6-74-77

10/5

UCID-17444-1

Lawrence Livermore Laboratory

IMPERIAL VALLEY ENVIRONMENTAL PROJECT:
QUARTERLY DATA REPORT

Compilers and Editors: Robert A. Nyholm and Lynn R. Anspaugh

April 13, 1977

This is an informal report intended primarily for internal or limited external distribution. The opinions and conclusions stated are those of the author and may or may not be those of the laboratory.

Prepared for U.S. Energy Research & Development Administration under contract No. W-7405-Eng-48.

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

**IMPERIAL VALLEY ENVIRONMENTAL PROJECT:
QUARTERLY DATA REPORT**

NOTICE
This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

Compilers and Editors:

Robert A. Nyholm
IVEP Data Base Manager
FTS: 457-5000
Comm.: (415) 447-1100, Ext. 5000

Lynn R. Anspaugh
IVEP Leader
FTS: 457-4920
Comm.: (415) 447-1100, Ext. 4920

Environmental Sciences Division
Lawrence Livermore Laboratory/University of California
Livermore, California 94550

MASTER

ACKNOWLEDGEMENTS

Nearly every individual involved in the Imperial Valley Environmental Project has contributed data to this report. We thank each of them for their efforts. We particularly thank Mr. Alan B. Crockett, Environmental Protection Agency; Dr. Robert G. Flocchini, University of California at Davis; Dr. Philip Leitner, St. Mary's College of California; Mr. William M. Moran, California State University of Hayward; Dr. Gary Fuis and Ms. Madeline Schnapp, U. S. Geological Survey; and Mr. Jerry G. Lackey, EG&G, Inc., for their contributions to this report.

Special acknowledgements are also due to Mr. Mike Axelrod who provided the summaries of the Air Quality data and to Mr. Vance Fowler who has maintained the Air Quality data base.

TABLE OF CONTENTS

Introduction	I-1
Air Quality	II-1
UC, Davis, Studies	II-105
Water Quality	III-1
Ecosystem Quality	IV-1
Site-Specific Baselines	IV-5
EPA Studies	IV-23
Shoreline Habitats	IV-49
St. Mary's College Studies	IV-95
Aquatic Studies	IV-105
Salton Sea Fishes (CSU, Hayward)	IV-107
Pileworm and Freshwater Studies	IV-117
Agriculture	IV-123
EPA Studies	IV-133
Desert Habitats (UCLA)	IV-137
Subsidence and Seismicity	V-1
Seismicity (USGS)	V-7
Socioeconomic Effects	VI-1
Remotely Sensed Data (EG&G)	VII-1
Measurements of Radioactivity	VIII-1
References	IX-1

INTRODUCTION

The Imperial Valley Environmental Project (IVEP) was established at the request of the Assistant Administrator for Environment and Safety of the U. S. Energy Research and Development Administration (ERDA).

The study was initiated as the result of a contractual relationship between the ERDA Division of Geothermal Energy and the San Diego Gas & Electric Co. to build and operate a Geothermal Loop Experimental Facility near Niland, California. This contract [No. E(04-3)-1137] included the statement:

"ERDA agrees to sponsor a coordinated baseline environmental study and assessment of the Imperial Valley. This baseline environmental study will consist of collecting and compiling existing data on the physical, biological and socio-economic environment of the Imperial Valley geothermal resources areas. In addition, field studies and measurements will be conducted to verify existing information and to provide data where deficiencies exist. The environmental studies will include a preliminary assessment using conceptual plant designs of substantial (500 MW electric) geothermal utilization development at each of the four major KGRA's. ERDA will structure the baseline and environmental study and assessment to provide the maximum feasible input data needed to support SDG&E's site qualification process. ERDA with SDG&E assistance will explore the possibility of participation by other agencies, public and private, in the environmental study program."

The Lawrence Livermore Laboratory (LLL) was given the responsibility to fulfill the above commitment on ERDA's behalf, and to manage the IVEP. A detailed plan¹ for the IVEP was prepared, and after approval of the plans the IVEP was initiated in 1975. A Progress Report² covering activities through October 1976 has been published, and several additional reports³⁻⁹ are available.

Geothermal exploration and development activities have greatly accelerated since the IVEP was initiated, and there is a need to achieve a more rapid transfer of detailed information from the IVEP to potential users. To achieve that objective, two types of reports are now being prepared. The first³ provides a precise description of what samples are being collected at what locations and how frequently. The second type, of which this Report is the first, is a catalog of all samples which have been collected and the presently available results of chemical and other analyses. We anticipate that this Report will be reissued on a quarterly basis.

An attempt has been made to include information available from collaborating agencies such as the Environmental Protection Agency (EPA) and the U.S. Geological Survey (USGS) and from contractors to the IVEP. Due to the short time-period during which this Report was prepared, however, it was not possible to include all available data. Many of these deficiencies are pointed out in the various Sections of this Report, and individuals are identified who may be contacted concerning such data.

Details of sampling protocols and interpretation of data are not included in this Report. Sampling protocols are provided in a separate report.³ Interpretive reports, such as Ref. 5, will be published through the normal channels of scientific communication.

This Report consists largely of outputs from the IVEP Data Base. The organization of this computerized data base has been documented.² The Data Base contains additional collateral information about many samples. This Data Base can be searched by sample type, geographical location, etc. User requests for specific searches should be communicated to the Data Base Manager.

Geographical locations of sampling sites are specified by Latitude/Longitude, by Township/Range/Section/Subsection, or by other information. Most locations are specified by Township/Range/Section/Subsection. Fig. I-1 is a map of Imperial Valley which provides the necessary information to locate sites by Township and Range. Latitude and Longitude are also shown on this map. Fig. I-2 indicates how Sections and Subsections are specified within a particular Township and Range.

In most cases, data in this Report pertain to individual samples and individual measurements. The majority of the Air Quality data is an exception. Here, the quantity of data is so large that graphical summaries were judged to be the most effective means of communication. More detailed results can be provided upon request.

The purpose of this Report is to achieve rapid communication of the numbers and the types of samples that have been collected, and of the presently available analytical results. Results can be affected profoundly by variables which are not specified in this Report. Users are therefore urged not to attempt interpretation of data in this Report unless the originator of the data is contacted.

Fig. I-1. Locator map for Imperial Valley giving Township and Range and Latitude and Longitude. Also shown are the Valley's Known Geothermal Resource Areas (KGRAs).

Fig. I-2. An individual Township and Range area is subdivided into 36 Sections. Each individual Section is further subdivided into 16 Subsections, designated by A through R.

AIR QUALITY

Element Leader: Paul H. Gudiksen
Atmospheric and Geophysical
Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-3481
Commercial: (415) 447-1100 Ext. 3481

3

3

Six air quality and meteorological monitoring stations have been placed in operation within the Imperial Valley. Their name designations are listed in Table II-1, and their locations are shown in Fig. II-1. Monthly summaries of H_2S , SO_2 and O_3 ambient air concentrations as well as wind speed and direction and temperature data for each station are given in Fig. II-2 to II-96. All of the meteorological data were obtained at a height of 10 m above the surface with the exception of the upper level wind data at the Heber Station which were measured at 60 m. Particulate mass loading data obtained over 24 hr sampling periods at each station are listed in Table II-2.

Part of our effort has also been directed toward measuring the non-condensable emissions from the SDG&E Geothermal Loop Experimental Facility near Niland. Table II-3 provides a listing of the results of these measurements, while Fig. II-97 displays the variation in the H_2S stack concentrations during several days in January 1977.

Ambient noise measurements were made at three locations in the Imperial Valley on January 15, 1976, using a B&K^a 2203 sound level meter and 1613 octave band analyzer. The instrumentation was calibrated before and after the measurements with a B&K 4220 pistonphone acoustic calibrator. The results are given in Table II-4.

^aReference to a company or product name does not imply approval or recommendation of the product by the University of California or the U. S. Energy Research & Development Administration to the exclusion of others that may be suitable.

Table II-1. Air quality station identification and location data.

Station Number	Station Name	Location
1	Niland	Reinjection well of SDG&E Facility
2	Imperial	Imperial Irrigation District Headquarters
3	Heber	Chevron and SDG&E site south of Heber
4	East Mesa	Bureau of Reclamation Well 5-1
5	Elmore	Elmore Land Company property
6	Brawley	Union Oil Kruger Well No. 1

Table II-2. Mass loading data from Imperial Valley, California. All results are in $\mu\text{g}/\text{m}^3$.

Date	Station Number					
	1	2	3	4	5	6
1/14/77	56.1	-	177.	61.9	25.8	-
1/21/77	81.9	281.	-	71.8	64.6	-
1/28/77	55.8	18.2	65.3	-	-	-
2/ 4/77	38.4	119.	51.8	68.5	61.7	95.3
2/11/77	-	111.	-	-	44.9	-
2/18/77	137.5	187.	120.	-	420.	143.
2/25/77	55.2	45.2	38.2	36.3	20.2	47.9

Table II-3. Source measurements at the SDG&E Geothermal Loop Experimental Facility.

Date	Sampling Point	Chemical Species	Concentration
6/14/76	stack	H ₂ S	1500 ppmv
6/14/76	stack	H ₂ S	1850 ppmv
6/14/76	stack	H ₂ S	2500 ppmv
5/27/76	steam outlet from 1st stage	CO ₂	98%
5/27/76	steam outlet from 1st stage	H ₂	0.34%
5/27/76	steam outlet from 1st stage	N ₂	0.25%
5/27/76	steam outlet from 1st stage	CH ₄	1.35%
6/16/76	stack	CO ₂	98%
6/16/76	stack	H ₂	0.13%
6/16/76	stack	N ₂	0.3%
6/16/76	stack	CH ₄	1.0%
11/6/76	stack	H ₂ S	2850 ppmv
11/6/76	stack	H ₂ S	2780 ppmv
11/7/76	stack	H ₂ S	2500 ppmv
1/12/77	1st stage condensate	NH ₃	313 ppmv
1/12/77	2nd stage condensate	NH ₃	251 ppmv
1/12/77	3rd stage condensate	NH ₃	157 ppmv
1/12/77	4th stage condensate	NH ₃	96 ppmv
11/6/76	stack	NH ₃	84 ppmv
11/7/76	stack	NH ₃	4.4 ppmv
11/7/76	stack	NH ₃	7.9 ppmv

Table II-4. Results of ambient noise measurements made in Imperial Valley on January 15, 1976. The weather conditions were 75°F and an 8 mph north wind.

Location	Scale ^a or frequency (Hz)	Noise level (dB)
Salton Sea Wildlife Refuge at Foss Road	A	36
	B	50
	C	60
	Lin.	61
Intersection of South First St. and Main St., Brawley		
	a. Low traffic density	65
	b. Normal car and truck traffic	75
	c. Mostly truck traffic	85
Geothermal well Woolsey No. 1 adjacent to SDG&E/ERDA facility	44-88	58
	88-177	52
	177-354	40
	354-707	33
	707-1414	30
	1414-2828	21
	2828-5657	14
	5657-11314	14
	A	38
	B	52
	C	62
	Lin.	63

^aThe four scales correspond to different frequency response measurements. The A, B, and C scales correspond to the 40, 70, and 100 phon equal loudness contours, and have rolloffs of -30 dB, -13 dB, and -2 dB at 50 Hz. The Lin. scale represents a uniform frequency response over the range of the instrument.

Fig. II-1. Map of Imperial Valley showing the location of the air-quality stations.

NILAND STATION 1
DEC 1, 1976 TO DEC 21, 1976
15 MINUTE AVERAGES

NUMBER OF POINTS = 1576
MAXIMUM VALUE = 71.7
UPPER QUARTILE = 3.2
MEDIAN VALUE = 2.5
LOWER QUARTILE = 2.2
MINIMUM VALUE = .0

Fig. II-2

NILAND STATION 1
DEC 1, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS= 2773
MAXIMUM VALUE = 53.1
UPPER QUARTILE = 6.7
MEDIAN VALUE = 2.0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-3

NILAND STATION 1
DEC 3, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2582
MAXIMUM VALUE = 56.8
UPPER QUARTILE = 27.6
MEDIAN VALUE = 14.5
LOWER QUARTILE = 5.0
MINIMUM VALUE = .3

Fig. II-4

NILAND STATION 1
DEC 1, 1976
TO
DEC 31, 1976

2778 POINTS
15 MINUTE AVERAGES
0 x CALM WIND

Fig. II-5

II-11

NILAND STATION 1
DEC 1, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2778
MAXIMUM VALUE = 12.4
UPPER QUARTILE = 3.0
MEDIAN VALUE = 2.2
LOWER QUARTILE = 1.6
MINIMUM VALUE = .3

Fig. II-6

NILAND STATION 1
 DEC 1, 1976 TO DEC 31, 1976
 15 MINUTE AVERAGES

NUMBER OF POINTS= 2612
 MAXIMUM VALUE = 23.5
 UPPER QUARTILE = 16.5
 MEDIAN VALUE = 12.8
 LOWER QUARTILE = 8.9
 MINIMUM VALUE = .4

Fig. II-7

NILAND STATION 1
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2169
MAXIMUM VALUE = 69.9
UPPER QUARTILE = 1.4
MEDIAN VALUE = .5
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-8

NILAND STATION 1
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 1770
MAXIMUM VALUE = 21.1
UPPER QUARTILE = 3.3
MEDIAN VALUE = 1.2
LOWER QUARTILE = .2
MINIMUM VALUE = .0

Fig. II-9

NILAND STATION 1
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2383
MAXIMUM VALUE = 52.3
UPPER QUARTILE = 20.0
MEDIAN VALUE = 9.9
LOWER QUARTILE = 5.3
MINIMUM VALUE = .0

Fig. II-10

NILAND STATION 1
JAN 1, 1977
TO
JAN 31, 1977

2431 POINTS
15 MINUTE AVERAGES

0 x CALM WIND

Fig. II-11

NILAND STATION 1
 JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2431
 MAXIMUM VALUE = 9.9
 UPPER QUARTILE = 3.0
 MEDIAN VALUE = 2.4
 LOWER QUARTILE = 1.8
 MINIMUM VALUE = .3

Fig. II-12

NILAND STATION 1
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 2385
MAXIMUM VALUE = 23.9
UPPER QUARTILE = 14.9
MEDIAN VALUE = 12.2
LOWER QUARTILE = 9.4
MINIMUM VALUE = .2

Fig. II-13

NILAND STATION 1
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2262
MAXIMUM VALUE = 69.2
UPPER QUARTILE = .9
MEDIAN VALUE = .2
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-14

NILAND STATION 1
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2103
MAXIMUM VALUE	=	58.1
UPPER QUARTILE	=	2.0
MEDIAN VALUE	=	.4
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-15

NILAND STATION 1
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2305
MAXIMUM VALUE = 86.3
UPPER QUARTILE = 40.4
MEDIAN VALUE = 27.1
LOWER QUARTILE = 7.5
MINIMUM VALUE = 2.2

Fig. II-16

NILAND STATION 1
FEB 1, 1977
TO
FEB 28, 1977

2379 POINTS
15 MINUTE AVERAGES

0 = CALM WIND

II-23

Fig. II-17

NILAND STATION 1
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2379
MAXIMUM VALUE = 13.3
UPPER QUARTILE = 3.7
MEDIAN VALUE = 2.7
LOWER QUARTILE = 1.9
MINIMUM VALUE = .3

Fig. II-18

NILAND STATION 1
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 2360
MAXIMUM VALUE = 30.9
UPPER QUARTILE = 20.7
MEDIAN VALUE = 17.0
LOWER QUARTILE = 12.6
MINIMUM VALUE = 3.9

Fig. II-19

IMPERIAL STATION 2
DEC 6, 1976 TO DEC 30, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS=	2251
MAXIMUM VALUE =	43.7
UPPER QUARTILE =	3.7
MEDIAN VALUE =	2.0
LOWER QUARTILE =	1.0
MINIMUM VALUE =	.0

Fig. II-20

IMPERIAL STATION 2
 DEC 6, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS= 2371
 MAXIMUM VALUE = 81.4
 UPPER QUARTILE = 15.5
 MEDIAN VALUE = 9.1
 LOWER QUARTILE = 5.8
 MINIMUM VALUE = .0

Fig. II-21

IMPERIAL STATION 2
DEC 6, 1976 TO DEC 31, 1976
15 MINUTE AVERAGES

NUMBER OF POINTS= 2374
MAXIMUM VALUE = 38.7
UPPER QUARTILE = 18.0
MEDIAN VALUE = 8.7
LOWER QUARTILE = 3.7
MINIMUM VALUE = .0

Fig. II-22

IMPERIAL STATION 2
 DEC 6, 1976
 TO
 DEC 31, 1976

2375 POINTS
 15 MINUTE AVERAGES

0 x CALM WIND

Fig. II-23

IMPERIAL STATION 2
DEC '6, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2375
MAXIMUM VALUE = 10.1
UPPER QUARTILE = 2.4
MEDIAN VALUE = 1.9
LOWER QUARTILE = 1.4
MINIMUM VALUE = .3

Fig. II-24

IMPERIAL STATION 2
DEC 6, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS= 2375
MAXIMUM VALUE = 23.3
UPPER QUARTILE = 16.3
MEDIAN VALUE = 12.0
LOWER QUARTILE = 8.6
MINIMUM VALUE = 2.6

Fig. II-25

IMPERIAL STATION 2
JAN 3, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2444
MAXIMUM VALUE	=	39.3
UPPER QUARTILE	=	3.2
MEDIAN VALUE	=	2.1
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-26

IMPERIAL STATION 2
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 2435
MAXIMUM VALUE = 88.8
UPPER QUARTILE = 16.6
MEDIAN VALUE = 8.5
LOWER QUARTILE = 1.9
MINIMUM VALUE = .0

Fig. II-27

IMPERIAL STATION 2
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS*	2659
MAXIMUM VALUE	= 70.3
UPPER QUARTILE	= 18.3
MEDIAN VALUE	= 11.3
LOWER QUARTILE	= 5.6
MINIMUM VALUE	= .7

Fig. II-28

IMPERIAL STATION 2
JAN 1, 1977
TO
JAN 31, 1977

2669 POINTS
15 MINUTE AVERAGES

1 X CALM WIND

Fig. II-29

IMPERIAL STATION 2
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2669
MAXIMUM VALUE	=	9.4
UPPER QUARTILE	=	2.4
MEDIAN VALUE	=	1.8
LOWER QUARTILE	=	1.3
MINIMUM VALUE	=	.3

Fig. II-30

IMPERIAL STATION 2
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2669
MAXIMUM VALUE = 24.3
UPPER QUARTILE = 15.9
MEDIAN VALUE = 12.2
LOWER QUARTILE = 9.2
MINIMUM VALUE = 1.0

Fig. II-31

IMPERIAL STATION 2
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2489
MAXIMUM VALUE	=	25.2
UPPER QUARTILE	=	3.9
MEDIAN VALUE	=	2.9
LOWER QUARTILE	=	2.2
MINIMUM VALUE	=	.0

Fig. II-32

IMPERIAL STATION 2
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2453
MAXIMUM VALUE	=	51.0
UPPER QUARTILE	=	19.6
MEDIAN VALUE	=	8.2
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-33

IMPERIAL STATION 2
FEB 1, 1977
TO
FEB 28, 1977

2543 POINTS
15 MINUTE AVERAGES

.0 X CALM WIND

Fig. II-34

IMPERIAL STATION 2
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2543
MAXIMUM VALUE = 11.2
UPPER QUARTILE = 2.8
MEDIAN VALUE = 2.1
LOWER QUARTILE = 1.6
MINIMUM VALUE = .5

Fig. II-35

IMPERIAL STATION 2
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS=	2543
MAXIMUM VALUE =	31.4
UPPER QUARTILE =	20.9
MEDIAN VALUE =	16.0
LOWER QUARTILE =	11.8
MINIMUM VALUE =	4.4

Fig. II-36

HEBER STATION 3
 DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2441
 MAXIMUM VALUE = 94.0
 UPPER QUARTILE = 2.6
 MEDIAN VALUE = 2.0
 LOWER QUARTILE = 1.4
 MINIMUM VALUE = .0

Fig. II-37

HEBER STATION 3
DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2442
MAXIMUM VALUE = 242.5
UPPER QUARTILE = 3.9
MEDIAN VALUE = .0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-38

HEBER STATION 3
DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2442
MAXIMUM VALUE = 71.2
UPPER QUARTILE = 15.7
MEDIAN VALUE = 6.5
LOWER QUARTILE = 2.9
MINIMUM VALUE = .0

Fig. II-39

Fig. II-40

HEBER STATION 3
 DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2442
MAXIMUM VALUE	=	10.5
UPPER QUARTILE	=	2.7
MEDIAN VALUE	=	1.9
LOWER QUARTILE	=	1.3
MINIMUM VALUE	=	.2

Fig. II-41

HEBER STATION 3
 DEC 5, 1976
 TO
 DEC 31, 1976
 UP WND DIR

2442 POINTS
 15 MINUTE AVERAGES
 2 x CALM WIND

Fig. II-42

HEBER STATION 3
DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2442
MAXIMUM VALUE = 13.6
UPPER QUARTILE = 4.7
MEDIAN VALUE = 3.1
LOWER QUARTILE = 1.8
MINIMUM VALUE = .1

Fig. II-43

HEBER STATION 3
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 2863
MAXIMUM VALUE = 46.2
UPPER QUARTILE = 2.6
MEDIAN VALUE = 2.1
LOWER QUARTILE = 1.6
MINIMUM VALUE = .0

Fig. II-44

Fig. II-45

HEBER STATION 3
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2023
MAXIMUM VALUE = 63.7
UPPER QUARTILE = 22.7
MEDIAN VALUE = 11.6
LOWER QUARTILE = 5.5
MINIMUM VALUE = .0

Fig. II-46

HEBER STATION 3
 JAN 1, 1977
 TO
 JAN 31, 1977
 LW WND DIR

2890 POINTS
 15 MINUTE AVERAGES
 2 X CALM WIND

Fig. II-47

HEBER STATION 3
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2890
MAXIMUM VALUE = 9.5
UPPER QUARTILE = 2.6
MEDIAN VALUE = 1.9
LOWER QUARTILE = 1.3
MINIMUM VALUE = .1

Fig. II-48

HEBER STATION 3
 JAN 1, 1977
 TO
 JAN 31, 1977
 UP WND DIR

2890 POINTS
 15 MINUTE AVERAGES
 8 x CALM WIND

Fig. II-49

HEBER STATION 3
JAN 1, 1977 TO JAN 31, 1977
15 MINUTE AVERAGES

NUMBER OF POINTS = 2890
MAXIMUM VALUE = 13.0
UPPER QUARTILE = 4.4
MEDIAN VALUE = 2.6
LOWER QUARTILE = 1.5
MINIMUM VALUE = .1

Fig. II-50

HEBER STATION 3
JAN 1, 1977 TO JAN 14, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS=	1247
MAXIMUM VALUE	= 19.3
UPPER QUARTILE	= 13.5
MEDIAN VALUE	= 10.7
LOWER QUARTILE	= 8.0
MINIMUM VALUE	= 1.0

Fig. II-51

HEBER STATION 3
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2404
MAXIMUM VALUE	=	86.7
UPPER QUARTILE	=	1.8
MEDIAN VALUE	=	1.3
LOWER QUARTILE	=	.9
MINIMUM VALUE	=	.0

Fig. II-52

HEBER STATION 3
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2405
 MAXIMUM VALUE = 296.5
 UPPER QUARTILE = 40.8
 MEDIAN VALUE = 28.3
 LOWER QUARTILE = 18.3
 MINIMUM VALUE = .0

Fig. II-53

HEBER STATION 3
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2403
MAXIMUM VALUE = 90.3
UPPER QUARTILE = 30.4
MEDIAN VALUE = 20.1
LOWER QUARTILE = 11.7
MINIMUM VALUE = .0

Fig. II-54

HEBER STATION 3
 FEB 1, 1977
 TO
 FEB 28, 1977
 LW WND DIR

2406 POINTS
 15 MINUTE AVERAGES
 2 x CALM WIND

Fig. II-55

HEBER STATION 3
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2406
MAXIMUM VALUE = 11.7
UPPER QUARTILE = 3.4
MEDIAN VALUE = 2.4
LOWER QUARTILE = 1.6
MINIMUM VALUE = .1

Fig. II-56

HEBER STATION 3
 FEB 1, 1977
 TO
 FEB 28, 1977
 UP WND DIR

2406 POINTS
 15 MINUTE AVERAGES
 3 X CALM WIND

Fig. II-57

HEBER STATION 3
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2406
MAXIMUM VALUE	=	17.4
UPPER QUARTILE	=	6.2
MEDIAN VALUE	=	4.3
LOWER QUARTILE	=	2.4
MINIMUM VALUE	=	.1

Fig. II-58

HEBER STATION 3
FEB 16, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 911
MAXIMUM VALUE = 30.8
UPPER QUARTILE = 21.2
MEDIAN VALUE = 17.3
LOWER QUARTILE = 13.4
MINIMUM VALUE = 5.6

Fig. II-59

EAST MESA STATION 4
DEC 2, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2350
MAXIMUM VALUE	=	92.4
UPPER QUARTILE	=	2.6
MEDIAN VALUE	=	.1
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-60

EAST MESA STATION 4
DEC 2, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS= 2354
MAXIMUM VALUE = 29.1
UPPER QUARTILE = .0
MEDIAN VALUE = .0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-61

EAST MESA STATION 4
DEC 2, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2354
MAXIMUM VALUE = 23.6
UPPER QUARTILE = 16.6
MEDIAN VALUE = 12.6
LOWER QUARTILE = 9.6
MINIMUM VALUE = 3.3

Fig. II-62

EAST MESA STATION 4
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS= 2490
MAXIMUM VALUE = 22.0
UPPER QUARTILE = .5
MEDIAN VALUE = .2
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-63

EAST MESA STATION 4
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2569
MAXIMUM VALUE = 80.3
UPPER QUARTILE = .0
MEDIAN VALUE = .0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-64

EAST MESA STATION 4
JAN 11, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	1633
MAXIMUM VALUE	=	7.5
UPPER QUARTILE	=	2.7
MEDIAN VALUE	=	2.0
LOWER QUARTILE	=	1.4
MINIMUM VALUE	=	.2

Fig. II-66

EAST MESA STATION 4
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2595
MAXIMUM VALUE = 24.2
UPPER QUARTILE = 15.6
MEDIAN VALUE = 12.6
LOWER QUARTILE = 9.5
MINIMUM VALUE = 1.7

Fig. II-67

EAST MESA STATION 4
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2543
MAXIMUM VALUE = 53.2
UPPER QUARTILE = 2.9
MEDIAN VALUE = 2.3
LOWER QUARTILE = 1.4
MINIMUM VALUE = .0

Fig. II-68

EAST MESA STATION 4
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2572
MAXIMUM VALUE = 18.1
UPPER QUARTILE = 2.3
MEDIAN VALUE = .6
LOWER QUARTILE = .1
MINIMUM VALUE = .0

Fig. II-69

EAST MESA STATION 4
FEB 1, 1977 TO FEB 28, 1977
15 MINUTE AVERAGES

NUMBER OF POINTS = 2567
MAXIMUM VALUE = 62.2
UPPER QUARTILE = 35.2
MEDIAN VALUE = 25.2
LOWER QUARTILE = 14.4
MINIMUM VALUE = .0

Fig. II-70

EAST MESA STATION 4
FEB 1, 1977
TO
FEB 28, 1977

2572 POINTS
15 MINUTE AVERAGES

0 X CALM WIND

Fig. II-71

EAST MESA STATION 4
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2572
MAXIMUM VALUE = 11.4
UPPER QUARTILE = 3.5
MEDIAN VALUE = 2.5
LOWER QUARTILE = 1.7
MINIMUM VALUE = .3

Fig. II-72

EAST MESA STATION 4
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2572
 MAXIMUM VALUE = 30.7
 UPPER QUARTILE = 21.7
 MEDIAN VALUE = 16.9
 LOWER QUARTILE = 12.8
 MINIMUM VALUE = 4.9

Fig. II-73

ELMORE STATION 5
DEC 4, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2280
MAXIMUM VALUE = 44.7
UPPER QUARTILE = 1.7
MEDIAN VALUE = .6
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-74

ELMORE STATION 5
DEC 5, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2171
MAXIMUM VALUE = 7.1
UPPER QUARTILE = 2.0
MEDIAN VALUE = .0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-75

ELMORE STATION 5
 DEC 5, 1976 TO DEC 31, 1976
 15 MINUTE AVERAGES

NUMBER OF POINTS = 2174
 MAXIMUM VALUE = 48.7
 UPPER QUARTILE = 28.0
 MEDIAN VALUE = 22.7
 LOWER QUARTILE = 16.4
 MINIMUM VALUE = 4.2

Fig. II-76

ELMORE STATION 5
 DEC 4, 1976
 TO
 DEC 31, 1976

2292 POINTS
 15 MINUTE AVERAGES
 1 X CALM WIND

Fig. II-77

ELMORE STATION 5
DEC 4, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2292
MAXIMUM VALUE = 12.5
UPPER QUARTILE = 3.7
MEDIAN VALUE = 2.7
LOWER QUARTILE = 1.6
MINIMUM VALUE = .3

Fig. II-78

ELMORE STATION 5
DEC 4, 1976 TO DEC 31, 1976

15 MINUTE AVERAGES

NUMBER OF POINTS = 2292
MAXIMUM VALUE = 23.8
UPPER QUARTILE = 16.5
MEDIAN VALUE = 12.9
LOWER QUARTILE = 9.7
MINIMUM VALUE = .5

Fig. II-79

ELMORE STATION 5
JAN 1. 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 1710
MAXIMUM VALUE = 86.1
UPPER QUARTILE = .0
MEDIAN VALUE = .0
LOWER QUARTILE = .0
MINIMUM VALUE = .0

Fig. II-80

ELMORE STATION 5
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	1462
MAXIMUM VALUE	=	5.5
UPPER QUARTILE	=	.0
MEDIAN VALUE	=	.0
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-81

ELMORE STATION 5
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 1745
 MAXIMUM VALUE = 61.6
 UPPER QUARTILE = 27.7
 MEDIAN VALUE = 22.2
 LOWER QUARTILE = 16.5
 MINIMUM VALUE = 2.2

Fig. II-82

ELMORE STATION 5
JAN 1, 1977 TO JAN 31, 1977
15 MINUTE AVERAGES

NUMBER OF POINTS = 1746
MAXIMUM VALUE = 9.4
UPPER QUARTILE = 3.4
MEDIAN VALUE = 2.5
LOWER QUARTILE = 1.7
MINIMUM VALUE = .2

Fig. II-84

ELMORE STATION 5
 JAN 1, 1977
 TO
 JAN 31, 1977

METERS PER SECOND
 .5 TO 2 2 TO 6 ABOVE 6
 0 25
 PERCENT FREQUENCY

1746 POINTS
 15 MINUTE AVERAGES
 0 X CALM WIND

Fig. II-83

ELMORE STATION 5
JAN 1, 1977 TO JAN 31, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 1747
MAXIMUM VALUE = 23.0
UPPER QUARTILE = 14.3
MEDIAN VALUE = 11.9
LOWER QUARTILE = 9.2
MINIMUM VALUE = 1.9

Fig. II-85

ELMORE STATION 5
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2029
MAXIMUM VALUE = 46.2
UPPER QUARTILE = 5.6
MEDIAN VALUE = 4.7
LOWER QUARTILE = 3.6
MINIMUM VALUE = 1.1

Fig. II-86

ELMORE STATION 5
 FEB 1, 1977 TO FEB 28, 1977
 15 MINUTE AVERAGES

NUMBER OF POINTS = 2030
 MAXIMUM VALUE = 10.8
 UPPER QUARTILE = .4
 MEDIAN VALUE = .0
 LOWER QUARTILE = .0
 MINIMUM VALUE = .0

Fig. II-87

ELMORE STATION 5
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2029
MAXIMUM VALUE = 84.3
UPPER QUARTILE = 38.7
MEDIAN VALUE = 29.7
LOWER QUARTILE = 22.7
MINIMUM VALUE = 1.6

Fig. II-88

ELMORE STATION 5
FEB 1, 1977
TO
FEB 28, 1977

2030 POINTS
15 MINUTE AVERAGES

1 X CALM WIND

Fig. II-89

ELMORE STATION 5
FEB 1, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	2030
MAXIMUM VALUE	=	16.1
UPPER QUARTILE	=	4.2
MEDIAN VALUE	=	2.9
LOWER QUARTILE	=	1.8
MINIMUM VALUE	=	.2

Fig. II-90

BRAWLEY STATION 6
FEB 10, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 1604
MAXIMUM VALUE = 46.8
UPPER QUARTILE = 1.5
MEDIAN VALUE = 1.0
LOWER QUARTILE = .6
MINIMUM VALUE = .0

Fig. II-91

BRAWLEY STATION 6
FEB 15, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS	=	1128
MAXIMUM VALUE	=	8.8
UPPER QUARTILE	=	.3
MEDIAN VALUE	=	.0
LOWER QUARTILE	=	.0
MINIMUM VALUE	=	.0

Fig. II-92

BRAWLEY STATION 6
FEB 10, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 1603
MAXIMUM VALUE = 70.2
UPPER QUARTILE = 27.9
MEDIAN VALUE = 16.5
LOWER QUARTILE = 6.6
MINIMUM VALUE = .0

Fig. II-93

BRAWLEY STATION 6
 FEB 2, 1977
 TO
 FEB 28, 1977

2315 POINTS
 15 MINUTE AVERAGES

0 X CALM WIND

II-100

Fig. II-94

BRAWLEY STATION 6
FEB 2, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2315
MAXIMUM VALUE = 11.7
UPPER QUARTILE = 3.2
MEDIAN VALUE = 2.2
LOWER QUARTILE = 1.4
MINIMUM VALUE = .4

Fig. II-95

BRAWLEY STATION 6
FEB 2, 1977 TO FEB 28, 1977

15 MINUTE AVERAGES

NUMBER OF POINTS = 2316
MAXIMUM VALUE = 30.6
UPPER QUARTILE = 21.1
MEDIAN VALUE = 16.7
LOWER QUARTILE = 12.3
MINIMUM VALUE = 3.9

Fig. II-96

Fig. II-97. Results of on-line measurements of H₂S concentration in the noncondensable gases at the SDG&E/ERDA Geothermal Loop Experimental Facility near Niland.

AIR QUALITY

Contractor: Robert G. Flocchini
Thomas A. Cahill
Air Quality Group
Crocker Nuclear Laboratory
University of California
Davis, California 95616

FTS: 453-1120
Commercial: (916) 752-1460

A particulate sampling project was performed during November 3 -5, 1976, along the U.S.-Mexico border. The samplers consisted of two stage filter units with a cutoff of about 3 μm . The sampling sites are shown in Fig. II-98. The mean concentrations of selected elements in the <3 μm fraction of the collected particulates are shown in Figs. II-99 to II-101 as a function of sampling location.

Soil samples were also collected at each site and were analyzed for elemental concentrations. The ratios of selected elements are listed in Table II-4.

Fig. II-98. Locations along the International Border where particulate samples were collected during November 3-5, 1976.

Fig. II-99. Results of analyses of airborne particulates ($<3 \mu\text{m}$) for silicon and other elements typical of soils. Samples were collected during November 3-5, 1976, at the locations shown in Fig. II-98.

Fig. II-100. Results of analyses of airborne particulates ($<3\ \mu\text{m}$) for elements typical of automotive sources. Samples were collected during November 3-5, 1976, at the locations shown in Fig. II-98.

Fig. II-101. Results of analyses of airborne particulates (<3 μm) for sulfur. Samples were collected during November 3-5, 1976, at the locations shown in Fig. II-98.

Table II-4. Elemental ratios in Imperial Valley soils.

Site ^b	Elemental Ratios ^a						
	Al/Si	K/Si	Ca/Si	Ti/Si	Mn/Si	Fe/Si	
1	0.31	0.128	0.37	0.0127	0.0025	0.133	Desert
2	0.27	0.154	0.36	0.0205	0.0034	0.226	
3	0.27	0.159	0.33	0.0230	0.0042	0.239	
4	0.345	0.137	0.22	0.0135	0.0025	0.146	
5	0.315	0.120	0.27	0.0170	0.0028	0.139	Calexico
6	0.293	0.129	0.35	0.0205	0.0033	0.196	
7	0.33	0.173	0.49	0.027	0.0044	0.363	Desert
8	0.19	0.073	0.07	0.0067	0.0011	0.041	

Other Elements	Desert			Valley Soils		
	East	Avg.	West	Non-Irrigated	Avg.	Irrigated
Na/Si	-	-	<0.005	-	-	-
Mg/Si	-	-	<0.005	-	0.05	-
Cl/Si	<0.005	<0.004	<0.003	<0.005	-	0.17
S/Si	<0.005	<0.004	<0.003	<0.005	-	0.010
V/Si	-	-	0.0016	-	<0.0008	-
Cu/Si	-	<0.001	-	-	0.001	-
Zn/Si	-	<0.001	-	-	0.002	-
Sr/Si	-	-	0.003	-	<0.002	-

^aNo size corrections applied.^bAs shown on Figure II -98.

WATER QUALITY

Element Leader: Kenneth D. Pimentel
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, California 94550

FTS: 457-4922
Commercial: (415) 447-1100,
Ext. 4922

The Water Quality group has established several water collection networks. The Valley-wide water-sampling sites are indicated in Fig. III-1. More dense sampling grids have been established in each of the four major KGRAs. These are indicated in Fig. III-2, and each network is shown in more detail in Figs. III-3 to III-6.

Each water-sampling site is designated by a unique two character code. These sites, ordered by the two character code, are listed in Table III-1 where their location is given by Latitude/Longitude and by Township/Range/Section/Subsection. Figs. I-1 and I-2 may be consulted to translate locations by Township/Range/Section/Subsection to the locations shown in Figs. III-1 to III-6. Further location information is provided in the Free Comment field of Table III-1. Here, sites are specified by the Canal, Drain, etc. indicated in Figs. III-1 to III-6. In this Free Comment field, the following abbreviations are used: C. = Canal, D. = Drain, R. = River, S. = Sea, and W. = Well (domestic water well, not a geothermal well). Table III-2 contains the same information as does Table III-1, but Table III-2 is ordered by Township/Range/Section/Subsection.

Table III-3 lists all samples collected through February, 1977. This table is ordered by the two-character site code given in Table III-1. Also given in Table III-3 are the results of field measurements of temperature, pH, and standard conductance in units of $\mu\text{mho/cm}$ at 25°C .

III-4

The results of all presently available chemical analyses are included in Table III-3. Results may be reported for subsamples treated in the following ways:

1. Unfiltered, unacidified
 2. Filtered, unacidified
 3. Filtered, acidified HCl (5 ml 1:1)
 4. Filtered, acidified HNO₃ (5 ml 1:1)
 5. Filtered, acidified HCl (5 ml 1:1), 0.1 µm filter
 6. Filtered, acidified HNO₃ (1 ml 1:1), 0.45 µm filter
 7. Filter residue
 8. Filtered, acidified H₂SO₄ (pH < 2) 0.4 µm filter
 9. Filtered, acidified HNO₃ Ultrex (pH < 2) 0.4 µm filter
 10. Filtered, Zn acetate (2 g/l) 0.4 µm filter
- } 0.4 or 0.45 µm filter

Trace metal analyses are usually reported on subsamples with treatment 4, and major minerals are usually reported on subsamples with treatment 2.

In some cases aliquots of a sample have been analyzed by separate laboratories or by different methods. If this has occurred, the result in Table III-3 is an average.

Fig. III-1. Valley-wide water-sampling sites.

Fig. III-2. Site-specific water-sampling networks in the four major KGRAs.

Fig. III-3. Salton Sea KGRA water-sample sites.

Fig. III-4. North Brawley KGRA water-sample sites.

Fig. III-5. Heber KGRA water-sample sites.

Fig. III-6. East Mesa KGRA water-sample sites.

III-11

Table III-1. Locations of water-sampling sites in Imperial Valley. The list is ordered by the two character Site Code.

SITE-CODE*	LATITUDE*	LONGITUDE*	TOWN/RANGE	FREE-COMMENT-FIELD**
AA	N3306.240	W11534.230	12S13E24P	C.VAIL VAIL E.BRANDT
AB	N3307.995	W11536.835	12S13E09R	C.VAIL4 GENTRY/YOUNG
AC	N3307.995	W11536.800	12S13E10N	D.VAIL4 GENTRY/YOUNG
AD	N3309.300	W11537.305	12S13E04G	D.VAIL4A BOYLE/KUNS
AE	N3309.300	W11537.325	12S13E04F	C.VAIL4A BOYLE/KUNS
AF	N3309.950	W11537.305	11S13E33K	D.VAIL4A BOYLE S.MCK
AG	N3242.800	W11456.530	16S20E31Q	C.ALL AMERICAN DROP1
AH	N3240.520	W11522.145	17S16E18C	R.ALAMO AT BORDER
AI	N3239.965	W11530.155	17S14E14Q	R.NEW AT BORDER
AJ	N3239.965	W11530.155	17S14E14Q	R.NEW AT BORDER
AK	N3311.930	W11535.770	11S13E23E	R.ALAMO GARST RD BR
AL	N3305.985	W11538.660	12S13E29E	R.NEW LACK RD BR
AM	N3258.725	W11527.960	13S15E31E	R.ALAMO R78 E BRAWLY
AN	N3300.470	W11531.310	13S14E21J	R.NEW DROP3 N BRAWLY
AO	N3308.865	W11536.785	12S13E03N	D.VAIL4 GENTRY/LINDS
AP	N3308.865	W11536.825	12S13E04R	C.VAIL4 GENTRY/LINDS
AQ	N3309.730	W11536.785	11S13E34N	D.VAIL4 GENTRY/FOSS
AR	N3309.730	W11536.785	11S13E34N	D.TILE GENTRY/FOSS
AS	N3309.815	W11536.820	11S13E33R	C.VAIL4 GENTRY/FOSS
AT	N3310.160	W11536.785	11S13E34E	D.VAIL4 GENTRY/MCKEN
AU	N3310.160	W11536.825	11S13E33H	C.VAIL4 GENTRY/MCKEN
AV	N3308.865	W11537.305	12S13E04Q	D.VAIL4A BOYLE/LINDS
AW	N3308.880	W11537.325	12S13E04P	C.VAIL4A BOYLE/LINDS
AX	N3312.200	W11536.540	11S13E22D	S.SALTON RED HILL BR
AY				BLANK DISTILLED WTR
AZ	N3310.580	W11537.295	11S13E33B	D.PUMICE BOYLE/SINCL
BA	N3310.135	W11537.285	11S13E33K	SUMP9 BOYLE/MCKENDRY
BB	N3310.160	W11537.325	11S13E33L	C.VAIL4A BOYLE/MCKEN
BC	N3310.560	W11537.810	11S13E33D	SUMP45 SEVERE/MCKEND
BD	N3309.285	W11537.305	12S13E04F	SUMP116 BOYLE/KUNS
BE	N3308.390	W11537.290	12S13E09K	SUMP120 BOYLE S LIND
BF	N3310.130	W11536.780	11S13E34M	SUMP15 GENTRY/MCKEND
BG	N3309.745	W11537.305	11S13E33Q	D.VAIL4A BOYLE/FOSS
BH	N3308.820	W11537.290	12S13E09B	SUMP82 BOYLE/LINDSEY
BI	N3310.130	W11537.810	11S13E33M	SUMP42 SEVERE/KUNS
BJ	N3310.300	W11537.855	12S13E04D	SUMP43 SEVERE/FOSS
BK	N3241.845	W11516.825	17S15W01Q	C.EASTHL R98 NR BORN
BL	N3300.273	W11531.535	13S14E21K	R.NEW R111 N BRAWLEY
BM	N3310.160	W11537.825	11S13E33G	D.VAIL4A BOYLE/MCKEN
BN	N3309.800	W11536.855	11S13E33R	POND ERDA/SDGE SETTL
BO	N3309.800	W11536.925	11S13E33R	POND ERDA/SDGE SPRAY
BP	N3309.800	W11536.975	11S13E33R	POND ERDA/SDGE BRINE
BQ	N3309.95	W11537.333	11S13E33K	D.VAIL4A BOYLE S FOS
BR	N3311.02	W11539.333	11S13E30K	S.SALTON OFFSHORE
BS	N3310.160	W11538.880	11S13E31H	S.SALTON SHORE/LACK
CA	N3300.045	W11533.615	13S14E19Q	C.SPRUCE BRANDT/FRED
CB	N3300.325	W11532.595	13S14E20G	SUMP238 HOVLEY S AND
CC	N3300.325	W11532.568	13S14E20G	D.SPRUCE1 HOV S ANDR
CD	N3300.617	W11532.605	13S14E17Q	SUMP89 HOVLEY/ANDRE
CE	N3300.617	W11532.576	13S14E17Q	D.SPRUCE3 HOVL/ANDRE
CF	N3300.331	W11531.418	13S14E21H	D.SPRUCE1 NEW DROP3
CG	N3300.617	W11531.265	13S14E16R	D.SPRUCE3 NEW ANDRE
CH	N3301.174	W11531.267	13S14E09R	D.SPRUCE NEW BAUGHM
CJ	N3301.187	W11533.075	13S14E08N	D.SPRUCE W HOVL BAUG
CK	N3301.767	W11532.077	13S14E04N	C.SPRUCE5 NR HOV/RUT
CL	N3301.924	W11531.540	13S14E04Q	R.NEW N RUTH/R111 BR

Table III-1. (Concluded)

SITE-CODE*	LATITUDE*	LONGITUDE*	TOWN/RANGE	FREE-COMMENT-FIELD**
CM	N3301.764	W11531.267	13S14E04R	D.BEST NEW RUTHERFO
CN	N3301.787	W11531.035	13S14E03N	C.ROCKWOOD JEFF/RUTH
CP	N3300.906	W11530.491	13S14E15G	SUMP192 BEST NR WARD
CQ	N3300.906	W11530.491	13S14E15G	D.BEST BEST NR WARD
CR	N3300.620	W11531.022	13S14E15N	D.LIVESLEY NEW/WARD
CS	N3300.046	W11530.491	13S14E22Q	C.BEST BEST/SHANK
CT	N3301.80	W11530.50	13S14E11N	SUMP289 BEST S RUTHE
CU	N3301.80	W11530.52	13S14E10R	C.BEST BEST S RUTHER
CV	N3257.383	W11533.98	14S14E05N	C.ROCKWOOD R86/ME/D
EA	N3241.162	W11527.207	17S15E08K	C.CENT MAIN R98/RITT
EB	N3241.656	W11530.606	17S14E02P	CBEECH COLE/PRUETT
EC	N3241.954	W11531.443	17S14E03K	SUMP108 WARE N COLE
ED	N3242.094	W11534.190	17S14E06H	C.BEECH W CLARK S WL
EE	N3242.500	W11533.559	17S14E05C	D.BEECH CLARK/WILLOU
EF	N3242.939	W11531.465	16S14E33J	SUMP273 WARE N JASPR
EG	N3243.378	W11532.480	16S14E32A	SUMP321 FAWC W DOGWD
EH	N3242.949	W11532.992	16S14E32L	SUMP397 CORFM N WIL0
EI	N3242.964	W11534.090	16S14E31M	SUMP137 W CLRK S WAH
EJ	N3244.730	W11534.111	16S14E19E	D.DATE E LBRUC S MCC
EK	N3244.267	W11533.535	16S14E30B	C.DATE CLARK/CORRELL
EL	N3244.258	W11532.539	16S14E29B	D.DATE3 FARNSW/CORRL
EM	N3244.258	W11532.518	16S14E29B	C.DOGWOOD2 FARNS/COR
EN	N3244.258	W11532.139	16S14E29B	SUMP88 FARNSW/CORREL
EO	N3244.240	W11532.004	16S14E28D	C.DOGWOOD DOGWD/CORL
EP	N3244.272	W11531.010	16S14E22N	C.DAFFODIL PITZ/CORL
ER	N3242.609	W11534.580	16S13E36R	C.DAHLIA LBRUC NR WL
ES	N3243.817	W11533.00	16S14E29L	SUMP264 R86/CORFMAN
ET	N3243.383	W11533.00	16S14E32C	SUMP323 CORFMN S R86
EU	N3242.475	W11531.98	17S14E03D	SUMP375 DOGWD/WILLOU
GA	N3249.404	W11516.996	15S16E26A	C.EASTHL S NOR/EHL16
GB	N3249.043	W11516.953	15S16E26J	D.EHL14 S NOR W EHL
GC	N3249.078	W11518.662	15S16E27E	D.HLTVLMAIN EHL14 D
GD	N3248.609	W11516.879	15S16E35A	D.HLTVLMAIN EHL13 C
GE	N3247.742	W11516.744	16S16E01D	D.HLTVL2C EHL11 C
GF	N3246.838	W11517.549	16S16E11C	D.WARREN S80/GRAESER
GG	N3246.060	W11516.309	16S16E12P	D.WARREN S80/18
GH	N3246.060	W11516.260	16S16E12Q	C.EASTHL S80/18
GI	N3247.070	W11515.176	16S17E06Q	SLOUGH 6-2 EAST MESA
GJ	N3247.558	W11518.575	16S16E03C	W.DATE CITY STORE
GK	N3245.967	W11518.133	16S16E15B	W.OLD ALAMO SCHOOL
GL	N3248.192	W11516.517	15S16E36F	SUMP NUSSBAUM OGROVE
GM	N3248.667	W11520.183	15S16E29Q	W.AMERICO FUSI
GN	N3248.667	W11521.35	15S16E30Q	W.AMERICO FUSI JR
GO	N3250.567	W11518.533	15S16E15P	W.RS GARWELL
IA	N3310.16	W11537.825	11S13E33G	ISCO SET / SITE BM
IB	N3309.95	W11537.333	11S13E33K	ISCO SET / SITE BQ
00				DUMMY FILLER

III-13

Table III-2. Locations of water-sampling sites in Imperial Valley.
This list is ordered by Township/Range/Section/Subsection.

SITE-CODE*	LATITUDE*	LONGITUDE*	TOWN/RANGE	FREE-COMMENT-FIELD**
AX	N3312.200	W11536.540	11S13E22D	S.SALTON RED HILL BR
AK	N3311.930	W11535.770	11S13E23E	R.ALAMO GARST RD BR
BR	N3311.02	W11539.333	11S13E30K	S.SALTON OFFSHORE
BS	N3310.160	W11538.880	11S13E31H	S.SALTON SHORE/LACK
AZ	N3310.580	W11537.295	11S13E33B	D.PUMICE BOYLE/SINCL
BC	N3310.560	W11537.810	11S13E33D	SUMP45 SEVERE/MCKEND
BM	N3310.160	W11537.825	11S13E33G	D.VAIL4A BOYLE/MCKEN
IA	N3310.16	W11537.825	11S13E33G	ISCO SET / SITE BM
AU	N3310.160	W11536.825	11S13E33H	C.VAIL4 GENTRY/MCKEN
AF	N3309.950	W11537.305	11S13E33K	D.VAIL4A BOYLE S.MCK
BA	N3310.135	W11537.285	11S13E33K	SUMP9 BOYLE/MCKENDRY
BQ	N3309.95	W11537.333	11S13E33K	D.VAIL4A BOYLE S FOS
IB	N3309.95	W11537.333	11S13E33K	ISCO SET / SITE BQ
BB	N3310.160	W11537.325	11S13E33L	C.VAIL4A BOYLE/MCKEN
BI	N3310.130	W11537.810	11S13E33M	SUMP42 SEVERE/KUNS
BG	N3309.745	W11537.305	11S13E33Q	D.VAIL4A BOYLE/FOSS
AS	N3309.815	W11536.820	11S13E33R	C.VAIL4 GENTRY/FOSS
BN	N3309.800	W11536.855	11S13E33R	POND ERDA/SDGE SETT
BO	N3309.800	W11536.925	11S13E33R	POND ERDA/SDGE SPRAY
BP	N3309.800	W11536.975	11S13E33R	POND ERDA/SDGE BRINE
AT	N3310.160	W11536.785	11S13E34E	D.VAIL4 GENTRY/MCKEN
BF	N3310.130	W11536.780	11S13E34M	SUMP15 GENTRY/MCKEND
AQ	N3309.730	W11536.785	11S13E34N	D.VAIL4 GENTRY/FOSS
AR	N3309.730	W11536.785	11S13E34N	D.TILE GENTRY/FOSS
AO	N3308.865	W11536.785	12S13E03N	D.VAIL4 GENTRY/LINDS
BJ	N3310.300	W11537.855	12S13E04D	SUMP43 SEVERE/FOSS
AE	N3309.300	W11537.325	12S13E04F	C.VAIL4A BOYLE/KUNS
BD	N3309.285	W11537.305	12S13E04F	SUMP116 BOYLE/KUNS
AD	N3309.300	W11537.305	12S13E04G	D.VAIL4A BOYLE/KUNS
AW	N3308.880	W11537.325	12S13E04P	C.VAIL4A BOYLE/LINDS
AV	N3308.865	W11537.305	12S13E04Q	D.VAIL4A BOYLE/LINDS
AP	N3308.865	W11536.825	12S13E04R	C.VAIL4 GENTRY/LINDS
BH	N3308.820	W11537.290	12S13E09B	SUMP82 BOYLE/LINDSEY
BE	N3308.390	W11537.290	12S13E09K	SUMP120 BOYLE S LIND
AB	N3307.995	W11536.835	12S13E09R	C.VAIL4 GENTRY/YOUNG
AC	N3307.995	W11536.800	12S13E10N	D.VAIL4 GENTRY/YOUNG
AA	N3306.240	W11534.230	12S13E24P	C.VAIL VAIL E.BRANDT
AL	N3305.985	W11538.660	12S13E29E	R.NEW LACK RD BR
CN	N3301.787	W11531.035	13S14E03N	C.ROCKWOOD JEFF/RUTH
CK	N3301.767	W11532.077	13S14E04N	C.SPRUCE5 NR HOV/RUT
CL	N3301.924	W11531.540	13S14E04Q	R.NEW N RUTH/R111 BR
CM	N3301.764	W11531.267	13S14E04R	D.BEST NEW RUTHERFO
CJ	N3301.187	W11533.075	13S14E08N	D.SPRUCE W HOVL BAUG
CH	N3301.174	W11531.267	13S14E09R	D.SPRUCE NEW BAUGHM
CU	N3301.80	W11530.52	13S14E10R	C.BEST BEST S RUTHER
CT	N3301.80	W11530.50	13S14E11N	SUMP289 BEST S RUTHE
CP	N3300.906	W11530.491	13S14E15G	SUMP192 BEST NR WARD
CQ	N3300.906	W11530.491	13S14E15G	D.BEST BEST NR WARD
CR	N3300.620	W11531.022	13S14E15N	D.LIVESLEY NEW/WARD
CG	N3300.617	W11531.265	13S14E16R	D.SPRUCE3 NEW ANDRE
CD	N3300.617	W11532.605	13S14E17Q	SUMP89 HOVLEY/ANDRE
CE	N3300.617	W11532.576	13S14E17Q	D.SPRUCE3 HOVL/ANDRE
CA	N3300.045	W11533.615	13S14E19Q	C.SPRUCE BRANDT/FRED
CB	N3300.325	W11532.595	13S14E20G	SUMP238 HOVLEY S AND
CC	N3300.325	W11532.568	13S14E20G	D.SPRUCE1 HOV S ANDR
CF	N3300.331	W11531.418	13S14E21H	D.SPRUCE1 NEW DROP3

Table III-2. (Concluded)

SITE-CODE*	LATITUDE*	LONGITUDE*	TOWN/RANGE	FREE-COMMENT-FIELD**
AN	N3300.470	W11531.310	13S14E21J	R.NEW DROP3 N BRAWLY
BL	N3300.273	W11531.535	13S14E21K	R.NEW R111 N BRAWLEY
CS	N3300.046	W11530.491	13S14E22Q	C.BEST BEST/SHANK
AM	N3258.725	W11527.960	13S15E31E	R.ALAMO R78 E BRAWLY
CV	N3257.383	W11533.98	14S14E05N	C.ROCKWOOD R86/MEAD
GO	N3250.567	W11518.533	15S16E15P	W.RS GARWELL
GA	N3249.404	W11516.996	15S16E26A	C.EASTHL S NOR/EHL16
GB	N3249.043	W11516.953	15S16E26J	D.EHL14 S NOR W EHL
GC	N3249.078	W11518.662	15S16E27E	D.HLTVLMAIN EHL14 D
GM	N3248.667	W11520.183	15S16E29Q	W.AMERICO FUSI
GN	N3248.667	W11521.35	15S16E30Q	W.AMERICO FUSI JR
GD	N3248.609	W11516.879	15S16E35A	D.HLTVLMAIN EHL13 C
GL	N3248.192	W11516.517	15S16E36F	SUMP NUSSBAUM OGROVE
ER	N3242.609	W11534.580	16S13E36R	C.DAHLIA LBRUC NR WL
EJ	N3244.730	W11534.111	16S14E19E	D.DATE E LBRUC S MCC
EP	N3244.272	W11531.010	16S14E22N	C.DAFFODIL PITZ/CORL
EO	N3244.240	W11532.004	16S14E28D	C.DOGWOOD DOGWD/CORL
EL	N3244.258	W11532.539	16S14E29B	D.DATE3 FARNSW/CORRL
EM	N3244.258	W11532.518	16S14E29B	C.DOGWOOD2 FARNS/COR
EN	N3244.258	W11532.139	16S14E29B	SUMP88 FARNSW/CORREL
ES	N3243.817	W11533.00	16S14E29L	SUMP264 R86/CORFMAN
EK	N3244.267	W11533.535	16S14E30B	C.DATE CLARK/CORRELL
EI	N3242.964	W11534.090	16S14E31M	SUMP137 W CLRK S WAH
EG	N3243.378	W11532.480	16S14E32A	SUMP321 FAWC W DOGWD
ET	N3243.383	W11533.00	16S14E32C	SUMP323 CORFMN S R86
EH	N3242.949	W11532.992	16S14E32L	SUMP397 CORFM N WIL0
EF	N3242.939	W11531.465	16S14E33J	SUMP273 WARE N JASPR
GE	N3247.742	W11516.744	16S16E01D	D.HLTVL2C EHL11 C
GJ	N3247.558	W11518.575	16S16E03C	W.DATE CITY STORE
GF	N3246.838	W11517.549	16S16E11C	D.WARREN S80/GRAESER
GG	N3246.060	W11516.309	16S16E12P	D.WARREN S80/18
GH	N3246.060	W11516.260	16S16E12Q	C.EASTHL S80/18
GK	N3245.967	W11518.133	16S16E15B	W.OLD ALAMO SCHOOL
GI	N3247.070	W11515.176	16S17E06Q	SLOUGH 6-2 EAST MESA
AG	N3242.800	W11456.530	16S20E31Q	C.ALL AMERICAN DROP1
EB	N3241.656	W11530.606	17S14E02P	CBEECH COLE/PRUETT
EU	N3242.475	W11531.98	17S14E03D	SUMP375 DOGWD/WILLOU
EC	N3241.954	W11531.443	17S14E03K	SUMP108 WARE N COLE
EE	N3242.500	W11533.559	17S14E05C	D.BEECH CLARK/WILLOU
ED	N3242.094	W11534.190	17S14E06H	C.BEECH W CLARK S WL
A:	N3239.965	W11530.155	17S14E14Q	R.NEW AT BORDER
AJ	N3239.965	W11530.155	17S14E14Q	R.NEW AT BORDER
EA	N3241.162	W11527.207	17S15E08K	C.CENT MAIN R98/RITT
BK	N3241.845	W11516.825	17S15W01Q	C.EASTHL R98 NR BORN
AH	N3240.520	W11522.145	17S16E18C	R.ALAMO AT BORDER
AY				BLANK DISTILLED WTR
00				DUMMY FILLER

Table III-3. List of baseline water samples collected through February 1977. Results for all field measurements and presently available chemical analyses are also given. The list is ordered by the two-character Site Code.

1 SAMPLES: WAA										LATITUDE : N3306.240	
SITE: AA		C.VAIL VAIL E.BRANDT								LONGITUDE : W11534.230	
TYPE: •		FIELD DATA								TOWN/RANGE: 12S13E24P	
PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113									
TIME	HMMSS	1345									
TEMP-SOURCE	DEG. C	11.70									
PH		8.00									
CON-STANDARD	UMHO/CM	1370.00									

SAMPLES: WAA										LATITUDE : N3306.240	
SITE: AA		C.VAIL VAIL E.BRANDT								LONGITUDE : W11534.230	
TYPE: 2		FILTERED-UNACIDIFIED								TOWN/RANGE: 12S13E24P	
PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113									
TIME	HMMSS	1345									
TDS	PPM	910.00									

Table III-3. (Continued)

1 SAMPLES: HAA
 SITE: AA C.VAIL VAIL E.BRANDT
 TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3306.240
 LONGITUDE : W11534.230
 TOWN/RANGE: 12S13E24P

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113									
TIME	HMMSS	1345									
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.05									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	15.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	0.02									
IRON	PPM	0.40									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	6.00									
MANGANESE	PPM	< 0.01									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	1.00									
SILVER	PPM	0.01									
SODIUM	PPM	25.00									
STRONTIUM	PPM	0.60									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

SAMPLES: HAB
 SITE: AB C.VAIL4 GENTRY/YOUNG
 TYPE: * FIELD DATA

LATITUDE : N3307.995
 LONGITUDE : W11536.835
 TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219	760225	760316	760405	760428	760518	760609	760714	760825
TIME	HMMSS	1500	0920	1400	0900	1545	1145	0945	1345	1525	0830
TEMP-SOURCE	DEG. C	11.40	15.80	18.30	16.60	19.40	21.50	25.80	26.50	25.50	28.40
PH		8.10	8.50	8.20	7.70	8.20	7.80	8.00	8.30	8.50	8.10
CON-STANDARD	UMHO/CM	1320.00		1651.00	15010.00	1323.00	1195.00	1513.00	1492.00	1413.00	1028.00

Table III-3. (Continued)

I SAMPLES: WAB
 SITE: AB C.VAIL4 GENTRY/YOUNG
 TYPE: * FIELD DATA

LATITUDE : N3307.995
 LONGITUDE : W11536.835
 TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760927		761027	761111	761213	770114	770220			
TIME	HMMSS	1445		1535	1215	1450	1345	1310			
TEMP-SOURCE	DEG. C	28.60		19.80	19.10	11.78	11.50	18.00			
PH		8.55		8.50	8.30	8.19	8.20	7.50			
CON-STANDARD	UMHO/CM	1481.00		1395.00	1587.00	1598.50	2580.00	4069.00			

SAMPLES: WAB
 SITE: AB C.VAIL4 GENTRY/YOUNG
 TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3307.995
 LONGITUDE : W11536.835
 TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219	760225	760316	760405	760428	760518	760609	760714	760825
TIME	HMMSS	1500	0920	1400	0900	1545	1145	0945	1345	1525	0830
ARSENIC	PPM			0.00							
BARIUM	PPM			0.12							
BORON	PPM			0.35							
CADMIUM	PPM			0.00							
COBALT	PPM			< 0.01							
COPPER	PPM			0.13							
IRON	PPM			0.85							
LEAD	PPM			0.03							
MANGANESE	PPM			0.06							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
SELENIUM	PPM			< 0.00							
ZINC	PPM			0.58							

Table III-3. (Continued)

1 SAMPLES: WAB
 SITE: AB C.VAIL4 GENTRY/YOUNG
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3307.995
 LONGITUDE : W11536.835
 TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219	760225	760316	760405	760428	760518	760609	760714	760825
TIME	HHMMSS	1500	0920	1400	0900	1545	1145	0945	1345	1525	0830
PH				8.27							
NITRATE	PPM			2.35							
SULFATE	PPM			373.33	347.00	334.00					
TDS	PPM	880.00		1070.67	840.00	772.00					
AMMONIUM	PPM			< 0.12							
BICARBONATE	PPM			156.00	145.00	155.00					
BORON	PPM			0.32	0.14	0.22					
CARBONATE	PPM			14.70	< 2.50	< 2.50					
CHLORIDE	PPM			196.33	145.00	135.00					
FLUORINE	PPM			0.50							

Table III-3. (Continued)

1 SAMPLES: WAB

SITE: AB

TYPE: 4

C.VAIL4 GENTRY/YOUNG

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3307.995

LONGITUDE : W11536.835

TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219	760225	760316	760405	760428	760518	760609	760714	760825
TIME	HHMMSS	1500	0920	1400	0900	1545	1145	0945	1345	1525	0830
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BARIUM	PPM			< 1.00							
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.05									
CADMIUM	PPM	< 0.02		< 0.05							
CALCIUM	PPM	20.00		92.00							
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01		< 0.10							
COPPER	PPM			< 0.05							
CUPRIC	PPM	0.02									
IRON	PPM	0.60		< 0.05							
LEAD	PPM	< 0.07		< 0.50							
LITHIUM	PPM			0.06							
MAGNESIUM	PPM	15.00		36.20							
MANGANESE	PPM	< 0.01		< 0.05							
MERCURY	PPM			< 0.00							
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07		< 0.10							
NIOBIUM	PPM	< 0.20									
POTASSIUM	PPM			4.30							
RUBIDIUM	PPM			< 0.10							
SILICON	PPM	1.00									
SILVER	PPM	< 0.01									
SODIUM	PPM	25.00		199.00							
STRONTIUM	PPM	0.40									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07		< 0.05							
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAB

SITE: AB

TYPE: 6

C.VAIL4 GENTRY/YOUNG

FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3307.995

LONGITUDE : W11536.835

TOWN/RANGE: 12S13E09R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219	760225	760316	760405	760428	760518	760609	760714	760825
TIME	HMMSS	1500	0920	1400	0900	1545	1145	0945	1345	1525	0830
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10	0.08	0.07					
CADMIUM	PPM			< 0.00							
CALCIUM	PPM			101.00	105.00	100.00					
COBALT	PPM			< 0.01							
COPPER	PPM			0.00							
IRON	PPM			0.03							
LEAD	PPM			0.00							
LITHIUM	PPM			0.10	0.10	0.10					
MAGNESIUM	PPM			30.25	24.00	29.00					
MANGANESE	PPM			0.01							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			6.50	5.00	5.00					
RUBIDIUM	PPM			< 0.02	< 0.02	< 0.02					
SELENIUM	PPM			< 0.00		1.50					
SODIUM	PPM			205.00	165.00	145.00					
STRONTIUM	PPM				1.20						
ZINC	PPM			0.02	0.03	0.02					

SAMPLES: WAC

SITE: AC

TYPE: *

D.VAIL4 GENTRY/YOUNG

FIELD DATA

LATITUDE : N3307.995

LONGITUDE : W11536.800

TOWN/RANGE: 12S13E10N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113			760316	760406	760428	760518	760609	760714	760825
TIME	HMMSS	1530			0935	0930	1300	1035	1410	1600	0925
TEMP-SOURCE	DEG. C	18.00			20.70	17.10	29.50	26.20	33.20	39.10	25.40
PH		8.10			7.30	7.60	8.05	7.60	7.60	8.50	7.56
CON-STANDARD	UMHO/CM	4000.00			5471.00	3560.00	6540.00	6968.00	1556.00	3832.00	2974.00

Table III-3. (Continued)

1 SAMPLES: WAC
 SITE: AC D.VAIL4 GENTRY/YOUNG
 TYPE: • FIELD DATA

LATITUDE : N3307.995
 LONGITUDE : W11536.800
 TOWN/RANGE: 12S13E10N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760927		761027	761111	761213	770114	770220			
TIME	HHMMSS	1545		1555	1230	1510	1355	1245			
TEMP-SOURCE	DEG. C	32.55		22.20	24.00	14.35	19.80	24.50			
PH		8.01		8.40	8.20	7.75	8.60	8.20			
CON-STANDARD	UMHO/CM	7188.00		9481.00	5865.00	1937.00	6362.00	5148.00			

SAMPLES: WAC
 SITE: AC D.VAIL4 GENTRY/YOUNG
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3307.995
 LONGITUDE : W11536.800
 TOWN/RANGE: 12S13E10N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113			760316	760406	760428	760518	760609	760714	760825
TIME	HHMMSS	1530			0935	0930	1300	1035	1410	1600	0925
SULFATE	PPM				1086.00	884.00					
TDS	PPM	2820.00			3924.00	2342.00					
BICARBONATE	PPM				300.00	250.00					
BORON	PPM				0.75	0.60					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				1220.00	510.00					

Table III-3. (Continued)

1 SAMPLES: WAC
SITE: AC
TYPE: 4

D.VAIL4 GENTRY/YOUNG
FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3307.995
LONGITUDE : W11536.800
TOWN/RANGE: 12S13E10N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113			760316	760406	760428	760518	760609	760714	760825
TIME	HMMSS	1530			0935	0930	1300	1035	1410	1600	0925
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.20									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	80.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	0.01									
IRON	PPM	0.80									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	30.00									
MANGANESE	PPM	0.20									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	2.00									
SILVER	PPM	< 0.01									
SODIUM	PPM	80.00									
STRONTIUM	PPM	2.00									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAC
 SITE: AC D.VAIL4 GENTRY/YOUNG
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3307.995
 LONGITUDE : W11536.800
 TOWN/RANGE: 12S13E10N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113			760316	760406					
TIME	HHMMSS	1530			0935	0930	760428 1300	760518 1035	760609 1410	760714 1600	760825 0925
BARIUM	PPM				0.10	0.10					
CALCIUM	PPM				346.00	200.00					
LITHIUM	PPM				0.20	0.20					
MAGNESIUM	PPM				107.00	88.00					
POTASSIUM	PPM				14.00	8.00					
RUBIDIUM	PPM				0.06	< 0.02					
SODIUM	PPM				825.00	475.00					
STRONTIUM	PPM				4.40	3.30					
ZINC	PPM				0.01	0.01					

SAMPLES: WAD
 SITE: AD D.VAIL4A BOYLE/KUNS
 TYPE: • FIELD DATA

LATITUDE : N3309.300
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E04G

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219								
TIME	HHMMSS	1610	1350								
TEMP-SOURCE	DEG. C	17.50	24.80								
PH		8.10	8.50								
CON-STANDARD	UMHO/CM	4730.00									

SAMPLES: WAD
 SITE: AD D.VAIL4A BOYLE/KUNS
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3309.300
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E04G

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219								
TIME	HHMMSS	1610	1350								
TDS	PPM	3470.00									

1 SAMPLES: WAD
SITE: AD D.VAIL4A BOYLE/KUNS
TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3309.300
LONGITUDE : W11537.305
TOWN/RANGE: 12S13E04G

[illegible]

III-24

SAMPLES: WAE
SITE: AE C.VAIL4A BOYLE/KUNS
TYPE: • FIELD DATA

LATITUDE : N3309.300
LONGITUDE : W11537.325
TOWN/RANGE: 12S13E04F

[illegible]

Table III-3. (Continued)

1 SAMPLES: WAE
SITE: AE C.VAIL4A BOYLE/KUNS
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3309.300
LONGITUDE : W11537.325
TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113									
TIME	HHMMSS	1635									
TDS	PPM	940.00									

SAMPLES: WAE
SITE: AE C.VAIL4A BOYLE/KUNS
TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3309.300
LONGITUDE : W11537.325
TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113									
TIME	HHMMSS	1635									
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BARIUM	PPM	0.06									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.03									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	40.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	0.02									
IRON	PPM	0.02									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	15.00									
MANGANESE	PPM	< 0.01									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	0.60									
SILVER	PPM	< 0.01									
SODIUM	PPM	25.00									
STRONTIUM	PPM	1.00									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAF
SITE: AF D.VAIL4A BOYLE S.MCK
TYPE: * FIELD DATA

