1.0
0143	4/7/92	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.02	0.10	-0.05	-0.001	-0.10	0.0060	-2.0	-0.2	-1.0	-1.0
0143	7/7/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0080	-1.2	-0.2	-1.0	-1.0
0143	10/6/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	0.001	-0.10	0.0170	4.0	-0.2	-1.0	-1.0
0143	1/5/93	-0.10	0.004	-0.010	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	0.007	-0.10	0.0060	-0.6	-0.2	-1.0	-1.0
0143	4/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.10	0.0040	2.0	-0.2	2.2	-1.0
0143	7/13/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.1	-0.05	-0.001	-0.10	0.0030	2.0	-0.2	-1.0	-1.0
0143	10/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.1	-0.05	-0.001	-0.10	0.0010	-0.3	-0.2	-1.0	-1.0
0143	4/13/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	-0.0003	3.3	-0.2	-1.0	4.7
0143	7/20/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.03	-0.10	-0.05	-0.001	-0.10	0.0020	-2.0	-0.2	-1.0	1.2
0143	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.04	-0.10	-0.05	-0.001	-0.10	0.0020	-1.7	-0.2	-1.0	-1.0
0143	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.02	-0.10	-0.05	-0.001	-0.10	0.0020	-1.8	-0.2	-1.0	-1.0
0143	4/5/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.02	-0.10	-0.05	-0.001	-0.10	0.0020	-1.2	-0.2	1.5	-1.0
0143	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	-0.03	-0.10	-0.05	0.001	-0.10	-0.0003	-1.5	-0.2	-1.0	-1.0
0143	10/3/95	-0.10	0.004	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0018	1.6	-0.2	-1.0	-1.0
0143	1/3/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0014	3.5	0.4	1.0	2.1
0143	4/2/96	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	0.19	-0.001	-0.10	-0.0003	-1.5	-0.2	-1.0	-1.0
0143	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.02	-0.10	-0.05	-0.001	-0.10	0.0020	-1.2	-0.2	-1.0	3.8

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0515 A	4/3/89	6920.2	4.3	3.95	7,146	485	818	298	11.3	0.0	4,955	46.1	1.16	75.0	0.00450	-0.001	0.016
0515 A	7/23/89	6920.5	4.5	4.63	7,411	482	871	340	12.6	18.0	4,982	52.5	0.39	86.0	0.01400	-0.001	-0.005
0515 A	10/12/89	6920.8	4.7	4.60	7,650	439	861	328	15.8	4.1	4,583	77.8	0.39	84.0	0.01200	-0.001	-0.005
0515 A	1/10/90	6919.6	4.0	3.94	9,350	449	1,017	335	13.7	0.0	6,227	36.8	3.79	52.0	0.00840	-0.001	-0.005
0515 A	4/5/90	6918.8	3.9	3.98	9,405	451	1,073	331	13.3	0.0	6,237	30.8	3.25	55.0	0.01180	-0.001	-0.005
0515 A	7/3/90	6918.1	4.0	4.18	9,187	435	941	320	12.7	0.0	6,084	59.4	0.67	54.2	0.02240	-0.001	-0.005
0515 A	10/3/90	6917.8	4.4	4.32	9,021	440	992	390	15.7	0.0	5,728	82.6	0.17	51.6	0.02540	-0.001	-0.005
0515 A	1/15/91	6916.9	4.4	4.31	9,290	523	1,146	407	16.7	0.0	6,476	68.5	0.65	58.5	0.04200	-0.001	-0.005
0515 A	4/3/91	6916.6	4.6	4.88	9,254	459	1,159	387	12.9	16.0	5,627	83.0	0.31	41.4	0.07530	-0.001	-0.005
0515 A	7/17/91	6916.5	4.5	4.60	8,968	486	940	342	13.2	12.0	6,653	83.5	0.79	38.6	0.03840	-0.001	-0.005
0515 A	10/15/91	6916.2	4.8	4.92	9,118	410	749	453	15.0	9.5	5,832	108	-0.05	19.9	0.10200	-0.001	-0.005
0515 A	1/15/92	6916.1	4.5	4.61	9,035	409	814	396	12.6	16.8	5,854	90.3	0.18	26.5	0.01900	-0.001	-0.005
0515 A	4/8/92	6916.2	4.3	5.30	9,087	430	723	416	14.5	19.8	5,710	130	1.23	19.2	0.02400	-0.001	-0.005
0515 A	7/8/92	6915.8	4.3	4.78	8,447	438	687	511	17.7	5.3	5,892	109	1.78	31.0	0.08300	-0.001	-0.005
0515 A	10/7/92	6915.7	4.6	4.10	8,989	450	953	470	19.4	0.0	6,028	78.2	0.43	15.1	0.04820	-0.001	-0.005
0515 A	1/6/93	6915.6	5.3	4.98	7,144	415	776	384	13.0	19.3	4,980	145	0.71	21.8	0.10200	-0.001	-0.005
0515 A	4/6/93	6915.6	4.7	4.55	8,962	389	863	471	12.5	2.5	5,942	150	0.35	27.1	0.08900	-0.001	-0.005
0515 A	7/13/93	6915.0	5.0	4.60	8,790	449	1,088	458	14.0	7.1	5,755	195	1.14	29.3	0.13300	-0.001	-0.005
0515 A	10/6/93	6914.8	6.0	6.22	8,235	454	1,038	479	12.6	554	5,500	225	0.94	38.0	0.25500	-0.001	-0.005
0515 A	1/6/94	6914.7	5.5	6.13	8,633	436	862	478	11.3	373	5,042	227	2.18	45.7	0.31500		
0515 A	4/12/94	6914.4	5.7	5.98	8,306	433	868	440	11.3	183	5,305	223	2.17	51.9	0.27700		
0515 A	7/20/94	6913.9	5.6	6.91	8,197	483	902	419	12.5	206	5,157	195	0.97	45.6	0.27100		
0515 A	10/4/94	6914.0	5.6	6.62	8,173	496	924	493	12.6	260	5,276	236	1.64	51.8	0.24100		
0515 A	1/4/95	6913.7	5.5	6.69	8,234	485	945	443	14.1	266	5,293	212	1.42	49.0	0.21300		
0515 A	4/4/95	6913.4	5.6	5.91	7,657	488	802	488	14.1	185	5,196	240	2.00	58.5	0.18200		
0515 A	7/6/95	6912.9	5.8	7.09	8,297	475	926	449	13.1	315	5,060	236	3.99	49.7	0.18100		
0515 A	10/3/95	6912.9	5.8	7.16	8,311	490	928	477	13.0	421	5,042	253	6.81	53.3	0.26400		
0515 A	1/3/96	6912.7	5.8	6.43	8,017	450	876	468	13.5	475	4,830	252	5.60	56.9	0.23600		
0515 A	4/2/96	6912.4	6.0	7.53	8,300	506	997	457	14.0	392	5,360	279	6.57	61.0	0.24700		
0515 A	7/7/96	6912.2	5.3	5.94	8,117	447	853	426	13.6	210	4,670	250	1.76	54.7	0.21100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0515 A	4/3/89		-0.001	-0.050	-0.01		-0.05	11.00		0.23	0.020	-0.10	0.0028	21.0	9.2	1.4	13.6
0515 A	7/23/89	12.00	-0.001	-0.050	-0.01	0.07	-0.05	7.70	-0.10	0.26	-0.001	-0.10	0.0029	15.7	-0.2	3.0	23.1
0515 A	10/12/89	15.00	-0.001	-0.050	-0.01	0.09	-0.05	8.50	-0.01	0.26	0.019	-0.10	0.0040	-4.2	-0.2	1.6	3.9
0515 A	1/10/90	110.00	-0.001	-0.050	-0.01	0.26	-0.05	23.00	-0.10	0.37	-0.001	-0.10	0.0100	14.9	1.7	3.5	9.7
0515 A	4/5/90	150.00	-0.001	-0.050	-0.01	0.31	-0.05	24.00	-0.10	0.46	-0.001	-0.10	0.0080	10.4	1.8	2.2	7.3
0515 A	7/3/90	110.00	-0.001	-0.050	-0.01	0.18	-0.05	17.60	-0.10	0.35	-0.001	-0.10	0.0107	13.1	-0.2	-1.0	7.0
0515 A	10/3/90	75.60	-0.001	-0.050	-0.01	0.17	-0.05	12.80	-0.10	0.31	-0.001	-0.10	0.0050	11.6	-0.2	-1.0	4.0
0515 A	1/15/91	48.40	-0.001	0.010	0.01	0.16	-0.05	11.60	-0.10	0.32	-0.001	-0.10	0.0070	12.4	-0.2	-1.0	5.7
0515 A	4/3/91	60.70	-0.001	-0.010	-0.01	0.11	-0.05	7.10	-0.10	0.20	-0.001	-0.10	0.0030	13.3	-0.2	2.0	6.0
0515 A	7/17/91	45.80	-0.001	0.020	-0.01	0.24	-0.05	14.70	-0.10	0.30	-0.001	-0.10	0.0110	6.2	-0.2	-1.0	3.0
0515 A	10/15/91	3.30	-0.001	-0.010	-0.01	0.22	-0.05	14.40	-0.10	0.19	-0.001	-0.10	0.0200	11.4	-0.2	-1.0	3.0
0515 A	1/15/92	26.60	-0.001	0.020	-0.01	0.02	-0.05	15.50	-0.10	0.31	0.010	-0.10	0.0120	7.0	-0.2	4.2	3.0
0515 A	4/8/92	16.20	0.003	0.010	-0.01	0.19	-0.05	13.60	-0.10	0.27	0.010	-0.10	0.0130	9.8	-0.2	-1.0	3.6
0515 A	7/8/92	21.00	0.001	-0.010	-0.01	0.19	-0.05	15.70	-0.10	0.26	0.001	-0.10	0.0200	14.2	-0.2	1.6	3.7
0515 A	10/7/92	48.80	-0.001	-0.010	-0.01	0.28	-0.05	18.70	-0.10	0.38	-0.001	-0.10	0.0200	12.6	-0.2	-1.0	5.9
0515 A	1/6/93	10.20	-0.001	0.010	-0.01	0.21	-0.05	14.20	-0.10	0.34	0.004	-0.10	0.0150	12.4	-0.2	-1.0	5.9
0515 A	4/6/93	35.60	-0.001	0.013	-0.01	0.26	-0.05	16.80	-0.10	0.37	0.001	-0.10	0.0150	12.4	-0.2	4.4	3.6
0515 A	7/13/93	5.73	-0.001	-0.010	-0.01	0.20	-0.05	14.00	-0.10	0.28	-0.001	-0.10	0.0120	9.1	-0.2	2.9	3.4
0515 A	10/6/93	1.87	-0.001	-0.010	-0.01	0.13	-0.05	9.81	-0.10	0.27	-0.001	-0.10	0.0040	10.5	-0.2	2.6	3.9
0515 A	1/6/94	2.92	-0.001	-0.010	-0.01	0.15	-0.05	12.10	-0.10	0.26	-0.001	-0.10	0.0040	8.2	-0.2	-1.0	10.6
0515 A	4/12/94	1.51	-0.001	-0.010	-0.01	-0.01	-0.05	10.60	-0.10	0.21	0.001	-0.10	0.0300	-5.8	-0.2	3.9	5.0
0515 A	7/20/94	1.42	-0.001	-0.010	-0.01	0.18	-0.05	11.40	-0.10	0.25	0.001	-0.10	0.0020	13.5	-0.2	-1.0	24.2
0515 A	10/4/94	2.45	-0.001	-0.010	-0.01	0.16	-0.05	15.30	-0.10	0.31	-0.001	-0.10	0.0030	10.3	-0.2	1.0	12.3
0515 A	1/4/95	1.70	-0.001	-0.010	-0.01	0.11	-0.05	10.20	-0.10	0.42	-0.001	-0.10	0.0040	10.9	-0.2	-1.0	13.4
0515 A	4/4/95	2.04	-0.001	-0.010	-0.01	0.13	-0.05	11.00	-0.10	0.15	-0.001	-0.10	0.0020	12.2	-0.2	2.9	16.1
0515 A	7/6/95	0.25	-0.001	-0.010	-0.01	0.02	-0.05	2.52	-0.10	-0.05	0.002	-0.10	0.0044	7.2	0.3	-1.0	16.1
0515 A	10/3/95	0.65	0.002	-0.010	-0.01	0.07	-0.05	11.10	-0.10	0.13	-0.001	-0.10	0.0057	-4.6	-0.2	-1.0	13.6
0515 A	1/3/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	11.40	-0.10	0.14	-0.001	-0.10	0.0038	6.5	0.8	-1.0	7.4
0515 A	4/2/96	0.60	-0.001	-0.010	-0.01	0.08	-0.05	11.80	-0.10	0.14	-0.001	-0.10	-0.0003	6.3	-0.2	-1.0	5.4
0515 A	7/7/96	1.42	-0.001	-0.010	-0.01	0.11	-0.05	12.90	-0.10	0.17	-0.001	-0.10	0.0023	-3.6	-0.2	-1.0	3.4

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0516 A*	4/3/89	6919.1	4.2	4.15	12,312	459	1,568	377	8.8	0.0	8,360	253	24.00	147	-0.00100	-0.001	0.051
0516 A*	7/23/89	6918.7	4.2	4.08	12,629	454	1,519	399	9.3	0.0	8,605	207	30.50	146	-0.00100	-0.001	-0.005
