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ORIENTATION STUDY: JASPER AND HAMPTON COUNTIES, SOUTH CAROLINA

NATIONAL URANIUM RESOURCE EVALUATION PROGRAM

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Aiken, SC 29808**

PREPARED FOR THE U. S. DEPARTMENT OF ENERGY UNDER CONTRACT DE-AC09-76SR00001

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Publication Date: August 1982

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ABSTRACT

This abbreviated data report presents results of a ground water and stream sediment orientation study in Jasper and Hampton Counties in southeastern South Carolina. Stream sediment samples were taken at 92 sites and sieved into four fractions for subsequent analysis. Surface water samples were taken at 68 of these sites. Ground water samples were collected at 108 sites. Neutron activation analysis results are given for uranium and nine other elements in ground water samples. Mass spectrometry results are given for helium in ground water samples. Field measurements and observations are reported for each site. Analytical data and field measurements are presented in tables and maps.

Data for sediment samples include (1) water chemistry measurements from sites where water was available (pH, conductivity, and alkalinity), and (2) elemental analyses for sediment samples (U, Th, Hf, Al, Ce, Dy, Eu, Fe, La, Lu, Mn, Na, Sc, Sm, Ti, V, and Yb). Sample site descriptors such as stream characteristics and vegetation are also tabulated.

Data for ground water samples include (1) water chemistry measurements (pH, conductivity, and alkalinity), (2) physical measurements, where applicable (water temperature, well description, and scintillometer reading), and (3) elemental analyses (U, Br, Cl, Dy, F, Mg, Mn, Na, and V). Helium analyses are given for ground water samples.

Key data for surface water samples include (1) water quality measurements (pH, conductivity, and alkalinity) and (2) elemental analyses (U, Al, Br, Cl, Dy, F, Mg, Mn, Na, and V).

The report is issued in draft form, without detailed technical and copy editing. This was done to make the report available to the public before the end of the National Uranium Resource Evaluation.

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ORIENTATION STUDY: JASPER AND HAMPTON COUNTIES, SOUTH CAROLINA

INTRODUCTION

The National Uranium Resource Evaluation (NURE) was established to evaluate uranium resources in the United States and to identify areas favorable for uranium exploration. The Grand Junction Office (GJO) of the U. S. Department of Energy (DOE) was responsible for administering the program. The Savannah River Laboratory (SRL) was responsible for hydrogeochemical and stream sediment reconnaissance of 3.9 million square kilometers (1.5 million square miles) in 37 eastern and western states.

This paper presents raw data from an orientation study in the area of Jasper, South Carolina, in parts of Jasper and Hampton Counties (Fig. 1). The area has been referred to geologically as the Charleston Phosphate District. The study was suggested to SRL and the samples were collected by Jacqueline Michel of the Geology Department, University of South Carolina.

FACTORS AFFECTING THE DATA

General

The samples for this study were collected in July and August, 1977. Ninety-two stream sediment samples and 68 surface water samples were collected within the Jasper-Hampton study area. The nominal sampling density for sediment samples was about one sample per 2 square miles. Sediment samples were sieved in the field to obtain four size fractions for subsequent elemental analysis. Figure 2 is a site location map for surface and ground water samples.

Sample Collection

Sampling teams located each sampling site on South Carolina State Highway maps of Jasper and Hampton Counties (scale: 1 inch = 2 miles). At least five percent of the sample sites were routinely checked by SRL personnel or a specified subcontractor to assure that the reported locations were accurate. Based on these quality assurance checks, about 97 percent of the sampled sites were judged to be located as accurately as they could be plotted on county road maps. No evidence was discovered of deliberate malfeasance by the sampling teams. Most sites that were mapped incorrectly were within 100 meters of their correct location. Details of the quality assurance program are given elsewhere (SRL-138).

Analytical Standards

Sediment Standards SRL 2.2, 3.1, and 4.1 were analyzed along with NURE sediment samples. Analyses of these standards provide routine checks of the analytical equipment and software. Tables 1a, 1b, and 1c contain the results from the standards and are representative of analytical precision.

ELEMENTAL ANALYSES

The concentration of each element is reported in parts per million (ppm) by weight for sediment samples and in parts per billion (ppb) for water samples. Note that elemental (not oxide) concentrations are given in the tables. Values below detection limits are indicated by a minus (-). For example, -3 means that the sample contains less than 3 ppm of that element. If background is high, a period (.) is used to indicate that the element was not detected and that the detection limit was not estimated for that element. Missing data are indicated by "M." All analytical results are omitted when there was not enough sample for analysis.

DESCRIPTION OF DATA TABLES

This section of the report summarizes the type of data presented in tables. Ground water field measurements, analyses, and site descriptors are given in Tables A-1 and A-2. Sediment analyses and site descriptors are given in Tables B-1, B-2, and B-3. Surface water measurements and elemental analyses are given in Table C-1.

Each entry in Table A-1 begins with the sample's SRL identification number, which is composed of four letters and a three-digit number. The first two letters are YY, indicating that these are orientation study samples. The second set of two letters is JA, which is a code for the Jasper-Hampton study area.

Other entries in Table A-1 include latitude and longitude of the site (in decimal degrees); pH; conductivity (measured in micromhos per centimeter); alkalinity (milliequivalents of sulfuric acid to titrate 1 liter of sample to a pH of about 4.5); neutron activation analyses for U, Br, Cl, F, Mn, Na, and V (ppb); and the ratio $(U \times 1000)/\text{conductivity}$. Normally, pH will be in the range of 4.0 to 9.5; values far outside that range may indicate pollution or instrument malfunction. Helium is reported in standard cubic centimeters of helium per 1000 liters of air (ppm by volume) corrected to a constant concentration of neon.

Table A-2 shows SRL identification number; concentration of Al and Dy; sampling date (SAMPDATE); and the following characteristics of the well or spring that was sampled:

NO₃

Nitrate and nitrite (ppm) by colorimetry.

NH₃

Ammonia (ppm) by colorimetry.

SO₄

Sulfate (ppm) by barium sulfate turbidimetry.

PO₄

Orthophosphate (ppm) by colorimetry. Based on least squares fit of standard curves. Negative results at very low concentrations (<0.1 ppm) may be the result of curve fitting.

AGE

The ages of the sampled wells are recorded to the nearest whole year. When only minimum ages are known, they are recorded. A period (.) means the age of the well is unknown. Wells <1 year old were not sampled.

WATERTEMP

The water temperature at the time of sampling, recorded in degrees Celsius (°C) to the nearest whole degree. Missing data are indicated by "M."

WELLTYPE

Sampled wells are classified by method of construction. The types listed are:

1. Drilled; denotes wells formed by rotary drills or augers.
2. Dug; denotes wells dug by manual or mechanical scooping equipment.
3. Driven; denotes wells formed by vertical pile drivers.
4. Unknown.

WELLPOINT

The positions at which samples are taken are listed. They are relative positions in plumbing systems. The entries and their meanings are:

1. Immediately after storage tank
2. From pipe before storage tank
3. Direct from pump
4. Direct from well or spring
5. From municipal system
6. Unknown
7. Other

WELLUSE

This column describes the primary use of water from the well.
The categories are:

1. Human drinking
2. Animal drinking
3. Irrigation
4. All other purposes

WELLFREQ

This column lists the frequency of use of sampled wells.
The entries and their meanings are:

1. Continuous (more than once daily)
2. Once daily
3. Once weekly
4. Once monthly
5. Less than once monthly
6. Not in use

Wells used less frequently than weekly are generally not sampled.