LATITUDE : N3309.950
LONGITUDE : W11537.305
TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219								
TIME	HHMMSS	1715	1317								
TEMP-SOURCE	DEG. C	9.50	25.00								
PH		8.60	8.10								
CON-STANDARD	UMHO/CM	4690.00									

SAMPLES: WAF
SITE: AF D.VAIL4A BOYLE S.MCK
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3309.950
LONGITUDE : W11537.305
TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760113	760219								
TIME	HHMMSS	1715	1317								
TDS	PPM	3050.00									

1 SAMPLES: WAF 651

LATITUDE : N3309.950
LONGITUDE : W11537.305
TOWN/RANGE: 11S13E33K

[illegible]

III-27

SAMPLES: WAG
SITE: AG C.ALL AMERICAN DROP
TYPE: • FIELD DATA

LATITUDE : N3242.800
LONGITUDE : W11456.530
TOWN/RANGE: 16S20E31Q

[illegible]

Table III-3. (Continued)

1 SAMPLES: WAG

SITE: AG

TYPE: 2

C.ALL AMERICAN DROP1

FILTERED-UNACIDIFIED

LATITUDE : N3242.800

LONGITUDE : W11456.530

TOWN/RANGE: 16S20E31Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114									
TIME	HHMMSS	0945									
TDS	PPM	1120.00									

SAMPLES: WAG

SITE: AG

TYPE: 4

C.ALL AMERICAN DROP1

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3242.800

LONGITUDE : W11456.530

TOWN/RANGE: 16S20E31Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114									
TIME	HHMMSS	0945									
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BARIUM	PPM	< 0.06									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.02									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	60.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	0.02									
IRON	PPM	< 0.02									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	15.00									
MANGANESE	PPM	< 0.01									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	0.60									
SILVER	PPM	< 0.01									
SODIUM	PPM	25.00									
STRONTIUM	PPM	0.60									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAH
SITE: AH
TYPE: *

R.ALAMO AT BORDER
FIELD DATA

LATITUDE : N3240.520
LONGITUDE : W11522.145
TOWN/RANGE: 17S16E18C

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114					760427		760608		
TIME	HHMMSS	1100					1100		1245		
TEMP-SOURCE	DEG. C	14.00					21.00		22.20		
PH		8.00					7.60		7.60		
CON-STANDARD	UMHO/CM	4850.00					5436.00		2303.00		

SAMPLES: WAH
SITE: AH
TYPE: *

R.ALAMO AT BORDER
FIELD DATA

LATITUDE : N3240.520
LONGITUDE : W11522.145
TOWN/RANGE: 17S16E18C

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761028	761109		770111	770218			
TIME	HHMMSS	1020		0950	1325		1445	1630			
TEMP-SOURCE	DEG. C	24.35		18.90	21.20		18.40	24.30			
PH		8.14		7.90	7.80		7.95	7.20			
CON-STANDARD	UMHO/CM	4496.00		3986.00	4438.00		11520.00	6183.00			

SAMPLES: WAH
SITE: AH
TYPE: 2

R.ALAMO AT BORDER
FILTERED-UNACIDIFIED

LATITUDE : N3240.520
LONGITUDE : W11522.145
TOWN/RANGE: 17S16E18C

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114					760427		760608		
TIME	HHMMSS	1100					1100		1245		
TDS	PPM	3290.00									

1 SAMPLES: WAI
SITE: AI R.NEW AT BORDER
TYPE: • FIELD DATA

LATITUDE : N3239.965
LONGITUDE : W11530.155
TOWN/RANGE: 17S14E14Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114					760427		760608	760715	
TIME	HHMMSS	1200					0845		1330	1400	
TEMP-SOURCE	DEG. C	14.40					24.00		25.90	31.50	
PH		7.90					7.60		7.50	7.80	
CON-STANDARD	UMHO/CM	6450.00					6000.00		9346.00	8915.00	

SAMPLES: WAI
SITE: AI R.NEW AT BORDER
TYPE: • FIELD DATA

LATITUDE : N3239.965
LONGITUDE : W11530.155
TOWN/RANGE: 17S14E14Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761028	761109			770216			
TIME	HHMMSS	0800		0820	1500			0830			
TEMP-SOURCE	DEG. C	25.35		18.60	20.80			16.10			
PH		7.79		7.40	7.40			6.85			
CON-STANDARD	UMHO/CM	6687.00		6594.00	7097.00			7289.00			

III-30

SAMPLES: WAI
SITE: AI R.NEW AT BORDER
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3239.965
LONGITUDE : W11530.155
TOWN/RANGE: 17S14E14Q

[illegible]

Table III-3. (Continued)

1 SAMPLES: WAK
SITE: AK
TYPE: *

R.ALAMO GARST RD BR
FIELD DATA

LATITUDE : N3311.930
LONGITUDE : W11535.770
TOWN/RANGE: 11S13E23E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HMMSS	1600	1430		1120		0900		0945	1030	
TEMP-SOURCE	DEG. C	14.00	13.50		16.50		20.50		23.90	28.90	
PH		7.90	7.80		7.65		7.60		7.75	7.70	
CON-STANDARD	UMHO/CM	4700.00	4210.00		3670.00		3435.00		4088.00	4516.00	

SAMPLES: WAK
SITE: AK
TYPE: *

R.ALAMO GARST RD BR
FIELD DATA

LATITUDE : N3311.930
LONGITUDE : W11535.770
TOWN/RANGE: 11S13E23E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	761001		761027	761108	761211	770110	770217			
TIME	HMMSS	0800		1640	1350	1245	1150	1515			
TEMP-SOURCE	DEG. C	24.90		19.10	19.40	11.80	10.40	16.80			
PH		7.72		7.70	7.70	7.71	7.60	7.05			
CON-STANDARD	UMHO/CM	4105.00		4365.00	4786.00	4583.00	6422.00	5856.00			

SAMPLES: WAK
SITE: AK
TYPE: 2

R.ALAMO GARST RD BR
FILTERED-UNACIDIFIED

LATITUDE : N3311.930
LONGITUDE : W11535.770
TOWN/RANGE: 11S13E23E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HMMSS	1600	1430		1120		0900		0945	1030	
SULFATE	PPM				804.00						
TDS	PPM	3320.00			2290.00						
BICARBONATE	PPM				205.00						
BORON	PPM				0.69						
CARBONATE	PPM				< 2.50						
CHLORIDE	PPM				590.00						

Table III-3. (Continued)

1 SAMPLES: WAK
 SITE: AK R.ALAMO GARST RD BR
 TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3311.930
 LONGITUDE : W11535.770
 TOWN/RANGE: 11S13E23E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HHMMSS	1600	1430		1120		0900		0945	1030	
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BARIUM	PPM	< 0.06									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.10									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	80.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	0.02									
IRON	PPM	0.02									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	30.00									
MANGANESE	PPM	0.02									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	0.80									
SILVER	PPM	< 0.01									
SODIUM	PPM	150.00									
STRONTIUM	PPM	2.00									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAK
SITE: AK
TYPE: 6

R. ALAMO GARST RD BR
FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3311.930
LONGITUDE : W11535.770
TOWN/RANGE: 11S13E23E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HHMMSS	1600	1430		1120		0900		0945	1030	
BARIUM	PPM				0.10						
CALCIUM	PPM				185.00						
LITHIUM	PPM				0.20						
MAGNESIUM	PPM				74.00						
POTASSIUM	PPM				15.00						
RUBIDIUM	PPM				< 0.02						
SODIUM	PPM				495.00						
STRONTIUM	PPM				3.50						
ZINC	PPM				0.01						

SAMPLES: WAL
SITE: AL
TYPE: *

R. NEW LACK RD BR
FIELD DATA

LATITUDE : N3305.985
LONGITUDE : W11538.660
TOWN/RANGE: 12S13E29E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HHMMSS	1650	1330		1255		1035		1305	0930	
TEMP-SOURCE	DEG. C	13.00	15.30		18.00		20.00		25.00	28.50	
PH		7.70	7.50		7.40		7.60		7.65	7.78	
CON-STANDARD	UMHO/CM	5120.00	6040.00		5522.00		5292.00		6245.00	5831.00	

SAMPLES: WAL
SITE: AL
TYPE: *

R. NEW LACK RD BR
FIELD DATA

LATITUDE : N3305.985
LONGITUDE : W11538.660
TOWN/RANGE: 12S13E29E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761027	761108	761211		770217			
TIME	HHMMSS			1725	1445	1345		1340			
TEMP-SOURCE	DEG. C			19.90	20.10	12.90		17.30			
PH				7.55	7.65	7.55		6.50			
CON-STANDARD	UMHO/CM			5569.00	6209.00	7214.00		7324.00			

Table III-3. (Continued)

1 SAMPLES: WAL
 SITE: AL R.NEW LACK RD BR
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3305.985
 LONGITUDE : W11538.660
 TOWN/RANGE: 12S13E29E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HHMMSS	1650	1330		1255		1035		1305	0930	
SULFATE	PPM				831.00						
TDS	PPM	3580.00			3384.00						
BICARBONATE	PPM				235.00						
BORON	PPM				1.19						
CARBONATE	PPM				< 2.50						
CHLORIDE	PPM				1220.00						

SAMPLES: WAL
 SITE: AL R.NEW LACK RD BR
 TYPE: 4 FILTERED-ACIDIFIED WITH HN03 (5 ML 1:1)

LATITUDE : N3305.985
 LONGITUDE : W11538.660
 TOWN/RANGE: 12S13E29E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HHMMSS	1650	1330		1255		1035		1305	0930	
ALUMINUM	PPM	< 0.01									
BORON	PPM	0.20									
CALCIUM	PPM	80.00									
CUPRIC	PPM	0.01									
IRON	PPM	0.02									
MAGNESIUM	PPM	25.00									
MANGANESE	PPM	0.07									
SILICON	PPM	0.80									
SILVER	PPM	< 0.01									
SODIUM	PPM	150.00									
STRONTIUM	PPM	2.00									

III-3. (Continued)

SAMPLES: WAL
SITE: AL R.NEW LACK RD BR
TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3305.985
LONGITUDE : W11538.660
TOWN/RANGE: 12S13E29E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760114	760223		760318		760428		760609	760715	
TIME	HMMSS	1650	1330		1255		1035		1305	0930	
BARIUM	PPM				0.17						
CALCIUM	PPM				233.00						
LITHIUM	PPM				0.50						
MAGNESIUM	PPM				91.00						
POTASSIUM	PPM				28.00						
RUBIDIUM	PPM				0.07						
SODIUM	PPM				840.00						
STRONTIUM	PPM				2.80						
ZINC	PPM				0.02						

SAMPLES: HAM
SITE: AM R.ALAMO R78 E BRAHLY
TYPE: * FIELD DATA

LATITUDE : N3258.725
LONGITUDE : W11527.960
TOWN/RANGE: 13S15E31E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760318		760427		760608	760715	760826
TIME	HMMSS	0800			0910		1400		1520	1245	1335
TEMP-SOURCE	DEG. C	11.00			18.00		21.00		23.40	28.60	29.00
PH		8.30			7.50		7.70		7.70	7.80	8.00
CON-STANDARD	UMHO/CM	4670.00			3836.00		4026.00		4490.00	4434.00	2957.00

SAMPLES: HAM
SITE: AM R.ALAMO R78 E BRAHLY
TYPE: * FIELD DATA

LATITUDE : N3258.725
LONGITUDE : W11527.960
TOWN/RANGE: 13S15E31E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761028	761109	761211	770113				
TIME	HMMSS	1440		0700	0710	1620	0845				
TEMP-SOURCE	DEG. C	25.40		17.00	18.30	12.55	10.30				
PH		8.02		7.90	7.85	7.62	7.70				
CON-STANDARD	UMHO/CM	3826.00		4758.00	4734.00	4498.00	5879.00				

Table III-3. (Continued)

1 SAMPLES: WAM
SITE: AM
TYPE: 2

R. ALAMO R78 E BRAWLY
FILTERED-UNACIDIFIED

LATITUDE : N3258.725
LONGITUDE : W11527.960
TOWN/RANGE: 13S15E31E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760318		760427		760608	760715	760826
TIME	HHMMSS	0800			0910		1400		1520	1245	1335
SULFATE	PPM				840.00						
TDS	PPM	3260.00			2400.00						
BICARBONATE	PPM				195.00						
BORON	PPM				0.38						
CARBONATE	PPM				< 2.50						
CHLORIDE	PPM				600.00						

SAMPLES: WAM
SITE: AM
TYPE: 6

R. ALAMO R78 E BRAWLY
FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3258.725
LONGITUDE : W11527.960
TOWN/RANGE: 13S15E31E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760318		760427		760608	760715	760826
TIME	HHMMSS	0800			0910		1400		1520	1245	1335
BARIUM	PPM				0.12						
CALCIUM	PPM				195.00						
LITHIUM	PPM				0.20						
MAGNESIUM	PPM				76.00						
POTASSIUM	PPM				15.00						
RUBIDIUM	PPM				< 0.02						
SODIUM	PPM				500.00						
STRONTIUM	PPM				3.50						
ZINC	PPM				0.02						

SAMPLES: WAM
SITE: AN
TYPE: *

R. NEW DROP3 N BRAWLY
FIELD DATA

LATITUDE : N3300.470
LONGITUDE : W11531.310
TOWN/RANGE: 13S14E21J

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	0930									
TEMP-SOURCE	DEG. C	11.70									
PH		7.50									
CON-STANDARD	UMHO/CM	5420.00									

III-3. (Continued)

1 SAMPLES: WAN
SITE: AN R.NEW DROP3 N BRAWLY
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3300.470
LONGITUDE : W11531.310
TOWN/RANGE: 13S14E21J

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	0930									
TDS	PPM	3660.00									

SAMPLES: WAO
SITE: AO D.VAIL4 GENTRY/LINDS
TYPE: • FIELD DATA

LATITUDE : N3308.865
LONGITUDE : W11536.785
TOWN/RANGE: 12S13E03N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219								
TIME	HHMMSS	1130	1125								
TEMP-SOURCE	DEG. C	13.50	18.50								
PH		8.20	8.30								
CON-STANDARD	UMHO/CM	4180.00									

SAMPLES: WAO
SITE: AO D.VAIL4 GENTRY/LINDS
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3308.865
LONGITUDE : W11536.785
TOWN/RANGE: 12S13E03N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219								
TIME	HHMMSS	1130	1125								
TDS	PPM	3000.00									

SAMPLES: WAP
SITE: AP C.VAIL4 GENTRY/LINDS
TYPE: • FIELD DATA

LATITUDE : N3308.865
LONGITUDE : W11536.825
TOWN/RANGE: 12S13E04R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	1200									
TEMP-SOURCE	DEG. C	10.50									
PH		8.40									
CON-STANDARD	UMHO/CM	1400.00									

Table III-3. (Continued)

1 SAMPLES: WAP
 SITE: AP C.VAIL4 GENTRY/LINDS
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3308.865
 LONGITUDE : W11536.825
 TOWN/RANGE: 12S13E04R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	1200									
TDS	PPM	910.00									

SAMPLES: WAQ
 SITE: AQ D.VAIL4 GENTRY/FOSS
 TYPE: • FIELD DATA

LATITUDE : N3309.730
 LONGITUDE : W11536.785
 TOWN/RANGE: 11S13E34N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225							
TIME	HHMMSS			1515							
TEMP-SOURCE	DEG. C			21.50							
PH				7.50							
CON-STANDARD	UMHO/CM			6829.00							

SAMPLES: WAQ
 SITE: AQ D.VAIL4 GENTRY/FOSS
 TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3309.730
 LONGITUDE : W11536.785
 TOWN/RANGE: 11S13E34N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225							
TIME	HHMMSS			1515							
ARSENIC	PPM			0.01							
BARIUM	PPM			0.15							
BORON	PPM			1.95							
CADMIUM	PPM			0.00							
COBALT	PPM			0.01							
COPPER	PPM			0.06							
IRON	PPM			0.49							
LEAD	PPM			0.01							
MANGANESE	PPM			0.35							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
SELENIUM	PPM			< 0.00							
ZINC	PPM			0.16							

Table III-3. (Continued)

1 SAMPLES: WAQ
SITE: AQ D.VAIL4 GENTRY/FOSS
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3309.730
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225							
TIME	HMMSS			1515							
PH				7.84							
NITRATE	PPM			42.10							
SULFATE	PPM			1804.00							
TDS	PPM			5110.67							
AMMONIUM	PPM			< 0.12							
BICARBONATE	PPM			353.50							
BORON	PPM			0.97							
CARBONATE	PPM			< 2.50							
CHLORIDE	PPM			1267.00							
FLUORINE	PPM			0.52							

SAMPLES: WAQ
SITE: AQ D.VAIL4 GENTRY/FOSS
TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3309.730
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225							
TIME	HMMSS			1515							
BARIUM	PPM			< 1.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			349.00							
COBALT	PPM			< 0.10							
COPPER	PPM			< 0.05							
IRON	PPM			< 0.05							
LEAD	PPM			< 0.50							
LITHIUM	PPM			0.29							
MAGNESIUM	PPM			185.00							
MANGANESE	PPM			0.38							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.10							
POTASSIUM	PPM			5.70							
RUBIDIUM	PPM			< 0.10							
SODIUM	PPM			1044.00							
ZINC	PPM			< 0.05							

Table III-3. (Continued)

1 SAMPLES: WAQ
SITE: AQ D.VAIL4 GENTRY/FOSS
TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3309.730
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34N

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225							
TIME	HHMMSS			1515							
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10							
CADMIUM	PPM			< 0.00							
CALCIUM	PPM			372.50							
COBALT	PPM			0.01							
COPPER	PPM			0.05							
IRON	PPM			0.09							
LEAD	PPM			0.01							
LITHIUM	PPM			0.30							
MAGNESIUM	PPM			176.00							
MANGANESE	PPM			0.34							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			11.50							
RUBIDIUM	PPM			< 0.02							
SELENIUM	PPM			< 0.00							
SODIUM	PPM			1085.00							
ZINC	PPM			0.04							

III-40

SAMPLES: WAR
SITE: AR D.TILE GENTRY/FOSS
TYPE: • FIELD DATA

LATITUDE : N3309.730
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34N

[illegible]

Table III-3. (Continued)

1 SAMPLES: WAS
SITE: AS C.VAIL4 GENTRY/FOSS
TYPE: • FIELD DATA

LATITUDE : N3309.815
LONGITUDE : W11536.820
TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760429	760518	760610	760714	760825
TIME	HMMSS	1415			1015	1010	0920	1100	1125	0930	1030
TEMP-SOURCE	DEG. C	10.50			16.90	18.00	20.00	25.90	23.00	28.30	27.80
PH		8.00			7.00	8.00	8.10	7.90	8.20	8.10	8.10
CON-STANDARD	UMHO/CM	1820.00			1431.00	1418.00	1134.00	1510.00	1489.00	1441.00	1040.00

SAMPLES: WAS
SITE: AS C.VAIL4 GENTRY/FOSS
TYPE: • FIELD DATA

LATITUDE : N3309.815
LONGITUDE : W11536.820
TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761111	761213	770115				
TIME	HMMSS	1220		0950	1515	0835	1310				
TEMP-SOURCE	DEG. C	26.80		17.70	20.10	18.70	11.70				
PH		8.26		8.45	8.10	8.00	8.10				
CON-STANDARD	UMHO/CM	1138.00		1580.00	1552.00	1430.00	2229.00				

SAMPLES: WAS
SITE: AS C.VAIL4 GENTRY/FOSS
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3309.815
LONGITUDE : W11536.820
TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760429	760518	760610	760714	760825
TIME	HMMSS	1415			1015	1010	0920	1100	1125	0930	1030
SULFATE	PPM				344.00	379.00					
TDS	PPM	1220.00			836.00	852.00					
BICARBONATE	PPM				150.00	125.00					
BORON	PPM				0.13	0.34					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				145.00	135.00					

Table III-3. (Continued)

1 SAMPLES: WAS
 SITE: AS C.VAIL4 GENTRY/FOSS
 TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3309.815
 LONGITUDE : W11536.820
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760429	760518	760610	760714	760825
TIME	HHMMSS	1415			1015	1010	0920	1100	1125	0930	1030
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.02									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	40.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	< 0.01									
IRON	PPM	0.09									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	6.00									
MANGANESE	PPM	0.06									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	0.60									
SILVER	PPM	< 0.01									
SODIUM	PPM	60.00									
STRONTIUM	PPM	0.60									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

I. SAMPLES: WAS
 SITE: AS C.VAIL4 GENTRY/FOSS
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3309.815
 LONGITUDE : W11536.820
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760429	760518	760610	760714	760825
TIME	HMMSS	1415			1015	1010	0920	1100	1125	0930	1030
BARIUM	PPM				0.08	0.10					
CALCIUM	PPM				105.00	92.00					
LITHIUM	PPM				0.10	0.10					
MAGNESIUM	PPM				25.00	34.00					
POTASSIUM	PPM				6.00	5.00					
RUBIDIUM	PPM				< 0.02	< 0.02					
SODIUM	PPM				165.00	155.00					
STRONTIUM	PPM				1.40	1.50					
ZINC	PPM				0.01	0.01					

SAMPLES: WAT
 SITE: AT D.VAIL4 GENTRY/MCKEN
 TYPE: * FIELD DATA

LATITUDE : N3310.160
 LONGITUDE : W11536.785
 TOWN/RANGE: 11S13E34E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS	1515			1125	1140	1325	1135	1545	1245	1130
TEMP-SOURCE	DEG. C	19.00			18.80	16.50	26.50	25.10	26.40	32.10	30.50
PH		7.10			7.20	7.90	7.00	7.15	6.80	7.80	7.45
CON-STANDARD	UMHO/CM	4610.00			3082.00	1950.00	8432.00	9149.00	22080.00	2728.00	4044.00

SAMPLES: WAT
 SITE: AT D.VAIL4 GENTRY/MCKEN
 TYPE: * FIELD DATA

LATITUDE : N3310.160
 LONGITUDE : W11536.785
 TOWN/RANGE: 11S13E34E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770115	770220			
TIME	HMMSS	1300		1030	0800	0754	1400	1150			
TEMP-SOURCE	DEG. C	32.60		17.50	17.90	17.75	17.40	20.00			
PH		7.31		7.65	6.80	7.12	8.50	7.15			
CON-STANDARD	UMHO/CM	7484.00		8349.00	8272.00	4677.00	6246.00	5668.00			

Table III-3. (Continued)

1 SAMPLES: WAT

SITE: AT D.VAIL4 GENTRY/MCKEN
TYPE: 2 FILTERED-UNACIDIFIEDLATITUDE : N3310.160
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS	1515			1125	1140	1325	1135	1545	1245	1130
SULFATE	PPM				706.00	958.00					
TDS	PPM	3380.00			1898.00	2554.00					
BICARBONATE	PPM				195.00	245.00					
BORON	PPM				0.31	0.57					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				415.00	585.00					

SAMPLES: WAT

SITE: AT D.VAIL4 GENTRY/MCKEN
TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)LATITUDE : N3310.160
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS	1515			1125	1140	1325	1135	1545	1245	1130
ALUMINUM	PPM	< 0.01									
ANTIMONY	PPM	< 0.20									
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.20									
CADMIUM	PPM	< 0.02									
CALCIUM	PPM	150.00									
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01									
CUPRIC	PPM	< 0.01									
IRON	PPM	1.00									
LEAD	PPM	< 0.07									
MAGNESIUM	PPM	50.00									
MANGANESE	PPM	0.40									
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07									
NIOBIUM	PPM	< 0.20									
SILICON	PPM	2.00									
SILVER	PPM	< 0.01									
SODIUM	PPM	150.00									
STRONTIUM	PPM	2.00									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07									
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

1 SAMPLES: WAT
SITE: AT
TYPE: 6

D.VAIL4 GENTRY/MCKEN
FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.160
LONGITUDE : W11536.785
TOWN/RANGE: 11S13E34E

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760316	760406	760428	760518	760609	760713	760825
TIME	HHMMSS	1515			1125	1140	1325	1135	1545	1245	1130
BARIIUM	PPM				0.08	0.10					
CALCIUM	PPM				177.00	217.00					
LITHIUM	PPM				0.10	0.20					
MAGNESIUM	PPM				61.00	102.00					
POTASSIUM	PPM				10.00	10.00					
RUBIDIUM	PPM				< 0.02	< 0.02					
SODIUM	PPM				375.00	515.00					
STRONTIUM	PPM				2.30	2.60					
ZINC	PPM				0.01	0.01					

SAMPLES: HAU
SITE: AU
TYPE: *

C.VAIL4 GENTRY/MCKEN
FIELD DATA

LATITUDE : N3310.160
LONGITUDE : W11536.825
TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219	760225	760316	760406	760426	760517	760609	760713	760825
TIME	HHMMSS	1540	1235	1550	1040	1100	1510	1600	1505	1135	1055
TEMP-SOURCE	DEG. C	12.00	18.30	15.80	19.80	18.40	24.00	28.00	26.00	31.50	28.70
PH		8.20	8.30	8.10	7.60	8.30	8.00	7.90	8.60	8.20	8.10
CON-STANDARD	UMHO/CM	1410.00		1590.00	1312.00	967.60	1758.00	1365.00	1399.00	1471.00	1022.00

SAMPLES: HAU
SITE: AU
TYPE: *

C.VAIL4 GENTRY/MCKEN
FIELD DATA

LATITUDE : N3310.160
LONGITUDE : W11536.825
TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770115	770215			
TIME	HHMMSS	1040		1015	0825	0907	1340	1310			
TEMP-SOURCE	DEG. C	27.60		17.80	17.30	8.80	10.60	17.70			
PH		8.31		8.20	8.00	8.01	7.90	6.69			
CON-STANDARD	UMHO/CM	1424.00		1518.00	1536.00	1746.00	2292.00	1217.00			

Table III-3. (Continued)

1 SAMPLES: HAU

SITE: AU

TYPE: 1

C.VAIL4 GENTRY/MCKEN

RAW-UNACIDIFIED

LATITUDE : N3310.160

LONGITUDE : W11536.825

TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219	760225	760316	760406	760426	760517	760609	760713	760825
TIME	HHMMSS	1540	1235	1550	1040	1100	1510	1600	1505	1135	1055
ARSENIC	PPM			0.00							
BARIUM	PPM			0.12							
BORON	PPM			1.15							
CADMIUM	PPM			< 0.00							
COBALT	PPM			< 0.01							
COPPER	PPM			0.29							
IRON	PPM			1.01							
LEAD	PPM			0.06							
MANGANESE	PPM			0.03							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.01							
SELENIUM	PPM			< 0.00							
ZINC	PPM			0.19							

SAMPLES: HAU

SITE: AU

TYPE: 2

C.VAIL4 GENTRY/MCKEN

FILTERED-UNACIDIFIED

LATITUDE : N3310.160

LONGITUDE : W11536.825

TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219	760225	760316	760406	760426	760517	760609	760713	760825
TIME	HHMMSS	1540	1235	1550	1040	1100	1510	1600	1505	1135	1055
PH				8.27							
NITRATE	PPM			3.87							
SULFATE	PPM			317.00	340.00	345.00					
TDS	PPM	920.00		1092.67	798.00	950.00					
AMMONIUM	PPM			< 0.12							
BICARBONATE	PPM			150.50	110.00	100.00					
BORON	PPM			0.33	0.21	0.25					
CARBONATE	PPM			12.00	< 2.50	< 2.50					
CHLORIDE	PPM			192.33	135.00	145.00					
FLUORINE	PPM			0.54							

Table III-3. (Continued)

1 SAMPLES: HAU

SITE: AU

TYPE: 4

C.VAIL4 GENTRY/MCKEN

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3310.160

LONGITUDE : W11536.825

TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219	760225	760316	760406	760426	760517	760609	760713	760825
TIME	HHMMSS	1540	1235	1550	1040	1100	1510	1600	1505	1135	1055
ALUMINUM	PPM	0.02									
ANTIMONY	PPM	< 0.20									
BARIUM	PPM			< 1.00							
BERYLLIUM	PPM	< 0.01									
BISMUTH	PPM	< 0.02									
BORON	PPM	0.09									
CADMIUM	PPM	< 0.02		< 0.05							
CALCIUM	PPM	30.00		92.00							
CHROMIUM	PPM	< 0.01									
COBALT	PPM	< 0.01		< 0.10							
COPPER	PPM			< 0.05							
CUPRIC	PPM	0.01									
IRON	PPM	0.60		< 0.05							
LEAD	PPM	< 0.07		< 0.50							
LITHIUM	PPM			0.06							
MAGNESIUM	PPM	15.00		36.00							
MANGANESE	PPM	< 0.01		< 0.05							
MERCURY	PPM			< 0.00							
MOLYBDENUM	PPM	< 0.01									
NICKEL	PPM	< 0.07		< 0.10							
NIObIUM	PPM	< 0.20									
POTASSIUM	PPM			4.10							
RUBIDIUM	PPM			< 0.10							
SILICON	PPM	1.00									
SILVER	PPM	< 0.01									
SODIUM	PPM	50.00		186.00							
STRONTIUM	PPM	0.60									
TIN	PPM	< 0.20									
TITANIUM	PPM	< 0.02									
VANADIUM	PPM	< 0.07									
ZINC	PPM	< 0.07		< 0.05							
ZIRCONIUM	PPM	< 0.20									

Table III-3. (Continued)

I SAMPLES: WAU
 SITE: AU C.VAIL4 GENTRY/MCKEN
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.160
 LONGITUDE : W11536.825
 TOWN/RANGE: 11S13E33H

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115	760219	760225	760316	760406	760426	760517	760609	760713	760825
TIME	HHMMSS	1540	1235	1550	1040	1100	1510	1600	1505	1135	1055
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10	0.05	0.12					
CADMIUM	PPM			< 0.00							
CALCIUM	PPM			100.00	90.00	76.00					
COBALT	PPM			< 0.01							
COPPER	PPM			0.10							
IRON	PPM			0.02							
LEAD	PPM			0.00							
LITHIUM	PPM			0.10	0.10	0.10					
MAGNESIUM	PPM			30.25	24.00	34.00					
MANGANESE	PPM			0.10							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			6.65	6.00	6.00					
RUBIDIUM	PPM			< 0.02	< 0.02	< 0.02					
SELENIUM	PPM			< 0.00							
SODIUM	PPM			205.00	160.00	160.00					
STRONTIUM	PPM				1.10	1.30					
ZINC	PPM			0.03	0.01	0.01					

SAMPLES: WAV
 SITE: AV D.VAIL4A BOYLE/LINDS
 TYPE: • FIELD DATA

LATITUDE : N3308.865
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E040

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760317	760407	760429	760519	760610	760714	760826
TIME	HHMMSS	1620			1030	1115	1035	1300	1240	1205	1158
TEMP-SOURCE	DEG. C	18.50			21.00	21.90	21.50	27.00	25.00	26.40	30.30
PH		8.00			7.30	7.00	7.20	8.00	7.20	7.25	7.70
CON-STANDARD	UMHO/CM	4470.00			5436.00	10660.00	10970.00	1600.00	9084.00	10800.00	5322.00

Table III-3. (Continued)

1 SAMPLES: WAV
 SITE: AV D.VAIL4A BOYLE/LINDS
 TYPE: • FIELD DATA

LATITUDE : N3308.865
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E04Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761111	761213	770115				
TIME	HMMSS	1100		1435	1340	1340	0950				
TEMP-SOURCE	DEG. C	27.60		23.20	24.10	19.20	13.20				
PH		7.82		7.40	7.95	7.60	7.40				
CON-STANDARD	UMHO/CM	9130.00		7726.00	7125.00	5656.00	6901.00				

SAMPLES: WAV
 SITE: AV D.VAIL4A BOYLE/LINDS
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3308.865
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E04Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS	1620			1030	1115	1035	1300	1240	1205	1158
SULFATE	PPM				1545.00	2174.00					
TDS	PPM	3270.00			3938.00	7445.00					
BICARBONATE	PPM				260.00	360.00					
BORON	PPM				0.36	1.60					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				835.00	3440.00					

SAMPLES: WAV
 SITE: AV D.VAIL4A BOYLE/LINDS
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3308.865
 LONGITUDE : W11537.305
 TOWN/RANGE: 12S13E04Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115			760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS	1620			1030	1115	1035	1300	1240	1205	1158
BARIUM	PPM				0.08	0.15					
CALCIUM	PPM				273.00	683.00					
LITHIUM	PPM				0.40	0.90					
MAGNESIUM	PPM				97.00	210.00					
POTASSIUM	PPM				15.00	30.00					
RUBIDIUM	PPM				< 0.02	< 0.02					
SODIUM	PPM				900.00	1600.00					
STRONTIUM	PPM				3.00	10.00					
ZINC	PPM				0.03	0.24					

Table III-3. (Continued)

1 SAMPLES: WAW
 SITE: AW C.VAIL4A BOYLE/LINDS
 TYPE: • FIELD DATA

LATITUDE : N3308.880
 LONGITUDE : W11537.325
 TOWN/RANGE: 12S13E04P

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	1640									
TEMP-SOURCE	DEG. C	11.00									
PH		8.20									
CON-STANDARD	UMHO/CM	1350.00									

SAMPLES: WAW
 SITE: AW C.VAIL4A BOYLE/LINDS
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3308.880
 LONGITUDE : W11537.325
 TOWN/RANGE: 12S13E04P

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760115									
TIME	HHMMSS	1640									
TDS	PPM	880.00									

SAMPLES: WAX
 SITE: AX S.SALTON RED HILL BR
 TYPE: • FIELD DATA

LATITUDE : N3312.200
 LONGITUDE : W11536.540
 TOWN/RANGE: 11S13E22D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD		760223								
TIME	HHMMSS		1510								
TEMP-SOURCE	DEG. C		17.20								
PH			9.00								
CON-STANDARD	UMHO/CM		22300.00								

Table III-3. (Continued)

SAMPLES: WAZ
SITE: AZ D.PUMICE BOYLE/SINCL
TYPE: • FIELD DATA

LATITUDE : N3310.580
LONGITUDE : W11537.295
TOWN/RANGE: 11S13E33B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760224			760316	760406	760428	760517	760609	760713	760825
TIME	HMMSS	1340			1500	1400	1410	1410	1035	1600	1220
TEMP-SOURCE	DEG. C	14.80			18.60	17.00	22.00	28.50	22.80	33.70	30.40
PH		7.90			7.80	8.00	7.40	7.20	7.50	8.03	7.60
CON-STANDARD	UMHO/CM	3420.00			3268.00	4575.00	4433.00	5488.00	5810.00	3688.00	5087.00

SAMPLES: WAZ
SITE: AZ D.PUMICE BOYLE/SINCL
TYPE: • FIELD DATA

LATITUDE : N3310.580
LONGITUDE : W11537.295
TOWN/RANGE: 11S13E33B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770110				
TIME	HMMSS	0930		1120	0715	0630	1400				
TEMP-SOURCE	DEG. C	23.45		17.10	16.60	7.80	10.70				
PH		7.69		7.60	7.50	8.00	8.00				
CON-STANDARD	UMHO/CM	5223.00		7121.00	6003.00	5228.00	4988.00				

SAMPLES: WAZ
SITE: AZ D.PUMICE BOYLE/SINCL
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.580
LONGITUDE : W11537.295
TOWN/RANGE: 11S13E33B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD	760224			760316	760406	760428	760517	760609	760713	760825
TIME	HMMSS	1340			1500	1400	1410	1410	1035	1600	1220
SULFATE	PPM				786.00	995.00					
TDS	PPM				2054.00	7830.00					
BICARBONATE	PPM				195.00	215.00					
BORON	PPM				0.80	0.76					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				490.00	710.00					

Table III-3. (Continued)

1 SAMPLES: WAZ

SITE: AZ

TYPE: 6

D.PUMICE BOYLE/SINCL

FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.580

LONGITUDE : W11537.295

TOWN/RANGE: 11S13E33B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD		760224		760316	760406	760428	760517	760609	760713	760825
TIME	HHMMSS		1340		1500	1400	1410	1410	1035	1600	1220
BARUM	PPM				0.10	0.10					
CALCIUM	PPM				185.00	213.00					
LITHIUM	PPM				0.20	0.20					
MAGNESIUM	PPM				60.00	120.00					
POTASSIUM	PPM				14.00	16.00					
RUBIDIUM	PPM				< 0.02	< 0.02					
SODIUM	PPM				450.00	565.00					
STRONTIUM	PPM				2.30	3.70					
ZINC	PPM				0.01	0.02					

SAMPLES: WBA

SITE: BA

TYPE: *

SUMP9 BOYLE/MCKENDRY

FIELD DATA

LATITUDE : N3310.135

LONGITUDE : W11537.285

TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760317	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1620	0840	1610	1600	1400	1210	1520	1440
TEMP-SOURCE	DEG. C			19.50	18.80	20.80	23.00	22.10	23.60	25.80	25.90
PH				6.60	6.15	7.00	6.80	6.75	6.70	7.00	6.70
CON-STANDARD	UMHO/CM			20110.00	17410.00	21000.00	16270.00	21230.00	23920.00	25880.00	11780.00

SAMPLES: WBA

SITE: BA

TYPE: *

SUMP9 BOYLE/MCKENDRY

FIELD DATA

LATITUDE : N3310.135

LONGITUDE : W11537.285

TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770110	770215			
TIME	HHMMSS	1600		1205	0845	1030	1445	1430			
TEMP-SOURCE	DEG. C	25.50		22.70	24.00	21.70	19.80	19.10			
PH		6.90		6.80	6.70	6.85	6.80	6.40			
CON-STANDARD	UMHO/CM	11870.00		15720.00	21420.00	18200.00	20090.00	17010.00			

111-52

Table III-3. (Continued)

1 SAMPLES: WBA
SITE: BA SUMP9 BOYLE/MCKENDRY
TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3310.135
LONGITUDE : W11537.285
TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760317	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1620	0840	1610	1600	1400	1210	1520	1440
ARSENIC	PPM			0.01							
BARIUM	PPM			0.30							
BORON	PPM			1.73							
CADMIUM	PPM			0.00							
COBALT	PPM			0.01							
COPPER	PPM			0.59							
IRON	PPM			0.91							
LEAD	PPM			0.01							
MANGANESE	PPM			37.24							
MERCURY	PPM			0.01							
NICKEL	PPM			0.01							
SELENIUM	PPM			0.00							
ZINC	PPM			0.48							

SAMPLES: WBA
SITE: BA SUMP9 BOYLE/MCKENDRY
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.135
LONGITUDE : W11537.285
TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760317	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1620	0840	1610	1600	1400	1210	1520	1440
PH				7.30							
NITRATE	PPM			42.77							
SULFATE	PPM			2186.00	2920.00	2931.00					
TDS	PPM			13363.33	15650.00	15470.00					
AMMONIUM	PPM			0.28							
BICARBONATE	PPM			426.50	335.00	355.00					
BORON	PPM			1.67	7.50	2.60					
CARBONATE	PPM			< 2.50	< 2.50	< 2.50					
CHLORIDE	PPM			6316.67	6360.00	6510.00					
FLUORINE	PPM			0.44							

Table III-3. (Continued)

1 SAMPLES: WBA

SITE: BA

TYPE: 4

SUMP9 BOYLE/MCKENDRY

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3310.135

LONGITUDE : W11537.285

TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760317	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1620	0840	1610	1600	1400	1210	1520	1440
BARIUM	PPM			< 1.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			1164.00							
COBALT	PPM			< 0.10							
COPPER	PPM			< 0.05							
IRON	PPM			0.08							
LEAD	PPM			< 0.50							
LITHIUM	PPM			0.15							
MAGNESIUM	PPM			537.00							
MANGANESE	PPM			5.90							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.10							
POTASSIUM	PPM			11.00							
RUBIDIUM	PPM			< 0.10							
SODIUM	PPM			2933.00							
ZINC	PPM			< 0.05							

SAMPLES: WBA

SITE: BA

TYPE: 6

SUMP9 BOYLE/MCKENDRY

FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.135

LONGITUDE : W11537.285

TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760317	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1620	0840	1610	1600	1400	1210	1520	1440
ARSENIC	PPM			0.01							
BARIUM	PPM			0.20	0.20	0.15					
CADMIUM	PPM			0.00							
CALCIUM	PPM			1140.00	1125.00	1125.00					
COBALT	PPM			0.10							
COPPER	PPM			0.20							
IRON	PPM			0.24							
LEAD	PPM			0.01							
LITHIUM	PPM			0.70	1.30	1.30					
MAGNESIUM	PPM			472.50	430.00	480.00					
MANGANESE	PPM			4.25							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			33.00	36.00	33.00					
RUBIDIUM	PPM			< 0.02	0.22	0.10					
SELENIUM	PPM			< 0.00							
SODIUM	PPM			3162.50	3550.00	3570.00					
STRONTIUM	PPM				14.00	7.90					
ZINC	PPM			0.03	0.01	0.06					

Ta III-3. (Continued)

1 SAMPLES: WBB
SITE: BB C.VAIL4A BOYLE/MCKEN
TYPE: * FIELD DATA

LATITUDE : N3310.160
LONGITUDE : W11537.325
TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS			1655	1610	1530	1520	1320		1410	1335
TEMP-SOURCE	DEG. C			17.40	19.80	19.80	24.50	26.00	24.60	31.90	30.60
PH				8.20	7.80	8.30	8.15	8.40	8.20	8.30	8.15
CON-STANDARD	UMHO/CM			1909.00	1339.00	1240.00	1188.00	1399.00	1550.00	1511.00	1121.00

SAMPLES: WBB
SITE: BB C.VAIL4A BOYLE/MCKEN
TYPE: * FIELD DATA

LATITUDE : N3310.160
LONGITUDE : W11537.325
TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770110	770215			
TIME	HMMSS	1435		1215	0900	0934	1430	1405			
TEMP-SOURCE	DEG. C	28.40		16.50	17.20	7.90	9.80	17.50			
PH		8.10		8.00	8.00	8.09	8.10	6.60			
CON-STANDARD	UMHO/CM	1636.00		1324.00	1539.00	1773.00	1985.00	1646.00			

SAMPLES: WBB
SITE: BB C.VAIL4A BOYLE/MCKEN
TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3310.160
LONGITUDE : W11537.325
TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS			1655	1610	1530	1520	1320		1410	1335
ARSENIC	PPM			0.00							
BARIUM	PPM			0.12							
BORON	PPM			0.32							
CADMIUM	PPM			0.00							
COBALT	PPM			< 0.01							
COPPER	PPM			0.09							
IRON	PPM			1.40							
LEAD	PPM			0.00							
MANGANESE	PPM			0.03							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
SELENIUM	PPM			< 0.00							
ZINC	PPM			0.27							

Table III-3. (Continued)

1 SAMPLES: WBB

SITE: BB

TYPE: 2

C.VAIL4A BOYLE/MCKEN

FILTERED-UNACIDIFIED

LATITUDE : N3310.160

LONGITUDE : W11537.325

TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS			1655	1610	1530	1520	1320		1410	1335
PH				8.24							
NITRATE	PPM			4.30							
SULFATE	PPM			365.25	332.00	336.00					
TDS	PPM			1052.67	796.00	800.00					
AMMONIUM	PPM			< 0.12							
BICARBONATE	PPM			89.50	135.00	155.00					
BORON	PPM			0.35	0.25	0.21					
CARBONATE	PPM			13.00	< 2.50	< 2.50					
CHLORIDE	PPM			213.00	135.00	130.00					
FLUORINE	PPM			0.53							

SAMPLES: WBB

SITE: BB

TYPE: 4

C.VAIL4A BOYLE/MCKEN

FILTERED-ACIDIFIED W'ITH HNO3 (5 ML 1:1)

LATITUDE : N3310.160

LONGITUDE : W11537.325

TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS			1655	1610	1530	1520	1320		1410	1335
BARIUM	PPM			< 1.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			78.00							
COBALT	PPM			< 0.10							
COPPER	PPM			< 0.05							
IRON	PPM			0.22							
LEAD	PPM			< 0.50							
LITHIUM	PPM			0.09							
MAGNESIUM	PPM			36.00							
MANGANESE	PPM			< 0.05							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.10							
POTASSIUM	PPM			4.30							
RUBIDIUM	PPM			< 0.10							
SODIUM	PPM			202.00							
ZINC	PPM			< 0.05							

III-56

Table III-3. (Continued)

1 SAMPLES: WBB

SITE: BB

TYPE: 6

C.VAIL4A BOYLE/MCKEN

FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.160

LONGITUDE : W11537.325

TOWN/RANGE: 11S13E33L

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760225	760316	760406	760428	760518	760609	760713	760825
TIME	HHMMSS			1655	1610	1530	1520	1320		1410	1335
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10	0.08	0.10					
CADMIUM	PPM			< 0.00							
CALCIUM	PPM			69.00	96.00	96.00					
COBALT	PPM			< 0.01							
COPPER	PPM			0.00							
IRON	PPM			0.02							
LEAD	PPM			0.00							
LITHIUM	PPM			0.10	0.10	0.10					
MAGNESIUM	PPM			33.75	24.00	30.00					
MANGANESE	PPM			0.07							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			6.70	6.00	5.00					
RUBIDIUM	PPM			< 0.02	< 0.02	< 0.02					
SELENIUM	PPM			< 0.00							
SODIUM	PPM			210.00	165.00	145.00					
STRONTIUM	PPM				1.60	1.20					
ZINC	PPM			0.04	0.01	0.01					

SAMPLES: WBC

SITE: BC

TYPE: *

SUMP45 SEVERE/MCKEND

FIELD DATA

LATITUDE : N3310.560

LONGITUDE : W11537.810

TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760316	760406	760428	760518	760611	760714	760825
TIME	HHMMSS			1026	1530	1455	1645	1245	0915	1440	1500
TEMP-SOURCE	DEG. C				19.70	19.70	23.00	22.80	23.30	27.80	27.60
PH					5.90	6.80	6.90	6.80	6.70	7.20	7.15
CON-STANDARD	UMHO/CM				12870.00	23545.00	14670.00	26150.00	29570.00	11120.00	7593.00

Table III-3. (Continued)

1 SAMPLES: WBC
 SITE: BC SUMP45 SEVERE/MCKEND
 TYPE: • FIELD DATA

LATITUDE : N3310.560
 LONGITUDE : W11537.810
 TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761112	761213	770110	770215			
TIME	HMMSS	1720		1240	0945	1100	1605	1640			
TEMP-SOURCE	DEG. C	28.15		21.30	20.60	16.65	19.50	18.70			
PH		7.48		7.20	5.60	7.19	6.90	6.80			
CON-STANDARD	UMHO/CM	13520.00		11880.00	20840.00	14150.00	11240.00	10300.00			

SAMPLES: WBC
 SITE: BC SUMP45 SEVERE/MCKEND
 TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3310.560
 LONGITUDE : W11537.810
 TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760316	760406	760428	760518	760611	760714	760825
TIME	HMMSS			1026	1530	1455	1645	1245	0915	1440	1500
ARSENIC	PPM			0.00							
BARIUM	PPM			0.20							
BORON	PPM			1.42							
CADMIUM	PPM			0.00							
COBALT	PPM			0.01							
COPPER	PPM			1.23							
IRON	PPM			0.79							
LEAD	PPM			0.01							
MANGANESE	PPM			6.49							
MERCURY	PPM			0.00							
NICKEL	PPM			0.01							
SELENIUM	PPM			0.00							
ZINC	PPM			0.40							

Table III-3. (Continued)

1 SAMPLES: WBC
SITE: BC SUMP45 SEVERE/MCKEND
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.560
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760316	760406	760428	760518	760611	760714	760825
TIME	HHMMSS			1026	1530	1455	1645	1245	0915	1440	1500
PH				7.48							
NITRATE	PPM			34.00							
SULFATE	PPM			1817.50	2010.00	2102.00					
TDS	PPM			13210.00	11140.00	17120.00					
AMMONIUM	PPM			0.17							
BICARBONATE	PPM			367.00	315.00	285.00					
BORON	PPM			1.35	3.80	1.70					
CARBONATE	PPM			< 2.50	< 2.50	< 2.50					
CHLORIDE	PPM			5717.67	4475.00	8035.00					
FLUORINE	PPM			0.38							

SAMPLES: WBC
SITE: BC SUMP45 SEVERE/MCKEND
TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3310.560
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760316	760406	760428	760518	760611	760714	760825
TIME	HHMMSS			1026	1530	1455	1645	1245	0915	1440	1500
BARIUM	PPM			< 1.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			1054.00							
COBALT	PPM			< 0.10							
COPPER	PPM			< 0.05							
IRON	PPM			0.05							
LEAD	PPM			< 0.50							
LITHIUM	PPM			0.46							
MAGNESIUM	PPM			468.00							
MANGANESE	PPM			4.40							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.10							
POTASSIUM	PPM			10.00							
RUBIDIUM	PPM			< 0.10							
SODIUM	PPM			2637.00							
ZINC	PPM			0.05							

Table III-3. (Continued)

1 SAMPLES: WBC
SITE: BC
TYPE: 6

SUMP45 SEVERE/MCKEND
FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.560
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760316	760406	760428	760518	760611	760714	760825
TIME	HMMSS			1026	1530	1455	1645	1245	0915	1440	1500
ARSENIC	PPM			< 0.00							
BARIUM	PPM			0.15	0.18	0.30					
CADMIUM	PPM			0.00							
CALCIUM	PPM			1012.50	924.00	1405.00					
COBALT	PPM			< 0.01							
COPPER	PPM			0.15							
IRON	PPM			0.27							
LEAD	PPM			0.05							
LITHIUM	PPM			0.60	0.50	0.80					
MAGNESIUM	PPM			419.00	310.00	550.00					
MANGANESE	PPM			4.20							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			30.50	30.00	37.00					
RUBIDIUM	PPM			0.08	0.16	0.08					
SELENIUM	PPM			< 0.00							
SODIUM	PPM			2700.00	2350.00	3675.00					
STRONTIUM	PPM					24.00					
ZINC	PPM			0.05	0.03	0.03					

SAMPLES: WBD

SITE: BD

TYPE: *

SUMP116 BOYLE/KUNS
FIELD DATA

LATITUDE : N3309.285
LONGITUDE : W11537.305
TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS			1120	0950	1020	1325	1120	0745	1115	1645
TEMP-SOURCE	DEG. C			22.20	19.10	19.40	21.00	21.80	22.50	25.10	26.10
PH				6.72	6.80	6.50	6.60	6.70	6.70	6.70	6.75
CON-STANDARD	UMHO/CM				5783.00	22980.00	28610.00	2226.00	23390.00	16620.00	8145.00

Table III-3. (Continued)

1 SAMPLES: WBD

SITE: BD

TYPE: *

SUMPI16 BOYLE/KUNS

FIELD DATA

LATITUDE : N3309.285

LONGITUDE : W11537.305

TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761111	761213	770115	770217			
TIME	HMMSS	1025		1415	1410	1310	1100	1200			
TEMP-SOURCE	DEG. C	25.90		23.90	25.20	22.95	20.50	19.20			
PH		6.60		6.80	6.40	6.64	7.00	6.50			
CON-STANDARD	UMHO/CM	27080.00		11750.00	46770.00	36600.00	10990.00	6052.00			

SAMPLES: WBD

SITE: BD

TYPE: 1

SUMPI16 BOYLE/KUNS

RAW-UNACIDIFIED

LATITUDE : N3309.285

LONGITUDE : W11537.305

TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS			1120	0950	1020	1325	1120	0745	1115	1645
COPPER	PPM			1.45							
IRON	PPM			2.13							
LEAD	PPM			1.55							
MANGANESE	PPM			280.00							
SELENIUM	PPM			0.01							
ZINC	PPM			65.84							

SAMPLES: WBD

SITE: BD

TYPE: 2

SUMPI16 BOYLE/KUNS

FILTERED-UNACIDIFIED

LATITUDE : N3309.285

LONGITUDE : W11537.305

TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS			1120	0950	1020	1325	1120	0745	1115	1645
PH				7.08							
NITRATE	PPM			139.23							
SULFATE	PPM			1390.00	1635.00	2369.00					
TDS	PPM			44700.00	4210.00	16670.00					
AMMONIUM	PPM			24.40							
BICARBONATE	PPM			406.50	355.00	380.00					
BORON	PPM			31.20	0.58	4.80					
CARBONATE	PPM			< 2.50	< 2.50	< 2.50					
CHLORIDE	PPM			24710.00	915.00	7425.00					
FLUORINE	PPM			0.40							

Table III-3. (Continued)

1 SAMPLES: WBD

SITE: BD

TYPE: 4

SUMP116 BOYLE/KUNS

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3309.285

LONGITUDE : W11537.305

TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS			1120	0950	1020	1325	1120	0745	1115	1645
BARIUM	PPM			2.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			6528.00							
COBALT	PPM			< 0.10							
COPPER	PPM			0.14							
IRON	PPM			0.67							
LEAD	PPM			1.00							
LITHIUM	PPM			38.00							
MAGNESIUM	PPM			648.00							
MANGANESE	PPM			130.00							
MERCURY	PPM			< 0.00							
NICKEL	PPM			0.60							
POTASSIUM	PPM			780.00							
RUBIDIUM	PPM			1.00							
SODIUM	PPM			7250.00							
ZINC	PPM			23.40							

SAMPLES: WBD

SITE: BD

TYPE: 5

SUMP116 BOYLE/KUNS

FILTERED-ACIDIFIED WITH HCL (.1 UM FLT)

LATITUDE : N3309.285

LONGITUDE : W11537.305

TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS			1120	0950	1020	1325	1120	0745	1115	1645
TDS	PPM			43100.00							
BARIUM	PPM			2.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			6148.00							
COBALT	PPM			< 0.10							
COPPER	PPM			0.15							
IRON	PPM			0.66							
LEAD	PPM			1.00							
LITHIUM	PPM			37.00							
MAGNESIUM	PPM			643.00							
MANGANESE	PPM			131.00							
MERCURY	PPM			< 0.00							
NICKEL	PPM			0.60							
POTASSIUM	PPM			770.00							
RUBIDIUM	PPM			1.00							
SODIUM	PPM			7190.00							
ZINC	PPM			23.50							

Table III-3. (Continued)

1 SAMPLES: WBD
SITE: BD
TYPE: 6

SUMP116 BOYLE/KUNS
FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3309.285
LONGITUDE : W11537.305
TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS			1120	0950	1020	1325	1120	0745	1115	1645
ARSENIC	PPM			< 0.00							
BARIUM	PPM			1.20	0.08	0.20					
CADMIUM	PPM			0.01							
CALCIUM	PPM			6802.50	378.00	1850.00					
COBALT	PPM			0.04							
COPPER	PPM			0.42							
IRON	PPM			1.08							
LEAD	PPM			1.19							
LITHIUM	PPM			33.00	0.80	7.40					
MAGNESIUM	PPM			617.50	100.00	340.00					
MANGANESE	PPM			125.00							
MERCURY	PPM			0.00							
NICKEL	PPM			0.04							
POTASSIUM	PPM			1227.50	33.00	300.00					
RUBIDIUM	PPM			1.30	< 0.02	0.50					
SELENIUM	PPM			< 0.01							
SODIUM	PPM			7875.00	900.00	3200.00					
STRONTIUM	PPM				3.70	35.00					
ZINC	PPM			24.50	0.02	7.50					

SAMPLES: WBD
SITE: BD
TYPE: 7

SUMP116 BOYLE/KUNS
FILTER SAMPLE

LATITUDE : N3309.285
LONGITUDE : W11537.305
TOWN/RANGE: 12S13E04F

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS			1120	0950	1020	1325	1120	0745	1115	1645
ARSENIC	PPM			0.00							
BARIUM	PPM			1.80							
BORON	PPM			29.40							
CADMIUM	PPM			0.02							
COBALT	PPM			0.04							
COPPER	PPM			0.15							
IRON	PPM			1.80							
LEAD	PPM			0.87							
MANGANESE	PPM			95.00							
MERCURY	PPM			0.00							
NICKEL	PPM			0.04							
ZINC	PPM			22.50							

Table III-3. (Continued)

1 SAMPLES: WBE
 SITE: BE SUMP120 BOYLE S LIND
 TYPE: * FIELD DATA

LATITUDE : N3308.390
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS			1240	1310	1355	1350	1410	1330	1300	1228
TEMP-SOURCE	DEG. C			18.80	17.80	18.60	20.00	20.50	21.20	24.50	25.40
PH				7.55	6.75	7.00	6.95	7.05	7.00	6.85	7.35
CON-STANDARD	UMHO/CM				6073.00	7696.00	5849.00	8141.00	12030.00	3883.00	4659.00

SAMPLES: WBE
 SITE: BE SUMP120 BOYLE S LIND
 TYPE: * FIELD DATA

LATITUDE : N3308.390
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761111	761213	770115	770217			
TIME	HMMSS	1220		1515	1255	1417	1020	1310			
TEMP-SOURCE	DEG. C	25.05		24.10	23.00	20.75	19.10	17.80			
PH		7.08		6.95	6.90	7.00	7.10	6.85			
CON-STANDARD	UMHO/CM	8385.00		7837.00	9373.00	6558.00	6123.00	10390.00			

SAMPLES: WBE
 SITE: BE SUMP120 BOYLE S LIND
 TYPE: 1 RAW-UNACIDIFIED

LATITUDE : N3308.390
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS			1240	1310	1355	1350	1410	1330	1300	1228
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10							
BORON	PPM			0.67							
CADMIUM	PPM			0.00							
COBALT	PPM			0.01							
COPPER	PPM			0.09							
IRON	PPM			1.04							
LEAD	PPM			0.02							
MANGANESE	PPM			0.47							
MERCURY	PPM			0.00							
NICKEL	PPM			0.01							
SELENIUM	PPM			0.00							
ZINC	PPM			0.33							

Table III-3. (Continued)

1 SAMPLES: WBE

SITE: BE

TYPE: 2

SUMP120 BOYLE S LIND

FILTERED-UNACIDIFIED

LATITUDE : N3308.390

LONGITUDE : W11537.290

TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760610	760714	760826
TIME	HHMMSS			1240	1310	1355	1350	1410	1330	1300	1228
PH				7.96							
NITRATE	PPM			29.57							
SULFATE	PPM			1135.50	1880.00	2114.00					
TDS	PPM			2882.67	4566.00	5145.00					
AMMONIUM	PPM			< 0.12							
BICARBONATE	PPM			345.00	330.00	340.00					
BORON	PPM			0.90	0.76	1.10					
CARBONATE	PPM			< 2.50	< 2.50	< 2.50					
CHLORIDE	PPM			461.33	825.00	1145.00					
FLUORINE	PPM			0.59							

SAMPLES: WBE

SITE: BE

TYPE: 4

SUMP120 BOYLE S LIND

FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3308.390

LONGITUDE : W11537.290

TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760610	760714	760826
TIME	HHMMSS			1240	1310	1355	1350	1410	1330	1300	1228
BARIUM	PPM			< 1.00							
CADMIUM	PPM			< 0.05							
CALCIUM	PPM			205.00							
COBALT	PPM			< 0.10							
COPPER	PPM			< 0.05							
IRON	PPM			< 0.05							
LEAD	PPM			< 0.50							
LITHIUM	PPM			0.18							
MAGNESIUM	PPM			95.00							
MANGANESE	PPM			0.21							
MERCURY	PPM			< 0.00							
NICKEL	PPM			< 0.10							
POTASSIUM	PPM			4.90							
RUBIDIUM	PPM			< 0.10							
SODIUM	PPM			561.00							
ZINC	PPM			0.00							

III-65

Table III-3. (Continued)

1 SAMPLES: WBE

SITE: BE

TYPE: 6

SUMP120 BOYLE S LIND

FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3308.390

LONGITUDE : W11537.290

TOWN/RANGE: 12S13E09K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD			760226	760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS			1240	1310	1355	1350	1410	1330	1300	1228
ARSENIC	PPM			0.00							
BARIUM	PPM			0.10	0.08	0.15					
CADMIUM	PPM			< 0.00							
CALCIUM	PPM			200.00	305.00	362.00					
COBALT	PPM			< 0.01							
COPPER	PPM			0.15							
IRON	PPM			0.05							
LEAD	PPM			0.03							
LITHIUM	PPM			0.20	0.30	0.40					
MAGNESIUM	PPM			84.00	115.00	145.00					
MANGANESE	PPM			0.15							
MERCURY	PPM			0.00							
NICKEL	PPM			< 0.01							
POTASSIUM	PPM			10.50	15.00	16.00					
RUBIDIUM	PPM			< 0.02	< 0.02	< 0.02					
SELENIUM	PPM			< 0.00							
SODIUM	PPM			582.50	1000.00	1225.00					
STRONTIUM	PPM				4.00	3.70					
ZINC	PPM			0.03	0.01	0.02					

SAMPLES: WBF

SITE: BF

TYPE: *

SUMP15 GENTRY/MCKEND

FIELD DATA

LATITUDE : N3310.130

LONGITUDE : W11536.780

TOWN/RANGE: 11S13E34M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS				1425	1310	1355	1200	1615	1320	1155
TEMP-SOURCE	DEG. C				19.60	20.30	22.00	21.70	22.90	25.10	26.10
PH					6.35	6.50	6.40	6.50	6.50	6.50	6.50
CON-STANDARD	UMHO/CM				18500.00	2097.00	22630.00	26770.00	30700.00	25570.00	7917.00

Ta(III-3, (Continued)

1 SAMPLES: WBF
SITE: BF SUMP15 GENTRY/MCKEND
TYPE: * FIELD DATA

LATITUDE : N3310.130
LONGITUDE : W11536.780
TOWN/RANGE: 11S13E34M

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770115	770220			
TIME	HMMSS	1340		1055	0745	0737	1430	1215			
TEMP-SOURCE	DEG. C	25.55		24.60	24.20	22.30	20.90	20.00			
PH		6.41		6.75	6.40	6.60	6.80	6.75			
CON-STANDARD	UMHO/CM	16500.00		15110.00		16910.00	13070.00	11670.00			
CO2	PPM				11000.00						

SAMPLES: WBF
SITE: BF SUMP15 GENTRY/MCKEND
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.130
LONGITUDE : W11536.780
TOWN/RANGE: 11S13E34M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS				1425	1310	1355	1200	1615	1320	1155
SULFATE	PPM				2071.00	2492.00					
TDS	PPM				15810.00	16340.00					
BICARBONATE	PPM				410.00	430.00					
BORON	PPM				4.80	3.90					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				6765.00	7325.00					

SAMPLES: WBF
SITE: BF SUMP15 GENTRY/MCKEND
TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.130
LONGITUDE : W11536.780
TOWN/RANGE: 11S13E34M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760316	760406	760428	760518	760609	760713	760825
TIME	HMMSS				1425	1310	1355	1200	1615	1320	1155
BARUM	PPM				0.20	0.25					
CALCIUM	PPM				1246.00	1326.00					
LITHIUM	PPM				0.70	0.80					
MAGNESIUM	PPM				460.00	620.00					
POTASSIUM	PPM				37.00	37.00					
RUBIDIUM	PPM				0.21	0.07					
SODIUM	PPM				3250.00	3450.00					
STRONTIUM	PPM				22.00	14.00					
ZINC	PPM				0.03	0.01					

Table III-3. (Continued)

1 SAMPLES: HBG

SITE: BG

D.VAIL4A BOYLE/FOSS

TYPE: *

FIELD DATA

LATITUDE : N3309.745

LONGITUDE : W11537.305

TOWN/RANGE: 11S13E33Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760826
TIME	HHMMSS				0925	0930	1000	1045	0950	1040	1125
TEMP-SOURCE	DEG. C				22.80	26.20	22.50	25.30	19.20	28.80	29.50
PH					8.90	7.65	7.20	7.70	7.50	7.75	6.95
CON-STANDARD	UMHO/CM				5543.00	9853.00	6925.00	10030.00	10280.00	11600.00	5768.00

SAMPLES: HBG

SITE: BG

D.VAIL4A BOYLE/FOSS

TYPE: *

FIELD DATA

LATITUDE : N3309.745

LONGITUDE : W11537.305

TOWN/RANGE: 11S13E33Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761111	761213	770115				
TIME	HHMMSS	0940		1355	1425	1230	1230				
TEMP-SOURCE	DEG. C	24.40		23.60	21.10	17.70	15.00				
PH		7.41		7.20	7.25	6.93	7.35				
CON-STANDARD	UMHO/CM	10920.00		9770.00	3797.00	7608.00	9351.00				

SAMPLES: HBG

SITE: BG

D.VAIL4A BOYLE/FOSS

TYPE: 2

FILTERED-UNACIDIFIED

LATITUDE : N3309.745

LONGITUDE : W11537.305

TOWN/RANGE: 11S13E33Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760826
TIME	HHMMSS				0925	0930	1000	1045	0950	1040	1125
SULFATE	PPM				1635.00	2038.00					
TDS	PPM				4162.00	7670.00					
BICARBONATE	PPM				260.00	345.00					
BORON	PPM				0.71	2.60					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				905.00	2645.00					

Tab III-3. (Continued)

1 SAMPLES: WBG
 SITE: BG D.VAIL4A BOYLE/FOSS
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3309.745
 LONGITUDE : W11537.305
 TOWN/RANGE: 11S13E33Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760826
TIME	HMMSS				0925	0930	1000	1045	0950	1040	1125
BARIUM	PPM				0.10	0.15					
CALCIUM	PPM				297.00	723.00					
LITHIUM	PPM				0.60	1.50					
MAGNESIUM	PPM				115.00	205.00					
POTASSIUM	PPM				23.00	59.00					
RUBIDIUM	PPM				0.08	0.10					
SODIUM	PPM				915.00	1585.00					
STRONTIUM	PPM				4.10	8.50					
ZINC	PPM				0.04	0.49					

SAMPLES: WBH
 SITE: BH SUMP82 BOYLE/LINDSEY
 TYPE: • FIELD DATA

LATITUDE : N3308.820
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760825
TIME	HMMSS				1115	1305	1055	1330	1300	1230	1625
TEMP-SOURCE	DEG. C				18.90	19.50	21.00	21.50	22.20	24.40	25.10
PH					6.80	6.75	6.90	6.90	7.00	7.00	7.05
CON-STANDARD	UMHO/CM				5695.00	11830.00	8053.00	1265.00	9630.00	12640.00	7180.00

SAMPLES: WBH
 SITE: BH SUMP82 BOYLE/LINDSEY
 TYPE: • FIELD DATA

LATITUDE : N3308.820
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761111	761213	770115	770217			
TIME	HMMSS	1140		1500	1320	1351	0940	1355			
TEMP-SOURCE	DEG. C	24.60		24.00	23.50	21.30	19.90	19.40			
PH		7.02		6.90	6.90	6.99	7.00	6.65			
CON-STANDARD	UMHO/CM	9470.00		9179.00	8245.00	5940.00	7128.00	6363.00			

Table III-3. (Continued)

1 SAMPLES: WBH
 SITE: BH SUMP82 BOYLE/LINDSEY
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3308.820
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760825
TIME	HMMSS				1115	1305	1055	1330	1300	1230	1625
SULFATE	PPM				1500.00	2243.00					
TDS	PPM				4088.00	8185.00					
BICARBONATE	PPM				375.00	365.00					
BORON	PPM				0.78	2.90					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				915.00	2850.00					

SAMPLES: WBH
 SITE: BH SUMP82 BOYLE/LINDSEY
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3308.820
 LONGITUDE : W11537.290
 TOWN/RANGE: 12S13E09B

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760610	760714	760825
TIME	HMMSS				1115	1305	1055	1330	1300	1230	1625
BARIUM	PPM				0.10	0.20					
CALCIUM	PPM				346.00	763.00					
LITHIUM	PPM				0.50	1.00					
MAGNESIUM	PPM				100.00	250.00					
POTASSIUM	PPM				16.00	34.00					
RUBIDIUM	PPM				< 0.02	< 0.02					
SODIUM	PPM				880.00	1725.00					
STRONTIUM	PPM				5.70	10.00					
ZINC	PPM				0.04	0.28					

SAMPLES: WB1
 SITE: B1 SUMP42 SEVERE/KUNS
 TYPE: • FIELD DATA

LATITUDE : N3310.130
 LONGITUDE : W11537.810
 TOWN/RANGE: 11S13E33M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS				1405	1545	1510	1440	0810	1335	1600
TEMP-SOURCE	DEG. C				19.60	20.30	21.00	22.00	23.20	26.00	26.00
PH					6.60	6.50	6.65	6.80	6.70	7.18	6.60
CON-STANDARD	UMHO/CM				8185.00	19710.00	20910.00	15880.00	1852.00	23320.00	11750.00

Tab III-3. (Continued)

1 SAMPLES: WBI
SITE: B1 SUMP42 SEVERE/KUNS
TYPE: • FIELD DATA

LATITUDE : N3310.130
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33M

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761112	761213	770115	770220			
TIME	HMMSS	1345		1335	1035	1159	1130	1340			
TEMP-SOURCE	DEG. C	25.45		22.40	22.70	19.55	18.50	19.50			
PH		6.84		6.90	5.40	6.92	7.10	6.60			
CON-STANDARD	UMHO/CM	11880.00		6856.00	6288.00	5612.00	7011.00	39890.00			

SAMPLES: WBI
SITE: B1 SUMP42 SEVERE/KUNS
TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.130
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS				1405	1545	1510	1440	0810	1335	1600
SULFATE	PPM				1440.00	2342.00					
TDS	PPM				6642.00	13140.00					
BICARBONATE	PPM				350.00	410.00					
BORON	PPM				0.57	1.80					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				2340.00	5495.00					

SAMPLES: WBI
SITE: B1 SUMP42 SEVERE/KUNS
TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.130
LONGITUDE : W11537.810
TOWN/RANGE: 11S13E33M

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HMMSS				1405	1545	1510	1440	0810	1335	1600
BARIUM	PPM				0.05	0.25					
CALCIUM	PPM				525.00	1125.00					
LITHIUM	PPM				0.90	1.00					
MAGNESIUM	PPM				212.00	420.00					
POTASSIUM	PPM				53.00	46.00					
RUBIDIUM	PPM				< 0.04	0.10					
SODIUM	PPM				1325.00	2750.00					
STRONTIUM	PPM				9.40	14.00					
ZINC	PPM				0.02	0.04					

Table III-3. (Continued)

1 SAMPLES: WBJ

SITE: BJ

SUMP43 SEVERE/FOSS

TYPE: *

FIELD DATA

LATITUDE : N3310.300

LONGITUDE : W11537.855

TOWN/RANGE: 12S13E04D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS				1445	1440	1535	1500	0840	1410	1540
TEMP-SOURCE	DEG. C				20.50	20.50	21.00	22.00		25.90	26.00
PH					6.59	6.80	6.60	6.65		6.80	6.80
CON-STANDARD	UMHO/CM				14290.00	14460.00	23630.00	25330.00		28860.00	12240.00

SAMPLES: WBJ

SITE: BJ

SUMP43 SEVERE/FOSS

TYPE: *

FIELD DATA

LATITUDE : N3310.300

LONGITUDE : W11537.855

TOWN/RANGE: 12S13E04D

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760929		761027	761112	761213	770115	770215			
TIME	HHMMSS	1630		1305	1055	1145	1200	1700			
TEMP-SOURCE	DEG. C	25.70		24.30	23.40	20.40	19.10	18.90			
PH		6.73		6.80		6.99	7.15	6.60			
CON-STANDARD	UMHO/CM	24630.00		17230.00	20650.00	11240.00	12470.00	7973.00			