0516 A*	10/12/89	6918.5	4.4	4.22	11,560	449	1,343	358	13.6	0.0	6,992	264	39.80	188	-0.00100	-0.001	-0.005
0516 A*	1/10/90	6917.8	4.4	4.31	10,892	463	1,281	409	11.7	0.0	6,654	230	25.00	181	-0.00100	-0.001	-0.005
0516 A*	4/6/90	6917.4	4.5	4.27	11,343	463	1,300	379	12.1	0.0	6,989	216	57.30	186	-0.00100	-0.001	-0.005
0516 A*	7/3/90	6916.4	4.2	4.28	11,462	472	1,212	359	10.2	0.0	7,003	216	95.50	208	-0.00100	-0.001	-0.005
0516 A*	10/9/90	6915.6	4.6	4.51	10,430	429	1,243	416	13.3	0.1	6,467	203	78.00	208	-0.00100	-0.001	-0.005
0516 A*	1/15/91	6915.1	4.6	4.50	10,179	482	1,207	436	19.4	0.0	5,983	261	80.80	240	-0.00100	-0.001	-0.005
0516 A*	4/2/91	6914.4	4.9	4.99	10,493	464	1,250	387	13.4	25.0	6,165	267	97.90	240	-0.00100	-0.001	-0.005
0516 A*	7/17/91	6913.8	4.8	5.75	9,771	430	1,097	390	12.8	100	6,873	326	74.00	281	-0.00100	-0.001	-0.005
0516 A*	10/15/91	6911.4	5.1	6.39	9,878	450	1,068	451	16.5	213	6,047	275	99.00	234	-0.00100	-0.001	-0.005
0516 A*	1/15/92	6913.2	4.9	4.70	9,588	403	1,186	364	11.9	21.6	6,079	241	201.00	93.5	0.00120	-0.001	-0.005
0516 A*	4/8/92	6912.9	4.9	5.51	10,129	444	669	395	15.1	83.0	6,152	369	117.00	97.1	0.00160	-0.001	-0.005
0516 A*	7/8/92	6912.4	4.8	6.21	9,577	495	916	413	25.2	117	6,085	234	129.00	119	0.00140	0.002	-0.005
0516 A*	10/7/92	6912.2	5.0	5.19	9,800	492	1,090	433	17.2	73.2	6,244	229	80.10	15.9	0.00130	-0.001	-0.005
0516 A*	1/6/93	6912.1	5.1	5.70	8,137	502	889	398	15.5	168	5,252	245	93.70	144	0.00210	0.002	-0.005
0516 A*	4/6/93	6911.8	5.4	6.26	9,954	423	1,037	456	13.7	250	6,106	252	112.00	141	0.00180	-0.001	-0.005
0516 A*	7/13/93	6911.2	5.6	6.48	9,291	485	1,102	401	14.4	421	5,879	241	92.90	142	0.00230	-0.001	-0.005
0516 A*	10/7/93	6910.5	5.8	6.16	9,168	481	1,109	417	13.3	348	5,596	255	101.00	169	0.00160	-0.001	-0.005
0516 A*	1/6/94	6910.7	5.7	6.26	10,048	478	1,044	445	12.7	477	5,747	237	112.00	150	0.00250		
0516 A*	4/12/94	6910.2	5.8	6.52	9,862	472	1,121	413	14.6	610	5,815	249	138.00	155	0.00087		
0516 A*	7/20/94	6906.8	6.0	6.96	10,276	526	1,293	389	17.6	953	6,286	246	149.00	157	0.00204		
0516 A*	10/4/94	6909.5	6.2	7.37	10,221	533	1,221	488	17.2	949	6,371	249	164.00	138	0.00160		
0516 A*	1/4/95	6909.1	6.1	7.01	10,761	495	1,245	458	19.0	939	6,901	255	198.00	130	0.00180		
0516 A*	4/5/95	6908.8	6.1	6.36	10,757	505	1,275	478	20.7	1,069	6,510	255	180.00	133	0.00130		
0516 A*	7/6/95	6903.9	6.2	7.21	10,428	491	1,290	476	18.7	1,302	6,259	258	164.00	129	0.00190		
0516 A*	10/3/95	6903.7	6.1	7.44	10,761	527	1,298	450	19.4	1,332	6,394	238	178	126	0.00172		
0516 A*	1/3/96	6908.2	6.4	7.03	11,314	469	1,340	485	18.5	1,302	6,480	237	137	142	0.00176		
0516 A*	4/2/96	6904.1	6.4	7.29	11,345	527	1,530	491	19.0	1,320	7,150	259	152	146	0.00209		
0516 A*	7/7/96	6904.2	6.1	7.15	11,529	465	1,480	485	19.6	1,309	6,190	240	150	134	0.00256		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0516 A*	4/3/89		-0.001	-0.050	-0.01		-0.05	33.00		0.47	-0.001	0.10	0.0018	11.0	-0.2	-1.0	26.0
0516 A*	7/23/89	240.00	-0.001	-0.050	-0.01	0.45	-0.05	37.00	-0.10	0.05	-0.001	-0.10	0.0023	21.9	-0.2	2.9	53.8
0516 A*	10/12/89	150.00	-0.001	-0.050	-0.01	0.40	0.12	29.00	-0.01	0.41	0.010	-0.10	0.0050	21.4	-0.2	1.8	2.5
0516 A*	1/10/90	110.00	-0.001	-0.050	-0.01	0.42	-0.05	25.00	-0.10	0.35	-0.001	-0.10	0.0030	7.7	-0.2	-1.0	3.5
0516 A*	4/6/90	130.00	-0.001	-0.050	-0.01	0.35	-0.05	27.00	-0.10	0.34	-0.001	-0.10	0.0040	6.6	-0.2	-1.0	4.0
0516 A*	7/3/90	144.00	-0.001	-0.050	-0.01	0.25	-0.05	28.00	-0.10	0.45	0.001	-0.10	0.0029	6.3	-0.2	-1.0	3.0
0516 A*	10/9/90	80.30	-0.001	-0.050	-0.01	0.25	-0.05	21.90	-0.10	0.30	-0.001	-0.10	0.0035	7.9	-0.2	-1.0	4.0
0516 A*	1/15/91	42.60	-0.001	0.010	-0.01	0.24	-0.05	20.60	-0.10	0.32	-0.001	-0.10	0.0028	12.9	-0.2	-1.0	6.7
0516 A*	4/2/91	20.50	-0.001	-0.010	-0.01	0.19	-0.05	20.30	-0.10	0.26	-0.001	-0.10	0.0003	12.8	-0.2	3.3	6.0
0516 A*	7/17/91	12.30	-0.001	-0.010	-0.01	0.22	-0.05	18.70	-0.10	0.27	0.002	-0.10	0.0010	5.4	-0.2	-1.0	2.0
0516 A*	10/15/91	4.18	-0.001	-0.010	-0.01	0.18	-0.05	15.30	-0.10	0.22	0.002	-0.10	0.0040	10.8	-0.2	-1.0	1.0
0516 A*	1/15/92	22.20	-0.001	0.010	-0.01	0.21	-0.05	19.20	-0.10	0.29	0.063	-0.10	0.0630	11.3	-0.2	-1.0	2.0
0516 A*	4/8/92	11.40	0.002	0.010	-0.01	0.20	-0.05	15.80	-0.10	0.22	0.001	-0.10	0.0010	11.6	-0.2	-1.0	2.0
0516 A*	7/8/92	6.56	-0.001	-0.010	-0.01	0.17	-0.05	16.20	-0.10	0.21	-0.001	-0.10	0.0020	9.3	-0.2	2.6	2.5
0516 A*	10/7/92	29.30	-0.001	-0.010	-0.01	0.23	-0.05	18.00	-0.10	0.28	0.003	-0.10	-0.0003	10.0	-0.2	3.0	4.6
0516 A*	1/6/93	7.80	-0.001	0.010	0.01	0.41	-0.05	16.00	-0.10	0.37	0.009	-0.10	0.0050	7.1	-0.2	-1.0	3.9
0516 A*	4/6/93	2.90	-0.001	-0.010	-0.01	0.14	-0.05	13.00	-0.10	0.21	0.001	-0.10	0.0040	3.2	-0.2	2.6	2.0
0516 A*	7/13/93	2.00	-0.001	-0.010	-0.01	0.13	-0.05	10.30	-0.10	0.17	0.005	-0.10	0.0030	5.7	-0.2	3.0	2.0
0516 A*	10/7/93	2.40	-0.001	-0.010	-0.01	0.18	-0.05	12.40	-0.10	0.22	0.002	-0.10	0.0070	7.7	-0.2	-1.0	4.0
0516 A*	1/6/94	2.87	-0.001	-0.010	-0.01	0.11	-0.05	10.20	-0.10	0.15	-0.001	-0.10	0.0010	5.1	-0.2	-1.0	6.8
0516 A*	4/12/94	0.97	-0.001	-0.010	-0.01	0.08	-0.05	7.80	-0.10	0.14	0.001	-0.10	0.0030	8.4	-0.2	1.5	11.3
0516 A*	7/20/94	0.46	-0.001	-0.010	-0.01	0.05	-0.05	4.95	-0.10	0.08	-0.001	-0.10	0.0110	6.9	-0.2	-1.0	8.6
0516 A*	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	5.22	-0.10	-0.05	0.001	-0.10	0.0130	5.3	-0.2	3.4	4.5
0516 A*	1/4/95	0.24	-0.001	-0.010	-0.01	0.04	-0.05	4.74	-0.10	0.08	-0.001	-0.10	0.0100	4.3	-0.2	2.0	5.9
0516 A*	4/5/95	0.12	-0.001	-0.010	-0.01	-0.01	-0.05	3.74	-0.10	-0.05	0.001	-0.10	0.0160	3.6	-0.2	3.1	4.9
0516 A*	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.70	-0.10	-0.05	0.003	-0.10	0.0183	-1.9	0.2	-1.0	2.0
0516 A*	10/3/95	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	2.54	-0.1	-0.05	0.001	-0.10	0.0256	-2.3	-0.2	-1.0	2.5
0516 A*	1/3/96	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	2.34	-0.1	-0.05	-0.001	-0.10	0.0140	2.5	-0.2	1.7	2.7
0516 A*	4/2/96	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	2.10	-0.1	-0.05	-0.001	-0.10	0.0140	-1.8	-0.2	-1.0	1.4
0516 A*	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.00	-0.1	-0.05	-0.001	-0.10	0.0180	-1.7	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0604*	4/3/89	6917.8	3.9	4.37	6,418	470	650	217	10.7	0.0	4,736	68.3	8.90	18.4	-0.00100	-0.001	-0.005
0604*	7/23/89	6917.2	3.9	4.04	6,697	454	707	251	11.6	0.0	3,891	21.4	6.39	31.0	-0.00100	-0.001	-0.005
0604*	10/12/89	6916.4	3.9	4.11	6,728	428	644	235	14.6	0.0	4,407	33.7	6.05	39.0	-0.00100	-0.001	-0.005
0604*	1/10/90	6915.8	3.9	4.06	6,602	444	691	291	13.7	0.0	4,325	23.1	6.70	33.0	-0.00100	-0.001	-0.005
0604*	4/5/90	6914.9	4.2	4.20	6,806	455	670	240	11.6	0.0	4,352	33.4	6.80	43.0	-0.00100	-0.001	-0.005
0604*	7/3/90	6914.6	4.0	4.24	6,824	461	662	240	9.6	0.0	4,321	26.8	5.38	50.9	-0.00100	-0.001	-0.005
0604*	10/3/90	6914.8	4.1	4.11	6,616	453	628	264	13.3	0.0	4,290	31.1	3.27	44.0	-0.00100	-0.001	-0.005
0604*	1/15/91	6914.3	4.1	4.21	6,802	475	710	265	15.2	0.0	4,627	31.6	5.48	52.0	-0.00100	-0.001	-0.005
0604*	4/2/91	6914.5	4.2	4.51	6,380	432	659	215	11.1	0.0	4,923	33.0	4.60	56.5	-0.00100	-0.001	-0.005
0604*	7/17/91	6914.4	4.0	4.46	6,949	408	624	218	11.1	0.0	5,307	28.4	5.34	51.4	-0.00100	-0.001	-0.005
0604*	10/15/91	6914.4	3.9	4.26	6,909	432	570	275	12.5	0.0	4,502	34.7	7.86	47.3	-0.00100	-0.001	-0.005
0604*	1/15/92	6914.2	3.8	4.11	6,837	414	702	222	10.0	0.0	4,554	31.6	3.70	35.4	-0.00100	-0.001	-0.005
0604*	4/8/92	6914.1	3.8	4.24	7,106	454	654	252	12.2	0.0	4,691	40.8	3.75	41.4	-0.00100	-0.001	-0.005
0604*	7/8/92	6914.0	3.7	4.22	6,854	495	610	285	12.3	0.0	4,689	33.3	3.94	49.2	-0.00100	-0.001	-0.005
0604*	10/7/92	6913.5	4.1	4.04	7,185	447	702	273	15.1	0.0	4,860	35.5	3.80	15.7	-0.00100	-0.001	-0.005
0604*	1/6/93	6913.3	4.3	4.45	5,855	411	642	236	12.0	0.0	4,042	56.3	2.09	88.6	0.00120	-0.001	-0.005
0604*	4/6/93	6913.1	4.4	4.36	7,409	414	687	284	10.2	0.0	4,639	62 0	1.83	89.1	-0.00100	-0.001	-0.005
0604*	7/13/93	6912.8	4.4	4.30	7,711	449	816	265	11.9	0.0	4,973	62.7	1.45	84.4	0.00100	-0.001	-0.005
0604*	10/7/93	6912.3	4.5	4.24	6,891	475	785	250	10.8	0.0	4,744	47.6	1.07	91.8	-0.00100	-0.001	-0.005
0604*	1/6/94	6912.4	4.3	4.32	7,520	450	691	243	10.3	0.0	4,543	52.6	1.19	97.6	0.00180		
0604*	4/12/94	6912.1	4.4	4.39	7,215	423	729	254	10.2	0.0	4,838	51.6	2.70	90.7	-0.00100		