WELLODOR

Hydrogen sulfide odors in well water are noted. The entries in this column and their meanings are:

1. No odor
2. Weak H₂S odor
3. Strong H₂S odor
4. Other

PIPECOMP

The major materials used in pipes are listed in this column.
The entries used and their meanings are:

1. Galvanized
2. Copper
3. Plastic
4. Steel
5. Lead
6. Unknown
7. Other

WELCLASS

Sampled wells are classified by use. The classes of wells recognized here are:

1. Private (less than three families)
2. Semiprivate (used by three to ten families)
3. Public (used by more than ten families)

WELLDEPTH

Depth of the well in feet, if known. These data are generally provided by the householder. Springs are coded as having a depth of 0 feet.

COLUMNAR ENTRIES FOR SEDIMENT DATA

Table B-1 presents analytical and key field data for the sediment samples collected in the Jasper-Hampton study. Conductivity, alkalinity, and pH of the stream water samples were measured in the field. The elements U, Th, Hf, Ce, Fe, Mn, Na, Sc, Ti, and V were analyzed by neutron activation analysis. Minus signs (-) represent "less than," and ".M" indicates missing data. Stream sediment samples were separated into four size fractions for subsequent elemental analysis. These sizes are coded in the sample numbers in Table B-1 as follows:

- S6 >40 mesh
- S7 40 to 100 mesh
- S8 100 to 200 mesh
- S9 <200 mesh

Table B-2 includes the SRL identification number and the elemental concentrations of Al, Dy, Eu, La, Sm, Yb, and Lu.

Table B-3 includes the SRL identification number and the following entries:

SAMPDATE

The date of sampling, month/day/year. For example, 7/15/77 is July 15, 1977.

VELOCITY

- 1. Stagnant
- 2. Slow
- 3. Moderate
- 4. Fast
- 5. Torrent

The water descriptor provides an indication of the general condition of the water at the time of sampling. Velocity indicates the rate of flow at the sampled location.

STMWIDTH and STMDEPTH

1. <0.5 ft	6. 8-16 ft
2. 0.5-1 ft	7. 16-32 ft
3. 1-2 ft	8. >32 ft
4. 2-4 ft	9. dry
5. 4-8 ft	

STMWIDTH and STMDEPTH provide an estimate of the average width and depth of the stream over the 100 to 200 ft of stream length where the sample was taken.

RELIEF

1. Flat
2. Low, 0-50 ft
3. Gentle, 50-200 ft
4. Moderate, 200-1000 ft
5. High, >1000 ft

Relief is an indicator of local surface expression. The area included around a sample site will usually not exceed a few hundred yards in mountainous terrain, but may exceed one-half mile in relatively flat areas.

STMLEVEL

1. Dry
2. Low
3. Normal
4. High
5. Flood

Stream level (STMLEVEL) describes the water level relative to its apparent normal level.

STMCOLOR

1. Clear
2. Brown-clear
3. Cloudy
4. Muddy
5. Algal
6. Other

Stream color (STMCOLOR) reflects the amount and type of dissolved or suspended load in the water on the basis of color. If a large amount of algae was suspended in the water, 5 (Algal) is entered. If the water was transparent, but had a definite brown or black color, then 2 (Brown-clear) is entered.

STRBED

1. Depositing
2. Eroding
3. Unknown

The column labeled STRBED (stream bed) is coded with the appropriate descriptor listed above. A steeply inclined stream bed with fast-moving water can usually be considered as eroding, whereas a nearly level, slow-moving stream may indicate a depositing channel (that is, the stream is depositing its load of sand, silt, or other sediment in areas of low velocity). The chosen descriptor applies to the general nature of the stream.

VEGDENS

1. Barren
2. Sparse
3. Moderate
4. Dense
5. Very dense

Vegetation density (VEGDENS) indicates the amount of plant growth in the immediate area of the sample location. The density is a subjective observation made in relation to visibility, ease of access, and other considerations.

WEATHER

1. Sunny/clear
2. Overcast
3. Light rain
4. Heavy rain
5. Snowy
6. Other

The weather entry is a general indicator of the conditions prevalent at the time of sampling.

CONTAMN

The activities/contaminants columns indicate those nearby activities that may influence the analytical results. These are very important entries, chosen from the list of numerical designators shown. The major activity or contamination is always listed under CONTAMN3. A second activity, if considered important, is listed under CONTAMN2, etc.

CONTAMN1	1. Chemical	7. Power generation
CONTAMN2	2. Smelting	8. Urban
CONTAMN3	3. Mining	9. Other industrial
	4. Sewage	A. Recreational
	5. Dumps	B. Residential
	6. Farming	

WATERTEM

The water temperature (WATERTEM), taken at the time of sampling, is recorded in degrees Celsius to the nearest whole degree.

COLUMNAR ENTRIES FOR SURFACE WATER DATA

Table C-1 presents analytical and selected field data for the stream water samples collected in the Jasper-Hampton orientation study. Uranium was determined by neutron activation analysis and is reported in parts per billion. The elements Br, Cl, F, Mn, Na, V, Al, and Dy were analyzed by neutron activation analysis and are reported in parts per billion.

Nitrate and nitrite, ammonia, sulfate, orthophosphate, pH, conductivity, and alkalinity were measured in the field as described for Table A-2.

REFERENCES

Price, V., and Jones, P. L., 1979, Training Manual for Water and Sediment Geochemical Reconnaissance: U.S. Department of Energy, GJBX-420(81).

SRL-138, Savannah River Laboratory Quarterly and Semiannual Reports, Hydrogeochemical and Stream Sediment Reconnaissance, National Uranium Resource Evaluation: E. I. du Pont de Nemours & Co., Savannah River Laboratory, Aiken, S. C.

<u>Period</u>	<u>SRL Doc. No.</u>	<u>DOE-GJO Doc. No.*</u>
January-March 1975	DPST-75-138-1	GJBX-5(76)
April-June 1975	DPST-75-138-2	GJBX-6(76)
July-September 1975	DPST-75-138-3	GJBX-7(76)
October-December 1975	DPST-75-138-4	GJBX-8(76)
January-March 1976	DPST-76-138-1	GJBX-17(76)
April-June 1976	DPST-76-138-2	GJBX-27(76)
July-September 1976	DPST-76-138-3	GJBX-63(76)
October-December 1976	DPST-76-138-4	GJBX-6(77)
January-March 1977	DPST-77-138-1	GJBX-35(77)
April-June 1977	DPST-77-138-2	GJBX-55(77)
July-September 1977	DPST-77-138-3	GJBX-90(77)
October-December 1977	DPST-77-138-4	GJBX-31(78)
January-March 1978	DPST-78-138-1	GJBX-66(78)
April-September 1978	DPST-78-138-2	GJBX-13(79)
October 1978-March 1979	DPST-79-138-1	GJBX-86(79)
April-September 1979	DPST-79-138-2	GJBX-160(79)
October 1979-March 1980	DPST-80-138-1	GJBX-146(80)

*DOE-GJO reports are available on microfiche from the Grand Junction Office, DOE. Requests for information about orders should be sent to: Bendix Field Engineering Corporation, Technical Library, P.O. Box 1569, Grand Junction, CO 81502-1569, telephone (303) 242-8621.

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FIGURE 1. Location Map for Jasper and Hampton Counties, South Carolina

FIGURE 2. Site Location Map for Jasper and Hampton Counties, South Carolina. Circles indicate surface sites and diamonds indicate ground water sites.