111-72

SAMPLES: WBJ

SITE: BJ

SUMP43 SEVERE/FOSS

TYPE: 2

FILTERED-UNACIDIFIED

LATITUDE : N3310.300

LONGITUDE : W11537.855

TOWN/RANGE: 12S13E04D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS				1445	1440	1535	1500	0840	1410	1540
SULFATE	PPM				1898.00	1891.00					
TDS	PPM				11900.00	10090.00					
BICARBONATE	PPM				350.00	370.00					
BORON	PPM				3.10	2.60					
CARBONATE	PPM				< 2.50	< 2.50					
CHLORIDE	PPM				4885.00	4170.00					

Table III-3. (Continued)

1 SAMPLES: WBJ
 SITE: BJ SUMP43 SEVERE/FOSS
 TYPE: 4 FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE : N3310.300
 LONGITUDE : W11537.855
 TOWN/RANGE: 12S13E04D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS				1445	1440	1535	1500	0840	1410	1540
TEMP-SOURCE	DEG. C								23.00		
PH									6.80		
CON-STANDARD	UMHO/CM								25400.00		

SAMPLES: WBJ
 SITE: BJ SUMP43 SEVERE/FOSS
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.300
 LONGITUDE : W11537.855
 TOWN/RANGE: 12S13E04D

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760317	760407	760429	760519	760611	760714	760825
TIME	HHMMSS				1445	1440	1535	1500	0840	1410	1540
BARIUM	PPM				0.10	0.20					
CALCIUM	PPM				1000.00	804.00					
LITHIUM	PPM				0.50	0.50					
MAGNESIUM	PPM				330.00	335.00					
POTASSIUM	PPM				31.00	28.00					
RUBIDIUM	PPM				< 0.04	< 0.02					
SODIUM	PPM				2450.00	2200.00					
STRONTIUM	PPM				15.00	11.00					
ZINC	PPM				0.02	0.03					

SAMPLES: WBK
 SITE: BK C.EASTHL R98 NR BORN
 TYPE: • FIELD DATA

LATITUDE : N3241.845
 LONGITUDE : W11516.825
 TOWN/RANGE: 17S15W01Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760319		760427		760608		
TIME	HHMMSS				1030		1150		1130		
TEMP-SOURCE	DEG. C				17.00		21.00		26.00		
PH					8.00		8.00		7.80		
CON-STANDARD	UMHO/CM				13260.00		1342.00		1632.00		

Table III-3. (Continued)

1 SAMPLES: WBK
 SITE: BK C.EASTHL R98 NR BORN
 TYPE: • FIELD DATA

LATITUDE : N3241.845
 LONGITUDE : W11516.825
 TOWN/RANGE: 17S15W01Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761028	761109	761212	770111	770217			
TIME	HHMMSS	1125		1030	1250	1632	1525	1645			
TEMP-SOURCE	DEG. C	25.90		19.60	19.40	11.40	11.30	16.35			
PH		8.02		8.10	8.00	8.00	8.00	7.10			
CON-STANDARD	UMHO/CM	1079.00		1345.00	1520.00	13480.00	1911.00	1342.00			

SAMPLES: WBK
 SITE: BK C.EASTHL R98 NR BORN
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3241.845
 LONGITUDE : W11516.825
 TOWN/RANGE: 17S15W01Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760319		760427		760608		
TIME	HHMMSS				1030		1150		1130		
SULFATE	PPM				314.00						
TDS	PPM				790.00						
BICARBONATE	PPM				145.00						
BORON	PPM				0.19						
CARBONATE	PPM				< 2.50						
CHLORIDE	PPM				125.00						

SAMPLES: WBK
 SITE: BK C.EASTHL R98 NR BORN
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3241.845
 LONGITUDE : W11516.825
 TOWN/RANGE: 17S15W01Q

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760319		760427		760608		
TIME	HHMMSS				1030		1150		1130		
BARUM	PPM				0.10						
CALCIUM	PPM				100.00						
LITHIUM	PPM				0.10						
MAGNESIUM	PPM				22.00						
POTASSIUM	PPM				6.00						
RUBIDIUM	PPM				< 0.02						
SODIUM	PPM				155.00						
STRONTIUM	PPM				1.40						
ZINC	PPM				0.01						

Table III-3. (Continued)

SAMPLES: WBL
 SITE: BL R.NEW R111 N BRAWLEY
 TYPE: • FIELD DATA

LATITUDE : N3300.273
 LONGITUDE : W11531.535
 TOWN/RANGE: 13S14E21K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760318		760427		760608	760715	760826
TIME	HMMSS				1030		1320		1620	1145	
TEMP-SOURCE	DEG. C				17.50		22.50		24.70	29.50	29.80
PH					7.60		7.50		7.50	7.75	7.70
CON-STANDARD	UMHO/CM				5644.00		5689.00		8174.00	7324.00	5007.00

SAMPLES: WBL
 SITE: BL R.NEW R111 N BRAWLEY
 TYPE: • FIELD DATA

LATITUDE : N3300.273
 LONGITUDE : W11531.535
 TOWN/RANGE: 13S14E21K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761026	761108	761211	770113	770217			
TIME	HMMSS	1310		0945	1625	1540	0930	0725			
TEMP-SOURCE	DEG. C	26.60		20.90	19.80	13.50	11.60	16.10			
PH		7.69		7.50	7.40	7.21	7.45	6.70			
CON-STANDARD	UMHO/CM	6291.00		6700.00	7702.00	7756.00	9753.00	6830.50			

SAMPLES: WBL
 SITE: BL R.NEW R111 N BRAWLEY
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3300.273
 LONGITUDE : W11531.535
 TOWN/RANGE: 13S14E21K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760318		760427		760608	760715	760826
TIME	HMMSS				1030		1320		1620	1145	
SULFATE	PPM				844.00						
TDS	PPM				3742.00						
BICARBONATE	PPM				230.00						
BORON	PPM				1.22						
CARBONATE	PPM				< 2.50						
CHLORIDE	PPM				1425.00						

Table III-3. (Continued)

1 SAMPLES: WBL
 SITE: BL R.NEW RIII N BRAWLEY
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3300.273
 LONGITUDE : W11531.535
 TOWN/RANGE: 13S14E21K

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD				760318		760427		760608	760715	760826
TIME	HMMSS				1030		1320		1620	1145	
BARIUM	PPM				0.17						
CALCIUM	PPM				225.00						
LITHIUM	PPM				0.60						
MAGNESIUM	PPM				96.00						
POTASSIUM	PPM				35.00						
RUBIDIUM	PPM				0.07						
SODIUM	PPM				975.00						
STRONTIUM	PPM				4.00						
ZINC	PPM				0.01						

SAMPLES: WBM
 SITE: BM D.VAIL4A BOYLE/MCKEN
 TYPE: * FIELD DATA

LATITUDE : N3310.160
 LONGITUDE : W11537.825
 TOWN/RANGE: 11S13E33G

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD					760407	760428	760518	760609	760713	760825
TIME	HMMSS					0845	1455	1440	1150	1435	1420
TEMP-SOURCE	DEG. C					22.40	28.00	25.40	26.00	34.50	36.00
PH						7.60	7.90	7.45	7.80	7.60	8.00
CON-STANDARD	UMHO/CM					10050.00	4485.00	1322.00	5441.00	12870.00	4964.00

SAMPLES: WBM
 SITE: BM D.VAIL4A BOYLE/MCKEN
 TYPE: * FIELD DATA

LATITUDE : N3310.160
 LONGITUDE : W11537.825
 TOWN/RANGE: 11S13E33G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760928		761027	761112	761213	770110	770215			
TIME	HMMSS	1530		1145	0915	1005	1515	1445			
TEMP-SOURCE	DEG. C	30.70		19.90	15.90	12.33	11.90	20.60			
PH		7.40		7.25	7.10	7.48	7.35	7.01			
CON-STANDARD	UMHO/CM	7164.00		8353.00	4516.00	9933.00	11560.00	4222.00			

Table III-3. (Continued)

1 SAMPLES: WBM
 SITE: BM D.VAIL4A BOYLE/MCKEN
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3310.160
 LONGITUDE : W11537.825
 TOWN/RANGE: 11S13E33G

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD					760407	760428	760518	760609	760713	760825
TIME	HHMMSS					0845	1455	1440	1150	1435	1420
SULFATE	PPM					1995.00					
TDS	PPM					7425.00					
BICARBONATE	PPM					330.00					
BORON	PPM					1.80					
CARBONATE	PPM					< 2.50					
CHLORIDE	PPM					2545.00					

SAMPLES: WBM
 SITE: BM D.VAIL4A BOYLE/MCKEN
 TYPE: 6 FILTERED-ACIDIFIED WITH HNO3 (1 ML 1:1)

LATITUDE : N3310.160
 LONGITUDE : W11537.825
 TOWN/RANGE: 11S13E33G

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD					760407	760428	760518	760609	760713	760825
TIME	HHMMSS					0845	1455	1440	1150	1435	1420
BARIUM	PPM					0.15					
CALCIUM	PPM					683.00					
LITHIUM	PPM					1.40					
MAGNESIUM	PPM					205.00					
POTASSIUM	PPM					55.00					
RUBIDIUM	PPM					0.10					
SODIUM	PPM					1550.00					
STRONTIUM	PPM					11.00					
ZINC	PPM					0.41					

SAMPLES: WBN
 SITE: BN POND ERDA/SOGE SETTL
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.855
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD							760519	760610	760716	760826
TIME	HHMMSS							0950	1100	0910	1035
TEMP-SOURCE	DEG. C							25.30	22.40	29.00	30.10
PH								8.35	8.50	7.80	8.10
CON-STANDARD	UMHO/CM							1528.00	2637.00	11550.00	1086.00

Table III-3. (Continued)

1 SAMPLES: WBN
 SITE: BN POND ERDA/SDGE SETTLE
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.855
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	761001		761027		761215	770114	770218			
TIME	HMMSS	0930		0930		0910	1440	1300			
TEMP-SOURCE	DEG. C	26.70		28.70		11.25	12.50	17.20			
PH		8.25		8.50		7.80	8.00	7.20			
CON-STANDARD	UMHO/CM	1545.00		1255.00		2159.00	2848.00	2486.00			

SAMPLES: WBO
 SITE: BO POND ERDA/SDGE SPRAY
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.925
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD							760519	760610	760716	760826
TIME	HMMSS							0915	1030	0940	1050
TEMP-SOURCE	DEG. C							32.50	23.10	29.40	24.90
PH								8.20	7.60	7.10	7.40
CON-STANDARD	UMHO/CM							2549.00	32480.00	45860.00	23530.00

SAMPLES: WBO
 SITE: BO POND ERDA/SDGE SPRAY
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.925
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	761001		761027		761215	770114	770218			
TIME	HMMSS	1020		0910		0915	1455	1315			
TEMP-SOURCE	DEG. C	30.10		22.80		15.20	16.10	16.30			
PH		7.65		8.30		8.03	7.80	7.40			
CON-STANDARD	UMHO/CM	18560.00		10460.00		5832.00	8807.00	8464.00			

Table III-3. (Continued)

1 SAMPLES: WBP
 SITE: BP POND ERDA/SDGE BRINE
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.975
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 01	TRIP 02	TRIP 03	TRIP 04	TRIP 05	TRIP 06	TRIP 07	TRIP 08	TRIP 09	TRIP 10
DATE	YYMMDD										
TIME	HMMSS									760716	760826
TEMP-SOURCE	DEG. C									1015	0930
PH										29.70	30.90
CON-STANDARD	UMHO/CM									8.20	8.15
										829.20	1695.00

SAMPLES: WBP
 SITE: BP POND ERDA/SDGE BRINE
 TYPE: • FIELD DATA

LATITUDE : N3309.800
 LONGITUDE : W11536.975
 TOWN/RANGE: 11S13E33R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD	760930		761027		761215	770114	770218			
TIME	HMMSS	1735		0800		0945	1510	1220			
TEMP-SOURCE	DEG. C	28.50		17.90		19.00	17.60	33.10			
PH		8.09		8.20		7.70	7.20	4.60			
CON-STANDARD	UMHO/CM	5737.00		5826.00		8977.00	51030.00	171500.00			

SAMPLES: WBO
 SITE: BQ D.VAIL4A BOYLE S FOS
 TYPE: • FIELD DATA

LATITUDE : N3309.95
 LONGITUDE : W11537.333
 TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761209		770215			
TIME	HMMSS					1600		1730			
TEMP-SOURCE	DEG. C					15.30		19.60			
PH						8.09		6.95			
CON-STANDARD	UMHO/CM					10150.00		6167.00			

Table III-3 (Continued)

1 SAMPLES: WBO

SITE: BQ

TYPE: 4

D.VAIL4A BOYLE S FOS

FILTERED-ACIDIFIED WITH HN03 (5 ML 1:1)

LATITUDE : N3309.95

LONGITUDE : W11537.333

TOWN/RANGE: 11S13E33K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761209		770215			
TIME	HMMSS					1600		1730			
SULFATE	PPM					1367.00					
BARIUM	PPM					< 0.50					
CADMIUM	PPM					< 0.05					
CALCIUM	PPM					542.00					
CESIUM	PPM					< 0.20					
CHLORIDE	PPM					2307.00					
CHROMIUM	PPM					< 0.30					
CUPRIC	PPM					0.05					
FLUORIDE	PPM					0.33					
IRON	PPM					< 0.10					
LEAD	PPM					< 0.10					
LITHIUM	PPM					2.00					
MAGNESIUM	PPM					174.00					
MANGANESE	PPM					1.00					
MERCURY	PPM					< 0.00					
MOLYBDENUM	PPM					< 0.30					
NICKEL	PPM					< 0.20					
POTASSIUM	PPM					64.00					
RUBIDIUM	PPM					0.06					
SILVER	PPM					0.02					
SODIUM	PPM					1179.00					
STRONTIUM	PPM					9.30					
VANADIUM	PPM					< 0.30					
ZINC	PPM					0.61					

SAMPLES: WBR

SITE: BR

TYPE: *

S.SALTON OFFSHORE

FIELD DATA

LATITUDE : N3311.02

LONGITUDE : W11539.333

TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HMMSS					1440					
TEMP-SOURCE	DEG. C					17.20					
PH						8.78					
CON-STANDARD	UMHO/CM					47360.00					

Table III-3. (Continued)

1 SAMPLES: WBR
 SITE: BR S.SALTON OFFSHORE
 TYPE: 2 FILTERED-UNACIDIFIED

LATITUDE : N3311.02
 LONGITUDE : W11539.333
 TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HMMSS					1440					
PH						8.50					
CON-STANDARD	UMHO/CM					65400.00					
HARDNESS	PPM					6980.00					
NITRITE	PPM					0.07					
PHOSPHATE	PPM					0.43					
SULFATE	PPM					7970.00					
ALKALINITY-P	PPM					52.00					
ACIDITY	PPM					0.					
TDS	PPM					38600.00					
BICARBONATE	PPM					143.00					
BORON	PPM					1.20					
CALCIUM	PPM					980.00					
CARBONATE	PPM					62.80					
CHLORIDE	PPM					15900.00					
FLUORIDE	PPM					0.83					
SILICA	PPM					0.32					

Table III-3 (Continued)

1 SAMPLES: WBR

SITE: BR

TYPE: 4

S.SALTON OFFSHORE

FILTERED-ACIDIFIED WITH HNO₃ (5 ML 1:1)

LATITUDE : N3311.02

LONGITUDE : W11539.333

TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HHMMSS					1440					
SULFATE	PPM					7245.00					
ARSENIC	PPM					< 0.10					
BARIUM	PPM					0.64					
BORON	PPM					8.67					
CADMIUM	PPM					0.07					
CALCIUM	PPM					850.25					
CESIUM	PPM					< 0.20					
CHLORIDE	PPM					12700.00					
CHROMIUM	PPM					0.04					
CUPRIC	PPM					0.08					
FLUORIDE	PPM					1.68					
IRON	PPM					0.16					
LEAD	PPM					0.40					
LITHIUM	PPM					2.61					
MAGNESIUM	PPM					1238.50					
MANGANESE	PPM					0.07					
MERCURY	PPM					0.00					
MOLYBDENUM	PPM					0.11					
NICKEL	PPM					0.22					
POTASSIUM	PPM					174.25					
RUBIDIUM	PPM					0.11					
SELENIUM	PPM					0.02					
SILVER	PPM					0.06					
SODIUM	PPM					9010.00					
STRONTIUM	PPM					13.50					
VANADIUM	PPM					< 1.00					
ZINC	PPM					0.07					

SAMPLES: WBR

SITE: BR

TYPE: 8

S.SALTON OFFSHORE

FILTERED-ACIDIFIED WITH H₂SO₄ (PH<2)

LATITUDE : N3311.02

LONGITUDE : W11539.333

TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HHMMSS					1440					
NITRATE	PPM					0.84					
AMMONIUM	PPM					< 0.50					
NITROGEN	PPM					0.83					

Ta III-3. (Continued)

1 SAMPLES: WBR
 SITE: BR S.SALTON OFFSHORE
 TYPE: 9 FILTERED-ACIDIFIED WITH HNO3 ULTREX PH<2

LATITUDE : N3311.02
 LONGITUDE : W11539.333
 TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HHMMSS					1440					
MERCURY	PPM					0.00					

SAMPLES: WBR
 SITE: BR S.SALTON OFFSHORE
 TYPE: A FILTERED, ZN ACETATE (2GM/L)

LATITUDE : N3311.02
 LONGITUDE : W11539.333
 TOWN/RANGE: 11S13E30K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761208					
TIME	HHMMSS					1440					
SULFIDE	PPM					< 0.05					

SAMPLES: WBS
 SITE: BS S.SALTON SHORE/LACK
 TYPE: • FIELD DATA

LATITUDE : N3310.160
 LONGITUDE : W11538.880
 TOWN/RANGE: 11S13E31H

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770217			
TIME	HHMMSS							1420			
TEMP-SOURCE	DEG. C							23.70			
PH								8.90			
CON-STANDARD	UMHO/CM							42080.00			

SAMPLES: WCA
 SITE: CA C.SPRUCE BRANDT/FRED
 TYPE: • FIELD DATA

LATITUDE : N3300.045
 LONGITUDE : W11533.615
 TOWN/RANGE: 13S14E19Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761214	770114	770220			
TIME	HHMMSS			1515	0850	1700	1110	0930			
TEMP-SOURCE	DEG. C			24.00	18.30	11.95	11.20	16.50			
PH				8.50	8.10	8.19	8.30	7.35			
CON-STANDARD	UMHO/CM			1428.00	1674.00	1531.00	2052.00	3129.00			

Table III-3. (Continued)

1 SAMPLES: WCB
 SITE: CB SUMP238 HOVLEY S AND
 TYPE: * FIELD DATA

LATITUDE : N3300.325
 LONGITUDE : W11532.595
 TOWN/RANGE: 13S14E20G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761215	770114				
TIME	HHMMSS			1600	0915	0525	1050				
TEMP-SOURCE	DEG. C			24.00	20.80	18.50	17.30				
PH				7.35	7.55	7.25	7.25				
CON-STANDARD	UMHO/CM			9281.00	13650.00	8390.00	10630.00				

SAMPLES: WCC
 SITE: CC D.SPRUCE1 HOV S ANDR
 TYPE: * FIELD DATA

LATITUDE : N3300.325
 LONGITUDE : W11532.568
 TOWN/RANGE: 13S14E20G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761215	770114				
TIME	HHMMSS			1620	0930	0549	1030				
TEMP-SOURCE	DEG. C			24.80	21.90	9.60	11.40				
PH				7.45	7.60	8.23	7.75				
CON-STANDARD	UMHO/CM			8127.00	11730.00	1853.00	2042.00				

111-84

SAMPLES: WCD
 SITE: CD SUMP89 HOVLEY/ANDRE
 TYPE: * FIELD DATA

LATITUDE : N3300.617
 LONGITUDE : W11532.605
 TOWN/RANGE: 13S14E17Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761215	770114	770220			
TIME	HHMMSS			1645	0945	0615	1010	1000			
TEMP-SOURCE	DEG. C			26.00	23.60	20.10	18.70	17.50			
PH				7.05	6.85	7.12	7.00	6.85			
CON-STANDARD	UMHO/CM			9010.00	12340.00	12090.00	11440.00	5585.00			

Table III-3. (Continued)

1 SAMPLES: WCE
 SITE: CE D.SPRUCE3 HOVL/ANDRE
 TYPE: * FIELD DATA

LATITUDE : N3300.617
 LONGITUDE : W11532.576
 TOWN/RANGE: 13S14E17Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761215	770114				
TIME	HHMMSS			1715	1000	0630	0950				
TEMP-SOURCE	DEG. C			25.90	23.20	18.70	10.60				
PH				7.30	7.10	7.33	8.10				
CON-STANDARD	UMHO/CM			9028.00	11930.00	12590.00	1875.00				

SAMPLES: WCF
 SITE: CF D.SPRUCE1 NEW DROP3
 TYPE: * FIELD DATA

LATITUDE : N3300.331
 LONGITUDE : W11531.418
 TOWN/RANGE: 13S14E21H

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761215	770114	770217			
TIME	HHMMSS			1030	1025	0656	0825	0830			
TEMP-SOURCE	DEG. C			19.00	16.80	7.65	6.20	13.50			
PH				8.20	8.10	7.87	8.00	6.80			
CON-STANDARD	UMHO/CM			1591.00	1554.00	2145.00	3120.00	1293.00			

SAMPLES: WCG
 SITE: CG D.SPRUCE3 NEW ANDRE
 TYPE: * FIELD DATA

LATITUDE : N3300.617
 LONGITUDE : W11531.265
 TOWN/RANGE: 13S14E16R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761215	770114	770217			
TIME	HHMMSS			1105	1045	0730	1140	0855			
TEMP-SOURCE	DEG. C			18.50	17.00	10.50	10.10	10.50			
PH				8.05	8.00	7.95	7.90	6.65			
CON-STANDARD	UMHO/CM			13790.00	3212.00	11560.00	4221.00	1741.00			

Table III-3. (Continued)

1 SAMPLES: WCH
SITE: CH D.SPRUCE NEW BAUGHM
TYPE: • FIELD DATA

LATITUDE : N3301.174
LONGITUDE : W11531.267
TOWN/RANGE: 13S14E09R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761215	770114	770217			
TIME	HMMSS			1140	1105	0800	1200	0925			
TEMP-SOURCE	DEG. C			21.10	20.30	8.80	12.60	13.90			
PH				8.20	7.70	8.24	7.80	7.00			
CON-STANDARD	UMHO/CM			5478.00	4029.00	3303.00	4625.00	4129.00			

SAMPLES: WCJ
SITE: CJ D.SPRUCE W HOVL BAUG
TYPE: • FIELD DATA

LATITUDE : N3301.187
LONGITUDE : W11533.075
TOWN/RANGE: 13S14E08N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761025	761111	761214	770114				
TIME	HMMSS			1740	0825	1655	1230				
TEMP-SOURCE	DEG. C			27.00	17.70	18.10	15.10				
PH				7.85	7.75	7.70	7.85				
CON-STANDARD	UMHO/CM			4945.00	4331.00	5683.00	4975.00				

SAMPLES: WCK
SITE: CK C.SPRUCE5 NR HOV/RUT
TYPE: • FIELD DATA

LATITUDE : N3301.767
LONGITUDE : W11532.077
TOWN/RANGE: 13S14E04N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761214	770113				
TIME	HMMSS			1215	0800	1630	1450				
TEMP-SOURCE	DEG. C			21.70	17.00	13.20	15.00				
PH				7.55	7.50	8.30	8.30				
CON-STANDARD	UMHO/CM			6210.00	5353.00	1523.00	1995.00				

Table III-3. (Continued)

1 SAMPLES: WCL
 SITE: CL R.NEW N RUTH/R111 BR
 TYPE: * FIELD DATA

LATITUDE : N3301.924
 LONGITUDE : W11531.540
 TOWN/RANGE: 13S14E04Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761108	761211	770113	770217			
TIME	HHMMSS			1300	1545	1500	1512	1030			
TEMP-SOURCE	DEG. C			21.40	20.20	13.60	12.60	16.70			
PH				7.70	7.50	7.40	7.50	6.70			
CON-STANDARD	UMHO/CM			7221.00	7302.00	7479.00	9646.00	7986.00			

SAMPLES: HCM
 SITE: CM D.BEST NEW RUTHERFO
 TYPE: * FIELD DATA

LATITUDE : N3301.764
 LONGITUDE : W11531.267
 TOWN/RANGE: 13S14E04R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761213	770113	770217			
TIME	HHMMSS			1400	0730	1625	1405	1000			
TEMP-SOURCE	DEG. C			20.90	14.50	13.60	13.20	14.00			
PH				8.60	8.00	8.45	8.30	6.70			
CON-STANDARD	UMHO/CM			5774.00	2902.00	1805.00	2214.00	2365.00			

SAMPLES: HCM
 SITE: CN C.ROCKWOOD JEFF/RUTH
 TYPE: * FIELD DATA

LATITUDE : N3301.787
 LONGITUDE : W11531.035
 TOWN/RANGE: 13S14E03N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761213	770113				
TIME	HHMMSS			1335	0705	1645	1350				
TEMP-SOURCE	DEG. C			21.60	17.80	11.70	11.60				
PH				8.75	8.20	8.10	8.20				
CON-STANDARD	UMHO/CM			1449.00	1518.00	1540.00	2032.00				

Table III-3. (Continued)

1 SAMPLES: WCP
 SITE: CP SUMP192 BEST NR WARD
 TYPE: * FIELD DATA

LATITUDE : N3300.906
 LONGITUDE : W11530.491
 TOWN/RANGE: 13S14E15G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761110	761214	770113				
TIME	HMMSS			1435	1510	1445	1230				
TEMP-SOURCE	DEG. C			25.20	24.00	20.90	19.30				
PH				7.00	6.75	6.92	7.40				
CON-STANDARD	UMHO/CM			13930.00	10200.00	7517.00	11290.00				

SAMPLES: WCO
 SITE: CO D.BEST BEST NR WARD
 TYPE: * FIELD DATA

LATITUDE : N3300.906
 LONGITUDE : W11530.491
 TOWN/RANGE: 13S14E15G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761110	761214	770113				
TIME	HMMSS			1515	1520	1500	1205				
TEMP-SOURCE	DEG. C			22.40	22.60	17.95	16.40				
PH				7.30	7.15	7.25	8.10				
CON-STANDARD	UMHO/CM			15820.00	10500.00	6983.00	2533.00				

SAMPLES: WCR
 SITE: CR D.LIVESLEY NEW/WARD
 TYPE: * FIELD DATA

LATITUDE : N3300.620
 LONGITUDE : W11531.022
 TOWN/RANGE: 13S14E15N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761111	761214	770113				
TIME	HMMSS			1650	0630	1550	1303				
TEMP-SOURCE	DEG. C			20.90	13.20	15.90	9.60				
PH				8.15	7.75	8.07	8.55				
CON-STANDARD	UMHO/CM			5665.00	7813.00	7445.00	2993.00				

Table III-3. (Continued)

1 SAMPLES: WCS

SITE: CS C.BEST BEST/SHANK
TYPE: * FIELD DATA

LATITUDE : N3300.046
LONGITUDE : W11530.491
TOWN/RANGE: 13S14E22Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD			761026	761110	761213	770113				
TIME	HHMMSS			1600	1445	1715	1140				
TEMP-SOURCE	DEG. C			21.90	22.00	13.05	11.60				
PH				8.40	8.15	8.45	8.20				
CON-STANDARD	UMHO/CM			1439.00	1596.00	1503.00	2032.00				

SAMPLES: WCT

SITE: CT SUMP289 BEST S RUTHE
TYPE: * FIELD DATA

LATITUDE : N3301.80
LONGITUDE : W11530.50
TOWN/RANGE: 13S14E11N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770220			
TIME	HHMMSS							1030			
TEMP-SOURCE	DEG. C							18.00			
PH								6.80			
CON-STANDARD	UMHO/CM							20920.00			

SAMPLES: WCU

SITE: CU C.BEST BEST S RUTHER
TYPE: * FIELD DATA

LATITUDE : N3301.80
LONGITUDE : W11530.52
TOWN/RANGE: 13S14E10R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770220			
TIME	HHMMSS							1050			
TEMP-SOURCE	DEG. C							15.00			
PH								7.10			
CON-STANDARD	UMHO/CM							3491.00			

Table III-3. (Continued)

1 SAMPLES: WCV
 SITE: CV C. ROCKWOOD R86/MEAD
 TYPE: • FIELD DATA

LATITUDE : N3257.383
 LONGITUDE : W11533.98
 TOWN/RANGE: 14S14E05N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770220			
TIME	HHMMSS							0825			
TEMP-SOURCE	DEG. C							15.50			
PH								7.10			
CON-STANDARD	UMHO/CM							3265.00			

SAMPLES: WEA
 SITE: EA C. CENT MAIN R98/RITT
 TYPE: • FIELD DATA

LATITUDE : N3241.162
 LONGITUDE : W11527.207
 TOWN/RANGE: 17S15E08K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761214	770111	770216			
TIME	HHMMSS		1140		1420	0540	0635	0755			
TEMP-SOURCE	DEG. C		23.60		19.90	10.92	10.90	14.40			
PH			8.30		8.00	8.00	8.05	7.05			
CON-STANDARD	UMHO/CM		1440.00		1448.00	1791.00	1930.00	1644.00			

SAMPLES: WEB
 SITE: EB CBEECH COLE/PRUETT
 TYPE: • FIELD DATA

LATITUDE : N3241.656
 LONGITUDE : W11530.606
 TOWN/RANGE: 17S14E02P

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013			761214	770111	770216			
TIME	HHMMSS		1230			0625	0715	0935			
TEMP-SOURCE	DEG. C		24.80			9.85	8.70	14.80			
PH			8.50			8.00	7.90	6.80			
CON-STANDARD	UMHO/CM		1455.00			1827.00	1969.00	1616.00			

Table III-3. (Continued)

1 SAMPLES: WEC
SITE: EC SUMP108 WARE N COLE
TYPE: • FIELD DATA

LATITUDE : N3241.954
LONGITUDE : W11531.443
TOWN/RANGE: 17S14E03K

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HMMSS		1310		0645	0650	0730	1005			
TEMP-SOURCE	DEG. C		24.50		22.40	20.60	15.40	17.90			
PH			6.95		6.95	7.10	7.00	7.10			
CON-STANDARD	UMHO/CM		6763.00		9493.00	8554.00	6051.00	8039.00			

SAMPLES: WED
SITE: ED C.BEECH W CLARK S WL
TYPE: • FIELD DATA

LATITUDE : N3242.094
LONGITUDE : W11534.190
TOWN/RANGE: 17S14E06H

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013			761214	770111	770216			
TIME	HMMSS		1430			0725	0805	1035			
TEMP-SOURCE	DEG. C		26.00			9.30	7.70	17.60			
PH			8.70			8.20	8.20	7.25			
CON-STANDARD	UMHO/CM		1469.00			1853.00	1947.00	1173.00			

SAMPLES: WEE
SITE: EE D.BEECH CLARK/WILLOU
TYPE: • FIELD DATA

LATITUDE : N3242.500
LONGITUDE : W11533.559
TOWN/RANGE: 17S14E05C

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HMMSS		1400		0730	0744	0830	1105			
TEMP-SOURCE	DEG. C		23.50		13.30	6.89	6.00	15.90			
PH			8.60		7.75	7.97	7.50	7.40			
CON-STANDARD	UMHO/CM		2576.00		8183.00	6888.00	7999.00	3661.00			

Table III-3. (Continued)

1 SAMPLES: WEF
 SITE: EF SUMP273 WARE N JASPR
 TYPE: * FIELD DATA

LATITUDE : N3242.939
 LONGITUDE : W11531.465
 TOWN/RANGE: 16S14E33J

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HMMSS		1500		0955	0925	1015	1525			
TEMP-SOURCE	DEG. C		26.50		23.40	20.40	17.10	17.60			
PH			7.10		6.95	7.08	6.90	6.80			
CON-STANDARD	UMHO/CM		7467.00		2375.00	5507.00	3442.00	1948.50			

SAMPLES: WEG
 SITE: EG SUMP321 FAWC W DOGWD
 TYPE: * FIELD DATA

LATITUDE : N3243.378
 LONGITUDE : W11532.480
 TOWN/RANGE: 16S14E32A

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HMMSS		1530		0930	1010	1055	1455			
TEMP-SOURCE	DEG. C		27.80		25.90	23.85	20.40	18.80			
PH			7.40		6.95	7.02	7.00	6.60			
CON-STANDARD	UMHO/CM		3971.00		4906.00	3274.00	5067.00	4251.00			

SAMPLES: WEH
 SITE: EH SUMP397 CORFM N WIL0
 TYPE: * FIELD DATA

LATITUDE : N3242.949
 LONGITUDE : W11532.992
 TOWN/RANGE: 16S14E32L

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HMMSS		1610		0910	0852	0955	1330			
TEMP-SOURCE	DEG. C		25.50		24.30	21.90	19.20	19.00			
PH			6.90		7.00	7.15	7.05	6.80			
CON-STANDARD	UMHO/CM		11870.00		10140.00	10870.00	10970.00	8523.00			

Table III-3. (Continued)

1 SAMPLES: WEI
 SITE: EI SUMPI37 W CLRK S WAH
 TYPE: • FIELD DATA

LATITUDE : N3242.964
 LONGITUDE : W11534.090
 TOWN/RANGE: 16S14E31M

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770216			
TIME	HHMMSS		1650		0840	0830	0915	1200			
TEMP-SOURCE	DEG. C		26.00		24.10	21.60	19.30	18.80			
PH			7.00		6.75	7.02	7.00	6.70			
CON-STANDARD	UMHO/CM		7149.00		7125.00	8584.00	8071.00	7420.00			

SAMPLES: WEJ
 SITE: EJ D.DATE E LBRUC S MCC
 TYPE: • FIELD DATA

LATITUDE : N3244.730
 LONGITUDE : W11534.111
 TOWN/RANGE: 16S14E19E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761214	770111	770218			
TIME	HHMMSS					1305	1400	1545			
TEMP-SOURCE	DEG. C					12.30	16.90	21.00			
PH						8.00	8.25	6.85			
CON-STANDARD	UMHO/CM					1691.00	9538.00	5436.00			

SAMPLES: WEK
 SITE: EK C.DATE CLARK/CORRELL
 TYPE: • FIELD DATA

LATITUDE : N3244.267
 LONGITUDE : W11533.535
 TOWN/RANGE: 16S14E30B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761110	761214	770111	770218			
TIME	HHMMSS		1715		1220	1233	1340	1505			
TEMP-SOURCE	DEG. C		25.00		21.60	13.10	13.70	18.70			
PH			8.10		8.30	8.25	8.40	7.10			
CON-STANDARD	UMHO/CM		1499.00		1502.00	1201.00	2058.00	3318.00			

Table III-3. (Continued)

1 SAMPLES: WEL
 SITE: EL D.DATE3 FARNSH/CORRL
 TYPE: • FIELD DATA

LATITUDE : N3244.258
 LONGITUDE : W11532.539
 TOWN/RANGE: 16S14E29B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761014		761110	761214	770111	770216			
TIME	HHMMSS		0730		1120	1140	1245	1640			
TEMP-SOURCE	DEG. C		22.80		21.70	16.20	12.70	20.10			
PH			7.30		8.15	7.70	8.00	7.45			
CON-STANDARD	UMHO/CM		7216.00		6050.00	9695.00	11860.00	2328.50			

SAMPLES: WEM
 SITE: EM C.DOGWOOD2 FARNS/COR
 TYPE: • FIELD DATA

LATITUDE : N3244.258
 LONGITUDE : W11532.518
 TOWN/RANGE: 16S14E29B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761014		761110	761214	770111	770216			
TIME	HHMMSS		0800		1140	1129	1305	1725			
TEMP-SOURCE	DEG. C		21.40		19.60	11.90	11.70	16.80			
PH			8.00		8.15	8.10	8.20	6.90			
CON-STANDARD	UMHO/CM		1401.00		1570.00	1600.00	2094.00	2060.00			

SAMPLES: WEN
 SITE: EN SUMP88 FARNSH/CORREL
 TYPE: • FIELD DATA

LATITUDE : N3244.258
 LONGITUDE : W11532.139
 TOWN/RANGE: 16S14E29B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761014		761110	761214	770111	770216			
TIME	HHMMSS		0820		1145	1110	1325	1700			
TEMP-SOURCE	DEG. C		27.00		25.20	23.05	21.00	20.10			
PH			7.05		7.20	7.42	7.30	6.65			
CON-STANDARD	UMHO/CM		8162.00		10950.00	9155.00	6196.00	6365.50			

Table III-3. (Continued)

1 SAMPLES: WEO

SITE: EO C.DOGWOOD DOGWD/CORL
TYPE: • FIELD DATA

LATITUDE : N3244.240
LONGITUDE : W11532.004
TOWN/RANGE: 16S14E28D

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761014		761110	761214	770111	770216			
TIME	HHMMSS		0840		1045	1050	1110	1620			
TEMP-SOURCE	DEG. C		22.20		19.20	11.65	10.80	17.50			
PH			8.00		8.20	8.07	8.10	7.20			
CON-STANDARD	UMHO/CM		1377.00		1584.00	1339.00	2073.00	1470.00			

SAMPLES: WEP

SITE: EP C.DAFFODIL PITZ/CORL
TYPE: • FIELD DATA

LATITUDE : N3244.272
LONGITUDE : W11531.010
TOWN/RANGE: 16S14E22N

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761014		761110	761214		770216			
TIME	HHMMSS		0915		1025	1025		1555			
TEMP-SOURCE	DEG. C		22.50		29.20	10.90		20.90			
PH			8.10		8.50	7.45		7.20			
CON-STANDARD	UMHO/CM		1421.00		1289.00	2068.00		1282.00			

SAMPLES: WER

SITE: ER C.DAHLIA LBRUC NR WL
TYPE: • FIELD DATA

LATITUDE : N3242.609
LONGITUDE : W11534.580
TOWN/RANGE: 16S13E36R

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD				761110	761214	770111	770216			
TIME	HHMMSS				0815	0810	0900	1130			
TEMP-SOURCE	DEG. C				18.60	10.95	10.80	19.90			
PH					8.00	8.12	8.05	6.90			
CON-STANDARD	UMHO/CM				1548.00	1680.00	1797.00	1336.00			

Table III-3. (Continued)

1 SAMPLES: WES
SITE: ES SUMP264 R86/CORFMAN
TYPE: * FIELD DATA

LATITUDE : N3243.817
LONGITUDE : W11533.00
TOWN/RANGE: 16S14E29L

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770216			
TIME	HMMSS							1425			
TEMP-SOURCE	DEG. C							19.90			
PH								6.80			
CON-STANDARD	UMHO/CM							12510.00			

SAMPLES: WET
SITE: ET SUMP323 CORFMN S R86
TYPE: * FIELD DATA

LATITUDE : N3243.383
LONGITUDE : W11533.00
TOWN/RANGE: 16S14E32C

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770216			
TIME	HMMSS							1400			
TEMP-SOURCE	DEG. C							19.50			
PH								6.70			
CON-STANDARD	UMHO/CM							9552.00			

SAMPLES: WEU
SITE: EU SUMP375 DOGWD/WILLOU
TYPE: * FIELD DATA

LATITUDE : N3242.475
LONGITUDE : W11531.98
TOWN/RANGE: 17S14E03D

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770216			
TIME	HMMSS							1300			
TEMP-SOURCE	DEG. C							16.85			
PH								6.80			
CON-STANDARD	UMHO/CM							7699.00			

Table III-3. (Continued)

1 SAMPLES: WGA
SITE: GA C.EASTHL S NOR/EHL16
TYPE: • FIELD DATA

LATITUDE : N3249.404
LONGITUDE : W11516.996
TOWN/RANGE: 15S16E26A

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770219			
TIME	HHMMSS		0830		0855	1210	1115	1015			
TEMP-SOURCE	DEG. C		23.00		19.00	11.60	11.00	15.10			
PH			8.00		8.05	8.00	8.05	6.80			
CON-STANDARD	UMHO/CM		1406.00		1477.00	1355.00	1925.00	2736.00			

SAMPLES: WGB
SITE: GB D.EHL14 S NOR W EHL
TYPE: • FIELD DATA

LATITUDE : N3249.043
LONGITUDE : W11516.953
TOWN/RANGE: 15S16E26J

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770219			
TIME	HHMMSS		0905		0940	1240	1135	0950			
TEMP-SOURCE	DEG. C		26.20		25.20	23.30	21.10	15.00			
PH			7.70		7.60	7.60	7.60	6.75			
CON-STANDARD	UMHO/CM		1414.00		1393.00	1242.00	1953.00	3740.00			

III-97

SAMPLES: WGC
SITE: GC D.HLTVLMAIN EHL14 D
TYPE: • FIELD DATA

LATITUDE : N3249.078
LONGITUDE : W11518.662
TOWN/RANGE: 15S16E27E

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770219			
TIME	HHMMSS		0745		0820	1130	1040	1040			
TEMP-SOURCE	DEG. C		21.80		20.40	17.70	16.80	19.00			
PH			7.95		7.85	7.75	8.00	6.80			
CON-STANDARD	UMHO/CM		2992.00		3194.00	2692.00	4302.00	6023.00			

Table III-3. (Continued)

1 SAMPLES: WGD
 SITE: GD D.HLTVLMAIN EHL13 C
 TYPE: * FIELD DATA

LATITUDE : N3248.609
 LONGITUDE : W11516.879
 TOWN/RANGE: 15S16E35A

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770219			
TIME	HMMSS		0930		0945	1310	1145	0930			
TEMP-SOURCE	DEG. C		25.50		25.40	24.60	23.30	21.00			
PH			7.75		7.50	7.62	7.70	6.80			
CON-STANDARD	UMHO/CM		1484.00		1388.00	1410.00	1915.00	4022.00			

SAMPLES: WGE
 SITE: GE D.HLTVL2C EHL11 C
 TYPE: * FIELD DATA

LATITUDE : N3247.742
 LONGITUDE : W11516.744
 TOWN/RANGE: 16S16E01D

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770219			
TIME	HMMSS		1005		1010	1345	1240	0905			
TEMP-SOURCE	DEG. C		25.80		24.40	23.35	23.20	21.05			
PH			8.00		7.70	7.82	7.90	6.70			
CON-STANDARD	UMHO/CM		1672.00		1618.00	1344.00	2074.00	4452.00			

III-98

SAMPLES: WGF
 SITE: GF D.WARREN S80/GRAESER
 TYPE: * FIELD DATA

LATITUDE : N3246.838
 LONGITUDE : W11517.549
 TOWN/RANGE: 16S16E11C

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761012		761109	761212	770112	770219			
TIME	HMMSS		1800		1040	1030	1445	0840			
TEMP-SOURCE	DEG. C		25.20		24.00	21.75	21.00	19.00			
PH			7.80		7.70	7.80	8.00	6.75			
CON-STANDARD	UMHO/CM		2388.00		2958.00	2567.00	2718.00	6137.00			

Table III-3. (Continued)

1 SAMPLES: WGG

SITE: GG

TYPE: *

D. WARREN S80/18

FIELD DATA

LATITUDE : N3246.060

LONGITUDE : W11516.309

TOWN/RANGE: 16S16E12P

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761013		761109	761212	770112	770218			
TIME	HMMSS		1035		1100	1530	1305	1730			
TEMP-SOURCE	DEG. C		22.00		18.50	14.90	14.60	17.90			
PH			7.60		7.55	7.55	7.65	6.80			
CON-STANDARD	UMHO/CM		1968.00		1954.00	1625.00	2014.00	4544.00			

SAMPLES: WGH

SITE: GH

TYPE: *

C. EASTHL S80/18

FIELD DATA

LATITUDE : N3246.060

LONGITUDE : W11516.260

TOWN/RANGE: 16S16E12Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761012		761109	761212	770112	770218			
TIME	HMMSS		1705		1210	1600	1320	1715			
TEMP-SOURCE	DEG. C		23.80		19.70	12.00	11.30	16.30			
PH			8.20		8.02	8.00	8.00	6.90			
CON-STANDARD	UMHO/CM		1434.00		1510.00	1408.00	1911.00	3144.00			

66-111

SAMPLES: WGI

SITE: GI

TYPE: *

SLOUGH 6-2 EAST MESA

FIELD DATA

LATITUDE : N3247.070

LONGITUDE : W11515.176

TOWN/RANGE: 16S17E06Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD		761012		761109	761212	770112	770219			
TIME	HMMSS		1528		1135	1432	1355	1415			
TEMP-SOURCE	DEG. C		31.70		24.20	16.60	21.20	24.00			
PH			8.80		8.50	8.22	8.50	8.70			
CON-STANDARD	UMHO/CM		36930.00		38600.00	27490.00	23810.00	23460.00			

Table III-3. (Continued)

I SAMPLES: WGJ
SITE: GJ
TYPE: •

H.DATE CITY STORE
FIELD DATA

LATITUDE : N3247.558
LONGITUDE : W11518.575
TOWN/RANGE: 16S16E03C

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HMMSS							1220			
TEMP-SOURCE	DEG. C							19.00			
PH								7.30			
CON-STANDARD	UMHO/CM							3977.00			

SAMPLES: WGK
SITE: GK
TYPE: •

H.OLD ALAMO SCHOOL
FIELD DATA

LATITUDE : N3245.967
LONGITUDE : W11518.133
TOWN/RANGE: 16S16E15B

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HMMSS							1250			
TEMP-SOURCE	DEG. C							30.10			
PH								7.60			
CON-STANDARD	UMHO/CM							4436.00			

SAMPLES: WGL
SITE: GL
TYPE: •

SUMP NUSSBAUM OGROVE
FIELD DATA

LATITUDE : N3248.192
LONGITUDE : W11516.517
TOWN/RANGE: 15S16E36F

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HMMSS							1325			
TEMP-SOURCE	DEG. C							18.50			
PH								6.80			
CON-STANDARD	UMHO/CM							6149.00			

Table III-3. (Continued)

1 SAMPLES: WGM
SITE: GM W.AMERICO FUSI
TYPE: * FIELD DATA

LATITUDE : N3248.667
LONGITUDE : W11520.183
TOWN/RANGE: 15S16E29Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HHMMSS							1530			
TEMP-SOURCE	DEG. C							31.00			
PH								7.50			
CON-STANDARD	UMHO/CM							1336.00			

SAMPLES: WGN
SITE: GN W.AMERICO FUSI JR
TYPE: * FIELD DATA

LATITUDE : N3248.667
LONGITUDE : W11521.35
TOWN/RANGE: 15S16E30Q

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HHMMSS							1555			
TEMP-SOURCE	DEG. C							38.00			
PH								7.75			
CON-STANDARD	UMHO/CM							5642.00			

III-101

SAMPLES: WGO
SITE: GO W.RS GARWELL
TYPE: * FIELD DATA

LATITUDE : N3250.567
LONGITUDE : W11518.533
TOWN/RANGE: 15S16E15P

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD							770219			
TIME	HHMMSS							1625			
TEMP-SOURCE	DEG. C							31.00			
PH								7.40			
CON-STANDARD	UMHO/CM							2137.00			

Table III-3. (Continued)

1 SAMPLES: WIA
 SITE: 1A ISCO SET / SITE BM
 TYPE: * FIELD DATA

LATITUDE : N3310.16
 LONGITUDE : W11537.825
 TOWN/RANGE: 11S13E33G

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					761209					
TIME	HHMMSS					1515					
TEMP-SOURCE	DEG. C					20.89					
PH						7.79					
CON-STANDARD	UMHO/CM					10383.60					

III-102

Table III-3. (Continued)

1 SAMPLES: WLM

SITE: LM

TYPE: 4

**
FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE :

LONGITUDE :

TOWN/RANGE:

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					770101					
TIME	HMMSS										
PH						7.53					
NITRATE	PPM					1.64					
SULFATE	PPM					539.19					
TDS	PPM					1161.00					
ARSENIC	PPM					0.27					
BARIUM	PPM					0.67					
BICARBONATE	PPM					24.50					
BORON	PPM					0.42					
CADMIUM	PPM					0.00					
CALCIUM	PPM					115.84					
CESTUM	PPM					< 0.20					
CHLORIDE	PPM					247.44					
CHROMIUM	PPM					0.00					
CUPRIC	PPM					0.02					
FLUORIDE	PPM					0.93					
IRON	PPM					0.04					
LEAD	PPM					0.03					
LITHIUM	PPM					0.03					
MAGNESIUM	PPM					69.60					
MANGANESE	PPM					0.10					
MERCURY	PPM					0.17					
MOLYBDENUM	PPM					0.03					
NICKEL	PPM					0.01					
POTASSIUM	PPM					7.62					
RUBIDIUM	PPM					0.04					
SELENIUM	PPM					0.08					
SILICA	PPM					11.20					
SILVER	PPM					0.01					
SODIUM	PPM					160.21					
STRONTIUM	PPM					1.15					
VANADIUM	PPM					0.00					
ZINC	PPM					0.03					

Table III-3. (Concluded)

1 SAMPLES: HNS
SITE: NS
TYPE: 4

..
FILTERED-ACIDIFIED WITH HNO3 (5 ML 1:1)

LATITUDE :
LONGITUDE :
TOWN/RANGE:

PARAMETER	UNIT	TRIP 11	TRIP 12	TRIP 13	TRIP 14	TRIP 15	TRIP 16	TRIP 17	TRIP 18	TRIP 19	TRIP 20
DATE	YYMMDD					770101					
TIME	HHMMSS										
SULFATE	PPM					394.89					
ALUMINUM	PPM					0.19					
ARSENIC	PPM					0.18					
BARIUM	PPM					0.68					
BERYLLIUM	PPM					0.03					
BORON	PPM					1.37					
CADMIUM	PPM					0.02					
CALCIUM	PPM					99.46					
CESIUM	PPM					< 0.20					
CHLORIDE	PPM					510.40					
CHROMIUM	PPM					0.03					
COBALT	PPM					0.01					
CUPRIC	PPM					0.19					
FLUORIDE	PPM					1.59					
IRON	PPM					0.71					
LEAD	PPM					0.05					
LITHIUM	PPM					0.34					
MAGNESIUM	PPM					250.66					
MANGANESE	PPM					0.14					
MERCURY	PPM					0.02					
MOLYBDENUM	PPM					0.04					
NICKEL	PPM					0.03					
POTASSIUM	PPM					13.51					
RUBIDIUM	PPM					0.07					
SELENIUM	PPM					0.05					
SILVER	PPM					0.02					
SODIUM	PPM					208.66					
STRONTIUM	PPM					0.30					
VANADIUM	PPM					0.00					
ZINC	PPM					1.41					

III-104

ECOSYSTEM QUALITY

Element Leader: Joseph H. Shinn
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, California 94550

FTS: 457-4613
Comm: (415) 447-1100 Ext. 4613

The Ecosystem Quality group is organized into seven task-specific teams:

1. Site-specific baselines

2. Shoreline habitats

3. Aquatic studies

a. Salton Sea fishes

b. Pileworm and freshwater studies

4. Agriculture

5. Desert habitats

6. Consumptive water use

7. Air pollution effects

Most of these teams are supported by one or more contracts. All of the desert habitat studies are being performed by personnel of the Laboratory for Nuclear Medicine and Radiation Biology at the University of California at Los Angeles (UCLA). The UCLA work is funded directly by the ERDA Division of Biomedical and Environmental Research.

A major portion of the site-specific baseline studies is being performed through the Environmental Protection Agency's Environmental Monitoring and Support Laboratory at Las Vegas. The EPA studies are funded entirely by the EPA. The EPA is also conducting sampling of agricultural materials with internal funds.

The data contained in this Section are incomplete. Many of the ecological studies are oriented toward the investigation of effects through experimental studies. Such data were excluded from this report which deals only with baseline data. Effects research will be reported separately in interpretative reports such as Shinn, et al.⁵ The ecosystem group is supported by 15 subcontracts, which are detailed in Reference 2. It was not possible to incorporate the results of all these contracted studies in this report. In particular, data pertaining to habitats of endangered and other pertinent species and data on bird flight paths have not been included. Also, due to the short time-period between the request for data and the target date for this report, the UCLA team was not able to provide all of their data and the EPA was not able to provide details of their agricultural samples. The fault for these omissions lies with LLL, and not with UCLA or EPA.

ECOSYSTEM QUALITY

SITE-SPECIFIC BASELINES

LLL Team Leader: John J. Koranda
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, California 94550

FTS: 457-4065
Commercial: (415) 447-1100 Ext. 4065

The LLL Site-Specific Baselines Team has concentrated on the collection of samples in the Salton Sea KGRA near the SDG&E/ERDA facility and the now abandoned SCE test facility. The location of these facilities and many of the sample collection sites are indicated in Fig. IV-1. Additional collections have been made at various locations in the Valley. All samples collected by this team are identified by Township, Range, Section, and Subsection location. The general location map Fig. I-1 and the Section-Subsection grid of Fig. I-2 may be used to locate these sampling sites.

The collected samples of soil, sediment, vegetation, and fertilizers are listed in Tables IV-1 to IV-4. These Tables are ordered by location and subordered by Sample Number.

The presently available results of chemical analyses of soil, sediment, and vegetation samples are given in Tables IV-5 to IV-7. These three Tables are ordered by Sample Number. All analytical results are expressed as parts per million dry weight.

KEY

* Geothermal wells

o Sumps

A,B,G,L EPA Monitoring and Support Lab. samples**X** LLL crop and soil samples

Fig. IV-1. Map showing locations where site-specific baseline samples were collected during FY 1976 in the Salton Sea Known Geothermal Resource Area.

Table IV-1. List of site-specific baseline samples of soil collected by LLL. The list is ordered by Collection Site and subordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VKS000A	11S13E26E	760203	SOIL	0-3IN.
VKS000B	11S13E26E	760203	SOIL	3-6IN.
VKS001A	11S13E27N	760203	SOIL	0-3IN.
VKS001B	11S13E27N	760203	SOIL	3-6IN.
VKS018A	11S13E32P	760203	SOIL	0-3IN.
VKS018B	11S13E32P	760203	SOIL	3-6IN.
VKS019A	11S13E32R	760203	SOIL	0-3IN.
VKS019B	11S13E32R	760203	SOIL	3-6IN.
VKS005A	11S13E33A	760203	SOIL	0-3IN.
VKS005B	11S13E33A	760203	SOIL	3-6IN.
VKS004A	11S13E33B	760203	SOIL	0-3IN.
VKS004B	11S13E33B	760203	SOIL	3-6IN.
VKS003A	11S13E33C	760203	SOIL	0-3IN.
VKS003B	11S13E33C	760203	SOIL	3-6IN.
VKS002A	11S13E33D	760203	SOIL	0-3IN.
VKS002B	11S13E33D	760203	SOIL	3-6IN.
VKS011A	11S13E33G	760203	SOIL	0-3IN.
VKS011B	11S13E33G	760203	SOIL	3-6IN.
VKS012A	11S13E33J	760203	SOIL	0-3IN.
VKS012B	11S13E33J	760203	SOIL	3-6IN.
VKS010A	11S13E33L	760203	SOIL	0-3IN.
VKS010B	11S13E33L	760203	SOIL	3-6IN.
VKS009A	11S13E33M	760203	SOIL	0-3IN.
VKS009B	11S13E33M	760203	SOIL	3-6IN.
VKS020A	11S13E33N	760203	SOIL	0-3IN.
VKS020B	11S13E33N	760203	SOIL	3-6IN.
VKS021A	11S13E33P	760203	SOIL	0-3IN.
VKS021B	11S13E33P	760203	SOIL	3-6IN.
VKS055A	11S13E33Q	760203	SOIL	0-3IN.
VKS055B	11S13E33Q	760203	SOIL	3-6IN.
VKS022A	11S13E33R	760203	SOIL	0-3IN.
VKS022B	11S13E33R	760203	SOIL	3-6IN.
VKS056A	11S13E33R	760203	SOIL	0-3IN.
VKS056B	11S13E33R	760203	SOIL	3-6IN.
VKS008A	11S13E34A	760203	SOIL	0-3IN.
VKS008B	11S13E34A	760203	SOIL	3-6IN.
VKS007A	11S13E34C	760203	SOIL	0-3IN.
VKS007B	11S13E34C	760203	SOIL	3-6IN.
VKS006A	11S13E34D	760203	SOIL	0-3IN.
VKS006B	11S13E34D	760203	SOIL	3-6IN.
VKS014A	11S13E34J	760203	SOIL	0-3IN.
VKS014B	11S13E34J	760203	SOIL	3-6IN.
VKS013A	11S13E34L	760203	SOIL	0-3IN.
VKS013B	11S13E34L	760203	SOIL	3-6IN.
VKS023A	11S13E34N	760203	SOIL	0-3IN.
VKS023B	11S13E34N	760203	SOIL	3-6IN.
VKS024A	11S13E34P	760203	SOIL	0-3IN.
VKS024B	11S13E34P	760203	SOIL	3-6IN.
VKS025A	11S13E34Q	760203	SOIL	0-3IN.
VKS025B	11S13E34Q	760203	SOIL	3-6IN.

Table IV-1. (Continued)

VKS016A	11S13E35H	760203	SOIL	0-3IN.
VKS016B	11S13E35H	760203	SOIL	3-6IN.
VKS015A	11S13E35L	760203	SOIL	0-3IN.
VKS015B	11S13E35L	760203	SOIL	3-6IN.
VKS036A	12S13E02F	760203	SOIL	0-3IN.
VKS036B	12S13E02F	760203	SOIL	3-6IN.
VKS037A	12S13E02H	760203	SOIL	0-3IN.
VKS037B	12S13E02H	760203	SOIL	3-6IN.
VKS033A	12S13E03B	760203	SOIL	0-3IN.
VKS033B	12S13E03B	760203	SOIL	3-6IN.
VKS032A	12S13E03C	760203	SOIL	0-3IN.
VKS032B	12S13E03C	760203	SOIL	3-6IN.
VKS031A	12S13E03D	760203	SOIL	0-3IN.
VKS031B	12S13E03D	760203	SOIL	3-6IN.
VKS035A	12S13E03H	760203	SOIL	0-3IN.
VKS035B	12S13E03H	760203	SOIL	3-6IN.
VKS044A	12S13E03N	760203	SOIL	0-3IN.
VKS044B	12S13E03N	760203	SOIL	3-6IN.
VKS046A	12S13E03Q	760203	SOIL	0-3IN.
VKS046B	12S13E03Q	760203	SOIL	3-6IN.
VKS030A	12S13E04A	760203	SOIL	0-3IN.
VKS030B	12S13E04A	760203	SOIL	3-6IN.
VKS029A	12S13E04B	760203	SOIL	0-3IN.
VKS029B	12S13E04B	760203	SOIL	3-6IN.
VKS028A	12S13E04C	760203	SOIL	0-3IN.
VKS028B	12S13E04C	760203	SOIL	3-6IN.
VKS027A	12S13E04D	760203	SOIL	0-3IN.
VKS027B	12S13E04D	760203	SOIL	3-6IN.
VKS040A	12S13E04M	760203	SOIL	0-3IN.
VKS040B	12S13E04M	760203	SOIL	3-6IN.
VKS041A	12S13E04P	760203	SOIL	0-3IN.
VKS041B	12S13E04P	760203	SOIL	3-6IN.
VKS042A	12S13E04Q	760203	SOIL	0-3IN.
VKS042B	12S13E04Q	760203	SOIL	3-6IN.
VKS043A	12S13E04R	760203	SOIL	0-3IN.
VKS043B	12S13E04R	760203	SOIL	3-6IN.
VKS026A	12S13E05B	760203	SOIL	0-3IN.
VKS026B	12S13E05B	760203	SOIL	3-6IN.
VKS034A	12S13E05E	760203	SOIL	0-3IN.
VKS034B	12S13E05E	760203	SOIL	3-6IN.
VKS038A	12S13E05N	760203	SOIL	0-3IN.
VKS038B	12S13E05N	760203	SOIL	3-6IN.
VKS039A	12S13E05R	760203	SOIL	0-3IN.
VKS039B	12S13E05R	760203	SOIL	3-6IN.
VKS047A	12S13E08F	760203	SOIL	0-3IN.
VKS047B	12S13E08F	760203	SOIL	3-6IN.
VKS048A	12S13E08H	760203	SOIL	0-3IN.
VKS048B	12S13E08H	760203	SOIL	3-6IN.
VKS049A	12S13E09F	760203	SOIL	0-3IN.
VKS049B	12S13E09F	760203	SOIL	3-6IN.
VKS050A	12S13E09H	760203	SOIL	0-3IN.
VKS050B	12S13E09H	760203	SOIL	3-6IN.
VKS051A	12S13E10F	760203	SOIL	0-3IN.
VKS051B	12S13E10F	760203	SOIL	3-6IN.
VKS052A	12S13E10H	760203	SOIL	0-3IN.
VKS052B	12S13E10H	760203	SOIL	3-6IN.
VKS053A	12S13E11F	760203	SOIL	0-3IN.
VKS053B	12S13E11F	760203	SOIL	3-6IN.
VKS054A	12S13E11H	760203	SOIL	0-3IN.
VKS054B	12S13E11H	760203	SOIL	3-6IN.

Table IV-1. (Concluded)

VKS1060	12S14E28B	761019	SOIL	0-3IN.
VKS1160	13S12E10E	761020	SOIL	0-3IN.
VKT-12	13S13E01B	750923	SOIL	0-6IN.
VKT-13	13S13E01B	750923	SOIL	6-12IN.
VKT-14	13S13E01B	750923	SOIL	12-18IN.
VKT-15	13S13E01B	750923	SOIL	18-24IN.
VKT-16	13S13E01B	750923	SOIL	24-31IN.
VKT-17	13S13E01B	750923	SOIL	31-37IN.
VKS081A	13S13E01B	761020	SOIL	0-3IN.
VKS1070	13S14E09B	761019	SOIL	0-3IN.
VKS1080	13S14E21Q	761019	SOIL	0-3IN.
VKS1170	13S15E01C	761020	SOIL	0-3IN.
VKS1150	14S12E10G	761019	SOIL	0-3IN.
VKS0671	14S13E22R	761019	SOIL	BLUFF-XS
VKS0683	14S13E22R	761019	SOIL	BLUFF-XS
VKS0695	14S13E22R	761019	SOIL	BLUFF-XS
VKS0707	14S13E22R	761019	SOIL	BLUFF-XS
VKS0719	14S13E22R	761019	SOIL	BLUFF-XS
VKS0725	14S13E22R	761019	SOIL	BLUFF-XS
VKS1090	14S14E03Q	761019	SOIL	0-3IN.
VKS0821	14S14E07D	761020	SOIL	PROFILE
VKS0831	14S14E07D	761020	SOIL	PROFILE
VKS0843	14S14E07D	761020	SOIL	PROFILE
VKS0855	14S14E07D	761020	SOIL	PROFILE
VKS0867	14S14E07D	761020	SOIL	PROFILE
VKS0879	14S14E07D	761020	SOIL	PROFILE
VKS088M	14S14E07D	761020	SOIL	PROFILE
VKS089N	14S14E07D	761020	SOIL	PROFILE
VKS090Q	14S14E07D	761020	SOIL	PROFILE
VKS091S	14S14E07D	761020	SOIL	PROFILE
VKS092U	14S14E07D	761020	SOIL	PROFILE
VKS093W	14S14E07D	761020	SOIL	PROFILE
VKS0941	14S14E07D	761020	SOIL	PROFILE
VKS0951	14S14E07D	761020	SOIL	PROFILE
VKS0961	14S14E07D	761020	SOIL	PROFILE
VKS0973	14S14E07D	761020	SOIL	PROFILE
VKS0985	14S14E07D	761020	SOIL	PROFILE
VKS0997	14S14E07D	761020	SOIL	PROFILE
VKS1009	14S14E07D	761020	SOIL	PROFILE
VKS101N	14S14E07D	761020	SOIL	PROFILE
VKS102Q	14S14E07D	761020	SOIL	PROFILE
VKS103S	14S14E07D	761020	SOIL	PROFILE
VKS104U	14S14E07D	761020	SOIL	PROFILE
VKS105W	14S14E07D	761020	SOIL	PROFILE
VKS0600	14S15E19G	761020	SOIL	BLUFF-XS
VKS0611	14S15E19G	761020	SOIL	BLUFF-XS
VKS0623	14S15E19G	761020	SOIL	BLUFF-XS
VKS0635	14S15E19G	761020	SOIL	BLUFF-XS
VKS0647	14S15E19G	761020	SOIL	BLUFF-XS
VKS0659	14S15E19G	761020	SOIL	BLUFF-XS
VKS066S	14S15E19G	761020	SOIL	BLUFF-XS
VKS1180	14S16E21L	761020	SOIL	0-3IN.
VKS1100	15S14E03B	761019	SOIL	0-3IN.
VKS1110	15S14E23N	761019	SOIL	0-3IN.
VKS1120	16S14E02N	761019	SOIL	0-3IN.
VKS1130	16S14E23D	761019	SOIL	0-3IN.
VKS1140	17S14E11R	761019	SOIL	0-3IN.

Table IV-2. List of site-specific baseline samples of sediment collected by LLL. The list is ordered by Collection Site and subordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****		
VKT059A	08S23W36	761020	SEDIMENT	RIVER	COLO.	SUSPENDED
VKT-07	11S12E24E	750923	SEDIMENT	RIVER	ALAMO	SUSPENDED
VKT077	11S13E15K	760701	SEDIMENT	SEA	SALTON	SUSPENDED
VKT302	11S13E15K	760701	SEDIMENT	SEA	SALTON	SUSPENDED
VKX302	11S13E15K	760701	SEDIMENT	SEA	SALTON	BOTTOM
VKT0790	11S13E22H	760629	SEDIMENT	RIVER	ALAMO	BOTTOM
VKT0800	11S13E22H	760629	SEDIMENT	RIVER	ALAMO	BOTTOM
VKT303	11S13E22H	760629	SEDIMENT	RIVER	ALAMO	SUSPENDED
VKX303	11S13E22H	760629	SEDIMENT	RIVER	ALAMO	BOTTOM
VKT0730	12S12E	760609	SEDIMENT	RIVER	NEW	BOTTOM
VKT0740	12S12E24E	760629	SEDIMENT	RIVER	NEW	BOTTOM
VKT0741	12S12E24E	760629	SEDIMENT	RIVER	NEW	BOTTOM
VKT0751	12S12E24E	760629	SEDIMENT	RIVER	NEW	BOTTOM
VKT0760	12S12E24E	760629	SEDIMENT	RIVER	NEW	BOTTOM
VKT304	12S12E24E	760629	SEDIMENT	RIVER	NEW	SUSPENDED
VKX304	12S12E24E	760629	SEDIMENT	RIVER	NEW	BOTTOM
VKT-05	12S13E25N	750923	SEDIMENT	RIVER	NEW	SUSPENDED
VKT-01	17S16E12A	750923	SEDIMENT	RIVER	ALAMO	SUSPENDED
VKT-03	17S19E03C	750923	SEDIMENT	CANAL	ALL-AMERICA	SUSPENDED
VKT078	17S19E03C	760630	SEDIMENT	CANAL	ALL-AMERICA	SUSPENDED

Table IV-3. List of site-specific baseline samples of vegetation collected by LLL. The list is ordered by Collection Site and subordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VKP001	11S13E27N	760203	VEGETATION	ALFALFA LEAF
VKP001D	11S13E27N	760203	VEGETATION	GRASS LEAF
VKP003	11S13E33C	760203	VEGETATION	BARLEY
VKP008D	11S13E33C	760203	VEGETATION	GRASS
VKP011	11S13E33G	760203	VEGETATION	ALFALFA
VKP012	11S13E33J	760203	VEGETATION	SUGAR-BEET LEAF
VKP057	11S13E33L	751023	VEGETATION	SUGAR-BEET LEAF
VKP058	11S13E33L	751023	VEGETATION	COTTON LEAF
VKP061	11S13E33L	761208	VEGETATION	SUGAR-BEET LEAF
VKP062	11S13E33L	761208	VEGETATION	SUGAR-BEET ROOT
VKP062A	11S13E33L	761208	VEGETATION	SUGAR-BEET LEAF
VKP056	11S13E33R	760203	VEGETATION	GRASS
VKP008	11S13E34A	760203	VEGETATION	GRASS
VKP014	11S13E34J	760203	VEGETATION	SUGAR-BEET LEAF
VKP060	11S13E34N	761208	VEGETATION	LETTUCE LEAF
VKP025	11S13E34Q	760203	VEGETATION	SUGAR-BEET LEAF
VKP036	12S13E02F	760204	VEGETATION	SUGAR-BEET LEAF
VKP037	12S13E02H	760203	VEGETATION	SUGAR-BEET LEAF
VKP033	12S13E03B	760203	VEGETATION	SUGAR-BEET LEAF
VKP035	12S13E03H	760203	VEGETATION	SUGAR-BEET LEAF
VKP046	12S13E03Q	760203	VEGETATION	SUGAR-BEET LEAF
VKP028	12S13E04C	760204	VEGETATION	SUGAR-BEET LEAF
VKP026	12S13E05B	760203	VEGETATION	SUGAR-BEET LEAF
VKP034	12S13E05E	760203	VEGETATION	SUGAR-BEET LEAF
VKP038	12S13E05N	760203	VEGETATION	SUGAR-BEET LEAF
VKP039	12S13E05R	760203	VEGETATION	SUGAR-BEET LEAF
VKP048	12S13E08H	760203	VEGETATION	SUGAR-BEET LEAF
VKP049	12S13E09F	760203	VEGETATION	LETTUCE LEAF
VKP053	12S13E11F	760203	VEGETATION	LETTUCE LEAF
VKP054	12S13E11H	760203	VEGETATION	SUGAR-BEET LEAF
VKP106	12S14E28B	761019	VEGETATION	SUGAR-BEET LEAF
VKP-21	13S13E01B	750923	VEGETATION	ALFALFA
VKP-21A	13S13E01B	750923	VEGETATION	ALFALFA
VKP-03	13S13E01B	761019	VEGETATION	ALFALFA
VKP107	13S14E09B	761019	VEGETATION	ALFALFA
VKP109	13S14E21Q	761019	VEGETATION	COTTON LEAF
VKP117	13S15E01C	761020	VEGETATION	ALFALFA LEAF
VKP059	14S14E07D	761208	VEGETATION	LETTUCE LEAF
VKP059A	14S14E07D	761208	VEGETATION	LETTUCE LEAF
VKP063	14S14E07D	770119	VEGETATION	LETTUCE LEAF
VKP110	15S14E03B	761019	VEGETATION	COTTON LEAF
VKP113	16S14E23D	761019	VEGETATION	ALFALFA
VKP114	17S14E11R	761019	VEGETATION	SUDANGRASS

Table IV-4. List of site-specific baseline samples of fertilizer collected by LLL. The list is ordered by Collection Site and subordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VKX300	G.M. IDAHO	761015	OTHER	FERTILIZER
VKX301	G.M. IDAHO	761015	OTHER	FERTILIZER
VKX-18	USDA	760203	OTHER	FERTILIZER
VKX307	USDA	7606**	OTHER	FERTILIZER
VKX308	USDA	7606**	OTHER	FERTILIZER
VKX306	USDA	760701	OTHER	FERTILIZER
VKX305	14S14E07F	760701	OTHER	FERTILIZER

Table IV-5. Results of chemical analyses of site-specific samples of soil collected by LLL. Results are ordered by Sample Number.