0604*	7/20/94	6911.9	4.5	4.33	7,069	491	856	232	11.2	0.0	4,790	60.6	1.02	89.2	-0.00100		
0604*	10/4/94	6911.4	4.5	4.38	7,504	493	837	280	11.6	0.0	4,935	60.0	1.61	92.5	-0.00100		
0604*	1/4/95	6919.3	4.4	4.50	7,621	490	835	256	12.5	0.0	5,023	62.6	1.67	86.9	-0.00100		
0604*	4/5/95	6919.2	4.5	4.50	7,614	475	850	260	12.0	0.5	4,870	53.0	1.97	92.5	-0.00100		
0604*	7/6/95	6919.1	4.5	4.42	6,741	455	760	260	11.5	0.0	4,650	60.2	1.83	87.7	-0.00100		
0604*	10/3/95	6911.5	4.6	4.49	7,616	496	877	279	11.5	0.0	5,010	58.0	1.19	87.6	-0.00100		
0604*	1/3/96	6911.2	4.7	4.43	7,223	440	827	277	11.8	0.0	4,760	54.5	0.2	96.1	-0.00100		
0604*	4/2/96	6911.3	4.7	4.58	7,638	497	920	260	12.0	2.5	5,180	64.2	0.15	100	-0.00100		
0604*	7/7/96	6910.6	4.4	4.48	7,742	452	816	262	12.4	0.0	4,610	64.3	0.24	83.2	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0604*	4/3/89		-0.001	-0.050	-0.01		-0.05	26.00		0.38	0.004	-0.10	0.0018	25.6	41.0	-1.0	50.4
0604*	7/23/89	60.00	-0.001	-0.050	-0.01	0.31	-0.05	22.00	-0.10	0.39	-0.001	-0.10	0.0040	30.9	3.5	1.7	80.2
0604*	10/12/89	66.00	-0.001	-0.050	0.01	0.31	-0.05	22.00	-0.10	0.34	0.006	-0.10	0.0060	15.5	33.9	-1.0	41.7
0604*	1/10/90	58.00	-0.001	-0.050	-0.01	0.33	-0.05	22.00	-0.10	0.38	-0.001	-0.10	0.0050	13.6	1.7	2.8	6.5
0604*	4/5/90	59.00	-0.001	-0.050	-0.01	0.31	-0.05	19.00	-0.10	0.38	-0.001	-0.10	0.0006	14.0	-0.2	2.6	6.0
0604*	7/3/90	60.00	-0.001	-0.050	-0.01	0.21	-0.05	18.20	-0.10	0.34	-0.001	-0.10	0.0029	14.1	0.4	-1.0	8.0
0604*	10/3/90	77.20	-0.001	-0.050	-0.01	0.35	-0.05	22.70	-0.10	0.40	-0.001	-0.10	0.0030	26.1	-0.2	-1.0	6.0
0604*	1/15/91	61.80	-0.001	0.020	-0.01	0.39	-0.05	20.10	-0.10	0.44	-0.001	-0.10	0.0070	22.0	-0.2	2.3	9.1
0604*	4/2/91	45.30	-0.001	0.016	-0.01	0.23	-0.05	14.60	-0.10	0.38	-0.001	-0.10	0.0050	33.4	-0.2	1.3	15.0
0604*	7/17/91	70.95	-0.001	0.030	-0.01	0.30	-0.05	20.50	-0.10	0.41	-0.001	-0.10	0.0060	16.8	-0.2	2.1	4.0
0604*	10/15/91	58.60	-0.001	0.030	-0.01	0.36	-0.05	21.30	-0.10	0.41	-0.001	-0.10	0.0600	24.5	-0.2	-1.0	4.0
0604*	1/15/92	57.10	-0.001	0.020	-0.01	0.34	-0.05	20.50	-0.10	0.41	0.013	-0.10	0.0601	24.5	-0.2	-1.0	4.0
0604*	4/8/92	52.40	0.003	0.020	-0.01	0.36	-0.05	17.60	-0.10	0.40	-0.001	-0.10	0.0030	19.9	-0.2	1.2	3.8
0604*	7/8/92	73.20	0.001	0.029	-0.01	0.37	-0.05	21.80	-0.10	0.50	-0.001	-0.10	0.0050	17.3	-0.2	3.4	3.8
0604*	10/7/92	66.20	-0.001	-0.010	-0.01	0.37	-0.05	19.90	-0.10	0.42	-0.001	-0.10	0.0040	18.4	-0.2	1.9	6.9
0604*	1/6/93	45.10	0.002	0.010	-0.01	0.36	-0.05	14.50	-0.10	0.44	0.006	-0.10	0.0090	13.3	-0.2	-1.0	6.1
0604*	4/6/93	45.50	-0.001	0.022	-0.01	0.37	-0.05	14.60	-0.10	0.49	0.002	-0.10	0.0060	15.3	-0.2	1.7	3.8
0604*	7/13/93	39.10	-0.001	-0.010	-0.01	0.35	-0.05	14.20	-0.10	0.62	0.002	-0.10	-0.0003	9.3	-0.2	3.1	3.2
0604*	10/7/93	30.00	-0.001	0.017	-0.01	0.36	-0.05	13.50	-0.10	0.43	-0.001	-0.10	0.0059	7.9	-0.2	-1.0	9.0
0604*	1/6/94	47.80	-0.001	0.020	-0.01	0.37	-0.05	13.00	-0.10	0.43	-0.001	-0.10	0.0030	13.9	-0.2	2.3	18.9
0604*	4/12/94	39.40	-0.001	0.020	-0.01	0.28	-0.05	14.10	-0.10	0.41	-0.001	-0.10	0.0040	15.7	-0.2	2.3	24.9
0604*	7/20/94	27.20	-0.001	-0.010	-0.01	0.30	-0.05	9.63	-0.10	0.39	-0.001	-0.10	0.0030	23.0	-0.2	-1.0	29.7
0604*	10/4/94	41.80	-0.001	-0.010	-0.01	0.40	-0.05	12.90	-0.10	0.57	-0.001	-0.10	0.0060	10.6	-0.2	3.8	13.5
0604*	1/4/95	26.10	-0.001	0.010	-0.01	0.32	-0.05	10.40	-0.10	0.42	-0.001	-0.10	0.0040	12.8	-0.2	-1.0	16.8
0604*	4/5/95	30.50	-0.001	-0.010	-0.01	-0.01	-0.05	12.00	-0.10	0.50	-0.001	-0.10	0.0040	12.6	-0.2	4.0	16.6
0604*	7/6/95	32.00	-0.001	0.020	-0.01	0.35	-0.05	2.61	-0.10	0.40	-0.001	-0.10	0.0035	9.5	-0.2	-1.0	15.3
0604*	10/3/95	25.10	0.002	-0.010	-0.01	0.32	-0.05	11.10	-0.1	0.38	0.031	-0.10	0.0046	22.4	-0.2	-1.0	15.5
0604*	1/3/96	26.20	-0.001	-0.010	-0.01	0.04	-0.05	12.00	-0.1	-0.05	0.031	-0.10	0.0034	5.3	-0.2	2.8	9.0
0604*	4/2/96	22.00	-0.001	-0.010	-0.01	0.32	-0.05	10.80	-0.1	0.36	-0.001	-0.10	-0.0003	9.0	-0.2	-1.0	5.3
0604*	7/7/96	26.30	-0.001	-0.010	-0.01	0.36	-0.05	12.70	-0.1	0.41	-0.001	-0.10	0.0034	-3.5	-0.2	-1.0	3.1

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0614*	4/3/89	6930.2	6.6	6.97	6,306	724	643	406	6.8	1,763	2,896	370	33.30	112	0.01100	-0.001	0.031
0614*	7/23/89	6929.3	6.6	6.84	6,868	697	672	491	9.8	1,501	3,485	381	51.00	99	0.08200	-0.001	-0.005
0614*	10/12/89	6929.0	6.5	6.98	6,734	624	612	479	11.6	1,540	3,002	377	38.60	126	0.05900	-0.001	-0.005
0614*	1/10/90	6928.0	6.4	6.80	6,892	609	640	491	10.6	1,586	3,121	359	69.00	108	0.10000	-0.001	-0.005
0614*	4/5/90	6927.5	6.4	7.06	6,877	622	680	492	11.2	1,632	3,277	350	94.00	107	0.16400	-0.001	-0.005
0614*	7/3/90	6926.6	6.3	6.86	6,754	640	619	429	10.9	1,492	2,996	341	111.00	151	0.15200	-0.001	-0.005
0614*	10/3/90	6926.3	6.3	7.23	6,567	585	577	507	14.1	1,362	2,894	334	76.60	106	0.17600	-0.001	-0.005
0614*	1/15/91	6926.4	6.4	6.96	6,633	647	623	478	9.6	1,412	3,253	322	68.00	125	0.17000	-0.001	-0.005
0614*	4/2/91	6926.2	6.4	7.18	6,539	619	495	420	10.1	1,257	3,165	322	78.30	131	0.25400	-0.001	-0.005
0614*	7/17/91	6925.9	6.4	7.49	6,970	573	551	443	9.7	1,680	3,645	327	69.40	169	0.36000	-0.001	-0.005
0614*	10/15/91	6925.3	6.3	7.15	7,145	664	526	418	10.0	1,515	3,239	313	53.80	119	0.36100	-0.001	-0.005
0614*	1/15/92	6925.2	6.3	7.34	7,026	584	645	449	10.1	1,268	3,376	287	94.90	123	0.52500	-0.001	-0.005
0614*	4/8/92	6925.1	6.3	7.48	7,207	691	601	486	10.8	1,568	3,603	279	101.00	70.2	0.47100	-0.001	-0.005
0614*	7/8/92	6924.8	6.2	7.51	6,583	697	496	640	11.3	1,512	3,249	274	79.80	116	0.30300	-0.001	-0.005
0614*	10/7/92	6924.7	6.4	8.08	6,914	661	577	566	12.9	803	3,248	273	48.60	15.8	0.42600	-0.001	-0.005
0614*	1/6/93	6924.5	6.4	7.04	6,464	626	563	487	10.8	1,459	3,008	270	86.10	117	0.52700	-0.001	-0.005
0614*	4/6/93	6924.4	6.5	7.26	7,340	616	607	521	10.1	1,620	3,518	288	97.40	47.8	0.40000	-0.001	-0.005
0614*	7/13/93	6923.9	6.5	7.11	7,485	651	607	506	10.7	1,454	3,370	282	103.00	146	0.55300	-0.001	-0.005
0614*	10/7/93	6923.6	6.7	6.95	7,439	642	660	476	10.8	1,431	3,505	244	105.00	166	0.86700	-0.001	-0.005
0614*	1/6/94	6923.4	6.7	7.14	7,380	594	565	485	10.0	1,221	3,435	242	91.40	192	0.61700		
0614*	4/12/94	6923.1	6.6	6.96	7,496	576	650	446	11.5	1,174	3,743	242	142.00	170	0.86600		
0614*	7/20/94	6922.7	6.5	7.28	7,490	641	748	425	13.5	1,322	4,076	231	140.00	140	0.79900		
0614*	10/4/94	6922.6	6.6	7.54	7,700	642	750	519	14.4	1,465	4,430	246	170.00	149	0.82900		
0614*	1/4/95	6922.3	6.5	7.38	7,528	606	636	446	15.2	1,330	4,176	237	213.00	155	0.52000		
0614*	4/4/95	6922.0	6.5	6.90	7,731	604	654	451	15.0	1,370	4,048	277	183.00	171	0.75600		
0614*	7/6/95	6922.4	6.5	7.93	7,816	565	685	440	15.4	1,331	4,000	241	227.00	154	0.58500		
0614*	10/3/95	6921.3	6.5	7.71	7,857	560	690	445	16.0	1,357	4,040	205	222	179	0.63800		
0614*	1/3/96	6921.1	6.6	7.20	7,886	543	750	470	17.7	1,352	4,260	204	234	179	0.58300		
0614*	4/2/96	6920.6	6.5	7.92	7,896	605	852	442	17.2	1,286	4,760	221	262	182	0.62400		
0614*	7/7/96	6920.3	6.3	6.99	8,045	537	750	432	18.5	1,313	4,210	238	243	181	0.58700		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0614*	4/3/89		-0.001	-0.050	-0.01		-0.05	0.07		-0.05	0.003	-0.10	0.0668	-2.2	-0.2	-1.0	3.0
0614*	7/23/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	0.13	-0.10	-0.05	0.003	-0.10	0.0624	6.3	0.6	-1.0	8.9
0614*	10/12/89	0.18	-0.001	-0.050	-0.01	-0.01	-0.05	0.08	-0.01	-0.05	0.020	-0.10	0.0640	5.5	-0.2	2.1	1.5
0614*	1/10/90	-0.10	-0.001	-0.050	0.01	-0.01	-0.05	0.06	-0.10	-0.05	0.002	-0.10	0.0640	-1.6	-0.2	-1.0	0.9
0614*	4/5/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.003	-0.10	0.0450	-2.0	-0.2	-1.0	1.7
0614*	7/3/90	0.13	-0.001	-0.050	-0.01	-0.01	-0.05	0.07	-0.10	-0.05	0.002	-0.10	0.0611	2.5	-0.2	-1.0	-1.0
0614*	10/3/90	0.10	0.005	-0.050	-0.01	-0.01	-0.05	0.08	-0.10	-0.05	-0.001	-0.10	0.0360	3.4	-0.2	-1.0	-1.0
0614*	1/15/91	0.20	-0.001	-0.010	-0.01	-0.01	-0.05	0.09	-0.10	-0.05	0.001	-0.10	0.0425	-2.9	-0.2	1.3	2.3
0614*	4/2/91	0.11	-0.001	-0.010	-0.01	-0.02	-0.05	0.08	-0.10	-0.05	-0.002	-0.10	0.0589	4.5	2.2	1.3	3.0
0614*	7/17/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.10	-0.10	-0.05	0.002	-0.10	0.0640	-1.5	-0.2	-1.0	-1.0
0614*	10/15/91	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.11	-0.10	-0.05	0.003	-0.10	0.0760	6.1	-0.2	-1.0	-1.0
0614*	1/15/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.12	-0.10	-0.05	0.059	-0.10	0.0390	-1.4	-0.2	-1.0	-1.0