TABLE 1a

Statistical Summary of Analytical Results for SRL 2.2
Sediment Standard

<u>Element</u>	<u>Number</u>	<u>Mean, ppm</u>	<u>Coefficient of Variation, %</u>	<u>Accepted Value, ppm</u>
U	294	21.8	5.8	22.2
Th	295	114	15.2	125
Hf	296	146	18.1	173
Al	289	7000	10.8	6500
Ce	288	534	15.5	614
Fe	273	6600	26.2	6700
Mn	266	275	15.8	300
Sc	297	3.41	26.8	3.9
Na	278	150	36.3	145
Ti	271	12,400	20.6	13,200
V	282	33.7	16.9	34.7
Dy	275	27.3	38.0	<22
Eu	175	2.74	35.4	2.5
La	276	279	17.5	301
Lu	253	2.55	13.2	2.9
Sm	280	47.7	38.2	51.3
Yb	294	15.9	21.3	18.2

TABLE 1b

Statistical Summary of Analytical Results for SRL 3.1
Sediment Standard

<u>Element</u>	<u>Number</u>	<u>Mean, ppm</u>	<u>Coefficient of Variation, %</u>	<u>Accepted Value, ppm</u>
U	162	42.0	5.0	41.3
Th	163	166	15.5	162
Hf	44	4.7	39.2	7.4
Al	132	37,000	16.6	30,600
Ce	149	913	17.5	903
Fe	160	16,000	19.3	15,200
Mn	156	283	16.4	289
Sc	169	4.55	36.7	4.19
Na	167	1030	30.6	901
Ti	114	5870	15.9	6100
V	147	50.6	17.0	54.4
Dy	135	71.2	20.9	50*
Eu	151	3.90	29.3	3.86
La	153	470	16.4	443
Lu	152	4.78	17.3	4.4
Sm	159	68.8	36.6	69.2
Yb	161	33.1	18.6	29.9

*Only one laboratory reported a value for dysprosium.

TABLE 1c

Statistical Summary of Analytical Results for SRL 4.1
Sediment Standard

<u>Element</u>	<u>Number</u>	<u>Mean, ppm</u>	<u>Coefficient of Variation, %</u>	<u>Accepted Value, ppm</u>
U	159	0.56	11.8	0.58
Th	93	2.4	42.3	2.1
Hf	122	3.2	46.4	3.3
Al	112	71,000	15.7	66,700
Ce	105	59	22.8	44
Fe	156	85,500	14.6	87,300
Mn	141	1850	16.8	1970
Sc	158	20	34.4	21
Na	153	18,800	15.6	16,100
Ti	91	26,700	14.6	25,200
V	136	259	16.1	273
Dy	16	7.3	29.2	<22
Eu	79	1.47	37.2	1.16
La	157	18.2	18.1	18.6
Lu	129	0.22	31.4	0.28
Sm	152	3.4	24.6	4.2
Yb	60	2.1	47.8	1.6

TABLE A-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -GROUND WATER.
U, BR, CL, F, MN, NA, AND V: ELEMENTAL CONCENTRATIONS IN PPB
HE IN PPM. IN TWO CC AIR GAP ABOVE 300 CC OF H2O. SCINT. IN CPS.

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U	BR	CL	F	HE	MN	NA	V	U/CONC X 1000
YYJA501R	32.8796	81.2107	7.8	250	15.05	0.032	14.9	3430	.	M	15.9	1660	-0.1	0.13
YYJA502R	32.8197	81.2257	5.3	70	3.50	0.035	4.2	5430	.	6.0	26.4	M	-0.1	0.50
YYJA503R	32.7737	81.2006	7.8	210	12.05	M	M	M	M	4.0	M	M	M	M
YYJA504R	32.7437	81.1615	8.0	220	14.05	M	M	M	M	6.0	M	M	M	M
YYJA505R	32.8240	81.1504	8.2	240	16.05	0.029	13.7	3530	35	6.0	17.7	2020	-0.1	0.12
YYJA506R	32.7919	81.0965	8.0	250	19.05	0.018	.	3230	24	5.0	24.1	1670	-0.1	0.07
YYJA507R	32.8070	81.0313	8.0	270	18.05	0.035	.	3330	34	7.0	29.1	2420	-0.1	0.13
YYJA508R	32.8756	81.0397	8.2	240	14.05	0.037	.	3130	13	5.0	6.9	980	-0.1	0.15
YYJA509R	32.9355	81.0323	5.2	45	4.50	0.568	.	6730	.	5.0	5.5	2920	0.1	12.62
YYJA510R	32.9165	81.0838	5.2	80	4.50	0.070	44.3	M	.	5.0	14.7	M	-0.1	0.88
YYJA511R	32.8852	81.2100	7.1	220	13.05	0.037	9.6	2930	.	5.0	9.7	1920	-0.1	0.17
YYJA512R	32.8163	81.1811	7.8	250	14.05	0.053	.	3330	.	M	19.5	2060	-0.1	0.21
YYJA513R	32.8886	81.1162	4.9	150	3.50	0.073	.	8130	.	5.0	25.8	2550	-0.1	0.49
YYJA514R	32.8969	81.0820	7.5	250	18.05	0.027	.	3630	40	M	15.8	2770	-0.1	0.11
YYJA515R	32.8905	81.0347	7.6	310	19.05	0.023	.	3930	51	5.0	.	2220	-0.1	0.07
YYJA516R	32.7624	81.0027	8.0	270	13.05	0.019	4.6	3730	71	8.0	18.7	M	-0.1	0.07
YYJA517R	32.7531	80.9279	7.8	290	17.05	0.031	.	3830	11	5.0	.	2660	-0.1	0.11
YYJA518R	32.7207	80.9078	7.8	230	14.05	0.028	4.0	3430	25	M	50.3	2230	-0.1	0.12
YYJA519R	32.6637	80.9895	7.6	340	19.05	0.030	4.0	3330	.	5.0	56.0	2400	-0.1	0.09
YYJA520R	32.6112	80.9984	5.1	60	3.50	0.051	11.6	4830	.	5.0	.	2750	-0.1	0.85
YYJA521R	32.6275	80.8800	7.6	250	18.05	0.017	12.5	3730	36	3.0	24.5	3320	-0.1	0.07
YYJA522R	32.5719	80.9286	7.9	260	15.05	0.030	5.3	3530	19	7.0	18.1	2660	-0.1	0.12
YYJA523R	32.5634	80.9154	7.9	270	17.05	0.018	6.0	3530	.	7.0	31.4	3300	-0.1	0.07
YYJA524R	32.5188	80.8745	7.9	295	16.05	0.016	.	4330	27	M	34.7	3630	-0.1	0.05
YYJA525R	32.5082	81.0032	7.8	280	15.05	0.028	.	4330	.	5.0	33.9	3290	-0.1	0.10
YYJA526R	32.5197	80.9886	7.9	320	16.05	0.015	.	4530	.	6.0	42.6	3700	-0.1	0.05
YYJA527R	32.5594	81.0546	8.1	240	15.05	0.018	13.2	M	103	6.0	.	2460	-0.1	0.08
YYJA528R	32.5995	81.1173	7.8	320	16.05	M	M	M	M	M	M	M	M	M
YYJA529R	32.5182	81.1795	8.0	270	15.05	M	M	M	M	6.0	M	M	M	M
YYJA530R	32.4643	81.1152	7.8	340	18.05	M	M	M	M	6.0	M	M	M	M
YYJA531R	32.4946	81.2254	7.9	240	16.05	M	M	M	M	9.0	M	M	M	M
YYJA532R	32.4620	81.0626	7.7	310	13.05	0.015	14.2	7130	20	M	96.0	4300	-0.1	0.05
YYJA533R	32.6672	81.0397	7.3	240	14.05	-0.002	12.0	8330	210	6.0	72.3	3630	-0.1	M
YYJA534R	32.6657	81.0803	7.8	230	12.05	0.008	824.8	18430	344	5.0	.	10410	-0.1	0.04
YYJA535R	32.6545	81.0496	7.8	260	16.05	-0.002	.	7230	69	6.0	34.4	4740	-0.1	M
YYJA536R	32.6166	81.0390	5.3	40	3.50	-0.002	.	M	.	6.0	.	M	-0.1	M
YYJA537R	32.5924	81.0596	7.5	300	16.05	-0.002	.	9930	69	6.0	34.4	5260	-0.1	M
YYJA538R	32.6878	81.0124	7.4	310	17.05	-0.002	.	21330	275	7.0	103.1	11550	-0.1	M
YYJA539R	32.5110	81.0477	7.8	320	16.05	-0.002	.	8630	137	7.0	68.7	5330	-0.1	M
YYJA540R	32.5271	81.1571	7.9	270	12.05	-0.002	.	7430	205	6.0	68.7	5880	-0.1	M
YYJA541R	32.5572	81.1711	7.8	300	14.05	-0.002	.	9130	95	6.0	48.7	5330	-0.1	M
YYJA542R	32.5765	81.1915	7.8	260	15.05	-0.002	171.8	15830	344	7.0	137.5	21380	-0.1	M
YYJA543R	32.5905	81.1883	8.0	260	15.02	-0.002	.	M	.	4.0	.	270	-0.1	M
YYJA544R	32.5964	81.1567	4.8	80	3.50	0.070	.	26530	.	7.0	.	11290	-0.1	0.88
YYJA545R	32.5729	81.1386	7.6	270	16.05	0.005	.	5330	.	6.0	.	2680	-0.1	0.02
YYJA546R	32.5423	81.1245	7.8	290	15.05	0.032	.	17030	157	7.0	103.1	9490	-0.1	0.11
YYJA547R	32.5808	81.1015	7.8	250	14.05	-0.002	.	5230	133	5.0	34.4	1820	-0.1	M
YYJA548R	32.5848	81.0030	5.1	70	3.50	-0.002	.	10130	34	5.0	34.4	1790	-0.1	M
YYJA549R	32.5896	80.9576	7.8	240	11.05	0.044	.	7030	.	5.0	34.4	4740	-0.1	0.18
YYJA550R	32.6443	80.9972	7.9	240	12.05	0.069	.	14330	275	5.0	68.7	7420	-0.1	0.29
YYJA551R	32.7177	81.0952	4.3	260	0.50	0.558	.	12530	.	5.0	40.9	6060	-0.1	2.15
YYJA552R	32.7168	81.1267	7.7	250	12.05	0.027	14.4	4730	.	M	19.7	2950	-0.1	0.11
YYJA553R	32.7579	81.1241	7.7	240	13.05	0.040	11.3	4130	.	5.0	12.7	M	-0.1	0.17