SAMPLE	LOCATION	DATE	** SAMPLE **	AL CA FE K MG	CL NA TI ZR U	BA MN RB SR ZN	AS CO CE CR TS	GA LA NO TH V	BR CS DY SC SH	HF MO TA YB SB	EU IN LU
VKS001A	11S13E27N	760203	SOIL 0-3IN.	5.703E+04 5.039E+04 2.727E+04 1.814E+04 2.645E+04	5.242E+03 3.579E+03 1.192E+02 1.199E+02 3.123E+00	4.883E+02 4.681E+02 1.192E+02 2.531E+02 8.353E+01	8.323E+00 1.030E+01 5.582E+01 4.723E+01 8.820E-01	1.997E+01 3.471E+01 2.876E+01 1.058E+01 5.816E+01	0.000E+00 7.239E+00 4.396E+00 8.888E+00 5.514E+00	4.859E+00 1.079E+00 2.649E+00 8.263E-01	8.913E-01 5.653E-01 2.649E+00 8.263E-01
VKS002A	11S13E33D	760203	SOIL 0-3IN.	5.480E+04 5.284E+04 2.792E+04 1.871E+04 1.795E+04	8.823E+02 7.107E+03 3.190E+03 1.553E+02 3.470E+00	4.730E+02 4.495E+02 1.252E+02 2.430E+02 8.265E+01	8.289E+00 1.057E+01 8.844E+01 4.881E+01 8.933E-01	2.414E+01 3.498E+01 3.204E+01 1.088E+01 9.870E+01	0.000E+00 7.295E+00 4.243E+00 1.009E+01 5.854E+00	5.441E+00 1.124E-01 1.050E+00 2.606E+00 8.922E-01	8.245E-01 1.124E-01 7.397E-01 2.606E+00 8.922E-01
VKS008A	11S13E34A	760203	SOIL 0-3IN.	5.077E+04 3.981E+04 2.564E+04 1.823E+04 1.828E+04	2.155E+02 5.708E+03 4.238E+03 1.179E+02 2.986E+00	6.330E+02 4.445E+02 6.204E+01 2.381E+02 8.410E+01	8.899E+00 9.875E+00 2.654E+01 4.708E+01 6.327E-01	3.098E+01 6.504E+00 4.387E+00 1.008E+01 6.819E+01	0.000E+00 6.504E+00 9.652E-01 8.842E+00 5.199E+00	5.348E+00 1.671E+00 4.387E+00 2.305E+00 8.170E-01	8.454E-01 5.976E-01 2.305E+00 8.170E-01
VKS009A	11S13E33M	760203	SOIL 0-3IN.	6.381E+04 4.753E+04 2.885E+04 1.948E+04 2.077E+04	5.809E+03 3.864E+03 1.240E+02 1.240E+02 2.734E+00	4.817E+02 4.558E+02 1.255E+02 5.346E+01 9.328E+01	9.485E+00 1.027E+01 6.719E+01 1.104E+01 6.419E-01	1.622E+01 3.529E+01 3.177E+01 1.005E+01 9.496E+01	0.000E+00 7.208E+00 4.576E+00 1.005E+01 5.659E+00	4.838E+00 4.168E+00 1.099E+00 2.546E+00 9.138E-01	7.926E-01 1.198E-01 6.931E-01 2.546E+00 9.138E-01
VKS010A	11S13E33L	760203	SOIL 0-3IN.	5.657E+04 4.902E+04 2.818E+04 1.901E+04 1.911E+04	4.750E+03 1.080E+04 3.803E+03 1.243E+02 2.850E+00	5.248E+02 4.547E+02 1.252E+02 2.730E+02 8.281E+01	9.555E+00 1.012E+01 6.498E+01 5.143E+01 6.313E-01	1.201E+01 3.503E+01 3.042E+01 1.075E+01 1.010E+02	0.000E+00 7.021E+00 3.955E+00 9.735E+00 5.567E+00	4.596E+00 3.268E+00 9.960E-01 2.380E+00 8.893E-01	8.099E-01 4.183E-01 2.380E+00 8.893E-01
VKS011A	11S13E33G	760203	SOIL 0-3IN.	4.886E+04 4.296E+04 2.545E+04 1.814E+04 1.691E+04	1.346E+03 8.785E+03 2.858E+03 1.919E+02 3.047E+00	6.478E+02 4.876E+02 1.186E+02 3.211E+02 1.170E+02	8.898E+00 9.569E+00 6.172E+01 4.555E+01 6.417E-01	1.791E+01 3.069E+01 2.872E+01 1.005E+01 8.150E+01	0.000E+00 6.905E+00 4.359E+00 9.067E+00 5.399E+00	5.122E+00 2.250E-01 1.026E+00 2.338E+00 8.501E-01	9.088E-01 4.538E-01 5.655E-01 2.338E+00 8.501E-01
VKS012A	11S13E33J	760203	SOIL 0-3IN.	5.362E+04 4.195E+04 2.716E+04 1.895E+04 1.648E+04	6.505E+02 4.519E+02 2.947E+03 8.881E+01 3.002E+00	5.778E+02 1.008E+01 1.242E+02 2.621E+02 9.169E+01	8.893E+00 3.174E+01 6.655E+01 4.748E+01 6.346E-01	1.934E+01 7.015E+00 2.978E+01 1.070E+01 8.240E+01	0.000E+00 1.335E+00 4.086E+00 9.681E+00 5.397E+00	4.897E+00 1.335E+00 1.003E+00 2.435E+00 9.571E-01	8.561E-01 8.105E-02 6.184E-01 2.435E+00 9.571E-01
VKS016A	11S13E35H	760203	SOIL 0-3IN.	5.368E+04 5.597E+04 2.539E+04 1.889E+04 1.893E+04	5.985E+03 4.248E+02 1.173E+02 1.351E+02 2.494E+00	5.439E+02 9.259E+00 6.158E+01 2.611E+02 9.251E+01	1.603E+01 3.293E+01 2.800E+01 4.631E+01 6.065E-01	1.571E+01 3.293E+01 2.800E+01 9.789E+00 8.502E+01	0.000E+00 6.392E+00 4.347E+00 8.899E+00 5.219E+00	4.933E+00 3.273E+00 9.473E-01 2.316E+00 9.104E-01	7.562E-01 2.589E-01 4.032E-01 2.316E+00 9.104E-01
VKS018A	11S13E32P	760203	SOIL 0-3IN.	5.723E+04 3.534E+04 2.790E+04 1.837E+04 1.719E+04	3.594E+01 4.794E+03 2.898E+03 1.114E+02 2.699E+00	4.697E+02 4.932E+02 1.242E+02 2.424E+02 1.128E+02	8.708E+00 1.020E+01 6.540E+01 4.778E+01 6.758E-01	2.311E+01 3.338E+01 2.753E+01 1.060E+01 9.172E+01	0.000E+00 7.042E+00 9.687E-01 9.848E+00 5.359E+00	4.351E+00 6.273E-01 9.687E-01 2.384E+00 9.636E-01	8.582E-01 6.634E-01 5.121E-01 2.384E+00 9.636E-01

Table IV-5. (Continued)

SAMPLE	LOCATION	DATE	** SAMPLE **	AL CA FE K MO	CL NA TI ZN U	BA MN RB SR ZN	AS CO CE CR TB	GA LA ND TH V	BR CS DY SC SH	HF MO TA YB SB	EU IN LU
VKS019A	11S13E32R	760203	SOIL 0-3IN.	4.826E+04 3.999E+04 2.333E+04 1.898E+04 2.683E+04	1.820E+04 1.559E+04 1.050E+02 7.186E+01 2.974E+00	4.589E+02 4.230E+02 5.691E+01 2.811E+02 8.407E+01	8.228E+00 8.485E+00 2.476E+01 4.215E+01 5.705E-01		4.201E+00 5.766E+00 4.172E+00 8.291E+00 4.629E+00	4.361E+00 3.911E+00 8.594E-01 2.067E+00 8.863E-01	7.300E-01 4.511E-01
VKS020A	11S13E33N	760203	SOIL 0-3IN.	6.007E+04 4.779E+04 3.070E+04 1.882E+04 1.892E+04	3.250E+02 5.593E+03 2.938E+03 1.187E+02 2.879E+00	4.462E+02 5.026E+02 1.321E+02 2.431E+02 8.493E+01	1.010E+01 1.131E+01 6.831E+01 6.092E+01 6.582E-01	1.582E+01 3.856E+01 3.164E+01 1.117E+01 9.554E+01	0.000E+00 7.635E+00 4.331E+00 1.080E+01 5.751E+00	4.543E+00 2.738E+00 1.014E+00 2.450E+00 9.556E-01	8.629E-01 6.080E-02 5.777E-01
VKS021A	11S13E33P	760203	SOIL 0-3IN.	5.442E+04 5.733E+04 2.670E+04 2.050E+04 2.197E+00	7.389E+01 6.681E+03 3.580E+03 1.244E+02 2.577E+00	5.023E+02 4.898E+02 1.178E+02 2.282E+02 8.280E+01	8.760E+00 1.016E+01 6.528E+01 4.960E+01 6.423E-01	1.781E+01 3.472E+01 3.067E+01 1.039E+01 8.371E+01	0.000E+00 6.623E+00 4.397E+00 9.322E+00 5.800E+00	5.175E+00 3.594E+00 9.835E-01 2.391E+00 8.625E-01	7.808E-01 8.872E-02 7.261E-01
VKS022A	11S13E33R	760203	SOIL 0-3IN.	1.021E+04 4.049E+04 2.194E+04 1.867E+04 2.460E+04	4.737E+03 1.153E+04 1.600E+03 1.727E+02 2.181E+00	5.408E+02 4.492E+02 1.062E+02 2.463E+02 6.958E+01	6.889E+00 8.639E+00 5.733E+01 4.288E+01 5.841E-01	1.501E+01 3.001E+01 2.702E+01 8.845E+00 4.007E+01	0.000E+00 5.191E+00 4.239E+00 7.699E+00 4.872E+00	5.967E+00 3.517E+00 8.874E-01 2.328E+00 7.606E-01	7.659E-01 5.769E-01
VKS027A	12S13E04D	760203	SOIL 0-3IN.	1.343E+04 5.267E+04 2.799E+04 1.840E+04 1.817E+04	1.805E+02 6.538E+03 1.697E+03 1.335E+02 3.291E+00	4.775E+02 4.892E+02 1.228E+02 2.348E+02 8.305E+01	9.224E+00 1.043E+01 6.563E+01 5.291E+01 6.673E-01	2.079E+01 3.528E+01 3.190E+01 1.056E+01 3.401E+01	0.000E+00 6.981E+00 4.449E+00 9.770E+00 5.748E+00	4.969E+00 1.948E+00 1.104E+00 2.454E+00 8.978E-01	8.302E-01 1.050E-01 7.237E-01
VKS028A	12S13E04C	760203	SOIL 0-3IN.	1.138E+04 4.059E+04 2.828E+04 1.875E+04 1.818E+04	5.448E+01 6.210E+03 1.621E+03 1.312E+02 2.844E+00	4.592E+02 4.900E+02 1.278E+02 2.485E+02 8.871E+01	9.832E+00 1.033E+01 7.006E+01 6.038E+01 6.571E-01	1.696E+01 3.537E+01 2.935E+01 1.087E+01 3.303E+01	0.000E+00 7.114E+00 4.356E+00 9.823E+00 5.635E+00	5.073E+00 2.496E+00 1.042E+00 2.548E+00 9.240E-01	7.847E-01 7.852E-02 7.360E-01
VKS029A	12S13E04B	760203	SOIL 0-3IN.	1.094E+04 3.888E+04 2.468E+04 1.921E+04 2.060E+04	6.879E+01 6.861E+03 1.615E+03 1.597E+02 2.713E+00	5.606E+02 4.737E+02 1.183E+02 2.732E+02 8.555E+01	7.713E+00 9.241E+00 6.577E+01 5.201E+01 8.444E-01	1.532E+01 3.286E+01 3.014E+01 1.040E+01 3.011E+01	0.000E+00 6.242E+00 4.328E+00 8.693E+00 5.502E+00	5.865E+00 3.197E+00 9.811E-01 2.478E+00 7.888E-01	7.109E-01 4.180E-01
VKS030A	12S13E04A	760203	SOIL 0-3IN.	6.139E+04 5.516E+04 2.885E+04 1.938E+04 3.051E+04	8.507E+02 5.934E+03 4.501E+03 1.039E+02 3.134E+00	5.429E+02 5.402E+02 1.270E+02 2.287E+02 1.132E+02	1.002E+01 1.048E+01 7.098E+01 5.953E+01 6.387E-01	1.881E+01 3.810E+01 3.036E+01 1.160E+01	0.000E+00 7.494E+00 4.756E+00 1.011E+01 5.920E+00	4.547E+00 3.508E+00 9.962E-01 2.472E+00 8.467E-01	7.665E-01 9.277E-01 2.695E-01
VKS032A	12S13E03C	760203	SOIL 0-3IN.	6.067E+04 5.067E+04 3.009E+04 1.772E+04 1.759E+04	3.857E+02 4.504E+03 3.093E+03 1.078E+02 3.460E+00	4.758E+02 4.801E+02 1.285E+02 2.227E+02 8.318E+01	9.948E+00 1.091E+01 6.988E+01 5.002E+01 7.003E-01		0.000E+00 7.788E+00 4.425E+00 1.067E+01 5.560E+00	4.489E+00 1.451E+00 1.023E+00 2.583E+00 9.282E-01	8.808E-01 7.336E-01

SAMPLE	LOCATION	DATE	..	SAMPLE	..	AL	CL	BA	AS	GA	BR	MF	EU
						CA	NA	PA	CO	LA	CS	MO	IN
						FE	TI	RB	CE	NO	DY	TA	LU
						K	ZR	SR	CR	TH	SC	YB	
						MG	U	ZN	TB	V	SH	SB	
WKS037A	12513E05E	760203	501L	0-31N.		5.139E+04		5.859E+02	8.702E+00	2.262E+01	0.000E+00	5.126E+00	8.271E-01
						5.498E+04	6.017E+03	4.800E+02	9.671E+00	3.206E+01	6.414E+00	1.671E-01	
						2.868E+04	2.895E+03	1.130E+02	6.339E+01	2.640E+01	4.297E+00	9.374E-01	7.126E-01
						1.716E+04	9.991E+01	2.655E+02	4.655E+01	1.012E+01	9.105E+00	2.593E+00	
						1.417E+04	3.274E+00	9.180E+01	6.496E-01	7.446E+01	5.366E+00	9.316E-01	
WKS037A	12513E02H	760203	501L	0-31N.		4.435E+04	9.268E+03	4.184E+02	9.560E+00		0.000E+00	5.295E+00	7.683E-01
						5.230E+04	7.753E+03	4.494E+02	9.682E+00	3.236E+01	7.151E+00	6.812E+00	9.255E+00
						2.774E+04	2.895E+03	1.132E+02	6.339E+01	2.632E+01	6.390E+00	9.443E-01	6.090E-01
						1.772E+04	1.235E+02	2.684E+02	4.590E+01	1.046E+01	9.752E+00	2.276E+00	
						1.566E+04	2.547E+00	9.690E+01	6.211E-01	8.355E+01	5.158E+00	9.571E-01	
WKS042A	12513E04Q	760203	501L	0-31N.		5.292E+04	5.746E+03	4.678E+02	8.866E+00	2.961E+01	0.000E+00	4.550E+00	8.725E-01
						4.677E+04	6.966E+03	4.543E+02	9.590E+00	3.198E+01	6.727E+00	4.184E+01	1.167E+01
						2.634E+04	2.470E+03	1.184E+02	6.260E+01	2.778E+01	3.659E+00	9.269E-01	7.361E-01
						1.776E+04	7.274E+01	3.406E+02	4.572E+01	1.057E+01	9.205E+00	2.303E+00	
						1.693E+04	2.896E+00	8.526E+01	6.183E-01	7.966E+01	5.027E+00	6.666E-01	
WKS047A	12513E08F	760203	501L	0-31N.		4.691E+04	2.309E+03	5.654E+02	6.344E+00	1.552E+01	0.000E+00	6.340E+00	7.353E-01
						5.338E+04	1.018E+04	4.371E+02	8.197E+00	2.692E+01	4.680E+00	2.466E+00	
						2.950E+04	3.724E+03	1.662E+02	5.795E+01	2.763E+01	4.113E+00	8.339E-01	6.591E-01
						1.954E+04	1.629E+02	2.223E+02	4.657E+01	8.645E+00	7.166E+00	2.351E+00	
						1.649E+04	2.705E+00	6.779E+01	6.619E-01	7.300E+01	5.121E+00	6.744E-01	
WKS051A	12513E10F	760203	501L	0-31N.		5.494E+04	2.596E+02	4.789E+02	6.745E+00		0.000E+00	4.919E+00	8.356E-01
						4.767E+04	5.539E+03	5.002E+02	1.076E+01	3.255E+01	7.121E+00	2.245E+00	
						2.747E+04	1.406E+02	2.784E+02	4.661E+01	1.835E+01	4.422E+00	1.017E+00	7.032E-01
						1.678E+04	1.406E+02	2.784E+02	4.661E+01	1.835E+01	4.422E+00	1.017E+00	
						2.592E+04	2.651E+00	6.578E+01	6.533E-01		5.426E+00	8.440E-01	
WKS057A	12513E11H	760203	501L	0-31N.		4.654E+04	4.500E+02	4.690E+02	7.645E+00	2.659E+01	0.000E+00	7.151E+00	7.397E-01
						4.274E+04	5.819E+03	4.225E+02	9.144E+00	2.860E+01	5.743E+00	0.000E+00	
						2.230E+04	3.005E+03	1.042E+02	5.607E+01	2.527E+01	3.645E+00	8.460E-01	7.268E-01
						1.540E+04	1.756E+02	2.600E+02	4.286E+01	9.397E+00	6.051E+00	2.449E+00	
						1.594E+04	2.745E+00	7.674E+01	5.866E-01	5.102E+01	4.759E+00	7.149E-01	
WKS055A	11513E33Q	760203	501L	0-31N.		4.793E+04	2.146E+03	4.693E+02	7.649E+00	1.426E+01	0.000E+00	5.987E+00	7.831E-01
						4.944E+04	9.256E+03	4.713E+02	4.492E+00	3.186E+01	5.539E+00	2.115E+00	5.211E-02
						2.263E+04	3.195E+02	1.108E+02	6.190E+01	2.881E+01	4.014E+00	8.182E+01	6.174E-01
						1.676E+04	1.525E+02	2.478E+02	5.046E+01	9.236E+01	7.181E+00	2.246E+00	
						1.781E+04	2.629E+00	8.446E+01	5.982E-01	7.218E+01	5.241E+00	7.669E-01	
WKS056A	11513E33R	760203	501L	0-31N.		5.859E+04	1.541E+03	4.056E+02	1.049E+01	2.054E+01	0.000E+00	5.092E+00	7.460E-01
						4.016E+04	7.407E+03	4.842E+02	9.494E+00	3.444E+01	6.950E+00	3.010E+00	7.045E-02
						2.751E+04	3.366E+03	1.230E+02	6.839E+01	3.300E+01	4.375E+00	9.745E-01	5.842E-01
						1.685E+04	1.086E+02	2.682E+02	4.937E+01	1.065E+01	9.600E+00	2.399E+00	
						2.831E+04	3.189E+00	8.411E+01	6.345E-01	8.441E+01	5.683E+00	8.530E-01	
WKT-12	13513E01B	750923	901L	0-61N.		3.046E+04	6.304E+03	4.896E+02	4.342E+00	1.092E+01	4.211E+00	5.315E+00	5.363E-01
						3.396E+04	8.935E+03	2.893E+01	4.429E+01	2.395E+01	3.802E+00	1.366E+00	
						1.922E+04	2.677E+03	8.935E+01	4.429E+01	1.695E+01	2.821E+00	5.939E-01	2.806E-01
						1.547E+04	1.169E+02	1.726E+02	2.779E+01	6.394E+00	3.265E+00	1.629E+00	
						1.701E+04	1.819E+00	4.869E+01	4.126E-01	4.611E+01	3.216E+00	5.321E-01	

Table IV-5. (Concluded)

SAMPLE	LOCATION	DATE	** SAMPLE **	AL CA FE K MG	CL NA TI ZR U	BA MN RB SR ZN	AS CO CE CR TB	GA LA ND TH V	BR CS DY SC SM	HF MO TA YB SB	EU IN LU
VKT-13	13S13E01B	750923	SOIL 6-12IN.	3.697E+04 3.633E+04 1.538E+04 1.575E+04 1.100E+04	1.488E+02 2.882E+03 2.286E+03 1.382E+02 1.693E+00	5.104E+02 2.884E+02 8.468E+01 2.263E+02 4.633E+01	8.322E+00 5.858E+00 4.248E+01 2.698E+01 3.988E-01	1.243E+01 2.284E+01 1.809E+01 6.371E+00 4.380E+01	4.412E+00 3.693E+00 2.524E+00 5.534E+00 3.480E+00	4.610E+00 1.653E+00 6.230E-01 1.579E+00 8.347E-01	5.471E-01 5.639E-02 3.786E-01
VKT-14	13S13E01B	750923	SOIL 12-18IN	3.403E+04 3.253E+04 1.268E+04 1.658E+04 9.167E+03	8.451E+02 7.365E+03 1.735E+03 1.377E+02 1.615E+00	4.890E+02 2.648E+02 8.098E+01 1.904E+02 3.511E+01	4.829E+00 4.894E+00 3.802E+01 2.214E+01 3.892E-01		2.038E+01 2.998E+00 1.754E+01 2.637E+00 4.069E+01	5.297E+00 1.197E+00 5.778E-01 1.524E+00 3.630E+00	4.963E-01 1.197E+00 3.816E-01
VKT-15	13S13E01B	750923	SOIL 18-24IN	4.014E+04 3.468E+04 1.231E+04 1.727E+04 1.294E+04	1.047E+03 7.552E+03 2.059E+03 1.455E+02 1.328E+00	5.298E+02 2.877E+02 7.981E+01 1.941E+02 4.057E+01	4.852E+00 4.787E+00 3.564E+01 2.295E+01 3.224E-01		1.936E+01 2.754E+00 1.515E+01 4.991E+00 2.983E-01	5.547E+00 5.189E-01 1.200E+00 4.375E+00 4.596E-01	4.513E-01 3.609E-01
VKT-16	13S13E01B	750923	SOIL 24-31IN	3.858E+04 3.723E+04 1.427E+04 1.733E+04 1.039E+04	1.306E+03 8.329E+03 2.149E+03 1.734E+02 1.514E+00	5.278E+02 3.153E+02 8.604E+01 1.847E+02 4.613E+01	3.064E+00 5.417E+00 4.060E+01 2.951E+01 4.169E-01		2.039E+01 3.154E+00 1.775E+01 5.695E+00 3.623E+01	6.798E+00 5.664E-01 5.033E+00 3.920E+00 5.205E-01	4.903E-01
VKT-17	13S13E01B	750923	SOIL 31-37IN	3.888E+04 3.754E+04 1.688E+04 1.711E+04 1.544E+04	1.147E+03 8.286E+03 2.165E+03 1.822E+02 1.903E+00	5.613E+02 3.409E+02 9.308E+01 1.803E+02 5.245E+01	5.264E+00 6.379E+00 5.242E+01 3.180E+01 4.741E-01	1.148E+01 2.701E+01 2.219E+01 7.394E+00 5.884E+01	2.207E+00 3.718E+00 3.271E+00 5.868E+00 4.027E+00	7.237E+00 6.578E-01 2.140E+00 5.648E-01	5.348E-01 6.407E-01

Table IV-6. Results of chemical analyses of site-specific samples of sediment collected by LLL. Results are ordered by Sample Number.

SAMPLE	LOCATION	DATE	** SAMPLE **	AL CA FE K MG	CL NA TI ZR U	BA HN RB SR ZN	AS CO CE CR TB	GA LA NO TH V	BR CS DY SC SM	HF MO TA YB SB	EU IN LU
VKT-01	17S16E12A	750923	SEDIMENT RIVE	6.142E+04 5.037E+04 2.877E+04 1.756E+04 5.901E+04	1.755E+03 5.117E+03 1.213E+02 6.099E+01 2.620E+00	4.127E+02 3.854E+03 7.615E+01 2.057E+02 1.406E+02	1.276E+01 1.368E+01 3.119E+01 4.711E+01 5.789E-01	1.485E+01 3.872E+01 3.119E+01 1.031E+01	8.937E+00 7.384E+00 3.884E+00 1.011E+01 4.992E+00	3.489E+00 3.161E+00 8.762E-01 2.096E+00 1.340E+00	7.498E-01 3.636E-01
VKT-05	12S13E25N	750923	SEDIMENT RIVE	6.076E+04 4.817E+04 2.708E+04 1.845E+04 1.860E+04	4.707E+03 7.958E+03 1.246E+02 1.005E+02 2.518E+00	4.513E+02 8.030E+02 1.246E+02 2.393E+02 9.611E+01	8.033E+00 9.730E+00 6.079E+01 4.699E+01 5.700E-01	3.222E+01 2.651E+01 2.651E+01 9.586E+00 1.086E+02	7.068E+00 9.798E+00 4.840E+00 9.267E+00 5.041E+00	4.415E+00 2.813E+00 8.081E-01 2.185E+00 8.153E-01	7.394E-01 5.827E-01
VKT302	11S13E15K	760701	SEDIMENT SEA	5.437E+04 1.951E+04	8.753E+04 4.106E+02	2.507E+02 5.518E+02 6.266E+01 4.106E+02	1.466E+01 6.200E+00 3.408E+01 5.502E+00	9.065E+01 4.177E+00 1.354E+01 5.233E+00	1.998E+00 3.501E+00 4.727E-01 1.160E+00	4.095E-01 2.897E-01	
VKT303	11S13E22H	760629	SEDIMENT RIVE	4.907E+04 3.044E+04 1.915E+04 3.923E+04	5.247E+03 8.977E+03 8.747E+01 3.054E+00	8.506E+02 1.215E+02 3.107E+02 1.256E+02	1.050E+01 1.127E+01 7.700E+01 6.356E-01	2.763E+01 3.637E+01 3.169E+01 1.113E+01	0.000E+00 7.967E+00 4.573E+00 1.092E+01	4.059E+00 8.896E-01 1.032E+00 2.464E+00	8.340E-01 5.659E-01
VKT304	12S12E24E	760629	SEDIMENT RIVE	5.345E+04 5.549E+04 3.074E+04 1.800E+04 1.801E+04	2.992E+03 6.883E+03 2.828E+03 1.035E+02 2.944E+00	4.868E+02 8.561E+02 1.315E+02 2.897E+02 1.229E+02	1.682E+01 1.038E+01 6.892E+01 6.296E+01 6.397E-01	2.470E+01 3.632E+01 2.904E+01 1.058E+01 9.119E+01	0.000E+00 1.208E+01 4.256E+00 1.056E+01 5.343E+00	4.436E+00 1.943E+00 1.014E+00 2.584E+00 8.225E-01	8.459E-01 1.022E+01 6.985E-01

Table IV-7. Results of chemical analyses of site-specific samples of vegetation collected by LLL. Results are ordered by Sample Number.

SAMPLE	COLLECTION SITE	DATE	***** SAMPLE *****		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKP-21	13S13E01B	750923	VEGETATION ALFALFA	LEAF	2.146E+04 2.994E+02 4.837E+00	3.808E+01 4.598E+01 5.292E+00	2.115E+01 1.915E+01 1.241E+02			
VKP-21A	13S13E01B	750923	VEGETATION ALFALFA	LEAF	2.656E+05 1.866E+03 1.266E+04	3.083E+02 4.850E+02 4.921E+01	9.945E+04 1.903E+02 8.039E+00	1.042E+03 6.805E+04 4.234E+01		
VKP001	11S13E27N	760203	VEGETATION ALFALFA	LEAF	1.167E+04 6.037E+02 7.331E+00	1.921E+01 1.010E+01 1.336E+01	2.220E+01 2.718E+01 3.739E+02 1.456E+00			
VKP0010	11S13E27N	760203	VEGETATION GRASS	LEAF	1.257E+04 9.952E+02 4.301E+03	2.449E+01 1.064E+01 1.85E+01	3.106E-01 2.992E+04 1.806E+01	2.972E+01 6.058E+01 8.360E+00	3.927E-01 3.895E+02 1.677E+00	1.509E+04 4.213E+00
VKP008	11S13E34A	760203	VEGETATION GRASS	LEAF	3.132E+04 1.501E+02 4.940E+00	4.148E+01 4.039E+00 6.358E+01	1.997E+01 2.450E+03 5.546E+01	6.048E+01		
VKP008D	11S13E33C	760203	VEGETATION GRASS	LEAF	3.096E+04 2.493E+02 1.673E+04	4.135E+01 4.284E+00 5.661E+00	3.854E-01 3.463E+03 7.292E+01	1.990E+01 6.322E+01 7.354E+01	1.513E+00 4.134E+04 1.591E+00	
VKP011	11S13E33G	760203	VEGETATION ALFALFA	LEAF	2.059E+04 1.257E+03 1.180E+01	3.956E+01 9.294E+00 2.230E+01	2.587E+01 5.567E+01 3.820E+02 7.217E+00			
VKP012	11S13E33J	760203	VEGETATION SUGAR-BEET	LEAF	1.812E+04 2.360E+03 1.011E+01	5.551E+01 1.175E+01 2.889E+01	2.422E+01 1.356E+02 4.588E+00	9.729E+01 1.483E+01		
VKP014	11S13E34J	760203	VEGETATION SUGAR-BEET	LEAF	3.108E+04 8.576E+02 9.315E+00	3.620E+01 6.180E+00 3.036E+01	2.985E+01 9.123E+03 1.226E+01	9.642E+01 6.237E+00		
VKP025	11S13E34Q	760203	VEGETATION SUGAR-BEET	LEAF	2.940E+04 8.701E+02 4.697E+00	3.656E+01 7.266E+00 1.957E+01	2.259E+01 1.109E+02 9.467E+01 4.324E+00			
VKP026	12S13E05B	760203	VEGETATION SUGAR-BEET	LEAF	3.727E+04 1.083E+03 5.888E+00	3.835E+01 8.879E+00 2.773E+01	8.628E-01 9.811E+03 3.304E+00	2.275E+01 2.458E+02 5.029E+00		
VKP028	12S13E04C	760204	VEGETATION SUGAR-BEET	LEAF	2.231E+04 1.552E+03 7.884E+00	3.766E+01 9.124E+00 6.648E+01	2.243E+01 1.967E+02 1.002E+02 1.205E+01			
VKP033	12S13E03B	760203	VEGETATION SUGAR-BEET	LEAF	2.513E+04 1.709E+03 8.242E+00	4.689E+01 1.067E+01 3.574E+01	2.646E+01 1.536E+02 1.112E+02 1.548E+01			
VKP034	12S13E05E	760203	VEGETATION SUGAR-BEET	LEAF	2.723E+04 1.269E+03 6.200E+00	4.473E+01 9.182E+00 8.026E+01	3.392E+01 2.584E+02 2.218E+01	8.904E+01 7.693E+00		

Table IV-7. (Concluded)

SAMPLE	COLLECTION SITE	DATE	***** SAMPLE *****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKP035	12S13E03H	760203	VEGETATION SUGAR-BEET LEAF	2.315E+04 9.373E+02	4.442E+01 6.022E+00 6.192E+00	9.249E+03 5.374E+01	2.111E+01 1.422E+02	9.893E+01 4.484E+00	
VKP036	12S13E02F	760204	VEGETATION SUGAR-BEET LEAF	2.968E+04 1.048E+03	3.758E+01 9.568E+00 6.177E+00	1.065E+04 5.075E+01	2.349E+01 2.575E+02	9.252E+01 5.613E+00	
VKP037	12S13E02H	760203	VEGETATION SUGAR-BEET LEAF	2.362E+04 1.756E+03	4.437E+01 9.051E+00 7.907E+00	9.042E+03 6.508E+01	2.601E+01 2.190E+02 2.681E+00	1.128E+02 8.733E+00	
VKP046	12S13E03Q	760203	VEGETATION SUGAR-BEET LEAF	4.386E+04 7.707E+02	3.819E+01 1.411E+01 9.019E+00	2.238E+00 9.896E+03 2.992E+01	2.542E+01 1.305E+02 1.568E+01	9.233E+01 6.275E+00	
VKP048	12S13E08H	760203	VEGETATION SUGAR-BEET LEAF	1.888E+04 2.854E+03	4.714E+01 1.089E+01 1.200E+01	1.940E+00 1.383E+04 3.662E+01	2.317E+01 1.572E+02 8.104E+00	8.387E+01 3.947E+01	
VKP049	12S13E09F	760203	VEGETATION LETTUCE LEAF	4.167E+04 2.391E+02	5.140E+01 9.671E+00 5.565E+00	4.353E+03 2.825E+01	2.492E+01 3.097E+01	8.228E+01	
VKP053	12S13E11F	760203	VEGETATION LETTUCE LEAF	5.474E+04 6.028E+02	4.089E+01 9.447E+00 7.098E+00	4.540E+03 8.749E+00	2.512E+01 4.401E+01	7.425E+01 6.799E+00	
VKP054	12S13E11H	760203	VEGETATION SUGAR-BEET LEAF	3.398E+04 1.307E+03	3.986E+01 7.380E+00 9.215E+00	1.499E+00 1.245E+04 5.333E+01	2.351E+01 1.877E+02 7.540E+00	1.129E+02 1.096E+01	
VKP056	11S13E33R	760203	VEGETATION GRASS LEAF	5.854E+04 4.366E+02	4.536E+01 1.541E+01 5.675E+00	6.300E+03 2.257E+01	2.831E+01 5.070E+01	8.305E+01	
VKP057	11S13E33L	751023	VEGETATION SUGAR-BEET LEAF	2.233E+04 1.473E+03	3.999E+01 7.686E+00 6.933E+00	6.995E+03 1.978E+01	3.336E+01 9.826E+01 1.146E+01	9.308E+01 6.370E+00	
VKP058	11S13E33L	751023	VEGETATION COTTON LEAF	1.287E+04 3.799E+02	2.957E+01 5.065E+00 7.794E+00	2.393E+04 2.835E+01	2.056E+01 3.614E+01	4.052E+02

ECOSYSTEM QUALITY

SITE-SPECIFIC BASELINES

EPA Team Leader: Alan B. Crockett
Environmental Monitoring and Support
Laboratory--Las Vegas
Environmental Protection Agency
P.O. Box 15027
Las Vegas, Nevada 89114

FTS: 595-2969 Ext. 394
Commercial: (702) 736-2969 Ext. 394

The EPA has made collections of baseline samples of soil and vegetation at sites in the Salton Sea, Brawley, Heber, and East Mesa KGRAs.

Locations where samples were collected are specified by a Grid Number, Site within the Grid, and subsite. Grid 1 is shown in Fig. IV-2, Grids 2 and 3 in Fig. IV-3, Grid 4 in Fig. IV-4, Grid 5 in Fig. IV-5, and Grid 6 in Fig. IV-6. Sampling in Grids 1, 2, and 3 consisted of collecting composite samples (9 subsamples collected on a 3 x 3 grid, 10 m apart) in duplicate. The location designation 1-01-1, for example, means Grid 1, location 1, duplicate sample number 1. Sampling in Grids 4, 5, and 6 consisted of collecting composite samples (16 subsamples as indicated in Figs. IV-4 to IV-6) in one to four quadrats per site. For these grids, the location designation 4-57-2, for example, means Grid 4, location 57, second quadrat.

The soil samples collected to date are listed in Table IV-8, and the vegetation samples are listed in Table IV-9. Some preliminary chemical analyses for these samples are available, but are not now included in the IVEP data base.

Fig. IV-2. Grid 1 of the EPA sample-collection network. This grid is in the East Mesa KGRA and covers an area which may be developed by Republic Geothermal, Inc.

Fig. IV-3. Grids 2 and 3 of the EPA sample-collection network. These grids are in the East Mesa KGRA. Grid 2 covers the present Bureau of Reclamation/ERDA testing area, and Grid 3 covers an area where Magma Electric Co. intends to construct a power plant.

Fig. IV-4. Grid 4 of the EPA sample-collection network. This grid is in the Salton Sea KGRA and covers the SDG&E/ERDA Geothermal Loop Experimental Facility.

IV-29

Fig. IV-5. Grid 5 of the EPA sample-collection network. This grid is in the Brawley KGRA and covers an area which is under active exploration and development by Union Oil Co.

Fig. IV-6. Grid 6 of the EPA sample-collection network. This grid is in the Heber KGRA and covers the area where SDG&E intends to build a power plant.

Table IV-8. List of site-specific baseline samples of soil collected by EPA. The list is ordered by Sample Number.

SAMPLE NUMBER	COLLECTION GRID-LOCAL	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
P110111	1-01-1	770201	SOIL	SURFACE
P110121	1-01-2	770201	SOIL	SURFACE
P110211	1-02-1	770201	SOIL	SURFACE
P110221	1-02-2	770201	SOIL	SURFACE
P110311	1-03-1	770201	SOIL	SURFACE
P110321	1-03-2	770201	SOIL	SURFACE
P110411	1-04-1	770201	SOIL	SURFACE
P110421	1-04-2	770201	SOIL	SURFACE
P110511	1-05-1	770201	SOIL	SURFACE
P110521	1-05-2	770201	SOIL	SURFACE
P110611	1-06-1	770201	SOIL	SURFACE
P110621	1-06-2	770201	SOIL	SURFACE
P110711	1-07-1	770201	SOIL	SURFACE
P110721	1-07-2	770201	SOIL	SURFACE
P110811	1-08-1	770201	SOIL	SURFACE
P110821	1-08-2	770201	SOIL	SURFACE
P110911	1-09-1	770201	SOIL	SURFACE
P110921	1-09-2	770201	SOIL	SURFACE
P111011	1-10-1	770201	SOIL	SURFACE
P111021	1-10-2	770201	SOIL	SURFACE
P111111	1-11-1	770201	SOIL	SURFACE
P111121	1-11-2	770201	SOIL	SURFACE
P111211	1-12-1	770201	SOIL	SURFACE
P111221	1-12-2	770201	SOIL	SURFACE
P111311	1-13-1	770201	SOIL	SURFACE
P111321	1-13-2	770201	SOIL	SURFACE
P111411	1-14-1	770201	SOIL	SURFACE
P111421	1-14-2	770201	SOIL	SURFACE
P111511	1-15-1	770201	SOIL	SURFACE
P111521	1-15-2	770201	SOIL	SURFACE
P111611	1-16-1	770201	SOIL	SURFACE
P111621	1-16-2	770201	SOIL	SURFACE
P210111	2-01-1	770202	SOIL	SURFACE
P210121	2-01-2	770202	SOIL	SURFACE
P210211	2-02-1	770202	SOIL	SURFACE
P210221	2-02-2	770202	SOIL	SURFACE
P210311	2-03-1	770202	SOIL	SURFACE
P210321	2-03-2	770202	SOIL	SURFACE
P210411	2-04-1	770202	SOIL	SURFACE
P210421	2-04-2	770202	SOIL	SURFACE
P210511	2-05-1	770202	SOIL	SURFACE
P210521	2-05-2	770202	SOIL	SURFACE
P210611	2-06-1	770202	SOIL	SURFACE
P210621	2-06-2	770202	SOIL	SURFACE
P210711	2-07-1	770202	SOIL	SURFACE
P210721	2-07-2	770202	SOIL	SURFACE
P210811	2-08-1	770202	SOIL	SURFACE
P210821	2-08-2	770202	SOIL	SURFACE
P210911	2-09-1	770202	SOIL	SURFACE
P210921	2-09-2	770202	SOIL	SURFACE

Table IV-8. (Continued)

P211011	2-10-1	770202	SOIL	SURFACE
P211021	2-10-2	770202	SOIL	SURFACE
P211111	2-11-1	770202	SOIL	SURFACE
P211121	2-11-2	770202	SOIL	SURFACE
P211211	2-12-1	770202	SOIL	SURFACE
P211221	2-12-2	770202	SOIL	SURFACE
P211311	2-13-1	770202	SOIL	SURFACE
P211321	2-13-2	770202	SOIL	SURFACE
P211411	2-14-1	770202	SOIL	SURFACE
P211421	2-14-2	770202	SOIL	SURFACE
P211511	2-15-1	770202	SOIL	SURFACE
P211521	2-15-2	770202	SOIL	SURFACE
P211611	2-16-1	770202	SOIL	SURFACE
P211621	2-16-2	770202	SOIL	SURFACE
P310111	3-01-1	770202	SOIL	SURFACE
P310121	3-01-2	770202	SOIL	SURFACE
P310211	3-02-1	770202	SOIL	SURFACE
P310221	3-02-2	770202	SOIL	SURFACE
P310311	3-03-1	770202	SOIL	SURFACE
P310321	3-03-2	770202	SOIL	SURFACE
P310411	3-04-1	770202	SOIL	SURFACE
P310421	3-04-2	770202	SOIL	SURFACE
P310511	3-05-1	770202	SOIL	SURFACE
P310521	3-05-2	770202	SOIL	SURFACE
P310611	3-06-1	770202	SOIL	SURFACE
P310621	3-06-2	770202	SOIL	SURFACE
P310711	3-07-1	770202	SOIL	SURFACE
P310721	3-07-2	770202	SOIL	SURFACE
P310811	3-08-1	770202	SOIL	SURFACE
P310821	3-08-2	770202	SOIL	SURFACE
P310911	3-09-1	770202	SOIL	SURFACE
P310921	3-09-2	770202	SOIL	SURFACE
P311011	3-10-1	770202	SOIL	SURFACE
P311021	3-10-2	770202	SOIL	SURFACE
P311111	3-11-1	770202	SOIL	SURFACE
P311121	3-11-2	770202	SOIL	SURFACE
P311211	3-12-1	770202	SOIL	SURFACE
P311221	3-12-2	770202	SOIL	SURFACE
P311311	3-13-1	770202	SOIL	SURFACE
P311321	3-13-2	770202	SOIL	SURFACE
P311411	3-14-1	770202	SOIL	SURFACE
P311421	3-14-2	770202	SOIL	SURFACE
P311511	3-15-1	770202	SOIL	SURFACE
P311521	3-15-2	770202	SOIL	SURFACE
P311611	3-16-1	770202	SOIL	SURFACE
P311621	3-16-2	770202	SOIL	SURFACE
P411311	4-13-1	760211	SOIL	SURFACE
P411321	4-13-2	760211	SOIL	SURFACE
P411331	4-13-3	760211	SOIL	SURFACE
P411341	4-13-4	760211	SOIL	SURFACE
P411411	4-14-1	760211	SOIL	SURFACE
P411421	4-14-2	760211	SOIL	SURFACE
P411431	4-14-3	760211	SOIL	SURFACE
P411441	4-14-4	760211	SOIL	SURFACE
P411511	4-15-1	760211	SOIL	SURFACE
P411521	4-15-2	760211	SOIL	SURFACE
P411531	4-15-3	760211	SOIL	SURFACE
P411541	4-15-4	760211	SOIL	SURFACE
P411611	4-16-1	760211	SOIL	SURFACE
P411621	4-16-2	760211	SOIL	SURFACE

Table IV-8. (Continued)

P411631	4-16-3	760211	SOIL	SURFACE
P411641	4-16-4	760211	SOIL	SURFACE
P412211	4-22-1	760211	SOIL	SURFACE
P412221	4-22-2	760211	SOIL	SURFACE
P412231	4-22-3	760211	SOIL	SURFACE
P412241	4-22-4	760211	SOIL	SURFACE
P412311	4-23-1	760211	SOIL	SURFACE
P412321	4-23-2	760211	SOIL	SURFACE
P412331	4-23-3	760211	SOIL	SURFACE
P412341	4-23-4	760211	SOIL	SURFACE
P412411	4-24-1	760211	SOIL	SURFACE
P412421	4-24-2	760211	SOIL	SURFACE
P412431	4-24-3	760211	SOIL	SURFACE
P412441	4-24-4	760211	SOIL	SURFACE
P412511	4-25-1	760211	SOIL	SURFACE
P412521	4-25-2	760211	SOIL	SURFACE
P412531	4-25-3	760211	SOIL	SURFACE
P412541	4-25-4	760211	SOIL	SURFACE
P412611	4-26-1	760211	SOIL	SURFACE
P412621	4-26-2	760211	SOIL	SURFACE
P412631	4-26-3	760211	SOIL	SURFACE
P412641	4-26-4	760211	SOIL	SURFACE
P412711	4-27-1	760211	SOIL	SURFACE
P412721	4-27-2	760211	SOIL	SURFACE
P412731	4-27-3	760211	SOIL	SURFACE
P412741	4-27-4	760211	SOIL	SURFACE
P413111	4-31-1	760211	SOIL	SURFACE
P413121	4-31-2	760211	SOIL	SURFACE
P413131	4-31-3	760211	SOIL	SURFACE
P413141	4-31-4	760211	SOIL	SURFACE
P413211	4-32-1	760211	SOIL	SURFACE
P413221	4-32-2	760211	SOIL	SURFACE
P413231	4-32-3	760211	SOIL	SURFACE
P413241	4-32-4	760211	SOIL	SURFACE
P413311	4-33-1	760211	SOIL	SURFACE
P413321	4-33-2	760211	SOIL	SURFACE
P413331	4-33-3	760211	SOIL	SURFACE
P413341	4-33-4	760211	SOIL	SURFACE
P413411	4-34-1	760211	SOIL	SURFACE
P413421	4-34-2	760211	SOIL	SURFACE
P413431	4-34-3	760211	SOIL	SURFACE
P413441	4-34-4	760211	SOIL	SURFACE
P413511	4-35-1	760211	SOIL	SURFACE
P413521	4-35-2	760211	SOIL	SURFACE
P413531	4-35-3	760211	SOIL	SURFACE
P413541	4-35-4	760211	SOIL	SURFACE
P413611	4-36-1	760211	SOIL	SURFACE
P413621	4-36-2	760211	SOIL	SURFACE
P413631	4-36-3	760211	SOIL	SURFACE
P413641	4-36-4	760211	SOIL	SURFACE
P413711	4-37-1	760211	SOIL	SURFACE
P413721	4-37-2	760211	SOIL	SURFACE
P413731	4-37-3	760211	SOIL	SURFACE
P413741	4-37-4	760211	SOIL	SURFACE
P413811	4-38-1	760211	SOIL	SURFACE
P413821	4-38-2	760211	SOIL	SURFACE
P413831	4-38-3	760211	SOIL	SURFACE
P413841	4-38-4	760211	SOIL	SURFACE
P414111	4-41-1	760211	SOIL	SURFACE
P414121	4-41-2	760211	SOIL	SURFACE

Table IV-8. (Continued)

P414131	4-41-3	760211	SOIL	SURFACE
P414141	4-41-4	760211	SOIL	SURFACE
P414211	4-42-1	760211	SOIL	SURFACE
P414221	4-42-2	760211	SOIL	SURFACE
P414231	4-42-3	760211	SOIL	SURFACE
P414241	4-42-4	760211	SOIL	SURFACE
P414311	4-43-1	760211	SOIL	SURFACE
P414321	4-43-2	760211	SOIL	SURFACE
P414331	4-43-3	760211	SOIL	SURFACE
P414341	4-43-4	760211	SOIL	SURFACE
P414411	4-44-1	760211	SOIL	SURFACE
P414421	4-44-2	760211	SOIL	SURFACE
P414431	4-44-3	760211	SOIL	SURFACE
P414441	4-44-4	760211	SOIL	SURFACE
P414511	4-45-1	760211	SOIL	SURFACE
P414521	4-45-2	760211	SOIL	SURFACE
P414531	4-45-3	760211	SOIL	SURFACE
P414541	4-45-4	760211	SOIL	SURFACE
P414611	4-46-1	760211	SOIL	SURFACE
P414621	4-46-2	760211	SOIL	SURFACE
P414631	4-46-3	760211	SOIL	SURFACE
P414641	4-46-4	760211	SOIL	SURFACE
P414711	4-47-1	760211	SOIL	SURFACE
P414721	4-47-2	760211	SOIL	SURFACE
P414731	4-47-3	760211	SOIL	SURFACE
P414741	4-47-4	760211	SOIL	SURFACE
P414811	4-48-1	760211	SOIL	SURFACE
P414821	4-48-2	760211	SOIL	SURFACE
P414831	4-48-3	760211	SOIL	SURFACE
P414841	4-48-4	760211	SOIL	SURFACE
P415111	4-51-1	760211	SOIL	SURFACE
P415121	4-51-2	760211	SOIL	SURFACE
P415131	4-51-3	760211	SOIL	SURFACE
P415141	4-51-4	760211	SOIL	SURFACE
P415211	4-52-1	760211	SOIL	SURFACE
P415221	4-52-2	760211	SOIL	SURFACE
P415231	4-52-3	760211	SOIL	SURFACE
P415241	4-52-4	760211	SOIL	SURFACE
P415311	4-53-1	760211	SOIL	SURFACE
P415321	4-53-2	760211	SOIL	SURFACE
P415331	4-53-3	760211	SOIL	SURFACE
P415341	4-53-4	760211	SOIL	SURFACE
P415411	4-54-1	760211	SOIL	SURFACE
P415421	4-54-2	760211	SOIL	SURFACE
P415431	4-54-3	760211	SOIL	SURFACE
P415441	4-54-4	760211	SOIL	SURFACE
P415511	4-55-1	760211	SOIL	SURFACE
P415521	4-55-2	760211	SOIL	SURFACE
P415531	4-55-3	760211	SOIL	SURFACE
P415541	4-55-4	760211	SOIL	SURFACE
P415611	4-56-1	760211	SOIL	SURFACE
P415621	4-56-2	760211	SOIL	SURFACE
P415631	4-56-3	760211	SOIL	SURFACE
P415641	4-56-4	760211	SOIL	SURFACE
P415711	4-57-1	760211	SOIL	SURFACE
P415721	4-57-2	760211	SOIL	SURFACE
P415731	4-57-3	760211	SOIL	SURFACE
P415741	4-57-4	760211	SOIL	SURFACE
P415811	4-58-1	760211	SOIL	SURFACE
P415821	4-58-2	760211	SOIL	SURFACE

Table IV-8. (Continued)

P415831	4-58-3	760211	SOIL	SURFACE
P415841	4-58-4	760211	SOIL	SURFACE
P416111	4-61-1	760211	SOIL	SURFACE
P416121	4-61-2	760211	SOIL	SURFACE
P416131	4-61-3	760211	SOIL	SURFACE
P416141	4-61-4	760211	SOIL	SURFACE
P416211	4-62-1	760211	SOIL	SURFACE
P416221	4-62-2	760211	SOIL	SURFACE
P416231	4-62-3	760211	SOIL	SURFACE
P416241	4-62-4	760211	SOIL	SURFACE
P416311	4-63-1	760211	SOIL	SURFACE
P416321	4-63-2	760211	SOIL	SURFACE
P416331	4-63-3	760211	SOIL	SURFACE
P416341	4-63-4	760211	SOIL	SURFACE
P416411	4-64-1	760211	SOIL	SURFACE
P416421	4-64-2	760211	SOIL	SURFACE
P416431	4-64-3	760211	SOIL	SURFACE
P416441	4-64-4	760211	SOIL	SURFACE
P416511	4-65-1	760211	SOIL	SURFACE
P416521	4-65-2	760211	SOIL	SURFACE
P416531	4-65-3	760211	SOIL	SURFACE
P416541	4-65-4	760211	SOIL	SURFACE
P416611	4-66-1	760211	SOIL	SURFACE
P416621	4-66-2	760211	SOIL	SURFACE
P416631	4-66-3	760211	SOIL	SURFACE
P416641	4-66-4	760211	SOIL	SURFACE
P416711	4-67-1	760211	SOIL	SURFACE
P416721	4-67-2	760211	SOIL	SURFACE
P416731	4-67-3	760211	SOIL	SURFACE
P416741	4-67-4	760211	SOIL	SURFACE
P416811	4-68-1	760211	SOIL	SURFACE
P416821	4-68-2	760211	SOIL	SURFACE
P416831	4-68-3	760211	SOIL	SURFACE
P416841	4-68-4	760211	SOIL	SURFACE
P417211	4-72-1	760211	SOIL	SURFACE
P417221	4-72-2	760211	SOIL	SURFACE
P417231	4-72-3	760211	SOIL	SURFACE
P417241	4-72-4	760211	SOIL	SURFACE
P417411	4-74-1	760211	SOIL	SURFACE
P417421	4-74-2	760211	SOIL	SURFACE
P417431	4-74-3	760211	SOIL	SURFACE
P417441	4-74-4	760211	SOIL	SURFACE
P417511	4-75-1	760211	SOIL	SURFACE
P417521	4-75-2	760211	SOIL	SURFACE
P417531	4-75-3	760211	SOIL	SURFACE
P417541	4-75-4	760211	SOIL	SURFACE
P417611	4-76-1	760211	SOIL	SURFACE
P417621	4-76-2	760211	SOIL	SURFACE
P417631	4-76-3	760211	SOIL	SURFACE
P417641	4-76-4	760211	SOIL	SURFACE
P417711	4-77-1	760211	SOIL	SURFACE
P417721	4-77-2	760211	SOIL	SURFACE
P417731	4-77-3	760211	SOIL	SURFACE
P417741	4-77-4	760211	SOIL	SURFACE
P418411	4-84-1	760211	SOIL	SURFACE
P418421	4-84-2	760211	SOIL	SURFACE
P418431	4-84-3	760211	SOIL	SURFACE
P418441	4-84-4	760211	SOIL	SURFACE
P418511	4-85-1	760211	SOIL	SURFACE
P418521	4-85-2	760211	SOIL	SURFACE

Table IV-8. (Continued)

P418531	4-85-3	760211	SOIL	SURFACE
P418541	4-85-4	760211	SOIL	SURFACE
P418611	4-86-1	760211	SOIL	SURFACE
P418621	4-86-2	760211	SOIL	SURFACE
P418631	4-86-3	760211	SOIL	SURFACE
P418641	4-86-4	760211	SOIL	SURFACE
P421311	4-13-1	761201	SOIL	SURFACE
P421341	4-13-4	761201	SOIL	SURFACE
P421411	4-14-1	761201	SOIL	SURFACE
P421441	4-14-4	761201	SOIL	SURFACE
P421511	4-15-1	761201	SOIL	SURFACE
P421541	4-15-4	761201	SOIL	SURFACE
P421611	4-16-1	761201	SOIL	SURFACE
P421641	4-16-4	761201	SOIL	SURFACE
P422211	4-22-1	761201	SOIL	SURFACE
P422241	4-22-4	761201	SOIL	SURFACE
P422311	4-23-1	761201	SOIL	SURFACE
P422341	4-23-4	761201	SOIL	SURFACE
P422411	4-24-1	761201	SOIL	SURFACE
P422441	4-24-4	761201	SOIL	SURFACE
P422511	4-25-1	761201	SOIL	SURFACE
P422541	4-25-4	761201	SOIL	SURFACE
P422611	4-26-1	761201	SOIL	SURFACE
P422641	4-26-4	761201	SOIL	SURFACE
P422711	4-27-1	761201	SOIL	SURFACE
P422741	4-27-4	761201	SOIL	SURFACE
P423111	4-31-1	761201	SOIL	SURFACE
P423141	4-31-4	761201	SOIL	SURFACE
P423211	4-32-1	761201	SOIL	SURFACE
P423241	4-32-4	761201	SOIL	SURFACE
P423311	4-33-1	761201	SOIL	SURFACE
P423341	4-33-4	761201	SOIL	SURFACE
P423411	4-34-1	761201	SOIL	SURFACE
P423441	4-34-4	761201	SOIL	SURFACE
P423511	4-35-1	761201	SOIL	SURFACE
P423541	4-35-4	761201	SOIL	SURFACE
P423611	4-36-1	761201	SOIL	SURFACE
P423641	4-36-4	761201	SOIL	SURFACE
P423711	4-37-1	761201	SOIL	SURFACE
P423741	4-37-4	761201	SOIL	SURFACE
P423811	4-38-1	761201	SOIL	SURFACE
P423841	4-38-4	761201	SOIL	SURFACE
P424111	4-41-1	761201	SOIL	SURFACE
P424141	4-41-4	761201	SOIL	SURFACE
P424211	4-42-1	761201	SOIL	SURFACE
P424241	4-42-4	761201	SOIL	SURFACE
P424311	4-43-1	761201	SOIL	SURFACE
P424341	4-43-4	761201	SOIL	SURFACE
P424411	4-44-1	761201	SOIL	SURFACE
P424441	4-44-4	761201	SOIL	SURFACE
P424511	4-45-1	761201	SOIL	SURFACE
P424541	4-45-4	761201	SOIL	SURFACE
P424611	4-46-1	761201	SOIL	SURFACE
P424641	4-46-4	761201	SOIL	SURFACE
P424711	4-47-1	761201	SOIL	SURFACE
P424741	4-47-4	761201	SOIL	SURFACE
P424811	4-48-1	761201	SOIL	SURFACE
P424841	4-48-4	761201	SOIL	SURFACE
P425111	4-51-1	761201	SOIL	SURFACE
P425141	4-51-4	761201	SOIL	SURFACE

Table IV-8. (Continued)

P425211	4-52-1	761201	SOIL	SURFACE
P425241	4-52-4	761201	SOIL	SURFACE
P425311	4-53-1	761201	SOIL	SURFACE
P425341	4-53-4	761201	SOIL	SURFACE
P425411	4-54-1	761201	SOIL	SURFACE
P425441	4-54-4	761201	SOIL	SURFACE
P425511	4-55-1	761201	SOIL	SURFACE
P425541	4-55-4	761201	SOIL	SURFACE
P425611	4-56-1	761201	SOIL	SURFACE
P425641	4-56-4	761201	SOIL	SURFACE
P425711	4-57-1	761201	SOIL	SURFACE
P425741	4-57-4	761201	SOIL	SURFACE
P425811	4-58-1	761201	SOIL	SURFACE
P425841	4-58-4	761201	SOIL	SURFACE
P426111	4-61-1	761201	SOIL	SURFACE
P426141	4-61-4	761201	SOIL	SURFACE
P426211	4-62-1	761201	SOIL	SURFACE
P426241	4-62-4	761201	SOIL	SURFACE
P426311	4-63-1	761201	SOIL	SURFACE
P426341	4-63-4	761201	SOIL	SURFACE
P426411	4-64-1	761201	SOIL	SURFACE
P426441	4-64-4	761201	SOIL	SURFACE
P426511	4-65-1	761201	SOIL	SURFACE
P426541	4-65-4	761201	SOIL	SURFACE
P426611	4-66-1	761201	SOIL	SURFACE
P426641	4-66-4	761201	SOIL	SURFACE
P426711	4-67-1	761201	SOIL	SURFACE
P426741	4-67-4	761201	SOIL	SURFACE
P426811	4-68-1	761201	SOIL	SURFACE
P426841	4-68-4	761201	SOIL	SURFACE
P427211	4-72-1	761201	SOIL	SURFACE
P427241	4-72-4	761201	SOIL	SURFACE
P427411	4-74-1	761201	SOIL	SURFACE
P427441	4-74-4	761201	SOIL	SURFACE
P427511	4-75-1	761201	SOIL	SURFACE
P427541	4-75-4	761201	SOIL	SURFACE
P427611	4-76-1	761201	SOIL	SURFACE
P427641	4-76-4	761201	SOIL	SURFACE
P427711	4-77-1	761201	SOIL	SURFACE
P427741	4-77-4	761201	SOIL	SURFACE
P428411	4-84-1	761201	SOIL	SURFACE
P428441	4-84-4	761201	SOIL	SURFACE
P428511	4-85-1	761201	SOIL	SURFACE
P428541	4-85-4	761201	SOIL	SURFACE
P428611	4-86-1	761201	SOIL	SURFACE
P428641	4-86-4	761201	SOIL	SURFACE
P510111	5-01-1	761207	SOIL	SURFACE
P510141	5-01-4	761207	SOIL	SURFACE
P510211	5-02-1	761207	SOIL	SURFACE
P510241	5-02-4	761207	SOIL	SURFACE
P510311	5-03-1	761207	SOIL	SURFACE
P510341	5-03-4	761207	SOIL	SURFACE
P510411	5-04-1	761207	SOIL	SURFACE
P510441	5-04-4	761207	SOIL	SURFACE
P510511	5-05-1	761207	SOIL	SURFACE
P510541	5-05-4	761207	SOIL	SURFACE
P510611	5-06-1	761207	SOIL	SURFACE
P510641	5-06-4	761207	SOIL	SURFACE
P510711	5-07-1	761207	SOIL	SURFACE
P510741	5-07-4	761207	SOIL	SURFACE

Table IV-8. (Continued)

P510811	5-08-1	761207	SOIL	SURFACE
P510841	5-08-4	761207	SOIL	SURFACE
P510911	5-09-1	761207	SOIL	SURFACE
P510941	5-09-4	761207	SOIL	SURFACE
P511011	5-10-1	761207	SOIL	SURFACE
P511041	5-10-4	761207	SOIL	SURFACE
P511121	5-11-2	761207	SOIL	SURFACE
P511141	5-11-4	761207	SOIL	SURFACE
P511211	5-12-1	761207	SOIL	SURFACE
P511241	5-12-4	761207	SOIL	SURFACE
P511311	5-13-1	761207	SOIL	SURFACE
P511341	5-13-4	761207	SOIL	SURFACE
P511411	5-14-1	761207	SOIL	SURFACE
P511441	5-14-4	761207	SOIL	SURFACE
P511511	5-15-1	761207	SOIL	SURFACE
P511541	5-15-4	761207	SOIL	SURFACE
P511621	5-16-2	761207	SOIL	SURFACE
P511641	5-16-4	761207	SOIL	SURFACE
P511711	5-17-1	761207	SOIL	SURFACE
P511741	5-17-4	761207	SOIL	SURFACE
P511811	5-18-1	761207	SOIL	SURFACE
P511841	5-18-4	761207	SOIL	SURFACE
P511911	5-19-1	761207	SOIL	SURFACE
P511941	5-19-4	761207	SOIL	SURFACE
P512011	5-20-1	761207	SOIL	SURFACE
P512041	5-20-4	761207	SOIL	SURFACE
P512111	5-21-1	761207	SOIL	SURFACE
P512141	5-21-4	761207	SOIL	SURFACE
P512211	5-22-1	761207	SOIL	SURFACE
P512241	5-22-4	761207	SOIL	SURFACE
P512311	5-23-1	761207	SOIL	SURFACE
P512341	5-23-4	761207	SOIL	SURFACE
P512411	5-24-1	761207	SOIL	SURFACE
P512441	5-24-4	761207	SOIL	SURFACE
P512511	5-25-1	761207	SOIL	SURFACE
P512541	5-25-4	761207	SOIL	SURFACE
P512611	5-26-1	761207	SOIL	SURFACE
P512631	5-26-3	761207	SOIL	SURFACE
P512711	5-27-1	761207	SOIL	SURFACE
P512741	5-27-4	761207	SOIL	SURFACE
P512811	5-28-1	761207	SOIL	SURFACE
P512841	5-28-4	761207	SOIL	SURFACE
P512911	5-29-1	761207	SOIL	SURFACE
P512941	5-29-4	761207	SOIL	SURFACE
P513011	5-30-1	761207	SOIL	SURFACE
P513041	5-30-4	761207	SOIL	SURFACE
P513111	5-31-1	761207	SOIL	SURFACE
P513141	5-31-4	761207	SOIL	SURFACE
P513211	5-32-1	761207	SOIL	SURFACE
P513241	5-32-4	761207	SOIL	SURFACE
P513311	5-33-1	761207	SOIL	SURFACE
P513341	5-33-4	761207	SOIL	SURFACE
P513411	5-34-1	761207	SOIL	SURFACE
P513441	5-34-4	761207	SOIL	SURFACE
P513511	5-35-1	761207	SOIL	SURFACE
P513531	5-35-3	761207	SOIL	SURFACE
P513611	5-36-1	761207	SOIL	SURFACE
P513641	5-36-4	761207	SOIL	SURFACE
P513721	5-37-2	761207	SOIL	SURFACE
P513731	5-37-2	761207	SOIL	SURFACE

Table IV-8. (Continued)

P513741	5-37-4	761207	SOIL	SURFACE
P513811	5-38-1	761207	SOIL	SURFACE
P513841	5-38-4	761207	SOIL	SURFACE
P513911	5-39-1	761207	SOIL	SURFACE
P513941	5-39-4	761207	SOIL	SURFACE
P514011	5-40-1	761207	SOIL	SURFACE
P514041	5-40-4	761207	SOIL	SURFACE
P514111	5-41-1	761207	SOIL	SURFACE
P514141	5-41-4	761207	SOIL	SURFACE
P514211	5-42-1	761207	SOIL	SURFACE
P514241	5-42-4	761207	SOIL	SURFACE
P514311	5-43-1	761207	SOIL	SURFACE
P514341	5-43-4	761207	SOIL	SURFACE
P514411	5-44-1	761207	SOIL	SURFACE
P514441	5-44-4	761207	SOIL	SURFACE
P514511	5-45-1	761207	SOIL	SURFACE
P514541	5-45-4	761207	SOIL	SURFACE
P514611	5-46-1	761207	SOIL	SURFACE
P514641	5-46-4	761207	SOIL	SURFACE
P514711	5-47-1	761207	SOIL	SURFACE
P514741	5-47-4	761207	SOIL	SURFACE
P514811	5-48-1	761207	SOIL	SURFACE
P514841	5-48-4	761207	SOIL	SURFACE
P514911	5-49-1	761207	SOIL	SURFACE
P514941	5-49-4	761207	SOIL	SURFACE
P515111	5-51-1	761207	SOIL	SURFACE
P515141	5-51-4	761207	SOIL	SURFACE
P515211	5-52-1	761207	SOIL	SURFACE
P515241	5-52-4	761207	SOIL	SURFACE
P515311	5-53-1	761207	SOIL	SURFACE
P515331	5-53-3	761207	SOIL	SURFACE
P515421	5-54-2	761207	SOIL	SURFACE
P515441	5-54-4	761207	SOIL	SURFACE
P515511	5-55-1	761207	SOIL	SURFACE
P515531	5-55-3	761207	SOIL	SURFACE
P515541	5-55-4	761207	SOIL	SURFACE
P515721	5-57-2	761207	SOIL	SURFACE
P515741	5-57-4	761207	SOIL	SURFACE
P610111	6-01-1	770118	SOIL	SURFACE
P610141	6-01-4	770118	SOIL	SURFACE
P610211	6-02-1	770118	SOIL	SURFACE
P610241	6-02-4	770118	SOIL	SURFACE
P610311	6-03-1	770118	SOIL	SURFACE
P610341	6-03-4	770118	SOIL	SURFACE
P610411	6-04-1	770118	SOIL	SURFACE
P610441	6-04-4	770118	SOIL	SURFACE
P610511	6-05-1	770118	SOIL	SURFACE
P610541	6-05-4	770118	SOIL	SURFACE
P610611	6-06-1	770118	SOIL	SURFACE
P610641	6-06-4	770118	SOIL	SURFACE
P610711	6-07-1	770118	SOIL	SURFACE
P610741	6-07-4	770118	SOIL	SURFACE
P610811	6-08-1	770118	SOIL	SURFACE
P610841	6-08-4	770118	SOIL	SURFACE
P610911	6-09-1	770118	SOIL	SURFACE
P610941	6-09-4	770118	SOIL	SURFACE
P611011	6-10-1	770118	SOIL	SURFACE
P611041	6-10-4	770118	SOIL	SURFACE
P611111	6-11-1	770118	SOIL	SURFACE
P611141	6-11-4	770118	SOIL	SURFACE

Table IV-8. (Continued)

P611211	6-12-1	770118	SOIL	SURFACE
P611241	6-12-4	770118	SOIL	SURFACE
P611311	6-13-1	770118	SOIL	SURFACE
P611341	6-13-4	770118	SOIL	SURFACE
P611411	6-14-1	770118	SOIL	SURFACE
P611441	6-14-4	770118	SOIL	SURFACE
P611511	6-15-1	770118	SOIL	SURFACE
P611541	6-15-4	770118	SOIL	SURFACE
P611611	6-16-1	770118	SOIL	SURFACE
P611641	6-16-4	770118	SOIL	SURFACE
P611711	6-17-1	770118	SOIL	SURFACE
P611741	6-17-4	770118	SOIL	SURFACE
P611811	6-18-1	770118	SOIL	SURFACE
P611841	6-18-4	770118	SOIL	SURFACE
P611911	6-19-1	770118	SOIL	SURFACE
P611941	6-19-4	770118	SOIL	SURFACE
P612011	6-20-1	770118	SOIL	SURFACE
P612041	6-20-4	770118	SOIL	SURFACE
P612111	6-21-1	770118	SOIL	SURFACE
P612141	6-21-4	770118	SOIL	SURFACE
P612211	6-22-1	770118	SOIL	SURFACE
P612241	6-22-4	770118	SOIL	SURFACE
P612311	6-23-1	770118	SOIL	SURFACE
P612341	6-23-4	770118	SOIL	SURFACE
P612411	6-24-1	770118	SOIL	SURFACE
P612441	6-24-4	770118	SOIL	SURFACE
P612511	6-25-1	770118	SOIL	SURFACE
P612541	6-25-4	770118	SOIL	SURFACE
P612611	6-26-1	770118	SOIL	SURFACE
P612641	6-26-4	770118	SOIL	SURFACE
P612711	6-27-1	770118	SOIL	SURFACE
P612741	6-27-4	770118	SOIL	SURFACE
P612811	6-28-1	770118	SOIL	SURFACE
P612841	6-28-4	770118	SOIL	SURFACE
P612911	6-29-1	770118	SOIL	SURFACE
P612941	6-29-4	770118	SOIL	SURFACE
P613011	6-30-1	770118	SOIL	SURFACE
P613041	6-30-4	770118	SOIL	SURFACE
P613111	6-31-1	770118	SOIL	SURFACE
P613141	6-31-4	770118	SOIL	SURFACE
P613211	6-32-1	770118	SOIL	SURFACE
P613241	6-32-4	770118	SOIL	SURFACE
P613311	6-33-1	770118	SOIL	SURFACE
P613341	6-33-4	770118	SOIL	SURFACE
P613411	6-34-1	770118	SOIL	SURFACE
P613441	6-34-4	770118	SOIL	SURFACE
P613511	6-35-1	770118	SOIL	SURFACE
P613541	6-35-4	770118	SOIL	SURFACE
P613611	6-36-1	770118	SOIL	SURFACE
P613641	6-36-4	770118	SOIL	SURFACE
P613711	6-37-1	770118	SOIL	SURFACE
P613741	6-37-4	770118	SOIL	SURFACE
P613811	6-38-1	770118	SOIL	SURFACE
P613841	6-38-4	770118	SOIL	SURFACE
P613911	6-39-1	770118	SOIL	SURFACE
P613941	6-39-4	770118	SOIL	SURFACE
P614011	6-40-1	770118	SOIL	SURFACE
P614041	6-40-4	770118	SOIL	SURFACE
P614111	6-41-1	770118	SOIL	SURFACE
P614141	6-41-4	770118	SOIL	SURFACE

Table IV-8. (Concluded)

P614211	6-42-1	770118	SOIL	SURFACE
P614241	6-42-4	770118	SOIL	SURFACE
P614311	6-43-1	770118	SOIL	SURFACE
P614341	6-43-4	770118	SOIL	SURFACE
P614411	6-44-1	770118	SOIL	SURFACE
P614441	6-44-4	770118	SOIL	SURFACE

Table IV-9. List of site-specific baseline samples of vegetation collected by EPA. The list is ordered by Sample Number.

