CRYSTAL RIVER UNIT 3

ANNUAL ENVIRONMENTAL
OPERATING REPORT

RADIOLOGICAL
1-1-82 12-31-82

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I. INTRODUCTION

The Radiological Environmental Monitoring Program provides information which can be used to assist in assessing the type and quantity of radiation exposure in unrestricted areas resulting from plant operation. The Program is conducted via a contract with the University of Florida, Department of Environmental Engineering Sciences, Gainesville, Florida and a grant to the State of Florida, Department of Health and Rehabilitative Services, Orlando, Florida. The parts of the Program for which each are responsible are listed in Table I-1. In essence, the Program provides a continuation of the preoperation program so that any increases of radioactivity in the environment can be detected. No pathway has shown any confirmed increases of radioactivity in the environment due to plant operation during this report period.

Due to delays in changes to the computer code used to produce the summary analysis tables, only the raw data are available to be presented in this report. A supplement to this report will be submitted containing the summary tables and statistical analysis of the data presented herein.

The University of Florida's data base management program utilizes the following codes to store information:

-0.1000E+1 = NC/M = Not Collected or Missed

-0.2000E+1 = < LLD

-0.3000E+1 = ND = Non-Detectable

If one of these codes is entered in place of real data, the respective meaning should be applied.

Table I-1

Radiological Environmental Monitoring Program

RESPONSIBILITY	PATHWAY	SAMPLE STATIONS[A]
University	Air Submersion	C04, C14H*, C14M*, C14G*, C40, C41, C43, C46
State	Air Submersion	C07, C09, C18, C26
University	Air Innalation	C41*
State	Air Innalation	C04, C07, C18, C26, C40, C46
State	Precipitation	C04, C26, C40
University	Sea Water	C01, C09, C13, C14H, C14M, C14G*
State	River Water	C15
State	Ground Water	C40
University	Potable Water	C07, C10, C18
University	Shoreline External Sediment	C01, C09, C14H*, C14M*, C14G*
University	Seafood Chain	C29, C30
University	Ingestion Crab	C29*, C30
University	Ingestion Fish (Carnivorous)	C29*, C30
University	Ingestion Fish (Herbivorous)	C29*, C30
University	Ingestion Oysters	C29, C30
University	Ingestion Shrimp	C27
University	Ingestion Milk	C47, C49*
University	Ingestion Animals	C45
University	Food Chain (Grasses)	C05, C40, C41

Table I-1 (Continued)

Radiological Environmental Monitoring Program

RESPONSIBILITY	PATHWAY	SAMPLE STATIONS(1)
State	Ingestion Food Crops (Citrus)	C19
State	Ingestion Food Crops (Watermelon)	C04
University	Food Chain (Soil)	C04, C07, C18, C26, C40, C41, C46
State	Meat	C50
State	Poultry	C51
State	Eggs	C51
University	Food Chain (Vegetables)	C47, C48*

*Critical Pathway Sample Stations

(1) See ETS Table 3.2-4 and Figures 3.2-2 and 3.2-3 for the description and location of all Sample stations.

II. MILK AND GREEN LEAFY VEGETABLES CENSUS

Environmental Technical Specification 3.2.1 requires a census of animals producing milk for human consumption to be conducted semiannually. If this census fails to locate any such animals, a census of gardens producing fresh leafy vegetables for human consumption is required annually.

The garden census, required as a result of a lack of findings on the milk animal census, was completed on June 16, 21, and 28, 1982. Eight (8) garden sites within 5 miles of the plant were located and an evaluation as to the critical station is being conducted.

A semiannual milk cow survey was completed on June 16, 21, and 28, 1982 with no milk animals found within 5 miles of the site.

A semiannual milk cow census was completed on December 30, 1982. Milk animals were located within 5 miles of the plant site in this census, but no milk was immediately available from the animals. One (1) cow was identified east-northeast of the plant at approximately 4.5 miles and another cow in the same direction at approximately 5 miles. Both animals were dry at the time of the census, but should be able to provide milk the second quarter of 1983.

III. MEDIA OTHER THAN EXTERNAL RADIATION

AIR INHALATION PATHWAY

The Air Inhalation Pathway is one of two pathways split between the University and the State. In addition to the assigned stations, the University operates a station at C47.

Weekly I-Gross Beta Analysis

One (1) weekly gross beta sample was not collected and analyzed:

- C47 for the week of January 29, 1982 - filter lost on changing

There are no critical stations for this type of analysis.

The operational concentrations are similar to the preoperational concentrations and consistent with previous operational years' concentrations.

Weekly I-131 Analysis

All samples were collected and analyzed. Station C41 is the critical station for this type of analysis and no samples had activity greater than 10 times the control station's 95 percentile values. There is no pre-operational data.

Quarterly Gamma Analysis

All samples were collected and analyzed. There are no critical stations for this type of analysis.

The concentrations of nuclides by gamma analysis during 1982 were generally less than the preoperational concentrations and consistent with all previous operational years' concentrations.

Quarterly Sr-89 and 90 Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

There are no preoperational data and all operational concentrations are consistent.

F 'DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C04 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0170
2	1/11/82	0.0100	0.0330
3	1/18/82	0.0100	0.0320
4	1/25/82	0.0100	0.0280
5	1/31/82	0.0100	0.0340
6	2/ 8/82	0.0100	0.0220
7	2/15/82	0.0100	0.0250
8	2/22/82	0.0100	0.0220
9	3/ 1/82	0.0100	0.0200
10	3/ 8/82	0.0100	0.0150
11	3/14/82	0.0100	0.0220
12	3/22/82	0.0100	0.0150
13	3/29/82	0.0100	0.0140

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C04 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0140
2	4/12/82	0.0100	0.0200
3	4/18/82	0.0100	0.0250
4	4/26/82	0.0100	0.0160
5	5/ 4/82	0.0100	0.0170
6	5/11/82	0.0100	0.0280
7	5/18/82	0.0100	0.0280
8	5/25/82	0.0100	0.0200
9	6/ 1/82	0.0100	<LLD
10	6/ 8/82	0.0100	0.0180
11	6/15/82	0.0100	0.0300
12	6/22/82	0.0100	0.0140
13	6/29/82	0.0100	0.0160

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C04 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0270
2	7/13/82	0.0100	0.0150
3	7/20/82	0.0100	0.0100
4	7/28/82	0.0100	0.0110
5	8/ 3/82	0.0100	0.0160
6	8/11/82	0.0100	0.0270
7	8/18/82	0.0100	0.0170
8	8/24/82	0.0100	0.0150
9	8/31/82	0.0100	0.0220
10	9/ 7/82	0.0100	0.0220
11	9/14/82	0.0100	0.0110
12	9/20/82	0.0100	0.0250
13	9/28/82	0.0100	0.0220

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C04 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0200
2	10/12/82	0.0100	0.0170
3	10/19/82	0.0100	0.0220
4	10/27/82	0.0100	0.0210
5	11/ 2/82	0.0100	0.0180
6	11/10/82	0.0100	0.0190
7	11/16/82	0.0100	0.0280
8	11/22/82	0.0100	0.0130
9	11/29/82	0.0100	0.0140
10	12/ 6/82	0.0100	0.0130
11	12/13/82	0.0100	0.0160
12	12/20/82	0.0100	0.0240
13	12/27/82	0.0100	0.0160

FF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C07 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCi/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0120
2	1/11/82	0.0100	0.0370
3	1/18/82	0.0100	0.0340
4	1/25/82	0.0100	0.0380
5	1/31/82	0.0100	0.0340
6	2/ 8/82	0.0100	0.0150
7	2/15/82	0.0100	0.0340
8	2/22/82	0.0100	0.0290
9	3/ 1/82	0.0100	0.0260
10	3/ 8/82	0.0100	0.0280
11	3/14/82	0.0100	0.0210
12	3/22/82	0.0100	0.0210
13	3/29/82	0.0100	0.0170

FF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C07 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0180
2	4/12/82	0.0100	0.0230
3	4/18/82	0.0100	0.0270
4	4/26/82	0.0100	0.0230
5	5/ 4/82	0.0100	0.0120
6	5/11/82	0.0100	0.0360
7	5/18/82	0.0100	0.0390
8	5/25/82	0.0100	0.0170
9	6/ 1/82	0.0100	0.0110
10	6/ 8/82	0.0100	0.0210
11	6/15/82	0.0100	0.0330
12	6/22/82	0.0100	0.0140
13	6/29/82	0.0100	0.0190

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C07 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0280
2	7/13/82	0.0100	0.0150
3	7/20/82	0.0100	0.0130
4	7/28/82	0.0100	0.0130
5	8/ 3/82	0.0100	0.0160
6	8/11/82	0.0100	0.0290
7	8/18/82	0.0100	0.0180
8	8/24/82	0.0100	0.0200
9	8/31/82	0.0100	0.0290
10	9/ 7/82	0.0100	0.0220
11	9/14/82	0.0100	0.0130
12	9/20/82	0.0100	0.0370
13	9/28/82	0.0100	0.0250

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C07 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0240
2	10/12/82	0.0100	0.0230
3	10/19/82	0.0100	0.0310
4	10/27/82	0.0100	0.0160
5	11/ 2/82	0.0100	0.0190
6	11/10/82	0.0100	0.0240
7	11/16/82	0.0100	0.0280
8	11/22/82	0.0100	0.0140
9	11/29/82	0.0100	0.0110
10	12/ 6/82	0.0100	0.0120
11	12/13/82	0.0100	0.0140
12	12/20/82	0.0100	0.0250
13	12/27/82	0.0100	0.0130

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C18 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0260
2	1/11/82	0.0100	0.0460
3	1/18/82	0.0100	0.0250
4	1/25/82	0.0100	0.0500
5	1/31/82	0.0100	0.0210
6	2/ 8/82	0.0100	0.0210
7	2/15/82	0.0100	0.0240
8	2/22/82	0.0100	0.0180
9	3/ 1/82	0.0100	0.0180
10	3/ 8/82	0.0100	0.0120
11	3/14/82	0.0100	0.0210
12	3/22/82	0.0100	0.0150
13	3/29/82	0.0100	0.0140

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C18 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0140
2	4/12/82	0.0100	0.0170
3	4/18/82	0.0100	0.0370
4	4/26/82	0.0100	0.0170
5	5/ 4/82	0.0100	0.0200
6	5/11/82	0.0100	0.0340
7	5/18/82	0.0100	0.0330
8	5/25/82	0.0100	0.0150
9	6/ 1/82	0.0100	<LLD
10	6/ 8/82	0.0100	0.0180
11	6/15/82	0.0100	0.0320
12	6/22/82	0.0100	0.0120
13	6/29/82	0.0100	0.0120

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSRT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C18 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0230
2	7/13/82	0.0100	0.0100
3	7/20/82	0.0100	<LLD
4	7/28/82	0.0100	<LLD
5	8/ 3/82	0.0100	0.0160
6	8/11/82	0.0100	0.0250
7	8/18/82	0.0100	0.0140
8	8/24/82	0.0100	0.0160
9	8/31/82	0.0100	0.0270
10	9/ 7/82	0.0100	0.0200
11	9/14/82	0.0100	0.0110
12	9/20/82	0.0100	0.0300
13	9/28/82	0.0100	0.0260

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C18 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0220
2	10/12/82	0.0100	0.0160
3	10/19/82	0.0100	0.0280
4	10/27/82	0.0100	0.0150
5	11/ 2/82	0.0100	0.0150
6	11/10/82	0.0100	0.0150
7	11/16/82	0.0100	0.0250
8	11/22/82	0.0100	0.0150
9	11/29/82	0.0100	0.0150
10	12/ 6/82	0.0100	0.0120
11	12/13/82	0.0100	0.0140
12	12/20/82	0.0100	0.0250
13	12/27/82	0.0100	0.0170

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSRT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C26 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0200
2	1/11/82	0.0100	0.0370
3	1/18/82	0.0100	0.0370
4	1/25/82	0.0100	0.0540
5	1/31/82	0.0100	0.0450
6	2/ 8/82	0.0100	0.0220
7	2/15/82	0.0100	0.0260
8	2/22/82	0.0100	0.0120
9	3/ 1/82	0.0100	0.0140
10	3/ 8/82	0.0100	0.0140
11	3/14/82	0.0100	0.0270
12	3/22/82	0.0100	0.0220
13	3/29/82	0.0100	0.0190

F DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

, QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C26 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0130
2	4/12/82	0.0100	0.0410
3	4/18/82	0.0100	0.0280
4	4/26/82	0.0100	0.0140
5	5/ 4/82	0.0100	0.0170
6	5/11/82	0.0100	0.0220
7	5/18/82	0.0100	0.0260
8	5/25/82	0.0100	0.0110
9	6/ 1/82	0.0100	0.0110
10	6/ 8/82	0.0100	0.0200
11	6/15/82	0.0100	0.0270
12	6/22/82	0.0100	0.0110
13	6/29/82	0.0100	0.0130

E : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

JARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C26 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0200
2	7/13/82	0.0100	0.0120
3	7/20/82	0.0100	0.0110
4	7/28/82	0.0100	<LLD
5	8/ 3/82	0.0100	0.0180
6	8/11/82	0.0100	0.0270
7	8/18/82	0.0100	0.0140
8	8/24/82	0.0100	0.0170
9	8/31/82	0.0100	0.0220
10	9/ 7/82	0.0100	0.0250
11	9/14/82	0.0100	0.0150
12	9/20/82	0.0100	0.0350
13	9/28/82	0.0100	0.0210

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C26 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0250
2	10/12/82	0.0100	0.0160
3	10/19/82	0.0100	0.0250
4	10/27/82	0.0100	0.0160
5	11/ 2/82	0.0100	0.0190
6	11/10/82	0.0100	0.0180
7	11/16/82	0.0100	0.0280
8	11/22/82	0.0100	0.0140
9	11/29/82	0.0100	0.0120
10	12/ 6/82	0.0100	0.0110
11	12/13/82	0.0100	0.0160
12	12/20/82	0.0100	0.0280
13	12/27/82	0.0100	0.0150

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C40 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0180
2	1/11/82	0.0100	0.0380
3	1/18/82	0.0100	0.0430
4	1/25/82	0.0100	0.0470
5	1/31/82	0.0100	0.0320
6	2/ 8/82	0.0100	0.0160
7	2/15/82	0.0100	0.0250
8	2/22/82	0.0100	0.0300
9	3/ 1/82	0.0100	0.0160
10	3/ 8/82	0.0100	0.0140
11	3/14/82	0.0100	0.0200
12	3/22/82	0.0100	0.0130
13	3/29/82	0.0100	0.0180

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C40 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0260
2	4/12/82	0.0100	0.0180
3	4/18/82	0.0100	0.0590
4	4/26/82	0.0100	0.0120
5	5/ 4/82	0.0100	0.0230
6	5/11/82	0.0100	0.0220
7	5/18/82	0.0100	0.0300
8	5/25/82	0.0100	0.0140
9	6/ 1/82	0.0100	<LLD
10	6/ 8/82	0.0100	0.0180
11	6/15/82	0.0100	0.0290
12	6/22/82	0.0100	0.0150
13	6/29/82	0.0100	0.0140

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C40 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0220
2	7/13/82	0.0100	0.0100
3	7/20/82	0.0100	<LLD
4	7/28/82	0.0100	<LLD
5	8/ 3/82	0.0100	0.0170
6	8/11/82	0.0100	0.0210
7	8/18/82	0.0100	0.0120
8	8/24/82	0.0100	0.0150
9	8/31/82	0.0100	0.0210
10	9/ 7/82	0.0100	0.0180
11	9/14/82	0.0100	0.0110
12	9/20/82	0.0100	0.0270
13	9/28/82	0.0100	0.0240

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C40 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0160
2	10/12/82	0.0100	0.0170
3	10/19/82	0.0100	0.0280
4	10/27/82	0.0100	0.0130
5	11/ 2/82	0.0100	0.0200
6	11/10/82	0.0100	0.0180
7	11/16/82	0.0100	0.0250
8	11/22/82	0.0100	0.0140
9	11/29/82	0.0100	0.0130
10	12/ 6/82	0.0100	<LLD
11	12/13/82	0.0100	0.0160
12	12/20/82	0.0100	0.0210
13	12/27/82	0.0100	0.0180

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C41 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 7/82	0.0020	0.0140
2	1/14/82	0.0020	0.0130
3	1/21/82	0.0020	0.0110
4	1/28/82	0.0012	0.0190
5	2/ 4/82	0.0020	0.0190
6	2/11/82	0.0020	0.0130
7	2/18/82	0.0020	0.0130
8	2/25/82	0.0020	0.0210
9	3/ 4/82	0.0020	0.0160
10	3/11/82	0.0020	0.0170
11	3/18/82	0.0020	0.0140
12	3/25/82	0.0040	0.0110
13	4/ 1/82	0.0020	0.0140

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C41 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 8/82	0.0030	0.0110
2	4/15/82	0.0020	0.0110
3	4/22/82	0.0020	0.0150
4	4/29/82	0.0030	0.0170
5	5/ 6/82	0.0040	0.0200
6	5/14/82	0.0020	0.0240
7	5/20/82	0.0030	0.0200
8	5/27/82	0.0030	0.0100
9	6/ 3/82	0.0030	0.0050
10	6/10/82	0.0052	0.0180
11	6/17/82	0.0020	0.0110
12	6/24/82	0.0030	<LLD
13	7/ 2/82	0.0029	0.0090

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOS ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C41 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 9/82	0.0030	0.0100
2	7/16/82	0.0040	0.0090
3	7/23/82	0.0030	0.0040
4	7/30/82	0.0020	0.0080
5	8/ 6/82	0.0020	0.0180
6	8/13/82	0.0030	0.0070
7	8/20/82	0.0040	0.0110
8	8/27/82	0.0028	0.0060
9	9/ 3/82	0.0040	0.0140
10	9/ 9/82	0.0040	0.0040
11	9/17/82	0.0020	0.0120
12	9/23/82	0.0020	0.0080
13	9/30/82	0.0020	0.0090

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C41 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 8/82	0.0020	0.0100
2	10/14/82	0.0020	0.0070
3	10/21/82	0.0027	0.0180
4	10/28/82	0.0020	0.0120
5	11/ 5/82	0.0020	0.0050
6	11/11/82	0.0030	0.0130
7	11/16/82	0.0020	0.0180
8	11/26/82	0.0020	0.0100
9	12/ 3/82	0.0015	<LLD
10	12/10/82	0.0020	0.0100
11	12/17/82	0.0020	0.0140
12	12/24/82	0.0020	0.0280
13	12/30/82	0.0020	0.0090

F DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C46 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0100	0.0250
2	1/11/82	0.0100	0.0340
3	1/18/82	0.0100	0.0180
4	1/25/82	0.0100	0.0290
5	1/31/82	0.0080	0.0270
6	2/ 8/82	0.0100	<LLD
7	2/15/82	0.0100	0.0120
8	2/22/82	0.0100	0.0270
9	3/ 1/82	0.0100	0.0140
10	3/ 8/82	0.0100	0.0150
11	3/14/82	0.0100	0.0110
12	3/22/82	0.0100	<LLD
13	3/29/82	0.0100	0.0100

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C46 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0100	0.0170
2	4/12/82	0.0100	0.0240
3	4/18/82	0.0100	0.0210
4	4/26/82	0.0100	0.0160
5	5/ 4/82	0.0100	0.0210
6	5/11/82	0.0100	0.0270
7	5/18/82	0.0100	0.0320
8	5/25/82	0.0100	0.0180
9	6/ 1/82	0.0100	0.0140
10	6/ 8/82	0.0100	0.0210
11	6/15/82	0.0100	0.0280
12	6/22/82	0.0100	0.0130
13	6/29/82	0.0100	0.0170