0614*	4/8/92	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.14	-0.10	-0.05	0.004	-0.10	0.0510	4.8	-0.2	-1.0	-1.0
0614*	7/8/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	0.17	-0.10	-0.05	0.003	-0.10	0.0500	4.4	-0.2	-1.0	1.1
0614*	10/7/92	0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.15	-0.10	-0.05	0.005	-0.10	0.0780	5.6	-0.2	1.9	1.8
0614*	1/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.19	-0.10	-0.05	0.012	-0.10	0.0820	5.1	-0.2	-1.0	3.9
0614*	4/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.24	-0.10	-0.05	0.003	-0.10	0.0720	7.0	-0.2	-1.0	2.1
0614*	7/13/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.16	-0.10	-0.05	0.008	-0.10	0.0660	4.8	-0.2	2.3	1.9
0614*	10/7/93	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	0.17	-0.10	-0.05	0.002	-0.10	0.0370	1.8	-0.2	1.8	2.9
0614*	1/6/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.17	-0.10	-0.05	-0.001	-0.10	0.0480	-2.6	-0.2	-1.0	2.6
0614*	4/12/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.21	-0.10	-0.05	0.004	-0.10	0.0520	-2.5	-0.2	5.2	1.7
0614*	7/20/94	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.24	-0.10	-0.05	0.001	-0.10	0.0540	4.7	-0.2	-1.0	3.8
0614*	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.41	-0.10	-0.05	-0.001	-0.10	0.0590	3.0	-0.2	-1.0	4.1
0614*	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.23	-0.10	-0.05	-0.001	-0.10	0.0400	4.2	-0.2	-1.0	5.6
0614*	4/4/95	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.33	-0.10	-0.05	0.001	-0.10	0.0440	4.1	-0.2	-1.0	5.7
0614*	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.30	-0.10	-0.05	0.003	-0.10	0.0520	15.6	0.5	-1.0	22.8
0614*	10/3/95	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.31	-0.1	-0.05	-0.001	-0.10	0.0450	2	-0.2	1.7	6.2
0614*	1/3/96	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	0.35	-0.1	-0.05	-0.001	-0.10	0.0470	7.2	0.7	1.5	12
0614*	4/2/96	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	0.32	-0.1	-0.05	-0.001	-0.10	0.0500	4.6	-0.2	-1.0	3.5
0614*	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	0.37	-0.1	-0.05	-0.001	-0.10	0.0530	5.9	-0.2	-1.0	5.3

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
	NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
	EPA Standard	NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
0619	4/3/89	6887.9	6.8	7.76	5,148	551	563	157	8.2	238	3,729	19.2	0.55	0.39	-0.00100	-0.001	-0.005
0619	7/23/89	6888.1	6.6	6.50	5,513	593	596	184	8.4	176	3,852	35.0	0.61	0.34	-0.00100	-0.001	-0.005
0619	10/12/89	6888.2	6.7	7.28	5,086	486	491	158	11.1	229	3,251	36.6	0.44	1.56	-0.00100	-0.001	-0.005
0619	1/10/90	6887.6	6.5	7.08	5,278	505	539	168	8.8	206	3,360	40.5	0.74	1.01	-0.00100	-0.001	-0.005
0619	4/6/90	6887.6	6.8	6.92	4,840	527	512	150	8.8	251	2,966	38.5	0.69	0.22	-0.00100	-0.001	-0.005
0619	7/3/90	6887.0	6.5	7.32	5,020	527	478	151	7.8	234	3,160	34.2	0.27	0.09	-0.00100	-0.001	-0.005
0619	10/3/90	6886.9	6.7	7.21	4,526	487	392	147	10.1	254	2,738	36.6	0.13	-0.01	-0.00100	-0.001	-0.005
0619	1/15/91	6887.2	6.5	6.59	5,538	572	611	185	12.1	176	3,616	41.4	0.54	0.18	-0.00100	-0.001	-0.005
0619	4/2/91	6887.6	6.4	6.50	5,610	479	459	172	8.0	184	3,589	43.1	0.63	1.00	-0.00100	-0.001	-0.005
0619	7/17/91	6888.1	6.4	7.15	5,446	452	471	168	7.9	195	3,882	43.7	0.68	0.17	-0.00100	-0.001	-0.005
0619	10/15/91	6888.5	6.4	7.02	5,399	540	508	189	7.6	165	3,520	44.8	0.63	0.17	-0.00100	-0.001	-0.005
0619	1/15/92	6888.6	6.4	7.34	5,182	455	544	177	7.8	231	3,398	53.5	1.20	0.87	-0.00100	-0.001	-0.005
0619	4/8/92	6888.6	6.4	6.52	5,323	537	466	204	9.4	180	3,504	41.8	0.82	-0.10	-0.00100	-0.001	-0.005
0619	7/8/92	6888.7	6.3	7.64	5,017	500	548	302	12.9	175	3,863	41.7	1.04	3.70	-0.00100	-0.001	-0.005
0619	10/7/92	6889.0	6.5	7.26	5,257	538	499	222	10.2	168	3,427	39.5	0.59	5.20	-0.00100	-0.001	-0.005
0619	1/6/93	6889.3	6.5	7.06	5,176	563	507	315	12.6	166	3,487	252	0.13	51.8	-0.00100	-0.001	-0.005
0619	4/6/93	6889.7	6.6	7.14	5,314	487	439	213	7.0	272	3,359	46.6	0.68	0.60	-0.00100	-0.001	-0.005
0619	7/13/93	6889.6	6.6	6.66	5,057	531	471	200	8.1	190	3,310	46.2	0.66	0.29	-0.00100	-0.001	-0.005
0619	10/7/93	6889.5	6.5	6.57	4,615	512	460	188	7.4	165	3,207	43.5	0.50	-0.10	-0.00100	-0.001	-0.005
0619	1/6/94	6889.8	6.6	7.01	5,111	505	416	179	7.0	171	3,192	50.5	2.23	-0.10	-0.00100		
0619	4/12/94	6889.7	6.6	7.03	4,764	502	432	177	7.0	173	3,035	45.8	1.64	39.8	-0.00100		
0619	7/20/94	6889.5	6.6	6.66	5,111	565	427	158	7.5	177	3,424	45.5	0.60	-0.10	-0.00100		
0619	10/4/94	6889.7	6.7	7.56	5,045	573	453	187	8.1	200	3,658	46.0	0.62	-0.10	-0.00100		
0619	1/4/95	6889.5	6.5	7.21	5,078	580	432	172	8.8	203	3,349	44.8	1.19	-0.10	-0.00100		
0619	4/5/95	6889.4	6.7	6.94	5,148	540	500	174	7.7	212	3,405	47.0	1.30	0.13	-0.00100		
0619	7/6/95	6888.0	6.7	7.66	4,288	515	410	153	7.2	216	2,963	40.0	0.74	-0.10	-0.00100		
0619	10/3/95	6888.9	6.3	7.78	4,677	530	457	175	7.5	192	3,255	41.0	0.74	0.17	-0.00100		
0619	1/3/96	6888.8	6.7	7.31	4,731	505	445	182	7.8	179	3,260	39.5	0.62	0.12	-0.00100		
0619	4/2/96	6888.6	6.8	7.90	5,039	545	473	164	7.9	204	3,395	47.0	0.52	0.11	-0.00100		
0619	7/7/96	6888.3	6.4	7.15	5,207	515	450	180	8.6	179	3,195	50.0	0.69	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
0619	4/3/89		-0.001	-0.050	-0.01		-0.05	1.90		-0.05	-0.001	-0.10	0.0067	-1.9	1.4	-1.0	2.3
0619	7/23/89	-0.10	-0.001	-0.050	-0.01	-0.010	-0.05	2.00	-0.10	-0.05	-0.001	-0.10	0.0034	6.2	4.9	-1.0	9.1
0619	10/12/89	-0.10	-0.001	-0.050	-0.01	0.020	-0.05	1.30	-0.10	-0.05	-0.001	-0.10	0.0110	3.3	-0.2	-1.0	1.7
0619	1/10/90	-0.10	-0.001	-0.050	-0.01	0.030	-0.05	1.40	-0.10	-0.05	-0.001	-0.10	0.0090	3.1	-0.2	-1.0	1.5
0619	4/6/90	-0.10	-0.001	-0.050	-0.01	-0.010	-0.05	1.00	-0.10	-0.05	0.001	-0.10	0.0090	3.7	-0.2	-1.0	2.5
0619	7/3/90	-0.10	-0.001	-0.050	-0.01	0.010	-0.05	1.23	-0.10	-0.05	-0.001	-0.10	0.0068	-2.7	0.5	-1.0	2.0
0619	10/3/90	-0.10	-0.001	-0.050	-0.01	0.030	-0.05	0.89	-0.10	-0.05	-0.001	-0.10	0.0080	4.0	-0.2	-1.0	-1.0
0619	1/15/91	-0.10	-0.001	-0.010	0.01	-0.010	-0.05	2.50	-0.10	-0.05	-0.001	-0.10	0.0050	7.3	-0.2	2.5	3.1
0619	4/2/91	0.12	-0.001	-0.010	-0.01	0.010	-0.05	2.01	-0.10	-0.05	-0.001	-0.10	0.0050	5.0	-0.2	-1.0	2.0
0619	7/17/91	-0.10	-0.001	-0.010	-0.01	0.010	-0.05	-0.01	-0.10	-0.05	-0.001	-0.10	0.0040	2.1	0.2	1.6	1.0
0619	10/15/91	0.27	0.001	-0.010	-0.01	-0.01	-0.05	2.22	-0.10	-0.05	-0.001	-0.10	0.0090	5.2	-0.2	-1.0	-1.0
0619	1/15/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.82	-0.10	-0.05	0.003	-0.10	0.0070	2.4	-0.2	-1.0	1.0
0619	4/8/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	1.92	-0.10	-0.05	-0.001	-0.10	0.0060	2.5	-0.2	-1.0	-1.0
0619	7/8/92	0.14	-0.001	-0.010	-0.01	-0.01	-0.05	1.91	-0.10	-0.05	0.001	-0.10	0.0030	6.2	-0.2	1.1	1.5
0619	10/7/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	2.04	-0.10	-0.05	-0.001	-0.10	0.0003	4.9	-0.2	-1.0	1.9
0619	1/6/93	-0.10	0.003	-0.010	-0.01	0.01	-0.05	0.66	-0.10	-0.05	0.003	-0.10	0.9750	2.1	-0.2	-1.0	-1.0
0619	4/6/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.90	-0.10	-0.05	-0.001	-0.10	0.0070	7.9	-0.2	1.9	-1.0
0619	7/13/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.80	-0.10	-0.05	-0.001	-0.10	0.0060	4.9	-0.2	2.7	1.8
0619	10/7/93	0.32	0.002	-0.010	-0.01	0.01	-0.05	1.75	-0.10	-0.05	0.002	-0.10	0.0050	10.3	-0.2	-1.0	1.4
0619	1/6/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.80	-0.10	-0.05	-0.001	-0.10	0.0040	5.0	-0.2	1.4	7.4
0619	4/12/94	0.21	-0.001	-0.010	-0.01	0.02	-0.05	1.75	-0.10	-0.05	-0.001	-0.10	0.0050	9.9	-0.2	5.8	14.0
0619	7/20/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.57	-0.10	-0.05	-0.001	-0.10	0.0100	2.8	-0.2	-1.0	3.6
0619	10/4/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.85	-0.10	-0.05	-0.001	-0.10	0.0120	3.2	-0.2	2.5	4.3
0619	1/4/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.45	-0.10	0.07	-0.001	-0.10	0.0100	5.2	-0.2	-1.0	7.3
0619	4/5/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.78	-0.10	-0.05	-0.001	-0.10	0.0080	4.4	-0.2	3.7	5.9
0619	7/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.65	-0.10	-0.05	-0.001	-0.10	0.0065	4.2	0.6	-1.0	2.7
0619	10/3/95	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	1.79	-0.1	-0.05	-0.001	-0.10	0.0101	-2.3	-0.2	-1.0	3.1
0619	1/3/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.78	-0.1	-0.05	-0.001	-0.10	0.0067	-2.5	1	-1.0	2.5