SAMPLE NUMBER	COLLECTION GRID-LOCAL	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
P110117	1-01-1	770201	VEGETATION	CREOSOTE-BUSH
P110127	1-01-2	770201	VEGETATION	CREOSOTE-BUSH
P110217	1-02-1	770201	VEGETATION	CREOSOTE-BUSH
P110227	1-02-2	770201	VEGETATION	CREOSOTE-BUSH
P110317	1-03-1	770201	VEGETATION	CREOSOTE-BUSH
P110327	1-03-2	770201	VEGETATION	CREOSOTE-BUSH
P110417	1-04-1	770201	VEGETATION	CREOSOTE-BUSH
P110427	1-04-2	770201	VEGETATION	CREOSOTE-BUSH
P110517	1-05-1	770201	VEGETATION	CREOSOTE-BUSH
P110527	1-05-2	770201	VEGETATION	CREOSOTE-BUSH
P110617	1-06-1	770201	VEGETATION	CREOSOTE-BUSH
P110627	1-06-2	770201	VEGETATION	CREOSOTE-BUSH
P110717	1-07-1	770201	VEGETATION	CREOSOTE-BUSH
P110727	1-07-2	770201	VEGETATION	CREOSOTE-BUSH
P110817	1-08-1	770201	VEGETATION	CREOSOTE-BUSH
P110827	1-08-2	770201	VEGETATION	CREOSOTE-BUSH
P110917	1-09-1	770201	VEGETATION	CREOSOTE-BUSH
P110927	1-09-2	770201	VEGETATION	CREOSOTE-BUSH
P111017	1-10-1	770201	VEGETATION	CREOSOTE-BUSH
P111027	1-10-2	770201	VEGETATION	CREOSOTE-BUSH
P111117	1-11-1	770201	VEGETATION	CREOSOTE-BUSH
P111127	1-11-2	770201	VEGETATION	CREOSOTE-BUSH
P111217	1-12-1	770201	VEGETATION	CREOSOTE-BUSH
P111227	1-12-2	770201	VEGETATION	CREOSOTE-BUSH
P111317	1-13-1	770201	VEGETATION	CREOSOTE-BUSH
P111327	1-13-2	770201	VEGETATION	CREOSOTE-BUSH
P111417	1-14-1	770201	VEGETATION	CREOSOTE-BUSH
P111427	1-14-2	770201	VEGETATION	CREOSOTE-BUSH
P111517	1-15-1	770201	VEGETATION	CREOSOTE-BUSH
P111527	1-15-2	770201	VEGETATION	CREOSOTE-BUSH
P111617	1-16-1	770201	VEGETATION	CREOSOTE-BUSH
P111627	1-16-2	770201	VEGETATION	CREOSOTE-BUSH
P210117	2-01-1	770202	VEGETATION	CREOSOTE-BUSH
P210127	2-01-2	770202	VEGETATION	CREOSOTE-BUSH
P210217	2-02-1	770202	VEGETATION	CREOSOTE-BUSH
P210227	2-02-2	770202	VEGETATION	CREOSOTE-BUSH
P210317	2-03-1	770202	VEGETATION	CREOSOTE-BUSH
P210327	2-03-2	770202	VEGETATION	CREOSOTE-BUSH
P210417	2-04-1	770202	VEGETATION	CREOSOTE-BUSH
P210427	2-04-2	770202	VEGETATION	CREOSOTE-BUSH
P210517	2-05-1	770202	VEGETATION	CREOSOTE-BUSH
P210527	2-05-2	770202	VEGETATION	CREOSOTE-BUSH
P210617	2-06-1	770202	VEGETATION	CREOSOTE-BUSH
P210627	2-06-2	770202	VEGETATION	CREOSOTE-BUSH
P210717	2-07-1	770202	VEGETATION	CREOSOTE-BUSH
P210727	2-07-2	770202	VEGETATION	CREOSOTE-BUSH
P210817	2-08-1	770202	VEGETATION	CREOSOTE-BUSH
P210827	2-08-2	770202	VEGETATION	CREOSOTE-BUSH
P210917	2-09-1	770202	VEGETATION	CREOSOTE-BUSH
P210927	2-09-2	770202	VEGETATION	CREOSOTE-BUSH

Table IV-9. (Continued)

P211017	2-10-1	770202	VEGETATION	CREOSOTE-BUSH	
P211027	2-10-2	770202	VEGETATION	CREOSOTE-BUSH	
P211217	2-12-1	770202	VEGETATION	CREOSOTE-BUSH	
P211227	2-12-2	770202	VEGETATION	CREOSOTE-BUSH	
P211317	2-13-1	770202	VEGETATION	CREOSOTE-BUSH	
P211327	2-13-2	770202	VEGETATION	CREOSOTE-BUSH	
P211417	2-14-1	770202	VEGETATION	CREOSOTE-BUSH	
P211427	2-14-2	770202	VEGETATION	CREOSOTE-BUSH	
P211617	2-16-1	770202	VEGETATION	CREOSOTE-BUSH	
P211627	2-16-2	770202	VEGETATION	CREOSOTE-BUSH	
P310117	3-01-1	770202	VEGETATION	CREOSOTE-BUSH	
P310127	3-01-2	770202	VEGETATION	CREOSOTE-BUSH	
P310217	3-02-1	770202	VEGETATION	CREOSOTE-BUSH	
P310227	3-02-2	770202	VEGETATION	CREOSOTE-BUSH	
P310317	3-03-1	770202	VEGETATION	CREOSOTE-BUSH	
P310327	3-03-2	770202	VEGETATION	CREOSOTE-BUSH	
P310417	3-04-1	770202	VEGETATION	CREOSOTE-BUSH	
P310427	3-04-2	770202	VEGETATION	CREOSOTE-BUSH	
P310517	3-05-1	770202	VEGETATION	CREOSOTE-BUSH	
P310527	3-05-2	770202	VEGETATION	CREOSOTE-BUSH	
P310617	3-06-1	770202	VEGETATION	CREOSOTE-BUSH	
P310627	3-06-2	770202	VEGETATION	CREOSOTE-BUSH	
P310717	3-07-1	770202	VEGETATION	CREOSOTE-BUSH	
P310727	3-07-2	770202	VEGETATION	CREOSOTE-BUSH	
P310817	3-08-1	770202	VEGETATION	CREOSOTE-BUSH	
P310827	3-08-2	770202	VEGETATION	CREOSOTE-BUSH	
P310917	3-09-1	770202	VEGETATION	CREOSOTE-BUSH	
P310927	3-09-2	770202	VEGETATION	CREOSOTE-BUSH	
P311017	3-10-1	770202	VEGETATION	CREOSOTE-BUSH	
P311027	3-10-2	770202	VEGETATION	CREOSOTE-BUSH	
P311117	3-11-1	770202	VEGETATION	CREOSOTE-BUSH	
P311127	3-11-2	770202	VEGETATION	CREOSOTE-BUSH	
P311317	3-13-1	770202	VEGETATION	CREOSOTE-BUSH	
P311327	3-13-2	770202	VEGETATION	CREOSOTE-BUSH	
P311417	3-14-1	770202	VEGETATION	CREOSOTE-BUSH	
P311427	3-14-2	770202	VEGETATION	CREOSOTE-BUSH	
P311517	3-15-1	770202	VEGETATION	CREOSOTE-BUSH	
P311527	3-15-2	770202	VEGETATION	CREOSOTE-BUSH	
P311617	3-16-1	770202	VEGETATION	CREOSOTE-BUSH	
P311627	3-16-2	770202	VEGETATION	CREOSOTE-BUSH	
P412215	4-22-1	760211	VEGETATION	ALFALFA	
P412225	4-22-2	760211	VEGETATION	ALFALFA	
P412235	4-22-3	760211	VEGETATION	ALFALFA	
P412245	4-22-4	760211	VEGETATION	ALFALFA	
P412315	4-23-1	760211	VEGETATION	ALFALFA	
P412325	4-23-2	760211	VEGETATION	ALFALFA	
P412335	4-23-3	760211	VEGETATION	ALFALFA	
P412345	4-23-4	760211	VEGETATION	ALFALFA	
P412415	4-24-1	760211	VEGETATION	ALFALFA	
P412425	4-24-2	760211	VEGETATION	ALFALFA	
P412435	4-24-3	760211	VEGETATION	ALFALFA	
P412445	4-24-4	760211	VEGETATION	ALFALFA	
P412710	4-27-1	760211	VEGETATION	GRASS	
P412720	4-27-2	760211	VEGETATION	GRASS	
P412730	4-27-3	760211	VEGETATION	GRASS	
P412740	4-27-4	760211	VEGETATION	GRASS	
P413412	4-34-1	760211	VEGETATION	SUGAR-BEET	TOP
P413422	4-34-2	760211	VEGETATION	SUGAR-BEET	TOP
P413432	4-34-3	760211	VEGETATION	SUGAR-BEET	TOP
P413442	4-34-4	760211	VEGETATION	SUGAR-BEET	TOP

Table IV-9. (Continued)

P413712	4-37-1	760211	VEGETATION	SUGAR-BEET	TOP
P413722	4-37-2	760211	VEGETATION	SUGAR-BEET	TOP
P413732	4-37-3	760211	VEGETATION	SUGAR-BEET	TOP
P413742	4-37-4	760211	VEGETATION	SUGAR-BEET	TOP
P413812	4-38-1	760211	VEGETATION	SUGAR-BEET	TOP
P413822	4-38-2	760211	VEGETATION	SUGAR-BEET	TOP
P413832	4-38-3	760211	VEGETATION	SUGAR-BEET	TOP
P413842	4-38-4	760211	VEGETATION	SUGAR-BEET	TOP
P414310	4-43-1	760211	VEGETATION	GRASS	
P414320	4-43-2	760211	VEGETATION	GRASS	
P414330	4-43-3	760211	VEGETATION	GRASS	
P414340	4-43-4	760211	VEGETATION	GRASS	
P414412	4-44-1	760211	VEGETATION	SUGAR-BEET	TOP
P414422	4-44-2	760211	VEGETATION	SUGAR-BEET	TOP
P414515	4-45-1	760211	VEGETATION	ALFALFA	
P414525	4-45-2	760211	VEGETATION	ALFALFA	
P414535	4-45-3	760211	VEGETATION	ALFALFA	
P414545	4-45-4	760211	VEGETATION	ALFALFA	
P414615	4-46-1	760211	VEGETATION	ALFALFA	
P414635	4-46-3	760211	VEGETATION	ALFALFA	
P414712	4-47-1	760211	VEGETATION	SUGAR-BEET	TOP
P414722	4-47-2	760211	VEGETATION	SUGAR-BEET	TOP
P414732	4-47-3	760211	VEGETATION	SUGAR-BEET	TOP
P414742	4-47-4	760211	VEGETATION	SUGAR-BEET	TOP
P414812	4-48-1	760211	VEGETATION	SUGAR-BEET	TOP
P414822	4-48-2	760211	VEGETATION	SUGAR-BEET	TOP
P414832	4-48-3	760211	VEGETATION	SUGAR-BEET	TOP
P414842	4-48-4	760211	VEGETATION	SUGAR-BEET	TOP
P415712	4-57-1	760211	VEGETATION	SUGAR-BEET	TOP
P415722	4-57-2	760211	VEGETATION	SUGAR-BEET	TOP
P415732	4-57-3	760211	VEGETATION	SUGAR-BEET	TOP
P415742	4-57-4	760211	VEGETATION	SUGAR-BEET	TOP
P415812	4-58-1	760211	VEGETATION	SUGAR-BEET	TOP
P415832	4-58-3	760211	VEGETATION	SUGAR-BEET	TOP
P415842	4-58-4	760211	VEGETATION	SUGAR-BEET	TOP
P416514	4-65-1	760211	VEGETATION	LETTUCE	
P416524	4-65-2	760211	VEGETATION	LETTUCE	
P416534	4-65-3	760211	VEGETATION	LETTUCE	
P416544	4-65-4	760211	VEGETATION	LETTUCE	
P416614	4-66-1	760211	VEGETATION	LETTUCE	
P416624	4-66-2	760211	VEGETATION	LETTUCE	
P416634	4-66-3	760211	VEGETATION	LETTUCE	
P416644	4-66-4	760211	VEGETATION	LETTUCE	
P416712	4-67-1	760211	VEGETATION	SUGAR-BEET	TOP
P416722	4-67-2	760211	VEGETATION	SUGAR-BEET	TOP
P416732	4-67-3	760211	VEGETATION	SUGAR-BEET	TOP
P416742	4-67-4	760211	VEGETATION	SUGAR-BEET	TOP
P416812	4-68-1	760211	VEGETATION	SUGAR-BEET	TOP
P416822	4-68-2	760211	VEGETATION	SUGAR-BEET	TOP
P416832	4-68-3	760211	VEGETATION	SUGAR-BEET	TOP
P416842	4-68-4	760211	VEGETATION	SUGAR-BEET	TOP
P417712	4-77-1	760211	VEGETATION	SUGAR-BEET	TOP
P417722	4-77-2	760211	VEGETATION	SUGAR-BEET	TOP
P417732	4-77-3	760211	VEGETATION	SUGAR-BEET	TOP
P417742	4-77-4	760211	VEGETATION	SUGAR-BEET	TOP
P421516	4-15-1	761201	VEGETATION	COTTON	BALL
F421546	4-15-4	761201	VEGETATION	COTTON	BALL
P421616	4-16-1	761201	VEGETATION	COTTON	BALL
P421646	4-16-4	761201	VEGETATION	COTTON	BALL
P422215	4-22-1	761201	VEGETATION	ALFALFA	

Table IV-9. (Continued)

P422245	4-22-4	761201	VEGETATION	ALFALFA	
P422315	4-23-1	761201	VEGETATION	ALFALFA	
P422345	4-23-4	761201	VEGETATION	ALFALFA	
P422415	4-24-1	761201	VEGETATION	ALFALFA	
P422445	4-24-4	761201	VEGETATION	ALFALFA	
P422516	4-25-1	761201	VEGETATION	COTTON	BALL
P422546	4-25-4	761201	VEGETATION	COTTON	BALL
P422616	4-26-1	761201	VEGETATION	COTTON	BALL
P422646	4-26-4	761201	VEGETATION	COTTON	BALL
P422716	4-27-1	761201	VEGETATION	COTTON	BALL
P422746	4-27-4	761201	VEGETATION	COTTON	BALL
P423116	4-31-1	761201	VEGETATION	COTTON	BALL
P423146	4-31-4	761201	VEGETATION	COTTON	BALL
P423216	4-32-1	761201	VEGETATION	COTTON	BALL
P423246	4-32-4	761201	VEGETATION	COTTON	BALL
P423316	4-33-1	761201	VEGETATION	COTTON	BALL
P423346	4-33-4	761201	VEGETATION	COTTON	BALL
P423413	4-34-1	761201	VEGETATION	SUGAR-BEET	ROOT
P423443	4-34-4	761201	VEGETATION	SUGAR-BEET	ROOT
P423516	4-35-1	761201	VEGETATION	COTTON	BALL
P423546	4-35-4	761201	VEGETATION	COTTON	BALL
P423616	4-36-1	761201	VEGETATION	COTTON	BALL
P423646	4-36-4	761201	VEGETATION	COTTON	BALL
P423712	4-37-1	761201	VEGETATION	SUGAR-BEET	TOP
P423742	4-37-4	761201	VEGETATION	SUGAR-BEET	TOP
P424116	4-41-1	761201	VEGETATION	COTTON	BALL
P424146	4-41-4	761201	VEGETATION	COTTON	BALL
P424216	4-42-1	761201	VEGETATION	COTTON	BALL
P424246	4-42-4	761201	VEGETATION	COTTON	BALL
P424412	4-44-1	761201	VEGETATION	SUGAR-BEET	TOP
P424423	4-44-2	761201	VEGETATION	SUGAR-BEET	ROOT
P424516	4-45-1	761201	VEGETATION	COTTON	BALL
P424546	4-45-4	761201	VEGETATION	COTTON	BALL
P424616	4-46-1	761201	VEGETATION	COTTON	BALL
P424646	4-46-4	761201	VEGETATION	COTTON	BALL
P424712	4-47-1	761201	VEGETATION	SUGAR-BEET	TOP
P424742	4-47-4	761201	VEGETATION	SUGAR-BEET	TOP
P424812	4-48-1	761201	VEGETATION	SUGAR-BEET	TOP
P424842	4-48-4	761201	VEGETATION	SUGAR-BEET	TOP
P425116	4-51-1	761201	VEGETATION	COTTON	BALL
P425146	4-51-4	761201	VEGETATION	COTTON	BALL
P425216	4-52-1	761201	VEGETATION	COTTON	BALL
P425246	4-52-4	761201	VEGETATION	COTTON	BALL
P425316	4-53-1	761201	VEGETATION	COTTON	BALL
P425346	4-53-4	761201	VEGETATION	COTTON	BALL
P425412	4-54-1	761201	VEGETATION	SUGAR-BEET	TOP
P425442	4-54-4	761201	VEGETATION	SUGAR-BEET	TOP
P425514	4-55-1	761201	VEGETATION	LETTUCE	
P425544	4-55-4	761201	VEGETATION	LETTUCE	
P425614	4-56-1	761201	VEGETATION	LETTUCE	
P425644	4-56-4	761201	VEGETATION	LETTUCE	
P425712	4-57-1	761201	VEGETATION	SUGAR-BEET	TOP
P425742	4-57-4	761201	VEGETATION	SUGAR-BEET	TOP
P425812	4-58-1	761201	VEGETATION	SUGAR-BEET	TOP
P425842	4-58-4	761201	VEGETATION	SUGAR-BEET	TOP
P426116	4-61-1	761201	VEGETATION	COTTON	BALL
P426146	4-61-4	761201	VEGETATION	COTTON	BALL
P426216	4-62-1	761201	VEGETATION	COTTON	BALL
P426246	4-62-4	761201	VEGETATION	COTTON	BALL
P426316	4-63-1	761201	VEGETATION	COTTON	BALL

Table IV-9. (Continued)

P426346	4-63-4	761201	VEGETATION	COTTON	BALL
P426412	4-64-1	761201	VEGETATION	SUGAR-BEET	TOP
P426442	4-64-4	761201	VEGETATION	SUGAR-BEET	TOP
P426516	4-65-1	761201	VEGETATION	COTTON	BALL
P426546	4-65-4	761201	VEGETATION	COTTON	BALL
P426616	4-66-1	761201	VEGETATION	COTTON	BALL
P426646	4-66-4	761201	VEGETATION	COTTON	BALL
P426712	4-67-1	761201	VEGETATION	SUGAR-BEET	TOP
P426742	4-67-4	761201	VEGETATION	SUGAR-BEET	TOP
P426812	4-68-1	761201	VEGETATION	SUGAR-BEET	TOP
P426842	4-68-4	761201	VEGETATION	SUGAR-BEET	TOP
P427216	4-72-1	761201	VEGETATION	COTTON	BALL
P427246	4-72-4	761201	VEGETATION	COTTON	BALL
P427416	4-74-1	761201	VEGETATION	COTTON	BALL
P427446	4-74-4	761201	VEGETATION	COTTON	BALL
P427516	4-75-1	761201	VEGETATION	COTTON	BALL
P427546	4-75-4	761201	VEGETATION	COTTON	BALL
P427616	4-76-1	761201	VEGETATION	COTTON	BALL
P427646	4-76-4	761201	VEGETATION	COTTON	BALL
P427713	4-77-1	761201	VEGETATION	SUGAR-BEET	ROOT
P427743	4-77-4	761201	VEGETATION	SUGAR-BEET	ROOT
P428416	4-84-1	761201	VEGETATION	COTTON	BALL
P428446	4-84-4	761201	VEGETATION	COTTON	BALL
P428514	4-85-1	761201	VEGETATION	LETTUCE	
P428544	4-85-4	761201	VEGETATION	LETTUCE	
P428614	4-86-1	761201	VEGETATION	LETTUCE	
P428644	4-86-4	761201	VEGETATION	LETTUCE	
P510216	5-02-1	761207	VEGETATION	COTTON	BALL
P510246	5-02-4	761207	VEGETATION	COTTON	BALL
P510915	5-09-1	761207	VEGETATION	ALFALFA	
P510945	5-09-4	761207	VEGETATION	ALFALFA	
P511015	5-10-1	761207	VEGETATION	ALFALFA	
P511045	5-10-4	761207	VEGETATION	ALFALFA	
P511316	5-13-1	761207	VEGETATION	COTTON	BALL
P511336	5-13-3	761207	VEGETATION	COTTON	BALL
P511712	5-17-1	761207	VEGETATION	SUGAR-BEET	TOP
P511742	5-17-4	761207	VEGETATION	SUGAR-BEET	TOP
P511812	5-18-1	761207	VEGETATION	SUGAR-BEET	TOP
P511842	5-18-4	761207	VEGETATION	SUGAR-BEET	TOP
P512416	5-24-1	761207	VEGETATION	COTTON	BALL
P512446	5-24-4	761207	VEGETATION	COTTON	BALL
P512816	5-28-1	761207	VEGETATION	COTTON	BALL
P512846	5-28-4	761207	VEGETATION	COTTON	BALL
P513812	5-38-1	761207	VEGETATION	SUGAR-BEET	TOP
P513842	5-38-4	761207	VEGETATION	SUGAR-BEET	TOP
P514315	5-43-1	761207	VEGETATION	ALFALFA	
P514335	5-43-3	761207	VEGETATION	ALFALFA	
P514915	5-49-1	761207	VEGETATION	ALFALFA	
P514935	5-49-3	761207	VEGETATION	ALFALFA	
P515115	5-51-1	761207	VEGETATION	ALFALFA	
P515145	5-51-4	761207	VEGETATION	ALFALFA	
P610114	6-01-1	770118	VEGETATION	LETTUCE	
P610144	6-01-4	770118	VEGETATION	LETTUCE	
P610312	6-03-1	770118	VEGETATION	SUGAR-BEET	TOP
P610342	6-03-4	770118	VEGETATION	SUGAR-BEET	TOP
P610615	6-06-1	770118	VEGETATION	ALFALFA	
P610645	6-06-4	770118	VEGETATION	ALFALFA	
P610715	6-07-1	770118	VEGETATION	ALFALFA	
P610745	6-07-4	770118	VEGETATION	ALFALFA	
P610815	6-08-1	770118	VEGETATION	ALFALFA	

Table IV-9. (Concluded)

P610845	6-08-4	770118	VEGETATION	ALFALFA	
P610915	6-09-1	770118	VEGETATION	ALFALFA	
P610945	6-09-4	770118	VEGETATION	ALFALFA	
P611314	6-13-1	770118	VEGETATION	LETTUCE	
P611344	6-13-4	770118	VEGETATION	LETTUCE	
P611412	6-14-1	770118	VEGETATION	SUGAR-BEET	TOP
P611442	6-14-4	770118	VEGETATION	SUGAR-BEET	TOP
P611814	6-18-1	770118	VEGETATION	LETTUCE	
P611844	6-18-4	770118	VEGETATION	LETTUCE	
P611915	6-19-1	770118	VEGETATION	ALFALFA	
P611945	6-19-4	770118	VEGETATION	ALFALFA	
P612014	6-20-1	770118	VEGETATION	LETTUCE	
P612044	6-20-4	770118	VEGETATION	LETTUCE	
P612115	6-21-1	770118	VEGETATION	ALFALFA	
P612145	6-21-4	770118	VEGETATION	ALFALFA	
P612315	6-23-1	770118	VEGETATION	ALFALFA	
P612345	6-23-4	770118	VEGETATION	ALFALFA	
P612415	6-24-1	770118	VEGETATION	ALFALFA	
P612445	6-24-4	770118	VEGETATION	ALFALFA	
P612515	6-25-1	770118	VEGETATION	ALFALFA	
P612545	6-25-4	770118	VEGETATION	ALFALFA	
P612610	6-26-1	770118	VEGETATION	ONION	
P612640	6-26-4	770118	VEGETATION	ONION	
P612815	6-28-1	770118	VEGETATION	ALFALFA	
P612845	6-28-4	770118	VEGETATION	ALFALFA	
P613015	6-30-1	770118	VEGETATION	ALFALFA	
P613045	6-30-4	770118	VEGETATION	ALFALFA	
P613115	6-31-1	770118	VEGETATION	ALFALFA	
P613145	6-31-4	770118	VEGETATION	ALFALFA	
P613210	6-32-1	770118	VEGETATION	ONION	
P613240	6-32-4	770118	VEGETATION	ONION	
P613312	6-33-1	770118	VEGETATION	SUGAR-BEET	TOP
P613342	6-33-4	770118	VEGETATION	SUGAR-BEET	TOP
P613415	6-34-1	770118	VEGETATION	ALFALFA	
P613445	6-34-4	770118	VEGETATION	ALFALFA	
P613514	6-35-1	770118	VEGETATION	LETTUCE	
P613544	6-35-4	770118	VEGETATION	LETTUCE	
P613615	6-36-1	770118	VEGETATION	ALFALFA	
P613645	6-36-4	770118	VEGETATION	ALFALFA	
P613710	6-37-1	770118	VEGETATION	ONION	
P613740	6-37-4	770118	VEGETATION	ONION	
P613812	6-38-1	770118	VEGETATION	SUGAR-BEET	TOP
P613842	6-38-4	770118	VEGETATION	SUGAR-BEET	TOP
P613914	6-39-1	770118	VEGETATION	LETTUCE	
P613944	6-39-4	770118	VEGETATION	LETTUCE	
P614015	6-40-1	770118	VEGETATION	ALFALFA	
P614045	6-40-4	770118	VEGETATION	ALFALFA	
P614114	6-41-1	770118	VEGETATION	LETTUCE	
P614144	6-41-4	770118	VEGETATION	LETTUCE	
P614234	6-42-3	770118	VEGETATION	LETTUCE	
P614244	6-42-4	770118	VEGETATION	LETTUCE	
P614314	6-43-1	770118	VEGETATION	LETTUCE	
P614324	6-43-2	770118	VEGETATION	LETTUCE

ECOSYSTEM QUALITY

SHORELINE HABITATS

LLL Team Leader: John J. Koranda
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-4065
Commercial: (415) 447-1100 Ext. 4065

Samples of birds have been collected and are listed in

Table IV-10. This Table is ordered by Site, and subordered by Date and Sample Number. The Site Designators are IV = Imperial Valley, SNWR = Sacramento National Wildlife Refuge (control area), and WNR = Wister Unit of the Imperial Wildlife Management Area. Presently available results of chemical analyses of these samples are given in Table IV-11. This Table is ordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VKL155B	IV	760203	BIRD	SPARROWHAWK BRAIN
VKL155H	IV	760203	BIRD	SPARROWHAWK HEART
VKL155K	IV	760203	BIRD	SPARROWHAWK KIDNEY
VKL155L	IV	760203	BIRD	SPARROWHAWK LIVER
VKL155M	IV	760203	BIRD	SPARROWHAWK MUSCLE
VKL155U	IV	760203	BIRD	SPARROWHAWK LUNG
VKW148B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW148H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW148K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW148L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW148M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW148U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW149B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW149H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW149K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW149L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW149M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW149U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW150B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW150H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW150K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW150L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW150M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW150U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW151B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW151H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW151K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW151L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW151M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW151U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW152B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW152H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW152K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW152L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW152M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW152U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW153B	IV	760209	BIRD	GULL RINGBILLED BRAIN
VKW153H	IV	760209	BIRD	GULL RINGBILLED HEART
VKW153K	IV	760209	BIRD	GULL RINGBILLED KIDNEY
VKW153L	IV	760209	BIRD	GULL RINGBILLED LIVER
VKW153M	IV	760209	BIRD	GULL RINGBILLED MUSCLE
VKW153U	IV	760209	BIRD	GULL RINGBILLED LUNG
VKW167K	IV	760209	BIRD	EGRET CATTLE KIDNEY
VKW167L	IV	760209	BIRD	EGRET CATTLE LIVER
VKW168K	IV	760209	BIRD	EGRET CATTLE KIDNEY
VKW168L	IV	760209	BIRD	EGRET CATTLE LIVER
VKW169K	IV	760209	BIRD	EGRET CATTLE KIDNEY
VKW169L	IV	760209	BIRD	EGRET CATTLE LIVER
VKW170K	IV	760209	BIRD	EGRET CATTLE KIDNEY
VKW170L	IV	760209	BIRD	EGRET CATTLE LIVER

Table IV-10. (Continued)

VKW171K	IV	760209	BIRD	EGRET	CATTLE	KIDNEY
VKW171L	IV	760209	BIRD	EGRET	CATTLE	LIVER
VKW172K	IV	760209	BIRD	EGRET	CATTLE	KIDNEY
VKW172L	IV	760209	BIRD	EGRET	CATTLE	LIVER
VKL154B	IV	760213	BIRD		SPARROWHAWK	BRAIN
VKL154H	IV	760213	BIRD		SPARROWHAWK	HEART
VKL154K	IV	760213	BIRD		SPARROWHAWK	KIDNEY
VKL154L	IV	760213	BIRD		SPARROWHAWK	LIVER
VKL154M	IV	760213	BIRD		SPARROWHAWK	MUSCLE
VKL154U	IV	760213	BIRD		SPARROWHAWK	LUNG
VKL156B	IV	760213	BIRD		SPARROWHAWK	BRAIN
VKL156H	IV	760213	BIRD		SPARROWHAWK	HEART
VKL156K	IV	760213	BIRD		SPARROWHAWK	KIDNEY
VKL156L	IV	760213	BIRD		SPARROWHAWK	LIVER
VKL156M	IV	760213	BIRD		SPARROWHAWK	MUSCLE
VKL156U	IV	760213	BIRD		SPARROWHAWK	LUNG
VKL157B	IV	760213	BIRD		SPARROWHAWK	BRAIN
VKL157H	IV	760213	BIRD		SPARROWHAWK	HEART
VKL157K	IV	760213	BIRD		SPARROWHAWK	KIDNEY
VKL157L	IV	760213	BIRD		SPARROWHAWK	LIVER
VKL157M	IV	760213	BIRD		SPARROWHAWK	MUSCLE
VKL157U	IV	760213	BIRD		SPARROWHAWK	LUNG
VKL158B	IV	760213	BIRD		SPARROWHAWK	BRAIN
VKL158H	IV	760213	BIRD		SPARROWHAWK	HEART
VKL158K	IV	760213	BIRD		SPARROWHAWK	KIDNEY
VKL158L	IV	760213	BIRD		SPARROWHAWK	LIVER
VKL158M	IV	760213	BIRD		SPARROWHAWK	MUSCLE
VKL158U	IV	760213	BIRD		SPARROWHAWK	LUNG
VKL159B	IV	760213	BIRD		SPARROWHAWK	BRAIN
VKL159H	IV	760213	BIRD		SPARROWHAWK	HEART
VKL159K	IV	760213	BIRD		SPARROWHAWK	KIDNEY
VKL159L	IV	760213	BIRD		SPARROWHAWK	LIVER
VKL159M	IV	760213	BIRD		SPARROWHAWK	MUSCLE
VKL159U	IV	760213	BIRD		SPARROWHAWK	LUNG
VKL160B	IV	760214	BIRD	ROADRUNNER		BRAIN
VKL160H	IV	760214	BIRD	ROADRUNNER		HEART
VKL160K	IV	760214	BIRD	ROADRUNNER		KIDNEY
VKL160L	IV	760214	BIRD	ROADRUNNER		LIVER
VKL160M	IV	760214	BIRD	ROADRUNNER		MUSCLE
VKL160U	IV	760214	BIRD	ROADRUNNER		LUNG
VKL161B	IV	760214	BIRD	ROADRUNNER		BRAIN
VKL161H	IV	760214	BIRD	ROADRUNNER		HEART
VKL161K	IV	760214	BIRD	ROADRUNNER		KIDNEY
VKL161L	IV	760214	BIRD	ROADRUNNER		LIVER
VKL161M	IV	760214	BIRD	ROADRUNNER		MUSCLE
VKL161U	IV	760214	BIRD	ROADRUNNER		LUNG
VKL162B	IV	760214	BIRD	ROADRUNNER		BRAIN
VKL162H	IV	760214	BIRD	ROADRUNNER		HEART
VKL162K	IV	760214	BIRD	ROADRUNNER		KIDNEY
VKL162L	IV	760214	BIRD	ROADRUNNER		LIVER
VKL162M	IV	760214	BIRD	ROADRUNNER		MUSCLE
VKL162U	IV	760214	BIRD	ROADRUNNER		LUNG
VKG140B	IV	760215	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG140H	IV	760215	BIRD	GOOSE	CANADAGOOSE	HEART
VKG140K	IV	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG140L	IV	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG140M	IV	760215	BIRD	GOOSE	CANADAGOOSE	MUSCLE
VKG140U	IV	760215	BIRD	GOOSE	CANADAGOOSE	LUNG
VKG144B	IV	760215	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG144H	IV	760215	BIRD	GOOSE	CANADAGOOSE	HEART

Table IV-10. (Continued)

VKG144K	IV	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG144L	IV	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG144M	IV	760215	BIRD	GOOSE	CANADAGOOSE	MUSCLE
VKG144U	IV	760215	BIRD	GOOSE	CANADAGOOSE	LUNG
VKG145B	IV	760215	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG145H	IV	760215	BIRD	GOOSE	CANADAGOOSE	HEART
VKG145K	IV	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG145L	IV	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG145M	IV	760215	BIRD	GOOSE	CANADAGOOSE	MUSCLE
VKG145U	IV	760215	BIRD	GOOSE	CANADAGOOSE	LUNG
VKG146B	IV	760215	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG146H	IV	760215	BIRD	GOOSE	CANADAGOOSE	HEART
VKG146K	IV	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG146L	IV	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG146M	IV	760215	BIRD	GOOSE	CANADAGOOSE	MUSCLE
VKG146U	IV	760215	BIRD	GOOSE	CANADAGOOSE	LUNG
VKW147B	IV	760215	BIRD	HERON	GREATBLUE	BRAIN
VKW147H	IV	760215	BIRD	HERON	GREATBLUE	HEART
VKW147K	IV	760215	BIRD	HERON	GREATBLUE	KIDNEY
VKW147L	IV	760215	BIRD	HERON	GREATBLUE	LIVER
VKW147M	IV	760215	BIRD	HERON	GREATBLUE	MUSCLE
VKW147U	IV	760215	BIRD	HERON	GREATBLUE	LUNG
VKW175K	IV	760215	BIRD	PELICAN		KIDNEY
VKW175L	IV	760215	BIRD	PELICAN		LIVER
VKL141B	IV	760216	BIRD	PHEASANT		BRAIN
VKL141H	IV	760216	BIRD	PHEASANT		HEART
VKL141K	IV	760216	BIRD	PHEASANT		KIDNEY
VKL141L	IV	760216	BIRD	PHEASANT		LIVER
VKL141M	IV	760216	BIRD	PHEASANT		MUSCLE
VKL141U	IV	760216	BIRD	PHEASANT		LUNG
VKL142B	IV	760216	BIRD	PHEASANT		BRAIN
VKL142H	IV	760216	BIRD	PHEASANT		HEART
VKL142K	IV	760216	BIRD	PHEASANT		KIDNEY
VKL142L	IV	760216	BIRD	PHEASANT		LIVER
VKL142M	IV	760216	BIRD	PHEASANT		MUSCLE
VKL142U	IV	760216	BIRD	PHEASANT		LUNG
VKL143B	IV	760216	BIRD	PHEASANT		BRAIN
VKL143H	IV	760216	BIRD	PHEASANT		HEART
VKL143K	IV	760216	BIRD	PHEASANT		KIDNEY
VKL143L	IV	760216	BIRD	PHEASANT		LIVER
VKL143M	IV	760216	BIRD	PHEASANT		MUSCLE
VKL143U	IV	760216	BIRD	PHEASANT		LUNG
VKL163B	IV	760301	BIRD	ROADRUNNER		BRAIN
VKL163H	IV	760301	BIRD	ROADRUNNER		HEART
VKL163K	IV	760301	BIRD	ROADRUNNER		KIDNEY
VKL163L	IV	760301	BIRD	ROADRUNNER		LIVER
VKL163M	IV	760301	BIRD	ROADRUNNER		MUSCLE
VKL163U	IV	760301	BIRD	ROADRUNNER		LUNG
VKL164B	IV	760301	BIRD	ROADRUNNER		BRAIN
VKL164H	IV	760301	BIRD	ROADRUNNER		HEART
VKL164K	IV	760301	BIRD	ROADRUNNER		KIDNEY
VKL164L	IV	760301	BIRD	ROADRUNNER		LIVER
VKL164M	IV	760301	BIRD	ROADRUNNER		MUSCLE
VKL164U	IV	760301	BIRD	ROADRUNNER		LUNG
VKL165B	IV	760305	BIRD	ROADRUNNER		BRAIN
VKL165H	IV	760305	BIRD	ROADRUNNER		HEART
VKL165K	IV	760305	BIRD	ROADRUNNER		KIDNEY
VKL165L	IV	760305	BIRD	ROADRUNNER		LIVER
VKL165M	IV	760305	BIRD	ROADRUNNER		MUSCLE
VKL165U	IV	760305	BIRD	ROADRUNNER		LUNG

Table IV-10. (Continued)

VKL167K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL167L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKL168K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL168L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKL169K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL169L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKL170K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL170L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKL171K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL171L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKL172K	IV	760902	BIRD	EGRET	CATTLE	KIDNEY
VKL172L	IV	760902	BIRD	EGRET	CATTLE	LIVER
VKD502B	SNWR	751122	BIRD	DUCK	BALDPATE	BRAIN
VKD502H	SNWR	751122	BIRD	DUCK	BALDPATE	HEART
VKD502K	SNWR	751122	BIRD	DUCK	BALDPATE	KIDNEY
VKD502L	SNWR	751122	BIRD	DUCK	BALDPATE	LIVER
VKD502U	SNWR	751122	BIRD	DUCK	BALDPATE	LUNG
VKD503B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD503H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD503K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD503L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD503U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD504B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD504H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD504K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD504L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD504U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD505B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD505H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD505K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD505L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD505U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD506B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD506H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD506K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD506L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD506U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD507B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD507H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD507K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD507L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD507U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD508B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD508H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD508K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD508L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD508U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD509B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD509H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD509K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD509L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD509U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD510B	SNWR	751122	BIRD	DUCK	GADWALL	BRAIN
VKD510H	SNWR	751122	BIRD	DUCK	GADWALL	HEART
VKD510K	SNWR	751122	BIRD	DUCK	GADWALL	KIDNEY
VKD510L	SNWR	751122	BIRD	DUCK	GADWALL	LIVER
VKD510U	SNWR	751122	BIRD	DUCK	GADWALL	LUNG
VKD511B	SNWR	751122	BIRD	DUCK	GADWALL	BRAIN
VKD511H	SNWR	751122	BIRD	DUCK	GADWALL	HEART
VKD511K	SNWR	751122	BIRD	DUCK	GADWALL	KIDNEY

Table IV-10. (Continued)

VKD511L	SNWR	751122	BIRD	DUCK	GADWALL	LIVER
VKD511U	SNWR	751122	BIRD	DUCK	GADWALL	LUNG
VKD512B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD512H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD512K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD512L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD512U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD513B	SNWR	751122	BIRD	DUCK	GADWALL	BRAIN
VKD513H	SNWR	751122	BIRD	DUCK	GADWALL	HEART
VKD513K	SNWR	751122	BIRD	DUCK	GADWALL	KIDNEY
VKD513L	SNWR	751122	BIRD	DUCK	GADWALL	LIVER
VKD513U	SNWR	751122	BIRD	DUCK	GADWALL	LUNG
VKD514B	SNWR	751122	BIRD	DUCK	PINTAIL	BRAIN
VKD514H	SNWR	751122	BIRD	DUCK	PINTAIL	HEART
VKD514K	SNWR	751122	BIRD	DUCK	PINTAIL	KIDNEY
VKD514L	SNWR	751122	BIRD	DUCK	PINTAIL	LIVER
VKD514U	SNWR	751122	BIRD	DUCK	PINTAIL	LUNG
VKD515B	SNWR	751122	BIRD	DUCK	MALLARD	BRAIN
VKD515H	SNWR	751122	BIRD	DUCK	MALLARD	HEART
VKD515K	SNWR	751122	BIRD	DUCK	MALLARD	KIDNEY
VKD515L	SNWR	751122	BIRD	DUCK	MALLARD	LIVER
VKD515U	SNWR	751122	BIRD	DUCK	MALLARD	LUNG
VKD516B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD516H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD516K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD516L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD516U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD517B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD517H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD517K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD517L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD517U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD518B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD518H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD518K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD518L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD518U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD519B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD519H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD519K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD519L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD519U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD520B	SNWR	751122	BIRD	DUCK	PINTAIL	BRAIN
VKD520H	SNWR	751122	BIRD	DUCK	PINTAIL	HEART
VKD520K	SNWR	751122	BIRD	DUCK	PINTAIL	KIDNEY
VKD520L	SNWR	751122	BIRD	DUCK	PINTAIL	LIVER
VKD520U	SNWR	751122	BIRD	DUCK	PINTAIL	LUNG
VKD521B	SNWR	751122	BIRD	DUCK	WIDGEON	BRAIN
VKD521H	SNWR	751122	BIRD	DUCK	WIDGEON	HEART
VKD521K	SNWR	751122	BIRD	DUCK	WIDGEON	KIDNEY
VKD521L	SNWR	751122	BIRD	DUCK	WIDGEON	LIVER
VKD521U	SNWR	751122	BIRD	DUCK	WIDGEON	LUNG
VKD522B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD522H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD522K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD522L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD522U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD524B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD524H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD524K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY

Table IV-10. (Continued)

VKD524L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD524U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD525B	SNWR	751122	BIRD	DUCK	MALLARD	BRAIN
VKD525H	SNWR	751122	BIRD	DUCK	MALLARD	HEART
VKD525K	SNWR	751122	BIRD	DUCK	MALLARD	KIDNEY
VKD525L	SNWR	751122	BIRD	DUCK	MALLARD	LIVER
VKD525U	SNWR	751122	BIRD	DUCK	MALLARD	LUNG
VKD526B	SNWR	751122	BIRD	DUCK	MALLARD	BRAIN
VKD526H	SNWR	751122	BIRD	DUCK	MALLARD	HEART
VKD526K	SNWR	751122	BIRD	DUCK	MALLARD	KIDNEY
VKD526L	SNWR	751122	BIRD	DUCK	MALLARD	LIVER
VKD526U	SNWR	751122	BIRD	DUCK	MALLARD	LUNG
VKD527B	SNWR	751122	BIRD	DUCK	MALLARD	BRAIN
VKD527H	SNWR	751122	BIRD	DUCK	MALLARD	HEART
VKD527K	SNWR	751122	BIRD	DUCK	MALLARD	KIDNEY
VKD527L	SNWR	751122	BIRD	DUCK	MALLARD	LIVER
VKD527U	SNWR	751122	BIRD	DUCK	MALLARD	LUNG
VKD528B	SNWR	751122	BIRD	DUCK	GADWALL	BRAIN
VKD528H	SNWR	751122	BIRD	DUCK	GADWALL	HEART
VKD528K	SNWR	751122	BIRD	DUCK	GADWALL	KIDNEY
VKD528L	SNWR	751122	BIRD	DUCK	GADWALL	LIVER
VKD528U	SNWR	751122	BIRD	DUCK	GADWALL	LUNG
VKD529B	SNWR	751122	BIRD	DUCK	MALLARD	BRAIN
VKD529H	SNWR	751122	BIRD	DUCK	MALLARD	HEART
VKD529K	SNWR	751122	BIRD	DUCK	MALLARD	KIDNEY
VKD529L	SNWR	751122	BIRD	DUCK	MALLARD	LIVER
VKD529U	SNWR	751122	BIRD	DUCK	MALLARD	LUNG
VKD530B	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD530H	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	HEART
VKD530K	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD530L	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD530U	SNWR	751122	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD531B	SNWR	751122	BIRD	DUCK	WIDGEON	BRAIN
VKD531H	SNWR	751122	BIRD	DUCK	WIDGEON	HEART
VKD531K	SNWR	751122	BIRD	DUCK	WIDGEON	KIDNEY
VKD531L	SNWR	751122	BIRD	DUCK	WIDGEON	LIVER
VKD531U	SNWR	751122	BIRD	DUCK	WIDGEON	LUNG
VKD532B	SNWR	751122	BIRD	DUCK	WIDGEON	BRAIN
VKD532H	SNWR	751122	BIRD	DUCK	WIDGEON	HEART
VKD532K	SNWR	751122	BIRD	DUCK	WIDGEON	KIDNEY
VKD532L	SNWR	751122	BIRD	DUCK	WIDGEON	LIVER
VKD532U	SNWR	751122	BIRD	DUCK	WIDGEON	LUNG
VKD535B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD535H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD535K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD535L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD535U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD536B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD536H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD536K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD536L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD536U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD537B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD537H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD537K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY
VKD537L	SNWR	751122	BIRD	DUCK	SHOVELER	LIVER
VKD537U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKD539B	SNWR	751122	BIRD	DUCK	SHOVELER	BRAIN
VKD539H	SNWR	751122	BIRD	DUCK	SHOVELER	HEART
VKD539K	SNWR	751122	BIRD	DUCK	SHOVELER	KIDNEY

Table IV-10. (Continued)

VKD539U	SNWR	751122	BIRD	DUCK	SHOVELER	LUNG
VKG501B	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG501H	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	HEART
VKG501K	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG501L	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG501U	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG523B	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG523H	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	HEART
VKG523K	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG523L	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG523U	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG533B	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG533H	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	HEART
VKG533K	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG533L	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG533U	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG534B	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG534H	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	HEART
VKG534K	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG534L	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG534U	SNWR	751122	BIRD	GOOSE	SNOWGOOSE	LUNG
VKL538B	SNWR	751122	BIRD	PHEASANT		BRAIN
VKL538H	SNWR	751122	BIRD	PHEASANT		HEART
VKL538K	SNWR	751122	BIRD	PHEASANT		KIDNEY
VKL538L	SNWR	751122	BIRD	PHEASANT		LIVER
VKL538U	SNWR	751122	BIRD	PHEASANT		LUNG
VKL540B	SNWR	751122	BIRD	PHEASANT		BRAIN
VKL540H	SNWR	751122	BIRD	PHEASANT		HEART
VKL540L	SNWR	751122	BIRD	PHEASANT		LIVER
VKL540U	SNWR	751122	BIRD	PHEASANT		LUNG
VKD001B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD001H	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	HEART
VKD001K	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD001L	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD001U	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD002B	WNWR	751023	BIRD	DUCK	CANVASBACK	BRAIN
VKD002H	WNWR	751023	BIRD	DUCK	CANVASBACK	HEART
VKD002L	WNWR	751023	BIRD	DUCK	CANVASBACK	LIVER
VKD002U	WNWR	751023	BIRD	DUCK	CANVASBACK	LUNG
VKD003B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD003H	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	HEART
VKD003K	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD003L	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD004B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD004H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD004K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD004L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD004U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD005B	WNWR	751023	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD005H	WNWR	751023	BIRD	DUCK	RUDDYDUCK	HEART
VKD005K	WNWR	751023	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD005L	WNWR	751023	BIRD	DUCK	RUDDYDUCK	LIVER
VKD005U	WNWR	751023	BIRD	DUCK	RUDDYDUCK	LUNG
VKD006B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD006H	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	HEART
VKD006K	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD006L	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD006U	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD007B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD007H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART

Table IV-10. (Continued)

VKD007K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD007L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD007U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD008B	WNWR	751023	BIRD	DUCK	WIDGEON	BRAIN
VKD008H	WNWR	751023	BIRD	DUCK	WIDGEON	HEART
VKD008K	WNWR	751023	BIRD	DUCK	WIDGEON	KIDNEY
VKD008L	WNWR	751023	BIRD	DUCK	WIDGEON	LIVER
VKD008U	WNWR	751023	BIRD	DUCK	WIDGEON	LUNG
VKD009B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD009H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD009K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD009L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD009U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD010B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD010H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD010K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD010L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD010U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD011B	WNWR	751023	BIRD	DUCK	SHOVELER	BRAIN
VKD011H	WNWR	751023	BIRD	DUCK	SHOVELER	HEART
VKD011K	WNWR	751023	BIRD	DUCK	SHOVELER	KIDNEY
VKD011L	WNWR	751023	BIRD	DUCK	SHOVELER	LIVER
VKD011U	WNWR	751023	BIRD	DUCK	SHOVELER	LUNG
VKD012B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD012H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD012K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD012L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD012U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD013B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD013H	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	HEART
VKD013K	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD013L	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD013U	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD014B	WNWR	751023	BIRD	DUCK	SHOVELER	BRAIN
VKD014H	WNWR	751023	BIRD	DUCK	SHOVELER	HEART
VKD014K	WNWR	751023	BIRD	DUCK	SHOVELER	KIDNEY
VKD014L	WNWR	751023	BIRD	DUCK	SHOVELER	LIVER
VKD014U	WNWR	751023	BIRD	DUCK	SHOVELER	LUNG
VKD015B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN
VKD015H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD015K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD015L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD015U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD016B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD016K	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD016U	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD017B	WNWR	751023	BIRD	DUCK	BALDPATE	BRAIN
VKD017H	WNWR	751023	BIRD	DUCK	BALDPATE	HEART
VKD017K	WNWR	751023	BIRD	DUCK	BALDPATE	KIDNEY
VKD017L	WNWR	751023	BIRD	DUCK	BALDPATE	LIVER
VKD018B	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD018H	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	HEART
VKD018L	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD018U	WNWR	751023	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD021B	WNWR	751023	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD021H	WNWR	751023	BIRD	DUCK	RUDDYDUCK	HEART
VKD021K	WNWR	751023	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD021L	WNWR	751023	BIRD	DUCK	RUDDYDUCK	LIVER
VKD021U	WNWR	751023	BIRD	DUCK	RUDDYDUCK	LUNG
VKD022B	WNWR	751023	BIRD	DUCK	PINTAIL	BRAIN

Table IV-10. (Continued)

VKD022H	WNWR	751023	BIRD	DUCK	PINTAIL	HEART
VKD022K	WNWR	751023	BIRD	DUCK	PINTAIL	KIDNEY
VKD022L	WNWR	751023	BIRD	DUCK	PINTAIL	LIVER
VKD022U	WNWR	751023	BIRD	DUCK	PINTAIL	LUNG
VKD023B	WNWR	751023	BIRD	DUCK	SHOVELER	BRAIN
VKD023H	WNWR	751023	BIRD	DUCK	SHOVELER	HEART
VKD023K	WNWR	751023	BIRD	DUCK	SHOVELER	KIDNEY
VKD023L	WNWR	751023	BIRD	DUCK	SHOVELER	LIVER
VKD023U	WNWR	751023	BIRD	DUCK	SHOVELER	LUNG
VKW131B	WNWR	751023	BIRD	AVOSET		BRAIN
VKW131H	WNWR	751023	BIRD	AVOSET		HEART
VKW131K	WNWR	751023	BIRD	AVOSET		KIDNEY
VKW131L	WNWR	751023	BIRD	AVOSET		LIVER
VKW131U	WNWR	751023	BIRD	AVOSET		LUNG
VKW132B	WNWR	751023	BIRD	PELICAN		BRAIN
VKW132H	WNWR	751023	BIRD	PELICAN		HEART
VKW132K	WNWR	751023	BIRD	PELICAN		KIDNEY
VKW132L	WNWR	751023	BIRD	PELICAN		LIVER
VKW132U	WNWR	751023	BIRD	PELICAN		LUNG
VKD019B	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD019H	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	HEART
VKD019K	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD019L	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD019U	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD020B	WNWR	751024	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD020H	WNWR	751024	BIRD	DUCK	RUDDYDUCK	HEART
VKD020K	WNWR	751024	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD020L	WNWR	751024	BIRD	DUCK	RUDDYDUCK	LIVER
VKD020U	WNWR	751024	BIRD	DUCK	RUDDYDUCK	LUNG
VKD024B	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD024H	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	HEART
VKD024K	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD024L	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD024U	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD025B	WNWR	751024	BIRD	DUCK	WIDGEON	BRAIN
VKD025H	WNWR	751024	BIRD	DUCK	WIDGEON	HEART
VKD025K	WNWR	751024	BIRD	DUCK	WIDGEON	KIDNEY
VKD025L	WNWR	751024	BIRD	DUCK	WIDGEON	LIVER
VKD025U	WNWR	751024	BIRD	DUCK	WIDGEON	LUNG
VKD026B	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD026H	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	HEART
VKD026K	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD026L	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD026U	WNWR	751024	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD027B	WNWR	751024	BIRD	DUCK	PINTAIL	BRAIN
VKD027H	WNWR	751024	BIRD	DUCK	PINTAIL	HEART
VKD027K	WNWR	751024	BIRD	DUCK	PINTAIL	KIDNEY
VKD027L	WNWR	751024	BIRD	DUCK	PINTAIL	LIVER
VKD027U	WNWR	751024	BIRD	DUCK	PINTAIL	LUNG
VKD028B	WNWR	751024	BIRD	DUCK	PINTAIL	BRAIN
VKD028H	WNWR	751024	BIRD	DUCK	PINTAIL	HEART
VKD028K	WNWR	751024	BIRD	DUCK	PINTAIL	KIDNEY
VKD028L	WNWR	751024	BIRD	DUCK	PINTAIL	LIVER
VKD028U	WNWR	751024	BIRD	DUCK	PINTAIL	LUNG
VKD029B	WNWR	751101	BIRD	DUCK	BUFFLEHEAD	BRAIN
VKD029H	WNWR	751101	BIRD	DUCK	BUFFLEHEAD	HEART
VKD029K	WNWR	751101	BIRD	DUCK	BUFFLEHEAD	KIDNEY
VKD029L	WNWR	751101	BIRD	DUCK	BUFFLEHEAD	LIVER
VKD029U	WNWR	751101	BIRD	DUCK	BUFFLEHEAD	LUNG
VKD030H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART

Table IV-10. (Continued)

VKD030K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD030L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD030U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD031B	WNWR	751101	BIRD	DUCK	SHOVELER	BRAIN
VKD031H	WNWR	751101	BIRD	DUCK	SHOVELER	HEART
VKD031K	WNWR	751101	BIRD	DUCK	SHOVELER	KIDNEY
VKD031L	WNWR	751101	BIRD	DUCK	SHOVELER	LIVER
VKD031U	WNWR	751101	BIRD	DUCK	SHOVELER	LUNG
VKD032B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD032H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD032K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD032L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD032U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD033B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD033H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD033K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD033L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD033U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD034B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD034H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD034K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD034L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD034U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD035B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD035H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD035K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD035L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD035U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD036B	WNWR	751101	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD036H	WNWR	751101	BIRD	DUCK	RUDDYDUCK	HEART
VKD036K	WNWR	751101	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD036L	WNWR	751101	BIRD	DUCK	RUDDYDUCK	LIVER
VKD036U	WNWR	751101	BIRD	DUCK	RUDDYDUCK	LUNG
VKD037B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD037H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD037K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD037L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD037U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD038B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD038H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD038K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD038L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD038U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD040B	WNWR	751101	BIRD	DUCK	REDHEAD	BRAIN
VKD040H	WNWR	751101	BIRD	DUCK	REDHEAD	HEART
VKD040K	WNWR	751101	BIRD	DUCK	REDHEAD	KIDNEY
VKD040L	WNWR	751101	BIRD	DUCK	REDHEAD	LIVER
VKD040U	WNWR	751101	BIRD	DUCK	REDHEAD	LUNG
VKD041B	WNWR	751101	BIRD	DUCK	MALLARD	BRAIN
VKD041H	WNWR	751101	BIRD	DUCK	MALLARD	HEART
VKD041K	WNWR	751101	BIRD	DUCK	MALLARD	KIDNEY
VKD041L	WNWR	751101	BIRD	DUCK	MALLARD	LIVER
VKD041U	WNWR	751101	BIRD	DUCK	MALLARD	LUNG
VKD042B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD042H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD042K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD042L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD042U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD043B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD043H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART

Table IV-10. (Continued)

VKD043K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD043L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD043U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD044B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD044H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD044K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD044L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD044U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD045B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD045H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD045K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD045L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD045U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD046B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD046H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD046K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD046L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD046U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD047B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD047H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD047K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD047L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD047U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD048B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD048H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD048K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD048L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD048U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD049B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD049H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD049K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD049L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD049U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD050B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD050H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD050K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD050L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD050U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD051B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD051H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD051K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD051L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD051U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD052B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD052H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD052K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD052L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD052U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD053B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD053H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD053K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD053L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD053U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD054B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD054H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD054K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD054L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD054U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD055B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD055H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART

Table IV-10. (Continued)

VKD055K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD055L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD055U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD056B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD056H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD056K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD056L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD056U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD057B	WNWR	751101	BIRD	DUCK	PINTAIL	BRAIN
VKD057H	WNWR	751101	BIRD	DUCK	PINTAIL	HEART
VKD057K	WNWR	751101	BIRD	DUCK	PINTAIL	KIDNEY
VKD057L	WNWR	751101	BIRD	DUCK	PINTAIL	LIVER
VKD057U	WNWR	751101	BIRD	DUCK	PINTAIL	LUNG
VKD058B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD058H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD058K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD058L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD058U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD059B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD059H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD059K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD059L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD059U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD060B	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD060H	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	HEART
VKD060K	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD060L	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD060U	WNWR	751101	BIRD	DUCK	GREENWINGTEAL	LUNG
VKG039B	WNWR	751101	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG039H	WNWR	751101	BIRD	GOOSE	CANADAGOOSE	HEART
VKG039K	WNWR	751101	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG039L	WNWR	751101	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG039U	WNWR	751101	BIRD	GOOSE	CANADAGOOSE	LUNG
VKD062B	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD062H	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	HEART
VKD062K	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD062L	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD062U	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD063B	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD063H	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	HEART
VKD063K	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD063L	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD063U	WNWR	751102	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD064B	WNWR	751102	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD064H	WNWR	751102	BIRD	DUCK	RUDDYDUCK	HEART
VKD064K	WNWR	751102	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD064L	WNWR	751102	BIRD	DUCK	RUDDYDUCK	LIVER
VKD064U	WNWR	751102	BIRD	DUCK	RUDDYDUCK	LUNG
VKD065B	WNWR	751102	BIRD	DUCK	SHOVELER	BRAIN
VKD065H	WNWR	751102	BIRD	DUCK	SHOVELER	HEART
VKD065K	WNWR	751102	BIRD	DUCK	SHOVELER	KIDNEY
VKD065L	WNWR	751102	BIRD	DUCK	SHOVELER	LIVER
VKD065U	WNWR	751102	BIRD	DUCK	SHOVELER	LUNG
VKD066B	WNWR	751102	BIRD	DUCK	PINTAIL	BRAIN
VKD066H	WNWR	751102	BIRD	DUCK	PINTAIL	HEART
VKD066K	WNWR	751102	BIRD	DUCK	PINTAIL	KIDNEY
VKD066L	WNWR	751102	BIRD	DUCK	PINTAIL	LIVER
VKD066U	WNWR	751102	BIRD	DUCK	PINTAIL	LUNG
VKD067B	WNWR	751102	BIRD	DUCK	PINTAIL	BRAIN
VKD067H	WNWR	751102	BIRD	DUCK	PINTAIL	HEART

Table IV-10. (Continued)

VKD067K	WNWR	751102	BIRD	DUCK	PINTAIL	KIDNEY
VKD067L	WNWR	751102	BIRD	DUCK	PINTAIL	LIVER
VKD067U	WNWR	751102	BIRD	DUCK	PINTAIL	LUNG
VKD068B	WNWR	751102	BIRD	DUCK	BUFFLEHEAD	BRAIN
VKD068H	WNWR	751102	BIRD	DUCK	BUFFLEHEAD	HEART
VKD068K	WNWR	751102	BIRD	DUCK	BUFFLEHEAD	KIDNEY
VKD068L	WNWR	751102	BIRD	DUCK	BUFFLEHEAD	LIVER
VKD068U	WNWR	751102	BIRD	DUCK	BUFFLEHEAD	LUNG
VKD069B	WNWR	751102	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD069H	WNWR	751102	BIRD	DUCK	RUDDYDUCK	HEART
VKD069K	WNWR	751102	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD069L	WNWR	751102	BIRD	DUCK	RUDDYDUCK	LIVER
VKD069U	WNWR	751102	BIRD	DUCK	RUDDYDUCK	LUNG
VKG061B	WNWR	751102	BIRD	GOOSE	CANADAGOOSE	BRAIN
VKG061H	WNWR	751102	BIRD	GOOSE	CANADAGOOSE	HEART
VKG061K	WNWR	751102	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG061L	WNWR	751102	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG061U	WNWR	751102	BIRD	GOOSE	CANADAGOOSE	LUNG
VKD070B	WNWR	760117	BIRD	DUCK	REDHEAD	BRAIN
VKD070H	WNWR	760117	BIRD	DUCK	REDHEAD	HEART
VKD070K	WNWR	760117	BIRD	DUCK	REDHEAD	KIDNEY
VKD070L	WNWR	760117	BIRD	DUCK	REDHEAD	LIVER
VKD070U	WNWR	760117	BIRD	DUCK	REDHEAD	LUNG
VKD072B	WNWR	760117	BIRD	DUCK	GOLDENEYE	BRAIN
VKD072H	WNWR	760117	BIRD	DUCK	GOLDENEYE	HEART
VKD072K	WNWR	760117	BIRD	DUCK	GOLDENEYE	KIDNEY
VKD072L	WNWR	760117	BIRD	DUCK	GOLDENEYE	LIVER
VKD072U	WNWR	760117	BIRD	DUCK	GOLDENEYE	LUNG
VKD073B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD073H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD073K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD073L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD073U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD074B	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	BRAIN
VKD074H	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	HEART
VKD074K	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	KIDNEY
VKD074L	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	LIVER
VKD074U	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	LUNG
VKD077B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD077H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD077K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD077L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD077U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD078B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD078K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD078L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD078U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD079B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD079H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD079K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD079L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD079U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD081B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD081H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD081K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD081L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD081U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD082B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD082H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD082K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY

Table IV-10. (Continued)

VKD082L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD082U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD084B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD084H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD084K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD084L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD084U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD085B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD085H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD085K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD085L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD085U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD086B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD086H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD086K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD086L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD086U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD087B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD087H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD087K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD087L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD087U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD088B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD088H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD088K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD088L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD088U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD089B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD089H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD089K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD089L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD089U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD090B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD090H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD090K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD090L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD090U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD091B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD091H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD091K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD091L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD091U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD092B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD092H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD092K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD092L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD092U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD093B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD093H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD093K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD093L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD093U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD094B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD094H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD094K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD094L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD094U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD095B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD095H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD095K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY

Table IV-10. (Continued)

VKD095L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD095U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD096B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD096H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD096K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD096L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD096U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD097B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD097H	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	HEART
VKD097K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD097L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD097U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD098B	WNWR	760117	BIRD	DUCK	SHOVELER	BRAIN
VKD098H	WNWR	760117	BIRD	DUCK	SHOVELER	HEART
VKD098K	WNWR	760117	BIRD	DUCK	SHOVELER	KIDNEY
VKD098L	WNWR	760117	BIRD	DUCK	SHOVELER	LIVER
VKD098U	WNWR	760117	BIRD	DUCK	SHOVELER	LUNG
VKD100B	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	BRAIN
VKD100H	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	HEART
VKD100K	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	KIDNEY
VKD100L	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	LIVER
VKD100U	WNWR	760117	BIRD	DUCK	CINNAMONTEAL	LUNG
VKD101B	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD101K	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD101L	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD101U	WNWR	760117	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD102B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD102H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD102K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD102L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD102U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD106B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD106H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD106K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD106L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD106U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKD108B	WNWR	760117	BIRD	DUCK	PINTAIL	BRAIN
VKD108H	WNWR	760117	BIRD	DUCK	PINTAIL	HEART
VKD108K	WNWR	760117	BIRD	DUCK	PINTAIL	KIDNEY
VKD108L	WNWR	760117	BIRD	DUCK	PINTAIL	LIVER
VKD108U	WNWR	760117	BIRD	DUCK	PINTAIL	LUNG
VKG071B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG071H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG071K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG071L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG071U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG075B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG075H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG075K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG075L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG075U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG076B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG076H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG076K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG076L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG076U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG080B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG080H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG080K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG080L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER

Table IV-10. (Continued)

VKG080U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG083B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG083H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG083K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG083L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG083U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG099B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG099H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG099K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG099L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG099U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG103B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG103H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG103K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG103L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG103U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG104B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG104H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG104K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG104L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG104U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG105B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG105H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG105K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG105L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG105U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG107B	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG107H	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	HEART
VKG107K	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG107L	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG107U	WNWR	760117	BIRD	GOOSE	SNOWGOOSE	LUNG
VKD110B	WNWR	760118	BIRD	DUCK	GREENWINGTEAL	BRAIN
VKD110H	WNWR	760118	BIRD	DUCK	GREENWINGTEAL	HEART
VKD110K	WNWR	760118	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD110L	WNWR	760118	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD110U	WNWR	760118	BIRD	DUCK	GREENWINGTEAL	LUNG
VKD111B	WNWR	760118	BIRD	DUCK	SHOVELER	BRAIN
VKD111H	WNWR	760118	BIRD	DUCK	SHOVELER	HEART
VKD111K	WNWR	760118	BIRD	DUCK	SHOVELER	KIDNEY
VKD111L	WNWR	760118	BIRD	DUCK	SHOVELER	LIVER
VKD111U	WNWR	760118	BIRD	DUCK	SHOVELER	LUNG
VKD112B	WNWR	760118	BIRD	DUCK	SHOVELER	BRAIN
VKD112H	WNWR	760118	BIRD	DUCK	SHOVELER	HEART
VKD112K	WNWR	760118	BIRD	DUCK	SHOVELER	KIDNEY
VKD112L	WNWR	760118	BIRD	DUCK	SHOVELER	LIVER
VKD112U	WNWR	760118	BIRD	DUCK	SHOVELER	LUNG
VKD113B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKD113H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKD113K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKD113L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKD113U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKD114B	WNWR	760118	BIRD	DUCK	PINTAIL	BRAIN
VKD114H	WNWR	760118	BIRD	DUCK	PINTAIL	HEART
VKD114K	WNWR	760118	BIRD	DUCK	PINTAIL	KIDNEY
VKD114L	WNWR	760118	BIRD	DUCK	PINTAIL	LIVER
VKD114U	WNWR	760118	BIRD	DUCK	PINTAIL	LUNG
VKD115B	WNWR	760118	BIRD	DUCK	SHOVELER	BRAIN
VKD115H	WNWR	760118	BIRD	DUCK	SHOVELER	HEART
VKD115K	WNWR	760118	BIRD	DUCK	SHOVELER	KIDNEY
VKD115L	WNWR	760118	BIRD	DUCK	SHOVELER	LIVER

Table IV-10. (Continued)

VKD115U	WNWR	760118	BIRD	DUCK	SHOVELER	LUNG
VKD116B	WNWR	760118	BIRD	DUCK	SHOVELER	BRAIN
VKD116H	WNWR	760118	BIRD	DUCK	SHOVELER	HEART
VKD116K	WNWR	760118	BIRD	DUCK	SHOVELER	KIDNEY
VKD116L	WNWR	760118	BIRD	DUCK	SHOVELER	LIVER
VKD116U	WNWR	760118	BIRD	DUCK	SHOVELER	LUNG
VKD118B	WNWR	760118	BIRD	DUCK	PINTAIL	BRAIN
VKD118H	WNWR	760118	BIRD	DUCK	PINTAIL	HEART
VKD118K	WNWR	760118	BIRD	DUCK	PINTAIL	KIDNEY
VKD118L	WNWR	760118	BIRD	DUCK	PINTAIL	LIVER
VKD118U	WNWR	760118	BIRD	DUCK	PINTAIL	LUNG
VKD119B	WNWR	760118	BIRD	DUCK	PINTAIL	BRAIN
VKD119H	WNWR	760118	BIRD	DUCK	PINTAIL	HEART
VKD119K	WNWR	760118	BIRD	DUCK	PINTAIL	KIDNEY
VKD119L	WNWR	760118	BIRD	DUCK	PINTAIL	LIVER
VKD119U	WNWR	760118	BIRD	DUCK	PINTAIL	LUNG
VKD120B	WNWR	760118	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD120H	WNWR	760118	BIRD	DUCK	RUDDYDUCK	HEART
VKD120K	WNWR	760118	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD120L	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LIVER
VKD120U	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LUNG
VKD121B	WNWR	760118	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD121H	WNWR	760118	BIRD	DUCK	RUDDYDUCK	HEART
VKD121K	WNWR	760118	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD121L	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LIVER
VKD121U	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LUNG
VKD122B	WNWR	760118	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD122H	WNWR	760118	BIRD	DUCK	RUDDYDUCK	HEART
VKD122K	WNWR	760118	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD122L	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LIVER
VKD122U	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LUNG
VKD123B	WNWR	760118	BIRD	DUCK	RUDDYDUCK	BRAIN
VKD123H	WNWR	760118	BIRD	DUCK	RUDDYDUCK	HEART
VKD123K	WNWR	760118	BIRD	DUCK	RUDDYDUCK	KIDNEY
VKD123L	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LIVER
VKD123U	WNWR	760118	BIRD	DUCK	RUDDYDUCK	LUNG
VKD124B	WNWR	760118	BIRD	DUCK	PINTAIL	BRAIN
VKD124H	WNWR	760118	BIRD	DUCK	PINTAIL	HEART
VKD124K	WNWR	760118	BIRD	DUCK	PINTAIL	KIDNEY
VKD124L	WNWR	760118	BIRD	DUCK	PINTAIL	LIVER
VKD124U	WNWR	760118	BIRD	DUCK	PINTAIL	LUNG
VKD125B	WNWR	760118	BIRD	DUCK	CINNAMONTEAL	BRAIN
VKD125H	WNWR	760118	BIRD	DUCK	CINNAMONTEAL	HEART
VKD125K	WNWR	760118	BIRD	DUCK	CINNAMONTEAL	KIDNEY
VKD125L	WNWR	760118	BIRD	DUCK	CINNAMONTEAL	LIVER
VKD125U	WNWR	760118	BIRD	DUCK	CINNAMONTEAL	LUNG
VKG109B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG109H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG109K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG109L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG109U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG113K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG113L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG117B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG117H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG117K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG117L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG117U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG126B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG126H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART

Table IV-10. (Continued)

VKG126K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG126L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG126U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG127B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG127H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG127K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG127L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG127U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG128B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG128H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG128K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG128L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG128U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG129B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG129H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG129K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG129L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG129U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG130B	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	BRAIN
VKG130H	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	HEART
VKG130K	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG130L	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG130U	WNWR	760118	BIRD	GOOSE	SNOWGOOSE	LUNG
VKG173K	WNWR	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG173L	WNWR	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKG174K	WNWR	760215	BIRD	GOOSE	CANADAGOOSE	KIDNEY
VKG174L	WNWR	760215	BIRD	GOOSE	CANADAGOOSE	LIVER
VKL147L	WNWR	760215	BIRD	HERON	GREATBLUE	
VKD176I	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	INTEST
VKD176K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD176L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD176Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD177K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD177L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD177Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD178K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD178L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD178Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD179K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD179L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD179Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD180K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD180L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD180Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD181K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD181L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD181Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD182K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD182L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD182Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD183K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD183L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD183Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD184K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD184L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD184Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD185K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD185L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD185Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD186K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY

Table IV-10. (Continued)

VKD186L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD186Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD187K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD187L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD187Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD188K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD188L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD188Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD189K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD189L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD189Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD190K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD190L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD190Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD191K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD191L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD191Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD192K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD192L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD192Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD193K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD193L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD193Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD194K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD194L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD194Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD195K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD195L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD195Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD196K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD196L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD196Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD197K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD197L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD197Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD198K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD198L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD198Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD199K	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD199L	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD199Z	WNWR	761023	BIRD	DUCK	GREENWINGTEAL	GUT
VKD200K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD200L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD200Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD228K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD228L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD228Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD229K	WNWR	761023	BIRD	DUCK	PINTAIL	KIDNEY
VKD229L	WNWR	761023	BIRD	DUCK	PINTAIL	LIVER
VKD229Z	WNWR	761023	BIRD	DUCK	PINTAIL	GUT
VKD201K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD201L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD201Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD202K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD202L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD202Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD205K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD205L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD205Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD207K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY

Table IV-10. (Continued)

VKD207L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD207Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD208K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD208L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD208Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD209K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD209L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD209Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD210K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD210L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD210Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD211K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD211L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD211Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD212K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD212L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD212Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD213K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD213L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD213Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD214K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD214L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD214Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD215K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD215L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD215Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD216K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD216L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD216Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD217K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD217L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD217Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD218K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD218L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD218Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD219K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD219L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD219Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD220K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD220L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD220Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD221K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD221L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD221Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD222K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD222L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD222Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD223K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD223L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD223Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD224K	WNWR	761024	BIRD	DUCK	GREENWINGTEAL	KIDNEY
VKD224L	WNWR	761024	BIRD	DUCK	GREENWINGTEAL	LIVER
VKD224Z	WNWR	761024	BIRD	DUCK	GREENWINGTEAL	GUT
VKD225K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD225L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD225Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD226K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY
VKD226L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD226Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKD227K	WNWR	761024	BIRD	DUCK	PINTAIL	KIDNEY

Table IV-10. (Concluded)

VKD227L	WNWR	761024	BIRD	DUCK	PINTAIL	LIVER
VKD227Z	WNWR	761024	BIRD	DUCK	PINTAIL	GUT
VKG203K	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG203L	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG203Z	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	GUT
VKG204K	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	KIDNEY
VKG204L	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	LIVER
VKG204Z	WNWR	761024	BIRD	GOOSE	SNOWGOOSE	GUT
VKG206K	WNWR	761024	BIRD	GOOSE	SPECKLED	KIDNEY
VKG206L	WNWR	761024	BIRD	GOOSE	SPECKLED	LIVER
VKG206Z	WNWR	761024	BIRD	GOOSE	SPECKLED	GUT

Table IV-11. Results of chemical analyses of shoreline habitat baseline samples of birds collected by LLL. The list is ordered by Sample Number.