TABLE A-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -GROUND WATER.
U, BR, CL, F, MN, NA, AND V: ELEMENTAL CONCENTRATIONS IN PPB
HE IN PPM. IN TWO CC AIR GAP ABOVE 300 CC OF H2O. SCINT. IN CPS.

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U	BR	CL	F	HE	MN	NA	V	U/COND X 1000
YYJA554R	32.8052	81.1549	7.7	195	12.05	0.048	14.3	4600	17	4.0	38.1	3690	-0.1	0.25
YYJA555R	32.8628	81.1401	7.6	270	14.05	0.037	5.7	4100	44	4.0	65.6	1730	-0.1	0.14
YYJA556R	32.8864	81.1696	7.8	220	13.05	0.045	11.8	4700	133	4.0	6.8	1300	-0.1	0.20
YYJA557R	32.9119	81.2224	6.2	250	9.50	0.100	.	M	.	5.0	.	M	0.2	0.40
YYJA558R	32.4847	80.9389	7.6	350	16.05	0.035	.	M	.	7.0	45.5	M	-0.1	0.10
YYJA559R	32.4950	80.8844	7.3	200	17.10	0.040	.	3900	64	5.0	34.3	M	-0.1	0.20
YYJA560R	32.5154	80.9211	6.1	220	11.25	0.049	17.1	12900	.	5.0	53.2	M	-0.1	0.22
YYJA561R	32.5192	80.9560	7.6	195	10.05	0.021	.	5800	272	6.0	20.1	7420	-0.1	0.11
YYJA562R	32.5458	80.9893	7.7	280	16.05	0.014	9.5	5100	98	6.0	37.5	4390	-0.1	0.05
YYJA563R	32.5773	80.9835	7.7	290	14.05	0.007	19.8	4700	23	6.0	22.0	4170	-0.1	0.02
YYJA564R	32.6031	81.0255	4.5	180	0.50	0.162	11.5	19500	.	5.0	81.9	8250	-0.1	0.90
YYJA565R	32.6452	81.0441	7.3	280	15.05	0.040	28.9	4600	97	6.0	.	3260	-0.1	0.14
YYJA566R	32.6437	81.0669	7.5	270	13.05	0.019	9.5	5100	.	6.0	5.7	2870	-0.1	0.07
YYJA567R	32.5684	81.0755	7.6	280	15.05	0.024	22.5	4500	22	6.0	32.7	3660	-0.1	0.09
YYJA568R	32.5277	81.0404	7.6	280	15.05	0.011	.	5100	59	6.0	42.7	3500	-0.1	0.04
YYJA569R	32.4644	81.0321	7.4	270	15.05	0.026	11.5	4700	104	7.0	.	3700	-0.1	0.10
YYJA570R	32.4878	81.1260	7.6	295	15.05	0.023	22.7	4100	48	6.0	41.1	3180	-0.1	0.08
YYJA571R	32.5121	81.1451	7.6	360	17.05	0.018	16.9	8100	.	7.0	13.1	5570	-0.1	0.05
YYJA572R	32.6715	81.1649	7.7	280	12.05	0.014	15.5	M	.	5.0	20.8	M	-0.1	0.05
YYJA573R	32.6945	81.1579	7.7	250	13.05	0.008	.	5100	.	5.0	16.1	M	-0.1	0.03
YYJA574R	32.7188	81.1449	7.8	240	13.05	0.021	23.4	4500	.	5.0	18.6	3260	-0.1	0.09
YYJA575R	32.7641	81.1568	4.6	185	2.50	0.082	.	9400	18	5.0	53.1	2560	-0.1	0.44
YYJA576R	32.7465	81.1832	7.2	270	13.05	0.026	21.2	4700	.	5.0	.	M	-0.1	0.10
YYJA577R	32.7292	81.1899	7.6	240	13.05	0.022	.	M	.	5.0	9.0	M	-0.1	0.09
YYJA578R	32.5382	80.9096	7.5	310	13.05	0.004	.	7000	.	6.0	15.0	3520	-0.1	0.01
YYJA579R	32.5983	80.9098	8.0	250	14.05	0.024	.	4000	.	6.0	25.3	4080	0.1	0.10
YYJA580R	32.5707	80.8767	7.9	240	14.05	0.030	11.2	4100	90	7.0	27.2	3600	-0.1	0.13
YYJA581R	32.6089	80.8861	8.0	260	13.05	0.022	.	4500	111	M	28.2	4240	-0.1	0.08
YYJA582R	32.6671	80.8716	8.0	240	14.05	0.013	.	4000	.	M	13.0	4750	-0.1	0.05
YYJA583R	32.6871	80.9114	7.9	290	16.05	0.029	.	3700	72	6.0	32.0	3410	-0.1	0.10
YYJA584R	32.7048	80.9343	5.7	100	5.50	0.080	.	8400	.	M	7.9	10210	0.3	0.80
YYJA585R	32.7194	80.9339	4.5	50	2.50	0.073	.	4600	9	M	.	1960	-0.1	1.46
YYJA586R	32.7221	80.8807	7.4	270	16.05	0.040	.	3300	26	M	43.4	2790	0.1	0.15
YYJA587R	32.6891	80.8731	7.9	250	14.05	0.015	7.5	3900	.	6.0	29.1	M	-0.1	0.06
YYJA588R	32.7452	80.8867	7.4	210	12.05	0.029	9.2	4000	54	6.0	20.4	2690	-0.1	0.14
YYJA589R	32.7957	80.9065	8.0	250	14.05	0.038	.	3400	15	11.0	5.5	8920	-0.1	0.15
YYJA590R	32.8455	80.9436	7.9	250	14.05	0.027	4.8	3500	131	7.0	.	3950	-0.1	0.11
YYJA591R	32.8214	80.9506	7.9	230	13.05	0.033	.	3700	37	7.0	.	2690	-0.1	0.14
YYJA592R	32.7844	80.9916	7.9	250	13.05	0.038	.	3600	19	6.0	5.2	3530	-0.1	0.15
YYJA593R	32.8197	81.0018	7.8	260	15.05	0.044	7.4	M	.	6.0	28.3	M	-0.1	0.17
YYJA594R	32.8879	81.0738	6.6	80	6.10	0.053	.	4100	45	5.0	3.9	1540	-0.1	0.66
YYJA595R	32.8967	81.1234	7.4	210	11.05	0.072	10.1	3400	27	5.0	31.7	840	-0.1	0.34
YYJA596R	32.8481	81.1802	5.0	200	3.50	0.036	26.9	4700	.	5.0	4.3	1550	-0.1	0.18
YYJA597R	32.8376	81.1119	5.0	35	3.50	0.068	16.1	4900	.	5.0	15.5	2010	-0.1	1.94
YYJA598R	32.6428	81.2073	7.3	280	15.05	0.030	9.5	3600	.	5.0	33.8	2010	-0.1	0.11
YYJA599R	32.6454	81.1837	4.8	70	3.50	0.002	2.1	M	.	5.0	.	M	-0.1	0.03
YYJA600R	32.6324	81.1392	7.1	270	15.05	0.046	18.8	9000	.	5.0	15.7	5790	-0.1	0.17
YYJA601R	32.6215	81.0949	7.6	240	14.05	0.053	.	3900	21	5.0	13.4	2510	-0.1	0.22
YYJA602R	32.7065	81.0146	7.1	210	13.05	0.034	12.7	4500	120	5.0	.	3990	-0.1	0.16
YYJA603R	32.7314	80.9737	7.7	250	14.05	0.022	.	3600	15	8.0	28.7	3010	-0.1	0.09
YYJA604R	32.7439	81.0464	7.6	230	13.05	0.032	14.0	4000	53	5.0	24.6	4830	-0.1	0.14
YYJA605R	32.7725	81.0526	7.7	250	15.05	0.033	3.7	4100	47	6.0	19.6	3730	-0.1	0.13
YYJA606R	32.7960	80.9575	7.7	270	15.05	0.045	14.6	3700	53	5.0	14.1	2970	-0.1	0.17
YYJA607R	32.8690	81.0075	8.0	220	12.05	0.029	3.5	4400	15	5.0	3.9	3640	-0.1	0.13
YYJA608R	32.8520	81.0555	7.6	260	17.05	0.032	21.2	4100	65	5.0	15.9	1960	-0.1	0.12