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C46 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0100	0.0400
2	7/13/82	0.0100	0.0130
3	7/20/82	0.0100	0.0100
4	7/28/82	0.0100	<LLD
5	8/ 3/82	0.0100	0.0130
6	8/11/82	0.0100	0.0270
7	8/18/82	0.0100	0.0150
8	8/24/82	0.0100	0.0160
9	8/31/82	0.0100	0.0310
10	9/ 7/82	0.0100	0.0200
11	9/14/82	0.0100	0.0130
12	9/20/82	0.0100	0.0210
13	9/28/82	0.0100	0.0260

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C46 :CONTROL(ST)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0100	0.0190
2	10/12/82	0.0100	0.0160
3	10/19/82	0.0100	0.0210
4	10/27/82	0.0100	0.0160
5	11/ 2/82	0.0100	0.0150
6	11/10/82	0.0100	0.0150
7	11/16/82	0.0100	0.0250
8	11/22/82	0.0100	0.0140
9	11/29/82	0.0100	0.0120
10	12/ 6/82	0.0100	<LLD
11	12/13/82	0.0100	0.0170
12	12/20/82	0.0100	0.0270
13	12/27/82	0.0100	0.0130

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C47 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 5/82	0.0020	0.0020
2	1/ 8/82	2.1400	<LLD
3	1/15/82	0.0020	0.0170
4	1/21/82	0.0020	0.0200
5	1/29/82	-1.0000	NC/M
6	2/ 5/82	0.0040	0.0060
7	2/12/82	0.0040	0.0040
8	2/19/82	0.0020	0.0040
9	2/26/82	0.0020	0.0170
10	3/ 5/82	0.0020	0.0100
11	3/12/82	0.0020	0.0170
12	3/19/82	0.0020	0.0080
13	3/26/82	0.0030	0.0130

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C47 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 2/82	0.0030	0.0160
2	4/ 9/82	0.0030	0.0050
3	4/16/82	0.0020	0.0160
4	4/23/82	0.0020	0.0120
5	4/30/82	0.0030	0.0050
6	5/13/82	0.0012	0.0160
7	5/14/82	0.0120	0.0270
8	5/21/82	0.0020	0.0160
9	5/28/82	0.0020	0.0070
10	6/ 4/82	0.0020	0.0050
11	6/11/82	0.0034	<LLD
12	6/18/82	0.0020	0.0180
13	6/25/82	0.0020	0.0080

FF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C47 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 2/82	0.0002	0.0120
2	7/ 9/82	0.0040	0.0090
3	7/16/82	0.0030	0.0070
4	7/23/82	0.0020	0.0090
5	7/30/82	0.0019	0.0050
6	8/ 6/82	0.0020	0.0200
7	8/13/82	0.0020	0.0120
8	8/20/82	0.0020	<LLD
9	8/27/82	0.0020	0.0080
10	9/ 3/82	0.0040	0.0140
11	9/ 9/82	0.0040	0.0040
12	9/17/82	0.0020	0.0110
13	9/24/82	0.0020	0.0100

EFF DATE : 12/30/82

AIR PARTICULATE FILTER - GOSBT IDN ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.12 PCI/M3 STATION #: C47 :CONTROL(UF)

TECH. SPEC. LLD = 0.03 PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 1/82	0.0002	0.0200
2	10/ 8/82	0.0020	0.0100
3	10/15/82	0.0020	0.0070
4	10/22/82	0.0020	0.0130
5	10/29/82	0.0020	0.0100
6	11/ 5/82	0.0020	0.0040
7	11/12/82	0.0020	0.0130
8	11/19/82	0.0020	0.0110
9	11/26/82	0.0020	0.0130
10	12/ 3/82	0.0033	<LLD
11	12/10/82	0.0020	0.0080
12	12/17/82	0.0020	0.0100
13	12/24/82	0.0020	0.0130

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY

CRYSTAL RIVER UNIT 3 DOCKET NO.50-302

CITRUS COUNTY, FLORIDA REPORTING PERIOD 01/01/82-12/31/82

PATHWAY	TYPE	NO.	LLD	ALL LOCATIONS	HIGHEST MEAN LOCATION	CONTROL LOCATION	NRR
AIR INHALATION	GROSS B	416	0.141	0.233(32/ 416) (0.002-0.059)	C07 0.293(4/ 52) (0.011-0.039)	0.243(28/ 363) (0.002-0.059)	0

FF DATE : 12/27/82

AIR PARTICULATE FILTER - GS EA DIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C04 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C04 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C04 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C04 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

FF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C07 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C07 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C07 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C07 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C18 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C13 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

EF DATE : 12/2/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C18 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA GIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C18 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA 01E ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C26 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C26 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

F DATE : 12/2/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C26 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C26 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA GIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C40 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

FF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA GIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C40 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - PS EA OIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C40 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA 01E ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C40 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C41 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD		CONC.
1	1/ 7/82	0.0214		ND
2	1/14/82	0.1140	*	ND
3	1/21/82	0.0670		ND
4	1/28/82	0.0470		ND
5	2/ 4/82	0.0452		ND
6	2/11/82	0.0289		ND
7	2/18/82	0.0255		ND
8	2/25/82	0.0421		ND
9	3/ 4/82	0.0091		ND
10	3/11/82	0.0308		ND
11	3/18/82	0.0237		ND
12	3/25/82	0.0419		ND
13	4/ 1/82	0.0254		ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C41 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 9/82	0.0032	ND
2	4/15/82	0.0061	ND
3	4/22/82	0.0061	ND
4	4/29/82	0.0062	ND
5	5/ 6/82	0.0065	ND
6	5/14/82	0.0088	ND
7	5/20/82	0.0000	ND
8	5/27/82	0.0000	ND
9	6/ 3/82	0.0111	ND
10	6/10/82	0.0116	ND
11	6/17/82	0.0050	ND
12	6/24/82	0.0114	ND
13	7/ 2/82	0.0095	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C41 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 9/82	0.0121	ND
2	7/16/82	0.0072	ND
3	7/23/82	0.0103	ND
4	7/30/82	0.0118	ND
5	8/ 6/82	0.0123	0.0196
6	8/13/82	0.0122	ND
7	8/20/82	0.0076	ND
8	8/27/82	0.0065	ND
9	9/ 3/82	0.0163	ND
10	9/ 9/82	0.0130	ND
11	9/17/82	0.0093	ND
12	9/23/82	0.0101	ND
13	9/30/82	0.0082	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C41 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SMLD	CONC.
1	10/ 8/82	0.0070	ND
2	10/14/82	0.0310	ND
3	10/21/82	0.0390	ND
4	10/28/82	0.0110	ND
5	11/ 5/82	0.0080	ND
6	11/11/82	0.0120	ND
7	11/16/82	0.0230	ND
8	11/26/82	0.0300	ND
9	12/ 3/82	0.0140	ND
10	12/10/82	0.0240	ND
11	12/17/82	0.0190	ND
12	12/24/82	0.0130	ND
13	12/30/82	0.0090	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C46 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	1/ 4/82	0.0400	ND
2	1/11/82	0.0400	ND
3	1/18/82	0.0400	ND
4	1/25/82	0.0400	ND
5	1/31/82	0.0400	ND
6	2/ 8/82	0.0400	ND
7	2/15/82	0.0400	ND
8	2/22/82	0.0400	ND
9	3/ 1/82	0.0400	ND
10	3/ 8/82	0.0400	ND
11	3/14/82	0.0400	ND
12	3/22/82	0.0400	ND
13	3/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C46 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 5/82	0.0400	ND
2	4/12/82	0.0400	ND
3	4/18/82	0.0400	ND
4	4/26/82	0.0400	ND
5	5/ 4/82	0.0400	ND
6	5/11/82	0.0400	ND
7	5/18/82	0.0400	ND
8	5/25/82	0.0400	ND
9	6/ 1/82	0.0400	ND
10	6/ 8/82	0.0400	ND
11	6/15/82	0.0400	ND
12	6/22/82	0.0400	ND
13	6/29/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OTE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C46 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 6/82	0.0400	ND
2	7/13/82	0.0400	ND
3	7/20/82	0.0400	ND
4	7/28/82	0.0400	ND
5	8/ 3/82	0.0400	ND
6	8/11/82	0.0400	ND
7	8/18/82	0.0400	ND
8	8/24/82	0.0400	ND
9	8/31/82	0.0400	ND
10	9/ 7/82	0.0400	ND
11	9/14/82	0.0400	ND
12	9/20/82	0.0400	ND
13	9/28/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C46 :CONTROL(ST)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 5/82	0.0400	ND
2	10/12/82	0.0400	ND
3	10/19/82	0.0400	ND
4	10/27/82	0.0400	ND
5	11/ 2/82	0.0400	ND
6	11/10/82	0.0400	ND
7	11/16/82	0.0400	ND
8	11/22/82	0.0400	ND
9	11/29/82	0.0400	ND
10	12/ 6/82	0.0400	ND
11	12/13/82	0.0400	ND
12	12/20/82	0.0400	ND
13	12/27/82	0.0400	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 1 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C47 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD		CONC.
1	1/ 5/82	0.0160		ND
2	1/ 8/82	0.2000	*	ND
3	1/15/82	0.0200		ND
4	1/21/82	0.0500		ND
5	1/29/82	0.0500		ND
6	2/ 5/82	0.0600		ND
7	2/12/82	0.0600		ND
8	2/19/82	0.0100		ND
9	2/26/82	0.0100		ND
10	3/ 5/82	0.0357		ND
11	3/12/82	0.0200		ND
12	3/19/82	0.0200		ND
13	3/26/82	0.0200		ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA DIE ANALYSIS (PCI/M3)

QUARTER 2 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C47 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC. LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	4/ 2/82	0.0026	ND
2	4/ 9/82	0.0046	ND
3	4/16/82	0.0045	ND
4	4/23/82	0.0054	ND
5	4/30/82	0.0046	ND
6	5/13/82	0.0045	ND
7	5/14/82	0.0276	ND
8	5/21/82	0.0081	ND
9	5/28/82	0.0077	ND
10	6/ 4/82	0.0080	ND
11	6/11/82	0.0045	ND
12	6/18/82	0.0087	ND
13	6/25/82	0.0004	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 3 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C47 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	7/ 2/82	0.0085	ND
2	7/ 9/82	0.0207	ND
3	7/16/82	0.0048	ND
4	7/23/82	0.0075	<LLD
5	7/30/82	0.0079	ND
6	8/ 6/82	0.0101	ND
7	8/13/82	0.0048	ND
8	8/20/82	0.0050	ND
9	8/27/82	0.0090	ND
10	9/ 3/82	0.0136	ND
11	9/ 9/82	0.0094	ND
12	9/17/82	0.0080	ND
13	9/24/82	0.0097	ND

EFF DATE : 12/27/82

AIR PARTICULATE FILTER - RS EA OIE ANALYSIS (PCI/M3)

QUARTER 4 PRE-OP CONC. = 0.50 PCI/M3 STATION #: C47 :CONTROL(UF)

(ST) TECH. SPEC. LLD = 0.04PCI/M3

(UF) TECH. SPEC, LLD = 0.10PCI/M3

WEEK #	DATE	SLLD	CONC.
1	10/ 1/82	0.0095	ND
2	10/ 8/82	0.0550	ND
3	10/15/82	0.0271	ND
4	10/22/82	0.0159	ND
5	10/29/82	0.0379	0.0433
6	11/ 5/82	0.0081	ND
7	11/12/82	0.0098	ND
8	11/19/82	0.0261	ND
9	11/26/82	0.0077	ND
10	12/ 3/82	0.0107	ND
11	12/10/82	0.0223	ND
12	12/17/82	0.0147	ND
13	12/24/82	0.0218	ND

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY

CRYSTAL RIVER UNIT 3 DOCKET NO.50-302

CITRUS COUNTY, FLORIDA REPORTING PERIOD 01/01/82-12/31/82

PATHWAY	TYPE & NO.	LLD	ALL LOCATIONS	HIGHEST MEAN LOCATION	CONTROL LOCATION	NRR
AIR INHALATION	IODINE					
	416	0.454	0.002 (32/ 416) (0.020-0.043)	C47 0.011 (4/ 52) (0.043-0.043)	0.002 (28/ 364) (0.043-0.043)	0

1st Quarter

A.P. QUARTERLY COMPOSITE

STATION C04 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE

STATION C04 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C04 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C04 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1st Quarter

A.P. QUARTERLY COMPOSITE
STATION C07 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE
STATION C07 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C07 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C07 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1st Quarter

A.P. QUARTERLY COMPOSITE
STATION C18 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE
STATION C18 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C18 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C18 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1st Quarter

A.P. QUARTERLY COMPOSITE
STATION C26 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	PA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE
STATION C26 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	PA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C26 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	PA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C26 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	PA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.01
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1st Quarter

A.P. QUARTERLY COMPOSITE
STATION C40 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE
STATION C40 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C40 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C40 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1ST QUARTER

A.P. QUARTERLY COMPOSITE
STATION C41 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.03
2	BA-140	ND	0.01
3	FE-59	ND	0.01
4	TH-232	0.00	0.00
5	I-131	ND	0.00
6	RA-226	0.01	0.00
7	CR-51	ND	0.01
8	RU-103	ND	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.01
11	CS-137	0.00	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	0.01	0.01

2nd QUARTER

A.P. QUARTERLY COMPOSITE
STATION C41 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.01
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	0.00	0.00
5	I-131	ND	0.00
6	RA-226	0.00	0.00
7	CR-51	ND	0.00
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	0.00	0.00

3rd QUARTER

A.P. QUARTERLY COMPOSITE
STATION C41 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.03	0.02
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	0.00	0.00
5	I-131	ND	0.00
6	RA-226	0.00	0.00
7	CR-51	ND	0.00
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	0.01	0.00

4th QUARTER

A.P. QUARTERLY COMPOSITE
STATION C41 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.02
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	0.00	0.00
5	I-131	0.16	0.01
6	RA-226	0.00	0.00
7	CR-51	ND	0.01
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	0.01	0.00

1st Quarter

A.P. QUARTERLY COMPOSITE
STATION C46 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

2nd Quarter

A.P. QUARTERLY COMPOSITE
STATION C46 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

3rd Quarter

A.P. QUARTERLY COMPOSITE
STATION C46 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

4th Quarter

A.P. QUARTERLY COMPOSITE
STATION C46 EFFECTIVE DATE: 12/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.06
2	BA-140	ND	0.01
3	FE-59	0.00	0.00
4	TH-232	ND	0.02
5	I-131	ND	0.01
6	RA-226	ND	0.04
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	0.00	0.00
10	RU-106	ND	0.05
11	CS-137	ND	0.02
12	ZR-95	ND	0.02
13	CO-58	0.00	0.00
14	MN-54	ND	0.01
15	ZN-65	ND	0.02
16	CO-60	0.00	0.00
17	K-40	ND	0.11

1st QUARTER

A.P. QUARTERLY COMPOSITE
STATION C47 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.00
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	ND	0.00
5	I-131	ND	0.00
6	RA-226	0.01	0.00
7	CR-51	ND	0.01
8	RU-103	0.08	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.01
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	ND	0.01

2nd QUARTER

A.P. QUARTERLY COMPOSITE
STATION C47 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.02
2	BA-140	ND	0.02
3	FE-59	ND	0.00
4	TH-232	0.00	0.00
5	I-131	ND	0.13
6	RA-226	0.00	0.00
7	CR-51	ND	0.01
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	ND	0.00

3rd QUARTER

A.P. QUARTERLY COMPOSITE
STATION C47 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.01
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	0.00	0.00
5	I-131	ND	0.00
6	RA-226	0.00	0.00
7	CR-51	ND	0.00
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	ND	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	ND	0.00

4th QUARTER

A.P. QUARTERLY COMPOSITE
STATION C47 EFFECTIVE DATE: 12/31/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	0.01
2	BA-140	ND	0.00
3	FE-59	ND	0.00
4	TH-232	<LLD	0.00
5	I-131	ND	0.00
6	RA-226	0.00	0.00
7	CR-51	ND	0.00
8	RU-103	ND	0.00
9	CS-134	ND	0.00
10	RU-106	ND	0.00
11	CS-137	<LLD	0.00
12	ZR-95	ND	0.00
13	CO-58	ND	0.00
14	MN-54	ND	0.00
15	ZN-65	ND	0.00
16	CO-60	ND	0.00
17	K-40	0.00	0.00

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C04 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C07 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C18 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C26 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C40 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

Sr 89/90 ANALYSIS (pCi/M^3)
A.P. QUARTERLY COMPOSITE

STATION NO. C46 EFFECTIVE DATE: 12/30/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

	3RD QUARTER		4TH QUARTER	
SR-90	-0.30000E+01	0.10000E-02	-0.30000E+01	0.10000E-02
SR-89	-0.30000E+01	0.20000E-02	-0.30000E+01	0.20000E-02

PRECIPITATION PATHWAY

The State has the responsibility to collect and analyze precipitation samples. There are no additional stations for the pathway.

Monthly Gamma Analysis

All monthly samples were collected and analyzed. There are no critical stations in this pathway.

The 1982 operational activities of the nuclides determined by gamma analysis were non-detectable as were the preoperational and all operational activities to date.

Monthly Tritium Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

All of the 1982 operational activity data for tritium were less than the LLD's.