0619	4/2/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.71	-0.1	-0.05	-0.001	-0.10	0.0180	6.5	-0.2	4.1	3.5
0619	7/7/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.9	-0.1	-0.05	-0.001	-0.10	0.0080	-2.7	-0.2	-1.0	1.1

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
EPA 02	4/20/89	6843.3	6.5	6.89	3,936	503	257	242	8.4	234	2,674	31.7	0.64	0.03	-0.00100	-0.001	-0.005
EPA 02	7/26/89	6843.9	6.8	6.80	3,959	526	275	267	8.9	256	2,463	32.1	0.89	0.01	-0.00100	-0.001	-0.005
EPA 02	10/5/89	6844.3	6.4	7.00	4,088	528	264	268	11.7	262	2,589	29.7	0.89	0.08	-0.00100	-0.001	-0.005
EPA 02	1/17/90	6844.8	6.2	6.62	3,622	446	216	265	8.2	293	2,197	29.3	0.77	0.12	-0.00100	-0.001	-0.005
EPA 02	4/18/90	6845.0	6.5	6.80	3,704	440	220	250	7.8	293	2,173	30.3	0.88	0.03	-0.00100	-0.001	-0.005
EPA 02	7/17/90	6844.9	6.6	6.70	3,623	479	208	253	8.5	305	2,104	28.8	0.51	0.05	-0.00100	-0.001	-0.005
EPA 02	10/16/90	6845.1	6.4	7.17	3,965	445	230	259	7.5	259	2,462	36.2	0.79	0.01	-0.00100	-0.001	-0.005
EPA 02	1/8/91	6845.3	6.5	6.85	3,834	451	236	263	11.0	264	2,388	35.6	0.76	0.01	-0.00100	-0.001	-0.005
EPA 02	4/17/91	6845.8	6.3	7.37	3,708	452	238	268	7.6	284	2,300	24.6	0.67	-0.01	-0.00100	-0.001	-0.005
EPA 02	7/3/91	6846.0	6.4	6.83	4,500	523	285	230	7.8	183	3,175	38.1	1.07	-0.01	-0.00100	-0.001	-0.005
EPA 02	10/22/91	6846.5	6.4	6.59	3,843	475	244	242	7.7	275	2,435	34.4	0.96	0.04	-0.00100	-0.001	-0.005
EPA 02	1/23/92	6846.7	6.5	7.02	3,478	455	235	229	7.4	226	2,364	32.6	0.88	-0.01	-0.00100	-0.001	-0.005
EPA 02	4/2/92	6847.1	6.4	7.86	3,799	483	243	279	8.4	282	2,486	29.5	0.92	-0.01	-0.00100	-0.001	-0.005
EPA 02	7/16/92	6846.5	6.5	6.71	3,885	412	224	290	9.0	237	2,606	33.4	0.58	0.20	-0.00100	-0.001	-0.005
EPA 02	10/15/92	6846.7	6.3	7.02	4,554	580	300	286	10.6	198	2,890	36.1	0.92	-0.10	-0.00100	-0.001	-0.005
EPA 02	1/14/93	6847.0	6.6	7.12	3,380	436	196	213	8.3	276	2,201	29.0	0.88	-0.10	-0.00100	-0.001	-0.005
EPA 02	4/15/93	6847.5	6.6	7.68	3,534	455	186	255	6.3	270	2,292	30.4	0.67	0.20	-0.00100	-0.001	-0.005
EPA 02	7/21/93	6848.2	6.6	7.43	3,321	458	207	256	8.0	315	2,247	24.3	0.40	-0.10	-0.00100	-0.001	-0.005
EPA 02	10/12/93	6845.5	6.7	6.50	3,692	498	222	231	7.2	300	2,274	29.6	0.57	-0.10	-0.00100	-0.001	-0.005
EPA 02	1/11/94	6847.8	6.7	7.10	2,674	353	160	194	5.6	300	1,765	26.3	0.55	-0.10	-0.00100		
EPA 02	4/19/94	6847.9	6.6	8.05	2,781	357	159	223	6.9	284	1,771	24.3	0.78	-0.10	-0.00100		
EPA 02	7/26/94	6848.1	6.7	6.93	3,353	469	216	223	6.8	273	2,026	26.6	0.59	-0.10	-0.00100		
EPA 02	10/11/94	6848.0	6.7	7.70	3,036	462	182	222	6.4	304	2,057	25.2	0.71	-0.10	-0.00100		
EPA 02	1/10/95	6848.1	6.6	7.16	3,316	486	144	208	7.6	294	2,057	27.5	0.98	-0.10	-0.00100		
EPA 02	4/6/95	6848.5	6.7	6.91	3,267	423	183	216	6.7	295	2,070	26.5	1.06	-0.10	-0.00100		
EPA 02	7/11/95	6848.4	6.8	7.14	2,674	390	177	203	6.2	325	1,705	25.4	0.81	-0.10	-0.00100		
EPA 02	10/10/95	6842.6	6.7	7.43	2,782	393	156	216	6.4	321	1,741	24.2	0.6	-0.10	-0.00100		
EPA 02	1/9/96	6848.5	6.8	7.73	2,801	382	155	213	6.7	334	1,791	24.7	0.46	-0.10	-0.00100		
EPA 02	4/10/96	6842.7	6.9	7.70	3,018	408	168	191	6.0	321	1,831	22.7	0.52	-0.10	-0.00100		
EPA 02	7/17/96	6848.5	6.7	6.88	3,042	390	164	208	16.0	312	1,746	29.0	0.45	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 02	4/20/89		-0.001	-0.050	-0.01		-0.05	2.90		-0.05	-0.001	-0.10	0.0029	2.6	-0.2	-1.0	-1.0
EPA 02	7/26/89	0.37	-0.001	-0.050	-0.01	0.06	-0.05	2.90	-0.10	0.07	-0.001	-0.10	0.0178	-2.6	1.4	-1.0	-1.0
EPA 02	10/5/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	2.80	-0.01	-0.05	-0.001	-0.10	0.0040	2.5	-0.2	3.4	1.1
EPA 02	1/17/90	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	2.60	-0.10	-0.05	-0.001	-0.10	0.0030	-1.6	0.4	-1.0	1.1
EPA 02	4/18/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	2.30	-0.10	-0.05	0.001	-0.10	0.0020	-2.8	-0.2	-1.0	2.3
EPA 02	7/17/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	2.29	-0.10	-0.05	-0.001	-0.10	0.0019	2.3	-0.2	-1.0	-1.0
EPA 02	10/16/90	-0.10	-0.001	-0.050	-0.01	0.01	-0.05	2.57	-0.10	-0.05	-0.001	-0.10	-0.0003	-1.9	-0.2	-1.0	-1.0
EPA 02	1/8/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.62	-0.10	-0.05	-0.001	-0.10	0.0196	-2.2	-0.2	-1.0	-1.0
EPA 02	4/17/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.12	-0.10	-0.05	-0.001	-0.10	0.0010	2.8	-0.2	-1.0	1.0
EPA 02	7/3/91	0.30	-0.001	-0.010	-0.01	-0.01	-0.05	3.02	0.03	-0.05	-0.001	-0.10	-0.0003	3.9	-0.2	-1.0	-1.0
EPA 02	10/22/91	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	2.09	-0.10	-0.05	-0.001	-0.10	0.0010	3.9	-0.2	-1.0	-1.0
EPA 02	1/23/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.77	-0.10	-0.05	-0.001	-0.10	0.0030	-1.3	-0.2	1.3	-1.0
EPA 02	4/2/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.46	-0.10	-0.05	-0.001	-0.10	0.0090	4.6	-0.2	3.0	-1.0
EPA 02	7/16/92	0.13	-0.001	-0.010	-0.01	-0.01	-0.05	2.30	-0.10	-0.05	-0.001	-0.10	0.0010	8.1	-0.2	2.5	1.9
EPA 02	10/15/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.23	-0.10	-0.05	-0.001	-0.10	-0.0003	7.5	-0.2	2.1	1.3
EPA 02	1/14/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.27	-0.10	-0.05	-0.001	-0.10	0.0010	-1.2	-0.2	-1.0	-1.0
EPA 02	4/15/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.15	-0.10	-0.05	-0.001	-0.10	0.0010	-1.5	-0.2	1.6	-1.0
EPA 02	7/21/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.59	-0.10	-0.05	-0.001	-0.10	-0.0003	3.4	-0.2	-1.0	-1.0
EPA 02	10/12/93	0.10	-0.001	-0.010	-0.01	0.01	-0.05	2.11	-0.10	-0.05	-0.001	-0.10	0.0020	3.5	-0.2	2.8	4.5
EPA 02	1/11/94	0.13	-0.001	-0.010	-0.01	-0.01	-0.05	1.78	-0.10	-0.05	-0.001	-0.10	-0.0003	5.0	-0.2	-1.0	8.1
EPA 02	4/19/94	-0.10	0.001	-0.010	-0.01	0.02	-0.05	2.00	-0.10	-0.05	-0.001	-0.10	0.0010	2.9	-0.2	-1.0	4.1
EPA 02	7/26/94	0.16	-0.001	-0.010	-0.01	-0.01	-0.05	1.81	-0.10	-0.05	-0.001	-0.10	0.0020	-1.2	-0.2	-1.0	-1.0
EPA 02	10/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.52	-0.10	-0.05	-0.001	-0.10	0.0020	-2.0	-0.2	-1.0	1.2
EPA 02	1/10/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.82	-0.10	-0.05	-0.001	-0.10	0.0020	-2.1	-0.2	-1.0	2.8
EPA 02	4/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.59	-0.10	-0.05	-0.001	-0.10	0.0010	3.0	-0.2	-1.0	3.8
EPA 02	7/11/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.47	-0.10	-0.05	-0.001	-0.10	0.0012	-2.0	-0.2	-1.0	3.4
EPA 02	10/10/95	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	1.48	-0.1	-0.05	-0.001	-0.10	0.0011	-2.2	-0.2	-1.0	1.1
EPA 02	1/9/96	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	1.48	-0.1	-0.05	-0.001	-0.10	0.0026	-2.0	-0.2	-1.0	-1.0
EPA 02	4/10/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.52	-0.1	-0.05	-0.001	-0.10	0.0008	-1.7	0.7	-1.0	-1.0
EPA 02	7/17/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	1.58	-0.1	-0.05	-0.001	-0.10	0.0011	-1.9	0.9	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
EPA 04*	4/17/89	6868.4	6.8	7.10	4,506	529	350	217	8.5	184	2,962	36.5	0.81	-0.01	-0.00100	-0.001	-0.005
EPA 04*	7/26/89	6868.8	6.9	5.97	4,433	559	373	242	9.1	183	3,039	37.1	0.91	0.03	-0.00100	-0.001	-0.005
EPA 04*	10/5/89	6869.1	6.5	6.90	4,760	560	371	244	12.3	182	3,043	38.9	0.98	0.10	-0.00100	-0.001	-0.005
EPA 04*	1/16/90	6869.4	6.5	6.76	4,554	491	343	229	9.0	217	2,919	37.5	0.99	0.10	-0.00100	-0.001	-0.005
EPA 04*	4/17/90	6869.3	6.5	6.90	4,604	500	347	223	7.7	194	2,851	38.4	1.02	0.15	-0.00100	-0.001	-0.005
EPA 04*	7/17/90	6869.1	6.4	6.70	4,642	526	367	226	9.2	201	2,855	36.4	0.70	0.06	-0.00100	-0.001	-0.005
EPA 04*	10/16/90	6869.1	6.4	7.15	4,645	515	368	232	9.2	193	2,987	42.7	0.82	0.11	-0.00100	-0.001	-0.005
EPA 04*	1/8/91	6869.0	6.5	6.65	4,644	494	337	225	17.0	185	3,039	40.1	0.99	0.04	-0.00100	-0.001	-0.005
EPA 04*	4/17/91	6869.5	6.5	7.22	4,759	525	392	238	8.9	161	3,260	40.2	0.97	-0.01	-0.00100	-0.001	-0.005
EPA 04*	7/3/91	6869.6	6.6	6.80	4,686	504	352	210	7.7	184	3,345	37.8	1.04	0.05	-0.00100	-0.001	-0.005
EPA 04*	10/22/91	6870.2	6.5	6.56	4,651	502	350	221	8.2	188	2,948	44.2	1.16	0 04	-0.00100	-0.001	-0.005
EPA 04*	1/23/92	6870.5	6.4	6.52	4,263	490	344	211	8.0	184	2,997	42.4	1.14	-0.01	-0.00100	-0.001	-0.005
EPA 04*	4/2/92	6870.5	6.4	7.82	4,554	495	348	258	9.3	210	2,963	37.3	1.19	-0.01	-0.00100	-0.001	-0.005
EPA 04*	7/15/92	6869.7	6.6	7.55	4,808	482	336	238	9.0	173	3,072	41.2	0.73	0.20	-0.00100	-0.001	-0.005