TABLE A-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA --- GROUND WATER.

SRL I.D.	AL PPB	DY PPB	SAMPDATE	NO3 PPM	NH3 PPM	SO4 PPM	PO4 PPM	AGE	W A E T E R T E P M E T	W E E L L P O U I S E	W E E L L U R E E	W E L L F O O R	W E L L D O R	P I P E C O M P	W E L C L A S S	W E L D E P T H
YYJA501R	22	-0.100	7/ 5/77	0.0	0.0	0.0	0.2	019	18	1	3	1	1	1	1	0140
YYJA502R	82	0.100	7/ 5/77	2.2	0.0	0.0	0.2	025	22	1	3	1	1	1	1	0025
YYJA503R	M	M	7/ 5/77	0.1	0.0	2.6	0.3	012	19	1	3	1	1	1	1	0130
YYJA504R	M	M	7/ 5/77	0.0	0.0	0.0	0.2	002	22	1	1	1	1	1	1	0160
YYJA505R	13	-0.100	7/ 5/77	0.1	0.0	2.6	0.4	005	23	1	3	1	1	1	1	0300
YYJA506R	12	-0.100	7/ 5/77	0.0	0.2	0.0	0.3	120	21	1	3	2	1	1	1	0020
YYJA507R	A	-0.100	7/ 5/77	0.1	0.0	0.0	0.1	032	20	1	1	1	1	1	1	0125
YYJA508R	8	0.900	7/ 5/77	0.0	0.0	0.0	0.2	008	23	1	1	1	1	1	1	0108
YYJA509R	53	-0.100	7/ 5/77	0.0	0.0	2.0	0.0	008	20	1	1	1	1	1	1	0020
YYJA510R	2A	-0.100	7/ 6/77	3.2	0.0	0.0	0.2	010	22	1	1	2	1	1	1	0030
YYJA511R	11	-0.100	7/ 6/77	0.0	0.0	0.0	0.4	009	21	1	1	1	1	1	1	0300
YYJA512R	12	-0.100	7/ 6/77	0.1	0.0	0.0	0.0	008	22	1	1	1	1	1	1	0180
YYJA513R	187	-0.100	7/ 6/77	1.8	0.0	0.0	0.1	007	26	1	1	1	1	1	1	0030
YYJA514R	7	-0.100	7/ 6/77	0.0	0.0	0.0	0.1	005	21	1	1	1	1	1	1	0133
YYJA515R	10	-0.100	7/ 6/77	0.0	0.0	0.0	0.4	009	20	1	1	1	1	1	1	0120
YYJA516R	11	-0.100	7/ 6/77	0.2	0.0	0.0	0.4	025	23	1	1	1	1	1	1	0147
YYJA517R	13	-0.100	7/ 6/77	0.0	0.0	0.0	0.2	006	23	1	1	1	1	1	1	0119
YYJA518R	8	-0.100	7/ 6/77	0.0	0.0	0.0	0.4	008	21	1	1	1	1	1	1	0300
YYJA519R	10	-0.100	7/ 6/77	0.0	0.0	0.0	0.4	010	23	1	1	1	1	1	1	0100
YYJA520R	59	-0.100	7/ 6/77	0.0	0.0	0.0	0.3	030	23	1	1	1	1	1	1	0030
YYJA521R	1	-0.100	7/ 7/77	0.0	0.0	2.0	0.1	005	18	1	3	1	1	1	3	0097
YYJA522R	13	-0.100	7/ 7/77	0.0	0.0	0.0	0.1	007	22	1	1	1	1	2	1	0154
YYJA523R	9	-0.100	7/ 7/77	0.0	0.0	2.0	0.2	020	22	1	1	1	4	2	1	0125
YYJA524R	13	-0.100	7/ 7/77	0.1	0.0	0.0	0.1	004	20	1	1	1	1	2	1	0075
YYJA525R	13	-0.100	7/ 8/77	0.0	0.0	0.0	0.3	007	19	1	1	1	1	1	9	0210
YYJA526R	8	-0.100	7/ 8/77	0.0	0.1	0.0	0.1	009	21	1	1	1	1	1	1	0189
YYJA527R	M	-0.100	7/ 8/77	0.0	0.0	2.0	0.3	007	19	1	1	1	1	1	1	0205
YYJA528R	M	M	7/ 8/77	0.2	0.0	0.0	0.3	009	20	1	1	1	1	1	1	0220
YYJA529R	M	M	7/ 8/77	0.0	0.0	0.0	0.3	012	20	1	1	1	1	1	1	0150
YYJA530R	M	M	7/ 8/77	0.0	0.0	0.0	0.4	004	18	1	1	1	1	1	1	0183
YYJA531R	M	M	7/ 8/77	0.0	0.0	0.5	0.2	035	14	1	1	1	1	2	1	0154
YYJA532R	12	-0.100	7/ 8/77	0.0	0.1	2.8	0.6	035	16	1	1	1	1	1	1	0300
YYJA533R	47	-0.100	7/12/77	0.0	0.1	0.0	0.4	004	19	1	1	1	1	1	1	0160
YYJA534R	69	-0.100	7/12/77	0.0	0.0	0.0	0.0	008	15	1	1	1	1	1	1	0200
YYJA535R	34	-0.100	7/12/77	0.0	0.0	0.0	0.0	010	14	1	1	1	1	1	1	0103
YYJA536R	17	-0.100	7/12/77	0.0	0.0	0.0	0.1	095	15	2	4	1	4	1	1	0012
YYJA537R	34	-0.100	7/12/77	0.0	0.0	0.0	0.0	007	14	1	1	1	1	1	1	0200
YYJA538R	34	-0.100	7/13/77	0.0	0.0	0.0	0.3	008	16	1	1	1	1	1	1	0250
YYJA539R	34	-0.100	7/12/77	0.0	0.0	0.0	0.1	004	20	1	1	1	1	1	1	0286
YYJA540R	34	-0.100	7/13/77	0.0	0.0	0.0	0.2	050	16	1	1	1	1	1	1	0210
YYJA541R	63	-0.100	7/13/77	0.1	0.0	0.0	0.2	009	17	1	1	1	1	1	1	0250
YYJA542R	206	-0.100	7/13/77	0.0	0.0	0.0	0.1	005	M	1	1	1	1	1	1	0250
YYJA543R	M	1.700	7/13/77	0.0	0.0	0.0	0.4	012	M	1	1	1	1	1	1	0168
YYJA544R	172	-0.100	7/13/77	1.4	0.0	0.0	0.1	030	M	1	4	1	1	1	1	0011
YYJA545R	34	-0.100	7/13/77	0.0	0.0	0.0	0.0	010	M	1	1	1	1	1	1	0150
YYJA546R	69	-0.100	7/13/77	0.0	0.0	0.0	0.0	006	M	1	1	1	1	1	1	0160
YYJA547R	M	-0.100	7/13/77	0.1	0.0	0.0	0.1	007	M	1	1	1	1	1	1	0180
YYJA548R	189	-0.100	7/13/77	0.7	0.0	4.3	0.0	018	M	2	1	1	1	1	1	0014
YYJA549R	34	-0.100	7/14/77	0.0	0.1	0.0	0.0	020	17	1	1	1	1	1	1	0171
YYJA550R	103	-0.100	7/14/77	0.0	0.3	1.0	0.0	026	16	1	1	1	1	2	1	0175