JAN

RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1 CE-144	0.00	0.00
2 BA-140	ND	17.00
3 FE-59	0.00	0.00
4 TH-232	0.00	0.00
5 I-131	ND	17.00
6 RA-226	0.00	0.00
7 CR-51	0.00	0.00
8 RU-103	0.00	0.00
9 CS-134	ND	17.00
10 RU-106	0.00	0.00
11 CS-137	ND	17.00
12 ZR-95	0.00	0.00
13 CO-58	ND	17.00
14 MN-54	ND	15.00
15 ZN-65	ND	30.00
16 CO-60	ND	17.00
17 K-40	0.00	0.00

FEB

RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1 CE-144	0.00	0.00
2 BA-140	ND	17.00
3 FE-59	0.00	0.00
4 TH-232	0.00	0.00
5 I-131	ND	17.00
6 RA-226	0.00	0.00
7 CR-51	0.00	0.00
8 RU-103	0.00	0.00
9 CS-134	ND	17.00
10 RU-106	0.00	0.00
11 CS-137	ND	17.00
12 ZR-95	0.00	0.00
13 CO-58	ND	17.00
14 MN-54	ND	15.00
15 ZN-65	ND	30.00
16 CO-60	ND	17.00
17 K-40	0.00	0.00

MAR

RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1 CE-144	0.00	0.00
2 BA-140	ND	17.00
3 FE-59	0.00	0.00
4 TH-232	0.00	0.00
5 I-131	ND	17.00
6 RA-226	0.00	0.00
7 CR-51	0.00	0.00
8 RU-103	0.00	0.00
9 CS-134	ND	17.00
10 RU-106	0.00	0.00
11 CS-137	ND	17.00
12 ZR-95	0.00	0.00
13 CO-58	ND	17.00
14 MN-54	ND	15.00
15 ZN-65	ND	30.00
16 CO-60	ND	17.00
17 K-40	0.00	0.00

APR

RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1 CE-144	0.00	0.00
2 BA-140	ND	17.00
3 FE-59	0.00	0.00
4 TH-232	0.00	0.00
5 I-131	ND	17.00
6 RA-226	0.00	0.00
7 CR-51	0.00	0.00
8 RU-103	0.00	0.00
9 CS-134	ND	17.00
10 RU-106	0.00	0.00
11 CS-137	ND	17.00
12 ZR-95	0.00	0.00
13 CO-58	ND	17.00
14 MN-54	ND	15.00
15 ZN-65	ND	30.00
16 CO-60	ND	17.00
17 K-40	0.00	0.00

MAY

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RH-225	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

JUN

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RH-225	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

JUL

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RH-225	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

AUG

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RH-225	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Sept

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Oct

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) NOV

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) DEC

PRECIPITATION

STATION 004 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. PCI/KG	LLD. PCI/KG
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) JAN
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) FEB
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) MAR
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) APR
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) MAY
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) JUN
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) JUL
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) AUG
PRECIPITATION
STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Sep
PRECIPITATION

STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) OCT
PRECIPITATION

STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) NOV
PRECIPITATION

STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) DEC
PRECIPITATION

STATION C26 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Jan
PRECIPITATION

STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Feb
PRECIPITATION

STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	0.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) MAR
PRECIPITATION

STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) APR
PRECIPITATION

STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) MAY
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	0.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) JUN
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) JUL
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) AUG
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Sep
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Oct
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Nov
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) Dec
PRECIPITATION
STATION C40 EFFECTIVE DATE: 12/ 6/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

TRITIUM ANALYSIS (PCi/kg)
PRECIPITATION

STATION NO. 004 EFFECTIVE DATE: 12/ 6/82

MONTH	CONC.	LLD.
JAN	-2.00	200.00
FEB	-2.00	200.00
MAR	-2.00	200.00
APR	-2.00	200.00
MAY	-2.00	200.00
JUN	-2.00	200.00
JUL	-2.00	200.00
AUG	-2.00	200.00
SEP	-2.00	200.00
OCT	-2.00	200.00
NOV	-2.00	200.00
DEC	-2.00	200.00

TRITIUM ANALYSIS (PCi/kg)
PRECIPITATION

STATION NO. 025 EFFECTIVE DATE: 12/ 6/82

MONTH	CONC.	LLD.
JAN	-2.00	200.00
FEB	-2.00	200.00
MAR	-2.00	200.00
APR	-2.00	200.00
MAY	-2.00	200.00
JUN	-2.00	200.00
JUL	-2.00	200.00
AUG	-2.00	200.00
SEP	-2.00	200.00
OCT	-2.00	200.00
NOV	-2.00	200.00
DEC	-2.00	200.00

TRITIUM ANALYSIS (PCi/kg)
PRECIPITATION

STATION NO. C40 EFFECTIVE DATE: 12/ 6/82

MONTH	CONC.	LLD.
JAN	-2.00	200.00
FEB	-2.00	200.00
MAR	-2.00	200.00
APR	-2.00	200.00
MAY	-2.00	200.00
JUN	-2.00	200.00
JUL	-2.00	200.00
AUG	-2.00	200.00
SEP	-2.00	200.00
OCT	-2.00	200.00
NOV	-2.00	200.00
DEC	-2.00	200.00

SEAWATER PATHWAY

The University has the responsibility to collect and analyze seawater samples. There are no additional stations for this pathway.

Monthly Gamma Analysis

The sample for station C01 for the month of May was not collected and analyzed. All other samples were collected and analyzed. Sample Station C14G is the critical station in this pathway and no sample had activity greater than 10 times the control station value.

The concentrations of nuclides by gamma analysis during 1982 were consistent with preoperational and operational concentrations for previous years.

Quarterly Tritium Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

The concentrations observed in 1982 were consistent with preoperational and previous operational concentrations.

Quarterly Sr-89 and 90 Analysis

The First Quarter sample at station C01 was not collected and analyzed. All other samples were collected and analyzed. Sr-89/90 are not critical nuclides in this pathway. There are no preoperational data. The 1982 Sr-89/90 concentrations are consistent with those of previous operational years.

Missed Samples

C01 sample for May was collected and analyzed, however, a counting equipment problem was discovered after the sample was discarded.

C01 sample for First Quarter was dropped and lost.

SEA WATER Jan

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	82.90
2	BA-140	ND	29.20
3	FE-59	ND	16.10
4	TH-232	ND	16.60
5	I-131	ND	8.27
6	RA-226	53.70	16.90
7	CR-51	ND	67.50
8	RU-103	ND	6.16
9	CS-134	ND	8.65
10	RU-106	ND	71.30
11	CS-137	ND	9.87
12	ZR-95	ND	14.50
13	CO-58	ND	8.22
14	MN-54	ND	6.93
15	ZN-65	ND	19.00
16	CO-60	ND	8.36
17	K-40	230.00	87.50

SEA WATER Fab

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	47.80
2	BA-140	ND	18.70
3	FE-59	ND	9.23
4	TH-232	15.60	9.22
5	I-131	ND	5.52
6	RA-226	50.00	9.94
7	CR-51	ND	38.80
8	RU-103	ND	4.12
9	CS-134	ND	5.37
10	RU-106	ND	40.70
11	CS-137	ND	5.19
12	ZR-95	ND	8.04
13	CO-58	ND	4.59
14	MN-54	ND	4.39
15	ZN-65	ND	9.52
16	CO-60	ND	5.42
17	K-40	113.00	43.20

SEA WATER March

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	76.70
2	BA-140	ND	26.20
3	FE-59	ND	14.70
4	TH-232	ND	15.80
5	I-131	ND	8.40
6	RA-226	31.00	15.70
7	CR-51	ND	60.90
8	RU-103	ND	7.36
9	CS-134	ND	8.39
10	RU-106	ND	51.40
11	CS-137	ND	8.58
12	ZR-95	ND	13.10
13	CO-58	ND	8.17
14	MN-54	ND	7.80
15	ZN-65	ND	17.00
16	CO-60	ND	8.14
17	K-40	193.00	43.00

SEA WATER April

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	75.40
2	BA-140	ND	26.50
3	FE-59	ND	10.60
4	TH-232	ND	16.40
5	I-131	ND	7.39
6	RA-226	51.50	16.20
7	CR-51	ND	58.80
8	RU-103	ND	6.35
9	CS-134	ND	8.57
10	RU-106	ND	66.90
11	CS-137	ND	8.33
12	ZR-95	ND	12.10
13	CO-58	ND	6.72
14	MN-54	ND	6.34
15	ZN-65	ND	15.60
16	CO-60	ND	5.80
17	K-40	129.00	67.70

SEA WATER May

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	NC/M	NC/M
2	BA-140	NC/M	NC/M
3	FE-59	NC/M	NC/M
4	TH-232	NC/M	NC/M
5	I-131	NC/M	NC/M
6	RA-226	NC/M	NC/M
7	CR-51	NC/M	NC/M
8	RU-103	NC/M	NC/M
9	CS-134	NC/M	NC/M
10	RU-106	NC/M	NC/M
11	CS-137	NC/M	NC/M
12	ZR-95	NC/M	NC/M
13	CO-58	NC/M	NC/M
14	MN-54	NC/M	NC/M
15	ZN-65	NC/M	NC/M
16	CO-60	NC/M	NC/M
17	K-40	NC/M	NC/M

SEA WATER June

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	17.84
2	BA-140	ND	7.55
3	FE-59	ND	3.68
4	TH-232	ND	4.47
5	I-131	ND	2.04
6	RA-226	25.62	7.40
7	CR-51	ND	16.75
8	RU-103	175.77	2.23
9	CS-134	ND	2.38
10	RU-106	ND	22.61
11	CS-137	ND	2.75
12	ZR-95	ND	3.47
13	CO-58	ND	2.16
14	MN-54	ND	2.33
15	ZN-65	ND	4.74
16	CO-60	ND	2.45
17	K-40	ND	42.20

SEA WATER July

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	20.79
2	BA-140	ND	9.86
3	FE-59	ND	5.35
4	TH-232	ND	5.54
5	I-131	ND	2.77
6	RA-226	8.60	7.00
7	CR-51	ND	19.77
8	RU-103	76.70	2.52
9	CS-134	ND	3.40
10	RU-106	ND	28.00
11	CS-137	ND	3.00
12	ZR-95	ND	4.50
13	CO-58	ND	2.36
14	MN-54	ND	3.00
15	ZN-65	ND	5.10
16	CO-60	ND	2.68
17	K-40	89.00	54.00

SEA WATER Aug

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	27.07
2	BA-140	ND	11.79
3	FE-59	ND	6.12
4	TH-232	ND	6.20
5	I-131	ND	3.20
6	RA-226	25.04	11.42
7	CR-51	ND	26.18
8	RU-103	ND	3.45
9	CS-134	ND	3.71
10	RU-106	ND	25.06
11	CS-137	ND	3.56
12	ZR-95	ND	5.32
13	CO-58	ND	3.20
14	MN-54	ND	3.61
15	ZN-65	ND	7.54
16	CO-60	ND	3.70
17	K-40	ND	53.80

SEA WATER Sept

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	58.53
2	BA-140	ND	22.05
3	FE-59	ND	8.45
4	TH-232	ND	11.33
5	I-131	ND	5.59
6	RA-226	35.30	19.02
7	CR-51	ND	44.98
8	RU-103	345.70	5.37
9	CS-134	ND	6.53
10	RU-106	ND	42.92
11	CS-137	ND	7.48
12	ZR-95	ND	9.59
13	CO-58	ND	5.13
14	MN-54	ND	4.80
15	ZN-65	ND	7.97
16	CO-60	ND	4.48
17	K-40	ND	117.37

SEA WATER Oct.

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	346.00
2	BA-140	ND	7.45
3	-59	ND	5.53
4	TH-232	14.20	6.92
5	I-131	ND	4.83
6	RA-226	32.40	6.32
7	CR-51	ND	33.70
8	RU-103	ND	3.39
9	CS-134	ND	2.99
10	RU-106	ND	26.50
11	CS-137	4.39	3.10
12	ZR-95	ND	3.38
13	CO-58	ND	2.91
14	MN-54	ND	2.74
15	ZN-65	ND	6.78
16	CO-60	ND	2.35
17	K-40	201.00	22.90

SEA WATER Nov

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	284.00
2	BA-140	ND	5.12
3	FE-59	ND	4.34
4	TH-232	ND	6.03
5	I-131	ND	3.06
6	RA-226	40.69	7.89
7	CR-51	ND	24.70
8	-103	ND	2.67
9	-134	ND	2.72
10	RU-106	ND	25.10
11	CS-137	ND	3.23
12	ZR-95	ND	2.91
13	CO-58	ND	2.54
14	MN-54	ND	2.41
15	ZN-65	ND	7.96
16	CO-60	ND	2.03
17	K-40	ND	41.90

SEA WATER Dec

STATION C01 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	32.25
2	BA-140	ND	14.06
3	FE-59	ND	7.11
4	TH-232	ND	8.63
5	I-131	ND	3.63
6	RA-226	26.47	14.45
7	CR-51	ND	30.87
8	RU-103	305.27	3.70
9	CS-134	ND	4.20
10	RU-106	ND	31.55
11	CS-137	ND	3.82
12	ZR-95	ND	5.72
13	CO-58	ND	4.11
14	-54	ND	3.56
15	ZN-65	ND	8.65
16	CO-60	ND	4.36
17	K-40	ND	102.97

SEA WATER Jan

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	52.10
2	BA-140	ND	17.50
3	FE-59	ND	8.57
4	TH-232	ND	11.40
5	I-131	ND	4.90
6	RA-226	73.80	11.00
7	CR-51	ND	41.70
8	RU-103	ND	4.72
9	CS-134	5.04	4.36
10	RU-106	ND	41.60
11	CS-137	ND	6.24
12	ZR-95	7.83	6.39
13	CO-58	ND	4.66
14	MN-54	ND	4.83
15	ZN-65	ND	10.90
16	CO-60	ND	4.88
17	K-40	211.00	49.60

SEA WATER Feb

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.60
2	BA-140	ND	25.00
3	FE-59	ND	11.80
4	TH-232	ND	14.80
5	I-131	ND	6.40
6	RA-226	62.00	14.10
7	CR-51	ND	53.70
8	RU-103	ND	6.00
9	CS-134	6.53	4.30
10	RU-106	ND	53.70
11	CS-137	ND	8.19
12	ZR-95	ND	11.00
13	CO-58	ND	6.72
14	MN-54	ND	6.02
15	ZN-65	ND	16.80
16	CO-60	ND	8.13
17	K-40	237.00	67.80

SEA WATER March

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.90
2	BA-140	ND	21.50
3	FE-59	9.98	6.55
4	TH-232	17.10	12.90
5	I-131	ND	6.72
6	RA-226	40.70	15.00
7	CR-51	ND	57.20
8	RU-103	ND	6.35
9	CS-134	ND	7.85
10	RU-106	ND	60.10
11	CS-137	ND	8.33
12	ZR-95	ND	11.20
13	CO-58	ND	6.96
14	MN-54	ND	6.57
15	ZN-65	ND	13.10
16	CO-60	ND	8.52
17	K-40	110.00	71.00

SEA WATER April
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	75.30
2	BA-140	ND	25.40
3	FE-59	ND	14.90
4	TH-232	15.70	13.70
5	I-131	ND	8.06
6	RA-226	28.80	15.60
7	CR-51	ND	57.80
8	RU-103	5.94	4.68
9	CS-134	ND	7.09
10	RU-106	ND	57.10
11	CS-137	ND	8.52
12	ZR-95	ND	12.60
13	CO-58	ND	6.78
14	MN-54	ND	7.35
15	ZN-65	ND	17.90
16	CO-60	ND	9.51
17	K-40	154.00	41.00

SEA WATER May
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	19.06
2	BA-140	ND	7.29
3	FE-59	ND	3.29
4	TH-232	ND	4.56
5	I-131	ND	2.11
6	RA-226	10.99	6.32
7	CR-51	ND	16.94
8	RU-103	ND	2.18
9	CS-134	ND	2.79
10	RU-106	ND	19.76
11	CS-137	ND	2.39
12	ZR-95	ND	4.48
13	CO-58	ND	2.46
14	MN-54	ND	2.19
15	ZN-65	ND	5.01
16	CO-60	ND	1.91
17	K-40	144.67	60.32

SEA WATER June
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	18.75
2	BA-140	ND	7.53
3	FE-59	ND	4.13
4	TH-232	ND	4.39
5	I-131	ND	2.06
6	RA-226	12.85	6.46
7	CR-51	ND	16.54
8	RU-103	78.88	2.05
9	CS-134	ND	2.84
10	RU-106	ND	21.25
11	CS-137	ND	2.60
12	ZR-95	ND	4.39
13	CO-58	ND	2.39
14	MN-54	ND	2.31
15	ZN-65	ND	5.27
16	CO-60	ND	2.06
17	K-40	140.64	61.26

SEA WATER July
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	22.28
2	BA-140	ND	10.40
3	FE-59	ND	3.77
4	TH-232	ND	4.99
5	I-131	ND	2.62
6	RA-226	26.74	8.28
7	CR-51	ND	20.06
8	RU-103	238.69	2.57
9	CS-134	ND	2.94
10	RU-106	ND	19.90
11	CS-137	ND	2.70
12	ZR-95	ND	4.55
13	CO-58	ND	1.94
14	MN-54	ND	2.34
15	ZN-65	ND	5.59
16	CO-60	ND	2.78
17	K-40	106.89	52.55

SEA WATER Aug
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	25.21
2	BA-140	ND	9.31
3	FE-59	ND	4.20
4	TH-232	ND	5.68
5	I-131	ND	2.75
6	RA-226	15.71	9.40
7	CR-51	ND	24.39
8	RU-103	209.11	2.74
9	CS-134	ND	3.93
10	RU-106	ND	22.59
11	CS-137	ND	2.82
12	ZR-95	ND	5.20
13	CO-58	ND	2.12
14	MN-54	ND	3.26
15	ZN-65	ND	6.70
16	CO-60	ND	3.45
17	K-40	118.61	73.69

SEA WATER Sept.
STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	53.91
2	BA-140	ND	14.84
3	FE-59	ND	9.11
4	TH-232	ND	10.79
5	I-131	ND	4.89
6	RA-226	26.25	16.52
7	CR-51	ND	44.99
8	RU-103	309.62	4.99
9	CS-134	ND	5.86
10	RU-106	ND	47.72
11	CS-137	ND	6.44
12	ZR-95	ND	8.82
13	CO-58	ND	4.60
14	MN-54	ND	4.94
15	ZN-65	ND	10 53
16	CO-60	ND	4.31
17	K-40	ND	92.11

SEA WATER Oct.

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	481.00
2	BA-140	ND	10.50
3	FE-59	ND	5.89
4	TH-232	15.30	10.20
5	I-131	ND	5.82
6	RA-226	28.40	9.64
7	CR-51	ND	45.80
8	RU-103	ND	4.77
9	CS-134	ND	3.90
10	RU-106	ND	37.20
11	CS-137	ND	5.09
12	ZR-95	ND	3.45
13	CO-58	ND	3.94
14	MN-54	ND	4.04
15	ZN-65	ND	9.04
16	CO-60	ND	2.91
17	K-40	178.00	49.20

SEA WATER Nov.

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	508.00
2	BA-140	ND	10.70
3	FE-59	ND	8.06
4	TH-232	ND	10.50
5	I-131	ND	5.99
6	RA-226	26.30	13.20
7	CR-51	ND	41.50
8	RU-103	ND	53.90
9	CS-134	ND	4.68
10	RU-106	ND	46.10
11	CS-137	ND	6.14
12	ZR-95	ND	4.79
13	CO-58	ND	4.68
14	MN-54	ND	4.10
15	ZN-65	ND	11.20
16	CO-60	ND	4.45
17	K-40	ND	104.00

SEA WATER Dec.