EPA 04*	10/14/92	6869.8	6.8	6.87	4,904	526	357	230	8.6	174	3,164	40.2	0.79	-0.10	-0.00100	-0.001	-0.005
EPA 04*	1/13/93	6870.0	6.6	6.98	4,631	506	343	228	9.7	177	3,107	38.8	0.21	-0.10	-0.00100	-0.001	-0.005
EPA 04*	4/15/93		6.6	7.05	4,684	452	337	242	7.4	175	3,006	39.4	0.98	0.10	-0.00100	-0.001	-0.005
EPA 04*	7/20/93	6871.1	6.7	7.11	4,351	519	369	211	7.8	203	3,081	37.4	0.84	-0.10	-0.00100	-0.001	-0.005
EPA 04*	10/12/93	6868.8	7.1	6.47	4,585	533	332	217	7.8	189	2,962	34.3	0.79	-0.10	-0.00100	-0.001	-0.005
EPA 04*	1/11/94	6869.5	6.8	6.88	4,530	543	336	219	7.2	178	3,119	35.8	0.89	-0.10	-0.00100		
EPA 04*	4/20/94	6870.5	6.7	6.44	4,612	544	346	233	7.3	167	3,065	37.9	1.42	-0.10	-0.00100		
EPA 04*	7/26/94	6870.4	6.7	6.45	4,420	578	359	225	8.2	172	2,863	35.7	0.93	-0.10	-0.00100		
EPA 04*	10/11/94	6870.3	6.6	7.42	4,528	539	380	229	8.3	195	3,133	37.9	1.11	-0.10	-0.00100		
EPA 04*	1/10/95	6870.4	6.5	6.98	4,598	640	286	210	9.5	190	3,090	38.3	1.48	-0.10	-0.00100		
EPA 04*	4/6/95	6870.6	6.6	6.99	4,715	640	328	212	8.3	189	3,268	39.3	1.70	-0.10	-0.00100		
EPA 04*	7/11/95	6870.3	6.8	7.44	3,894	485	325	194	7.4	253	2,490	35.1	1.29	-0.10	-0.00100		
EPA 04*	10/10/95	6870.4	6.7	7.04	4,004	515	335	220	8.0	217	2,641	33.1	1.04	-0.10	-0.00100		
EPA 04*	1/9/96	6870.3	6.8	7.89	4,093	505	335	213	8.3	257	2,637	34.4	0.75	-0.10	-0.00100		
EPA 04*	4/10/96	6870.2	6.9	7.63	4,412	544	338	199	7.6	223	3,002	36.6	0.85	-0.10	-0.00100		
EPA 04*	7/17/96	6870.2	6.8	6.76	4,161	485	300	221	8.3	216	2,580	38.0	0.69	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 04*	4/17/89		-0.001	-0.050	-0.01		-0.05	2.80		-0.05	-0.001	-0.10	0.0004	3.1	-0.2	-1.0	1.2
EPA 04*	7/26/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	3.40	-0.10	-0.05	-0.001	-0.10	0.0040	3.3	0.9	-1.0	3.0
EPA 04*	10/5/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	3.10	-0.01	-0.05	-0.001	-0.10	0.0030	3.9	0.3	2.2	3.0
EPA 04*	1/16/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	3.40	-0.10	-0.05	-0.001	-0.10	0.0007	4.7	2.8	-1.0	3.5
EPA 04*	4/17/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	2.50	-0.10	-0.05	-0.001	-0.10	0.0020	2.4	-0.2	2.4	1.5
EPA 04*	7/17/90	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	3.31	-0.10	-0.05	-0.001	-0.10	0.0010	5.2	-0.2	1.5	-1.0
EPA 04*	10/16/90	-0.10	-0.001	-0.050	-0.01	0.01	-0.05	3.31	-0.10	-0.05	-0.001	-0.10	-0.0003	-2.5	-0.2	1.1	2.0
EPA 04*	1/8/91	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	3.27	-0.10	-0.05	-0.001	-0.10	-0.0003	4.2	-0.2	-1.0	2.0
EPA 04*	4/17/91	0.11	-0.001	-0.010	-0.01	-0.01	-0.05	3.87	-0.10	-0.05	-0.001	-0.10	0.0010	5.6	-0.2	-1.0	-1.0
EPA 04*	7/3/91	0.30	-0.001	-0.010	-0.01	0.01	-0.05	3.21	0.03	-0.05	-0.001	-0.10	0.0029	6.6	-0.2	-1.0	1.0
EPA 04*	10/22/91	-0.10	-0.001	-0.010	-0.01	0.02	-0.05	3.28	-0.10	-0.05	-0.001	-0.10	0.0684	4.6	-0.2	1.8	-1.0
EPA 04*	1/23/92	0.14	-0.001	-0.010	-0.01	-0.01	-0.05	2.95	-0.10	-0.05	-0.001	-0.10	0.0070	-2.2	-0.2	1.9	1.0
EPA 04*	4/2/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.34	-0.10	-0.05	-0.001	-0.10	0.0010	5.9	-0.2	9.1	-1.0
EPA 04*	7/15/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.19	-0.10	-0.05	-0.001	-0.10	0.0040	6.9	-0.2	-1.0	2.0
EPA 04*	10/14/92	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.41	-0.10	-0.05	-0.001	-0.10	0.0290	9.0	-0.2	-1.0	2.1
EPA 04*	1/13/93	0.10	-0.001	-0.010	-0.01	0.02	-0.05	3.47	-0.10	-0.05	-0.001	-0.10	-0.0003	14.8	-0.2	-1.0	1.1
EPA 04*	4/15/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.55	-0.10	-0.05	-0.001	-0.10	-0.0003	2.1	-0.2	-1.0	1.2
EPA 04*	7/20/93	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.81	-0.10	-0.05	-0.001	-0.10	-0.0003	4.6	-0.2	-1.0	1.5
EPA 04*	10/12/93	-0.10	-0.001	-0.010	-0.01	0.01	-0.05	3.08	-0.10	-0.05	-0.001	-0.10	0.0030	3.9	-0.2	1.3	5.2
EPA 04*	1/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.59	-0.10	-0.05	-0.001	-0.10	0.0010	4.1	-0.2	-1.0	6.6
EPA 04*	4/20/94	0.15	0.002	-0.010	-0.01	-0.01	-0.05	2.77	-0.10	-0.05	-0.001	-0.10	0.0010	5.0	-0.2	1.8	6.7
EPA 04*	7/26/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.40	-0.10	-0.05	-0.001	-0.10	0.0020	7.0	-0.2	-1.0	9.7
EPA 04*	10/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.95	-0.10	-0.05	-0.001	-0.10	0.0010	3.9	-0.2	-1.0	5.2
EPA 04*	1/10/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.42	-0.10	-0.05	-0.001	-0.10	0.0010	4.2	0.2	3.0	5.6
EPA 04*	4/6/95	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	3.25	-0.10	-0.05	-0.001	-0.10	0.0010	4.4	-0.2	-1.0	6.1
EPA 04*	7/11/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.76	-0.10	-0.05	-0.001	-0.10	-0.0003	3.8	0.4	-1.0	5.0
EPA 04*	10/10/95	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	2.89	-0.1	-0.05	-0.001	-0.10	0.0008	5.7	0.4	-1.0	2.2
EPA 04*	1/9/96	-0.10	0.003	-0.010	-0.01	-0.01	-0.05	2.83	-0.1	-0.05	-0.001	-0.10	0.0010	3.5	-0.2	2.6	-1.0
EPA 04*	4/10/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.20	-0.1	-0.05	-0.001	-0.10	-0.0003	4.5	-0.2	-1.0	-1.0
EPA 04*	7/17/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.85	-0.1	-0.05	-0.001	-0.10	0.0009	-1.5	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
EPA 05	4/17/89	6895.2	6.6	7.25	4,884	560	454	110	7.7	322	2,985	59.3	0.21	3.10	-0.00100	-0.001	-0.005
EPA 05	7/26/89	6895.2	6.5	6.15	5,192	625	508	151	8.5	295	3,279	93.1	0.30	15.8	-0.00100	-0.001	-0.005
EPA 05	10/5/89	6895.4	6.1	6.90	5,726	639	531	171	12.3	512	3,255	141	0.12	29.0	-0.00100	-0.001	-0.005
EPA 05	1/16/90	6895.6	6.1	6.40	5,698	628	539	186	9.5	567	3,175	169	0.18	53.2	-0.00100	-0.001	-0.005
EPA 05	4/17/90	6895.5	6.0	6.80	5,882	662	555	199	9.5	671	3,159	172	0.31	53.0	-0.00100	-0.001	-0.005
EPA 05	7/17/90	6895.1	6.0	6.46	5,886	723	548	204	10.3	672	3,146	152	0.15	41.0	-0.00100	-0.001	-0.005
EPA 05	10/16/90	6895.0	6.0	7.11	6,192	647	540	215	9.0	742	3,391	199	0.18	53.0	-0.00100	-0.001	-0.005
EPA 05	1/8/91	6894.8	6.1	7.22	5,554	641	485	171	7.3	586	3,088	137	0.27	36.0	-0.00100	-0.001	-0.005
EPA 05	4/17/91	6894.9	5.9	7.43	6,608	678	591	241	10.6	380	3,536	219	0.23	68.0	-0.00100	-0.001	-0.005
EPA 05	7/3/91	6894.6	6.1	6.69	5,926	634	512	187	8.7	326	3,440	146	0.38	39.4	-0.00100	-0.001	-0.005
EPA 05	10/22/91	6894.7	6.0	6.95	7,076	676	712	263	10.2	653	3,873	226	0.32	43.1	-0.00100	-0.001	-0.005
EPA 05	1/23/92	6894.7	6.1	6.81	6,207	607	679	246	9.7	312	3,679	183	0.25	26.3	-0.00100	-0.001	-0.005
EPA 05	4/2/92	6894.6	5.9	7.21	7,719	703	695	336	13.3	1,091	4,080	289	0.32	28.9	-0.00100	-0.001	-0.005
EPA 05	7/15/92	6894.2	6.2	7.18	7,158	570	659	328	11.4	878	3,934	192	0.23	29.6	-0.00100	-0.001	-0.005
EPA 05	10/15/92	6894.1	6.2	6.85	7,824	612	774	365	12.9	857	4,186	215	0.19	67.4	-0.00100	-0.001	-0.005
EPA 05	1/12/93	6894.5	6.1	6.78	8,011	599	791	344	12.7	880	4,407	214	0.19	93.5	-0.00100	-0.001	-0.005
EPA 05	4/15/93	6894.5	6.1	7.01	7,246	621	751	303	8.8	926	4,024	179	0.34	118	-0.00100	-0.001	-0.005
EPA 05	7/20/93	6894.3	6.2	7.14	6,893	598	748	371	9.7	1,000	3,990	224	0.22	91.6	-0.00100	-0.001	-0.005
EPA 05	10/12/93	6892.0	6.5	6.76	7,441	599	923	345	9.4	1,177	4,387	197	0.05	72.0	-0.00100	-0.001	-0.005
EPA 05	1/11/94	6894.0	6.5	7.19	8,037	549	857	318	8.4	1,109	4,491	208	0.15	95.2	-0.00100		
EPA 05	4/19/94	6893.8	6.3	7.72	8,035	625	930	408	10.2	693	4,651	121	0.25	91.0	-0.00100		
EPA 05	7/26/94	6893.7	6.3	7.32	7,684	601	926	399	9.5	1,116	4,492	209	0.12	91.9	-0.00100		
EPA 05	10/11/94	6893.5	6.3	7.41	7,630	572	998	371	9.4	1,077	4,448	204	0.13	99.8	-0.00100		
EPA 05	1/11/95	6893.5	6.3	7.02	8,106	581	960	325	10.8	1,032	4,533	192	0.17	67.3	-0.00100		
EPA 05	4/11/95	6894.1	6.5	6.85	8,693	595	1,070	388	10.4	1,168	4,895	245	0.36	96.0	-0.00100		
EPA 05	7/11/95	6893.3	6.5	7.41	8,075	547	1,043	388	9.8	1,150	4,604	205	0.47	82.9	-0.00100		
EPA 05	10/10/95	6893.4	6.5	7.56	8,070	550	1,018	385	10.2	1,258	4,529	201	0.67	86.6	-0.00100		
EPA 05	1/9/96	6893.2	6.6	7.52	7,693	508	966	376	10.9	1,182	4,420	198	1.44	94.0	-0.00100		
EPA 05	4/10/96	6893.1	6.7	7.54	8,569	590	1,110	362	10.7	1,221	5,200	211	2.74	89.2	-0.00100		
EPA 05	7/17/96	6893.0	6.4	6.87	8,522	510	957	372	11.9	1,275	4,404	221	1.05	100	0.00142		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 05	4/17/89		-0.001	-0.050	-0.01		-0.05	1.70		-0.05	-0.001	-0.10	0.0019	2.2	-0.2	-1.0	-1.0
EPA 05	7/26/89	-0.10	-0.001	-0.050	-0.01	0.020	-0.05	1.70	-0.10	-0.05	0.001	-0.10	0.0069	3.0	3.2	1.2	2.2