TABLE A-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA --- GROUND WATER.

***** ***** ***** SRL I.D. ***** ***** *****	AL PPB	DY PPB	SAMPDATE	NO3 PPM	NH3 PPM	SO4 PPM	PO4 PPM	A G E	W A T E R T Y E P M E T	W E L L P O U N D O R Q	W E L L F O O D O M P S	W E L L C O O M P S	W E L L C L A S S	W E L L D E P T H	
YYJA551R	1364	1.900	7/14/77	4.1	0.3	2.6	0.0	012	15	1	4	1	1	1	0020
YYJA552R	18	-0.100	7/14/77	0.2	0.0	0.0	0.1	014	18	1	1	1	1	1	0145
YYJA553R	26	-0.100	7/14/77	0.0	0.0	0.0	0.0	003	22	1	1	1	1	1	0160
YYJA554R	20	-0.100	7/14/77	0.0	0.0	0.0	0.0	017	19	1	1	1	1	1	0140
YYJA555R	8	-0.100	7/12/77	0.0	0.0	0.0	0.1	010	21	1	1	1	1	1	0100
YYJA556R	17	0.100	7/14/77	0.6	0.0	0.0	0.0	010	21	1	1	1	1	1	0310
YYJA557R	62	0.200	7/14/77	.	0.0	0.0	0.1	100	24	2	1	1	1	1	0020
YYJA558R	12	-0.100	7/18/77	0.0	0.2	0.7	0.0		23	1	1	1	1	2	0000
YYJA559R	21	-0.100	7/18/77	0.0	0.0	0.0	0.1	008	21	1	1	1	1	1	0500
YYJA560R	5	-0.100	7/18/77	2.5	0.3	5.2	0.0	060	20	1	1	1	1	1	0032
YYJA561R	19	-0.100	7/18/77	0.0	0.0	0.0	0.2	030	19	1	1	1	1	1	0187
YYJA562R	14	-0.100	7/18/77	0.1	0.2	0.0	0.1	008	24	1	1	4	1	1	0265
YYJA563R	15	-0.100	7/18/77	0.1	0.2	0.0	0.0	008	23	1	1	1	1	1	0250
YYJA564R	34	0.200	7/18/77	2.2	0.0	2.0	0.1	061	23	1	1	1	1	1	0030
YYJA565R	15	-0.100	7/18/77	0.3	0.1	0.5	0.1	007	23	1	1	1	1	1	0187
YYJA566R	15	-0.100	7/14/77	0.0	0.0	0.0	0.4	015	21	1	1	1	1	1	0200
YYJA567R	17	-0.100	7/18/77	0.1	0.1	0.7	0.1	003	23	1	1	1	1	1	0160
YYJA568R	14	-0.100	7/18/77	0.1	0.1	0.0	0.1	036	20	1	1	1	1	1	0135
YYJA569R	14	-0.100	7/19/77	0.0	0.2	0.2	0.1	015	19	1	1	1	1	1	0275
YYJA570R	14	-0.100	7/19/77	0.0	0.0	0.0	0.0	060	21	1	1	1	1	1	0160
YYJA571R	17	-0.100	7/19/77	0.1	0.1	0.0	0.0	012	20	1	1	1	1	1	0160
YYJA572R	12	-0.100	7/19/77	0.0	0.0	0.0	0.2	008	22	1	1	1	1	1	0180
YYJA573R	11	-0.100	7/19/77	0.0	0.2	0.0	0.2	032	19	1	1	1	1	1	0204
YYJA574R	22	-0.100	7/19/77	0.1	0.0	0.0	0.0	030	23	1	1	1	1	1	0200
YYJA575R	393	0.500	7/19/77	0.9	0.0	0.0	0.1	011	17	1	1	1	1	1	0030
YYJA576R	21	-0.100	7/19/77	0.1	0.1	1.3	0.1	030	17	1	1	1	1	1	0300
YYJA577R	15	-0.100	7/19/77	0.1	0.0	0.0	0.3	010	20	1	1	1	1	1	0200
YYJA578R	12	-0.100	7/20/77	0.0	0.2	1.0	0.1	065	24	1	3	1	1	1	0100
YYJA579R	10	-0.100	7/20/77	0.0	0.0	0.0	0.4	002	21	1	1	1	1	1	0100
YYJA580R	10	-0.100	7/20/77	0.0	0.3	0.0	0.0		22	1	7	1	1	2	0175
YYJA581R	13	-0.100	7/20/77	0.1	0.0	0.0	0.0	008	27	1	1	1	1	1	0150
YYJA582R	11	-0.100	7/20/77	0.0	0.4	0.0	0.2	008	22	1	1	1	1	2	0270
YYJA583R	13	-0.100	7/20/77	0.1	0.1	0.0	0.0	100	26	1	1	1	1	1	0140
YYJA584R	238	0.100	7/20/77	2.7	0.3	3.4	0.0	030	24	1	3	1	1	1	0027
YYJA585R	84	-0.100	7/20/77	1.6	0.1	0.0	0.1	056	24	1	1	1	1	1	0028
YYJA586R	14	-0.100	7/20/77	0.0	0.0	0.0	0.1	008	25	1	1	1	1	1	0100
YYJA587R	14	-0.100	7/20/77	0.0	0.1	0.0	0.0	004	25	1	1	1	1	1	0060
YYJA588R	11	-0.100	7/21/77	0.2	0.0	0.0	0.0	003	25	1	1	1	1	1	0160
YYJA589R	10	-0.100	7/21/77	0.0	0.4	0.0	0.1	018	23	1	1	1	1	1	0096
YYJA590R	13	-0.100	7/21/77	0.0	0.2	0.0	0.1	100	23	1	1	1	1	3	0120
YYJA591R	13	-0.100	7/21/77	0.1	0.1	1.5	0.3	020	21	1	1	1	1	3	0325
YYJA592R	13	-0.100	7/21/77	0.1	0.2	2.3	0.0	010	23	1	1	1	1	2	0180
YYJA593R	31	-0.100	7/21/77	0.0	0.3	0.0	0.0	020	22	1	1	1	1	1	0160
YYJA594R	14	-0.100	7/21/77	1.3	0.0	0.0	0.0	009	25	1	1	1	1	1	0085
YYJA595R	14	-0.100	7/21/77	0.0	0.0	1.3	0.0	100	24	4	1	1	1	1	0100
YYJA596R	24	-0.100	7/25/77	0.0	0.0	0.0	0.1	006	23	1	1	1	1	2	0055
YYJA597R	31	-0.100	7/25/77	3.4	0.0	0.0	0.0	012	26	1	1	1	1	1	0021
YYJA598R	15	-0.100	7/27/77	0.0	0.1	0.0	0.1	001	23	1	1	1	1	1	0150
YYJA599R	M	-0.100	7/27/77	3.2	0.0	0.0	0.2	050	22	1	1	1	1	1	0030
YYJA600R	88	0.100	7/27/77	0.0	0.0	0.0	0.2	012	21	1	1	1	1	2	0250
YYJA601R	17	-0.100	7/27/77	0.0	0.1	0.0	0.1	040	26	1	1	1	1	1	0300
YYJA602R	15	-0.100	7/28/77	0.0	0.0	0.0	0.1	007	22	1	1	1	1	1	0125
YYJA603R	14	-0.100	7/28/77	0.0	0.1	0.0	0.0	014	24	1	1	1	1	1	0126
YYJA604R	14	-0.100	7/28/77	0.0	0.2	0.0	0.0	015	21	1	1	1	1	3	0250
YYJA605R	13	-0.100	7/28/77	0.0	0.0	0.0	0.0	001	23	1	1	1	1	1	0150
YYJA606R	14	-0.100	7/28/77	0.0	0.1	0.0	0.1	001	22	1	1	1	1	1	0137
YYJA607R	14	-0.100	7/28/77	0.0	0.0	0.0	0.0	001	26	1	1	1	1	1	0180
YYJA608R	27	-0.100	7/28/77	0.0	0.1	0.0	0.0	025	22	1	1	1	1	1	0100