STATION C09 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	31.57
2	BA-140	ND	12.24
3	FE-59	ND	6.97
4	TH-232	ND	8.39
5	I-131	ND	3.87
6	RA-226	16.69	13.10
7	CR-51	ND	30.17
8	RU-103	223.56	3.46
9	CS-134	ND	4.35
10	RU-106	ND	37.09
11	CS-137	ND	4.07
12	ZR-95	ND	6.30
13	CO-58	ND	4.01
14	MN-54	ND	3.12
15	ZN-65	ND	7.43
16	CO-60	ND	3.48
17	K-40	189.07	99.13

SEA WATER Jan

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	73.00
2	BA-140	ND	25.50
3	FE-59	ND	14.80
4	TH-232	ND	15.00
5	I-131	ND	8.01
6	RA-226	53.20	16.30
7	CR-51	ND	56.20
8	RU-103	ND	6.14
9	CS-134	ND	8.80
10	RU-106	69.60	44.30
11	CS-137	ND	8.43
12	ZR-95	ND	12.60
13	CO-58	ND	7.11
14	MN-54	ND	7.40
15	ZN-65	ND	14.70
16	CO-60	ND	7.88
17	K-40	312.00	69.90

SEA WATER Feb

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.40
2	BA-140	ND	26.40
3	FE-59	16.70	6.14
4	TH-232	ND	14.90
5	I-131	ND	8.14
6	RA-226	55.50	14.40
7	CR-51	ND	59.00
8	RU-103	ND	6.15
9	CS-134	ND	7.66
10	RU-106	ND	58.70
11	CS-137	ND	8.21
12	ZR-95	ND	14.60
13	CO-58	ND	6.24
14	MN-54	ND	6.43
15	ZN-65	ND	19.60
16	CO-60	ND	7.29
17	K-40	308.00	89.30

SEA WATER March

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	71.40
2	BA-140	ND	23.40
3	FE-59	ND	12.90
4	TH-232	21.00	12.80
5	I-131	ND	7.04
6	RA-226	30.80	13.80
7	CR-51	ND	57.70
8	RU-103	ND	7.39
9	CS-134	ND	7.29
10	RU-106	ND	53.50
11	CS-137	ND	8.92
12	ZR-95	ND	12.40
13	CO-59	ND	7.21
14	MN-54	ND	5.98
15	ZN-65	ND	11.90
16	CO-60	ND	7.76
17	K-40	255.00	82.30

SEA WATER
STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	71.70
2	BA-140	ND	25.70
3	FE-59	ND	13.70
4	TH-232	13.80	12.90
5	I-131	ND	7.47
6	PA-226	28.80	14.40
7	CR-51	ND	59.30
8	RU-103	ND	6.11
9	CS-134	ND	7.88
10	RU-106	ND	54.20
11	CS-137	ND	7.79
12	ZR-95	ND	11.40
13	CO-58	ND	7.74
14	MN-54	ND	7.11
15	ZN-65	ND	17.90
16	CO-60	ND	7.64
17	K-40	321.00	83.40

SEA WATER
STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	14.26
2	BA-140	ND	6.67
3	FE-59	ND	3.39
4	TH-232	ND	3.18
5	I-131	ND	1.64
6	PA-226	ND	4.61
7	CR-51	ND	13.75
8	RU-103	ND	1.62
9	CS-134	ND	1.76
10	RU-106	ND	16.34
11	CS-137	ND	2.01
12	ZR-95	ND	2.97
13	CO-58	ND	1.84
14	MN-54	ND	1.52
15	ZN-65	ND	3.87
16	CO-60	ND	1.71
17	K-40	255.66	62.10

SEA WATER
STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	17.52
2	BA-140	ND	7.30
3	FE-59	ND	3.89
4	TH-232	ND	4.27
5	I-131	ND	2.13
6	PA-226	9.59	5.97
7	CR-51	ND	18.64
8	RU-103	ND	2.38
9	CS-134	ND	2.32
10	RU-106	ND	19.87
11	CS-137	ND	2.77
12	ZR-95	ND	3.68
13	CO-58	ND	2.54
14	MN-54	ND	2.34
15	ZN-65	ND	4.41
16	CO-60	ND	2.32
17	K-40	ND	78.04

SEA WATER JULY

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	21.76
2	BA-140	ND	8.62
3	FE-59	ND	4.66
4	TH-232	ND	4.96
5	I-131	ND	2.38
6	RA-226	13.10	7.58
7	CR-51	ND	18.98
8	RU-103	122.65	2.55
9	CS-134	ND	2.49
10	RU-106	ND	25.89
11	CS-137	ND	2.96
12	ZR-95	ND	4.23
13	CO-58	ND	3.07
14	MN-54	ND	2.31
15	ZN-65	ND	5.14
16	CO-60	ND	2.89
17	K-40	202.94	72.18

SEA WATER AUG

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	25.25
2	BA-140	ND	13.68
3	FE-59	ND	7.11
4	TH-232	ND	5.54
5	I-131	ND	2.76
6	RA-226	ND	8.36
7	CR-51	ND	24.12
8	RU-103	ND	2.89
9	CS-134	ND	3.37
10	RU-106	ND	30.04
11	CS-137	ND	3.32
12	ZR-95	ND	5.62
13	CO-58	ND	3.14
14	MN-54	ND	3.80
15	ZN-65	ND	4.99
16	CO-60	ND	3.00
17	K-40	227.48	97.25

SEA WATER SEPT

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	28.72
2	BA-140	17.67	10.48
3	FE-59	ND	5.01
4	TH-232	ND	5.91
5	I-131	ND	2.97
6	RA-226	14.79	8.57
7	CR-51	ND	24.91
8	RU-103	242.36	2.78
9	CS-134	ND	3.35
10	RU-106	ND	23.95
11	CS-137	ND	3.49
12	ZR-95	ND	4.96
13	CO-58	ND	2.54
14	MN-54	ND	2.69
15	ZN-65	ND	5.51
16	CO-60	ND	2.59
17	K-40	324.33	73.15

SEA WATER OCT

STATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	495.00
2	BA-140	ND	10.20
3	FE-59	ND	9.64
4	TH-232	ND	9.48
5	I-131	ND	6.30
6	RA-226	37.00	9.63
7	CR-51	ND	53.10
8	RU-103	ND	5.21
9	CS-134	ND	4.33
10	RU-106	ND	38.50
11	CS-137	6.65	4.80
12	ZR-95	ND	4.98
13	CO-58	ND	4.14
14	MN-54	ND	4.37
15	ZN-65	ND	9.40
16	CO-60	ND	4.72
17	K-40	336.00	45.40

SEA WATER NOV

TATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
	CE-144	ND	352.00
2	BA-140	ND	7.83
3	FE-59	ND	5.66
4	TH-232	ND	6.64
5	I-131	ND	4.64
6	RA-226	34.00	7.82
7	CR-51	ND	33.50
8	RU-103	ND	3.60
9	CS-134	ND	3.19
10	RU-106	ND	29.80
11	CS-137	ND	3.98
12	ZR-95	ND	3.17
13	CO-58	ND	3.10
14	MN-54	ND	3.13
15	ZN-65	ND	9.11
16	CO-60	ND	3.10
17	K-40	ND	94.40

SEA WATER DEC

TATION C13 EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	50.39
2	BA-140	ND	15.99
3	FE-59	ND	7.22
4	TH-232	ND	9.24
	I-131	ND	5.16
6	RA-226	~~26.24~~ ND	15.33
7	CR-51	ND	42.89
8	RU-103	294.60	4.88
9	CS-134	ND	4.69
10	RU-106	ND	40.58
11	CS-137	ND	5.78
12	ZR-95	ND	8.13
13	CO-58	ND	4.35
14	MN-54	ND	4.12
15	ZN-65	ND	10.74
16	CO-60	ND	4.17
17	K-40	325.79	123.61

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
	CE-144	ND	70.10
2	BA-140	ND	24.00
3	FE-59	ND	12.80
4	TH-232	ND	14.70
5	I-131	ND	7.34
6	RA-226	19.80	13.90
7	CR-51	ND	50.20
8	RU-103	ND	6.54
9	CS-134	ND	7.50
10	RU-106	ND	66.90
11	CS-137	ND	7.64
12	ZR-95	ND	13.70
13	CO-58	ND	6.93
14	MN-54	ND	7.66
15	ZN-65	ND	12.90
16	CO-60	ND	6.11
17	K-40	222.00	105.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	72.90
2	BA-140	ND	24.80
3	FE-59	ND	13.00
4	TH-232	ND	15.40
5	I-131	ND	7.21
	RA-226	64.50	15.90
7	CR-51	ND	58.30
8	RU-103	ND	6.16
9	CS-134	ND	8.05
10	RU-106	ND	54.40
11	CS-137	ND	9.21
12	ZR-95	ND	11.20
13	CO-58	ND	6.95
14	MN-54	ND	6.31
15	ZN-65	ND	16.90
16	CO-60	ND	7.01
17	K-40	313.00	67.30

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.00
2	BA-140	ND	22.00
3	FE-59	ND	14.90
4	TH-232	ND	14.00
5	I-131	ND	6.34
6	RA-226	27.40	13.70
7	CR-51	ND	55.90
8	RU-103	ND	5.91
9	CS-134	ND	8.89
10	RU-106	ND	54.60
	CS-137	ND	8.16
	ZR-95	ND	11.00
13	CO-58	ND	6.14
14	MN-54	ND	7.29
15	ZN-65	ND	12.70
16	CO-60	ND	8.27
17	K-40	300.00	69.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

APR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	70.70
2	BA-140	ND	22.50
	FE-59	ND	11.60
4	TH-232	ND	14.70
5	I-131	ND	5.65
6	RA-226	43.80	14.60
7	CR-51	ND	56.00
8	RU-103	ND	6.05
9	CS-134	ND	7.60
10	RU-106	ND	50.70
11	CS-137	ND	8.31
12	ZR-95	ND	12.60
13	CO-58	ND	5.88
14	MN-54	ND	6.73
15	ZN-65	ND	16.80
16	CO-60	ND	6.95
17	K-40	355.00	51.30

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

MAY

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	40.14
2	BA-140	ND	12.98
3	FE-59	ND	8.42
4	TH-232	ND	9.55
5	I-131	ND	4.80
6	RA-226	55.29	20.36
7	CR-51	ND	36.94
	RU-103	528.38	5.04
9	CS-134	ND	5.24
10	RU-106	ND	42.19
11	CS-137	ND	4.92
12	ZR-95	ND	7.15
13	CO-58	ND	5.01
14	MN-54	ND	4.55
15	ZN-65	ND	10.98
16	CO-60	ND	4.36
17	K-40	258.41	143.47

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

JUN

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	28.79
2	BA-140	ND	12.78
3	FE-59	ND	6.05
4	TH-232	ND	6.53
5	I-131	ND	3.35
6	RA-226	24.87	12.15
7	CR-51	ND	24.68
8	RU-103	276.25	3.22
9	CS-134	ND	3.98
10	RU-106	ND	33.18
11	CS-137	ND	4.00
12	ZR-95	ND	66.43
13	CO-58	ND	33.75
	MN-54	ND	3.70
15	ZN-65	ND	7.22
16	CO-60	ND	3.79
17	K-40	330.83	117.53

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

JUL

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	33.65
2	BA-140	ND	12.97
3	FE-59	ND	7.56
4	TH-232	ND	7.62
5	I-131	ND	4.13
6	RA-226	28.67	15.24
7	CR-51	ND	33.73
8	RU-103	435.28	3.83
9	CS-134	ND	3.65
10	RU-106	ND	35.94
11	CS-137	ND	4.15
12	ZR-95	ND	6.23
13	CO-58	ND	4.04
14	MN-54	ND	4.01
15	ZN-65	ND	9.03
16	CO-60	ND	3.80
17	K-40	193.27	125.19

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

AUG

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	28.47
2	BA-140	ND	15.38
3	FE-59	ND	5.10
4	TH-232	ND	6.82
5	I-131	ND	3.33
6	RA-226	ND	9.51
7	CR-51	ND	25.11
8	RU-103	ND	3.18
9	CS-134	ND	3.60
10	RU-106	ND	26.43
11	CS-137	ND	3.44
12	ZR-95	ND	7.10
13	CO-58	ND	2.84
14	MN-54	ND	3.36
15	ZN-65	ND	10.20
16	CO-60	ND	3.54
17	K-40	235.19	111.52

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

SEP

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	56.18
2	BA-140	ND	10.32
3	FE-59	ND	8.64
4	TH-232	ND	12.00
5	I-131	ND	5.64
6	RA-226	26.64	17.44
7	CR-51	ND	46.52
8	RU-103	268.23	48.89
9	CS-134	ND	5.88
10	RU-106	ND	48.89
11	CS-137	<LLD	7.54
12	ZR-95	ND	9.31
13	CO-58	ND	4.90
14	MN-54	ND	4.82
15	ZN-65	ND	10.71
16	CO-60	ND	5.32
17	K-40	364.69	141.32

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	477.00
2	BA-140	ND	10.10
3	FE-59	ND	8.41
4	TH-232	ND	9.62
5	I-131	ND	6.31
6	RA-226	33.20	9.26
7	CR-51	ND	42.80
8	RU-103	ND	5.26
9	CS-134	ND	4.21
10	RU-106	ND	37.00
11	CS-137	ND	4.26
12	ZR-95	ND	4.53
13	CO-58	ND	4.12
14	MN-54	ND	3.41
15	ZN-65	ND	9.74
16	CO-60	ND	4.07
17	K-40	380.00	57.20

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	518.00
2	BA-140	ND	11.00
3	FE-59	ND	8.18
4	TH-232	ND	10.60
5	I-131	ND	6.52
6	RA-226	59.30	13.80
7	CR-51	ND	49.60
8	RU-103	ND	5.39
9	CS-134	ND	4.82
10	RU-106	ND	43.10
11	CS-137	ND	6.25
12	ZR-95	ND	5.54
13	CO-58	ND	4.36
14	MN-54	ND	4.34
15	ZN-65	ND	17.70
16	CO-60	ND	4.18
17	K-40	ND	103.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14H EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	43.95
2	BA-140	ND	15.80
3	FE-59	ND	9.83
4	TH-232	ND	11.25
5	I-131	ND	4.53
6	RA-226	<LLD	17.19
7	CR-51	ND	37.36
8	RU-103	180.60	4.76
9	CS-134	ND	5.17
10	RU-106	ND	47.96
11	CS-137	ND	5.79
12	ZR-95	ND	8.98
13	CO-58	ND	4.98
14	MN-54	ND	5.05
15	ZN-65	ND	13.89
16	CO-60	ND	3.88
17	K-40	307.25	102.53

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

JAN

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	73.90
2	BA-140	ND	25.50
3	FE-59	ND	11.90
4	TH-232	ND	15.90
5	I-131	ND	8.16
6	RA-226	18.20	14.30
7	CR-51	ND	64.80
8	RU-103	ND	6.47
9	CS-134	ND	8.79
10	RU-106	ND	73.10
11	CS-137	7.91	5.30
12	ZR-95	ND	10.10
13	CO-58	ND	73.60
14	MN-54	ND	6.51
15	ZN-65	ND	16.60
16	CO-60	ND	8.15
17	K-40	323.00	79.80

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

FEB

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	66.50
2	BA-140	ND	24.00
3	FE-59	ND	14.10
4	TH-232	ND	13.90
5	I-131	ND	6.50
6	RA-226	76.50	14.40
7	CR-51	ND	54.30
8	RU-103	ND	5.75
9	CS-134	ND	7.02
10	RU-106	ND	54.20
11	CS-137	ND	7.45
12	ZR-95	ND	11.80
13	CO-58	ND	5.81
14	MN-54	ND	6.59
15	ZN-65	ND	14.40
16	CO-60	ND	7.88
17	K-40	304.00	66.70

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

MAR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.30
2	BA-140	ND	28.00
3	FE-59	ND	15.80
4	TH-232	ND	14.80
5	I-131	ND	7.86
6	RA-226	15.40	14.10
7	CR-51	ND	59.10
8	RU-103	ND	5.75
9	CS-134	ND	7.29
10	RU-106	ND	60.50
11	CS-137	ND	7.17
12	ZR-95	ND	10.90
13	CO-58	ND	6.29
14	MN-54	ND	6.96
15	ZN-65	ND	14.80
16	CO-60	ND	8.15
17	K-40	250.00	103.00

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

APR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	72.10
2	BA-140	ND	21.60
3	FE-59	ND	11.40
4	TH-232	ND	15.90
5	I-131	ND	7.03
6	RA-226	63.20	14.30
7	CR-51	ND	61.90
8	RU-103	ND	6.81
9	CS-134	ND	8.67
10	RU-106	ND	65.70
11	CS-137	ND	8.19
12	ZR-95	ND	13.10
13	CO-58	ND	6.34
14	MN-54	ND	7.05
15	ZN-65	ND	18.40
16	CO-60	ND	8.38
17	K-40	262.00	76.80

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

MAY

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	33.98
2	BA-140	ND	13.30
3	FE-59	ND	7.08
4	TH-232	ND	7.70
5	I-131	ND	3.30
6	RA-226	22.59	13.10
7	CR-51	ND	30.82
8	RU-103	295.92	3.85
9	CS-134	ND	4.00
10	RU-106	ND	34.70
11	CS-137	ND	5.10
12	ZR-95	ND	6.90
13	CO-58	ND	3.97
14	MN-54	ND	3.50
15	ZN-65	ND	8.40
16	CO-60	ND	4.42
17	K-40	276.50	119.60

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

JUN

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	22.07
2	BA-140	ND	10.04
3	FE-59	ND	5.89
4	TH-232	ND	5.28
5	I-131	21.58	2.58
6	RA-226	17.50	7.65
7	CR-51	ND	20.02
8	RU-103	ND	2.65
9	CS-134	ND	2.83
10	RU-106	ND	22.71
11	CS-137	ND	3.07
12	ZR-95	ND	4.30
13	CO-58	ND	2.55
14	MN-54	ND	2.43
15	ZN-65	ND	5.56
16	CO-60	ND	2.85
17	K-40	291.19	90.83

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

JUL

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	34.10
2	BA-140	ND	14.53
3	FE-59	ND	8.39
4	TH-232	ND	7.63
5	I-131	7.80	3.40
6	RA-226	32.01	15.08
7	CR-51	ND	33.38
8	RU-103	334.13	3.45
9	CS-134	ND	3.57
10	RU-106	ND	30.56
11	CS-137	ND	4.46
12	ZR-95	ND	5.57
13	CO-58	ND	4.37
14	MN-54	ND	3.86
15	ZN-65	ND	9.43
16	CO-60	ND	3.85
17	K-40	264.85	116.61

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

AUG

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	18.86
2	BA-140	ND	8.72
3	FE-59	ND	4.54
4	TH-232	ND	4.49
5	I-131	ND	2.34
6	RA-226	16.92	7.29
7	CR-51	ND	18.48
8	RU-103	154.18	2.14
9	CS-134	ND	2.84
10	RU-106	ND	21.71
11	CS-137	ND	2.84
12	ZR-95	ND	4.31
13	CO-58	ND	2.15
14	MN-54	ND	2.46
15	ZN-65	ND	4.76
16	CO-60	ND	2.59
17	K-40	246.40	73.52

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

SEP

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	64.34
2	BA-140	ND	21.66
3	FE-59	ND	9.89
4	TH-232	ND	12.88
5	I-131	<LLD	6.00
6	RA-226	ND	17.42
7	CR-51	ND	51.47
8	RU-103	228.51	6.29
9	CS-134	ND	6.39
10	RU-106	ND	54.29
11	CS-137	ND	8.06
12	ZR-95	ND	9.41
13	CO-58	ND	5.16
14	MN-54	ND	4.99
15	ZN-65	ND	10.23
16	CO-60	ND	5.74
17	K-40	ND	158.10

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

OCT

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	288.00
2	BA-140	ND	6.42
3	FE-59	ND	5.02
4	TH-232	12.20	6.27
5	I-131	ND	4.07
6	RA-226	25.30	5.66
7	CR-51	ND	27.80
8	RU-103	ND	2.68
9	CS-134	ND	2.65
10	RU-106	ND	23.70
11	CS-137	ND	3.13
12	ZR-95	ND	2.63
13	CO-58	ND	2.37
14	MN-54	ND	2.51
15	ZN-65	ND	5.19
16	CO-60	ND	2.63
17	K-40	385.00	237.00

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

NOV

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	532.00
2	BA-140	ND	10.80
3	FE-59	ND	9.70
4	TH-232	16.60	10.50
5	I-131	ND	7.39
6	RA-226	32.90	12.70
7	CR-51	ND	53.60
8	RU-103	ND	4.91
9	CS-134	ND	4.14
10	RU-106	ND	45.10
11	CS-137	ND	6.12
12	ZR-95	ND	4.74
13	CO-58	ND	4.29
14	MN-54	ND	5.13
15	ZN-65	ND	10.90
16	CO-60	ND	4.87
17	K-40	ND	136.00

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER
STATION C14M EFFECTIVE DATE: 12/10/82