SAMPLE	SITE	DATE	***** SAMPLE *****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD003K	WNR	751023	BIRD DUCK GREENWINGTEAL KIDNEY	9.035E+03 4.822E+02	8.876E+01 9.839E+00	8.715E+00 1.066E+01	3.373E+01	1.182E+00	
VKD003L	WNR	751023	BIRD DUCK GREENWINGTEAL LIVER	8.857E+03 8.013E+02	6.935E+01 7.016E+00	5.792E+00 5.701E+01 3.677E+00	4.829E+01 8.996E+00 5.613E-01		
VKD004B	WNR	751023	BIRD DUCK PINTAIL BRAIN	1.980E+04 1.209E+02	4.910E+01 6.553E+00	2.787E+00 1.365E+02 8.086E+00	3.934E+01 2.121E+00		
VKD004K	WNR	751023	BIRD DUCK PINTAIL KIDNEY	1.198E+04 5.388E+02	9.998E+01 1.612E+01	9.682E+00 1.924E+02 3.255E+01	3.210E+01 1.443E+01 4.524E-01		
VKD004L	WNR	751023	BIRD DUCK PINTAIL LIVER	1.008E+04 2.554E+03	1.417E+02 8.227E+00	7.869E+00 1.324E+02 2.088E+01	1.384E+02 1.685E+01 1.176E+00		
VKD004U	WNR	751023	BIRD DUCK PINTAIL LUNG	1.124E+04 1.507E+03	3.783E+01 7.285E+00	4.951E+00 3.077E+02 5.385E+01	5.422E+00 2.795E+00 8.832E-01		
VKD005K	WNR	751023	BIRD DUCK RUDDYDUCK KIDNEY	1.321E+04 8.260E+02	9.881E+01 4.828E+00 2.301E+00	2.841E+01 2.920E+02 1.637E+01	2.780E+01 1.786E+01 6.348E-01		
VKD005L	WNR	751023	BIRD DUCK RUDDYDUCK LIVER	1.161E+04 3.282E+03	1.443E+02 2.576E+00	3.793E+01 8.603E+01 7.164E+00	6.566E+01 2.450E+01 1.266E+00		
VKD006K	WNR	751023	BIRD DUCK GREENWINGTEAL KIDNEY	6.679E+03 3.656E+02	9.791E+01 8.287E+00	9.022E+00 1.156E+01	2.802E+01		
VKD006L	WNR	751023	BIRD DUCK GREENWINGTEAL LIVER	5.725E+03 1.180E+03	9.007E+01 4.353E+00	6.058E+00 6.743E+01 2.952E+00	1.153E+02 1.291E+01 7.143E-01		
VKD007H	WNR	751023	BIRD DUCK PINTAIL HEART	9.445E+03 2.283E+02	5.145E+01 9.431E+00	1.234E+00 9.419E+01 1.225E+01	1.196E+01		
VKD007K	WNR	751023	BIRD DUCK PINTAIL KIDNEY	1.274E+04 4.891E+02	8.366E+01 1.512E+01	6.485E+00 3.396E+02 1.825E+01	1.827E+01 1.305E+01 5.933E-01		
VKD007L	WNR	751023	BIRD DUCK PINTAIL LIVER	9.935E+03 3.508E+03	1.175E+02 1.169E+01	7.289E+00 1.566E+02 1.375E+01	7.447E+01 1.921E+01 1.263E+00		
VKD007U	WNR	751023	BIRD DUCK PINTAIL LUNG	1.196E+04 1.367E+03	4.587E+01 5.948E+00 1.803E+00	6.878E+00 5.888E+02 3.016E+01	2.957E+00 2.044E+00 8.659E-01	1.511E+00	

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD009B	HNHR	751023	BIRD DUCK	PINTAIL	BRAIN	2.156E+04 1.134E+02	5.239E+01 5.476E+00	9.943E-01 8.739E+01 4.087E+00	1.941E+01 2.435E+00 6.085E-01		
VKD009H	HNHR	751023	BIRD DUCK	PINTAIL	HEART	1.070E+04 3.005E+02	6.977E+01 5.082E+00	8.377E-01 8.252E+01 1.060E+01	1.533E+01 2.183E+00 8.277E-01		
VKD009K	HNHR	751023	BIRD DUCK	PINTAIL	KIDNEY	1.380E+04 4.338E+02	1.143E+02 9.273E+00	5.053E+00 3.428E+02 1.879E+01	4.343E+01 1.134E+01 7.660E-01		
VKD009L	HNHR	751023	BIRD DUCK	PINTAIL	LIVER	1.117E+04 2.918E+03	1.630E+02 6.832E+00	3.646E+00 9.881E+01 7.761E+00	1.354E+02 1.753E+01 1.272E+00		
VKD009U	HNHR	751023	BIRD DUCK	PINTAIL	LUNG	1.391E+04 1.372E+03	5.203E+01 5.522E+00	1.752E+00 6.639E+02 3.007E+01	4.407E+00 3.618E+00 8.887E-01		
VKD010L	HNHR	751023	BIRD DUCK	PINTAIL	LIVER	1.191E+04 3.880E+03	2.038E+02 5.330E+00 9.229E+00	7.995E+00 1.739E+02 4.259E+00	1.600E+02 1.944E+01 1.692E+00		
VKD011K	HNHR	751023	BIRD DUCK	SHOVELER	KIDNEY	9.909E+03 1.577E+03	8.518E+01 8.341E+00	1.223E+01 4.424E+02 4.496E+01	3.881E+01 9.918E+00 1.010E+00	6.922E-01	
VKD011L	HNHR	751023	BIRD DUCK	SHOVELER	LIVER	1.158E+04 5.959E+03	1.643E+02 8.597E+00	1.465E+01 2.206E+02 3.146E+01	1.600E+02 2.318E+01 2.338E+00	8.066E-01	
VKD012K	HNHR	751023	BIRD DUCK	PINTAIL	KIDNEY	1.406E+04 6.528E+02	9.973E+01 8.482E+00	6.682E+00 2.173E+02 9.278E+00	2.047E+01 1.307E+01		
VKD012L	HNHR	751023	BIRD DUCK	PINTAIL	LIVER	1.129E+04 4.536E+03	2.131E+02 4.410E+00	6.261E+00 2.010E+02 3.718E+00	2.998E+01 2.383E+01 1.852E+00	1.300E+00	
VKD013K	HNHR	751023	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.309E+04 8.860E+02	9.316E+01 9.625E+00 1.999E+00	1.134E+01 2.289E+02 3.345E+01	3.198E+01 1.351E+01 6.465E-01		
VKD013L	HNHR	751023	BIRD DUCK	GREENWINGTEAL	LIVER	7.679E+03 1.622E+03	6.874E+01 4.693E+00	7.248E+00 8.868E+01 1.542E+01	4.094E+01 1.294E+01 7.040E-01		
VKD014L	HNHR	751023	BIRD DUCK	SHOVELER	LIVER	1.018E+04 3.923E+03	1.529E+02 9.976E+00	1.918E+01 1.100E+02 1.291E+01	7.243E+01 2.090E+01 1.522E+00		
VKD015K	HNHR	751023	BIRD DUCK	PINTAIL	KIDNEY	8.400E+03 2.128E+02	8.522E+01 3.412E+00	7.002E+00 1.875E+02 5.755E+00	2.387E+01 8.603E+00 5.594E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD015L	WNR	751023	BIRD DUCK	PINTAIL	LIVER	1.039E+04 2.258E+03	2.124E+02 2.636E+00	1.290E+01 1.322E+02 2.391E+00	2.379E+02 2.261E+01 1.155E+00		
VKD016K	WNR	751023	BIRD DUCK	GREENWINGTEAL	KIDNEY	6.822E+03 4.998E+02	9.325E+01 7.524E+00	1.361E+01 1.301E+01	3.511E+01		
VKD018L	WNR	751023	BIRD DUCK	GREENWINGTEAL	LIVER	1.369E+04 2.603E+03	1.873E+02 1.047E+01	1.203E+01 8.443E+01 2.355E+01	7.188E+01 2.043E+01 1.071E+00		
VKD019K	WNR	751024	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.280E+04 3.104E+02	1.007E+02 7.513E+00	1.061E+01 1.965E+02 1.474E+01	2.183E+01 1.698E+01	1.638E+00	
VKD019L	WNR	751024	BIRD DUCK	GREENWINGTEAL	LIVER	1.084E+04 1.933E+03	9.562E+01 5.808E+00	1.397E+01 1.039E+02 7.700E+00	1.103E+02 1.463E+01 1.042E+00		
VKD020K	WNR	751024	BIRD DUCK	RUDDYDUCK	KIDNEY	1.205E+04 8.348E+02	8.643E+01 5.357E+00	1.729E+01 2.570E+02 1.088E+01	3.457E+01 1.373E+01 6.071E-01		
VKD020L	WNR	751024	BIRD DUCK	RUDDYDUCK	LIVER	1.082E+04 1.964E+03	9.128E+01 5.062E+00	3.622E+01 1.179E+02 5.164E+00	2.299E+02 1.319E+01 8.692E-01		
VKD021K	WNR	751023	BIRD DUCK	RUDDYDUCK	KIDNEY	1.317E+04 6.983E+02	9.356E+01 4.503E+00	1.272E+01 2.615E+02 1.061E+01	1.544E+01 1.123E+01 6.931E-01	1.065E+00	
VKD021L	WNR	751023	BIRD DUCK	RUDDYDUCK	LIVER	1.075E+04 2.470E+03	1.567E+02 4.030E+00	1.138E+01 1.261E+02 4.735E+00	1.717E+02 1.623E+01 9.576E-01		
VKD022K	WNR	751023	BIRD DUCK	PINTAIL	KIDNEY	1.387E+04 4.838E+02	9.763E+01 1.397E+01	1.301E+01 2.606E+02 8.592E+00	2.998E+01 1.386E+01	9.064E-01	
VKD022L	WNR	751023	BIRD DUCK	PINTAIL	LIVER	9.301E+03 1.272E+03	1.227E+02 8.165E+00	1.169E+01 1.534E+02 3.287E+00	6.230E+01 1.253E+01 7.638E-01		
VKD023K	WNR	751023	BIRD DUCK	SHOVELER	KIDNEY	1.118E+04 4.960E+02	9.917E+01 8.824E+00	1.787E+01 1.979E+02 3.945E+01	1.803E+01 1.266E+01 6.111E-01		
VKD023L	WNR	751023	BIRD DUCK	SHOVELER	LIVER	1.027E+04 7.186E+03	1.210E+02 5.841E+00	2.055E+01 1.460E+02 2.400E+01	6.525E+01 2.625E+01 2.616E+00	7.815E-01	
VKD024K	WNR	751024	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.324E+04 4.038E+02	9.406E+01 4.897E+00 1.090E+01	1.073E+01 3.163E+02 1.718E+01	1.725E+01 1.660E+01 6.293E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE *****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD024L	WNR	751024	BIRD DUCK	GREENWINGTEAL LIVER	8.432E+03 1.365E+03	1.033E+02 2.431E+00	8.679E+00 4.474E+01 5.734E+00	4.691E+01 1.817E+01 7.249E-01		
VKD026K	WNR	751024	BIRD DUCK	GREENWINGTEAL KIDNEY	1.245E+04 3.512E+02	1.058E+02 1.033E+01	1.179E+01 2.644E+02 1.711E+01	2.118E+01 1.267E+01		
VKD026L	WNR	751024	BIRD DUCK	GREENWINGTEAL LIVER	1.123E+04 2.418E+03	1.409E+02 6.396E+00	8.828E+00 1.265E+02 8.310E+00	2.006E+02 1.535E+01 1.118E+00		
VKD027K	WNR	751024	BIRD DUCK	PINTAIL KIDNEY	1.167E+04 4.986E+02	1.070E+02 1.299E+01	1.379E+01 3.058E+02 1.565E+01	2.034E+01 1.480E+01 5.264E-01	1.650E+00	
VKD027L	WNR	751024	BIRD DUCK	PINTAIL LIVER	9.261E+03 2.485E+03	2.233E+02 8.599E+00	1.987E+01 1.394E+02 6.838E+00	4.160E+01 1.452E+01 8.771E-01	2.172E+00	
VKD028K	WNR	751024	BIRD DUCK	PINTAIL KIDNEY	1.343E+04 4.594E+02	1.212E+02 2.004E+01	9.096E+00 3.356E+02 1.574E+01	2.433E+01 1.423E+01 6.714E-01		
VKD028L	WNR	751024	BIRD DUCK	PINTAIL LIVER	6.438E+03 1.680E+03 4.505E+00	2.305E+02 7.266E+00	5.775E+00 1.259E+02 6.634E+00	7.491E+01 1.535E+01 8.397E-01		
VKD030K	WNR	751101	BIRD DUCK	PINTAIL KIDNEY	1.167E+04 5.823E+02	8.518E+01 1.628E+01	9.393E+00 2.422E+02 1.754E+01	2.169E+01 7.956E+00 5.436E-01		
VKD030L	WNR	751101	BIRD DUCK	PINTAIL LIVER	9.772E+03 3.418E+03	1.381E+02 8.840E+00	9.602E+00 2.095E+02 8.219E+00	1.424E+02 1.627E+01 1.393E+00		
VKD031K	WNR	751101	BIRD DUCK	SHOVELER KIDNEY	1.212E+04 8.432E+02	7.561E+01 7.745E+00	1.118E+01 2.626E+02 6.556E+01	1.316E+01 1.031E+01 8.248E-01		
VKD031L	WNR	751101	BIRD DUCK	SHOVELER LIVER	1.082E+04 1.778E+03	1.234E+02 7.912E+00	1.355E+01 1.760E+02 4.521E+01	7.051E+01 1.343E+01 9.266E-01		
VKD032K	WNR	751101	BIRD DUCK	GREENWINGTEAL KIDNEY	1.376E+04 3.716E+02	1.041E+02 6.573E+00	1.613E+01 1.932E+02 1.827E+01	2.926E+01 1.665E+01 7.751E-01	1.505E+00	
VKD032L	WNR	751101	BIRD DUCK	GREENWINGTEAL LIVER	1.123E+04 3.890E+03	1.469E+02 3.833E+00	1.975E+01 1.296E+02 8.505E+00	8.558E+01 2.124E+01 1.557E+00		
VKD033K	WNR	751101	BIRD DUCK	GREENWINGTEAL KIDNEY	1.166E+04 5.567E+02	9.226E+01 5.869E+00	1.321E+01 2.031E+02 9.812E+00	2.169E+01 1.852E+01 8.290E-01	1.205E+00	

Table IV-11. (Continued)

SAMPLE	SITE	DATE		SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKD033L	WNR	751101	BIRD DUCK	GREENWINGTEAL LIVER		9.635E+03 4.156E+03	1.195E+02 3.139E+00	1.128E+01 1.380E+02 6.726E+00	1.299E+02 1.728E+01 1.474E+00		
VKD034K	WNR	751101	BIRD DUCK	GREENWINGTEAL KIDNEY		1.267E+04 5.345E+02	1.032E+02 5.377E+00	2.203E+01 2.151E+02 1.584E+01	3.256E+01 1.302E+01		
VKD034L	WNR	751101	BIRD DUCK	GREENWINGTEAL LIVER		8.570E+03 3.045E+03	1.383E+02 2.108E+00	1.912E+01 9.896E+01 9.915E+00	1.181E+02 1.740E+01 1.203E+00		
VKD035K	WNR	751101	BIRD DUCK	RUDDYDUCK KIDNEY		1.378E+04 6.845E+02	8.830E+01 3.462E+00	1.260E+01 2.699E+02 1.642E+01	1.679E+01 1.458E+01 6.059E-01		
VKD035L	WNR	751101	BIRD DUCK	RUDDYDUCK LIVER		1.172E+04 1.803E+03	1.207E+02 2.406E+00	1.357E+01 1.295E+02 8.692E+00	1.114E+02 2.894E+01 8.269E-01		
VKD037K	WNR	751101	BIRD DUCK	GREENWINGTEAL KIDNEY		1.128E+04 3.837E+02 1.183E+01	8.338E+01 5.094E+00 1.260E+01	1.156E+01 3.173E+02 1.260E+01	1.965E+01 1.622E+01	1.148E+00	
VKD037L	WNR	751101	BIRD DUCK	GREENWINGTEAL LIVER		9.539E+03 1.600E+03	9.891E+01 3.469E+00	1.079E+01 6.689E+01 9.202E+00	8.639E+01 1.502E+01 6.444E-01		
VKD042K	WNR	751101	BIRD DUCK	PINTAIL KIDNEY		1.448E+04 3.304E+02	1.095E+02 5.033E+00 6.942E+00	6.892E+00 2.946E+02 1.372E+01	4.246E+01 1.679E+01 8.034E-01		
VKD042L	WNR	751101	BIRD DUCK	PINTAIL LIVER		1.062E+04 7.019E+02	5.627E+01 4.497E+00	6.107E+00 8.081E+01 7.234E+00	1.226E+02 8.036E+00 5.833E-01		
VKD044B	WNR	751101	BIRD DUCK	PINTAIL BRAIN		2.208E+04 1.334E+02	5.595E+01 4.458E+00	3.578E+00 1.268E+02 6.252E+00	1.834E+01 1.689E+00		
VKD044L	WNR	751101	BIRD DUCK	PINTAIL LIVER		1.106E+04 2.857E+03	1.171E+02 4.918E+00	1.333E+01 1.983E+02 1.404E+01	7.165E+01 1.593E+01 9.854E-01		
VKD044U	WNR	751101	BIRD DUCK	PINTAIL LUNG		1.178E+04 1.288E+03	5.137E+01 3.674E+00	1.089E+01 5.863E+02 4.454E+01	4.055E+00 1.611E+00 8.653E-01	1.187E+00	
VKD046K	WNR	751101	BIRD DUCK	PINTAIL KIDNEY		1.059E+04 4.709E+02	8.287E+01 7.582E+00	6.54.0 2.125E+02 3.117E+01	1.085E+01 5.651E-01		
VKD046L	WNR	751101	BIRD DUCK	PINTAIL LIVER		1.026E+04 2.903E+03	1.851E+02 4.407E+00	5.735E+00 1.710E+02 2.043E+01	1.891E+02 1.823E+01 1.264E+00		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	***** SAMPLE *****		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD047K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	1.470E+04 8.233E+02	1.048E+02 1.278E+01	6.962E+00 3.042E+02 1.456E+01	4.344E+01 1.578E+01 7.596E-01	1.119E+00
VKD047L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	8.657E+03 3.066E+03	8.977E+01 7.076E+00	4.070E+00 1.943E+02 8.847E+00	4.764E+01 1.631E+01 1.353E+00	
VKD048H	HNMR	751101	BIRD DUCK	PINTAIL	HEART	1.305E+04 3.177E+02	7.962E+01 4.947E+00	3.332E+00 8.903E+01 1.312E+01	1.956E+01 1.766E+00 4.436E-01	
VKD048L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	1.050E+04 2.905E+03	1.002E+02 6.371E+00	5.973E+00 1.872E+02 1.097E+01	6.194E+01 1.171E+01 1.407E+00	
VKD048U	HNMR	751101	BIRD DUCK	PINTAIL	LUNG	1.298E+04 1.438E+03	4.547E+01 4.279E+00	4.314E+00 4.807E+02 3.173E+01	3.036E+00 2.894E+00 6.736E-01	
VKD049K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	9.895E+03 3.807E+02	8.647E+01 1.074E+01	3.599E+00 2.243E+02 5.868E+00	2.928E+01 1.240E+01	
VKD049L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	8.363E+03 1.688E+03	9.402E+01 7.335E+00	3.704E+00 5.912E+01 3.037E+00	6.285E+01 1.669E+01 7.081E-01	
VKD050K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	1.279E+04 5.501E+02	1.021E+02 1.190E+01	5.366E+00 2.707E+02 7.613E+00	3.558E+01 1.449E+01 5.478E-01	
VKD050L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	1.001E+04 2.071E+03	1.107E+02 9.944E+00	4.885E+00 1.001E+02 2.378E+00	7.680E+01 1.614E+01 8.050E-01	
VKD051K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	1.185E+04 6.402E+02	8.505E+01 1.323E+01	8.288E+00 2.444E+02 1.691E+01	3.273E+01 9.763E+00 4.755E-01	
VKD051L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	8.922E+03 1.290E+03	1.045E+02 9.393E+00	7.646E+00 1.084E+02 1.213E+01	9.601E+01 1.224E+01 4.959E-01	
VKD053K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	8.627E+03 4.981E+02	7.074E+01 2.187E+01 6.785E+01	1.262E+01 1.817E+02 1.142E+01	1.877E+01 1.181E+01 5.751E-01	4.344E+00
VKD053L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	9.637E+03 1.900E+03	1.241E+02 1.948E+01	1.374E+01 4.394E+01 7.809E+00	1.304E+02 1.195E+01 7.413E-01	
VKD057K	HNMR	751101	BIRD DUCK	PINTAIL	KIDNEY	8.933E+03 7.374E+02	7.594E+01 2.995E+00	1.035E+01 2.420E+02 2.152E+01	1.280E+01 7.051E+00 5.044E-01	

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKD057L	HNMR	751101	BIRD DUCK	PINTAIL	LIVER	8.863E+03 3.064E+03	2.303E+02 1.843E+00	1.153E+01 2.552E+02 1.833E+01	7.992E+01 1.368E+01 1.011E+00		
VKD064K	HNMR	751102	BIRD DUCK	RUDDYDUCK	KIDNEY	1.482E+04 6.124E+02	9.176E+01 4.477E+00	2.655E+01 2.647E+02 1.285E+01	1.524E+01 1.342E+01 4.858E-01		
VKD064L	HNMR	751102	BIRD DUCK	RUDDYDUCK	LIVER	1.156E+04 1.462E+03	1.320E+02 3.690E+00	4.479E+01 1.298E+02 4.854E+00	1.197E+02 2.007E+01 9.837E-01		
VKD065K	HNMR	751102	BIRD DUCK	SHOVELER	KIDNEY	1.178E+04 6.643E+02	9.398E+01 4.416E+00	8.139E+00 2.762E+02 6.238E+01	2.187E+01 9.839E+00 5.352E-01		
VKD065L	HNMR	751102	BIRD DUCK	SHOVELER	LIVER	1.154E+04 2.247E+03	2.031E+02 3.621E+00	9.696E+00 1.845E+02 4.269E+01	1.098E+02 1.431E+01 1.062E+00		
VKD066K	HNMR	751102	BIRD DUCK	PINTAIL	KIDNEY	1.504E+04 7.122E+02	1.097E+02 6.481E+00 1.679E+00	1.070E+01 2.845E+02 1.626E+01	3.340E+01 1.250E+01 5.475E-01		
VKD066L	HNMR	751102	BIRD DUCK	PINTAIL	LIVER	1.002E+04 3.301E+03	1.584E+02 4.776E+00	8.414E+00 6.536E+01 5.501E+00	1.449E+02 1.208E+01 1.266E+00		
VKD067K	HNMR	751102	BIRD DUCK	PINTAIL	KIDNEY	1.057E+04 5.609E+02	8.786E+01 1.963E+01 5.786E+00	4.471E+00 2.771E+02 1.102E+01	4.291E+01 7.837E+00 5.768E-01		
VKD067L	HNMR	751102	BIRD DUCK	PINTAIL	LIVER	1.230E+04 1.874E+03	2.367E+02 1.792E+01	4.788E+00 1.621E+02 6.526E+00	1.375E+02 1.676E+01 7.309E-01		
VKD069K	HNMR	751102	BIRD DUCK	RUDDYDUCK	KIDNEY	1.286E+04 5.929E+02	8.813E+01 5.437E+00	2.894E+01 2.646E+02 1.084E+01	1.730E+01 1.463E+01 4.704E-01		
VKD069L	HNMR	751102	BIRD DUCK	RUDDYDUCK	LIVER	1.331E+04 1.821E+03	1.593E+02 3.926E+00	7.712E+01 1.396E+02 4.209E+00	3.651E+02 2.058E+01 1.121E+00		
VKD073K	HNMR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.317E+04 4.546E+02	1.092E+02 1.749E+01 3.484E+00	9.820E+00 4.572E+02 8.957E+00	1.458E+01 1.303E+01 4.557E-01	2.993E+00	
VKD073L	HNMR	760117	BIRD DUCK	SHOVELER	LIVER	1.341E+04 5.604E+03	1.389E+02 2.066E+01	1.227E+01 3.454E+02 7.356E+00	1.258E+01 2.008E+01 2.327E+00	1.415E+00 8.233E-01	
VKD077K	HNMR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.369E+04 3.848E+02	1.014E+02 2.843E+00	1.973E+01 7.483E+02 7.814E+01	2.831E+01 1.149E+01 6.571E-01	1.441E+00	

Table IV-11. (Continued)

SAMPLE	SITE	DATE		SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKD077L	WNR	760117	BIRD DUCK	SHOVELER	LIVER	1.502E+04 9.937E+03	2.754E+02 8.246E-01	1.178E+01 2.054E+02 6.020E+01	5.742E+01 2.610E+01 3.507E+00		
VKD078K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.133E+04 4.956E+02	1.073E+02 7.672E+00 2.085E+00	1.516E+01 2.709E+02 2.409E+01	3.829E+01 1.337E+01 7.302E-01		
VKD078L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.189E+04 4.575E+03	1.740E+02 4.228E+00	1.240E+01 1.402E+02 1.193E+01	2.376E+02 2.218E+01 1.981E+00		
VKD079K	WNR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.186E+04 7.517E+02	9.630E+01 1.060E+01	8.098E+00 2.752E+02 1.400E+01	1.485E+01 1.014E+01 8.062E-01		
VKD081K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.069E+04 5.205E+02	9.674E+01 7.347E+00 2.620E+00	2.181E+01 2.352E+02 3.304E+01	2.263E+01 1.773E+01 5.051E-01	1.194E+00	
VKD081L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	9.760E+03 3.162E+03	1.243E+02 3.068E+00 8.191E+00	2.369E+01 4.254E+02 2.119E+01	7.859E+01 2.109E+01 1.341E+00	1.117E+00 1.012E+00	
VKD082K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.158E+04 5.564E+02	1.109E+02 8.865E+00	2.308E+01 1.984E+02 2.814E+01	4.225E+01 1.890E+01 8.768E-01	1.232E+00	
VKD082L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	9.437E+03 2.380E+03	1.577E+02 2.845E+00	2.548E+01 1.146E+02 1.719E+01	1.653E+02 1.709E+01 1.028E+00		
VKD084K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.229E+04 6.599E+02	9.729E+01 1.181E+01	1.184E+01 1.558E+02 1.412E+01	3.387E+01 1.099E+01 5.443E-01		
VKD084L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	9.963E+03 2.972E+03	1.368E+02 6.769E+00	9.566E+00 1.418E+02 1.227E+01	1.272E+02 1.863E+01 1.274E+00		
VKD085K	WNR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.155E+04 7.454E+02	8.995E+01 1.035E+01	1.814E+01 1.879E+02 4.671E+01	1.937E+01 1.112E+01 9.875E-01		
VKD085L	WNR	760117	BIRD DUCK	SHOVELER	LIVER	1.157E+04 7.040E+03	1.293E+02 6.814E+00	2.321E+01 1.716E+02 3.311E+01	8.869E+01 2.178E+01 2.309E+00		
VKD086K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.355E+04 6.077E+02	1.160E+02 6.391E+00 1.780E+00	2.868E+01 2.051E+02 2.604E+01	3.108E+01 1.871E+01 8.427E-01	1.499E+00	
VKD086L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.053E+04 3.822E+03	1.319E+02 2.604E+00 1.105E+00	2.308E+01 2.008E+02 2.492E+01	8.019E+01 1.887E+01 1.516E+00		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD087K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.185E+04 4.512E+02	1.075E+02 7.158E+00 1.979E+00	4.169E+01 2.174E+02 2.471E+01	3.948E+01 1.806E+01 5.754E-01	1.441E+00	
VKD087L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	1.213E+04 4.032E+03	1.439E+02 2.800E+00	3.886E+01 1.521E+02 1.994E+01	1.791E+02 1.550E+01 1.628E+00	1.544E+00	
VKD088K	WNR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.263E+04 3.048E+02	1.147E+02 1.557E+01	1.349E+01 1.505E+02 1.553E+01	2.103E+01 1.057E+01	9.294E-01	
VKD088L	WNR	760117	BIRD DUCK	SHOVELER	LIVER	1.166E+04 1.076E+04	1.438E+02 1.384E+01	2.486E+01 1.266E+02 2.025E+01	3.453E+01 2.612E+01 4.108E+00	3.371E+00	
VKD089K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.152E+04 4.874E+02	1.162E+02 6.199E+00 2.013E+01	2.678E+01 4.214E+02 9.011E+01	2.931E+01 1.984E+01 6.258E-01		
VKD089L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	8.503E+03 3.105E+03	1.330E+02 3.575E+00	3.328E+01 3.300E+02 6.197E+01	8.057E+01 2.146E+01 1.573E+00		
VKD090K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.265E+04 5.152E+02	1.003E+02 7.511E+00 1.162E+00	1.288E+01 2.299E+02 1.405E+01	2.454E+01 1.458E+01 6.339E-01		
VKD090L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	9.732E+03 1.967E+03	1.328E+02 3.072E+00	3.286E+01 8.397E+01 1.004E+01	6.272E+01 2.197E+01 8.068E-01		
VKD091K	WNR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.190E+04 5.774E+02	1.333E+02 2.263E+01	1.252E+01 2.391E+02 1.171E+01	1.925E+01 1.118E+01 5.938E-01		
VKD091L	WNR	760117	BIRD DUCK	SHOVELER	LIVER	1.087E+04 7.817E+03	1.440E+02 1.503E+01	1.975E+01 2.329E+02 8.873E+00	1.555E+01 1.871E+01 2.868E+00	1.344E+00	
VKD092K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.223E+04 4.327E+02	1.182E+02 1.176E+01	1.449E+01 7.275E+02 3.924E+01	2.649E+01 1.737E+01		
VKD092L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	8.688E+03 2.124E+03	9.732E+01 6.483E+00	1.155E+01 1.127E+02 2.317E+01	5.199E+01 1.157E+01 9.717E-01		
VKD093K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.017E+04 5.844E+02	1.385E+02 7.789E+00	1.566E+01 3.729E+02 1.472E+01	4.612E+01 1.392E+01 5.993E-01		
VKD093L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	8.572E+03 5.305E+03	2.807E+02 3.322E+00	2.361E+01 2.988E+02 7.234E+00	3.238E+01 1.835E+01 2.148E+00	9.656E-01	

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD094L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.103E+04 2.709E+03	1.426E+02 3.554E+00	6.893E+00 7.865E+01 1.346E+01	1.085E+02 1.849E+01 1.040E+00		
VKD095K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.256E+04 4.851E+02	9.439E+01 1.821E+01	1.077E+01 4.476E+02 2.900E+01	1.380E+01 1.316E+01 7.202E-01	2.652E+00	
VKD095L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	1.140E+04 2.517E+03	1.484E+02 1.076E+01	1.117E+01 2.860E+02 1.885E+01	1.328E+01 1.421E+01 1.091E+00	1.209E+00	
VKD096K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	7.842E+03 4.775E+02	6.890E+01 1.595E+01	8.320E+00 5.233E+02 4.183E+01	1.123E+01 1.309E+01 7.655E-01	5.876E+00	
VKD096L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	9.605E+03 1.878E+03	1.798E+02 1.416E+01	1.879E+01 1.235E+02 2.160E+01	2.113E+01 1.663E+01 6.731E-01	9.562E-01	
VKD097K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.131E+04 5.343E+02	1.051E+02 5.750E+00 1.538E+01	1.703E+01 3.963E+02 4.406E+01	2.507E+01 1.854E+01 6.058E-01	2.417E+00	
VKD097L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	9.664E+03 1.988E+03	1.334E+02 3.313E+00 4.194E+00	1.174E+01 5.299E+02 2.495E+01	5.322E+01 1.816E+01 1.089E+00	2.546E+00	
VKD098K	WNR	760117	BIRD DUCK	SHOVELER	KIDNEY	1.289E+04 5.401E+02	1.246E+02 1.038E+01	1.998E+01 2.809E+02 9.155E+01	3.013E+01 1.016E+01 6.944E-01	1.939E+00	
VKD098L	WNR	760117	BIRD DUCK	SHOVELER	LIVER	1.270E+04 5.085E+03	1.842E+02 7.932E+00	1.032E+01 2.305E+02 4.704E+01	1.793E+01 1.581E+01 2.020E+00	1.511E+00	
VKD100K	WNR	760117	BIRD DUCK	CINNAMONTEAL	KIDNEY	1.109E+04 4.433E+02	9.578E+01 7.340E+00 2.010E+00	9.512E+00 9.641E+01 2.119E+01	3.278E+01 1.181E+01 4.143E-01		
VKD100L	WNR	760117	BIRD DUCK	CINNAMONTEAL	LIVER	1.010E+04 2.023E+03	1.200E+02 1.130E+01	9.885E+00 6.806E+01 1.303E+01	6.570E+02 1.485E+01 1.123E+00		
VKD101K	WNR	760117	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.184E+04 4.877E+02	1.102E+02 8.888E+00	2.485E+01 2.849E+02 5.094E+01	3.173E+01 2.182E+01 5.828E-01	2.488E+00	
VKD101L	WNR	760117	BIRD DUCK	GREENWINGTEAL	LIVER	1.236E+04 3.559E+03	1.521E+02 5.214E+00	2.855E+01 3.480E+01	1.436E+02 2.278E+01 1.413E+00		
VKD102K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.179E+04 8.884E+02	1.025E+02 1.573E+01	1.925E+01 1.980E+02 1.232E+01	3.445E+01 1.480E+01 8.923E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKD102L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.164E+04 3.485E+03	1.409E+02 1.122E+01 1.125E+02	2.118E+01 9.666E+01 6.396E+00	1.085E+02 2.367E+01 1.426E+00	2.268E+00	
VKD106K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.235E+04 5.123E+02	1.048E+02 5.724E+00 2.145E+00	1.539E+01 1.347E+03 1.050E+01	2.538E+01 1.717E+01 6.211E-01	1.433E+01	
VKD106L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.066E+04 2.013E+03	2.040E+02 3.330E+00	1.608E+01 6.017E+02 5.655E+00	1.430E+02 2.220E+01 1.151E+00	2.600E+00	
VKD108K	WNR	760117	BIRD DUCK	PINTAIL	KIDNEY	1.292E+04 6.182E+02	1.009E+02 1.151E+01 4.188E+00	8.575E+00 7.171E+02 1.374E+01	2.674E+01 1.287E+01 6.952E-01	3.537E+00	
VKD108L	WNR	760117	BIRD DUCK	PINTAIL	LIVER	1.075E+04 2.480E+03	9.938E+01 3.749E+00	5.454E+00 3.299E+02 4.447E+00	7.982E+01 1.832E+01 1.074E+00		
VKD110K	WNR	760118	BIRD DUCK	GREENWINGTEAL	KIDNEY	1.214E+04 8.543E+02	8.236E+01 6.202E+00	9.385E+00 1.645E+02 2.421E+01	1.917E+01 1.202E+01 5.914E-01		
VKD110L	WNR	760118	BIRD DUCK	GREENWINGTEAL	LIVER	8.786E+03 2.584E+03	9.084E+01 4.504E+00	9.072E+00 1.124E+02 1.626E+01	3.440E+01 1.587E+01 1.133E+00		
VKD111K	WNR	760118	BIRD DUCK	SHOVELER	KIDNEY	1.372E+04 5.195E+02	9.751E+01 1.522E+01	9.808E+00 2.884E+02 1.723E+01	2.169E+01 1.280E+01 6.947E-01		
VKD111L	WNR	760118	BIRD DUCK	SHOVELER	LIVER	1.184E+04 6.752E+03	1.153E+02 1.085E+01 1.972E+00	1.078E+01 2.137E+02 6.901E+00	2.763E+01 1.644E+01 2.686E+00	1.013E+00	
VKD112K	WNR	760118	BIRD DUCK	SHOVELER	KIDNEY	1.350E+04 6.393E+02	9.783E+01 2.510E+01	8.999E+00 2.798E+02 8.832E+00	1.470E+01 1.156E+01 6.982E-01		
VKD112L	WNR	760118	BIRD DUCK	SHOVELER	LIVER	1.118E+04 4.120E+03	1.116E+02 2.091E+01	1.413E+01 1.662E+02 8.953E+00	1.433E+01 1.365E+01 1.893E+00	1.311E+00	
VKD114K	WNR	760118	BIRD DUCK	PINTAIL	KIDNEY	1.241E+04 5.787E+02	1.026E+02 6.033E+00	1.355E+01 2.547E+02 1.240E+01	2.766E+01 1.321E+01 6.091E-01		
VKD114L	WNR	760118	BIRD DUCK	PINTAIL	LIVER	1.033E+04 2.949E+03	1.144E+02 2.761E+00	1.480E+01 1.475E+02 6.007E+00	5.923E+02 1.500E+01 1.370E+00		
VKD115K	WNR	760118	BIRD DUCK	SHOVELER	KIDNEY	1.294E+04 5.689E+02	1.555E+02 1.451E+01 2.175E+01	1.527E+01 2.682E+02 2.617E+01	3.121E+01 1.091E+01 7.322E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD115L	WNHR	760118	BIRD DUCK	SHOVELER	LIVER	1.354E+04 7.014E+03 5.912E+00	1.780E+02 1.319E+01 1.328E+01	1.946E+01 1.556E+02 1.328E+01	6.226E+01 2.187E+01 2.527E+00		
VKD116K	WNHR	760118	BIRD DUCK	SHOVELER	KIDNEY	1.481E+04 5.309E+02	1.283E+02 3.126E+01	8.335E+00 2.415E+02 1.241E+01	2.104E+01 1.284E+01 6.621E-01	1.077E+00	
VKD116L	WNHR	760118	BIRD DUCK	SHOVELER	LIVER	1.438E+04 1.149E+04	1.174E+02 2.458E+01	1.009E+01 1.952E+02 6.266E+00	1.283E+01 2.104E+01 4.344E+00	2.016E+00	
VKD118B	WNHR	760118	BIRD DUCK	PINTAIL	BRAIN	1.903E+04 9.412E+01	4.647E+01 2.321E+00	4.492E+00 1.129E+02 1.031E+00	9.900E+00 1.994E+00		
VKD118K	WNHR	760118	BIRD DUCK	PINTAIL	KIDNEY	1.063E+04 6.532E+02 9.274E-01	8.140E+01 4.824E+00 8.713E+00	2.187E+01 1.870E+02 4.855E-01	2.299E+01 1.341E+01		
VKD118L	WNHR	760118	BIRD DUCK	PINTAIL	LIVER	9.757E+03 5.321E+03	1.230E+02 1.950E+00	2.381E+01 1.785E+02 6.324E+00	1.141E+02 1.535E+01 2.096E+00		
VKD118U	WNHR	760118	BIRD DUCK	PINTAIL	LUNG	1.154E+04 1.558E+03	3.325E+01 2.448E+00	1.159E+01 5.178E+02 1.440E+01	2.930E+00 2.228E+00 7.359E-01	1.249E+00	
VKD119H	WNHR	760118	BIRD DUCK	PINTAIL	HEART	1.118E+04 2.479E+02	7.692E+01 6.618E+00	1.398E+00 3.783E+01 8.219E+00	1.783E+01 1.614E+00		
VKD119K	WNHR	760118	BIRD DUCK	PINTAIL	KIDNEY	1.272E+04 4.069E+02 2.923E+00	1.185E+02 1.553E+01 1.470E+01	8.637E+00 1.994E+02 5.718E-01	4.080E+01 1.433E+01		
VKD119L	WNHR	760118	BIRD DUCK	PINTAIL	LIVER	9.859E+03 4.364E+03 1.026E+00	1.590E+02 6.126E+00 6.640E+00	6.267E+00 1.374E+02 1.949E+00	1.698E+02 1.608E+01		
VKD119U	WNHR	760118	BIRD DUCK	PINTAIL	LUNG	1.089E+04 1.253E+03	4.448E+01 5.837E+00	1.761E+00 6.284E+02 2.787E+01	4.229E+00 2.596E+00 5.859E-01		
VKD120K	WNHR	760118	BIRD DUCK	RUDDYDUCK	KIDNEY	1.442E+04 7.854E+02 4.031E+02	8.295E+01 1.825E+00 9.551E+00	1.613E+02 7.532E+02 1.011E+00	1.901E+01 2.187E+01	4.723E+00	
VKD120L	WNHR	760118	BIRD DUCK	RUDDYDUCK	LIVER	1.381E+04 2.555E+03 2.078E+01	1.216E+02 1.952E+00 4.512E+00	4.545E+01 1.673E+02 1.171E+00	5.530E+01 1.687E+01		
VKD121K	WNHR	760118	BIRD DUCK	RUDDYDUCK	KIDNEY	1.128E+04 8.297E+02 8.880E+02	9.090E+01 1.180E+00 1.096E+01	2.965E+02 3.490E+02 1.595E+00	1.783E+01 1.518E+01	1.194E+01	

Table IV-11. (Continued)

SAMPLE	SITE	DATE		SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD121L	HNMR	760118	BIRD DUCK	RUDDYDUCK	LIVER	9.031E+03 6.153E+03	1.668E+02 9.779E+01	4.649E+01 2.481E+02 5.854E+00	8.908E+01 2.276E+01 2.431E+00	1.391E+00	
VKD122K	HNMR	760118	BIRD DUCK	RUDDYDUCK	KIDNEY	1.407E+04 5.955E+02	9.595E+01 4.662E+00 3.044E+00	2.323E+01 2.160E+02 9.021E+00	1.819E+01 1.230E+01 6.509E-01		
VKD122L	HNMR	760118	BIRD DUCK	RUDDYDUCK	LIVER	1.384E+04 1.923E+03	1.226E+02 3.910E+00	3.781E+01 1.116E+02 2.872E+00	6.890E+01 2.071E+01 8.982E-01		
VKD123K	HNMR	760118	BIRD DUCK	RUDDYDUCK	KIDNEY	1.378E+04 4.440E+02	9.073E+01 3.845E+00 7.025E+01	9.971E+01 5.804E+02 8.300E+00	1.520E+01 1.786E+01 5.888E-01	1.252E+00	
VKD123L	HNMR	760118	BIRD DUCK	RUDDYDUCK	LIVER	1.198E+04 6.087E+02	1.308E+02 3.442E+00	1.439E+02 8.390E+01 2.329E+00	1.236E+02 1.769E+01 4.974E-01		
VKD124B	HNMR	760118	BIRD DUCK	PINTAIL	BRAIN	1.851E+04 1.128E+02	4.471E+01 1.532E+00	4.537E+00 1.492E+02 2.097E+00	1.845E+01 1.738E+00		
VKD124H	HNMR	760118	BIRD DUCK	PINTAIL	HEART	1.162E+04 2.982E+02	6.394E+01 2.207E+00	5.648E+00 6.597E+01 7.579E+00	1.458E+01 2.010E+00		
VKD124K	HNMR	760118	BIRD DUCK	PINTAIL	KIDNEY	1.366E+04 6.473E+02	1.117E+02 4.698E+00 4.319E+00	1.655E+01 2.350E+02 1.299E+01	3.498E+01 1.466E+01 6.627E-01		
VKD124L	HNMR	760118	BIRD DUCK	PINTAIL	LIVER	1.180E+04 4.256E+03	1.546E+02 2.554E+00 1.970E+00	1.691E+01 1.756E+02 7.988E+00	6.131E+01 1.836E+01 1.726E+00		
VKD124U	HNMR	760118	BIRD DUCK	PINTAIL	LUNG	1.489E+04 1.354E+03	4.835E+01 2.726E+00	1.097E+01 7.256E+02 1.919E+01	3.048E+00 3.260E+00 8.052E-01		
VKD514B	SNMR	751122	BIRD DUCK	PINTAIL	BRAIN	1.993E+04 9.292E+01	4.918E+01 5.188E+00	5.658E-01 1.563E+02 5.126E+00	1.823E+01 1.623E+00		
VKD514K	SNMR	751122	BIRD DUCK	PINTAIL	KIDNEY	9.736E+03 5.913E+02	9.023E+01 8.317E+00 3.356E+00	3.655E+00 1.804E+02 2.125E+01	4.478E+01 1.407E+01 6.228E-01		
VKD514L	SNMR	751122	BIRD DUCK	PINTAIL	LIVER	1.240E+04 3.827E+03	2.742E+02 8.049E+00 2.506E+00	2.507E+00 2.892E+02 1.759E+01	6.955E+01 3.516E+01 2.172E+00		
VKD514U	SNMR	751122	BIRD DUCK	PINTAIL	LUNG	1.195E+04 2.007E+03	3.468E+01 6.028E+00	1.487E+00 3.930E+02 3.803E+01	5.783E+00 8.430E+01 1.789E+00	1.043E+00	

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKD520B	SNMR	751122	BIRD DUCK	PINTAIL	BRAIN	1.808E+04 7.215E+01	4.641E+01 6.291E+00 4.799E+00	1.569E+00 8.384E+01 5.871E+00	1.166E+01 1.595E+00		
VKD520H	SNMR	751122	BIRD DUCK	PINTAIL	HEART	1.104E+04 1.989E+02	6.128E+01 7.815E+00 1.606E+00	1.523E+00 3.121E+01 1.725E+01	1.572E+01 1.554E+00		
VKD520K	SNMR	751122	BIRD DUCK	PINTAIL	KIDNEY	1.220E+04 4.301E+02	9.562E+01 1.510E+01 6.020E+01	1.080E+01 2.206E+02 2.242E+01	3.274E+01 1.223E+01 6.314E-01		
VKD520L	SNMR	751122	BIRD DUCK	PINTAIL	LIVER	9.653E+03 3.485E+03 4.459E+01	1.945E+02 7.699E+00 1.195E+01	4.673E+00 7.956E+01 1.608E+00	1.346E+02 1.867E+01		
VKD520U	SNMR	751122	BIRD DUCK	PINTAIL	LUNG	1.234E+04 8.902E+02	5.475E+01 8.245E+00 1.132E+01	2.174E+00 3.730E+02 4.547E+01	4.793E+00 3.209E+00 8.385E-01		
VKG071K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.551E+04 7.315E+02	1.113E+02 9.217E-01	4.443E+00 3.892E+02 6.862E+00	1.508E+01 1.096E+01 6.701E-01	9.977E-01	
VKG071L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	1.444E+04 2.134E+03	1.239E+02 1.020E+00	5.099E+00 1.581E+02 3.175E+00	6.142E+01 1.193E+01 1.124E+00		
VKG075K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.371E+04 1.318E+03	9.230E+01 2.520E+00	4.263E+00 3.778E+02 7.454E+00	1.672E+01 1.029E+01 9.017E-01		
VKG075L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	9.186E+03 2.861E+03	1.266E+02	4.220E+00 1.465E+02 2.793E+00	5.149E+01 7.851E+00 1.526E+00		
VKG076K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.302E+04 8.728E+02	1.175E+02 4.041E+00	5.099E+00 3.295E+02 1.016E+01	2.912E+01 9.405E+00 4.959E-01		
VKG076L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	6.865E+03 2.632E+03	9.215E+01 1.381E+00	4.188E+00 1.117E+02 2.872E+00	2.913E+01 7.823E+00 9.003E-01		
VKG080K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.335E+04 7.949E+02	8.369E+01 3.546E+00	5.067E+00 3.037E+02 6.508E+00	1.408E+01 1.363E+01 6.816E-01	9.288E-01	
VKG080L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	8.324E+03 2.021E+03	9.591E+01 1.059E+00	3.914E+00 1.838E+02 2.429E+00	9.659E+01 9.740E+00 9.148E-01		
VKG083K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.578E+04 8.307E+02	9.598E+01 3.858E+00	3.641E+00 3.137E+02 9.488E+00	1.305E+01 6.004E+00 5.565E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKG083L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	1.004E+04 1.840E+03	8.508E+01 2.065E+00	2.637E+00 5.115E+01 2.075E+00	4.476E+01 9.852E+00 9.753E-01		
VKG099B	HNMR	760117	BIRD GOOSE	SNOWGOOSE	BRAIN	1.980E+04 1.028E+02	4.276E+01	1.563E+00 1.776E+02	9.924E+00		
VKG099K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.235E+04 6.307E+02	1.808E+02 2.877E+00	4.826E+00 2.135E+02 8.101E+00	2.054E+01 7.148E+00 5.809E-01		
VKG099L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	1.128E+04 5.398E+03	1.034E+02 1.028E+01	1.105E+01 1.846E+02 1.209E+01	1.630E+01 1.293E+01 2.103E+00		
VKG099U	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LUNG	1.156E+04 1.736E+03	3.506E+01 1.051E+00	1.778E+00 6.080E+02 1.138E+01	2.251E+00 2.649E+00 8.611E-01		
VKG103K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.457E+04 6.762E+02	8.597E+01 3.850E+00	3.554E+00 3.378E+02 6.523E+00	1.872E+01 9.166E+00 9.376E-01	2.692E+00	
VKG103L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	1.103E+04 2.551E+03	1.330E+02 2.889E+00	6.825E+00 1.486E+02 3.713E+00	5.957E+01 1.181E+01 9.853E-01		
VKG103U	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LUNG	1.198E+04 1.807E+03	3.627E+01 1.363E+00	1.723E+00 4.767E+02 1.184E+01	2.674E+00 1.890E+00 7.501E-01		
VKG104B	HNMR	760117	BIRD GOOSE	SNOWGOOSE	BRAIN	2.030E+04 7.584E+01	4.606E+01	1.258E+00 9.758E+01 7.437E-01	1.283E+01		
VKG104K	HNMR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.487E+04 5.584E+02	9.320E+01 2.743E+00 1.956E+00	4.042E+00 2.108E+02 6.861E+00	1.892E+01 8.792E+00 5.711E-01		
VKG104L	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	8.966E+03 6.143E+02	7.401E+01 1.552E+00	2.251E+00 5.937E+01 2.512E+00	1.935E+01 6.658E+00 6.568E-01		
VKG104U	HNMR	760117	BIRD GOOSE	SNOWGOOSE	LUNG	1.278E+04 1.531E+03	4.121E+01 8.025E-01	1.275E+00 3.695E+02 1.144E+01	2.875E+00 6.817E-01		
VKG105B	HNMR	760117	BIRD GOOSE	SNOWGOOSE	BRAIN	1.855E+04 8.589E+01	4.314E+01 8.995E-01	1.299E+00 1.766E+02	7.829E+00 1.996E+00		
VKG105H	HNMR	760117	BIRD GOOSE	SNOWGOOSE	HEART	1.345E+04 3.799E+02	9.632E+01 1.591E+00	2.054E+00 1.330E+02 6.763E+00	1.980E+01 1.994E+00 5.130E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKG105K	WNR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.416E+04 8.967E+02	1.175E+02 1.873E+00	4.549E+00 2.241E+02 1.022E+01	2.209E+01 1.038E+01 6.011E-01		
VKG105L	WNR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	1.247E+04 1.794E+03	1.630E+02 1.935E+00	4.836E+00 1.566E+02 3.612E+00	1.013E+02 8.740E+00 6.968E-01		
VKG105U	WNR	760117	BIRD GOOSE	SNOWGOOSE	LUNG	1.169E+04 2.005E+03	3.033E+01 1.145E+00 1.216E+00	1.221E+00 4.286E+02 9.752E+00	2.228E+00 3.430E+00 1.043E+00		
VKG107K	WNR	760117	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.344E+04 7.423E+02	1.102E+02 3.666E+00 5.211E+00	4.897E+00 1.862E+02 8.731E+00	2.176E+01 1.040E+01 6.016E-01		
VKG107L	WNR	760117	BIRD GOOSE	SNOWGOOSE	LIVER	9.784E+03 2.540E+03	1.517E+02 2.430E+00	6.184E+00 9.206E+01 3.433E+00	8.245E+01 1.686E+01 1.169E+00		
VKG109K	WNR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.538E+04 5.267E+02	1.248E+02 2.982E+00 1.700E+01	5.393E+00 2.560E+02 8.091E+00	4.200E+01 1.140E+01		
VKG109L	WNR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.164E+04 1.948E+03	1.296E+02 1.884E+00 4.411E+00	4.883E+00 6.152E+01 2.014E+00	8.553E+01 1.146E+01 1.071E+00		
VKG113K	WNR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.615E+04 7.615E+02	9.558E+01 2.968E+00	4.358E+00 3.494E+02 7.787E+00	1.656E+01 1.039E+01 5.952E-01		
VKG113L	WNR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	8.672E+03 1.640E+03	1.146E+02 1.703E+00	4.712E+00 1.286E+02 2.881E+00	5.304E+01 7.233E+00 7.067E-01		
VKG117K	WNR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.440E+04 8.928E+02	1.818E+02 2.405E+00 1.094E+00	6.273E+00 3.192E+02 9.394E+00	2.939E+01 1.234E+01 5.429E-01	1.011E+00	
VKG117L	WNR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.082E+04 2.114E+03	1.955E+02 1.677E+00	5.021E+00 1.291E+02 2.795E+00	9.320E+01 6.572E+00 6.936E-01		
VKG126K	WNR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.870E+04 4.887E+02	1.094E+02 2.649E+00	4.660E+00 4.273E+02 7.906E+00	2.300E+01 8.258E+00		
VKG126L	WNR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.412E+04 2.151E+03	1.825E+02 2.647E+00	6.935E+00 2.475E+02 3.833E+00	8.919E+01 9.716E+00 1.024E+00		
VKG127K	WNR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.568E+04 7.436E+02	1.210E+02 8.278E-01	4.625E+00 4.235E+02 8.300E+00	3.049E+01 8.848E+00 7.626E-01	1.047E+00	

Table IV-11. (Continued)

SAMPLE	SITE	DATE	*****	SAMPLE	*****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKG127L	HNMR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.394E+04 3.174E+03	1.495E+02 8.952E-01	4.522E+00 2.120E+02 2.352E+00	6.756E+01 1.351E+01 1.470E+00		
VKG128K	HNMR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.597E+04 8.690E+02	9.597E+01 2.523E+00	4.234E+00 4.240E+02 1.164E+01	2.666E+01 9.425E+00 7.375E-01		
VKG128L	HNMR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.125E+04 1.533E+03	1.250E+02 1.126E+00	4.228E+00 1.960E+02 4.488E+00	9.213E+01 8.273E+00 7.613E-01		
VKG129K	HNMR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.590E+04 6.706E+02	1.045E+02 3.378E+00	5.514E+00 3.102E+02 1.030E+01	1.836E+01 1.106E+01 6.216E-01		
VKG129L	HNMR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.102E+04 2.154E+03	1.138E+02 1.762E+00	5.535E+00 1.399E+02 3.958E+00	6.590E+01 9.297E+00 9.620E-01		
VKG130K	HNMR	760118	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.478E+04 6.420E+02	1.024E+02 1.308E+00	4.420E+00 3.442E+02 7.762E+00	2.008E+01 8.576E+00 4.921E-01		
VKG130L	HNMR	760118	BIRD GOOSE	SNOWGOOSE	LIVER	1.361E+04 3.862E+03	1.296E+02	4.903E+00 4.326E+02 3.592E+00	6.084E+01 1.515E+01 1.794E+00		
VKG140B	IV	760215	BIRD GOOSE	CANADAGOOSE	BRAIN	1.790E+04 1.469E+02	4.865E+01 1.073E+00	9.252E-01 3.341E+02 2.972E+00	1.617E+01		
VKG140K	IV	760215	BIRD GOOSE	CANADAGOOSE	KIDNEY	1.181E+04 5.973E+02	8.616E+01 1.329E+00	4.596E+00 1.717E+02 6.751E+00	1.229E+01 8.742E+00		
VKG144B	IV	760215	BIRD GOOSE	CANADAGOOSE	BRAIN	1.801E+04 9.885E+00	4.710E+01	6.253E-01 1.217E+02 1.764E+00	7.716E+00 1.433E+00		
VKG144K	IV	760215	BIRD GOOSE	CANADAGOOSE	KIDNEY	9.294E+03 5.567E+02	6.400E+01 1.184E+00	3.521E+00 1.708E+02 6.114E+00	9.949E+00 7.988E+00		
VKG145B	IV	760215	BIRD GOOSE	CANADAGOOSE	BRAIN	1.741E+04 1.189E+02	4.602E+01	7.749E-01 2.089E+02 2.107E+00	1.285E+01		
VKG145K	IV	760215	BIRD GOOSE	CANADAGOOSE	KIDNEY	8.472E+03 3.336E+02	7.888E+01 1.783E+00	3.591E+00 1.446E+02 5.126E+00	1.356E+01 1.126E+01		
VKG501B	SNMR	751122	BIRD GOOSE	SNOWGOOSE	BRAIN	2.182E+04 8.202E+01	5.066E+01 5.807E+00	1.152E+00 2.256E+02 1.028E+01	1.736E+01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE		SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VK0501L	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LIVER	1.142E+04 2.720E+03	2.123E+02 8.654E+00	5.618E+00 1.658E+02 3.011E+01	1.867E+02 1.941E+01 1.293E+00		
VK0501U	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LUNG	1.124E+04 1.631E+03 7.332E+00	3.971E+01 8.203E+00 6.729E+01	1.733E+00 3.768E+02 8.930E-01	3.227E+00 1.830E+00 8.930E-01		
VK0523B	SNMR	751122	BIRD GOOSE	SNOWGOOSE	BRAIN	2.155E+04 1.365E+02	5.282E+01 5.487E+00	1.098E+02 3.892E+00	1.325E+01 1.538E+00	1.217E+00	
VK0523K	SNMR	751122	BIRD GOOSE	SNOWGOOSE	KIDNEY	1.065E+04 9.604E+02	7.327E+01 7.427E+00	9.870E-01 1.497E+02 1.987E+01	1.247E+01 6.008E+00 5.588E-01		
VK0523L	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LIVER	8.306E+03 1.158E+03	1.968E+02 6.489E+00	1.554E+00 2.411E+02 2.13E+01	1.231E+02 1.653E+01 8.001E-01		
VK0523U	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LUNG	8.663E+03 1.246E+03	2.807E+01 4.598E+00	2.776E+02 1.722E+01	1.843E+00 2.725E+00 6.603E-01		
VK0533B	SNMR	751122	BIRD GOOSE	SNOWGOOSE	BRAIN	2.292E+04 1.520E+02	5.048E+01 5.354E+00	2.008E+00 1.127E+03 5.802E+00	1.474E+01 2.263E+00		
VK0533L	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LIVER	1.052E+04 2.013E+03	1.630E+02 7.466E+00	6.040E+00 1.764E+02 1.512E+01	1.794E+02 1.443E+01 1.070E+00		
VK0533U	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LUNG	1.228E+04 1.686E+03	4.209E+01 6.118E+00	2.266E+00 3.898E+02 3.282E+01	2.489E+00 3.991E+00 8.707E-01		
VK0534K	SNMR	751122	BIRD GOOSE	SNOWGOOSE	KIDNEY	7.684E+03 9.662E+02	6.771E+01 9.929E+00 1.427E+02	6.588E+00 1.955E+02 2.113E+01	1.621E+01 7.441E+00 8.878E-01		
VK0534L	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LIVER	8.946E+03 4.994E+03	1.101E+02 8.659E+00 5.887E+01	7.470E+00 1.132E+02 1.619E+01	5.487E+01 1.377E+01 1.787E+00		
VK0534U	SNMR	751122	BIRD GOOSE	SNOWGOOSE	LUNG	1.437E+04 1.099E+03 2.793E+01	5.880E+01 8.191E+00 6.128E+01	3.222E+00 5.650E+02 5.680E-01	3.875E+00 3.070E+00		
VKL141B	IV	760216	BIRD PHEASANT		BRAIN	1.678E+04 1.291E+02	4.872E+01 2.232E+00 1.280E+01	6.016E+00 1.616E+02 3.097E+00	2.134E+01 4.628E-01		
VKL141K	IV	760216	BIRD PHEASANT		KIDNEY	9.578E+03 8.289E+02	5.965E+01 2.794E+00 1.094E+01	3.702E+00 2.365E+02 5.739E+00	1.027E+01 5.418E+00 5.491E-01		

Table IV-11. (Continued)

SAMPLE	SITE	DATE	SAMPLE		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKL141M	IV	760216	BIRD PHEASANT	MUSCLE	1.918E+04 7.497E+01	9.715E+01 2.022E+00	1.512E+00 3.282E+03 1.158E+00	3.866E+00	5.732E+00	
VKL141U	IV	760216	BIRD PHEASANT	LUNG	1.332E+04 1.551E+03	3.837E+01 2.844E+00 2.934E+00	1.237E+00 3.559E+02 8.716E+00	3.117E+00 4.339E+00 9.435E-01		
VKL142K	IV	760216	BIRD PHEASANT	KIDNEY	1.204E+04 3.810E+02	8.376E+01 9.475E+00 4.581E+00	4.090E+00 1.875E+02 7.040E+00	1.617E+01 1.136E+01		
VKL142L	IV	760216	BIRD PHEASANT	LIVER	1.106E+04 8.030E+02	1.065E+02 9.502E+00	2.015E+00 4.608E+01 4.894E+00	1.733E+01 1.014E+01 6.466E-01		
VKL143K	IV	760216	BIRD PHEASANT	KIDNEY	9.890E+03 6.704E+02	7.092E+01 1.048E+00	2.944E+00 5.542E+02 6.492E+00	1.089E+01 5.285E+00 6.641E-01		
VKL143L	IV	760216	BIRD PHEASANT	LIVER	1.078E+04 4.039E+02	8.694E+01 1.971E+00	2.380E+00 2.986E+00	1.582E+01 7.535E+00		
VKL147L	HNHR	760215	BIRD HERON	GREATBLUE	1.305E+04 2.913E+03	1.524E+02 1.173E+01	1.125E+01 2.325E+02 1.112E+01	2.227E+01 1.802E+01 1.619E+00	1.159E+00	
VKL154K	IV	760213	BIRD	SPARROWHAWK	KIDNEY	2.244E+03 3.897E+02	8.728E+01 3.420E+00	5.008E+01		
VKL154L	IV	760213	BIRD	SPARROWHAWK	LIVER	8.205E+03 1.539E+03	7.967E+01 3.873E+00	4.170E+00 2.358E+02 4.235E+00	2.379E+01	1.783E+00
VKL154M	IV	760213	BIRD	SPARROWHAWK	MUSCLE	1.048E+04 7.705E+01	8.596E+01 3.080E+00 2.191E+00	1.172E+00 3.820E+02 3.271E+00	1.895E+01 4.874E-01	
VKL155K	IV	760203	BIRD	SPARROWHAWK	KIDNEY	5.390E+03 3.107E+02	6.690E+01 5.475E+00	2.635E+00 1.022E+01	3.369E+01	
VKL155L	IV	760203	BIRD	SPARROWHAWK	LIVER	1.205E+04 4.387E+02	7.105E+01 2.187E+00	3.589E+00 1.892E+03 4.722E+00	1.498E+01 6.977E+00	
VKL155M	IV	760203	BIRD	SPARROWHAWK	MUSCLE	1.107E+04 8.162E+01	8.829E+01 3.017E+00 2.384E+00	8.761E-01 6.758E+02 5.873E+00	1.848E+01 6.611E-01	
VKL156K	IV	760213	BIRD	SPARROWHAWK	KIDNEY	7.292E+03 6.614E+02	1.004E+02 2.204E+00 9.343E+01	2.884E+00 7.078E+00	3.835E+01	4.015E+00

Table IV-11. (Continued)

SAMPLE	SITE	DATE	***** SAMPLE *****	K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CD CL MO
VKL156L	IV	760213	BIRD SPARROWHAWK LIVER	7.188E+03 3.202E+02	9.460E+01 2.247E+00	2.703E+00 3.429E+00	2.602E+01	1.736E+00	
VKL156M	IV	760213	BIRD SPARROWHAWK MUSCLE	1.319E+04 1.154E+02	1.069E+02 1.390E+00 6.876E+01	1.413E+00 1.061E+03 3.926E+00	1.637E+01 2.314E+00 9.511E-01		
VKL157K	IV	760213	BIRD SPARROWHAWK KIDNEY	9.813E+03 4.580E+02	9.540E+01 6.700E+00	7.700E+00 7.470E+02 9.800E+00	2.230E+01	4.900E+00	
VKL157L	IV	760213	BIRD SPARROWHAWK LIVER	9.536E+03 6.990E+02	1.030E+02 4.800E+00	5.800E+00 5.790E+02 5.500E+00	2.620E+01 1.250E+01	2.400E+00	
VKL158K	IV	760213	BIRD SPARROWHAWK KIDNEY	5.328E+03 4.220E+02	8.030E+01 7.200E+00	5.300E+00 6.340E+02 9.800E+00	1.130E+01	5.900E+00	
VKL158L	IV	760213	BIRD SPARROWHAWK LIVER	1.213E+04 4.179E+02	9.882E+01 4.164E+00	4.992E+00 7.218E+02 6.167E+00	2.004E+01 1.353E+01 6.029E-01	1.293E+00	
VKL158M	IV	760213	BIRD SPARROWHAWK MUSCLE	1.316E+04 1.019E+02	1.027E+02 4.456E+00 6.972E+01	1.148E+00 5.688E+02 6.189E+00	1.462E+01 3.131E+00 5.155E-01		
VKL159K	IV	760213	BIRD SPARROWHAWK KIDNEY	2.481E+03 3.522E+02	6.089E+01 4.276E+00 3.775E+01	4.179E+00 2.539E+02 7.390E+00	2.868E+01	8.327E+00	
VKL159L	IV	760213	BIRD SPARROWHAWK LIVER	9.637E+03 7.050E+02	8.130E+01 4.600E+00	5.200E+00 1.354E+03 4.600E+00	2.580E+01 7.500E+00	5.700E+00	
VKL159M	IV	760213	BIRD SPARROWHAWK MUSCLE	1.381E+04 8.357E+01	1.144E+02 3.214E+00	8.949E-01 4.972E+02 4.220E+00	1.435E+01		
VKL160K	IV	760214	BIRD ROADRUNNE KIDNEY	8.038E+03 3.426E+02	8.048E+01 5.547E+00	6.587E+00 1.064E+01	2.684E+01		
VKL160L	IV	60214	BIRD ROADRUNNE LIVER	1.128E+04 6.501E+02	1.164E+02 4.259E+00	1.120E+01 2.086E+02 6.358E+00	1.821E+01 1.826E+01 5.157E-01		
VKL161L	IV	760214	BIRD ROADRUNNE LIVER	1.313E+04 4.031E+02	1.284E+02 4.579E+00	9.023E+00 1.497E+02 4.316E+00	2.110E+01 1.688E+01		
VKL162K	IV	760214	BIRD ROADRUNNE KIDNEY	1.059E+04 5.740E+02	7.640E+01 5.700E+00	8.500E+00 5.430E+02 1.180E+01	2.380E+01		

Table IV-11. (Concluded)

SAMPLE	SITE	DATE	***** SAMPLE *****		K FE NA	ZN RB PB	SE CA BR	CU MN NI	AS SR ZR	CO CL MO
VKL162L	IV	760214	BIRD ROADRUNNE	LIVER	1.169E+04 9.480E+02	1.656E+02 1.396E+00	5.739E+00 1.113E+02 3.805E+00	2.107E+01 1.735E+01 6.204E-01		
VKL164K	IV	760301	BIRD ROADRUNNE	KIDNEY	1.000E+04 4.456E+02 9.565E+00	7.111E+01 4.379E+00 1.202E+01	5.428E+00	2.232E+01		
VKL164L	IV	760301	BIRD ROADRUNNE	LIVER	1.244E+04 9.069E+02	8.926E+01 3.592E+00	3.975E+00 1.871E+02 6.599E+00	1.502E+01 1.165E+01 6.522E-01		
VKL165K	IV	760305	BIRD ROADRUNNE	KIDNEY	7.872E+03 3.463E+02	6.961E+01 6.285E+00	7.933E+00	2.021E+01		
VKL165L	IV	760305	BIRD ROADRUNNE	LIVER	1.053E+04 1.142E+03	1.042E+02 4.637E+00	9.417E+00 3.179E+02 9.192E+00	2.140E+01 1.645E+01 6.583E-01	1.285E+00	

C

C

ECOSYSTEM QUALITY

SHORELINE HABITATS

Contractor: Philip Leitner
Department of Biology
Saint Mary's College of California
Moraga, California 94575

Commercial: (415) 376-4411 Ext. 365

Several measurements of noise, including its frequency distribution, have been made in wildlife areas near geothermal development sites. These noise measurements are listed in Table IV-12. Included with the results are measurements of various meteorological parameters which are relevant to noise propagation.

IV-98

Table IV-12. Noise measurements made in Imperial Valley by the shorebird habitat group. All sound pressure levels are in dB units, and frequency data are in Hz.

MSMC001 LOCATION: DAVIS AND BEACH RDS.
DATE: 761006
TIME: 1550

LATITUDE : N3315.81
LONGITUDE : W11534.73
TOWN/RANGE: 10S13E26R

METEOROLOGIC DATA-	TEMPERATURE	33.	DEG. C
	HUMIDITY	36.	%
	WIND SPEED	4.	MILES/HOUR
	WIND ANGLE	290.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	39.
44-88	39.
88-177	33.
177-355	32.
355-710	31.
710-1420	32.
1420-2840	32.
2840-5680	32.
5680-11360	31.
11360-22720	31.
22720-45440	31.