EPA 05	10/5/89	-0.10	-0.001	-0.050	-0.01	0.040	-0.05	1.30	-0.01	-0.05	-0.001	-0.10	0.0220	2.9	0.3	-1.0	1.5
EPA 05	1/16/90	-0.10	-0.001	-0.050	-0.01	-0.010	-0.05	1.80	-0.10	-0.05	0.002	-0.10	0.0320	3.5	0.2	-1.0	1.1
EPA 05	4/17/90	-0.10	-0.001	-0.050	-0.01	0.030	-0.05	2.20	-0.10	0.10	-0.001	-0.10	0.0410	3.3	-0.2	-1.0	1.8
EPA 05	7/17/90	-0.10	-0.001	-0.050	-0.01	0.030	-0.05	2.36	-0.10	-0.05	0.001	-0.10	0.0475	4.4	-0.2	3.6	2.0
EPA 05	10/16/90	-0.10	-0.001	-0.050	-0.01	0.030	-0.05	2.79	-0.10	-0.05	-0.001	-0.10	0.0371	2.5	-0.2	-1.0	-1.0
EPA 05	1/8/91	-0.10	-0.001	-0.010	-0.01	0.030	-0.05	3.17	-0.10	-0.05	0.001	-0.10	0.0003	-1.8	-0.2	-1.0	-1.0
EPA 05	4/17/91	0.27	-0.001	-0.010	-0.01	0.060	-0.05	3.81	-0.10	0.09	0.001	-0.10	0.0400	-1.6	-0.2	2.3	-1.0
EPA 05	7/3/91	0.15	-0.001	-0.010	-0.01	0.030	-0.05	2.80	0.10	-0.05	0.001	-0.10	0.0422	3.8	-0.2	-1.0	-1.0
EPA 05	10/22/91	0.17	-0.001	-0.010	-0.01	0.050	-0.05	3.31	-0.10	0.10	0.003	-0.10	0.0021	2.5	-0.2	1.8	-1.0
EPA 05	1/23/92	-0.10	-0.001	-0.010	-0.01	0.060	-0.05	3.00	-0.10	0.08	-0.001	-0.10	0.0640	1.7	-0.2	1.4	-1.0
EPA 05	4/2/92	-0.10	-0.001	-0.010	-0.01	0.050	-0.05	2.56	-0.10	-0.05	0.013	-0.10	0.0020	3.0	-0.2	6.0	-1.0
EPA 05	7/15/92	-0.10	-0.001	-0.010	-0.01	0.060	-0.05	2.31	-0.10	0.07	0.003	-0.10	0.0050	5.4	-0.2	1.5	-1.0
EPA 05	10/15/92	-0.10	0.001	-0.010	-0.01	0.100	-0.05	1.96	-0.10	0.12	0.005	-0.10	0.1050	-2.3	-0.2	-1.0	1.9
EPA 05	1/12/93	-0.10	-0.001	-0.010	-0.01	0.120	-0.05	1.65	-0.10	0.06	0.030	-0.10	0.0770	3.2	-0.2	-1.0	1.5
EPA 05	4/15/93	-0.10	-0.001	-0.010	-0.01	0.050	-0.05	1.95	-0.10	0.08	0.003	-0.10	0.0360	-1.3	-0.2	1.6	-1.0
EPA 05	7/20/93	-0.10	-0.001	-0.010	-0.01	0.070	-0.05	1.36	-0.10	0.09	0.005	-0.10	0.0730	4.2	-0.2	-1.0	1.8
EPA 05	10/12/93	-0.10	-0.001	-0.010	-0.01	0.080	-0.05	1.39	-0.10	0.08	0.004	-0.10	0.0840	4.2	-0.2	2.9	5.3
EPA 05	1/11/94	-0.10	-0.001	-0.010	-0.01	0.070	-0.05	1.45	-0.10	0.09	0.002	-0.10	0.1000	2.0	-0.2	-1.0	3.6
EPA 05	4/19/94	-0.10	0.001	-0.010	-0.01	0.120	-0.05	1.19	-0.10	-0.05	0.003	-0.10	0.1010	7.6	-0.2	1.0	10.6
EPA 05	7/26/94	0.16	-0.001	-0.010	-0.01	0.070	-0.05	1.27	-0.10	0.05	0.002	-0.10	0.1020	8.8	-0.2	1.4	12.8
EPA 05	10/11/94	-0.10	-0.001	-0.010	-0.01	0.090	-0.05	1.02	-0.10	0.14	0.002	-0.10	0.0950	-3.1	-0.2	-1.0	2.3
EPA 05	1/11/95	-0.10	-0.001	-0.010	-0.01	0.060	-0.05	1.11	-0.10	0.09	0.003	-0.10	0.1090	4.5	-0.2	-1.0	6.4
EPA 05	4/11/95	-0.10	-0.001	-0.010	-0.01	-0.010	-0.05	0.85	-0.10	-0.05	0.004	-0.10	0.1020	2.6	-0.2	-1.0	3.6
EPA 05	7/11/95	-0.10	-0.001	-0.010	-0.01	0.065	-0.05	0.60	-0.10	0.08	0.004	-0.10	0.0900	-2.1	-0.2	-1.0	5.6
EPA 05	10/10/95	-0.10	-0.001	-0.010	-0.01	0.05	-0.05	0.53	-0.1	0.05	0.012	-0.10	0.1132	6.2	0.7	-1.0	2.1
EPA 05	1/9/96	-0.10	-0.001	-0.010	-0.01	0.06	-0.05	0.49	-0.1	-0.05	0.018	-0.10	0.1240	2.5	-0.2	-1.0	1.5
EPA 05	4/10/96	-0.10	-0.001	-0.010	-0.01	0.05	-0.05	0.47	-0.1	0.05	0.001	-0.10	0.1260	3.5	0.7	-1.0	-1.0
EPA 05	7/17/96	-0.10	-0.001	-0.010	-0.01	0.06	-0.05	0.49	-0.1	0.06	0.004	-0.10	0.1250	-1.9	-0.2	-1.0	-1.0

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
EPA 07*	4/17/89	6907.8	5.1	4.31	7,750	482	850	190	9.3	0.0	5,263	166	3.20	88.0	-0.00100	-0.001	0.022
EPA 07*	7/26/89	6907.8	4.4	4.01	7,774	526	871	212	9.1	0.0	5,092	134	3.45	94.0	-0.00100	-0.001	-0.005
EPA 07*	10/5/89	6908.0	4.2	4.26	8,076	497	877	221	12.0	0.0	5,272	192	3.41	69.0	-0.00100	-0.001	-0.005
EPA 07*	1/16/90	6908.0	4.2	4.22	8,190	449	915	226	9.1	0.0	5,108	174	3.46	88.0	-0.00100	-0.001	-0.005
EPA 07*	4/17/90	6907.7	4.2	4.30	9,172	453	1,100	226	8.7	0.0	5,392	182	3.95	96.0	-0.00100	-0.001	-0.005
EPA 07*	7/17/90	6907.1	4.4	4.35	9,566	496	1,009	230	10.0	0.1	5,739	176	1.90	84.0	-0.00100	-0.001	-0.005
EPA 07*	10/9/90		4.4	4.63	8,003	449	928	241	10.5	10.0	5,204	169	1.17	36.2	-0.00100	-0.001	-0.005
EPA 07*	1/3/91		4.6	4.68	7,145	475	829	262	24.4	6.1	4,572	117	1.67	29.3	-0.00100	-0.001	-0.005
EPA 07*	4/17/91		5.0	5.37	6,918	454	757	252	12.4	15.0	4,676	117	1.30	40.5	-0.00100	-0.001	-0.005
EPA 07*	7/11/91		5.0	5.80	6,957	386	759	230	10.1	39.0	4,506	99.7	1.01	28.1	-0.00100	-0.001	-0.005
EPA 07*	10/17/91		5.2	5.69	6,827	473	712	257	12.6	39.3	4,296	111	1.25	25.0	-0.00100	-0.001	-0.005
EPA 07*	1/16/92		5.1	6.31	6,893	397	769	235	10.0	43.8	4,409	113	1.50	29.8	-0.00100	-0.001	-0.005
EPA 07*	4/13/92		5.2	6.25	6,768	409	568	263	11.6	68.6	4,167	116	1.10	25.1	-0.00100	-0.001	-0.005
EPA 07*	7/15/92		5.5	6.37	6,446	390	628	287	11.4	95.0	4,088	94.4	0.60	30.6	-0.00100	-0.001	-0.005
EPA 07*	10/7/92		5.6	6.14	6,406	449	654	333	15.2	112	4,150	90.8	0.85	15.3	-0.00100	-0.001	-0.005
EPA 07*	1/7/93		5.6	6.79	5,654	469	640	281	11.8	134	3,675	98.4	0.92	45.6	-0.00100	-0.001	-0.005
EPA 07*	4/7/93		5.6	6.32	5,787	409	639	293	9.2	108	4,101	115	0.78	35.9	-0.00100	-0.001	-0.005
EPA 07*	7/14/93		5.7	6.08	6,729	495	696	270	9.7	144	4,208	65.9	0.84	27.8	-0.00100	-0.001	-0.005
EPA 07*	10/7/93		5.6	6.07	5,989	460	678	250	9.6	142	4,049	106	0.75	41.4	-0.00100	-0.001	-0.005
EPA 07*	1/6/94		5.7	6.27	6,870	454	646	277	9.2	135	4,312	126	0.87	39.6	-0.00100		
EPA 07*	4/12/94		5.8	6.33	6,573	443	669	257	9.5	140	4,376	121	1.88	35.7	-0.00100		
EPA 07*	7/26/94		5.9	6.87	6,463	511	689	289	10.1	139	4,144	120	0.88	37.4	-0.00100		
EPA 07*	10/4/94		5.8	7.16	7,011	559	822	299	10.3	160	4,647	141	2.94	46.2	-0.00100		
EPA 07*	1/11/95	6903.7	5.8	6.45	8,136	540	900	353	9.4	326	4,737	215	1.37	131	0.00104		
EPA 07*	4/11/95	6904.4	5.9	6.35	7,549	510	798	370	7.2	397	4,566	244	1.27	139	0.00108		
EPA 07*	7/11/95	6903.9	6.0	6.96	7,971	475	931	346	6.9	426	4,475	235	1.25	145	-0.00100		
EPA 07*	10/10/95	6904.1	6.0	7.50	7,558	507	916	371	7.7	403	4,368	200	1.12	137	-0.00100		
EPA 07*	1/9/96	6903.9	6.1	7.36	7,349	474	894	352	7.6	438	4,400	200	1.03	141	0.00105		
EPA 07*	4/10/96	6903.8	6.3	7.26	8,204	552	1,040	349	7.4	428	5,070	214	1.07	147	-0.00100		
EPA 07*	7/17/96	6903.6	6.2	6.36	8,403	483	923	344	7.9	392	4,529	222	0.72	156	0.00156		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
NRC Standard		NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
EPA Standard		5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 07*	4/17/89		-0.001	-0.050	-0.01		-0.05	25.00		0.25	-0.001	-0.10	0.0072	9.0	-0.2	-1.0	3.1
EPA 07*	7/26/89	94.00	-0.001	-0.050	-0.01	0.25	-0.05	24.00	-0.10	0.27	-0.001	-0.10	0.0080	6.1	6.0	-1.0	9.0
EPA 07*	10/5/89	99.00	-0.001	-0.050	-0.01	0.26	0.09	25.00	-0.01	0.29	0.002	-0.10	0.0120	5.3	0.8	-1.0	2.5
EPA 07*	1/16/90	96.00	-0.001	-0.050	-0.01	0.34	-0.05	27.00	-0.10	0.35	0.002	-0.10	0.0080	6.9	-0.2	-1.0	1.5
EPA 07*	4/17/90	100.00	-0.001	-0.050	-0.01	0.36	-0.05	42.00	-0.10	0.44	-0.001	-0.10	0.0060	8.5	-0.2	-1.0	2.8
EPA 07*	7/17/90	80.10	-0.001	-0.050	-0.01	0.30	-0.05	42.30	-0.10	0.45	-0.001	-0.10	0.0155	5.8	-0.2	-1.0	-1.0
EPA 07*	10/9/90	39.10	-0.001	-0.050	0.01	0.46	-0.05	26.90	-0.10	0.48	-0.001	-0.10	0.0052	7.3	-0.2	-1.0	4.0
EPA 07*	1/3/91	18.00	-0.001	-0.010	-0.01	0.25	-0.05	17.60	-0.10	0.30	0.001	-0.10	0.0081	16.3	-0.2	-1.0	8.0
EPA 07*	4/17/91	6.15	-0.001	-0.010	-0.01	0.12	-0.05	13.28	-0.10	0.18	-0.001	-0.10	0.0020	13.0	-0.2	1.7	2.0
EPA 07*	7/11/91	0.18	-0.001	-0.010	-0.01	0.12	-0.05	12.51	-0.10	0.16	0.017	-0.10	0.0038	12.1	-0.2	-1.0	3.0
EPA 07*	10/17/91	1.15	0.001	-0.010	-0.01	0.15	-0.05	13.51	-0.10	0.16	0.001	-0.10	0.0009	9.3	-0.2	-1.0	2.0
EPA 07*	1/16/92	1.91	-0.001	-0.010	-0.01	0.13	-0.05	13.60	-0.10	0.19	0.018	-0.10	0.0050	9.2	-0.2	-1.0	3.0
EPA 07*	4/13/92	0.60	-0.001	-0.010	-0.01	0.13	-0.05	13.30	-0.10	0.16	0.014	-0.10	0.0010	9.8	-0.2	-1.0	2.4
EPA 07*	7/15/92	0.72	-0.001	-0.010	-0.01	0.10	-0.05	10.50	-0.10	0.13	-0.001	-0.10	0.0030	14.8	-0.2	-1.0	3.0
EPA 07*	10/7/92	0.80	-0.001	-0.010	-0.01	0.10	-0.05	11.00	-0.10	0.15	-0.001	-0.10	0.0003	10.1	-0.2	-1.0	2.6
EPA 07*	1/7/93	0.60	-0.001	-0.010	-0.01	0.12	-0.05	11.30	-0.10	0.21	-0.010	-0.10	0.0070	9.2	-0.2	-1.0	2.1
EPA 07*	4/7/93	1.40	0.001	-0.010	-0.01	0.17	-0.05	11.60	-0.10	0.17	-0.001	-0.10	-0.0003	10.3	-0.2	1.3	1.5
EPA 07*	7/14/93	0.53	-0.001	-0.010	-0.01	0.13	-0.05	10.20	-0.10	0.19	0.002	-0.10	-0.0003	8.0	-0.2	-1.0	2.8
EPA 07*	10/7/93	0.62	-0.001	-0.010	-0.01	0.12	-0.05	7.99	-0.10	0.21	-0.001	-0.10	-0.0060	9.2	-0.2	1.8	13.0
EPA 07*	1/6/94	0.84	-0.001	-0.010	-0.01	0.13	-0.05	9.79	-0.10	0.22	-0.001	-0.10	-0.0003	-4.1	-0.2	1.7	4.1
EPA 07*	4/12/94	0.63	-0.001	-0.010	-0.01	0.12	-0.05	9.59	-0.10	0.21	-0.001	-0.10	0.0010	6.3	-0.2	-1.0	8.2