DEC

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	68.89
2	BA-140	ND	24.94
3	FE-59	ND	14.10
4	TH-232	ND	13.54
5	I-131	ND	6.79
6	RA-226	44.00	23.40
7	CR-51	ND	59.58
8	RU-103	570.30	6.48
9	CS-134	ND	6.74
10	RU-106	ND	51.37
11	CS-137	ND	8.00
12	ZR-95	ND	11.34
13	CO-58	ND	6.48
14	MN-54	ND	6.32
15	ZN-65	ND	13.78
16	CO-60	ND	6.74
17	K-40	406.75	167.71

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER Jan

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.90
2	BA-140	ND	21.90
3	FE-59	ND	12.20
4	TH-232	ND	14.90
5	I-131	ND	6.97
6	PA-226	31.30	15.40
7	CR-51	ND	56.00
8	RU-103	ND	6.21
9	CS-134	ND	9.04
10	RU-106	ND	63.40
11	CS-137	10.20	4.70
12	ZR-95	ND	12.10
13	CO-58	ND	7.39
14	MN-54	ND	6.85
15	ZN-65	ND	18.50
16	CO-60	ND	6.10
17	K-40	329.00	61.00

TO MAKE CHANGES. TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER Feb

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	39.50
2	BA-140	ND	13.80
3	FE-59	ND	6.63
4	TH-232	10.50	7.67
5	I-131	ND	4.01
6	PA-226	41.60	7.58
7	CR-51	ND	31.60
8	RU-103	ND	3.47
9	CS-134	ND	4.49
10	RU-106	ND	32.20
11	CS-137	ND	4.41
12	ZR-95	ND	6.43
13	CO-58	ND	3.76
14	MN-54	ND	3.34
15	ZN-65	ND	8.92
16	CO-60	ND	4.04
17	K-40	287.00	35.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER March

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	54.70
2	BA-140	ND	10.30
3	FE-59	ND	11.30
4	TH-232	11.70	10.80
5	I-131	ND	5.05
6	PA-226	50.90	10.70
7	CR-51	ND	44.20
8	RU-103	ND	4.68
9	CS-134	ND	6.36
10	RU-106	ND	47.30
11	CS-137	ND	6.12
12	ZR-95	ND	8.67
13	CO-58	ND	4.93
14	MN-54	ND	5.02
15	ZN-65	ND	12.00
16	CO-60	ND	5.75
17	K-40	263.00	55.20

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER April
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	51.60
2	BA-140	ND	14.70
3	FE-59	ND	10.10
4	TH-232	ND	11.30
5	I-131	ND	5.25
6	PA-226	46.00	11.30
7	CR-51	ND	42.60
8	RU-103	ND	4.74
9	CS-134	ND	6.39
10	RU-106	ND	41.30
11	CS-137	ND	6.10
12	ZR-95	ND	9.09
13	CO-58	ND	4.75
14	MN-54	ND	5.10
15	ZN-65	ND	12.20
16	CO-60	ND	5.87
17	K-40	244.00	50.10

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER May
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	30.56
2	BA-140	ND	12.34
3	FE-59	ND	6.00
4	TH-232	ND	7.04
5	I-131	ND	3.23
6	PA-226	ND	8.16
7	CR-51	ND	24.79
8	RU-103	ND	3.74
9	CS-134	ND	3.99
10	RU-106	ND	33.85
11	CS-137	ND	4.27
12	ZR-95	ND	5.31
13	CO-58	ND	3.44
14	MN-54	ND	4.15
15	ZN-65	ND	6.93
16	CO-60	ND	3.41
17	K-40	286.40	120.74

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER June
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	19.61
2	BA-140	<LLD	8.55
3	FE-59	ND	4.69
4	TH-232	ND	4.50
5	I-131	ND	2.21
6	PA-226	21.92	7.83
7	CR-51	ND	19.55
8	RU-103	214.41	2.27
9	CS-134	ND	2.69
10	RU-106	ND	21.96
11	CS-137	ND	2.82
12	ZR-95	ND	4.18
13	CO-58	ND	2.21
14	MN-54	ND	2.19
15	ZN-65	ND	5.87
16	CO-60	ND	2.52
17	K-40	246.00	76.10

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER July

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	31.79
2	BA-140	ND	12.66
3	FE-59	<LLD	7.00
4	TH-232	ND	7.12
5	I-131	ND	3.28
6	RA-226	16.27	12.42
7	CR-51	ND	28.48
8	RU-103	166.65	3.75
9	CS-134	ND	3.76
10	RU-106	ND	38.91
11	CS-137	<LLD	3.67
12	ZR-95	ND	5.84
13	CO-58	ND	4.37
14	MN-54	ND	3.13
15	ZN-65	ND	7.10
16	CO-60	ND	3.33
17	K-40	ND	105.51

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

SEA WATER Aug

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	29.52
2	BA-140	ND	13.43
3	FE-59	ND	7.43
4	TH-232	ND	7.12
5	I-131	ND	3.36
6	RA-226	16.89	11.04
7	CR-51	<LLD	29.35
8	RU-103	126.27	4.19
9	CS-134	21.38	4.97
10	RU-106	<LLD	31.45
11	CS-137	ND	3.44
12	ZR-95	ND	5.59
13	CO-58	ND	3.39
14	MN-54	ND	3.08
15	ZN-65	ND	9.46
16	CO-60	ND	3.16
17	K-40	ND	119.65

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER Sept

STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	29.57
2	BA-140	ND	10.36
3	FE-59	ND	4.91
4	TH-232	ND	5.74
5	I-131	ND	2.97
6	RA-226	19.65	8.76
7	CR-51	ND	24.69
8	RU-103	243.18	2.72
9	CS-134	ND	3.00
10	RU-106	ND	24.30
11	CS-137	ND	3.40
12	ZR-95	ND	4.50
13	CO-58	ND	2.63
14	MN-54	ND	2.39
15	ZN-65	ND	5.30
16	CO-60	ND	2.96
17	K-40	313.64	69.88

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER Oct
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	484.00
2	BA-140	ND	9.42
3	FE-59	ND	7.54
4	TH-232	20.70	10.80
5	I-131	ND	4.98
6	PA-226	26.10	9.60
7	CR-51	ND	43.00
8	RU-103	ND	4.70
9	CS-134	ND	4.70
10	RU-106	ND	40.00
11	CS-137	5.64	4.20
12	ZR-95	ND	3.77
13	CO-58	ND	4.54
14	MN-54	ND	4.14
15	ZN-65	ND	9.71
16	CO-60	ND	3.87
17	K-40	260.00	55.40

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER NOV
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	342.00
2	BA-140	ND	6.56
3	FE-59	ND	4.50
4	TH-232	ND	6.40
5	I-131	ND	3.69
6	PA-226	20.70	7.90
7	CR-51	ND	26.70
8	RU-103	ND	2.84
9	CS-134	ND	2.50
10	RU-106	ND	24.10
11	CS-137	ND	3.26
12	ZR-95	ND	2.88
13	CO-58	ND	2.40
14	MN-54	ND	2.30
15	ZN-65	ND	6.96
16	CO-60	ND	2.65
17	K-40	ND	67.40

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

SEA WATER Dec.
STATION C14G EFFECTIVE DATE: 12/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	50.20
2	BA-140	ND	18.93
3	FE-59	ND	9.73
4	TH-232	ND	9.96
5	I-131	ND	5.50
6	PA-226	69.71	18.24
7	CR-51	ND	42.30
8	RU-103	849.71	5.14
9	CS-134	ND	5.26
10	RU-106	ND	43.52
11	CS-137	ND	5.74
12	ZR-95	ND	7.10
13	CO-58	ND	4.40
14	MN-54	ND	4.67
15	ZN-65	ND	10.16
16	CO-60	ND	4.83
17	K-40	303.06	115.65

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C01 EFFECTIVE DATE: 10/13/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.10000E+01	-0.10000E+01	0.54900E+00	0.30500E+00
SR-89	-0.10000E+01	-0.10000E+01	-0.30000E+01	0.39100E+00

	3RD QUARTER		4TH QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.45400E+00	0.22600E+00	0.44400E+00	0.22600E+00
SR-89	-0.70000E+01	0.10800E+01	-0.30000E+01	0.49000E+00

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C09 EFFECTIVE DATE: 10/13/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.67500E+00	0.27100E+00	-0.30000E+01	0.28900E+00
SR-89	-0.30000E+01	0.95000E+00	0.12200E+01	0.36300E+00

	3RD QUARTER		4TH QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.19400E+00	-0.30000E+01	0.20000E+00
SR-89	0.94100E+00	0.88700E+00	0.10800E+01	0.48700E+00

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C13 EFFECTIVE DATE: 10/13/82

	1ST QUARTER		2ND QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.36700E+01	0.25600E+00	0.57300E+00	0.24700E+00
SR-89	-0.30000E+01	0.87100E+00	-0.30000E+01	0.30300E+00

	3RD QUARTER		4TH QUARTER	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.68000E+00	0.15800E+00	-0.30000E+01	0.22300E+00
SR-89	-0.30000E+01	0.69200E+00	0.93300E+00	0.47000E+00

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14H EFFECTIVE DATE: 10/13/82

	1ST QUARTER CONC.	1ST QUARTER LLD.	2ND QUARTER CONC.	2ND QUARTER LLD.
SR-90	-0.30000E+01	0.28300E+00	0.91900E+00	0.25900E+00
SR-89	-0.30000E+01	0.79700E+00	-0.30000E+01	0.29600E+00

	3RD QUARTER		4TH QUARTER	
SR-90	-0.20000E+01	0.15000E+00	0.20200E+01	0.23600E+00
SR-89	-0.30000E+01	0.64100E+00	-0.30000E+01	0.42700E+00

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14H EFFECTIVE DATE: 10/13/82

	1ST QUARTER CONC.	1ST QUARTER LLD.	2ND QUARTER CONC.	2ND QUARTER LLD.
SR-90	-0.30000E+01	0.27900E+00	0.28200E+01	0.15500E+01
SR-89	-0.20000E+01	0.74000E+00	-0.30000E+01	0.17400E+01

	3RD QUARTER		4TH QUARTER	
SR-90	0.34100E+00	0.17100E+00	-0.30000E+01	0.23000E+00
SR-89	-0.30000E+01	0.71400E+00	-0.30000E+01	0.51500E+00

Sr 89/90 ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14G EFFECTIVE DATE: 10/13/82

	1ST QUARTER CONC.	1ST QUARTER LLD.	2ND QUARTER CONC.	2ND QUARTER LLD.
SR-90	-0.30000E+01	0.31100E+00	-0.30000E+01	0.37400E+00
SR-89	0.98400E+00	0.70900E+00	0.12500E+01	0.36700E+00

	3RD QUARTER		4TH QUARTER	
SR-90	0.17000E+00	0.16700E+00	0.25300E+00	0.24100E+00
SR-89	-0.30000E+01	0.66900E+00	-0.30000E+01	0.49800E+00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C01 EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	567.00	-3.00	307.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	381.00	-2.00	434.00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C09 EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	567.00	334.00	307.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	381.00	-3.00	434.00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C13 EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
952.00	567.00	559.00	301.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	381.00	-2.00	434.00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14H EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	567.00	1208.00	307.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	381.00	-3.00	434.00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14M EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
1050.00	567.00	-3.00	307.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	381.00	-2.00	434.00

TRITIUM ANALYSIS (pCi/kg)
SEA WATER COMPOSITE

STATION NO. C14G EFFECTIVE DATE: 10/13/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
594.00	567.00	-3.00	307.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	381.00	458.60	434.00

RIVER WATER PATHWAY

The State has the responsibility to collect and analyze river water samples. There are no additional stations for this pathway.

Quarterly Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. Neither preoperational nor operational samples have had detectable activities present within the required LLD's.

Quarterly Tritium Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. Neither preoperational nor operational samples have had detectable activities present within the required LLD's.

RIVER WATER 1st Quarter

STATION C15 EFFECTIVE DATE: 11/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	ND	30.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

RIVER WATER 2nd Quarter

STATION C15 EFFECTIVE DATE: 11/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	ND	30.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

RIVER WATER 3rd Quarter

STATION C15 EFFECTIVE DATE: 11/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	ND	30.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

RIVER WATER 4th Quarter

STATION C15 EFFECTIVE DATE: 11/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	ND	30.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

TRITIUM ANALYSIS (pCi/kg)
GROUND WATER

STATION NO. C40 EFFECTIVE DATE: 8/18/82

FIRST HALF		SECOND HALF	
CONC.	LLD.	CONC.	LLD.
-2.00	200.00	-2.00	200.00

TRITIUM ANALYSIS (pCi/kg)
RIVER WATER

STATION NO. C15 EFFECTIVE DATE: 11/16/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	200.00	-2.00	200.00
3RD QUARTER		4TH QUARTER	
CONC.	LLD.	CONC.	LLD.
-2.00	200.00	-2.00	200.00

GROUND WATER PATHWAY

The State has the responsibility to collect and analyze ground water samples. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. All operational samples had no detectable activity (except for naturally occurring isotopes) and there are no preoperational data.

Semiannual Tritium Analysis

There are no critical stations in this pathway. All operational samples had no detectable activity and there are no preoperational data.

GAMMA ANALYSIS (PCi/kg) 1st
GROUND WATER
STATION C07 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	25.40
2	BA-140	ND	8.25
3	FE-59	ND	3.61
4	TH-232	20.80	5.10
5	I-131	ND	2.54
6	RA-226	45.20	4.88
7	CR-51	ND	19.50
8	RU-103	ND	2.05
9	CS-134	ND	2.74
10	RU-106	ND	18.50
11	CS-137	ND	2.43
12	ZR-95	ND	4.09
13	CO-58	ND	2.05
14	MN-54	ND	2.17
15	ZN-65	ND	4.65
16	CO-60	ND	2.40
17	K-40	50.50	17.50

GAMMA ANALYSIS (PCi/kg) 2nd
GROUND WATER
STATION C07 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	20.40
2	BA-140	ND	6.18
3	FE-59	ND	2.69
4	TH-232	ND	5.25
5	I-131	ND	1.74
6	RA-226	133.00	8.93
7	CR-51	ND	15.31
8	RU-103	1185.03	1.64
9	CS-134	ND	1.97
10	RU-106	ND	15.84
11	CS-137	25.58	3.67
12	ZR-95	8.80	2.79
13	CO-58	ND	1.53
14	MN-54	ND	1.71
15	ZN-65	ND	3.86
16	CO-60	ND	1.57
17	K-40	140.90	36.28

GAMMA ANALYSIS (PCi/kg) 1st
GROUND WATER
STATION C10 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	54.00
2	BA-140	ND	17.10
3	FE-59	ND	7.48
4	TH-232	39.10	11.60
5	I-131	ND	4.76
6	RA-226	131.00	9.79
7	CR-51	ND	40.20
8	RU-103	ND	4.13
9	CS-134	7.29	4.41
10	RU-106	ND	36.20
11	CS-137	ND	5.23
12	ZR-95	ND	7.34
13	CO-58	ND	4.10
14	MN-54	ND	4.88
15	ZN-65	ND	9.82
16	CO-60	ND	4.28
17	K-40	103.00	46.60

GAMMA ANALYSIS (PCi/kg) 2nd
GROUND WATER
STATION C10 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	17.10
2	BA-140	ND	5.39
3	FE-59	ND	2.40
4	TH-232	ND	4.59
5	I-131	ND	1.57
6	RA-226	81.03	7.97
7	CR-51	ND	13.56
8	RU-103	717.13	1.43
9	CS-134	ND	1.77
10	RU-106	ND	13.08
11	CS-137	ND	1.76
12	ZR-95	ND	2.58
13	CO-58	ND	1.22
14	MN-54	ND	1.36
15	ZN-65	ND	2.65
16	CO-60	ND	1.32
17	K-40	57.48	25.14

GAMMA ANALYSIS (PCI/KG) 1ST
GROUND WATER
STATION C40 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

GAMMA ANALYSIS (PCI/KG) 2nd
GROUND WATER
STATION C40 EFFECTIVE DATE: 2/ 8/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	17.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	17.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	17.00
10	RU-106	0.00	0.00
11	CS-137	ND	17.00
12	ZR-95	0.00	0.00
13	CO-58	ND	17.00
14	MN-54	ND	15.00
15	ZN-65	ND	30.00
16	CO-60	ND	17.00
17	K-40	0.00	0.00

TRITIUM ANALYSIS (PCi /l)
GROUND WATER

STATION NO. C40 EFFECTIVE DATE: 8/18/82

FIRST HALF		SECOND HALF	
CONC.	LLD.	CONC.	LLD.
-2.00	200.00	-2.00	200.00

POTABLE WATER PATHWAY

The University has the responsibility to collect and analyze potable water samples. There are no additional stations for this pathway.

Quarterly Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. The 1982 operational activity was generally less than the preoperational activity levels and consistent with previous operational years' activities.

Quarterly Tritium Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. All sample activities were less than the sample LLD or non-detectable.