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA00156	32.9032	81.1560	6.4	110	14.25	0.1	-3	-2	-17	-3200	20	60	-0.3	800	4
YYJA00157	32.9032	81.1560	6.4	110	14.25	2.3	9	44	95	-3400	30	60	1.3	4600	11
YYJA00158	32.9032	81.1560	6.4	110	14.25	1.0	4	24	-43	3000	30	50	0.7	3600	10
YYJA00159	32.9032	81.1560	6.4	110	14.25	26.9	152	475	712	7800	160	410	7.0	24700	60
YYJA00256	32.9239	81.0750	6.2	120	1.50	0.7	4	8	-9	-500	40	60	0.6	1400	4
YYJA00257	32.9239	81.0750	6.2	120	1.50	4.1	16	53	75	2900	50	120	1.8	3800	12
YYJA00258	32.9239	81.0750	6.2	120	1.50	5.5	35	61	170	3800	90	130	1.0	7000	19
YYJA00259	32.9239	81.0750	6.2	120	1.50	15.5	70	183	394	4400	90	180	2.5	8500	28
YYJA00356	32.9446	81.0509	6.9	105	14.25	0.4	-3	-2	-21	-12700	60	60	-0.6	800	3
YYJA00357	32.9446	81.0509	6.9	105	14.25	6.0	28	61	163	-2700	340	280	1.7	12100	29
YYJA00358	32.9446	81.0509	6.9	105	14.25	5.5	45	54	217	-5400	210	160	1.4	8100	20
YYJA00359	32.9446	81.0509	6.9	105	14.25	24.7	114	226	536	8700	450	830	6.1	15800	40
YYJA00456	32.8958	81.0478	6.1	43	3.50	M	M	M	M	M	M	M	M	M	M
YYJA00457	32.8958	81.0478	6.1	43	3.50	4.8	26	77	115	2800	90	200	1.5	6300	15
YYJA00458	32.8958	81.0478	6.1	43	3.50	6.6	36	86	146	1500	M	160	1.4	5200	12
YYJA00459	32.8958	81.0478	6.1	43	3.50	M	M	M	M	M	M	M	M	M	M
YYJA00556	32.8856	81.0042	3.9	60	0.50	0.4	-3	-2	-83	-1400	M	50	0.5	M	M
YYJA00557	32.8856	81.0042	3.9	60	0.50	3.7	13	43	68	2600	70	190	1.6	5200	17
YYJA00558	32.8856	81.0042	3.9	60	0.50	1.4	-6	17	69	-6100	50	130	0.7	4600	12
YYJA00559	32.8856	81.0042	3.9	60	0.50	8.7	34	100	208	-4000	80	260	3.0	7800	23
YYJA00656	32.8471	81.1284	6.1	80	10.50	0.3	2	2	-9	-1400	10	180	0.4	500	4
YYJA00657	32.8471	81.1284	6.1	80	10.50	1.8	6	20	M	-2500	80	130	0.9	4800	16
YYJA00658	32.8471	81.1284	6.1	80	10.50	0.5	-4	6	-33	-2500	40	80	1.2	2300	8
YYJA00659	32.8471	81.1284	6.1	80	10.50	9.4	45	102	165	12900	280	360	6.0	14500	43
YYJA00756	32.8318	81.2112	5.9	48	6.50	0.1	-2	1	-20	-2600	10	30	-0.3	800	2
YYJA00757	32.8318	81.2112	5.9	48	6.50	1.7	7	32	-21	-2600	30	60	1.3	4500	12
YYJA00758	32.8318	81.2112	5.9	48	6.50	0.7	-6	19	-67	-3100	30	60	1.3	4000	11
YYJA00759	32.8318	81.2112	5.9	48	6.50	25.9	116	453	588	5000	160	250	6.0	20500	52
YYJA00856	32.8393	81.1954	4.4	60	1.50	0.3	2	1	-17	1600	40	30	0.5	1900	4
YYJA00857	32.8393	81.1954	4.4	60	1.50	6.2	21	103	101	-2300	30	50	1.6	7400	17
YYJA00858	32.8393	81.1954	4.4	60	1.50	3.9	13	84	108	-2400	30	50	1.4	6800	15
YYJA00859	32.8393	81.1954	4.4	60	1.50	41.0	214	686	957	-3500	50	100	7.6	16900	38
YYJA00956	32.8176	81.2152	5.8	70	6.50	0.8	2	10	-56	-300	50	50	0.3	2600	7
YYJA00957	32.8176	81.2152	5.8	70	6.50	6.1	23	86	133	-2700	30	110	1.3	4500	12
YYJA00958	32.8176	81.2152	5.8	70	6.50	1.8	8	35	-72	-2400	20	60	0.5	2700	7
YYJA00959	32.8176	81.2152	5.8	70	6.50	32.9	162	458	679	1900	110	490	5.6	18400	42
YYJA01056	32.8053	81.2195	6.3	60	9.50	0.5	-3	11	-28	3300	80	30	1.0	2900	10
YYJA01057	32.8053	81.2195	6.3	60	9.50	5.7	27	80	123	3800	70	90	2.5	6000	15
YYJA01058	32.8053	81.2195	6.3	60	9.50	6.3	43	65	270	5600	80	90	2.4	7200	17
YYJA01059	32.8053	81.2195	6.3	60	9.50	20.2	95	245	466	-3800	150	270	3.3	12400	33
YYJA01156	32.8023	81.1582	6.0	75	5.50	0.3	4	5	20	-900	10	30	0.2	1000	2
YYJA01157	32.8023	81.1582	6.0	75	5.50	3.3	13	56	39	-2300	40	30	1.0	3800	10
YYJA01158	32.8023	81.1582	6.0	75	5.50	3.0	9	44	-53	-7300	40	50	2.2	3900	11
YYJA01159	32.8023	81.1582	6.0	75	5.50	30.0	125	407	703	3300	140	200	5.4	16100	37
YYJA01256	32.7884	81.1622	5.5	55	5.50	1.1	3	16	-12	2100	130	60	0.7	5500	13
YYJA01257	32.7884	81.1622	5.5	55	5.50	8.3	44	82	208	-2200	40	80	1.1	4400	12
YYJA01258	32.7884	81.1622	5.5	55	5.50	3.9	34	40	163	-4400	20	30	0.7	2200	6
YYJA01259	32.7884	81.1622	5.5	55	5.50	11.7	49	178	242	-2000	20	30	1.6	4400	9
YYJA01356	32.7605	81.2044	5.3	75	5.50	0.2	2	1	-11	-3000	20	20	0.3	800	2
YYJA01357	32.7605	81.2044	5.3	75	5.50	1.7	8	27	28	-900	20	30	0.5	1700	5
YYJA01358	32.7605	81.2044	5.3	75	5.50	1.7	7	16	39	-800	20	20	0.3	1400	4
YYJA01359	32.7605	81.2044	5.3	75	5.50	7.8	86	294	380	5500	40	130	4.6	5200	16
YYJA01456	32.7625	81.1666	6.5	62	5.50	1.1	4	4	-27	-3700	20	140	2.3	2000	14
YYJA01457	32.7625	81.1666	6.5	62	5.50	1.2	5	9	28	-1700	20	120	1.5	2400	14
YYJA01458	32.7625	81.1666	6.5	62	5.50	0.7	3	4	-36	1900	20	80	0.8	M	10