NOISE-DBA	28.
NOISE-LIN	44.

MSMC002 LOCATION: DAVIS ROAD
DATE: 761006
TIME: 1630

LATITUDE : N3314.96
LONGITUDE : W11534.730
TOWN/RANGE: 10S13E35R

METEOROLOGIC DATA-	TEMPERATURE	35.	DEG. C
	HUMIDITY	28.	%
	WIND SPEED	4.	MILES/HOUR
	WIND ANGLE	280.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	39.
44-88	36.
88-177	32.
177-355	32.
355-710	32.
710-1420	32.
1420-2840	32.
2840-5680	31.
5680-11360	31.
11360-22720	31.
22720-45440	31.

NOISE-DBA	27.
NOISE-LIN	42.

Table IV-12. (Continued)

MSMC003 LOCATION: DAVIS AND NOFFSINGER
 DATE: 761006
 TIME: 1650

LATITUDE : N3314.08
 LONGITUDE : W11534.73
 TOWN/RANGE: 11S13E02R

METEOROLOGIC DATA-	TEMPERATURE	35.	DEG. C
	HUMIDITY	28.	%
	WIND SPEED	3.	MILES/HOUR
	WIND ANGLE	220.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	40.
44-88	37.
88-177	33.
177-355	32.
355-710	31.
710-1420	32.
1420-2840	32.
2840-5680	32.
5680-11360	31.
11360-22720	31.
22720-45440	30.
NOISE-DBA	29.
NOISE-LIN	45.

MSMC004 LOCATION: GARST RD-ALAMO RIVER
 DATE: 761007
 TIME: 0920

LATITUDE : N3311.84
 LONGITUDE : W11535.77
 TOWN/RANGE: 11S13E23M

METEOROLOGIC DATA-	TEMPERATURE	29.	DEG. C
	HUMIDITY	38.	%
	WIND SPEED	12.	MILES/HOUR
	WIND ANGLE	340.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	53.
44-88	66.
88-177	65.
177-355	50.
355-710	38.
710-1420	39.
1420-2840	38.
2840-5680	35.
5680-11360	31.
11360-22720	31.
22720-45440	31.
NOISE-DBA	50.
NOISE-LIN	67.

Table IV-12. (Continued)

MSMC009 LOCATION: HALF MILE W GARST RD
DATE: 761007
TIME: 1410

LATITUDE : N3311.03
LONGITUDE : W11536.29
TOWN/RANGE: 11S13E27G

METEOROLOGIC DATA-	TEMPERATURE	33.	DEG. C
	HUMIDITY	44.	%
	WIND SPEED	10.	MILES/HOUR
	WIND ANGLE	300.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND (HERTZ)	DB LEVEL (DB)
22-44	48.
44-88	47.
88-177	49.
177-355	38.
355-710	34.
710-1420	33.
1420-2840	33.
2840-5680	32.
5680-11360	31.
11360-22720	31.
22720-45440	31.
NOISE-DBA	38.
NOISE-LIN	59.

MSMC010 LOCATION: HALF MILE N SINCLAIR
DATE: 761007
TIME: 1450

LATITUDE : N3311.03
LONGITUDE : W11537.33
TOWN/RANGE: 11S13E28L

METEOROLOGIC DATA-	TEMPERATURE	31.	DEG. C
	HUMIDITY	59.	%
	WIND SPEED	11.	MILES/HOUR
	WIND ANGLE	290.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND (HERTZ)	DB LEVEL (DB)
22-44	52.
44-88	51.
88-177	46.
177-355	42.
355-710	43.
710-1420	38.
1420-2840	36.
2840-5680	35.
5680-11360	33.
11360-22720	32.
22720-45440	31.
NOISE-DBA	43.
NOISE-LIN	56.

Table IV-12. (Continued)

MSMC011 LOCATION: YOUNG AND KORNBLUM
DATE: 761007
TIME: 1525

LATITUDE : N3307.98
LONGITUDE : W11539.93
TOWN/RANGE: 12S13E07N

METEOROLOGIC DATA-	TEMPERATURE	31.	DEG. C
	HUMIDITY	60.	%
	WIND SPEED	4.	MILES/HOUR
	WIND ANGLE	330.	DEGREES EAST OF NORTH (FROM)

NOISE DATA-	OCTAVE BAND	DB LEVEL
	(HERTZ)	(DB)
	22-44	42.
	44-88	48.
	88-177	41.
	177-355	44.
	355-710	40.
	710-1420	40.
	1420-2840	39.
	2840-5680	37.
	5680-11360	32.
	11360-22720	31.
	22720-45440	31.
	NOISE-DBA	44.
	NOISE-LIN	53.

MSMC012 LOCATION: END WENDEL ROAD
DATE: 761007
TIME: 1625

LATITUDE : N3304.93
LONGITUDE : W11542.52
TOWN/RANGE: 12S13E34F

METEOROLOGIC DATA-	TEMPERATURE	32.	DEG. C
	HUMIDITY	46.	%
	WIND SPEED	5.	MILES/HOUR
	WIND ANGLE	310.	DEGREES EAST OF NORTH (FROM)

NOISE DATA-	OCTAVE BAND	DB LEVEL
	(HERTZ)	(DB)
	22-44	42.
	44-88	42.
	88-177	42.
	177-355	32.
	355-710	32.
	710-1420	33.
	1420-2840	33.
	2840-5680	32.
	5680-11360	32.
	11360-22720	31.
	22720-45440	31.
	NOISE-DBA	37.
	NOISE-LIN	48.

Table IV-12. (Continued)

MSMC013 LOCATION: END BUCHARD ROAD LATITUDE : N3306.36
 DATE: 761007 LONGITUDE : W11540.96
 TIME: 1720 TOWN/RANGE: 12S12E24N

METEOROLOGIC DATA- TEMPERATURE 31. DEG. C
 HUMIDITY 58. %
 WIND SPEED 1. MILES/HOUR
 WIND ANGLE 320. DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND (HERTZ)	DB LEVEL (DB)
22-44	48.
44-88	43.
88-177	34.
177-355	32.
355-710	32.
710-1420	34.
1420-2840	36.
2840-5680	34.
5680-11360	32.
11360-22720	32.
22720-45440	31.
NOISE-DBA	33.
NOISE-LIN	48.

MSMC014 LOCATION: E SIDE FINNEY LAKE LATITUDE : N3303.79
 DATE: 761008 LONGITUDE : W11529.89
 TIME: 0735 TOWN/RANGE: 13S14E02F

METEOROLOGIC DATA- TEMPERATURE 15. DEG. C
 HUMIDITY 73. %
 WIND SPEED 3. MILES/HOUR
 WIND ANGLE 120. DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND (HERTZ)	DB LEVEL (DB)
22-44	47.
44-88	45.
88-177	39.
177-355	37.
355-710	35.
710-1420	32.
1420-2840	32.
2840-5680	31.
5680-11360	32.
11360-22720	31.
22720-45440	31.
NOISE-DBA	37.
NOISE-LIN	46.

Table IV-12. (Continued)

MSMC015 LOCATION: E SIDE FINNEY LAKE
 DATE: 761008
 TIME: 0750

LATITUDE : N3303.79
 LONGITUDE : W11529.89
 TOWN/RANGE: 13S14E02F

METEOROLOGIC DATA-	TEMPERATURE	17.	DEG. C
	HUMIDITY	75.	%
	WIND SPEED	4.	MILES/HOUR
	WIND ANGLE	130.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	48.
44-88	48.
88-177	44.
177-355	43.
355-710	42.
710-1420	38.
1420-2840	36.
2840-5680	35.
5680-11360	32.
11360-22720	32.
22720-45440	30.
NOISE-DBA	43.
NOISE-LIN	54.

MSMC016 LOCATION: E SIDE RAMER LAKE
 DATE: 761008
 TIME: 0835

LATITUDE : N3304.60
 LONGITUDE : W11530.32
 TOWN/RANGE: 12S14E34N

METEOROLOGIC DATA-	TEMPERATURE	21.	DEG. C
	HUMIDITY	62.	%
	WIND SPEED	2.	MILES/HOUR
	WIND ANGLE	140.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND	DB LEVEL
(HERTZ)	(DB)
22-44	43.
44-88	50.
88-177	51.
177-355	43.
355-710	45.
710-1420	43.
1420-2840	36.
2840-5680	30.
5680-11360	29.
11360-22720	29.
22720-45440	29.
NOISE-DBA	49.
NOISE-LIN	61.

Table IV-12. (Concluded)

MSMC017 LOCATION: HUNTER RD
 DATE: 761008
 TIME: 1012

LATITUDE : N3305.50
 LONGITUDE : W11531.46
 TOWN/RANGE: 12S14E28N

METEOROLOGIC DATA-	TEMPERATURE	29.	DEG. C
	HUMIDITY	34.	%
	WIND SPEED	2.	MILES/HOUR
	WIND ANGLE	150.	DEGREES EAST OF NORTH (FROM)

NOISE DATA- OCTAVE BAND (HERTZ)	DB LEVEL (DB)
22-44	49.
44-88	46.
88-177	50.
177-355	34.
355-710	32.
710-1420	32.
1420-2840	31.
2840-5680	29.
5680-11360	29.
11360-22720	29.
22720-45440	29.
NOISE-DBA	37.
NOISE-LIN	55.

ECOSYSTEM QUALITY

AQUATIC STUDIES

LLL Team Leader: Robert R. Ireland
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, California 94550

FTS: 457-4630
Commercial: (415) 447-1100, Ext. 4630

ECOSYSTEM QUALITY

AQUATIC STUDIES

Salton Sea Fishes

Contractor: Richard E. Tullis
William M. Moran
Department of Biological Sciences
California State University, Hayward
Hayward, California 94542

Commercial: (415) 881-3471

Baseline samples of fish have been collected from the Salton Sea in October, 1976, and January, 1977. The samples collected in October are listed in Table IV-13. This Table is ordered by Site, and subordered by Sample Number. The Collection Sites are RHM = Red Hill Marina and SSSP = Salton Sea State Park. Various morphometric data are included in Table IV-13. FRC is an abbreviation for Fin Ray Count. Pertinent comments about the samples are included at the end of the Table.

Table IV-13. List of baseline samples of fish collected from the Salton Sea, and pertinent morphometric data. The list is ordered by Collection Site (RHM = Red Hill Marina and SSSP = Salton Sea State Park), and subordered by Sample Number.

SAMPLE NUMBER	GRAB SITE	DATE YYMMDD	SAMPLE TYPE	*** SAMPLE DESCRIPTION ***	WEIGHT GRAMS	LENGTH CM	FRC RAY	FRC SPINE1	FRC SPINE2
VHAMADOF	RHM	761019	AQUATIC FISH	MOLLY POOL	11.878				
VHAMBOF	RHM	761019	AQUATIC FISH	MOLLY POOL	13.584				
VHAMCOF	RHM	761019	AQUATIC FISH	MOLLY POOL	11.231				
VHAMDOF	RHM	761019	AQUATIC FISH	MOLLY POOL	9.116				
VHAMEOF	RHM	761019	AQUATIC FISH	MOLLY POOL	10.855				
VHAMFOF	RHM	761019	AQUATIC FISH	MOLLY POOL	11.685				
VHAMGOF	RHM	761019	AQUATIC FISH	MOLLY POOL	12.193				
VHAMHOF	RHM	761019	AQUATIC FISH	MOLLY POOL	12.155				
VHAMIOF	RHM	761019	AQUATIC FISH	MOLLY POOL	12.203				
VHAMJOF	RHM	761019	AQUATIC FISH	MOLLY POOL	10.813				
VHAMKOF	RHM	761019	AQUATIC FISH	MOLLY POOL	12.308				
VHAMLOF	RHM	761019	AQUATIC FISH	MOLLY POOL	14.570				
VHAMNOF	RHM	761019	AQUATIC FISH	MOLLY POOL	11.859				
VHAMPOF	RHM	761019	AQUATIC FISH	MOLLY POOL	11.853				
VHAMQOF	RHM	761019	AQUATIC FISH	MOLLY POOL	12.420				
VHAMROF	RHM	761019	AQUATIC FISH	MOLLY POOL	13.614				
VHABAHL	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER POOL	14.147				
VHABA0B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHABA0F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	246.1	23.	25	12	
VHABA0G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	5.4				
VHABA0L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	2.058				
VHABA0M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	301.2	25.5	27	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	8.2				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	1.756				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	288.1	25.	27	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	9.5				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	1.543				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	282.6	24.5	28	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	8.7				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	2.702				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	279.8	23.5	29	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	8.5				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	2.043				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	276.1	23.5	29	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	18.8				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIRDIELLA LIVER	1.025				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIRDIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIRDIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIRDIELLA	310.8	24.5	27	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIRDIELLA GONAD	11.8				

Table IV-13. (Continued)

SAMPLE NUMBER	GRAB SITE	DATE YYMMDD	SAMPLE TYPE	*** SAMPLE DESCRIPTION ***	HEIGHT GRAMS	LENGTH CM	FRC RAY	FRC SPINE1	FRC SPINE2
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.301				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	276.4	24.0	25	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	10.3				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	0.759				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER POOL	17.702				
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	332.	26.	28	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	8.8				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.085				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	328.1	26.5	24	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	9.5				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.591				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	232.7	23.5	26	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	14.				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	1.186				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	318.4	25.5	25	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	10.7				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	3.010				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	265.8	23.2	27	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	18.				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.758				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	248.6	23.	24	12	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	5.8				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.304				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	262.3	23.5	28	10	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	8.9				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	1.856				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHAB00B	SSSP	761019	AQUATIC FISH	BAIROIELLA BONE					
VHAB00F	SSSP	761019	AQUATIC FISH	BAIROIELLA	215.4	21.	27	11	
VHAB00G	SSSP	761019	AQUATIC FISH	BAIROIELLA GONAD	13.9				
VHAB00L	SSSP	761019	AQUATIC FISH	BAIROIELLA LIVER	2.007				
VHAB00M	SSSP	761019	AQUATIC FISH	BAIROIELLA MUSCLE					
VHACACK	SSSP	761019	AQUATIC FISH	CORVINA KIDNEY POOL	3.684				
VHACA0B	SSSP	761019	AQUATIC FISH	CORVINA BONE					
VHACA0F	SSSP	761019	AQUATIC FISH	CORVINA	802.	35.5	20	9	1
VHACA0G	SSSP	761019	AQUATIC FISH	CORVINA GONAD	11.2				
VHACA0L	SSSP	761019	AQUATIC FISH	CORVINA LIVER	0.151				
VHACA0M	SSSP	761019	AQUATIC FISH	CORVINA MUSCLE					
VHAC00B	SSSP	761019	AQUATIC FISH	CORVINA BONE					
VHAC00F	SSSP	761019	AQUATIC FISH	CORVINA	1019.	39.5	20	9	1

Table IV-13. (Continued)

SAMPLE NUMBER	GRAB SITE	DATE YYMMDD	SAMPLE TYPE	*** SAMPLE DESCRIPTION ***	WEIGHT GRAMS	LENGTH CM	FRC RAY	FRC SPINE1	FRC SPINE2
VHACB00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	18.4				
VHACB0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	7.514				
VHACB0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACC00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACC0F	SSSP	781019	AQUATIC FISH	CORVINA	737.	37.	21	9	1
VHACC00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	8.4				
VHACC0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	2.791				
VHACC0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACD00	SSSP	781019	AQUATIC FISH	CORVINA KIDNEY POOL	7.142				
VHACD00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACD0F	SSSP	781019	AQUATIC FISH	CORVINA	810.	39.	20	9	1
VHACD00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	17.9				
VHACD0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	8.359				
VHACD0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACE00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACE0F	SSSP	781019	AQUATIC FISH	CORVINA	760.5	38.	20	9	1
VHACE00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	2.5				
VHACE0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	6.012				
VHACE0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACF00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACF0F	SSSP	781019	AQUATIC FISH	CORVINA	861.5	38.5	21	10	1
VHACF00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	15.				
VHACF0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	12.279				
VHACF0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACG00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACG0F	SSSP	781019	AQUATIC FISH	CORVINA	799.3	38.5	20	9	1
VHACG00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	2.5				
VHACG0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	5.314				
VHACG0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACH00	SSSP	781019	AQUATIC FISH	CORVINA KIDNEY POOL	5.402				
VHACH00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACH0F	SSSP	781019	AQUATIC FISH	CORVINA	1032.	40.	20	8	1
VHACH00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	15.7				
VHACH0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	10.998				
VHACH0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACI00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACI0F	SSSP	781019	AQUATIC FISH	CORVINA	751.3	35.	20	9	1
VHACI00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	8.2				
VHACI0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	4.896				
VHACI0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACJ00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACJ0F	SSSP	781019	AQUATIC FISH	CORVINA	737.9	38.5	19	9	1
VHACJ00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	10.3				
VHACJ0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	7.089				
VHACJ0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACK00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACK0F	SSSP	781019	AQUATIC FISH	CORVINA	846.0	38.5	20	9	1
VHACK00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	20.5				
VHACK0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	9.892				
VHACK0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACL00	SSSP	781019	AQUATIC FISH	CORVINA KIDNEY POOL	3.937				
VHACL00	SSSP	781019	AQUATIC FISH	CORVINA BONE					
VHACL0F	SSSP	781019	AQUATIC FISH	CORVINA	1352.5	45.5	20	9	1
VHACL00	SSSP	781019	AQUATIC FISH	CORVINA GONAD	7.7				
VHACL0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER	8.247				
VHACL0H	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					

Table IV-13. (Continued)

SAMPLE NUMBER	GRAB SITE	DATE YYMMDD	SAMPLE TYPE	*** SAMPLE DESCRIPTION ***	WEIGHT GRAMS	LENGTH CM	FRC RAY	FRC SPINE1	FRC SPINE2
VHACH08	SSSP	781019	AQUATIC FISH	CORVINA BONE	878.4	39.	19	9	1
VHACH0F	SSSP	781019	AQUATIC FISH	CORVINA BONE	15.9				
VHACH0G	SSSP	781019	AQUATIC FISH	CORVINA GONAD	8.023				
VHACH0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER					
VHACH0M	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACH0K	SSSP	781019	AQUATIC FISH	CORVINA KIDNEY					
VHACH0B	SSSP	781019	AQUATIC FISH	CORVINA BONE	874.8	33.	21	9	1
VHACH0F	SSSP	781019	AQUATIC FISH	CORVINA BONE	8.4				
VHACH0G	SSSP	781019	AQUATIC FISH	CORVINA GONAD	9.057				
VHACH0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER					
VHACH0M	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACP0B	SSSP	781019	AQUATIC FISH	CORVINA BONE	810.9	38.5	20	9	1
VHACP0F	SSSP	781019	AQUATIC FISH	CORVINA BONE	9.5				
VHACP0G	SSSP	781019	AQUATIC FISH	CORVINA GONAD	7.838				
VHACP0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER					
VHACP0M	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHACQ0B	SSSP	781019	AQUATIC FISH	CORVINA BONE	878.3	38.	20	9	1
VHACQ0F	SSSP	781019	AQUATIC FISH	CORVINA BONE	28.6				
VHACQ0G	SSSP	781019	AQUATIC FISH	CORVINA GONAD	15.428				
VHACQ0L	SSSP	781019	AQUATIC FISH	CORVINA LIVER					
VHACQ0M	SSSP	781019	AQUATIC FISH	CORVINA MUSCLE					
VHASA0B	SSSP	781019	AQUATIC FISH	SARGO BONE	84.2	13.	13	12	
VHASA0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASA0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASB0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.2	11.5	12	11	
VHASB0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASB0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASC0B	SSSP	781019	AQUATIC FISH	SARGO BONE	63.8	12.	12	12	
VHASC0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASC0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASD0B	SSSP	781019	AQUATIC FISH	SARGO BONE	39.4	11.	13	12	
VHASD0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASD0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASE0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.8	11.5	13	11	
VHASE0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASE0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASF0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.8	11.	13	11	
VHASF0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASF0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASG0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.1	11.	13	11	
VHASG0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASG0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASM0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.4	11.5	14	11	
VHASM0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASM0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASI0B	SSSP	781019	AQUATIC FISH	SARGO BONE	257.2	19.5	13	12	
VHASI0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASI0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASJ0B	SSSP	781019	AQUATIC FISH	SARGO BONE	43.0	11.0	13	12	
VHASJ0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASJ0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASK0B	SSSP	781019	AQUATIC FISH	SARGO BONE	47.8	11.8	15	11	
VHASK0F	SSSP	781019	AQUATIC FISH	SARGO BONE					
VHASK0M	SSSP	781019	AQUATIC FISH	SARGO MUSCLE					
VHASL0B	SSSP	781019	AQUATIC FISH	SARGO BONE	48.5	11.	13	12	
VHASL0F	SSSP	781019	AQUATIC FISH	SARGO BONE					

Table IV-13. (Continued)

SAMPLE NUMBER	GRAB SITE	DATE YYMMDD	SAMPLE TYPE	*** SAMPLE DESCRIPTION ***	WEIGHT GRAMS	LENGTH CM	FRC RAY	FRC SPINE1	FRC SPINE2
VHASLON	SSSP	761019	AQUATIC FISH SARGO	MUSCLE					
VHASMOB	SSSP	761019	AQUATIC FISH SARGO	BONE	44.8	11.	12	10	
VHASMOF	SSSP	761019	AQUATIC FISH SARGO						
VHASMOH	SSSP	761019	AQUATIC FISH SARGO	MUSCLE					
VHASMOB	SSSP	761019	AQUATIC FISH SARGO	BONE	58.7	11.5	14	12	
VHASNOF	SSSP	761019	AQUATIC FISH SARGO						
VHASNOH	SSSP	761019	AQUATIC FISH SARGO	MUSCLE					

Table IV-13. (Concluded)

SAMPLE	COMMENTS
VHABAH	LIVER POOL OF VHABOL, VHABUL, VHABOL, VHABOL, VHABOL, VHABOL, VHABOL
VHABAH	VHABOL
VHABOH	BODY OF FISH HAD GREENISH TINT.
VHABOH	GONAD DISCOLORED. WAS GREEN
VHABOL	LIVER HAS DARK RED, ALMOST BLACK.
VHABOL	LIVER POOL OF VHABOL, VHABOL, VHABOL, VHABOL, VHABOL, VHABOL, VHABOL
VHABOL	VHABOL
VHABOL	HAD A BLOATED ABDOMINAL AREA
VHABOL	MUSCLE SAMPLE NUMBER ONE. IDENTIFIED VHABOL
VHABOL	MUSCLE SAMPLE NUMBER TWO. IDENTIFIED VHABOL
VHABOL	MUSCLE SAMPLE NUMBER THREE. IDENTIFIED VHABOL
VHABOL	KIDNEY POOL OF VHABOL, VHABOL, VHABOL
VHABOL	KIDNEY POOL OF VHABOL, VHABOL, VHABOL
VHABOL	FISH HAD VERY FOUL ODOR
VHABOL	LIVER HAS BLACK
VHABOL	KIDNEY POOL OF VHABOL, VHABOL, VHABOL, VHABOL
VHABOL	DARK RESIDUE ON INSIDE OF BEAKER AFTER ASHING.
VHABOL	CONTAINED LIQUID AFTER 86HRS IN DRYING OVEN. BECAME SOLID WHEN COLD.
VHABOL	KIDNEY POOL OF VHABOL, VHABOL, VHABOL, VHABOL, VHABOL
VHABOL	KIDNEY HAS DARK GREEN
VHABOL	CONTAINED LIQUID AFTER 119 HRS IN DRYING OVEN.
VHABOL	LIQUID REMAINED AFTER SAMPLE WAS COOLED.
VHABOL	AFTER COOLING CONTAINED LIQUID AFTER 118 HRS IN DRYING OVEN
VHABOL	SAMPLE CONTAINS SIX FISH
VHABOL	SAMPLE CONTAINS FIVE FISH
VHABOL	SAMPLE CONTAINS SEVEN FISH
VHABOL	SAMPLE CONTAINS SIX FISH
VHABOL	SAMPLE CONTAINS THREE FISH
VHABOL	SAMPLE CONTAINS SEVEN FISH
VHABOL	SAMPLE CONTAINS SIX FISH
VHABOL	SAMPLE CONTAINS SIX FISH
VHABOL	SAMPLE CONTAINS FOUR FISH
VHABOL	SAMPLE CONTAINS FOUR FISH
VHABOL	SAMPLE CONTAINS THREE FISH
VHABOL	SAMPLE CONTAINS THREE FISH
VHABOL	SAMPLE CONTAINS FOUR FISH
VHABOL	SAMPLE CONTAINS THREE FISH
VHABOL	SAMPLE CONTAINS FIVE FISH
VHABOL	SAMPLE CONTAINS FOUR FISH

C

C

ECOSYSTEM QUALITY

AQUATIC STUDIES

Pileworm and Freshwater Studies

LLL Investigator: Robert R. Ireland
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-4630
Commercial: (415) 447-1100 Ext. 4630

Baseline samples of pileworms from the Salton Sea and fish from various freshwater channels have been collected. These are listed in Table IV-14. The list is ordered by Site, and subordered by Sample Number. Water samples were also collected at the same time and these are listed in Table IV-15, as are pertinent field measurements of temperature, pH, conductivity, and dissolved O_2 .

Table IV-14. Baseline samples of pileworms from the Salton Sea and freshwater fish collected by LLL. The list is ordered by Collection Site, and subordered by Sample Number.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****				
VMIJS**	07S09E20	770303	AQUATIC	FISH	SHINER	POOL	JOHNSON-STR	DRAIN
VMIJT**	07S09E20	770303	AQUATIC	FISH	TILAPIA	POOL	JOHNSON-STR	DRAIN
VMAMP**	07S10E33	760210	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMHND**	08S10E02E	761202	AQUATIC	FISH	PUPFISH	POOL	WHITEFIELD	STREAM
VMHNG**	08S10E02E	761202	AQUATIC	FISH	GAMBUSIA	POOL	WHITEFIELD	STREAM
VMHNM**	08S10E02E	761202	AQUATIC	FISH	MOLLY	POOL	WHITEFIELD	STREAM
VMIHD**	08S10E02E	770302	AQUATIC	FISH	PUPFISH	POOL	WHITEFIELD	STREAM
VMIHG**	08S10E02E	770302	AQUATIC	FISH	GAMBUSIA	POOL	WHITEFIELD	STREAM
VMIHM**	08S10E02E	770302	AQUATIC	FISH	MOLLY	POOL	WHITEFIELD	STREAM
VMHSD**	08S10E02F	761202	AQUATIC	FISH	PUPFISH	POOL	WHITEFIELD	STREAM
VMHSG**	08S10E02F	761202	AQUATIC	FISH	GAMBUSIA	POOL	WHITEFIELD	STREAM
VMHSM**	08S10E02F	761202	AQUATIC	FISH	MOLLY	POOL	WHITEFIELD	STREAM
VMBBPD0	08S10E12M	760302	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBBPOL	08S10E12M	760302	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMCBP**	08S10E12M	760402	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGBP**	08S10E12M	761014	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGBP00	08S10E12M	761014	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMHBP**	08S10E12M	761201	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMADP**	09S09E10	760211	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBDP00	09S09E10	760302	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBDPOL	09S09E10	760302	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMCDP**	09S09E10	760402	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMEDP**	09S09E10	760630	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFOPA0	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFOPC0	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPD0	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPF0	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPFJ	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPFL	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPFH	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPFJ	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPFL	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPF0	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMFDPOL	09S09E10	760810	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGDP**	09S09E10	761014	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGDP00	09S09E10	761014	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBNPD0	11S11E21N	760303	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBNPOL	11S11E21N	760303	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBRPD0	11S13E28G	760303	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMBRPOL	11S13E28G	760303	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMCRP**	11S13E28G	760403	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGRP**	11S13E28G	761013	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMGRP00	11S13E28G	761013	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMCEP**	12S11E12P	760403	AQUATIC	WORM	PILEWORM	POOL	SALTON	SEA
VMICF00	16S15E33E	770301	AQUATIC	FISH	GAMBUSIA	POOL	SOUTH-CENTRAL	DRAIN

Table VI-15. Baseline samples of water collected at the same time as the samples of fish and pileworms given in Table IV-14. Field measurements of water parameters are also listed.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	*** DESCRIPTION ****	TEMP DEG C	PH	COND (AT 25) UMHOS/CM	DIS. 02 MGR/L
VMIJW00	07S09E20	770303	WATER	DRAIN JOHNSON-STR	18.	7.8	2530.	
VMHWW00	08S10E02E	761202	WATER	STREAM WHITEFIELD	20.		7150.	
VMIWW00	08S10E02E	770302	WATER	STREAM WHITEFIELD	21.	7.9	5400.	
VMHSW00	08S10E02F	761202	WATER	STREAM WHITEFIELD	17.		6490.	
VMBBW00	08S10E12M	760302	WATER	SEA SALTON	20.	8.1	36300.	
VMCBW00	08S10E12M	760402	WATER	SEA SALTON	24.	8.2	33660.	
VMDBW00	08S10E12M	760526	WATER	SEA SALTON	27.	8.5	31680.	6.0
VMGBW00	08S10E12M	761014	WATER	SEA SALTON	25.	8.1	30000.	6.8
VMHBW00	08S10E12M	761201	WATER	SEA SALTON	19.		44800.	
VMBDW00	09S09E10	760302	WATER	SEA SALTON	21.	8.1	35640.	
VMCDW00	09S09E10	760402	WATER	SEA SALTON	25.	8.2	32000.	
VMDDW00	09S09E10	760526	WATER	SEA SALTON	26.	8.2	31360.	5.9
VMFDW00	09S09E10	760810	WATER	SEA SALTON	30.	8.1	29700.	
VMGDW00	09S09E10	761014	WATER	SEA SALTON	27.	8.0	28800.	6.1
VMBNW00	11S11E21N	760303	WATER	SEA SALTON	20.	8.1	35200.	
VMBRW00	11S13E28G	760303	WATER	SEA SALTON	21.	8.1	33480.	
VMCRW00	11S13E28G	760403	WATER	SEA SALTON	25.	8.2	31000.	
VMDRW00	11S13E28G	760526	WATER	SEA SALTON	27.	8.2	29760.	7.0
VMGRW00	11S13E28G	761014	WATER	SEA SALTON	26.	8.1	28420.	7.3
VMCEW00	12S11E12P	760403	WATER	SEA SALTON	26.	8.0	30380.	
VMDEW00	12S11E12P	760526	WATER	SEA SALTON	30.	8.0	27000.	8.3
VMGLW00	12S12E20N	761013	WATER	SEA SALTON	28.	8.1	29140.	5.5
VMICW00	16S15E33E	770301	WATER	DRAIN SOUTH-CENTRAL	16.	7.2	2880.	

IV-121

ECOSYSTEM QUALITY

AGRICULTURE

LLL Team Leader: Gary A. Tompkins
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-4925
Commercial: (415) 447-1100 Ext. 4925

ECOSYSTEM QUALITY

AGRICULTURE

U.S. Forest Service
Forest Sciences Division
Forest Sciences Laboratory
University of California
P.O. Box 800
Berkeley, California 94709

ATTN: Mr. [Name]
Telephone: (415) 841-1100 Ext. 4815

IV-125

Samples of soil and agricultural crops have been collected in Imperial Valley. Many are historical samples previously collected by the University of California Agriculture Experiment Station. Data on macroelement content for several of these samples are available from other sources. Several hundred similar historical samples are also available, and will eventually be turned over to the IVEP.

The soil samples are listed in Table IV-16. The list is ordered by Collection Site. The vegetation samples are listed in Table IV-17. This list is also ordered by Collection Site.

Samples of milk have also been collected from Imperial Valley dairies and from other dairies using feed grown in Imperial Valley. These samples have not yet been entered into the IVEP Data Base.

Table IV-16. Soil samples collected by the agriculture baselines team. The table is ordered by Collection Site.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VTU017	11S15E33	751214	SOIL	SURFACE:0-12IN.
VTU023	12S11E	760323	SOIL	SURFACE:0-12IN.
VTU024	12S11E	760323	SOIL	SURFACE:0-12IN.
VTU025	12S11E	760323	SOIL	SURFACE:0-12IN.
VTS012	12S11E08	751212	SOIL	SURFACE:0-12IN.
VTS003	12S11E25	751212	SOIL	SURFACE:0-12IN.
VTS008	12S12E35	751212	SOIL	SURFACE:0-12IN.
VTS020	12S13E13	751214	SOIL	SURFACE:0-12IN.
VTU006	12S13E14G	760226	SOIL	SURFACE:0-12IN.
VTU007	12S13E14G	760226	SOIL	SURFACE:0-12IN.
VTU008	12S13E14G	760226	SOIL	SURFACE:0-12IN.
VTU009	12S13E14G	760226	SOIL	SURFACE:0-12IN.
VTS024	12S13E23	751214	SOIL	SURFACE:0-12IN.
VTS011	12S13E33	751212	SOIL	SURFACE:0-12IN.
VTS021	12S15E15	751214	SOIL	SURFACE:0-12IN.
VTU029	13S12E15A	760429	SOIL	SURFACE:0-12IN.
VTU030	13S12E15A	760429	SOIL	SURFACE:0-12IN.
VTU031	13S12E15A	760429	SOIL	SURFACE:0-12IN.
VTU032	13S12E15A	760429	SOIL	SURFACE:0-12IN.
VTS009	13S12E24	751212	SOIL	SURFACE:0-12IN.
VTS006	13S13E27	751212	SOIL	SURFACE:0-12IN.
VTS004	13S13E33	751212	SOIL	SURFACE:0-12IN.
VTU033	13S13E35Q	760810	SOIL	SURFACE:0-12IN.
VTU034	13S13E35Q	760810	SOIL	SURFACE:0-12IN.
VTU035	13S13E35Q	760810	SOIL	SURFACE:0-12IN.
VTS016	13S14E30	751214	SOIL	SURFACE:0-12IN.
VTU016	13S14E31Q	760303	SOIL	SURFACE:0-12IN.
VTU017	13S14E31Q	760311	SOIL	SURFACE:0-12IN.
VTU018	13S14E31Q	760311	SOIL	SURFACE:0-12IN.
VTU001	13S16E07P	761005	SOIL	SURFACE:0-12IN.
VTU002	13S16E07P	761005	SOIL	SURFACE:0-12IN.
VTU003	13S16E07P	761005	SOIL	SURFACE:0-12IN.
VTS005	14S13E03	751212	SOIL	SURFACE:0-12IN.
VTS001	14S13E04	751212	SOIL	SURFACE:0-12IN.
VTS002	14S13E23	751212	SOIL	SURFACE:0-12IN.
VTU026	15S14E20G	760326	SOIL	SURFACE:0-12IN.
VTU027	15S14E20G	760326	SOIL	SURFACE:0-12IN.
VTU028	15S14E20G	760326	SOIL	SURFACE:0-12IN.
VTS015	15S16E03	751214	SOIL	SURFACE:0-12IN.
VTS023	15S16E22	751214	SOIL	SURFACE:0-12IN.
VTU012	15S16E35G	760303	SOIL	SURFACE:0-12IN.
VTU013	15S16E35G	760303	SOIL	SURFACE:0-12IN.
VTU014	15S16E35G	760303	SOIL	SURFACE:0-12IN.
VTU015	15S16E35G	760303	SOIL	SURFACE:0-12IN.
VTS019	16S13E21	751214	SOIL	SURFACE:0-12IN.
VTU004	16S15E08C	760129	SOIL	SURFACE:0-12IN.
VTU005	16S15E08C	760129	SOIL	SURFACE:0-12IN.
VTS018	16S15E28	751214	SOIL	SURFACE:0-12IN.
VTS014	16S16E18	751214	SOIL	SURFACE:0-12IN.
VTS010	17S13E	751212	SOIL	SURFACE:0-12IN.

Table IV-16. (Concluded)

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VTU019	17S14E04M	760310	SOIL	SURFACE:0-12IN.
VTU020	17S14E04M	760310	SOIL	SURFACE:0-12IN.
VTU021	17S14E04M	760310	SOIL	SURFACE:0-12IN.
VTU022	17S14E04M	760310	SOIL	SURFACE:0-12IN.
VTU007	17S14E05	751212	SOIL	SURFACE:0-12IN.
VTU013	17S15E12	751214	SOIL	SURFACE:0-12IN.
VTU010	17S16E01C	760311	SOIL	SURFACE:0-12IN.
VTU011	17S16E01C	760311	SOIL	SURFACE:0-12IN.
VTU022	17S16E09	751214	SOIL	SURFACE:0-12IN.

Table IV-17. Agricultural crop samples collected by the agricultural baselines team. The Table is ordered by Collection Site.

SAMPLE NUMBER	COLLECTION SITE	DATE YYMMDD	SAMPLE TYPE	***** SAMPLE DESCRIPTION *****
VTC070	11S14E09L	760902	VEGETATION	COTTON LEAF
VTC071	11S14E09L	760902	VEGETATION	COTTON LEAF
VTC072	11S14E09L	760902	VEGETATION	COTTON LEAF
VTC101	11S14E09L	760916	VEGETATION	COTTON LEAF
VTC066	11S14E19K	760902	VEGETATION	COTTON LEAF
VTC067	11S14E19K	760902	VEGETATION	COTTON LEAF
VTC095	11S14E19K	760915	VEGETATION	COTTON LEAF
VTC096	11S14E19K	760915	VEGETATION	COTTON LEAF
VTC097	11S14E19K	760915	VEGETATION	COTTON LEAF
VTC060	11S14E19L	760902	VEGETATION	COTTON LEAF
VTC061	11S14E19L	760902	VEGETATION	COTTON LEAF
VTC062	11S14E19L	760902	VEGETATION	COTTON LEAF
VTC098	11S14E19L	760915	VEGETATION	COTTON LEAF
VTC099	11S14E19L	760915	VEGETATION	COTTON LEAF
VTC100	11S14E19L	760915	VEGETATION	COTTON LEAF
VTC056	11S14E21C	760902	VEGETATION	COTTON LEAF
VTC057	11S14E21C	760902	VEGETATION	COTTON LEAF
VTC058	11S14E21C	760902	VEGETATION	COTTON LEAF
VTC059	11S14E21C	760902	VEGETATION	COTTON LEAF
VTC102	11S14E21C	760916	VEGETATION	COTTON LEAF
VTC103	11S14E21C	760916	VEGETATION	COTTON LEAF
VTC104	11S14E21C	760916	VEGETATION	COTTON LEAF
VTC105	11S14E21C	760916	VEGETATION	COTTON LEAF
VTC117	11S14E21L	750910	VEGETATION	COTTON LEAF
VTC121	11S14E21L	751007	VEGETATION	COTTON LEAF
VTC063	11S14E24J	760902	VEGETATION	COTTON LEAF
VTC064	11S14E24J	760902	VEGETATION	COTTON LEAF
VTC065	11S14E24J	760902	VEGETATION	COTTON LEAF
VTC106	11S14E24J	760916	VEGETATION	COTTON LEAF
VTC107	11S14E24J	760916	VEGETATION	COTTON LEAF
VTH017	11S15E33	751214	VEGETATION	LETTUCE HEAD
VTW017	11S15E33	751214	VEGETATION	LETTUCE WRAPPER
VTC114	12S11E	750910	VEGETATION	COTTON LEAF
VTC126	12S11E	751007	VEGETATION	COTTON LEAF
VTH012	12S11E08	751212	VEGETATION	LETTUCE HEAD
VTW012	12S11E08	751212	VEGETATION	LETTUCE WRAPPER
VTH003	12S11E25	751212	VEGETATION	LETTUCE HEAD
VTW003	12S11E25	751212	VEGETATION	LETTUCE WRAPPER
VTH008	12S12E35	751212	VEGETATION	LETTUCE HEAD
VTW008	12S12E35	751212	VEGETATION	LETTUCE WRAPPER
VTH020	12S13E13	751214	VEGETATION	LETTUCE HEAD
VTW020	12S13E13	751214	VEGETATION	LETTUCE WRAPPER
VTC122	12S13E14	751007	VEGETATION	COTTON LEAF
VTC108	12S13E14G	750910	VEGETATION	COTTON LEAF
VTT168	12S13E14G	760324	VEGETATION	TOMATOE LEAF
VTT169	12S13E14G	760324	VEGETATION	TOMATOE LEAF
VTT170	12S13E14G	760324	VEGETATION	TOMATOE LEAF
VTT171	12S13E14G	760324	VEGETATION	TOMATOE LEAF
VTT172	12S13E14G	760324	VEGETATION	TOMATOE LEAF
VTT173	12S13E14G	760324	VEGETATION	TOMATOE LEAF

Table IV-17. (Continued)

VTC068	12S13E20H	760902	VEGETATION	COTTON	LEAF
VTC069	12S13E20H	760902	VEGETATION	COTTON	LEAF
VTC081	12S13E20H	760913	VEGETATION	COTTON	LEAF
VTC082	12S13E20H	760913	VEGETATION	COTTON	LEAF
VTH024	12S13E23	751214	VEGETATION	LETTUCE	HEAD
VTH024	12S13E23	751214	VEGETATION	LETTUCE	WRAPPER
VTH011	12S13E33	751212	VEGETATION	LETTUCE	HEAD
VTH011	12S13E33	751212	VEGETATION	LETTUCE	WRAPPER
VTH021	12S15E15	751214	VEGETATION	LETTUCE	HEAD
VTH021	12S15E15	751214	VEGETATION	LETTUCE	WRAPPER
VTC113	13S12E15	750910	VEGETATION	COTTON	LEAF
VTC125	13S12E15A	751007	VEGETATION	COTTON	LEAF
VTH009	13S12E24	751212	VEGETATION	LETTUCE	HEAD
VTH009	13S12E24	751212	VEGETATION	LETTUCE	WRAPPER
VTH006	13S13E27	751212	VEGETATION	LETTUCE	HEAD
VTH006	13S13E27	751212	VEGETATION	LETTUCE	WRAPPER
VTH004	13S13E33	751212	VEGETATION	LETTUCE	HEAD
VTH004	13S13E33	751212	VEGETATION	LETTUCE	WRAPPER
VTB130	13S13E35Q	760426	VEGETATION	SUGAR-BEET	LEAF
VTB131	13S13E35Q	760426	VEGETATION	SUGAR-BEET	LEAF
VTB132	13S13E35Q	760426	VEGETATION	SUGAR-BEET	LEAF
VTB133	13S13E35Q	760426	VEGETATION	SUGAR-BEET	LEAF
VTB134	13S13E35Q	760618	VEGETATION	SUGAR-BEET	LEAF
VTB135	13S13E35Q	760618	VEGETATION	SUGAR-BEET	LEAF
VTB136	13S13E35Q	760618	VEGETATION	SUGAR-BEET	LEAF
VTC077	13S13E35Q	760903	VEGETATION	COTTON	LEAF
VTC078	13S13E35Q	760903	VEGETATION	COTTON	LEAF
VTC079	13S13E35Q	760903	VEGETATION	COTTON	LEAF
VTC080	13S13E35Q	760903	VEGETATION	COTTON	LEAF
VTC088	13S13E35Q	760914	VEGETATION	COTTON	LEAF
VTC089	13S13E35Q	760914	VEGETATION	COTTON	LEAF
VTC090	13S13E35Q	760914	VEGETATION	COTTON	LEAF
VTC091	13S13E35Q	760914	VEGETATION	COTTON	LEAF
VTC115	13S13E35Q	750910	VEGETATION	COTTON	LEAF
VTC123	13S13E35Q	751007	VEGETATION	COTTON	LEAF
VTC124	13S13E35Q	751007	VEGETATION	COTTON	LEAF
VTH016	13S14E30	751214	VEGETATION	LETTUCE	HEAD
VTH016	13S14E30	751214	VEGETATION	LETTUCE	WRAPPER
VTL152	13S14E31Q	751202	VEGETATION	LETTUCE	LEAF
VTL153	13S14E31Q	751202	VEGETATION	LETTUCE	LEAF
VTL154	13S14E31Q	751202	VEGETATION	LETTUCE	LEAF
VTL155	13S14E31Q	751229	VEGETATION	LETTUCE	LEAF
VTL156	13S14E31Q	751229	VEGETATION	LETTUCE	LEAF
VTL157	13S14E31Q	751229	VEGETATION	LETTUCE	LEAF
VTC073	13S16E07P	760903	VEGETATION	COTTON	LEAF
VTC074	13S16E07P	760903	VEGETATION	COTTON	LEAF
VTC075	13S16E07P	760903	VEGETATION	COTTON	LEAF
VTC076	13S16E07P	760903	VEGETATION	COTTON	LEAF
VTC084	13S16E07P	760914	VEGETATION	COTTON	LEAF
VTC085	13S16E07P	760914	VEGETATION	COTTON	LEAF
VTC086	13S16E07P	760914	VEGETATION	COTTON	LEAF
VTC087	13S16E07P	760914	VEGETATION	COTTON	LEAF
VTC109	13S16E07P	750910	VEGETATION	COTTON	LEAF
VTC110	13S16E07P	750910	VEGETATION	COTTON	LEAF
VTC120	13S16E07P	751007	VEGETATION	COTTON	LEAF
VTH005	14S13E03	751212	VEGETATION	LETTUCE	HEAD
VTH005	14S13E03	751212	VEGETATION	LETTUCE	WRAPPER
VTH001	14S13E04	751212	VEGETATION	LETTUCE	HEAD
VTH001	14S13E04	751212	VEGETATION	LETTUCE	WRAPPER
VTC053	14S13E06K	760901	VEGETATION	COTTON	LEAF

Table IV-17. (Continued)

VTC054	14S13E06K	760901	VEGETATION	COTTON	LEAF
VTC055	14S13E06K	760901	VEGETATION	COTTON	LEAF
VTC083	14S13E06Q	760913	VEGETATION	COTTON	LEAF
VTC118	14S13E06Q	750910	VEGETATION	COTTON	LEAF
VTC127	14S13E07H	751007	VEGETATION	COTTON	LEAF
VTC128	14S13E07H	751007	VEGETATION	COTTON	LEAF
VTH002	14S13E23	751212	VEGETATION	LETTUCE	HEAD
VTW002	14S13E23	751212	VEGETATION	LETTUCE	WRAPPER
VTC111	14S13E31	750910	VEGETATION	COTTON	LEAF
VTC112	14S13E31	750910	VEGETATION	COTTON	LEAF
VTC129	14S13E31	751007	VEGETATION	COTTON	LEAF
VTC050	14S13E32P	760901	VEGETATION	COTTON	LEAF
VTC051	14S13E32P	760901	VEGETATION	COTTON	LEAF
VTC052	14S13E32P	760901	VEGETATION	COTTON	LEAF
VTC092	14S13E32P	760914	VEGETATION	COTTON	LEAF
VTC093	14S13E32P	760914	VEGETATION	COTTON	LEAF
VTC094	14S13E32P	760914	VEGETATION	COTTON	LEAF
VTC116	15S14E20G	750910	VEGETATION	COTTON	LEAF
VTC119	15S14E20G	751007	VEGETATION	COTTON	LEAF
VTL141	15S15E24Q	751113	VEGETATION	LETTUCE	LEAF
VTL142	15S15E24Q	751113	VEGETATION	LETTUCE	LEAF
VTL025	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL026	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL027	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL028	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL029	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL030	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL031	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL032	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL033	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL034	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL035	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL036	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL037	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL038	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL039	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL040	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL041	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL042	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL043	15S15E32	7603**	VEGETATION	LETTUCE	LEAF
VTL174	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL179	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL184	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL189	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL194	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL198	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL202	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL206	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL210	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL215	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL220	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL225	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL230	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL235	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL240	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTL245	15S15E32	75****	VEGETATION	LETTUCE	LEAF
VTH015	15S16E03	751214	VEGETATION	LETTUCE	HEAD
VTW015	15S16E03	751214	VEGETATION	LETTUCE	WRAPPER
VTH023	15S16E22	751214	VEGETATION	LETTUCE	HEAD
VTW023	15S16E22	751214	VEGETATION	LETTUCE	WRAPPER

Table IV-17. (Concluded)

VTL150	15S16E35G	751208	VEGETATION	LETTUCE	LEAF
VTL151	15S16E35G	751208	VEGETATION	LETTUCE	LEAF
VTL158	15S16E35G	751222	VEGETATION	LETTUCE	LEAF
VTL159	15S16E35G	751222	VEGETATION	LETTUCE	LEAF
VTL160	15S16E35G	751222	VEGETATION	LETTUCE	LEAF
VTL161	15S16E35G	751222	VEGETATION	LETTUCE	LEAF
VTL164	15S16E35G	760122	VEGETATION	LETTUCE	LEAF
VTL165	15S16E35G	760122	VEGETATION	LETTUCE	LEAF
VTL166	15S16E35G	760122	VEGETATION	LETTUCE	LEAF
VTL167	15S16E35G	760122	VEGETATION	LETTUCE	LEAF
VTH019	16S13E21	751214	VEGETATION	LETTUCE	HEAD
VTW019	16S13E21	751214	VEGETATION	LETTUCE	WRAPPER
VTL139	16S15E08C	751028	VEGETATION	LETTUCE	LEAF
VTL140	16S15E08C	751028	VEGETATION	LETTUCE	LEAF
VTL145	16S15E08C	751125	VEGETATION	LETTUCE	LEAF
VTL146	16S15E08C	751125	VEGETATION	LETTUCE	LEAF
VTL147	16S15E08C	751125	VEGETATION	LETTUCE	LEAF
VTH018	16S15E28	751214	VEGETATION	LETTUCE	HEAD
VTW018	16S15E28	751214	VEGETATION	LETTUCE	WRAPPER
VTH014	16S16E18	751214	VEGETATION	LETTUCE	HEAD
VTW014	16S16E18	751214	VEGETATION	LETTUCE	WRAPPER
VTH010	17S13E	751212	VEGETATION	LETTUCE	HEAD
VTW010	17S13E	751212	VEGETATION	LETTUCE	WRAPPER
VTL137	17S14E04M	751028	VEGETATION	LETTUCE	LEAF
VTL138	17S14E04M	751028	VEGETATION	LETTUCE	LEAF
VTL143	17S14E04M	751202	VEGETATION	LETTUCE	LEAF
VTL144	17S14E04M	751202	VEGETATION	LETTUCE	LEAF
VTH007	17S14E05	751212	VEGETATION	LETTUCE	HEAD
VTW007	17S14E05	751212	VEGETATION	LETTUCE	WRAPPER
VTH013	17S15E12	751214	VEGETATION	LETTUCE	HEAD
VTW013	17S15E12	751214	VEGETATION	LETTUCE	WRAPPER
VTL148	17S16E01C	751202	VEGETATION	LETTUCE	LEAF
VTL149	17S16E01C	751202	VEGETATION	LETTUCE	LEAF
VTL162	17S16E01C	760113	VEGETATION	LETTUCE	LEAF
VTL163	17S16E01C	760113	VEGETATION	LETTUCE	LEAF
VTH022	17S16E09	751214	VEGETATION	LETTUCE	HEAD
VTW022	17S16E09	751214	VEGETATION	LETTUCE	WRAPPER

ECOSYSTEM QUALITY

AGRICULTURE

EPA Team Leader: Gilbert D. Potter
Environmental Monitoring and Support
Laboratory--Las Vegas
Environmental Protection Agency
P.O. Box 15027
Las Vegas, Nevada 89114

FTS: 595-2969
Commercial: (702) 736-2969

The Environmental Protection Agency has collected agricultural samples in Imperial Valley. These have included samples of blood and hair from feedlot cattle and samples of eggs from local poultry farms. Due to the lateness of the request, it was not possible to include the detailed list of these samples or any results in this report.

ECOSYSTEM QUALITY

DESERT HABITATS

Team Leader: Evan M. Romney
Laboratory for Nuclear Medicine
and Radiation Biology
University of California at Los Angeles
900 Veteran Avenue
Los Angeles, California 90024

FTS: 965-8776
Commercial: (213) 825-8776

The UCLA team has responsibility for all ecosystem studies being conducted in desert habitat areas. Detailed lists of samples collected and the analytical results are now being assembled, and they will be included in the next report.

SUBSIDENCE AND SEISMICITY

Element Leader: Neil B. Crow
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-4923
Commercial: (415) 447-1100 Ext. 4923

The IVEP has contributed to the second resurvey of the Imperial Valley Subsidence Detection Network. This interagency network was already in existence and had been surveyed twice when the IVEP came into existence. The network and the results of the difference between the two surveys are shown in Fig. V-1.

The IVEP also contracted with the County of Imperial to establish a local subsidence detection network in the vicinity of the SDG&E/ERDA Geothermal Loop Experimental Facility. This network, shown in Fig. V-2, was first surveyed in Spring 1976. Detailed elevation data will be supplied later. This local network is currently being resurveyed.

Fig. V-1. The Imperial Valley Subsidence Detection Network and the measured differences in elevation over a recent two-year interval; from Lofgren.¹²

- Approximate location of Imperial County first- and second-order bench marks.
- Approximate location of company second-order bench marks.
- × Approximate location of additional ERDA/LLL second-bench marks.

Fig. V-2. Local leveling network near ERDA/SDG&E and SCE sites.

C

C

SUBSIDENCE AND SEISMICITY

SEISMICITY

Collaborator and Contractor: Gary Fuis
U.S. Geological Survey
Seismological Laboratory
California Institute of Technology
Pasadena, California 91125

FTS: 799-0266
Commercial: (213) 795-6811 Ext. 2956

C

REPORT OF THE

COMMISSIONER

OF THE

LAND OFFICE

FOR THE YEAR 1887

C

The U.S. Geological Survey (USGS) has maintained a network of seismometers in Imperial Valley since 1973. Under contract to the IVEP, six stations in and near the Salton Sea KGRA were added to this network in November 1976. This coincided with the occurrence of a swarm of earthquakes of minor magnitude.

The USGS has compiled a "Preliminary Catalog of Earthquakes in Northern Imperial Valley, October 1, 1976 to December 31, 1976."

Fig. V-3 is taken from that report, and indicates the location of recorded earthquake epicenters during that period. The locations of the seismometers are also shown.

Table V-1 is a preliminary catalog of hypocenter solutions for these earthquakes. The following abbreviations are used in Table V-1:

Y, Year of occurrence	}	GCT
M, Month of occurrence		
D, Day of occurrence		
H, Hour of occurrence		
M, Minute of occurrence		
SEC, Second of occurrence		

LAT, North latitude of epicenter, in degrees

LONG, West longitude of epicenter, in degrees

DEP, Depth of hypocenter, in kilometers

MAG, Magnitude

N, Number of P arrivals used in locating the earthquake

GAP, Maximum gap between stations contributing P-arrivals

DM, Distance from epicenter to nearest station used in locating the earthquake

RMS, Root mean square of travel time residuals, R_i , in seconds

ERH, Standard error of the epicenter, in kilometers

ERZ, Standard error of the focal depth, in kilometers

Q, Solution quality of the hypocenter

M, Model used in location. M = 1 throughout this preliminary catalog.

A 0.0 magnitude in Table V-1 indicates that the magnitude was not calculated. In most such cases, the signals were truncated by the onset of a larger event or extended by the onset of smaller events.

Fig. V-3. Location of earthquake epicenters in the Imperial Valley with respect to major faults for the period October 1, 1976, through December 31, 1976. Solid triangles are seismograph stations in the Imperial Valley network installed in 1973. Solid circles are the seismograph stations installed in November 1976.

Table V-1. Preliminary hypocenter solutions for earthquakes in Northern Imperial Valley, October 1976 through December 1976.

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
1	7610	3	21	17	10.06		32-45.21	115-25.93	0.84	1.92	6	199	28.4	0.04	0.4	4.6	C	1
2	7610	3	21	18	54.64		32-46.70	115-23.87	5.00	1.91	5	213	24.7	0.04	1.4	2.6	C	1
3	7610	4	16	29	29.91	33-	3.61	115-32.96	5.28	2.33	8	152	5.6	0.05	0.3	0.3	B	1
4	7610	9	10	21	20.39	32-46.22		115-34.41	8.84	2.89	11	120	23.7	0.13	0.8	1.0	B	1
5	7610	9	17	49	28.26	33-	4.07	115-34.87	4.90	1.77	8	129	8.6	0.04	0.3	0.4	B	1
6	7610	9	18	39	19.43	32-56.33		115-24.94	0.22	0.88	5	139	10.0	0.03	0.4	3.9	C	1
7	7610	9	23	14	47.55	33-	2.84	115-33.34	5.43	1.45	13	85	6.1	0.45	1.5	2.4	C	1
8	761031	7	52	59.30		32-51.95		115-28.86	5.00	2.04	11	122	20.6	0.12	0.7	6.0	C	1
9	761031	9	25	42.85		32-52.05		115-28.76	5.00	1.50	10	121	20.4	0.13	0.8	8.1	C	1
10	7611	1	2	42	30.39	32-48.48		115-27.55	2.53	1.75	7	138	24.4	0.07	0.7	5.3	C	1
11	7611	4	3	3	56.73	33-	6.81	115-35.96	3.35	0.0	8	142	12.3	0.25	1.8	2.8	C	1
12	7611	4	5	34	3.30	33-	7.47	115-35.67	5.00	2.54	10	80	12.6	0.07	0.4	2.7	C	1
13	7611	4	5	44	59.82	33-	7.78	115-35.96	0.78	0.0	6	145	13.4	0.13	1.2	14.0	C	1
14	7611	4	5	48	20.75	33-	7.34	115-35.86	3.99	3.10	18	70	12.7	0.06	0.2	0.4	B	1
15	7611	4	5	56	49.23	33-	8.04	115-36.62	5.00	0.0	18	63	14.8	0.31	1.1	6.7	C	1
16	7611	4	5	57	20.00	33-	7.74	115-36.31	0.16	0.0	6	147	13.7	0.08	0.5	3.5	C	1
17	7611	4	5	57	45.24	33-	7.41	115-35.84	4.34	0.0	6	148	12.8	0.03	0.4	0.6	B	1
18	7611	4	5	58	32.75	33-	7.99	115-35.75	0.19	0.0	6	141	13.4	0.16	1.4	14.0	C	1
19	7611	4	6	1	48.90	33-	7.15	115-36.59	5.00	0.0	10	87	13.4	0.13	0.7	5.2	C	1
20	7611	4	6	3	29.38	33-	7.52	115-36.06	5.00	0.0	5	186	21.7	0.17	2.9	15.0	D	1
21	7611	4	6	7	15.88	33-	7.45	115-35.68	5.00	2.55	8	103	12.6	0.08	0.5	3.3	C	1
22	7611	4	6	8	7.39	33-	7.22	115-35.88	5.00	2.73	11	88	12.6	0.08	0.4	2.6	C	1
23	7611	4	6	9	50.93	33-	7.27	115-35.90	5.00	2.99	12	80	12.7	0.03	0.1	0.9	B	1
24	7611	4	6	12	32.23	33-	7.15	115-35.85	5.00	2.35	8	102	12.5	0.05	0.4	4.2	C	1
25	7611	4	6	35	3.47	33-	7.11	115-35.38	4.48	4.26	14	80	11.9	0.05	0.2	0.3	B	1
26	7611	4	6	38	39.30	33-	6.89	115-35.77	4.20	0.0	9	263	22.3	0.07	2.1	2.2	C	1
27	7611	4	6	45	14.98	33-	7.45	115-35.84	5.00	2.64	9	103	12.8	0.08	0.4	3.7	C	1
28	7611	4	6	56	54.58	33-	7.36	115-35.93	3.07	0.0	11	88	12.8	0.06	0.3	0.4	B	1
29	7611	4	6	58	9.29	33-	7.14	115-35.52	5.87	0.0	6	113	12.1	0.08	0.7	4.9	C	1
30	7611	4	7	1	16.25	33-	7.07	115-35.75	2.24	2.60	13	102	12.3	0.12	0.5	1.9	B	1
31	7611	4	7	6	38.59	33-	7.01	115-36.31	5.00	2.43	10	80	12.9	0.12	0.7	5.5	C	1
32	7611	4	7	14	35.11	33-	7.59	115-34.93	3.91	0.0	9	157	11.9	0.11	0.9	0.9	B	1
33	7611	4	7	18	19.03	33-	7.24	115-36.25	5.52	2.31	5	245	13.1	0.06	2.4	23.5	D	1
34	7611	4	7	29	12.85	33-	6.96	115-35.82	4.90	2.24	9	88	12.3	0.08	0.5	0.7	B	1
35	7611	4	7	29	37.21	33-	7.05	115-35.83	1.49	0.0	8	102	22.2	0.11	0.7	15.0	C	1
36	7611	4	7	35	43.76	33-	6.60	115-35.70	1.32	1.99	8	83	27.4	0.14	1.1	17.1	C	1
37	7611	4	7	39	42.84	33-	7.21	115-36.71	0.25	0.0	11	81	13.6	0.09	0.5	5.0	C	1
38	7611	4	7	48	11.03	33-	8.85	115-31.30	0.86	0.0	6	133	11.1	0.40	2.9	25.0	C	1
39	7611	4	7	56	6.81	33-	7.10	115-36.70	0.90	4.16	19	60	13.5	0.10	0.3	2.6	C	1
40	7611	4	8	2	3.63	33-	7.77	115-36.27	5.00	2.34	6	125	13.7	0.08	0.7	30.8	C	1
41	7611	4	8	7	12.22	33-	6.81	115-36.21	3.70	1.82	4	247	12.6	0.0			C	1
42	7611	4	8	9	53.15	33-	7.51	115-35.82	1.46	0.0	10	88	12.9	0.14	0.7	5.4	C	1
43	7611	4	8	11	33.08	33-	5.04	115-35.74	5.00	2.08	5	252	10.5	0.18	6.0	3.2	D	1
44	7611	4	8	14	9.31	33-	7.22	115-36.45	3.34	3.56	17	79	13.3	0.10	0.3	0.5	B	1
45	7611	4	8	17	4.57	33-	0.18	115-35.18	0.79	2.69	4	169	10.4	0.31			D	1
46	7611	4	8	22	42.76	33-	7.07	115-36.42	4.76	2.22	10	101	13.1	0.09	0.5	4.2	C	1
47	7611	4	8	23	20.54	33-	6.79	115-36.31	4.04	2.61	11	81	12.7	0.08	0.4	0.6	B	1
48	7611	4	8	28	3.44	33-12.19		115-37.97	1.72	0.0	8	126	8.9	0.36	2.5	3.7	C	1
49	7611	4	8	42	57.71	33-	6.64	115-36.00	5.00	2.40	9	100	12.1	0.10	0.7	8.3	C	1
50	7611	4	8	44	49.81	33-	6.42	115-35.82	4.11	1.91	8	100	11.7	0.04	0.3	0.4	B	1

Table V-1. (Continued)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
51	7611	4	8	47	48.65	33-	7.17	115-35.96	4.51	2.52	8	110	12.7	0.12	1.0	1.4	B	1
52	7611	4	9	6	51.83	33-	6.91	115-35.67	0.27	1.93	8	92	12.0	0.08	0.4	3.9	C	1
53	7611	4	9	7	48.04	33-	7.04	115-36.18	5.00	0.0	11	88	12.8	0.13	0.7	5.1	C	1
54	7611	4	9	8	29.57	33-	7.64	115-35.52	5.00	2.18	4	132	12.7	0.05			C	1
55	7611	4	9	21	4.59	33-	3.18	115-33.92	4.71	2.01	4	194	7.0	0.02			C	1
56	7611	4	9	28	50.75	33-	7.58	115-35.13	2.09	2.41	14	61	12.1	0.22	0.9	3.6	C	1
57	7611	4	9	31	31.32	33-	8.13	115-36.12	2.34	2.38	15	62	14.0	0.24	1.0	2.9	C	1
58	7611	4	9	42	36.91	33-	6.51	115-36.10	3.96	2.31	8	114	12.2	0.04	0.3	0.5	B	1
59	7611	4	9	45	36.55	33-	7.06	115-35.27	5.00	2.43	9	80	11.7	0.14	0.9	1.1	B	1
60	7611	4	9	50	29.82	33-	6.56	115-35.47	5.00	3.30	16	80	11.8	0.29	1.2	1.6	C	1
61	7611	4	9	52	34.85	33-	7.46	115-35.60	1.99	3.16	14	80	12.5	0.10	0.4	2.4	C	1
62	7611	4	10	4	39.46	33-	6.13	115-35.15	5.81	2.69	13	79	8.6	0.25	1.1	6.4	C	1
63	7611	4	10	7	51.12	33-	7.39	115-36.04	4.03	0.0	12	70	13.0	0.14	0.7	0.9	B	1
64	7611	4	10	11	51.25	33-	7.06	115-35.55	4.05	0.0	20	71	12.0	0.07	0.2	0.4	B	1
65	7611	4	10	16	10.71	33-	7.04	115-36.36	1.47	0.0	11	91	13.0	0.11	0.6	3.4	C	1
66	7611	4	10	20	33.03	33-	7.36	115-35.71	3.04	0.0	5	113	12.6	0.01	0.2	0.3	C	1
67	7611	4	10	27	31.39	33-	7.76	115-35.32	0.88	0.0	3	238	12.6	0.07			C	1
68	7611	4	10	29	37.59	33-	6.78	115-36.02	3.42	2.28	9	101	12.3	0.07	0.4	0.6	B	1
69	7611	4	10	32	35.23	33-	6.87	115-35.43	5.00	0.0	5	232	11.7	0.14	5.1	0.8	D	1
70	7611	4	10	34	25.17	33-	6.84	115-35.54	2.07	0.0	11	154	11.9	0.07	0.5	1.5	B	1
71	7611	4	10	41	37.53	33-	7.20	115-35.64	4.31	0.0	21	91	12.3	0.05	0.2	0.3	B	1
72	7611	4	10	54	40.48	33-	7.72	115-37.02	5.00	0.0	16	89	27.3	0.36	1.4	6.2	C	1
73	7611	4	10	58	44.08	33-	14.63	115-43.59	0.30	0.0	5	180	48.1	0.07	0.7	23.9	D	1
74	7611	4	11	3	15.92	33-	4.63	115-35.20	5.90	0.0	6	131	9.4	0.40	3.1	03.5	C	1
75	7611	4	11	3	55.65	33-	7.42	115-36.13	0.09	0.0	4	149	15.1	0.04			C	1
76	7611	4	11	8	5.27	33-	6.72	115-36.54	3.88	0.0	14	87	12.9	0.17	0.7	1.2	C	1
77	7611	4	11	9	59.64	33-	7.32	115-35.84	0.11	0.0	18	69	12.7	0.12	0.4	3.9	C	1
78	7611	4	11	17	18.82	33-	6.56	115-37.44	3.47	0.0	14	86	14.0	0.07	0.3	0.5	B	1
79	7611	4	11	20	8.74	33-	6.50	115-38.07	1.41	0.0	11	80	14.8	0.06	0.3	2.0	B	1
80	7611	4	11	22	51.31	33-	6.53	115-37.63	0.90	0.0	7	105	14.2	0.11	0.9	7.6	C	1
81	7611	4	11	23	39.06	33-	6.71	115-37.51	0.39	0.0	17	77	14.2	0.14	0.5	4.3	C	1
82	7611	4	11	24	19.50	33-	6.82	115-36.38	2.31	0.0	10	106	12.8	0.18	1.0	3.7	C	1
83	7611	4	11	28	12.46	33-	6.61	115-36.98	3.32	0.0	12	86	13.4	0.11	0.5	1.0	B	1
84	7611	4	11	31	31.09	33-	6.42	115-37.23	4.96	2.86	11	97	13.6	0.07	0.3	5.1	C	1
85	7611	4	11	34	39.92	33-	6.85	115-36.94	1.53	0.0	14	105	18.1	0.08	0.3	2.1	C	1
86	7611	4	11	39	8.36	33-	6.40	115-37.38	0.97	0.0	15	77	13.8	0.29	0.8	5.8	C	1
87	7611	4	11	44	40.73	33-	6.68	115-36.39	5.00	2.42	6	122	12.7	0.04	0.4	67.2	C	1
88	7611	4	11	45	24.70	33-	6.06	115-37.85	5.00	2.16	8	98	14.2	0.05	0.3	64.6	C	1
89	7611	4	11	47	59.95	33-	7.23	115-36.52	1.41	0.0	7	99	13.4	0.06	0.6	3.4	C	1
90	7611	4	11	49	40.62	33-	6.35	115-37.08	3.44	0.0	18	105	13.3	0.11	0.4	0.8	B	1
91	7611	4	11	55	12.84	33-	7.09	115-36.41	3.73	0.0	11	101	13.1	0.07	0.4	0.7	B	1
92	7611	4	11	55	52.69	33-	6.58	115-36.75	4.28	0.0	10	109	13.1	0.15	1.1	1.7	C	1
93	7611	4	11	59	18.88	33-	6.84	115-36.27	5.84	0.0	9	100	12.7	0.05	0.3	2.7	C	1
94	7611	4	12	0	29.34	33-	6.75	115-36.13	5.00	2.28	11	100	12.4	0.16	0.8	5.7	C	1
95	7611	4	12	4	46.41	33-	6.19	115-37.14	5.00	1.76	8	114	13.3	0.08	0.5	6.6	C	1
96	7611	4	12	9	0.30	33-	6.93	115-36.62	0.68	0.0	8	100	13.3	0.16	1.0	8.0	C	1
97	7611	4	12	11	55.40	33-	7.40	115-35.54	5.00	2.20	11	104	12.4	0.26	1.3	13.0	C	1
98	7611	4	12	13	11.73	33-	6.64	115-36.98	5.00	2.12	8	102	13.5	0.10	0.6	33.0	C	1
99	7611	4	12	19	57.78	33-	6.27	115-38.11	1.11	0.0	9	98	14.7	0.08	0.6	3.0	C	1
100	7611	4	12	23	27.87	33-	7.35	115-35.06	3.59	3.01	11	103	11.8	0.21	1.1	1.8	C	1