POTABLE WATER
STATION C07 EFFECTIVE DATE: 10/14/82

1st QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	73.50
2	BA-140	ND	23.20
3	FE-59	ND	14.10
4	TH-232	ND	14.90
5	I-131	ND	6.01
6	RA-226	40.80	15.70
7	CR-51	ND	52.40
8	RU-103	ND	6.15
9	CS-134	ND	8.76
10	RU-106	ND	59.80
11	CS-137	6.44	4.32
12	ZR-95	ND	12.90
13	CO-58	ND	6.71
14	MN-54	ND	6.86
15	ZN-65	ND	15.60
16	CO-60	ND	6.66
17	K-40	ND	91.10

POTABLE WATER
STATION C07 EFFECTIVE DATE: 10/14/82

2nd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	47.50
2	BA-140	ND	18.40
3	FE-59	ND	8.82
4	TH-232	12.50	9.07
5	I-131	ND	5.32
6	RA-226	23.50	9.94
7	CR-51	35.60	32.80
8	RU-103	4.81	3.40
9	CS-134	ND	5.04
10	RU-106	ND	39.60
11	CS-137	ND	5.18
12	ZR-95	ND	7.52
13	CO-58	ND	4.76
14	MN-54	ND	4.26
15	ZN-65	ND	10.10
16	CO-60	6.16	3.24
17	K-40	ND	70.40

POTABLE WATER
STATION C07 EFFECTIVE DATE: 10/14/82

3rd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	34.79
2	BA-140	ND	14.34
3	FE-59	<LLD	7.69
4	TH-232	ND	8.87
5	I-131	ND	4.65
6	RA-226	<LLD	12.90
7	CR-51	ND	31.24
8	RU-103	214.35	3.87
9	CS-134	ND	3.85
10	RU-106	ND	38.56
11	CS-137	<LLD	5.14
12	ZR-95	ND	4.09
13	CO-58	<LLD	2.68
14	MN-54	ND	3.45
15	ZN-65	ND	5.45
16	CO-60	ND	5.00
17	K-40	<LLD	51.57

TO MAKE CHANGES. TYPE "EDIT"... OTHERWISE PRESS <CR>

GAMMA ANALYSIS (pCi/kg)
POTABLE WATER
STATION C07 EFFECTIVE DATE: 10/14/82

4th QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	678.00
2	BA-140	ND	13.69
3	FE-59	ND	8.72
4	TH-232	36.30	14.80
5	I-131	ND	7.22
6	RA-226	103.00	13.80
7	CR-51	ND	64.00
8	RU-103	ND	6.92
9	CS-134	ND	5.51
10	RU-106	ND	55.00
11	CS-137	ND	7.67
12	ZR-95	ND	7.55
13	CO-58	ND	4.97
14	MN-54	ND	5.30
15	ZN-65	ND	8.48
16	CO-60	ND	6.21

TO MAKE CHANGES. TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER

STATION C10 EFFECTIVE DATE: 10/14/82

1st QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	86.50
2	BA-140	ND	27.60
3	FE-59	ND	14.70
4	TH-232	ND	17.90
5	I-131	ND	8.34
6	RA-226	235.00	18.20
7	CR-51	ND	67.60
8	RU-103	ND	6.85
9	CS-134	ND	9.95
10	RU-106	ND	69.60
11	CS-137	ND	9.37
12	ZR-95	ND	11.90
13	CO-58	ND	8.43
14	MN-54	ND	7.58
15	ZN-65	ND	20.20
16	CO-60	ND	8.73
17	K-40	ND	99.60

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER

STATION C10 EFFECTIVE DATE: 10/14/82

2nd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	58.10
2	BA-140	ND	20.60
3	FE-59	ND	7.52
4	TH-232	ND	12.40
5	I-131	ND	6.13
6	RA-226	192.00	11.20
7	CR-51	ND	44.40
8	RU-103	ND	5.01
9	CS-134	ND	6.46
10	RU-106	ND	47.50
11	CS-137	ND	5.73
12	ZR-95	ND	10.30
13	CO-58	ND	5.54
14	MN-54	ND	5.56
15	ZN-65	ND	12.80
16	CO-60	ND	6.06
17	K-40	ND	72.30

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR> P

POTABLE WATER

STATION C10 EFFECTIVE DATE: 10/14/82

3rd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	49.60
2	BA-140	ND	20.56
3	FE-59	<LLD	9.89
4	TH-232	ND	11.55
5	I-131	7.29	5.99
6	RA-226	181.96	36.85
7	CR-51	ND	45.94
8	RU-103	1502.10	4.45
9	CS-134	13.60	6.34
10	RU-106	ND	36.28
11	CS-137	ND	6.68
12	ZR-95	ND	7.44
13	CO-58	ND	4.95
14	MN-54	ND	5.30
15	ZN-65	ND	12.60
16	CO-60	ND	7.08
17	K-40	ND	62.51

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER

STATION C10 EFFECTIVE DATE: 10/14/82

4th QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	650.00
2	BA-140	ND	13.00
3	FE-59	ND	10.70
4	TH-232	ND	13.60
5	I-131	ND	7.09
6	RA-226	246.00	13.89
7	CR-51	ND	58.80
8	RU-103	ND	5.80
9	CS-134	ND	5.88
10	RU-106	ND	48.60
11	CS-137	ND	6.95
12	ZR-95	ND	8.09
13	CO-58	ND	5.55
14	MN-54	ND	6.00
15	ZN-65	ND	13.10
16	CO-60	ND	6.05
17	K-40	87.10	58.10

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER
STATION C18 EFFECTIVE DATE: 10/14/82

1st QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	44.60
2	BA-140	ND	15.70
3	FE-59	ND	8.12
4	TH-232	ND	9.62
5	I-131	ND	4.20
6	RA-226	140.00	9.38
7	CR-51	ND	35.30
8	RU-103	ND	3.86
9	CS-134	ND	5.08
10	RU-106	ND	35.40
11	CS-137	ND	4.87
12	ZR-95	ND	7.20
13	CO-58	ND	3.83
14	MN-54	ND	3.88
15	ZN-65	ND	9.20
16	CO-60	ND	4.10
17	K-40	77.00	36.40

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER
STATION C18 EFFECTIVE DATE: 10/14/82

2nd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	60.60
2	BA-140	ND	20.90
3	FE-59	ND	10.40
4	TH-232	ND	13.20
5	I-131	ND	6.21
6	RA-226	186.00	13.40
7	CR-51	ND	49.90
8	RU-103	ND	5.13
9	CS-134	ND	7.01
10	RU-106	ND	49.30
11	CS-137	ND	6.54
12	ZR-95	ND	9.69
13	CO-58	ND	5.65
14	MN-54	ND	5.36
15	ZN-65	ND	13.70
16	CO-60	ND	5.82
17	K-40	115.00	57.30

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER
STATION C18 EFFECTIVE DATE: 10/14/82

3rd QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	34.72
2	BA-140	ND	17.50
3	FE-59	ND	8.84
4	TH-232	ND	9.07
5	I-131	ND	4.33
6	RA-226	23.30	17.04
7	CR-51	ND	36.44
8	RU-103	312.03	4.53
9	CS-134	<LLD	5.41
10	RU-106	ND	43.16
11	CS-137	ND	4.20
12	ZR-95	ND	8.40
13	CO-58	ND	3.70
14	MN-54	<LLD	3.96
15	ZN-65	ND	9.69
16	CO-60	ND	4.06
17	K-40	ND	39.48

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

POTABLE WATER
STATION C18 EFFECTIVE DATE: 10/14/82

4th QTR

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	408.00
2	BA-140	ND	8.02
3	FE-59	ND	6.97
4	TH-232	23.40	9.14
5	I-131	ND	4.11
6	RA-226	265.00	9.43
7	CR-51	ND	37.60
8	RU-103	ND	3.92
9	CS-134	ND	4.11
10	RU-106	ND	34.20
11	CS-137	ND	4.32
12	ZR-95	ND	5.28
13	CO-58	ND	3.49
14	MN-54	ND	3.41
15	ZN-65	ND	11.50
16	CO-60	ND	3.55
17	K-40	54.90	40.90

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

TRITIUM ANALYSIS (pCi/kg)
POTABLE WATER

STATION NO. C07 EFFECTIVE DATE: 10/14/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	1005.00	-3.00	567.00
3RD QUARTER		**4TH QUARTER**	
CONC.	LLD.	CONC.	LLD.
-3.00	307.00	-3.00	381.00

TRITIUM ANALYSIS (pCi/kg)
POTABLE WATER

STATION NO. C10 EFFECTIVE DATE: 10/14/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	1005.00	-3.00	567.00
3RD QUARTER		**4TH QUARTER**	
CONC.	LLD.	CONC.	LLD.
-3.00	307.00	-3.00	381.00

TRITIUM ANALYSIS (pCi/kg)
POTABLE WATER

STATION NO. C18 EFFECTIVE DATE: 10/14/82

1ST QUARTER		2ND QUARTER	
CONC.	LLD.	CONC.	LLD.
-3.00	1005.00	-2.00	567.00
3RD QUARTER		**4TH QUARTER**	
CONC.	LLD.	CONC.	LLD.
-3.00	307.00	-3.00	381.00

SHORELINE EXTERNAL SEDIMENT PATHWAY

The University has the responsibility to collect and analyze shoreline external sediment samples. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. The critical stations for this analysis are Sample Stations C14H, C14M, and C14G. No sample had activity greater than 10 times the control station value.

The 1982 operational data showed nuclide concentrations generally lower than the preoperational data and consistent previous years' operational data.

Semiannual Sr-90 Analysis

All samples were collected and analyzed. The critical stations are Sample Stations C14H, C14M, and C14G. No sample had activity greater than 10 times the control station value.

There are no preoperational data and the 1982 data showed no significant change in Sr-90 concentration, in this pathway, over previous years' concentrations.

BOTTOM SEDIMENT

STATION C01 EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	25.40
2	BA-140	ND	8.25
3	FE-59	ND	3.61
4	TH-232	20.80	5.10
5	I-131	ND	2.54
6	RA-226	45.20	4.88
7	CR-51	ND	19.50
8	RU-103	ND	2.05
9	CS-134	ND	2.74
10	RU-106	ND	18.50
11	CS-137	ND	2.43
12	ZR-95	ND	4.09
13	CO-58	ND	2.05
14	MN-54	ND	2.17
15	ZN-65	ND	4.65
16	CO-60	ND	2.40
17	K-40	50.50	17.50

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

BOTTOM SEDIMENT

STATION C01 EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	20.40
2	BA-140	ND	6.18
3	FE-59	ND	2.69
4	TH-232	ND	5.25
5	I-131	ND	1.74
6	RA-226	133.00	9.93
7	CR-51	ND	15.31
8	RU-103	1195.03	1.64
9	CS-134	ND	1.97
10	RU-106	ND	15.84
11	CS-137	25.58	3.67
12	ZR-95	8.89	2.79
13	CO-58	ND	1.53
14	MN-54	ND	1.71
15	ZN-65	ND	3.86
16	CO-60	ND	1.57
17	K-40	140.90	36.28

TO MAKE CHANGES, TYPE "EDIT"... OTHERWISE PRESS <CR>

BOTTOM SEDIMENT

STATION C09 EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	54.00
2	BA-140	ND	17.10
3	FE-59	ND	7.46
4	TH-232	39.10	11.60
5	I-131	ND	4.76
6	RA-226	131.00	9.79
7	CR-51	ND	40.20
8	RU-103	ND	4.13
9	CS-134	7.29	4.41
10	RU-106	ND	30.20
11	CS-137	ND	5.23
12	ZR-95	ND	7.34
13	CO-58	ND	4.10
14	MN-54	ND	4.88
15	ZN-65	ND	9.82
16	CO-60	ND	4.28
17	K-40	103.00	46.60

TO MAKE CHANGES. TYPE "EDIT"... OTHERWISE PRESS <CR>

BOTTOM SEDIMENT

STATION C09 EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	17.10
2	BA-140	ND	5.39
3	FE-59	ND	2.40
4	TH-232	ND	4.59
5	I-131	ND	1.57
6	RA-226	81.03	7.97
7	CR-51	ND	13.56
8	RU-103	717.13	1.43
9	CS-134	ND	1.77
10	RU-106	ND	13.08
11	CS-137	ND	1.76
12	ZR-95	ND	2.59
13	CO-58	ND	1.22
14	MN-54	ND	1.36
15	ZN-65	ND	2.65
16	CO-60	ND	1.32
17	K-40	67.48	25.14

TO MAKE CHANGES. TYPE "EDIT"... OTHERWISE PRESS <CR>

BOTTOM SEDIMENT
STATION C14H EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	59.40
2	BA-140	ND	10.70
3	FE-59	ND	8.67
4	TH-232	ND	14.10
5	I-131	ND	4.80
6	PA-226	723.00	11.20
7	CR-51	ND	41.50
8	RU-103	ND	4.36
9	CS-134	8.87	5.11
10	RU-106	ND	39.00
11	CS-137	ND	6.17
12	ZR-95	ND	8.64
13	CO-58	10.80	4.66
14	MN-54	ND	4.32
15	ZN-65	ND	11.40
16	CO-60	17.00	4.43
17	K-40	204.00	44.80

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

BOTTOM SEDIMENT
STATION C14H EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	70.31
2	BA-140	ND	22.15
3	FE-59	ND	9.13
4	TH-232	ND	17.12
5	I-131	ND	6.32
6	PA-226	1278.34	49.54
7	CR-51	ND	54.32
8	RU-103	NC/M	NC/M ← entry error ND
9	CS-134	10.62	6.93
10	RU-106	ND	49.99
11	CS-137	ND	8.12
12	ZR-95	ND	9.77
13	CO-58	ND	5.23
14	MN-54	ND	5.84
15	ZN-65	ND	12.43
16	CO-60	ND	5.19
17	K-40	364.68	82.12

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

Bottom Sediment

TATION C14M EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	70.10
2	BA-140	ND	21.00
3	FE-59	ND	9.31
4	TH-232	ND	15.20
5	I-131	ND	6.26
6	RA-226	337.00	13.80
7	CR-51	ND	50.90
8	RU-103	ND	5.17
9	CS-134	ND	6.78
10	RU-106	ND	46.30
11	CS-137	ND	7.40
12	ZR-95	ND	10.10
13	CO-58	ND	6.02
14	MN-54	ND	5.64
15	ZN-65	ND	13.80
16	CO-60	8.74	5.63
17	K-40	202.00	54.90

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT
:

STATION C14M EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	24.69
2	BA-140	ND	7.82
3	FE-59	ND	3.40
4	TH-232	ND	5.61
5	I-131	ND	2.23
6	RA-226	259.28	13.44
7	CR-51	ND	18.85
8	RU-103	2216.14	2.06
9	CS-134	ND	2.52
10	RU-106	ND	18.53
11	CS-137	9.88	2.77
12	ZR-95	ND	3.36
13	CO-58	ND	1.91
14	MN-54	4.09	2.15
15	ZN-65	ND	4.41
16	CO-60	8.89	2.96
17	K-40	172.26	36.62

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT
:

Bottom Sediment

STATION C14C EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	73.10
2	BA-140	ND	21.90
3	FE-59	ND	12.00
4	TH-232	ND	16.90
5	I-131	ND	6.57
6	RA-226	579.00	13.90
7	CR-51	ND	53.60
8	RU-103	ND	5.53
9	CS-134	7.82	6.38
10	RU-106	ND	46.70
11	CS-137	ND	7.43
12	ZR-95	ND	10.70
13	CO-58	ND	7.04
14	MN-54	ND	6.52
15	ZN-65	ND	14.40
16	CO-60	12.20	6.02
17	K-40	194.00	68.90

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT
:

STATION C14C EFFECTIVE DATE: 8/27/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	46.85
2	BA-140	ND	15.25
3	FE-59	ND	6.82
4	TH-232	ND	10.64
5	I-131	ND	4.20
6	RA-226	413.21	27.67
7	CR-51	ND	35.65
8	RU-103	3644.65	3.87
9	CS-134	ND	4.30
10	RU-106	ND	32.03
11	CS-137	ND	4.64
12	ZR-95	ND	6.84
13	CO-58	ND	3.66
14	MN-54	ND	3.87
15	ZN-65	ND	9.39
16	CO-60	ND	3.65
17	K-40	179.60	64.09

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT
.

Sr 89/90 ANALYSIS (pCi/kg)
BOTTOM SEDIMENT

STATION NO. C01 EFFECTIVE DATE: 8/27/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.39000E+02	0.11000E+02	-0.30000E+01	0.34600E+01

Sr 89/90 ANALYSIS (pCi/kg)
BOTTOM SEDIMENT

STATION NO. C09 EFFECTIVE DATE: 8/27/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.30000E+02	0.83000E+01	0.10500E+02	0.50500E+01

Sr 89/90 ANALYSIS (pCi/kg)
BOTTOM SEDIMENT

STATION NO. C14H EFFECTIVE DATE: 8/27/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.28000E+00	0.26000E+00	0.14000E+01	0.36900E+00

Sr 89/90 ANALYSIS (pCi/kg)
BOTTOM SEDIMENT

STATION NO. C14M EFFECTIVE DATE: 8/27/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.14000E+01	0.25000E+00	0.43300E+02	0.23900E+02

Sr 89/90 ANALYSIS (pCi/kg)
BOTTOM SEDIMENT

STATION NO. C14G EFFECTIVE DATE: 8/27/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	-0.30000E+01	0.50000E+00	-0.30000E+01	0.27900E+02

SEAFOOD CHAIN PATHWAY (MARINE PLANTS)

The University has the responsibility to collect and analyze marine plants in the seafood chain. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

The 1982 operational concentrations are generally less than the preoperational concentrations and are consistent with previous operational years' concentrations.

Semiannual Sr-89 and 90 Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. There are no preoperational data.

MARINE PLANTS
STATION C29 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	42.10
2	BA-140	ND	15.50
3	FE-59	ND	12.30
4	TH-232	28.10	8.33
5	I-131	ND	4.19
6	RA-226	57.50	8.70
7	CR-51	ND	34.10
8	RU-103	4.10	3.30
9	CS-134	ND	6.10
10	RU-106	ND	41.70
11	CS-137	6.21	4.95
12	ZR-95	ND	8.30
13	CO-58	11.70	4.76
14	MN-54	ND	4.87
15	ZN-65	ND	14.60
16	CO-60	8.67	4.86
17	K-40	6460.00	74.80

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

MARINE PLANTS
STATION C29 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	47.70
2	BA-140	ND	23.50
3	FE-59	ND	12.20
4	TH-232	ND	14.63
5	I-131	ND	6.07
6	RA-226	89.37	20.78
7	CR-51	ND	47.08
8	RU-103	ND	6.12
9	CS-134	ND	7.98
10	RU-106	ND	59.42
11	CS-137	ND	8.94
12	ZR-95	33.09	10.91
13	CO-58	ND	7.05
14	MN-54	ND	6.81
15	ZN-65	ND	15.10
16	CO-60	25.61	11.02
17	K 40	2957.66	301.67

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

MARINE PLANTS

STATION C30 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	62.40
2	BA-140	25.70	21.70
3	FE-59	ND	17.60
4	TH-232	51.20	12.60
5	I-131	ND	6.29
6	PA-226	59.30	13.80
7	CR-51	ND	51.90
8	RU-103	ND	6.00
9	CS-134	ND	8.82
10	RU-106	ND	58.80
11	CS-137	13.80	7.20
12	ZR-95	ND	12.60
13	CO-58	ND	7.95
14	MN-54	ND	7.99
15	ZN-65	ND	20.50
16	CO-60	ND	8.75
17	K-40	7510.00	106.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

MARINE PLANTS

STATION C39 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	51.57
2	BA-140	ND	22.93
3	FE-59	ND	16.17
4	TH-232	ND	16.27
5	I-131	ND	6.20
6	PA-226	77.13	20.02
7	CR-51	ND	49.96
8	RU-103	594.14	6.17
9	CS-134	ND	9.03
10	RU-106	ND	62.37
11	CS-137	ND	8.65
12	ZR-95	ND	12.67
13	CO-58	ND	7.14
14	MN-54	ND	8.00
15	ZN-65	ND	19.38
16	CO-60	ND	8.46
17	K-40	7024.07	477.35

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

Sr 89/90 ANALYSIS (pCi/kg)
MARINE PLANTS

STATION NO. C29 EFFECTIVE DATE: 8/20/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
			1.87	0.184
SR-90	0.13000E+02	0.69000E+00	~~0.10000E+01~~	~~0.10000E+01~~
SR-89	-0.30000E+01	0.47000E+01	~~0.10000E+01~~	~~0.10000E+01~~
			-0.3000E+1	1.63

Sr 89/90 ANALYSIS (pCi/kg)
MARINE PLANTS

STATION NO. C30 EFFECTIVE DATE: 8/20/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.19500E+02	0.72700E+00	0.75300E+01	0.30500E+00
SR-89	-0.30000E+01	0.72200E+01	-0.30000E+01	0.78100E+01

INGESTION CRAB PATHWAY

The University has the responsibility to collect and analyze crabs. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. Sample Station C29 is the critical station in this pathway and no sample had activity greater than 10 times the control station value.

Except for naturally occurring K-40, the 1982 operational concentrations are less than the preoperational concentrations and consistent with previous years' operational concentrations.