EPA 07*	7/26/94	0.59	-0.001	-0.010	-0.01	0.16	-0.05	9.72	-0.10	0.21	0.003	-0.10	0.0020	3.7	-0.2	-1.0	4.6
EPA 07*	10/4/94	0.74	-0.001	-0.010	-0.01	0.10	-0.05	8.52	-0.10	0.15	-0.001	-0.10	0.0030	7.6	-0.2	-1.0	9.8
EPA 07*	1/11/95	0.50	-0.001	-0.010	-0.01	0.06	-0.05	4.44	-0.10	0.10	-0.001	-0.10	0.0010	7.8	-0.2	4.8	11.1
EPA 07*	4/11/95	0.41	-0.001	-0.010	-0.01	-0.01	-0.05	3.81	-0.10	-0.05	-0.001	-0.10	0.0010	6.6	-0.2	-1.0	9.0
EPA 07*	7/11/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	4.02	-0.10	-0.05	-0.001	-0.10	0.0020	-3.0	0.5	14.9	16.3
EPA 07*	10/10/95	0.22	0.002	-0.010	-0.01	0.04	-0.05	4.84	-0.1	-0.05	0.040	-0.10	0.0023	9.0	-0.2	-1.0	5.4
EPA 07*	1/9/96	0.17	0.003	-0.010	-0.01	0.04	-0.05	5.35	-0.1	-0.05	0.067	-0.10	0.0038	4.7	-0.2	-1.0	2.4
EPA 07*	4/10/96	0.22	-0.001	-0.010	-0.01	0.06	-0.05	6.60	-0.1	-0.05	-0.001	-0.10	0.0024	3.3	0.8	-1.0	3.1
EPA 07*	7/17/96	0.25	-0.001	-0.010	-0.01	0.08	-0.05	9.71	-0.1	0.08	-0.001	-0.10	0.0032	-2.2	-0.2	-1.0	4.3

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Water Elevation (ft AMSL)	Field pH (SU)	Lab pH (SU)	Lab TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	HCO_3 (mg/l)	SO_4 (mg/l)	Cl (mg/l)	NH_4 as N (mg/l)	NO_3 as N (mg/l)	Chloro-form (mg/l)	Naphtha-lene (mg/l)	Cyanide (mg/l)
NRC Standard		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.005
EPA Standard		NA	NA	NA	3170	NA	NA	NA	NA	NA	2160	250	NA	30.0	NA	NA	NA
EPA 08	4/17/89	6856.8	7.0														
EPA 08	5/4/89		6.8	6.25	4,442	468	370	210	7.9	118	2,970	33.1	0.76	0.02	-0.00100	-0.001	-0.005
EPA 08	7/26/89	6857.4	6.8	5.89	4,304	521	366	222	8.1	163	3,007	35.9	0.88	0.06	-0.00100	-0.001	-0.005
EFA 08	10/5/89	6858.0	6.5	6.96	4,454	513	379	206	9.9	169	2,863	35.4	0.84	0.09	-0.00100	-0.001	-0.005
EPA 08	1/16/90	6858.5	6.5	6.40	4,478	486	348	209	8.2	165	2,860	33.2	0.91	0.11	-0.00100	-0.001	-0.005
EPA 08	4/17/90	6858.7	6.4	6.61	4,577	496	344	210	7.9	165	2,738	36.3	0.93	0.16	-0.00100	-0.001	-0.005
EPA 08	7/17/90	6858.7	6.5	6.46	4,699	613	431	183	8.5	159	2,893	35.7	0.54	0.06	-0.00100	-0.001	-0.005
EPA 08	10/16/90	6859.2	6.5	6.73	4,681	509	383	189	8.0	148	3,053	43.4	0.71	0.03	-0.00100	-0.001	-0.005
EPA 08	1/8/91	6859.4	6.5	6.50	4,648	530	387	194	19.0	159	2,959	39.4	0.86	0.04	-0.00100	-0.001	-0.005
EPA 08	4/17/91	6860.0	6.4	7.18	4,833	543	379	198	8.1	140	3,164	45.4	0.82	3.30	-0.00100	-0.001	-0.005
EPA 08	7/3/91	6859.9	6.3	6.40	4,711	514	373	161	7.1	141	3,242	22.1	0.86	0.06	-0.00100	-0.001	-0.005
EPA 08	10/22/91	6860.5	6.3	6.29	4,612	497	366	182	7.6	166	2,998	39.6	1.01	0.23	-0.00100	-0.001	-0.005
EPA 08	1/22/92	6860.8	6.4	6.51	4,311	525	376	155	7.3	128	3,014	73.4	0.88	-0.01	-0.00100	-0.001	-0.005
EPA 08	4/2/92	6860.8	6.3	7.65	4,704	559	394	203	8.8	165	3,034	36.4	0.98	-0.01	-0.00100	-0.001	-0.005
EPA 08	7/15/92	6860.1	6.4	6.64	4,809	521	388	176	7.7	126	3,120	39.6	0.58	-0.10	-0.00100	-0 001	-0.005
EPA 08	10/14/92	6860.3	6.6	6.47	4,762	536	384	159	9.4	132	3,158	39.3	0.66	-0.10	-0.00100	-0.001	-0.005
EPA 08	1/13/93	6860.1	6.6	6.63	4,739	528	637	157	7.8	147	3,159	37.7	1.08	-0.10	-0.00100	-0.001	-0.005
EPA 08	4/15/93	6861.0	6.6	6.53	4,910	479	359	183	6.6	125	3,019	40.8	0.80	-0.10	-0.00100	-0.001	-0.005
EPA 08	7/20/93	6862.8	6.6	7.10	4,144	562	352	159	7.9	134	2,956	39.6	0.69	-0.10	-0.00100	-0.001	-0.005
EPA 08	10/12/93	6859.4	6.7	6.19	4,366	561	370	169	7.1	117	3,110	36.9	0.71	-0.10	-0.00100	-0.001	-0.005
EPA 08	1/11/94	6861.3	6.7	6.46	4,765	528	366	177	6.7	111	3,197	39.4	0.74	-0.10	-0.00100		
EPA 08	4/20/94	6861.4	6.5	6.22	4,532	530	368	162	6.4	116	3,154	39.6	1.33	-0.10	-0.00100		
EPA 08	7/26/94	6862.6	6.5	7.13	4,389	592	379	142	7.5	109	3,049	38.7	0.72	-0.10	-0.00100		
EPA 08	10/11/94	6861.5	6.5	6.90	4,809	572	425	157	7.5	119	3,367	41.5	1.08	-0.10	-0.00100		
EPA 08	1/10/95	6861.7	6.4	6.62	4,848	644	388	142	8.5	139	3,277	42.0	1.31	-0.10	-0.00100		
EPA 08	4/6/95	6861.6	6.5	6.48	4,867	651	345	154	7.5	108	3,364	40.2	1.52	-0.10	-0.00100		
EPA 08	7/11/95	6861.8	6.9	7.05	4,212	550	408	144	7.3	127	2,906	42.0	1.29	-0.10	-0.00100		
EPA 08	10/10/95	6861.9	6.6	7.13	4,348	575	411	160	7.3	127	2,965	38.4	0.93	-0.10	-0.00100		
EPA 08	1/9/96	6862.0	6.7	7.29	4,165	545	401	156	7.9	162	2,863	37.6	0.68	-0.10	-0.00100		
EPA 08	4/10/96	6862.2	6.9	7.24	4,857	620	444	148	7.6	149	3,480	41.8	0.75	-0.10	-0.00100		
EPA 08	7/17/96	6862.3	6.8	6.63	4,876	560	395	159	8.0	165	3,085	37.6	0.13	-0.10	-0.00100		

Refer to page 1 for explanatory notes

TABLE D.1

ZONE 1 DATA SUMMARY
1989 - 1996

Well No.	Date	Al (mg/l)	As (mg/l)	Be (mg/l)	Cd (mg/l)	Co (mg/l)	Pb (mg/l)	Mn (mg/l)	Mo (mg/l)	Ni (mg/l)	Se (mg/l)	V (mg/l)	U (mg/l)	Ra-226+ Ra-228 (pCi/l)	Th-230 (pCi/l)	Pb-210 (pCi/l)	Gross Alpha (pCi/l)
	NRC Standard	NA	0.05	0.050	0.01	NA	0.05	NA	NA	0.05	0.01	0.10	0.3	5.0	5.0	1.0	15.0
	EPA Standard	5.0	0.05	0.017	0.01	0.05	0.05	2.60	1.0	0.2	0.01	0.70	5.0	5.0	NA	NA	15.0
EPA 08	4/17/89																
EPA 08	5/4/89		0.001	-0.050	-0.01		-0.05	3.00		-0.05	-0.001	-0.10	-0.2000	3.9	0.3	-1.0	5.9
EPA 08	7/26/89	-0.10	-0.001	-0.050	-0.01	-0.01	-0.05	3.00	-0.10	-0.05	-0.001	-0.10	0.0012	3.1	0.9	1.7	-1.0
EPA 08	10/5/89	0.13	-0.001	-0.050	-0.01	-0.01	-0.05	2.90	-0.01	-0.05	-0.001	-0.10	0.0040	-2.0	-0.2	2.1	1.5
EPA 08	1/16/90	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	3.30	-0.10	-0.05	-0.001	-0.10	0.0030	3.3	-0.2	-1.0	0.9
EPA 08	4/17/90	-0.10	0.001	-0.050	-0.01	-0.01	-0.05	3.00	-0.10	-0.05	-0.001	-0.10	0.0030	2.4	-0.2	1.7	1.9
EPA 08	7/17/90	0.14	0.002	-0.050	-0.01	-0.01	-0.05	3.41	-0.10	-0.05	-0.001	-0.10	0.0019	-1.6	-0.2	-1.0	-1.0
EPA 08	10/16/90	-0.10	0.002	-0.050	-0.01	-0.01	-0.05	3.40	-0.10	-0.05	-0.001	-0.10	0.0007	3.2	-0.2	-1.0	-1.0
EPA 08	1/8/91	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.32	-0.10	-0.05	-0.001	-0.10	0.0027	3.5	-0.2	-1.0	2.0
EPA 08	4/17/91	0.16	-0.001	-0.010	-0.01	-0.01	-0.05	3.82	-0.10	-0.05	-0.001	-0.10	0.0020	6.6	-0.2	-1.0	2.0
EPA 08	7/3/91	0.60	0.002	-0.010	-0.01	-0.01	-0.05	2.93	-0.10	-0.05	-0.001	-0.10	0.0015	2.9	-0.2	-1.0	-1.0
EPA 08	10/22/91	0.24	-0.001	-0.010	-0.01	0.02	-0.05	3.22	-0.10	-0.05	-0.001	-0.10	0.0436	2.8	-0 2	-1.0	-1.0
EPA 08	1/22/92	-0.10	-0.001	-0.010	-0.01	-0.01	0.05	2.88	-0.10	-0.05	-0.001	-0.10	0.0010	6.4	-0.2	1.3	5.0
EPA 08	4/2/92	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	3.43	-0.10	-0.05	-0.001	-0.10	0.0010	4.3	-0.2	-1.0	-1.0
EPA 08	7/15/92	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	3.17	-0.10	-0.05	-0.001	-0.10	0.0030	6.8	-0.2	-1.0	1.5
EPA 08	10/14/92	0.21	0.001	-0.010	-0.01	-0.01	-0.05	3.09	-0.10	-0.05	-0.001	-0.10	0.0003	3.4	-0.2	-1.0	1.9
EPA 08	1/13/93	0.20	-0.001	-0.010	-0.01	-0.01	-0.05	3.46	-0.10	-0.05	-0.001	-0.10	-0.0003	11.1	-0.2	-1.0	-1.0
EPA 08	4/15/93	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	3.05	-0.10	-0.05	-0.001	-0.10	0.0060	4.3	-0.2	-1.0	-1.0
EPA 08	7/20/93	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	2.78	-0.10	-0.05	-0.001	-0.10	-0.0003	4.4	-0.2	-1.0	1.4
EPA 08	10/12/93	0.16	-0.001	-0.010	-0.01	0.02	-0.05	2.80	-0.10	-0.05	-0.001	-0.10	0.0020	7.0	-0.2	-1.0	2.0
EPA 08	1/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.07	-0.10	-0.05	-0.001	-0.10	0.0060	6.1	-0.2	-1.0	9.6
EPA 08	4/20/94	0.10	0.001	-0.010	-0.01	-0.01	-0.05	2.49	-0.10	-0.05	-0.001	-0.10	0.0010	4.8	-0.2	1.3	6.7
EPA 08	7/26/94	0.12	-0.001	-0.010	-0.01	-0.01	-0.05	3.12	-0.10	-0.05	-0.001	-0.10	-0.0003	5.3	-0.2	-1.0	7.2
EPA 08	10/11/94	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.46	-0.10	-0.05	-0.001	-0.10	0.0010	3.0	-0.2	-1.0	4.1
EPA 08	1/10/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.95	-0.10	-0.05	-0.001	-0.10	0.0010	4.9	-0.2	-1.0	6.4
EPA 08	4/6/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.15	-0.10	-0.05	-0.001	-0.10	0.0020	3.8	-0.2	-1.0	5.3
EPA 08	7/11/95	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.92	0.27	-0.05	-0.001	-0.10	0.0016	2.9	0.5	4.9	6.6
EPA 08	10/10/95	-0.10	0.002	-0.010	-0.01	-0.01	-0.05	2.99	-0.10	-0.05	-0.001	-0.10	0.0017	3.9	-0.2	-1.0	1.8
EPA 08	1/9/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	2.60	0.13	-0.05	-0.001	-0.10	0.0010	2.5	-0.2	3.8	-1.0
EPA 08	4/10/96	-0.10	0.001	-0.010	-0.01	-0.01	-0.05	2.96	0.14	-0.05	-0.001	-0.10	0.0006	2.5	0.7	-1.0	1.2
EPA 08	7/17/96	-0.10	-0.001	-0.010	-0.01	-0.01	-0.05	3.21	-0.10	-0.05	0.002	-0.10	0.0016	-1.7	0.8	-1.0	-1.0

Refer to page 1 for explanatory notes