Table V-1. (Continued)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
101	7611	4	12	25	22.50	33-	6.70	115-36.33	5.00	0.0	5	196	12.6	0.06	1.2	39.6	D	1
102	7611	4	12	25	58.86	33-	6.44	115-37.63	2.18	2.88	9	100	14.2	0.11	0.6	2.7	C	1
103	7611	4	12	32	10.66	33-	7.58	115-35.89	2.37	2.05	9	102	13.0	0.10	0.7	2.8	C	1
104	7611	4	12	35	47.55	33-	6.24	115-36.61	4.04	0.0	6	240	12.6	0.08	2.4	1.1	C	1
105	7611	4	12	40	8.04	33-	6.65	115-35.95	5.00	0.0	12	88	12.1	0.05	0.3	0.4	B	1
106	7611	4	12	41	3.33	33-	0.47	115-39.52	0.27	0.0	6	140	16.4	0.20	0.8	4.4	C	1
107	7611	4	12	48	51.27	33-	7.03	115-35.85	5.00	2.16	6	194	12.4	0.02	0.2	28.9	D	1
108	7611	4	12	51	34.44	33-	7.08	115-36.51	1.17	0.0	10	91	13.3	0.05	0.3	2.2	C	1
109	7611	4	12	52	22.42	33-	6.98	115-36.15	5.00	3.02	12	88	12.7	0.03	0.1	0.9	B	1
110	7611	4	12	57	15.90	33-	6.21	115-36.27	4.60	2.65	11	91	12.1	0.11	0.7	0.9	B	1
111	7611	4	12	58	27.98	33-	6.83	115-36.35	5.00	0.0	6	197	12.8	0.03	0.4	51.9	D	1
112	7611	4	13	0	59.47	33-	6.55	115-35.58	3.70	2.99	12	101	11.5	0.07	0.4	0.6	B	1
113	7611	4	13	3	2.04	33-	6.70	115-37.41	0.55	0.0	12	101	14.1	0.08	0.3	2.9	C	1
114	7611	4	13	3	49.24	33-	7.68	115-35.52	1.72	0.0	8	144	12.7	0.03	0.2	1.2	B	1
115	7611	4	13	14	48.13	33-	6.22	115-37.57	3.92	2.58	9	99	13.9	0.12	0.8	1.2	B	1
116	7611	4	13	16	30.23	33-	6.91	115-37.02	0.76	0.0	9	88	13.8	0.08	0.4	4.5	C	1
117	7611	4	13	18	8.46	33-	6.12	115-36.34	4.22	2.15	8	104	14.2	0.11	1.0	1.5	B	1
118	7611	4	13	23	51.86	33-	6.87	115-35.36	5.00	2.12	8	186	11.6	0.05	0.5	0.5	C	1
119	7611	4	13	31	27.69	33-	6.27	115-37.36	3.69	4.47	19	83	13.7	0.07	0.3	0.5	B	1
120	7611	4	13	37	31.08	33-	6.48	115-37.63	1.04	2.55	11	85	14.2	0.06	0.2	1.4	B	1
121	7611	4	13	38	54.21	33-	3.97	115-35.02	8.57	0.0	13	126	8.8	0.44	2.1	2.6	C	1
122	7611	4	13	44	41.53	33-	0.94	115-46.09	5.00	2.40	5	164	8.5	0.18	3.9	6.1	D	1
123	7611	4	14	1	14.08	35-	7.09	115-36.39	6.03	3.37	15	98	13.1	0.09	0.4	0.7	B	1
124	7611	4	14	5	44.05	33-	6.91	115-35.77	5.00	2.55	6	185	12.1	0.05	0.6	74.6	D	1
125	7611	4	14	6	41.77	33-	2.92	115-40.10	1.68	2.15	5	168	17.9	0.02	0.7	2.2	C	1
126	7611	4	14	10	53.86	33-	6.05	115-36.16	1.65	0.0	8	137	11.8	0.03	0.3	1.5	B	1
127	7611	4	14	18	25.44	33-	6.47	115-36.61	3.98	0.0	12	99	12.8	0.16	0.8	1.2	C	1
128	7611	4	14	26	51.50	33-	6.13	115-37.67	2.64	3.16	11	112	14.0	0.07	0.4	1.6	B	1
129	7611	4	14	29	15.20	33-	7.21	115-35.68	5.00	0.0	7	131	12.4	0.07	0.5	4.2	C	1
130	7611	4	14	35	34.36	33-	7.05	115-36.70	3.62	3.02	12	87	13.5	0.05	0.3	0.5	B	1
131	7611	4	14	45	46.25	33-	7.53	115-35.09	4.23	0.0	12	97	12.0	0.17	0.9	1.4	C	1
132	7611	4	14	56	12.60	33-	7.45	115-35.92	5.00	2.93	14	80	12.9	0.08	0.3	2.1	C	1
133	7611	4	15	20	57.27	33-	6.77	115-36.63	0.93	2.42	7	140	13.1	0.34	3.0	25.3	C	1
134	7611	4	15	23	52.62	33-	6.10	115-37.17	5.00	0.0	6	179	13.3	0.10	1.4	67.1	C	1
135	7611	4	15	27	43.76	33-	7.01	115-36.88	3.35	2.90	11	105	13.7	0.09	0.5	0.9	B	1
136	7611	4	15	54	42.53	33-	11.93	115-39.68	5.00	0.0	6	213	10.6	0.19	2.0	0.6	C	1
137	7611	4	16	0	55.95	33-	5.81	115-36.18	7.21	0.0	7	218	11.6	0.06	1.4	0.6	C	1
138	7611	4	16	1	55.77	33-	6.83	115-36.08	6.66	0.0	8	180	18.0	0.02	0.3	0.3	B	1
139	7611	4	16	24	44.83	33-	4.75	115-41.70	0.39	0.0	9	116	18.3	0.09	0.3	3.1	C	1
140	7611	4	17	9	18.01	33-	9.05	115-36.88	3.93	2.81	14	88	14.0	0.09	0.4	0.6	B	1
141	7611	4	17	21	23.46	33-	6.07	115-37.49	5.00	2.42	7	115	13.7	0.06	0.5	5.4	C	1
142	7611	4	17	35	12.12	33-	6.66	115-37.52	3.38	2.66	13	73	14.2	0.09	0.5	0.9	B	1
143	7611	4	17	46	8.98	33-	8.90	115-37.14	3.86	2.52	12	80	14.4	0.05	0.3	0.5	B	1
144	7611	4	17	50	13.37	33-	7.09	115-36.77	2.17	2.75	11	104	13.6	0.09	0.6	2.6	C	1
145	7611	4	18	11	1.86	33-	6.97	115-36.66	2.47	2.90	14	106	13.3	0.08	0.3	1.2	B	1
146	7611	4	18	51	58.36	33-	6.68	115-36.74	3.79	3.60	16	102	13.2	0.09	0.4	0.6	B	1
147	7611	4	19	0	10.72	33-	6.88	115-36.54	3.81	2.71	15	79	13.1	0.09	0.4	0.7	B	1
148	7611	4	20	8	52.11	33-	6.12	115-36.62	5.00	2.43	9	114	12.5	0.09	0.5	4.2	C	1
149	7611	4	20	15	37.87	33-	6.43	115-37.92	0.49	2.60	9	112	14.6	0.09	0.5	4.2	C	1
150	7611	4	20	37	37.51	33-	6.82	115-36.93	2.01	2.85	14	86	13.5	0.07	0.3	1.1	B	1

Table V-1. (Continued)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q M
151	7611	4	20	57	40.83	33-	7.21	115-36.35	2.44	3.77	16	97	13.2	0.08	0.3	1.1	B 1
152	7611	4	21	31	24.00	33-	8.97	115-37.45	5.00	3.34	15	88	14.3	0.10	0.4	2.6	C 1
153	7611	4	21	33	28.24	33-	9.19	115-37.28	5.00	0.0	6	103	13.9	0.09	0.9	61.2	C 1
154	7611	4	22	24	23.61	33-	6.19	115-37.91	2.47	2.61	12	111	14.4	0.09	0.5	2.2	C 1
155	7611	4	22	28	59.66	33-	6.11	115-35.87	2.78	3.41	10	113	11.5	0.05	0.4	1.9	B 1
156	7611	4	22	36	5.30	33-	5.54	115-35.36	5.00	0.0	6	119	10.3	0.08	1.0	1.1	B 1
157	7611	4	23	7	41.72	33-	6.11	115-35.98	5.00	2.40	9	78	11.6	0.24	1.7	2.2	C 1
158	7611	4	23	53	38.10	33-	3.94	115-36.96	1.47	1.63	5	197	11.8	0.02	0.5	2.9	C 1
159	7611	5	0	28	21.80	33-	6.64	115-36.09	5.00	2.12	11	70	12.3	0.08	0.4	4.5	C 1
160	7611	5	0	37	5.27	33-	5.83	115-37.20	5.00	2.18	7	82	13.1	0.08	0.6	19.8	C 1
161	7611	5	0	58	8.14	33-	7.59	115-34.67	4.76	2.61	10	92	11.7	0.04	0.3	0.4	B 1
162	7611	5	1	26	36.23	33-	6.71	115-37.09	2.18	0.0	9	86	13.7	0.02	0.1	0.6	B 1
163	7611	5	1	38	4.50	33-	7.06	115-35.88	4.78	2.44	15	69	12.4	0.05	0.2	0.4	B 1
164	7611	5	1	40	45.89	33-	7.01	115-36.18	5.00	2.89	17	68	12.8	0.09	0.3	1.9	B 1
165	7611	5	3	51	31.34	33-	7.10	115-35.86	6.74	1.71	10	69	12.5	0.07	0.4	1.6	B 1
166	7611	5	4	27	5.81	33-	2.70	115-35.48	0.59	2.02	9	110	9.4	0.24	0.8	7.2	C 1
167	7611	5	5	21	52.55	33-	6.60	115-36.21	5.00	3.03	11	82	12.4	0.07	0.4	4.2	C 1
168	7611	5	5	34	0.19	33-	6.61	115-36.22	6.20	2.10	9	79	12.4	0.06	0.4	1.4	B 1
169	7611	5	5	34	21.27	33-	3.54	115-35.84	5.00	1.82	7	137	10.0	0.10	0.8	1.0	B 1
170	7611	5	8	7	57.48	33-	6.96	115-36.16	6.18	2.72	15	69	12.7	0.03	0.1	0.3	B 1
171	7611	5	8	24	52.86	33-	7.11	115-35.76	5.00	1.79	8	83	12.3	0.08	0.5	11.3	C 1
172	7611	5	9	16	24.58	33-	6.66	115-36.59	4.74	0.0	6	92	12.9	0.03	0.3	0.4	B 1
173	7611	5	10	23	25.45	33-	7.02	115-35.40	5.34	2.13	11	69	11.8	0.12	0.6	4.4	C 1
174	7611	5	10	27	52.33	33-	6.79	115-36.08	5.00	2.19	10	70	12.4	0.06	0.3	4.8	C 1
175	7611	5	12	34	26.41	33-	6.65	115-36.86	0.34	2.43	11	73	13.3	0.38	1.7	16.5	C 1
176	7611	5	12	48	9.45	33-	6.76	115-35.91	5.00	2.01	9	79	12.2	0.04	0.2	1.7	B 1
177	7611	5	12	52	7.00	33-	6.69	115-36.03	5.00	2.22	11	79	12.2	0.04	0.2	1.4	B 1
178	7611	5	14	1	13.93	33-	6.93	115-36.50	4.59	1.71	8	93	13.1	0.06	0.4	0.6	B 1
179	7611	5	18	51	44.29	33-	7.64	115-36.29	6.72	2.38	19	64	4.1	0.29	1.1	1.2	B 1
180	7611	5	20	46	12.34	32-53.34	115-29.54	5.00	1.83	8	116	18.0	0.11	0.8	6.3	C 1	
181	7611	5	20	51	46.46	33-	7.17	115-36.59	0.93	2.80	18	62	4.0	0.23	0.4	0.9	B 1
182	7611	5	21	9	30.53	33-	6.31	115-37.24	5.28	2.92	21	75	2.1	0.16	0.5	0.3	B 1
183	7611	5	23	3	37.91	33-	7.39	115-34.96	5.24	1.89	12	114	5.5	0.08	0.4	0.4	B 1
184	7611	6	2	13	24.41	33-	7.39	115-35.16	3.05	2.05	22	52	2.3	0.11	0.3	0.3	A 1
185	7611	6	3	6	54.38	33-	7.11	115-36.05	4.57	1.37	10	64	6.4	0.05	0.2	0.2	B 1
186	7611	6	3	42	27.89	33-	7.00	115-36.20	3.04	1.41	15	58	3.2	0.06	0.2	0.3	A 1
187	7611	6	5	2	34.60	33-	7.17	115-36.41	8.31	1.54	14	62	4.1	0.33	1.4	2.3	B 1
188	7611	6	5	3	59.01	33-11.43	115-37.12	4.64	1.43	12	118	3.1	0.08	0.4	0.3	B 1	
189	7611	6	5	43	17.87	33-	6.49	115-37.51	4.07	0.96	10	68	6.6	0.03	0.2	0.2	B 1
190	7611	6	5	51	40.19	33-	6.52	115-37.30	4.27	1.92	23	50	2.4	0.14	0.4	0.3	A 1
191	7611	6	5	54	59.99	33-	6.67	115-36.26	4.44	1.39	13	67	6.9	0.04	0.1	0.1	B 1
192	7611	6	11	43	4.05	33-	7.07	115-36.10	4.76	1.84	19	59	3.3	0.05	0.2	0.1	A 1
193	7611	6	12	14	59.58	33-	7.19	115-37.12	3.51	1.93	20	64	3.7	0.29	0.8	0.9	B 1
194	7611	6	12	27	54.76	33-	7.47	115-36.38	3.87	1.85	21	55	4.0	0.29	0.7	0.8	B 1
195	7611	6	16	28	47.49	33-	6.85	115-38.42	6.22	0.0	4	201	3.0	0.01			C 1
196	7611	6	17	3	48.84	33-	7.52	115-35.07	2.09	2.39	20	80	2.2	0.14	0.3	0.4	A 1
197	7611	6	16	5	47.13	33-	7.27	115-36.36	6.59	2.15	24	96	3.7	0.24	0.7	0.9	B 1
198	7611	6	19	20	26.53	33-	7.50	115-36.25	4.36	1.48	12	95	4.1	0.07	0.3	0.2	B 1
199	7611	6	21	40	57.25	33-	6.84	115-36.20	4.50	1.85	11	99	6.7	0.03	0.1	0.1	B 1
200	7611	7	1	47	50.21	33-	6.41	115-37.65	4.06	1.45	15	70	2.1	0.07	0.3	0.2	A 1

Table V-1. (Continued)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	EKH	ERZ	Q	M
201	7611	7	1	59	44.94	33-	6.32	115-37.63	3.85	1.17	18	69	1.9	0.11	0.4	0.3	A	1
202	7611	7	2	33	46.95	32-	47.98	115-29.02	9.44	0.0	11	137	8.2	0.10	0.8	0.8	B	1
203	7611	7	2	56	8.96	32-	47.69	115-28.63	9.41	2.44	20	119	8.3	0.11	0.5	0.6	B	1
204	7611	7	6	1	33.53	33-	6.77	115-36.74	4.66	0.79	13	64	6.5	0.03	0.1	0.1	B	1
205	7611	7	6	57	19.73	33-	4.55	115-36.38	5.00	0.0	5	168	1.4	0.22	6.7	2.8	D	1
206	7611	7	13	52	45.90	33-	7.37	115-36.16	2.01	1.73	19	53	3.8	0.09	0.2	0.2	A	1
207	7611	7	13	58	45.57	33-	7.05	115-35.02	9.44	0.0	4	133	2.0	0.06			C	1
208	7611	7	14	4	44.64	33-	7.25	115-36.07	2.45	2.09	20	52	3.6	0.08	0.2	0.2	A	1
209	7611	7	19	16	17.62	33-	7.17	115-35.94	5.45	0.96	13	64	6.4	0.11	0.3	0.3	B	1
210	7611	7	19	56	58.05	33-	4.84	115-36.58	5.00	0.0	5	158	0.9	0.06	1.0	0.8	C	1
211	7611	7	21	20	19.66	33-	6.75	115-36.61	3.82	1.15	17	57	2.8	0.10	0.3	0.3	A	1
212	7611	8	0	23	50.74	33-	7.70	115-35.25	2.33	1.86	21	58	2.6	0.16	0.4	0.4	B	1
213	7611	8	5	55	55.57	33-	5.38	115-34.38	5.00	0.0	7	137	2.2	0.31	2.4	3.2	C	1
214	7611	8	6	36	19.17	33-	4.48	115-34.76	5.00	0.0	7	144	2.8	0.29	2.3	3.6	C	1
215	7611	8	17	1	2.12	33-	3.72	115-40.92	3.93	1.96	7	146	7.6	0.06	0.4	0.5	B	1
216	7611	8	17	4	43.18	33-	3.25	115-40.84	0.96	2.45	20	57	6.0	0.09	0.3	1.3	B	1
217	7611	8	23	36	5.48	33-	6.89	115-36.04	5.00	1.06	12	96	6.7	0.12	0.5	0.5	B	1
218	7611	9	8	43	14.28	33-	7.09	115-35.47	4.59	1.81	14	65	6.5	0.04	0.2	0.2	B	1
219	7611	10	0	9	58.71	33-	7.30	115-35.95	4.37	2.28	16	63	6.2	0.06	0.2	0.2	B	1
220	7611	10	7	55	3.10	33-	7.48	115-35.11	4.20	0.71	12	61	5.7	0.06	0.2	0.2	B	1
221	7611	10	14	37	24.70	33-	9.76	115-37.84	5.08	2.58	17	88	0.8	0.07	0.3	0.2	A	1
222	7611	10	15	48	59.74	33-	7.15	115-35.96	4.36	2.54	15	94	6.4	0.04	0.1	0.1	B	1
223	7611	10	17	6	9.88	33-	6.86	115-36.56	4.78	2.07	13	104	6.4	0.04	0.2	0.2	B	1
224	7611	10	18	39	29.12	33-	6.98	115-35.63	4.81	2.02	8	130	6.8	0.03	0.2	0.2	B	1
225	7611	10	19	22	0.47	33-	7.41	115-35.44	4.51	0.36	8	143	6.2	0.07	0.5	0.4	B	1
226	7611	10	20	38	43.20	33-	6.13	115-37.78	4.24	2.65	15	118	7.3	0.05	0.2	0.2	B	1
227	7611	10	20	43	9.82	33-	6.35	115-37.52	5.00	2.41	13	118	6.9	0.23	1.0	0.9	B	1
228	7611	10	22	13	13.26	33-	6.30	115-37.67	3.96	3.12	19	62	7.0	0.09	0.3	0.3	B	1
229	7611	11	1	17	38.42	33-	9.65	115-38.30	5.00	1.26	9	108	0.7	0.14	1.0	0.5	B	1
230	7611	11	3	21	48.51	33-	9.81	115-38.19	5.00	3.18	24	65	0.4	0.07	0.2	0.2	A	1
231	7611	11	3	30	7.70	33-	9.80	115-38.30	5.00	2.42	15	112	0.5	0.09	0.4	0.2	B	1
232	7611	11	3	31	50.70	33-	9.99	115-38.30	5.00	1.42	13	114	0.2	0.09	0.4	0.2	B	1
233	7611	11	5	33	37.87	33-	9.85	115-38.12	5.00	2.12	16	77	0.4	0.09	0.3	0.2	A	1
234	7611	11	6	7	50.39	33-	7.47	115-35.58	2.05	1.69	14	62	6.3	0.04	0.1	0.2	B	1
235	7611	11	7	21	12.02	33-	7.05	115-35.96	4.54	1.37	12	67	6.5	0.05	0.2	0.2	B	1
236	7611	11	7	56	28.98	33-	10.14	115-38.30	5.00	0.92	11	114	0.2	0.07	0.4	0.2	B	1
237	7611	11	11	51	46.01	33-	9.89	115-38.30	5.00	1.64	14	113	0.3	0.10	0.4	0.3	B	1
238	7611	11	14	3	18.30	33-	9.80	115-37.84	5.00	1.42	12	83	0.7	0.07	0.4	0.2	A	1
239	7611	11	14	53	26.20	33-	9.84	115-37.90	4.84	1.92	12	83	0.6	0.06	0.3	0.2	A	1
240	7611	11	18	13	51.85	33-	9.58	115-37.69	5.00	1.95	7	98	1.2	0.06	0.5	0.3	B	1
241	7611	12	2	11	43.57	33-	9.93	115-37.82	4.28	2.07	13	87	0.6	0.08	0.4	0.2	A	1
242	7611	12	3	39	8.65	33-	3.17	115-36.32	3.68	1.86	12	103	4.5	0.05	0.2	0.2	B	1
243	7611	12	3	40	36.58	33-	3.27	115-36.25	3.71	2.21	15	102	4.7	0.08	0.3	0.3	B	1
244	7611	12	12	18	32.06	33-	9.99	115-37.42	4.12	1.22	9	99	1.2	0.05	0.3	0.2	B	1
245	7611	12	14	42	56.85	33-	9.64	115-38.14	5.16	1.60	12	89	0.7	0.05	0.3	0.2	A	1
246	7611	12	19	1	15.72	33-	9.51	115-37.96	5.22	2.00	13	73	1.1	0.09	0.4	0.3	A	1
247	7611	12	20	4	48.88	33-	9.26	115-37.68	5.00	1.83	11	73	1.6	0.09	0.5	0.3	A	1
248	7611	13	3	39	19.58	33-	9.88	115-38.14	4.76	1.91	16	53	0.3	0.07	0.3	0.2	A	1
249	7611	13	6	26	16.67	33-	9.78	115-38.30	5.00	1.86	13	87	0.5	0.08	0.4	0.3	A	1
250	7611	13	8	20	14.26	33-	10.14	115-37.41	5.00	0.93	8	110	1.2	0.07	0.5	0.2	B	1

Table V-1. (Continued)

	Y	N	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
251	761113	8	23	19.85	33-	9.59	115-37.92	4.82	1.24	14	75	0.9	0.10	0.4	0.3	A	1	
252	761113	8	31	10.11	33-10.14	115-37.36	5.03	1.25	8	110	1.3	0.04	0.3	0.1	B	1		
253	761113	12	57	55.18	33-	9.65	115-38.00	5.00	2.01	18	56	0.8	0.10	0.4	0.2	A	1	
254	761113	13	3	15.53	33-	9.60	115-38.09	5.39	2.07	19	44	0.8	0.09	0.3	0.2	A	1	
255	761113	15	30	27.66	33-10.14	115-38.30	5.00	1.44	12	114	0.2	0.08	0.4	0.2	B	1		
256	761113	18	38	58.80	33-10.04	115-37.66	4.76	2.46	19	58	0.8	0.10	0.3	0.3	A	1		
257	761113	21	18	13.71	33-10.14	115-37.43	5.00	1.26	10	112	1.2	0.18	1.2	0.5	B	1		
258	761113	21	18	29.76	33-10.34	115-37.37	4.59	1.43	5	127	1.4	0.04	0.6	0.3	C	1		
259	761114	4	41	8.91	33-	6.34	115-37.38	4.65	1.38	14	66	7.0	0.03	0.1	0.1	B	1	
260	761114	5	18	20.65	33-10.01	115-37.76	4.83	1.74	14	102	0.7	0.08	0.3	0.2	B	1		
261	761114	7	30	21.65	33-10.39	115-37.61	5.11	1.19	12	114	1.1	0.06	0.3	0.2	B	1		
262	761114	7	43	17.51	33-10.47	115-37.63	5.23	1.44	12	115	1.2	0.09	0.5	0.2	B	1		
263	761114	7	48	49.08	33-10.47	115-37.74	5.22	0.34	9	115	1.1	0.05	0.4	0.2	B	1		
264	761114	8	4	24.10	33-10.38	115-37.52	4.82	2.73	24	42	1.2	0.08	0.2	0.2	A	1		
265	761114	8	38	25.37	33-10.51	115-37.52	5.00	2.44	16	88	1.4	0.08	0.3	0.2	A	1		
266	761114	9	44	58.85	33-10.33	115-37.88	5.00	2.11	15	115	0.7	0.09	0.4	0.2	B	1		
267	761114	10	51	13.19	33-10.56	115-37.40	4.92	1.86	13	114	1.6	0.09	0.4	0.3	B	1		
268	761114	13	2	6.19	33-10.67	115-37.61	4.71	1.69	12	116	1.5	0.08	0.4	0.3	B	1		
269	761114	13	10	20.17	33-	9.88	115-38.05	4.47	2.40	19	43	0.4	0.09	0.3	0.3	A	1	
270	761114	13	13	35.43	33-10.52	115-37.67	4.67	3.37	25	53	1.2	0.09	0.2	0.2	A	1		
271	761114	16	16	1.55	33-	6.85	115-36.23	4.20	1.95	11	69	6.7	0.02	0.1	0.1	B	1	
272	761114	22	26	4.91	33-11.01	115-38.00	5.20	0.94	8	119	1.8	0.06	0.5	0.2	B	1		
273	761114	22	56	37.08	33-10.64	115-37.91	4.54	0.69	6	162	1.2	0.01	0.2	0.1	B	1		
274	761115	0	18	40.40	32-59.56	115-32.16	6.03	2.20	15	58	7.8	0.15	0.6	2.3	B	1		
275	761115	0	25	28.53	32-59.32	115-31.91	4.44	2.36	16	58	7.9	0.15	0.6	0.8	B	1		
276	761115	0	27	10.36	32-59.22	115-31.91	3.94	2.54	16	58	8.1	0.08	0.3	0.5	B	1		
277	761115	0	33	14.92	32-59.43	115-32.10	4.46	2.49	17	63	7.9	0.09	0.3	0.4	B	1		
278	761115	1	19	6.50	32-59.38	115-32.32	4.12	1.37	12	88	8.2	0.08	0.4	0.4	B	1		
279	761115	1	19	59.56	33-	9.84	115-38.16	4.85	2.55	19	60	0.4	0.09	0.3	0.2	A	1	
280	761115	1	35	26.16	33-10.63	115-37.67	4.72	2.39	16	116	1.4	0.15	0.7	0.4	B	1		
281	761115	1	43	59.16	33-10.60	115-37.87	4.62	3.05	18	58	1.2	0.09	0.3	0.2	B	1		
282	761115	2	29	14.05	33-10.58	115-37.63	4.79	1.89	14	116	1.3	0.06	0.3	0.2	B	1		
283	761115	3	14	44.56	33-10.49	115-37.80	4.69	2.14	16	116	1.0	0.07	0.3	0.2	B	1		
284	761115	3	17	33.85	33-10.45	115-37.73	4.75	1.83	14	115	1.0	0.07	0.3	0.2	B	1		
285	761115	3	53	53.42	33-11.99	115-41.65	0.71	1.31	9	184	6.5	0.46	2.7	11.8	D	1		
286	761115	4	26	2.14	33-10.54	115-37.95	4.43	1.26	12	116	1.0	0.07	0.4	0.2	B	1		
287	761115	9	9	12.96	33-	3.15	115-36.21	3.19	1.69	11	104	4.5	0.08	0.4	0.5	B	1	
288	761115	12	51	6.58	33-	3.16	115-36.29	3.44	1.18	7	140	4.5	0.04	0.3	0.3	B	1	
289	761115	16	55	25.43	32-58.53	115-49.77	7.45	0.0	7	235	19.8	0.24	4.4	6.7	D	1		
290	761116	0	41	2.54	33-11.51	115-30.99	7.25	0.80	8	87	5.8	0.06	0.5	2.0	A	1		
291	761116	6	6	30.90	33-	9.86	115-37.89	4.74	1.36	12	72	0.6	0.10	0.5	0.3	A	1	
292	761116	13	53	20.99	33-	9.87	115-38.09	4.71	2.48	17	55	0.4	0.07	0.3	0.2	A	1	
293	761116	14	40	23.00	33-	9.76	115-38.05	5.00	1.72	12	85	0.6	0.09	0.4	0.3	A	1	
294	761116	16	11	18.01	33-	9.91	115-38.14	4.81	2.57	13	74	0.3	0.10	0.4	0.3	A	1	
295	761116	20	55	4.67	33-	6.95	115-36.48	2.60	1.97	11	64	6.3	0.04	0.2	0.6	B	1	
296	761117	4	40	13.86	32-59.31	115-33.54	5.18	1.87	12	62	6.6	0.09	0.4	0.4	B	1		
297	761117	17	40	25.37	33-	9.59	115-38.30	5.19	2.11	11	116	0.9	0.06	0.3	0.2	B	1	
298	761117	17	50	24.08	33-10.14	115-38.77	5.00	1.84	11	116	0.9	0.22	1.6	0.8	B	1		
299	761117	19	19	34.19	33-	9.59	115-37.68	5.00	1.93	11	87	1.2	0.06	0.3	0.2	A	1	
300	761117	20	11	4.07	33-10.14	115-39.02	5.00	1.53	8	122	1.3	0.12	1.1	0.5	B	1		

Table V-1. (Continued)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
301	761117	20	23	59.55	33-	9.83	115-38.30	5.37	1.87	13	94	0.4	0.06	0.3	0.2	B	1	
302	761117	20	37	55.54	33-	9.58	115-37.91	5.24	1.78	14	67	1.0	0.08	0.3	0.2	A	1	
303	761118	7	49	3.57	33-	13.68	115-38.78	5.40	2.65	26	43	6.8	0.11	0.3	0.3	B	1	
304	761118	8	33	57.60	33-	7.95	115-35.93	4.32	0.84	13	61	5.2	0.08	0.3	0.3	B	1	
305	761118	16	18	12.90	33-	10.07	115-38.22	5.00	2.55	19	66	0.1	0.08	0.3	0.2	A	1	
306	761119	0	49	52.33	33-	9.69	115-38.17	5.00	2.42	21	65	0.7	0.14	0.4	0.3	A	1	
307	761120	4	18	38.95	33-	7.11	115-35.98	4.38	0.84	11	64	6.4	0.05	0.2	0.2	B	1	
308	761120	8	2	37.41	33-	6.73	115-36.48	4.29	0.71	9	103	6.7	0.03	0.1	0.2	B	1	
309	761123	12	16	31.62	33-	9.27	115-38.00	4.76	1.68	14	80	1.5	0.08	0.3	0.3	A	1	
310	761126	0	47	21.66	33-	7.33	115-35.86	5.46	2.36	24	63	6.9	0.05	0.1	0.2	B	1	
311	7612 3	18	3	1.21	33-	18.62	115-41.23	5.00	0.0	8	154	16.5	0.07	0.6	95.6	C	1	
312	7612 4	5	37	30.64	33-	6.84	115-36.00	4.64	1.57	14	67	6.8	0.04	0.1	0.1	B	1	
313	7612 6	13	18	33.48	32-	46.52	115-25.80	9.53	1.89	7	218	9.6	0.10	1.4	2.4	C	1	
314	7612 7	14	54	53.67	32-	46.79	115-25.83	9.66	2.19	11	120	9.1	0.16	0.9	1.0	B	1	
315	7612 9	10	40	12.40	33-	6.60	115-35.93	5.07	0.0	9	91	7.5	0.04	0.2	0.2	B	1	
316	761211	10	51	38.40	32-	46.62	115-31.82	5.74	2.41	12	122	12.9	0.15	0.7	6.4	C	1	
317	761212	4	5	26.60	33-	0.21	115-28.79	1.15	2.54	17	50	5.4	0.07	0.2	0.3	B	1	
318	761213	5	11	52.73	32-	48.59	115-27.12	9.87	1.32	9	109	5.9	0.09	0.6	1.1	B	1	
319	761216	22	59	23.11	32-	49.73	115-35.07	9.52	1.92	11	97	14.3	0.05	0.3	0.4	B	1	
320	761217	1	3	33.38	33-	13.22	115-39.53	5.00	2.48	19	70	6.2	0.11	0.4	0.4	B	1	
321	761217	6	40	28.90	33-	13.36	115-39.86	3.39	1.67	15	54	6.7	0.15	0.7	0.9	B	1	
322	761217	9	47	50.85	32-	56.00	115-31.66	5.00	1.48	12	85	11.6	0.09	0.5	0.8	B	1	
323	761218	2	12	23.71	33-	13.80	115-39.95	4.57	0.0	10	142	7.5	0.15	1.3	1.0	C	1	
324	761218	9	3	14.03	33-	13.50	115-39.25	5.30	2.18	16	116	6.6	0.09	0.4	0.3	B	1	
325	761218	17	43	59.57	33-	13.61	115-38.95	4.92	3.47	30	43	6.7	0.14	0.4	0.4	B	1	
326	761218	20	1	46.26	33-	13.50	115-39.18	4.26	2.37	20	53	6.6	0.10	0.4	0.3	B	1	
327	761219	4	47	3.67	32-	45.78	115-25.84	5.26	1.66	17	129	11.0	0.15	0.6	0.7	C	1	
328	761219	5	7	23.26	32-	45.92	115-25.81	9.37	1.71	17	128	10.7	0.14	0.5	0.7	B	1	
329	761219	9	38	18.03	33-	15.38	115-39.87	3.85	1.92	16	95	7.0	0.16	0.7	0.7	B	1	
330	761219	9	44	0.90	33-	15.50	115-39.66	2.84	2.58	19	59	10.3	0.09	0.4	1.9	B	1	
331	761219	9	46	57.60	33-	15.46	115-39.55	4.52	2.61	28	41	6.5	0.14	0.4	0.5	B	1	
332	761219	9	49	57.29	33-	15.67	115-39.36	5.62	2.92	28	41	6.1	0.12	0.3	0.4	B	1	
333	761219	9	55	18.19	33-	15.50	115-39.36	5.88	2.62	28	41	6.2	0.12	0.3	0.4	B	1	
334	761219	10	6	24.95	33-	15.70	115-39.57	4.56	2.30	23	52	6.4	0.12	0.4	0.4	B	1	
335	761219	10	8	2.68	33-	15.64	115-39.75	4.44	2.43	24	50	6.7	0.14	0.4	0.4	B	1	
336	761219	10	9	15.96	33-	14.44	115-38.27	7.16	2.40	17	86	5.7	0.45	1.9	3.4	B	1	
337	761220	8	6	16.85	33-	6.89	115-35.37	4.94	0.71	13	68	6.5	0.09	0.3	0.3	B	1	
338	761220	8	32	41.02	32-	47.50	115-27.04	9.24	0.65	11	116	7.9	0.08	0.5	0.7	B	1	
339	761220	8	53	25.64	33-	13.35	115-39.30	4.66	1.24	15	133	6.4	0.11	0.5	0.4	B	1	
340	761220	19	54	21.96	33-	13.94	115-39.28	3.66	2.94	18	87	7.4	0.32	1.3	1.4	C	1	
341	761220	23	10	6.97	33-	13.83	115-37.89	4.13	1.95	8	168	6.2	0.18	1.8	1.0	C	1	
342	761222	9	41	16.26	33-	14.18	115-39.17	4.99	1.51	14	69	7.1	0.14	0.6	0.5	B	1	
343	761223	4	5	46.33	33-	9.53	115-38.30	4.57	0.0	14	80	1.0	0.10	0.4	0.3	A	1	
344	761224	5	40	39.51	33-	13.61	115-39.26	4.39	1.15	10	163	6.8	0.08	0.6	0.4	B	1	
345	761224	11	22	33.46	33-	9.74	115-38.30	4.61	0.34	11	110	0.6	0.23	1.6	0.6	B	1	
346	761224	11	36	11.68	32-	54.33	115-31.66	4.80	1.49	17	79	9.8	0.31	1.1	1.5	C	1	
347	761224	11	41	2.60	32-	55.00	115-30.88	8.22	1.04	7	165	9.5	0.20	1.9	5.2	C	1	
348	761224	13	31	13.78	33-	14.13	115-38.96	5.09	2.08	19	110	6.9	0.11	0.4	0.3	B	1	
349	761224	15	13	58.05	32-	47.25	115-31.68	6.43	2.35	16	117	11.9	0.21	0.8	2.3	B	1	
350	761224	23	10	44.56	32-	47.22	115-31.95	9.51	1.42	15	117	12.2	0.15	0.7	0.9	B	1	

Table V-1. (Concluded)

	Y	M	D	H	M	SEC	LAT	LONG	DEP	MAG	N	GAP	DM	RMS	ERH	ERZ	Q	M
351	761224	23	10	57.46	32-47.43	115-31.39	10.63	2.76	15	140	11.3	0.22	1.1	1.6	C	1		
352	761224	23	13	0.70	32-47.52	115-32.12	5.10	2.46	23	114	12.0	0.14	0.4	3.5	C	1		
353	761224	23	18	41.62	32-47.22	115-31.79	8.42	3.41	27	117	12.0	0.16	0.5	0.8	B	1		
354	761224	23	39	51.32	32-47.78	115-32.54	5.00	1.56	7	157	12.3	0.12	1.1	78.0	C	1		
355	761225	-1	59	58.63	32-47.29	115-31.80	9.73	2.33	16	117	12.0	0.11	0.5	0.6	B	1		
356	761225	4	45	47.28	33- 9.35	115-37.98	4.41	1.45	15	78	1.3	0.07	0.3	0.2	A	1		
357	761225	5	25	33.20	32-47.00	115-31.60	7.02	1.96	16	119	12.1	0.16	0.7	1.5	B	1		
358	761225	9	15	50.86	33- 9.09	115-37.99	4.41	1.56	16	60	1.8	0.08	0.3	0.3	A	1		
359	761225	10	44	7.00	33- 9.27	115-38.23	4.05	1.83	19	83	1.4	0.10	0.3	0.2	A	1		
360	761225	16	27	52.56	33- 9.28	115-38.18	4.33	1.82	15	62	1.4	0.08	0.3	0.2	A	1		
361	761226	1	4	1.01	33-14.81	115-40.00	3.16	1.98	14	60	7.6	0.23	1.0	1.3	B	1		
362	761226	1	14	50.98	33-12.72	115-40.13	3.25	0.0	11	101	5.8	0.07	0.3	0.4	B	1		
363	761226	10	33	12.59	33- 7.27	115-35.82	5.56	1.64	14	65	6.3	0.07	0.3	0.2	B	1		
364	761227	2	51	29.30	33- 9.45	115-38.30	4.69	1.69	9	101	1.1	0.08	0.5	0.3	B	1		
365	761227	23	57	45.07	32-47.27	115-31.73	6.43	2.11	12	117	11.9	0.16	0.9	1.7	B	1		
END OF JOB																		

SOCIOECONOMIC EFFECTS

Element Leader: Charles H. Hall
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-5006

Commercial: (415) 447-1100 Ext. 5006

Socioeconomic data from various sources have been included in the IVEP Data Base. A full description of the data and their sources has been published.⁴ Table VI-1 is a list of the parameters included. Table VI-2 contains 1972 employment information for 81 selected Standard Industrial Code (SIC) sectors for Imperial County and the State of California. Table VI-3 lists 1970 Census information for Imperial County and the State. Table VI-4 contains data on the 1975-1976 Imperial County budget allocations. The latter data are presented both in terms of total dollar budget and in terms of a calculated per capita budget.

Table VI-1. List and definition of social and economic parameters included in the IVEP Data Base.

SOCIAL AND ECONOMIC PARAMETER LISTING

NOTE: □CO□ = COUNTY
□PC□ = PER CAPITA

• PARAMETER •	• PARAMETER DESCRIPTION •
CO \$-CON/RE	CONT. & RESERVE
CO \$-COURTS	PUBLIC PROTECTION
CO \$-DEBTSE	DEBT SERVICES
CO \$-EDUC	EDUCATION
CO \$-FIRE	PUBLIC PROTECTION
CO \$-GADMIN	GENERAL ADMINISTRATION
CO \$-GGV/PA	GEN. GOV. & PLANT ACQ.
CO \$-H/SANI	HEALTH, SANITATION
CO \$-HEALTH	HEALTH
CO \$-P-ASST	PUBLIC ASSISTANCE
CO \$-P-PROT	COURTS, POLICE, FIRE
CO \$-P-WAYS	PUBLIC WAYS & FACILITIES
CO \$-PLTACQ	PLANT ACQUISITION
CO \$-POLICE	PUBLIC PROTECTION
CO \$-RECRE	RECREATION
CO \$-SANI	SANITATION
CO \$-TOTAL	TOTAL BUDGET
COPCS-CON/RE	CONT. & RESERVE
COPCS-COURTS	PUBLIC PROTECTION
COPCS-DEBTSE	DEBT SERVICES
COPCS-EDUC	EDUCATION
COPCS-FIRE	PUBLIC PROTECTION
COPCS-GADMIN	GENERAL ADMINISTRATION
COPCS-GGV/PA	GEN. GOV. & PLANT ACQ.
COPCS-H/SANI	HEALTH, SANITATION
COPCS-HEALTH	HEALTH
COPCS-P-ASST	PUBLIC ASSISTANCE
COPCS-P-PROT	COURTS, POLICE, FIRE
COPCS-P-WAYS	PUBLIC WAYS & FACILITIES
COPCS-PLTACQ	PLANT ACQUISITION
COPCS-POLICE	PUBLIC PROTECTION
COPCS-RECRE	RECREATION
COPCS-SANI	SANITATION
COPCS-TOTAL	TOTAL BUDGET
ED-A:00-07YR	ADULT EDUCATION
ED-A:08 YR	ADULT EDUCATION
ED-A:09-11YR	ADULT EDUCATION
ED-A:12 YR	ADULT EDUCATION
ED-A:13-15YR	ADULT EDUCATION
ED-A:16+ YR	ADULT EDUCATION
IN-F:00-04K\$	FAMILY INCOME
IN-F:04-06K\$	FAMILY INCOME
IN-F:06-08K\$	FAMILY INCOME
IN-F:08-10K\$	FAMILY INCOME
IN-F:10-15K\$	FAMILY INCOME

IN-F:15-25KS
IN-F:25+ KS
IN-I:00-04KS
IN-I:04-06KS
IN-I:06-08KS
IN-I:08-10KS
IN-I:10-15KS
IN-I:15+ KS
POP:AMER-IND
POP:BLACK
POP:CHINESE
POP:CO TOTAL
POP:FILIPINO
POP:JAPANESE
POP:OTHER
POP:SP-AMER
POP:WHITE
POP:00-13 YR
POP:14-17 YR
POP:18-24 YR
POP:25-34 YR
POP:35-44 YR
POP:45-54 YR
POP:55-64 YR
POP:64+ YR
POVERTY:FAMS
POVERTY:INDS
SECT 0
SECT 100
SECT 200
SECT 300
SECT 800
SECT 900
SECT 1000
SECT 1300
SECT 1381
SECT 1382
SECT 1500
SECT 1600
SECT 1700
SECT 2000
SECT 2010
SECT 2030
SECT 2040
SECT 2060
SECT 2090
SECT 2200
SECT 2400
SECT 2500
SECT 2600
SECT 2700
SECT 2800
SECT 2870
SECT 2900
SECT 3000
SECT 3200
SECT 3300
SECT 3400
SECT 3520
SECT 3530

[illegible]

SECT 3600
SECT 3700
SECT 3800
SECT 3900
SECT 4100
SECT 4150
SECT 4200
SECT 4221
SECT 4500
SECT 4600
SECT 4700
SECT 4800
SECT 4900
SECT 4931
SECT 4940
SECT 4950
SECT 4970
SECT 5010
SECT 5040
SECT 5050
SECT 5200
SECT 5300
SECT 5400
SECT 5500
SECT 5600
SECT 5700
SECT 5800
SECT 5900
SECT 6000
SECT 6500
SECT 7010
SECT 7030
SECT 7200
SECT 7300
SECT 7512
SECT 7800
SECT 7900
SECT 7940
SECT 8000
SECT 8060
SECT 8200
SECT 8600
SECT 10000
SECT 10700
SECT 15000
SECT 19000
SECT 40000
SECT 50000
SECT 52000
SECT 60000
SECT 70000

Table VI-2. 1972 employment in 81 selected Standard Industrial Code (SIC) sectors for Imperial County and the State. Only activities covered by state employee compensation are included.

EMPLOYMENT SECTOR	IMPERIAL COUNTY	CALIFORNIA STATE
SECT 0	13635	5589019
SECT 100	6840	274340
SECT 200	6500	242070
SECT 300	340	32450
SECT 800	0	524
SECT 900	0	1864
SECT 1000	0	1228
SECT 1300	0	16386
SECT 1381	0	2048
SECT 1382	0	522
SECT 1500	153	83839
SECT 1600	151	62280
SECT 1700	316	166859
SECT 2000	490	143191
SECT 2010	0	15490
SECT 2030	0	45816
SECT 2040	165	6133
SECT 2060	139	3854
SECT 2090	0	15658
SECT 2200	0	12655
SECT 2400	136	47755
SECT 2500	0	39888
SECT 2600	0	34305
SECT 2700	150	88680
SECT 2800	108	47941
SECT 2870	103	2897
SECT 2900	0	15358
SECT 3000	0	44718
SECT 3200	451	49553
SECT 3300	0	48650
SECT 3400	0	106511
SECT 3520	0	2331
SECT 3530	0	13380
SECT 3600	0	192906
SECT 3700	0	196661
SECT 3800	0	34922
SECT 3900	48	33702
SECT 4100	117	29733
SECT 4150	0	2636
SECT 4200	351	90958
SECT 4221	139	851
SECT 4500	0	62057
SECT 4600	0	871
SECT 4700	20	14552
SECT 4800	283	142177
SECT 4900	1271	60407
SECT 4931	100	24510
SECT 4940	0	3147
SECT 4950	32	6061
SECT 4970	1139	274

Table VI-2. (Concluded)

SECT 5010	0	36078
SECT 5040	558	66011
SECT 5050	240	2766
SECT 5200	313	38165
SECT 5300	600	205448
SECT 5400	682	161124
SECT 5500	985	185062
SECT 5600	432	70072
SECT 5700	125	47380
SECT 5800	910	317559
SECT 5900	517	134559
SECT 6000	310	119372
SECT 6500	87	90916
SECT 7010	326	66990
SECT 7030	0	5462
SECT 7200	280	95014
SECT 7300	184	211526
SECT 7512	0	4682
SECT 7800	0	52995
SECT 7900	89	58687
SECT 7940	0	37499
SECT 8000	359	330060
SECT 8060	0	142177
SECT 8200	0	31376
SECT 8600	261	103515
SECT 10000	16	29038
SECT 10700	681	27436
SECT 15000	620	315454
SECT 19000	1475	1500869
SECT 40000	2042	420558
SECT 50000	1422	397471
SECT 52000	4586	1199209
SECT 60000	624	420051
SECT 70000	2050	1217195

Table VI-3. 1970 Census data for Imperial County and the State of California.

SOCIAL CENSUS	IMPERIAL COUNTY	CALIFORNIA STATE
POP: TOTAL	74492	19953134
POP:00-13 YR	23918	5140376
POP:14-17 YR	7251	1517023
POP:18-24 YR	7072	2424333
POP:25-34 YR	8363	2664863
POP:35-44 YR	8368	2368576
POP:45-54 YR	7682	2324106
POP:55-64 YR	6245	1711533
POP:64+ YR	5575	1806905
POP:AMER-IND	889	91018
POP:BLACK	2586	1400143
POP:CHINESE	412	170131
POP:FILIPINO	731	138859
POP:JAPANESE	206	213280
POP:OTHER	862	178671
POP:SP-AMER	34260	3101589
POP:WHITE	68806	17761032
ED-A:00-07YR	10305	1197277
ED-A:08 YR	4152	953235
ED-A:09-11YR	6179	1911855
ED-A:12 YR	8924	3566578
ED-A:13-15YR	4029	1784772
ED-A:16+ YR	2662	1462266
IN-F:00-04K\$	3086	619484
IN-F:04-06K\$	2588	465188
IN-F:06-08K\$	2630	558620
IN-F:08-10K\$	2316	624520
IN-F:10-15K\$	3952	1398973
IN-F:15-25K\$	2102	1029394
IN-F:25+ K\$	587	305076
IN-I:00-04K\$	3256	1329664
IN-I:04-06K\$	548	316309
IN-I:06-08K\$	377	260871
IN-I:08-10K\$	243	166534
IN-I:10-15K\$	203	175146
IN-I:15+ K\$	101	78975
POVERTY:FAMS	2781	421200
POVERTY:INDS	1692	563218

Table VI-4. 1975-1976 Imperial County budget allocations.

CO. BUDGET TOTAL	IMPERIAL COUNTY
CO \$-CON/RE	780755
CO \$-COURTS	1652959
CO \$-DEBTSE	0
CO \$-EDUC	410064
CO \$-FIRE	746850
CO \$-GADMIN	11422185
CO \$-GGV/PA	3939217
CO \$-H/SANI	2532347
CO \$-HEALTH	2112101
CO \$-P-ASST	11641922
CO \$-P-PROT	7861455
CO \$-P-WAYS	3742385
CO \$-PLTACQ	7482968
CO \$-POLICE	1715332
CO \$-RECRE	331438
CO \$-SANI	420246
CO \$-TOTAL	38722551

CO. BUDGET PER CAPITA	IMPERIAL COUNTY
COPCS-CON/RE	10
COPCS-COURTS	22
COPCS-DEBTSE	0
COPCS-EDUC	6
COPCS-FIRE	10
COPCS-GADMIN	153
COPCS-GGV/PA	53
COPCS-H/SANI	34
COPCS-HEALTH	28
COPCS-P-ASST	156
COPCS-P-PROT	106
COPCS-P-WAYS	50
COPCS-PLTACQ	100
COPCS-POLICE	23
COPCS-RECRE	4
COPCS-SANI	6
COPCS-TOTAL	520

REMOTELY SENSED DATA

LLL Contact: O. Dean Cornett
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, California 94550

FTS: 457-4927
Commercial: (415) 447-1100
Ext. 4927

EG&G Project Leader: Jerry G. Lackey
EG&G Inc.
680 East Sunset Road
Las Vegas, Nevada 89119

FTS: 598-0251
Commercial: (702) 739-0251

The capability for data acquisition by the use of airborne remote sensing techniques is provided to the Imperial Valley Environmental Project by EG&G, Inc. This capability is provided as part of EG&G's integrated service contract with the U. S. Energy Research and Development Administration. Scientific planning for remote sensing operations is carried out in cooperation with personnel from the Lawrence Livermore Laboratory.

Three types of remote sensing data acquisition systems are routinely used. The systems are (1) a large format aerial mapping camera system, (2) a four-camera multispectral camera system, and (3) a thermal infrared scanning system. As improved technology becomes available these systems will be supplemented or replaced by improved systems.

Equipment Description

1. Large Format Camera System

The large format camera system consists of a Wild RC-8 or Wild RC-10 aerial camera with accessory view finder and camera control system. The camera produces a 9 x 9 inch aerial photograph of mapping quality. This camera is equipped with a lens of 6-inch focal length and provides a field of view whose length is approximately 1.5 times the altitude of the carrying aircraft. This system is normally operated at medium to high altitudes and with normal aerial color film. Photography is normally carried out with 60% forward overlap to provide photographs suitable for stereo viewing. Data produced by this system are useful wherever a geometrically-accurate record with high spatial resolution and normal color representation are desired.

2. Multispectral Camera System

The multispectral camera system consists of an array of four 70 mm 500 EL Hasselblad cameras with accessory view-finding and camera control equipment. These cameras are mounted so as to have parallel optical axes and produce simultaneous exposures on a film format of 55 x 55 mm. When equipped with a lens of 50 mm focal length, this system provides a field of view slightly longer along each edge than the altitude of the carrying aircraft. This system is usually operated at medium or low altitude. Between 10 and 80% overlap of coverage is usually provided between frames. By proper selection of film type and lens filter, the system can cover any four wavelength bands in the spectrum from visible to near-infrared (400 nm to 900 nm). Four bands that are frequently recorded are the following:

Normal color (w/haze filter)	400 to 700 nm.
Infrared color (w/yellow filter)	500 to 900 nm.
Panchromatic (w/red filter)	600 to 700 nm.
Infrared black and white (w/infrared filter)	700 to 900 nm.

This system produces photographs of high quality but with more limited resolution than the large format camera system. Use is indicated whenever comparative information relative to spectral properties of surface objects is useful. Data produced by this system are useful for evaluating the state of growth and health of agricultural and other plants.

3. Thermal Infrared Mapping System

The thermal infrared mapping system consists of a Bendix Thermal Mapper Model LN-3. The unit consists of an optical-mechanical

device that scans an area approximately 100 degrees wide beneath the aircraft as it moves in a forward direction. The system is ordinarily used with a detector that is sensitive to radiation in the 8 to 12.5 μm region. Temperature differences as small as 0.5°C can be detected by this instrument. The records produced can be considered to be a map of the apparent black body temperature of the surface. Recording is on a continuous strip of 70 mm film. Because of the nature of the system, the records produced are afflicted with several types of geometric distortion. This system is used at all altitudes depending on the resolution and coverage desired.

Recovery of Photographic Data

All image-type airborne remote sensing data acquired in support of the Imperial Valley Environmental Project are stored in and available from the EG&G film storage vault. Each piece of photographic data has a number permanently assigned to it by means of a perforating stamp. This permanently assigned number is referred to as the EG&G Perforation Number or simply "Perf. No." Where applicable a frame number is also assigned. The basic scheme for recalling photographic originals from storage in order to produce prints is to specify the perforation number and frame number of the photographic material involved.

Several flights involving the use of the three types of equipment have been made in Imperial Valley. A complete catalog of this information is in preparation, and will be available in a few months. In the meantime, a few draft copies of this catalog are available for short-term use by interested parties. The intent of the array of catalog sheets is to provide information

necessary to determine the pertinent perforation and frame numbers so that the desired data may be recalled from storage.

Two types of catalog sheets are to be provided. One type is tabular in nature, the other is in the form of a graphic display. The tabular catalog sheets provide a listing of the parameters of the flight and equipment used. They give reference information such as perforation numbers and frame numbers and pertinent comments about the location and intended use of the data.

The graphic catalog sheets present information in the form of a shingle mosaic of the image data as well as a location map and other relevant data.

By proper use of the catalog sheets all interested users may determine which data are pertinent to their needs. Once relevant perforation and frame numbers are determined, this information may be used to order prints or for the purpose of visually inspecting original materials at the EG&G Las Vegas Facilities.

Radiometric Data

A few flights have also been made with radiation detection equipment in order to record baseline levels of terrestrial radiation. These data will be reported in a separate EG&G publication.

MEASUREMENTS OF RADIOACTIVITY

LLL Investigator: Paul L. Phelps
Environmental Sciences Division
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

FTS: 457-4921
Commercial: (415) 447-1100 Ext. 4921

During June 1975, baseline measurements were made of terrestrial radioactivity and concentrations in ambient air of short-lived daughter radio-nuclides of ^{222}Rn .

Terrestrial radioactivity measurements were performed using the technique of field spectrometry with a Ge(Li) diode.¹¹ Results are presented in Table VIII-1.

Concentrations in ambient air of short-lived daughters of ^{222}Rn were done using the modified Tsivoglou method as described by Thomas.¹² The results of these measurements are given in Table VIII-2.

VIII-4

TABLE VIII-1. RESULTS OF MEASUREMENTS OF TERRESTRIAL RADIONUCLIDES IN IMPERIAL VALLEY BY FIELD SPECTROMETRY WITH A GE(LI) DIODE.

SPECTRUM NO. 1472

BUREC EAST MESA WELL 6-1 750610 I.C. 1 = 8.90 UR/HR.

RADIO- NUCLIDE	 CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.598E+01		4.292E-01	2.860E+00	7.682E-02
90 TH 232	6.112E-01		3.245E-02	1.724E+00	9.152E-02
92 U 238	7.212E-01		4.036E-02	1.313E+00	7.346E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				5.896E+00	1.403E-01
TOTAL EXTERNAL EXPOSURE RATE				5.896E+00	1.403E-01

SPECTRUM NO. 1473

BUREC EAST MESA WELL 31-1 750610 I.C. 1 = 10.67 UR/HR.

RADIO- NUCLIDE	 CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	2.038E+01		4.956E-01	3.648E+00	8.872E-02
90 TH 232	1.167E+00		3.927E-02	3.292E+00	1.107E-01
92 U 238	1.118E+00		4.813E-02	2.035E+00	8.760E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				8.974E+00	1.668E-01
TOTAL EXTERNAL EXPOSURE RATE				8.974E+00	1.668E-01

VIII-5

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1474
300 FT NW OF WELL 31-1 750610 I.C. 1 = 8.33 UR/HR.

RADIO- NUCLIDE	CONCENTRATION		SIGMA	EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER		MICRO-R PER HOUR	SIGMA
19 K 40	1.501E+01		4.164E-01	2.686E+00	7.453E-02
90 TH 232	5.515E-01		3.026E-02	1.555E+00	8.534E-02
92 U 238	5.894E-01		3.736E-02	1.073E+00	6.800E-02
55 CS 137		1.597E+01	4.129E+00	5.107E-02	1.320E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				5.314E+00	1.321E-01
TOTAL EXTERNAL EXPOSURE RATE				5.365E+00	1.328E-01

SPECTRUM NO. 1475
POWER LINE AT FRONTAGE RD 750610 I.C. 1 = 8.96 UR/HR.

RADIO- NUCLIDE	CONCENTRATION		SIGMA	EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER		MICRO-R PER HOUR	SIGMA
19 K 40	1.461E+01		2.851E-01	2.615E+00	5.104E-02
90 TH 232	8.323E-01		3.561E-02	2.347E+00	1.004E-01
92 U 238	8.400E-01		4.100E-02	1.529E+00	7.463E-02
55 CS 137		1.097E+01	3.960E+00	3.507E-02	1.266E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				6.491E+00	1.351E-01
TOTAL EXTERNAL EXPOSURE RATE				6.526E+00	1.357E-01

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1476

HEBER AREA SILZLE WELL 1 750610 I.C. 1 = 10.24 UR/HR.

RADIO- NUCLIDE	CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.595E+01		4.363E-01	2.854E+00	7.810E-02
90 TH 232	1.046E+00		4.039E-02	2.949E+00	1.139E-01
92 U 238	1.024E+00		4.654E-02	1.864E+00	8.471E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				7.668E+00	1.620E-01
TOTAL EXTERNAL EXPOSURE RATE				7.668E+00	1.620E-01

SPECTRUM NO. 1477

HEBER AREA NOWLIN WELL 1 750610 I.C. 1 = 9.28 UR/HR.

RADIO- NUCLIDE	CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.465E+01		4.159E-01	2.622E+00	7.445E-02
90 TH 232	7.984E-01		3.633E-02	2.251E+00	1.025E-01
92 U 238	6.998E-01		3.991E-02	1.274E+00	7.264E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				6.147E+00	1.460E-01
TOTAL EXTERNAL EXPOSURE RATE				6.147E+00	1.460E-01

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1478

HEBER J.D. JACKSON WELL 1 750610 I.C. 1 = 9.37 UR/HR.

RADIO- NUCLIDE	CONCENTRATION	EXTERNAL EXPOSURE RATE
NANO-CI / KILOGRAM	NANO-CI / SQ. METER	MICRO-R PER HOUR
SIGMA	SIGMA	SIGMA
19 K 40	1.402E+01	4.088E-01
90 TH 232	8.406E-01	3.587E-02
92 U 238	8.333E-01	4.112E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES		6.397E+00
TOTAL EXTERNAL EXPOSURE RATE		1.455E-01

SPECTRUM NO. 1479

LYONS AND DREW ROADS

750610 I.C. 1 = 9.03 UR/HR.

RADIO- NUCLIDE	CONCENTRATION	EXTERNAL EXPOSURE RATE
NANO-CI / KILOGRAM	NANO-CI / SQ. METER	MICRO-R PER HOUR
SIGMA	SIGMA	SIGMA
19 K 40	1.358E+01	3.985E-01
90 TH 232	7.668E-01	3.477E-02
92 U 238	7.221E-01	3.954E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES		5.907E+00
TOTAL EXTERNAL EXPOSURE RATE		1.410E-01

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1481

DKW DUCK CLUB, NR BRAWLEY 750611 I.C. 1 = 10.80 UR/HR.

RADIO- NUCLIDE	CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.589E+01		4.343E-01	2.845E+00	7.774E-02
90 TH 232	1.144E+00		4.126E-02	3.227E+00	1.164E-01
92 U 238	1.142E+00		4.901E-02	2.079E+00	8.920E-02
55 CS 137		1.035E+01	4.355E+00	3.310E-02	1.393E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				8.151E+00	1.660E-01
TOTAL EXTERNAL EXPOSURE RATE				8.184E+00	1.665E-01

SPECTRUM NO. 1482

NR. BRAWLEY VEYSEY WELL 2 750611 I.C. 1 = 9.76 UR/HR.

RADIO- NUCLIDE	CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.567E+01		4.298E-01	2.805E+00	7.694E-02
90 TH 232	8.015E-01		3.606E-02	2.260E+00	1.017E-01
92 U 238	8.446E-01		4.227E-02	1.537E+00	7.693E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				6.602E+00	1.489E-01
TOTAL EXTERNAL EXPOSURE RATE				6.602E+00	1.489E-01

VIII-9

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1483

NR. BRAWLEY VEYSEY WELL 1 750611 I.C. 1 = 10.84 UR/HR.

RADIO- NUCLIDE *****	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM *****	NANO-CI / SQ. METER *****	SIGMA *****	MICRO-R PER HOUR *****	SIGMA *****
19 K 40	1.772E+01		4.619E-01	3.172E+00	8.267E-02
90 TH 232	1.081E+00		4.044E-02	3.048E+00	1.140E-01
92 U 238	1.087E+00		4.726E-02	1.978E+00	8.601E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				8.199E+00	1.650E-01
TOTAL EXTERNAL EXPOSURE RATE				8.199E+00	1.650E-01

SPECTRUM NO. 1484

SALTON S. MAISSON'S SPA 750611 I.C. 1 = 9.08 UR/HR.

RADIO- NUCLIDE *****	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM *****	NANO-CI / SQ. METER *****	SIGMA *****	MICRO-R PER HOUR *****	SIGMA *****
19 K 40	1.003E+01		3.458E-01	1.795E+00	6.191E-02
90 TH 232	8.759E-01		3.627E-02	2.470E+00	1.023E-01
92 U 238	9.527E-01		4.143E-02	1.734E+00	7.541E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				5.999E+00	1.414E-01
TOTAL EXTERNAL EXPOSURE RATE				5.999E+00	1.414E-01

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1485

SALTON S. RED HILL MARINA 750611 I.C. 1 = 15.07 UR/HR.

RADIO- NUCLIDE	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
*****	*****	*****	*****	*****	*****
19 K 40	2.507E+01		5.569E-01	4.488E+00	9.968E-02
90 TH 232	1.694E+00		5.948E-02	4.776E+00	1.677E-01
92 U 238	2.035E+00		6.551E-02	3.704E+00	1.192E-01
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				1.297E+01	2.287E-01
TOTAL EXTERNAL EXPOSURE RATE				1.297E+01	2.287E-01

SPECTRUM NO. 1486

NR. SALTON S STATE WELL 1 750611 I.C. 1 = 12.96 UR/HR.

RADIO- NUCLIDE	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
*****	*****	*****	*****	*****	*****
19 K 40	2.047E+01		5.009E-01	3.664E+00	8.966E-02
90 TH 232	1.528E+00		4.809E-02	4.310E+00	1.356E-01
92 U 238	1.796E+00		5.743E-02	3.268E+00	1.045E-01
55 CS 137		1.012E+01	5.018E+00	3.236E-02	1.605E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				1.124E+01	1.933E-01
TOTAL EXTERNAL EXPOSURE RATE				1.127E+01	1.939E-01

VIII-11

TABLE VIII-1. (CONTINUED)

SPECTRUM NO. 1488
IMPERIAL VALLEY COLLEGE 750612 I.C. 1 = 9.57 UR/HR.

RADIO- NUCLIDE	 CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.403E+01		4.082E-01	2.512E+00	7.307E-02
90 TH 232	9.088E-01		3.668E-02	2.563E+00	1.034E-01
92 U 238	8.392E-01		4.194E-02	1.527E+00	7.633E-02
55 CS 137		1.403E+01	4.364E+00	4.487E-02	1.396E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				6.602E+00	1.479E-01
TOTAL EXTERNAL EXPOSURE RATE				6.647E+00	1.485E-01

SPECTRUM NO. 1489
WELL SINCLAIR 4 DIKE 750612 I.C. 1 = 12.24 UR/HR.

RADIO- NUCLIDE	 CONCENTRATION			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM	NANO-CI / SQ. METER	SIGMA	MICRO-R PER HOUR	SIGMA
19 K 40	1.980E+01		4.963E-01	3.544E+00	8.884E-02
90 TH 232	1.216E+00		4.435E-02	3.430E+00	1.251E-01
92 U 238	1.270E+00		5.227E-02	2.311E+00	9.514E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				9.285E+00	1.805E-01
TOTAL EXTERNAL EXPOSURE RATE				9.285E+00	1.805E-01

TABLE VIII-1. (CONCLUDED)

SPECTRUM NO. 1490
WELL SINCLAIR 4 PIT

750612 I.C. 1 = 23.26 UR/HR.

RADIO- NUCLIDE *****	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM *****	NANO-CI / SQ. METER *****	SIGMA *****	MICRO-R PER HOUR *****	SIGMA *****
19 K 40	7.891E+01		9.525E-01	1.413E+01	1.705E-01
90 TH 232	1.422E+00		5.816E-02	4.010E+00	1.640E-01
92 U 238	1.536E+00		6.913E-02	2.795E+00	1.258E-01
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				2.093E+01	2.679E-01
TOTAL EXTERNAL EXPOSURE RATE				2.093E+01	2.679E-01

SPECTRUM NO. 1491
WELL WOOLSEY 1

750612 I.C. 1 = 10.84 UR/HR.

RADIO- NUCLIDE *****	***** CONCENTRATION *****			EXTERNAL EXPOSURE RATE	
	NANO-CI / KILOGRAM *****	NANO-CI / SQ. METER *****	SIGMA *****	MICRO-R PER HOUR *****	SIGMA *****
19 K 40	1.682E+01		4.474E-01	3.011E+00	8.008E-02
90 TH 232	1.167E+00		4.297E-02	3.291E+00	1.212E-01
92 U 238	1.148E+00		4.772E-02	2.090E+00	8.686E-02
SUBTOTAL EXTERNAL EXPOSURE RATE DUE TO NATURALLY OCCURRING RADIONUCLIDES				8.391E+00	1.692E-01
TOTAL EXTERNAL EXPOSURE RATE				8.391E+00	1.692E-01

TABLE VIII-2. MEASUREMENTS OF THE CONCENTRATIONS IN AMBIENT AIR OF THE THREE SHORT-LIVED DAUGHTER RADIONUCLIDES OF RADON-222. ALL MEASUREMENTS REPORTED BELOW WERE MADE IN THE IMPERIAL VALLEY.

SAMP NO.	LOCATION / ID	DATE	TIME	HT.	*WIND*	*RA A CONC.*	*RA B CONC.*	*RA C CONC.*	**RATIO**	WORKING
		YYMMDD	HRMN	IN.	SP DIR	PCI/L FSD	PCI/L FSD	PCI/L FSD	A: B: C	LEVEL
0001	BUREC EAST MESA WELL 6-1	750610	0844		2 090	0.05 0.332	0.05 0.118	0.04 0.156	1: 1: 1	0.00042
0002	BUREC EAST MESA WELL 31-1	750610	0945		3 225	0.03 0.585	0.04 0.133	0.05 0.127	1: 1: 1	0.00044
0003	300 FT NW OF WELL 31-1	750610	1035		3 135	0.08 0.243	0.06 0.101	0.04 0.178	2: 2: 1	0.00054
0004	POWER LINE AT FRONTAGE RD	750610	1145		3 90	0.04 0.545	0.06 0.117	0.06 0.116	1: 1: 1	0.00056
0005	HEBER AREA SILZLE WELL 1	750610	1415		0	0.05 0.398	0.05 0.118	0.05 0.130	1: 1: 1	0.00052
0006	HEBER AREA NOWLIN WELL 1	750610	1535		0	0.08 0.268	0.06 0.104	0.04 0.167	2: 2: 1	0.00054
0007	HEBER J.D. JACKSON WELL 1	750610	1635		0	0.09 0.220	0.06 0.100	0.04 0.188	3: 2: 1	0.00054
0008	LYONS AND DREW ROADS	750610	1735		0	0.05 0.358	0.05 0.116	0.04 0.157	1: 1: 1	0.00046
0009	DKH DUCK CLUB, NR BRAWLEY	750611	0830		3 225	0.18 0.209	0.19 0.060	0.16 0.076	1: 1: 1	0.00176
0010	NR. BRAWLEY VEYSEY WELL 2	750611	0935		2 225	0.06 0.374	0.06 0.112	0.06 0.120	1: 1: 1	0.00059
0011	NR. BRAWLEY VEYSEY WELL 1	750611	1105		2 315	0.11 0.211	0.07 0.099	0.06 0.133	2: 1: 1	0.00070
0012	SALTON S. MAISSON'S SPA	750611	1325		6 315	0.03 0.644	0.06 0.119	0.08 0.100	0: 1: 1	0.00061
0013	SALTON S. RED HILL MARINA	750611	1415		0	0.04 0.610	0.06 0.109	0.07 0.115	1: 1: 1	0.00060
0014	NR. SALTON S STATE WELL 1	750611	1510		7 315	0.03 0.790	0.06 0.119	0.07 0.104	0: 1: 1	0.00060
0015	IMPERIAL VALLEY COUNTRY C	750611	2035		0	0.19 0.153	0.15 0.061	0.10 0.102	2: 2: 1	0.00134
0016	IMPERIAL VALLEY COUNTRY C	750612	0630		0	0.41 0.118	0.38 0.040	0.32 0.050	1: 1: 1	0.00354
0017	IMPERIAL VALLEY COLLEGE	750612	0820		0	0.16 0.239	0.17 0.068	0.19 0.064	1: 1: 1	0.00174
0018	WELL SINCLAIR 4 DIKE	750612	1020		0	0.21 0.174	0.20 0.058	0.16 0.076	1: 1: 1	0.00184
0019	WELL SINCLAIR 4 PIT	750612	1130		0	0.07 0.393	0.09 0.094	0.11 0.084	1: 1: 1	0.00095
0020	WELL WOOLSEY 1	750612	1220		5 315	0.06 0.355	0.06 0.110	0.06 0.130	1: 1: 1	0.00058

IX-1

REFERENCES

C

C

1. L. R. Anspaugh, N. B. Crow, P. H. Gudiksen, K. F. Haven, P. L. Phelps, K. D. Pimentel, W. L. Robison, and J. H. Shinn, Plan for the Long-Term Assessment of Environmental Quality in Imperial Valley, California, in Relationship to the Development of Geothermal Resources, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-52248 (in press).
2. P. L. Phelps and L. R. Anspaugh, Eds., Imperial Valley Environmental Project: Progress Report, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-50044-76-1 (1976).
3. P. L. Phelps, Ed., Imperial Valley Environmental Project: Summary of Plans for Sample Collection and Analysis, Lawrence Livermore Laboratory, Livermore, Rept. UCID- (in press).
4. D. W. Layton and D. L. Ermak, Eds., A Description of Imperial Valley, California, for the Assessment of Impacts of Geothermal Energy Development, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-52121 (1976).
5. J. H. Shinn, B. R. Clegg, M. L. Stuart, and S. E. Thompson, "Exposures of Field-Grown Lettuce to Geothermal Air Pollution--Photosynthetic and Stomatal Responses," J. Environ. Sci. Health, A11, 603-612 (1976).
6. D. W. Layton, "Water Supply Dilemmas of Geothermal Development in the Imperial Valley of California," Water Resources Bulletin (in press).
7. J. H. Shinn, Ed., Potential Effects of Geothermal Development on Imperial Valley Ecosystems, Proceedings of the First Workshop on Integrated Assessment of Ecosystem Quality, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-52196 (in press).
8. D. L. Ermak, Scenario for Geothermal Electric Power Development in Imperial Valley, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-52252 (in press).
9. J. R. Kercher, Grow 1: A Crop Growth Model for Assessing the Impacts of Gaseous Pollutants from Geothermal Technologies, Lawrence Livermore Laboratory, Livermore, Rept. UCRL-52247 (in press).
10. B. E. Lofgren, "Measuring Ground Movement in Geothermal Areas of Imperial Valley, California," Proc. Conf. Res. Dev. Geothermal Energy Resources, Pasadena, California, September 23-25, 1974, National Science Foundation, Washington, Rept. NSF-RA-N-74-159, pp. 128-138 (1974).
11. L. R. Anspaugh, "In Situ Methods for Quantifying Specific Radionuclides," IEEE Trans. NS-23, 1190-1196 (1976).
12. J. W. Thomas, "Measurement of Radon Daughters in Air," Health Phys. 23, 783-789 (1972).

NOTICE

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research & Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately-owned rights.

NOTICE

Reference to a company or product name does not imply approval or recommendation of the product by the University of California or the U.S. Energy Research & Development Administration to the exclusion of others that may be suitable.