CRABS

STATION C29 EFFECTIVE DATE: 9/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	42.60
2	BA-140	ND	10.10
3	FE-59	ND	9.53
4	TH-232	ND	8.91
5	I-131	ND	4.72
6	RA-226	34.80	9.35
7	CR-51	ND	35.60
8	RU-103	ND	3.78
9	CS-134	ND	5.02
10	RU-106	ND	38.20
11	CS-137	ND	5.23
12	ZR-95	ND	7.60
13	CO-58	ND	4.78
14	MN-54	ND	4.27
15	ZN-65	ND	10.50
16	CO-60	ND	4.67
17	K-40	1180.00	53.30

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CRABS

STATION C29 EFFECTIVE DATE: 9/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	43.00
2	BA-140	ND	21.51
3	FE-59	ND	10.72
4	TH-232	ND	10.30
5	I-131	<LLD	5.42
6	RA-226	129.60	21.55
7	CR-51	ND	44.87
8	RU-103	1403.13	5.51
9	CS-134	ND	6.73
10	RU-106	ND	55.47
11	CS-137	ND	7.07
12	ZR-95	ND	9.63
13	CO-58	ND	5.53
14	MN-54	ND	5.52
15	ZN-65	ND	13.20
16	CO-60	ND	6.53
17	K-40	1639.57	222.96

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CRABS

STATION C30 EFFECTIVE DATE: 9/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	70.80
2	BA-140	ND	25.10
3	FE-59	ND	14.60
4	TH-232	ND	14.30
5	I-131	ND	7.70
6	RA-226	119.00	14.80
7	CR-51	ND	58.40
8	RU-103	ND	6.11
9	CS-134	9.30	6.64
10	RU-106	ND	63.70
11	CS-137	ND	8.48
12	ZR-95	ND	12.50
13	CO-58	ND	7.07
14	MN-54	ND	6.60
15	ZN-65	ND	17.10
16	CO-60	ND	7.88
17	K-40	2240.00	92.60

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CRABS

STATION C30 EFFECTIVE DATE: 9/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	48.43
2	BA-140	ND	23.91
3	FE-59	ND	12.37
4	TH-232	ND	11.75
5	I-131	ND	6.08
6	RA-226	108.55	22.80
7	CR-51	ND	48.62
8	RU-103	1264.13	6.08
9	CS-134	ND	7.44
10	RU-106	ND	55.48
11	CS-137	ND	7.62
12	ZR-95	ND	11.14
13	CO-58	ND	6.39
14	MN-54	ND	6.13
15	ZN-65	ND	14.64
16	CO-60	ND	7.25
17	K-40	2060.86	279.14

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

INGESTION CARNIVOROUS FISH PATHWAY

The University has the responsibility to collect and analyze carnivorous fish. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. Sample Station C29 is the critical station in this pathway and no sample had activity greater than 10 times the control station value.

The operational concentrations for 1982 are generally less than the preoperational concentrations and consistent with previous years' operational concentrations.

CARNIVOROUS FISH

STATION C29 EFFECTIVE DATE: 8/29/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	66.40
2	BA-140	ND	27.50
3	FE-59	ND	17.20
4	TH-232	ND	14.50
5	I-131	ND	8.32
6	RA-226	72.60	14.90
7	CR-51	ND	58.50
8	RU-103	ND	6.40
9	CS-134	ND	8.73
10	RU-106	ND	58.00
11	CS-137	30.50	7.76
12	ZR-95	ND	12.30
13	CO-58	ND	7.39
14	MN-54	ND	7.56
15	ZN-65	ND	19.20
16	CO-60	ND	8.77
17	K-40	4280.00	102.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CARNIVOROUS FISH

STATION C29 EFFECTIVE DATE: 8/29/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	22.84
2	BA-140	ND	9.36
3	FE-59	ND	7.01
4	TH-232	ND	4.95
5	I-131	ND	2.63
6	RA-226	25.19	8.12
7	CR-51	ND	21.19
8	RU-103	ND	2.69
9	CS-134	ND	3.43
10	RU-106	ND	25.71
11	CS-137	30.16	6.58
12	ZR-95	ND	5.29
13	CO-58	ND	3.08
14	MN-54	ND	3.08
15	ZN-65	ND	8.15
16	CO-60	ND	3.07
17	K-40	2826.17	206.70

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CARNIVOROUS FISH

STATION C30 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	68.80
2	BA-140	ND	28.30
3	FE-59	ND	15.50
4	TH-232	ND	15.20
5	I-131	ND	8.45
6	RA-226	71.10	15.30
7	CR-51	ND	58.80
8	RU-103	ND	6.88
9	CS-134	ND	8.67
10	RU-106	ND	62.80
11	CS-137	126.00	7.88
12	ZR-95	ND	13.40
13	CO-58	ND	7.56
14	MN-54	ND	7.61
15	ZN-65	ND	20.30
16	CO-60	ND	8.08
17	K-40	4160.00	94.40

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

CARNIVOROUS FISH

STATION C30 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	31.96
2	BA-140	ND	19.95
3	FE-59	ND	14.01
4	TH-232	ND	8.93
5	I-131	ND	4.77
6	RA-226	19.72	13.08
7	CR-51	ND	37.46
8	RU-103	158.42	5.20
9	CS-134	ND	7.09
10	RU-106	ND	48.00
11	CS-137	16.63	9.11
12	ZR-95	ND	9.90
13	CO-58	ND	4.84
14	MN-54	ND	6.13
15	ZN-65	ND	16.38
16	CO-60	ND	6.32
17	K-40	3966.94	401.16

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

INGESTION HERBIVOROUS FISH PATHWAY

The University has the responsibility to collect and analyze herbivorous fish. There are no additional stations for this pathway.

Semiannual Gamma Analysis

No samples were caught during the second semiannual period at critical location C29 and Station C30. All other samples were collected and analyzed.

The 1982 operational concentrations are generally lower than preoperational concentrations and are consistent with previous years' operational concentrations.

HERBIVOROUS FISH

STATION C29 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	79.60
2	BA-140	ND	27.70
3	FE-59	ND	16.30
4	TH-232	ND	17.10
5	I-131	ND	7.48
6	RA-226	177.00	17.60
7	CR-51	ND	65.00
8	RU-103	ND	6.81
9	CS-134	ND	9.35
10	RU-106	ND	72.90
11	CS-137	ND	10.30
12	ZR-95	ND	13.70
13	CO-58	ND	7.83
14	MN-54	ND	7.94
15	ZN-65	ND	19.60
16	CO-60	ND	8.15
17	K-40	2410.00	110.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

HERBIVOROUS FISH

STATION C29 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	NC/M	NC/M
2	BA-140	NC/M	NC/M
3	FE-59	NC/M	NC/M
4	TH-232	NC/M	NC/M
5	I-131	NC/M	NC/M
6	RA-226	NC/M	NC/M
7	CR-51	NC/M	NC/M
8	RU-103	NC/M	NC/M
9	CS-134	NC/M	NC/M
10	RU-106	NC/M	NC/M
11	CS-137	NC/M	NC/M
12	ZR-95	NC/M	NC/M
13	CO-58	NC/M	NC/M
14	MN-54	NC/M	NC/M
15	ZN-65	NC/M	NC/M
16	CO-60	NC/M	NC/M
17	K-40	NC/M	NC/M

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

HERBIVOROUS FISH

STATION C30 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	78.60
2	BA-140	ND	27.00
3	FE-59	ND	16.00
4	TH-232	23.20	15.10
5	I-131	ND	7.62
6	RA-226	107.00	16.20
7	CR-51	ND	62.30
8	RU-103	ND	6.53
9	CS-134	8.85	7.81
10	RU-106	ND	65.60
11	CS-137	12.70	7.67
12	ZR-95	ND	13.00
13	CO-58	ND	6.99
14	MN-54	7.75	6.41
15	ZN-65	ND	17.60
16	CO-60	ND	7.90
17	K-40	3400.00	37.20

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

STATION C30 EFFECTIVE DATE: 8/20/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	NC/M	NC/M
2	BA-140	NC/M	NC/M
3	FE-59	NC/M	NC/M
4	TH-232	NC/M	NC/M
5	I-131	NC/M	NC/M
6	RA-226	NC/M	NC/M
7	CR-51	NC/M	NC/M
8	RU-103	NC/M	NC/M
9	CS-134	NC/M	NC/M
10	RU-106	NC/M	NC/M
11	CS-137	NC/M	NC/M
12	ZR-95	NC/M	NC/M
13	CO-58	NC/M	NC/M
14	MN-54	NC/M	NC/M
15	ZN-65	NC/M	NC/M
16	CO-60	NC/M	NC/M
17	K-40	NC/M	NC/M

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

INGESTION OYSTERS PATHWAY

The University has the responsibility to collect and analyze oysters. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

The 1982 operational concentrations are consistent with previous years' operational concentrations and generally lower than the preoperational concentrations.

OYSTERS

STATION C29 EFFECTIVE DATE: 9/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	65.60
2	BA-140	ND	27.20
3	FE-59	ND	14.50
4	TH-232	ND	14.40
5	I-131	ND	7.32
6	RA-226	107.00	15.40
7	CR-51	ND	55.50
8	RU-103	ND	6.67
9	CS-134	ND	8.33
10	RU-106	ND	68.50
11	CS-137	ND	9.12
12	ZR-95	ND	12.20
13	CO-58	10.20	6.17
14	MN-54	ND	6.38
15	ZN-65	ND	15.20
16	CO-60	ND	7.82
17	K-40	1370.00	75.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

OYSTERS

STATION C29 EFFECTIVE DATE: 9/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	59.97
2	BA-140	ND	37.43
3	FE-59		15.62
4	TH-232	ND	16.15
5	I-131	ND	9.08
6	RA-226	151.29	28.40
7	CR-51	ND	68.76
8	RU-103	1388.09	9.76
9	CS-134	ND	10.11
10	RU-106	ND	99.37
11	CS-137	ND	13.18
12	ZR-95	ND	15.86
13	CO-58	ND	9.48
14	MN-54	ND	8.76
15	ZN-65	ND	18.77
16	CO-60	ND	10.08
17	K-40	1321.50	221.32

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

OYSTERS
STATION C30 EFFECTIVE DATE: 9/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	75.50
2	BA-140	ND	28.10
3	FE-59	ND	14.60
4	TH-232	28.10	14.40
5	I-131	ND	7.83
6	RA-226	39.60	16.39
7	CR-51	ND	60.70
8	RU-103	ND	6.96
9	CS-134	ND	8.92
10	RU-106	ND	74.00
11	CS-137	ND	9.22
12	ZR-95	ND	13.10
13	CO-58	ND	7.64
14	MN-54	ND	7.09
15	ZN-65	ND	18.50
16	CO-60	ND	9.61
17	K-40	1160.00	91.20

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

OYSTERS
STATION C30 EFFECTIVE DATE: 9/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	41.91
2	BA-140	ND	20.41
3	FE-59	ND	10.55
4	TH-232	ND	10.73
5	I-131	ND	5.45
6	RA-226	79.41	18.11
7	CR-51	ND	42.73
8	RU-103	877.46	5.17
9	CS-134	ND	6.28
10	RU-106	ND	50.54
11	CS-137	7.39	6.59
12	ZR-95	ND	9.23
13	CO-58	ND	5.04
14	MN-54	ND	5.12
15	ZN-65	ND	12.79
16	CO-60	ND	6.33
17	K-40	1687.57	214.42

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

INGESTION SHRIMP PATHWAY

The University has the responsibility to collect and analyze shrimp. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

The 1982 operational concentrations are consistent with previous years' operational and preoperational concentrations.

The 1982 samples were collected in the vicinity of the Discharge Canal rather than the Ralston Purina facility. This is because the Ralston Purina facility is no longer operating. This collection method will replace Station C27 for this pathway.

SHRIMP

STATION C27 EFFECTIVE DATE: 6/12/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	65.58
2	BA-140	ND	30.87
	FE-59	ND	16.25
	TH-232	ND	15.78
5	I-131	ND	7.93
6	RA-226	111.52	29.61
7	CR-51	ND	67.92
8	RU-103	1021.85	8.09
9	CS-134	ND	9.36
10	RU-106	ND	81.73
11	CS-137	13.71	11.48
12	ZR-95	ND	14.68
13	CO-58	ND	8.17
14	MN-54	ND	8.48
15	ZN-65	ND	20.16
16	CO-60	<LLD	9.69
17	K-40	2252.13	339.03

SHRIMP

STATION C27 EFFECTIVE DATE: 6/12/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	88.80	78.20
2	BA-140	ND	28.80
3	FE-59	ND	18.10
4	TH-232	20.40	15.50
5	I-131	ND	8.47
6	RA-226	50.40	17.10
7	CR-51	ND	66.10
8	RU-103	ND	6.70
9	CS-134	ND	10.60
10	RU-106	ND	72.10
11	CS-137	14.50	8.27
12	ZR-95	ND	14.90
13	CO-58	ND	8.07
14	MN-54	ND	9.20
	ZN-65	ND	21.40
	CO-60	ND	10.10
17	K-40	3400.00	109.00

INGESTION MILK PATHWAY

The University has the responsibility to collect and analyze milk. There are no additional stations for this pathway.

Monthly Gamma Analysis

The samples at Sample Station C49, the critical station for this pathway, were not collected due to the unavailability of milk. All other samples were collected and analyzed.

The 1982 operational concentrations are consistent with previous years' operational, and lower than the preoperational, concentrations.

Monthly Sr-89 and 90 Analysis

All samples were collected and analyzed. Sample Station C49 is the critical station for this pathway and no samples were collected due to the unavailability of milk.

The 1982 operational concentrations are less than the preoperational values and are consistent with other operational concentrations.

MILK Jan

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	72.80
2	BA-140	ND	26.40
3	FE-59	ND	16.90
4	TH-232	ND	16.40
5	I-131	ND	7.43
6	RA-226	58.79	15.39
7	CR-51	ND	63.70
8	RU-103	ND	7.50
9	CS-134	ND	9.76
10	RU-106	ND	68.00
11	CS-137	9.56	8.33
12	ZR-95	ND	13.70
13	CO-58	ND	7.51
14	MN-54	ND	8.87
15	ZN-65	ND	20.60
16	CO-60	ND	10.70
17	K-40	1420.00	54.40

MILK Feb

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	74.40
2	BA-140	ND	23.10
3	FE-59	ND	14.40
4	TH-232	ND	16.50
5	I-131	ND	7.38
6	RA-226	46.19	14.20
7	CR-51	ND	63.40
8	RU-103	ND	7.28
9	CS-134	ND	8.58
10	RU-106	ND	69.90
11	CS-137	11.40	6.85
12	ZR-95	ND	12.60
13	CO-58	ND	7.69
14	MN-54	ND	8.52
15	ZN-65	ND	16.50
16	CO-60	ND	9.00
17	K-40	1590.00	90.40

MILK March

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	69.70
2	BA-140	ND	22.60
3	FE-59	ND	17.20
4	TH-232	ND	15.30
5	I-131	ND	7.01
6	RA-226	36.80	15.10
7	CR-51	ND	53.20
8	RU-103	ND	5.78
9	CS-134	ND	6.99
10	RU-106	ND	61.40
11	CS-137	ND	0.68
12	ZR-95	10.20	7.41
13	CO-58	ND	7.41
14	MN-54	ND	6.41
15	ZN-65	ND	18.60
16	CO-60	7.62	5.27
17	K-40	1430.00	106.00

MILK April

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	75.50
2	BA-140	ND	25.70
3	FE-59	ND	13.70
4	TH-232	ND	15.10
5	I-131	ND	6.81
6	RA-226	67.30	15.20
7	CR-51	ND	58.30
8	RU-103	7.93	4.91
9	CS-134	ND	9.16
10	RU-106	ND	57.40
11	CS-137	16.20	6.23
12	ZR-95	ND	11.40
13	CO-58	ND	6.97
14	MN-54	ND	7.20
15	ZN-65	ND	17.30
16	CO-60	ND	9.34
17	K-40	1190.00	85.50

MILK May

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	44.57
2	BA-140	ND	19.45
3	FE-59	ND	13.18
4	TH-232	ND	8.77
5	I-131	ND	4.53
6	RA-226	ND	11.16
7	CR-51	ND	39.25
8	RU-103	ND	4.42
9	CS-134	ND	5.95
10	RU-106	ND	42.15
11	CS-137	ND	7.54
12	ZR-95	ND	8.53
13	CO-58	ND	5.82
14	MN-54	ND	4.82
15	ZN-65	ND	14.36
16	CO-60	8.13	5.94
17	K-40	1297.77	303.19

MILK June

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	20.36
2	BA-140	ND	9.39
3	FE-59	ND	6.19
4	TH-232	ND	4.72
5	I-131	ND	2.64
6	RA-226	16.18	6.71
7	CR-51	ND	19.84
8	RU-103	111.82	2.63
9	CS-134	ND	3.05
10	RU-106	ND	24.96
11	CS-137	7.80	4.22
12	ZR-95	ND	4.84
13	CO-58	ND	2.65
14	MN-54	ND	2.74
15	ZN-65	ND	7.19
16	CO-60	ND	3.27
17	K-40	1495.07	163.45

MILK July

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	32.48
2	BA-140	ND	15.03
3	FE-59	ND	11.99
4	TH-232	ND	6.73
5	I-131	ND	3.46
6	RA-226	<LLD	10.90
7	CR-51	ND	33.26
8	RU-103	ND	3.47
9	CS-134	ND	5.80
10	RU-106	ND	45.00
11	CS-137	<LLD	6.64
12	ZR-95	ND	6.43
13	CO-58	ND	4.15
14	MN-54	ND	3.83
15	ZN-65	ND	14.33
16	CO-60	11.91	5.97
17	K-40	1275.97	266.70

MILK Aug

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	27.07
2	BA-140	119.24	11.36
3	FE-59	11.75	6.96
4	TH-232	ND	6.40
5	I-131	17.42	3.31
6	RA-226	49.04	8.44
7	CR-51	ND	28.02
8	RU-103	ND	2.98
9	CS-134	ND	4.13
10	RU-106	ND	28.48
11	CS-137	<LLD	4.39
12	ZR-95	ND	5.88
13	CO-58	ND	2.51
14	MN-54	ND	3.29
15	ZN-65	ND	9.29
16	CO-60	ND	3.59
17	K-40	1066.61	202.63

MILK Sept.

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	38.73
2	BA-140	ND	14.63
3	FE-59	ND	7.96
4	TH-232	ND	7.80
5	I-131	ND	6.84
6	RA-226	32.80	12.23
7	CR-51	ND	33.82
8	RU-103	424.00	3.78
9	CS-134	ND	4.70
10	RU-106	ND	35.57
11	CS-137	6.40	5.41
12	ZR-95	ND	6.90
13	CO-58	ND	4.00
14	MN-54	ND	3.84
15	ZN-65	ND	8.73
16	CO-60	ND	4.00
17	K-40	1418.60	185.02

MILK Oct.

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	286.00
2	BA-140	ND	5.49
3	FE-59	ND	5.37
4	TH-232	15.20	5.88
5	I-131	ND	2.90
6	RA-226	27.50	5.13
7	CR-51	ND	27.10
8	RU-103	ND	2.73
9	CS-134	ND	2.53
10	RU-106	ND	23.60
11	CS-137	5.65	3.03
12	ZR-95	ND	2.73
13	CO-58	ND	2.41
14	MN-54	ND	2.56
15	ZN-65	ND	6.64
16	CO-60	ND	2.86
17	K-40	ND	138.00

MILK Nov

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	265.00
2	BA-140	ND	5.85
3	FE-59	ND	5.21
4	TH-232	14.00	5.30
5	I-131	ND	3.34
6	RA-226	20.70	4.87
7	CR-51	ND	24.50
8	RU-103	ND	2.59
9	CS-134	ND	2.41
10	RU-106	ND	22.40
11	CS-137	9.65	2.52
12	ZR-95	ND	2.54
13	CO-58	ND	2.32
14	MN-54	ND	2.59
15	ZN-65	ND	5.98
16	CO-60	ND	2.82
17	K-40	1170.00	34.50

MILK Dec

STATION C47 EFFECTIVE DATE: 12/ 7/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	20.63
2	BA-140	ND	9.55
3	FE-59	ND	6.48
4	TH-232	ND	5.87
5	I-131	ND	2.55
6	RA-226	9.37	7.21
7	CR-51	ND	20.52
8	RU-103	187.48	2.72
9	CS-134	ND	3.14
10	RU-106	ND	23.03
11	CS-137	4.43	3.81
12	ZR-95	ND	4.87
13	CO-58	ND	2.55
14	MN-54	ND	2.77
15	ZN-65	ND	7.28
16	CO-60	ND	2.58
17	K-40	1261.99	166.24

Sr 89/90 ANALYSIS (pCi/kg)
MILK

STATION NO. C47 EFFECTIVE DATE: 10/ 4/82

	STRONTIUM-90		STRONTIUM-89	
	CONC	LLD.	CONC	LLD.
JAN	0.46000E+01	0.52000E+00	-0.30000E+01	0.43000E+01
FEB	0.26000E+01	0.42000E+00	0.45000E+01	0.26000E+01
MAR	0.35000E+01	0.42000E+00	-0.30000E+01	0.21000E+01
APR	0.15000E+01	0.24000E+00	-0.30000E+01	0.30000E+01
MAY	-0.30000E+01	0.34000E+00	0.14000E+02	0.32000E+01
JUN	0.15300E+01	0.47000E+00	0.87800E+01	0.65500E+01
JUL	0.48900E+01	0.43500E+00	-0.30000E+01	0.42100E+01
AUG	0.34400E+01	0.41100E+00	-0.30000E+01	0.37000E+01
SEP	0.33700E+01	0.36300E+00	-0.30000E+01	0.21000E+01
OCT	0.54100E+01	0.70500E+00	-0.30000E+01	0.95500E+01
NOV	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
DEC	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

Sr 89/90 ANALYSIS (pCi/kg)
MILK

STATION NO. C49 EFFECTIVE DATE: 10/ 4/82

	STRONTIUM-90		STRONTIUM-89	
	CONC	LLD.	CONC	LLD.
JAN	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
FEB	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
MAR	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
APR	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
MAY	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
JUN	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
JUL	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
AUG	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
SEP	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
OCT	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
NOV	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
DEC	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

INGESTION ANIMAL PATHWAY

The University has the responsibility to collect and analyze small terrestrial animals. There are no additional stations for this pathway.

Semiannual Gamma Analysis

Samples for the first half of 1982 could not be obtained. There are no critical stations in this pathway.

The operational concentrations for 1982 are consistent with preoperational and previous operational years' concentrations.

Small Animals

GAMMA ANALYSIS (pCi/m3)
STATION C45 EFFECTIVE DATE: 9/24/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	NC/M	NC/M
2	BA-140	NC/M	NC/M
3	FE-59	NC/M	NC/M
4	TH-232	NC/M	NC/M
5	I-131	NC/M	NC/M
6	RA-226	NC/M	NC/M
7	CR-51	NC/M	NC/M
8	RU-103	NC/M	NC/M
9	CS-134	NC/M	NC/M
10	RU-106	NC/M	NC/M
11	CS-137	NC/M	NC/M
12	ZR-95	NC/M	NC/M
13	CO-58	NC/M	NC/M
14	MN-54	NC/M	NC/M
15	ZN-65	NC/M	NC/M
16	CO-60	NC/M	NC/M
17	K-40	NC/M	NC/M

GAMMA ANALYSIS (pCi/m3)
STATION C45 EFFECTIVE DATE: 9/24/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	67.46
2	BA-140	ND	32.88
3	FE-59	ND	17.94
4	TH-232	ND	17.29
5	I-131	ND	9.01
6	RA-226	179.74	29.65
7	CR-51	ND	73.07
8	RU-103	ND	8.93
9	CS-134	ND	10.29
10	RU-106	ND	83.72
11	CS-137	45.49	13.42
12	ZR-95	ND	15.30
13	CO-58	ND	8.59
14	MN-54	ND	8.54
15	ZN-65	ND	19.51
16	CO-60	ND	10.26
17	K-40	3321.19	314.23

FOOD CHAIN (GRASSES) PATHWAY

The University has the responsibility to collect and analyze grass samples. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway.

The 1982 operational concentrations are similar to previous operational and preoperational concentrations except for Ru-103, Cs-137, Th-232, and Ra-226. No operational events or effluent releases could be linked with these elevated data.

VEGETATION

STATION C05 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	79.11
2	BA-140	ND	34.94
3	FE-59	ND	17.05
4	TH-232	ND	27.02
5	I-131	ND	10.18
6	RA-226	32.04	28.50
7	CR-51	ND	85.17
8	RU-103	342.49	8.89
9	CS-134	ND	9.70
10	RU-106	ND	87.26
11	CS-137	ND	45.99
12	ZR-95	ND	14.88
13	CO-58	ND	8.44
14	MN-54	ND	8.97
15	ZN-65	ND	19.71
16	CO-60	ND	8.96
17	K-40	2110.31	366.72

VEGETATION

STATION C05 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	558.00
2	BA-140	ND	16.50
3	FE-59	ND	10.30
4	TH-232	31.40	13.00
5	I-131	ND	9.73
6	RA-226	55.60	11.40
7	CR-51	ND	63.60
8	RU-103	ND	6.81
9	CS-134	ND	5.24
10	RU-106	ND	51.00
11	CS-137	1060.00	7.82
12	ZR-95	ND	5.06
13	CO-58	ND	4.61
14	MN-54	ND	4.58
15	ZN-65	ND	10.70
16	CO-60	ND	4.75
17	K-40	1300.00	52.70

VEGETATION

STATION C40 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	99.30
2	BA-140	ND	29.73
3	FE-59	ND	15.04
4	TH-232	ND	29.90
5	I-131	ND	9.42
6	RA-226	131.31	28.29
7	CR-51	ND	79.47
8	RU-103	1633.52	8.35
9	CS-134	ND	9.30
10	RU-106	ND	75.93
11	CS-137	494.80	35.02
12	ZR-95	ND	15.10
13	CO-58	ND	7.97
14	MN-54	14.13	8.09
15	ZN-65	ND	19.16
16	CO-60	ND	8.77
17	K-40	1056.24	212.42

VEGETATION

STATION C40 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	600.00
2	BA-140	ND	15.40
3	FE-59	ND	10.20
	TH-232	65.20	15.30
5	I-131	ND	9.24
6	RA-226	109.00	14.70
7	CR-51	ND	64.10
8	RU-103	ND	6.75
9	CS-134	ND	6.10
10	RU-106	ND	54.90
11	CS-137	387.00	7.66
12	ZR-95	ND	6.07
13	CO-58	ND	5.31
14	MN-54	ND	5.51
15	ZN-65	ND	11.00
16	CO-60	ND	5.46
17	K-40	1100.00	74.60

VEGETATION
STATION C41 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	62.92	57.04
2	BA-140	ND	21.71
3	FE-59	ND	12.21
4	TH-232	ND	14.14
5	I-131	ND	6.65
6	RA-226	51.96	20.22
7	CR-51	ND	58.75
8	RU-103	735.65	6.00
9	CS-134	ND	7.66
10	RU-106	ND	57.41
11	CS-137	28.23	11.03
12	ZR-95	ND	10.61
13	CO-58	ND	5.87
14	MN-54	ND	6.32
15	ZN-65	ND	14.85
16	CO-60	ND	7.38
17	K-40	2066.79	287.78

VEGETATION
STATION C41 EFFECTIVE DATE: 10/14/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	694.00
2	BA-140	ND	15.50
3	FE-59	ND	13.10
4	TH-232	47.20	17.40
5	I-131	ND	8.92
6	RA-226	140.00	16.30
7	CR-51	ND	70.60
8	RU-103	ND	7.23
9	CS-134	ND	6.66
10	RU-106	ND	64.30
11	CS-137	16.10	7.07
12	ZR-95	ND	7.23
13	CO-58	ND	6.36
14	MN-54	ND	6.59
15	ZN-65	ND	1.69
16	CO-60	ND	7.38
17	K-40	1520.00	94.50

INGESTION FOOD CROPS (CITRUS) PATHWAY

The State has the responsibility to collect and analyze citrus samples. There are no additional stations in this pathway.

Annual Gamma Analysis

There are no critical stations in this pathway. The citrus sample was not entered in this data set. The C19 data will be included in the supplemental report.

GAMMA ANALYSIS (PCi/kg)

CITRUS

STATION C19 EFFECTIVE DATE: 1/ 4/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	<LLD	0.80
2	BA-140	<LLD	0.80
3	FE-59	NC/M	NC/M
4	TH-232	NC/M	NC/M
5	I-131	NC/M	NC/M
6	RA-226	NC/M	NC/M
7	CR-51	NC/M	NC/M
8	RU-103	NC/M	NC/M
9	CS-134	NC/M	NC/M
10	RU-106	NC/M	NC/M
11	CS-137	NC/M	NC/M
12	ZR-95	NC/M	NC/M
13	CO-58	NC/M	NC/M
14	MN-54	NC/M	NC/M
15	ZN-65	NC/M	NC/M
16	CO-60	NC/M	NC/M
17	K-40	NC/M	NC/M

INGESTION FOOD CROPS (WATERMELON) PATHWAY

The State has the responsibility to collect and analyze watermelon samples. There are no additional stations in this pathway.

Annual Gamma Analysis

All samples were collected and analyzed. There are no critical stations in this pathway. There are no preoperational data for this pathway. The 1982 operational analyses resulted in non-detectable activity as did all previous operational analyses.

WATERMELON

STATION C04 EFFECTIVE DATE: 6/16/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	24.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	24.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	24.00
10	RU-106	0.00	0.00
11	CS-137	ND	24.00
12	ZR-95	0.00	0.00
13	CO-58	ND	24.00
14	MN-54	ND	21.00
15	ZN-65	ND	42.00
16	CO-60	ND	24.00
17	K-40	0.00	0.00

FOOD CHAIN (SOIL) PATHWAY

The University of Florida has the responsibility to collect and analyze soil samples. There are no additional stations for this pathway.

Gamma Analysis

The soil sample collection and analysis is required once every three years. Samples were obtained in 1981 and are not required again until 1984.

FOOD CHAIN (MEAT) PATHWAY

The State has the responsibility to collect and analyze meat samples. There are no additional stations in this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There is no critical station in this pathway. There are no preoperational data for this pathway. All 1982 operational analyses resulted in non-detectable activity which is consistent with previous operational analyses.

MEAT

STATION C50 EFFECTIVE DATE: 7/13/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

MEAT

STATION C50 EFFECTIVE DATE: 7/13/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

FOOD CHAIN (POULTRY) PATHWAY

The State has the responsibility to collect and analyze poultry samples. There are no additional stations in this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There is no critical station in this pathway. There are no preoperational data for this pathway.

The 1982 operational concentrations were non-detectable as were all previous operational concentrations.

POULTRY

STATION C51 EFFECTIVE DATE: 11/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

POULTRY

STATION C51 EFFECTIVE DATE: 11/10/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

FOOD CHAIN (EGGS) PATHWAY

The State has the responsibility to collect and analyze egg samples. There are no additional stations in this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. There is no critical sample station in this pathway. There are no preoperational data for this pathway and all 1982 operational analyses resulted in non-detectable activity as did all previous operational analyses.

EGGS

STATION C51 EFFECTIVE DATE: 1/ 7/83

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

EGGS

STATION C51 EFFECTIVE DATE: 1/ 7/83

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	0.00	0.00
2	BA-140	ND	39.00
3	FE-59	0.00	0.00
4	TH-232	0.00	0.00
5	I-131	ND	38.00
6	RA-226	0.00	0.00
7	CR-51	0.00	0.00
8	RU-103	0.00	0.00
9	CS-134	ND	60.00
10	RU-106	0.00	0.00
11	CS-137	ND	37.00
12	ZR-95	0.00	0.00
13	CO-58	ND	60.00
14	MN-54	ND	32.00
15	ZN-65	ND	66.00
16	CO-60	ND	60.00
17	K-40	0.00	0.00

FOOD CHAIN (GREEN LEAFY VEGETABLES) PATHWAY

The University has the responsibility to collect and analyze green leafy vegetable samples. There are no additional stations for this pathway.

Semiannual Gamma Analysis

All samples were collected and analyzed. The critical station for this type of analysis (Sample Station C48) is in the east sector at 4.0 miles from the plant. There are no preoperational data for this pathway.

The 1982 operational concentrations are consistent with previous operational years' concentrations.

Semiannual Sr-90 Analysis

All samples were collected and analyzed. The critical station for this type of analysis is Station C48. The 1982 operational concentrations for Sr-90 were above the LLD for the analysis. No operational events or effluent releases from Crystal River Unit 3 could be linked with these values. The elevated concentrations may be the result of residual fallout from the 1980 weapons tests.

GREEN LEAFY VEGETABLES
STATION C47 EFFECTIVE DATE: 6/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	57.60
2	BA-140	ND	22.50
3	FE-59	ND	14.00
4	I-232	49.40	12.10
5	I-131	ND	6.71
6	RA-226	166.00	12.60
7	CR-51	ND	49.90
8	RU-103	ND	5.58
9	CS-134	7.91	6.49
10	RU-106	ND	51.90
11	CS-137	69.50	6.67
12	ZR-95	ND	10.80
13	CO-58	ND	6.03
14	MN-54	ND	6.14
15	ZN-65	ND	16.20
16	CO-60	ND	6.73
17	K-40	4560.00	86.70

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

GREEN LEAFY VEGETABLES
STATION C47 EFFECTIVE DATE: 6/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	33.90
2	BA-140	ND	17.24
3	FE-59	<LLD	12.14
4	TH-232	ND	11.04
5	I-131	ND	4.12
6	RA-226	<LLD	11.07
7	CR-51	ND	33.67
8	RU-103	58.32	4.59
9	CS-134	ND	6.07
10	RU-106	ND	43.74
11	CS-137	ND	5.61
12	ZR-95	ND	8.88
13	CO-58	ND	4.88
14	MN-54	ND	4.93
15	ZN-65	ND	14.13
16	CO-60	<LLD	6.09
17	K-40	ND	360.75

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

GREEN LEAFY VEGETABLES
STATION C48 EFFECTIVE DATE: 6/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	70.10
2	BA-140	ND	27.20
3	FE-59	ND	14.20
4	TH-232	19.10	15.30
5	I-131	ND	7.80
6	RA-226	155.00	16.70
7	CR-51	ND	60.50
8	RU-103	ND	7.07
9	CS-134	8.64	7.04
10	RU-106	ND	63.70
11	CS-137	464.00	7.80
12	ZR-95	ND	13.10
13	CO-58	ND	6.59
14	MN-54	ND	6.97
15	-65	ND	16.20
16	CO-60	ND	8.11
17	K-40	2020.00	81.90

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

GREEN LEAFY VEGETABLES
STATION C48 EFFECTIVE DATE: 6/17/82

	RADIO-NUCLIDE	CONC. (PCI/KG)	LLD. (PCI/KG)
1	CE-144	ND	56.12
2	BA-140	ND	30.24
3	FE-59	ND	19.64
4	TH-232	ND	15.70
5	I-131	ND	7.70
6	RA-226	58.64	24.58
7	CR-51	ND	65.65
8	RU-103	632.81	7.94
9	CS-134	ND	9.34
10	RU-106	ND	71.24
11	CS-137	495.69	42.01
12	ZR-95	ND	11.24
13	CO-58	ND	6.70
14	MN-54	ND	6.64
15	ZN-65	ND	14.10
16	CO-60	ND	7.66
17	K-40	947.87	226.00

TYPE "YES" TO CONTINUE WITH GAMMA ACCESS -OR- PRESS <CR> TO EXIT:

Sr 89/90 ANALYSIS (pCi/kg)
GREEN LEAFY VEGETABLES

STATION NO. C47 EFFECTIVE DATE: 6/17/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.24000E+02	0.14300E+01	0.64800E+02	0.11900E+01
SR-89	-0.30000E+01	0.18400E+02	-0.30000E+01	0.99600E+01

Sr 89/90 ANALYSIS (pCi/kg)
GREEN LEAFY VEGETABLES

STATION NO. C48 EFFECTIVE DATE: 6/17/82

	FIRST HALF		SECOND HALF	
	CONC.	LLD.	CONC.	LLD.
SR-90	0.79000E+02	0.13700E+01	0.61000E+02	0.90000E+00
SR-89	-0.30000E+01	0.18000E+02	-0.30000E+01	0.96100E+01

IV. EXTERNAL RADIATION

The "External Radiation" portion of the Radiological Environmental Monitoring Program (Specification 3.2.3) is split between the University and the State. (See Table I-1.) The University also has a TLD at Sample Station C47 and the State has additional TLD's at Sample Stations C04, C40, and C46. Sample Stations C14H, C14M, and C14G are the critical stations in this pathway.

The 1982 data from all TLD stations are consistent with previous operational years' data and preoperational data. Additionally, the critical stations and the control stations of the University also compare very well. However, because the University and the State use different types of TLD's, it is necessary to report their results separately. The higher values associated with Station C26 are attributed to the concentration of phosphate local to the station as well as substrate adjacent to the TLD location.

EFF DATE : 12 10-82

EXTERNAL RADIATION (mrem/yr)

U OF F : STATIONS C14H,C14M, AND C14G ARE CRITICAL.

PREOP. CONC. = 77.0 mrem/yr

LLD = 15.0 mrem/yr

STATION #	C04	C40	C41	C43	C46	C14H	C14M	C14G	C47
QUARTER 1	61.	71.	66.	64.	70.	72.	56.	58.	124.
QUARTER 2	39.	52.	47.	36.	50.	51.	31.	45.	52.
QUARTER 3	19.	46.	38.	30.	41.	41.	34.	36.	51.
QUARTER 4	34.	50.	43.	27.	46.	40.	34.	27.	50.

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY

CRYSTAL RIVER UNIT 3 DOCKET NO.50-302

CITRUS COUNTY, FLORIDA REPORTING PERIOD 01/01/82-12/31/82

PATHWAY	TYPE & NO.	LLD	ALL LOCATIONS	HIGHEST MEAN LOCATION	CONTROL LOCATION	NRR
AIR SUBMERSION (MREM/YR) U OF F	EXTERNAL RADIATION	36 15.0	50.(36/ 36)C47 (20.- 125.)	70.(4/ 4) (50.- 125.)	51.(24/ 24) (20.- 125.)	0

EFF DATE : 11-16-82

EXTERNAL RADIATION (mrem/yr)

STATE : ALL LOCATIONS ARE CONTROL.

PREOP. CONC. = 77.0 mrem/yr

LLD = 20.0 mrem/yr

STATION :	C04	C07	C09	C18	C26	C40	C46
QUARTER 1	30.	29.	32.	43.	159.	47.	38.
QUARTER 2	29.	30.	35.	39.	148.	45.	38.
QUARTER 3	30.	31.	32.	43.	162.	45.	36.
QUARTER 4	28.	30.	33.	37.	145.	45.	37.

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY

CRYSTAL RIVER UNIT 3 DOCKET NO.50-302

CITRUS COUNTY, FLORIDA REPORTING PERIOD 01/01/82-12/31/82

PATHWAY	TYPE	NO.	LLD	ALL LOCATIONS	HIGHEST MEAN LOCATION	CONTROL LOCATION	NRR
IR SUBMERSION (MREM/YR)	EXTERNAL RADIATION						
STATE		28	20.0	53.(28/ 28)(29.- 163.)	C26 154.(4/ 4)(145.- 163.)	53.(28/ 28)(29.- 163.)	0