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA01459	32.7625	81.1666	6.5	62	5.50	2.4	21	18	100	5700	30	140	5.7	3500	17
YYJA01556	32.8018	81.1139	5.9	35	4.50	0.1	M	M	M	-4500	10	10	-0.3	500	1
YYJA01557	32.8018	81.1139	5.9	35	4.50	3.2	13	42	67	1200	50	50	0.9	3400	10
YYJA01558	32.8018	81.1139	5.9	35	4.50	2.9	12	41	58	1600	50	40	0.8	4200	11
YYJA01559	32.8018	81.1139	5.9	35	4.50	8.6	53	148	247	2600	140	240	3.6	9500	28
YYJA01656	32.8295	81.0917	7.3	250	17.10	0.6	2	3	13	-1600	20	50	0.4	600	2
YYJA01657	32.8295	81.0917	7.3	250	17.10	2.4	35	22	177	7800	50	110	1.8	2900	7
YYJA01658	32.8295	81.0917	7.3	250	17.10	1.8	10	25	80	3300	70	180	1.1	4000	10
YYJA01659	32.8295	81.0917	7.3	250	17.10	25.0	121	278	530	3600	330	800	4.8	13100	29
YYJA01756	32.8044	81.0244	4.5	50	1.50	0.1	-2	2	-15	-6700	10	50	-0.2	300	1
YYJA01757	32.8044	81.0244	4.5	50	1.50	1.3	5	15	39	1300	70	130	0.6	3200	8
YYJA01758	32.8044	81.0244	4.5	50	1.50	0.2	-1	3	-7	1000	40	100	0.4	1700	5
YYJA01759	32.8044	81.0244	4.5	50	1.50	24.6	336	866	1427	20700	460	370	14.1	20400	45
YYJA01856	32.7975	81.0423	4.7	55	2.50	0.5	-3	3	-46	3900	30	190	0.6	1600	5
YYJA01857	32.7975	81.0423	4.7	55	2.50	3.4	18	34	79	1400	120	270	1.3	5300	14
YYJA01858	32.7975	81.0423	4.7	55	2.50	1.0	5	14	-45	-2500	120	560	0.9	5700	15
YYJA01859	32.7975	81.0423	4.7	55	2.50	26.4	188	385	814	14000	510	1060	8.5	23900	58
YYJA01956	32.7505	80.9928	5.2	55	3.50	0.5	M	-2	M	-9000	20	170	0.6	1100	4
YYJA01957	32.7505	80.9928	5.2	55	3.50	3.3	17	33	111	4700	160	650	1.1	7500	18
YYJA01958	32.7505	80.9928	5.2	55	3.50	0.9	-3	12	-55	-2700	100	270	1.0	4700	11
YYJA01959	32.7505	80.9928	5.2	55	3.50	71.6	382	951	1695	19600	930	1100	13.7	36500	91
YYJA02056	32.5065	80.8911	6.2	31000	12.25	1.9	10	8	35	1700	80	1160	0.9	2400	8
YYJA02057	32.5065	80.8911	6.2	31000	12.25	6.0	33	57	75	7900	210	2300	3.9	6400	21
YYJA02058	32.5065	80.8911	6.2	31000	12.25	2.9	16	34	68	4000	200	2020	1.3	7000	20
YYJA02059	32.5065	80.8911	6.2	31000	12.25	10.0	47	96	195	9400	320	5470	4.4	8300	35
YYJA02156	32.5424	80.9152	7.1	19000	14.25	0.6	-4	5	-42	5500	100	410	0.6	2500	7
YYJA02157	32.5424	80.9152	7.1	19000	14.25	9.0	61	111	264	8700	420	6100	6.7	13200	65
YYJA02158	32.5424	80.9152	7.1	19000	14.25	5.8	42	52	190	12900	230	1730	2.4	7800	28
YYJA02159	32.5424	80.9152	7.1	19000	14.25	8.8	57	106	368	36900	300	10300	12.7	7000	74
YYJA02256	32.5746	80.9318	6.9	12000	1.25	1.1	-4	-2	-42	5700	70	3050	3.8	2700	33
YYJA02257	32.5746	80.9318	6.9	12000	1.25	2.8	10	26	78	7900	140	4910	4.0	4900	30
YYJA02258	32.5746	80.9318	6.9	12000	1.25	1.9	-3	15	40	5200	90	3120	2.8	3300	26
YYJA02259	32.5746	80.9318	6.9	12000	1.25	5.1	18	54	125	12200	220	8280	8.3	5900	49
YYJA02356	32.6753	80.8969	5.6	65	4.50	0.3	-2	7	-19	1500	10	200	0.4	800	7
YYJA02357	32.6753	80.8969	5.6	65	4.50	3.0	10	42	31	5900	140	650	2.2	7000	23
YYJA02358	32.6753	80.8969	5.6	65	4.50	2.1	12	32	47	4100	160	710	1.3	8900	29
YYJA02359	32.6753	80.8969	5.6	65	4.50	19.1	108	325	486	19000	410	2500	7.8	16600	62
YYJA02456	32.7141	80.9462	4.4	50	1.50	0.4	-2	4	-19	-4700	30	140	-0.1	800	2
YYJA02457	32.7141	80.9462	4.4	50	1.50	4.1	22	48	102	-6000	130	360	1.7	5600	14
YYJA02458	32.7141	80.9462	4.4	50	1.50	2.1	12	21	71	3900	70	280	0.8	3100	9
YYJA02459	32.7141	80.9462	4.4	50	1.50	73.6	425	976	1857	15500	940	2660	13.1	38100	93
YYJA02556	32.6973	80.9673	8.2	120	11.25	0.4	-3	3	-26	-3200	50	240	-0.3	1400	4
YYJA02557	32.6973	80.9673	8.2	120	11.25	3.7	17	52	115	-2200	120	440	0.8	4400	13
YYJA02558	32.6973	80.9673	8.2	120	11.25	3.2	19	55	96	-1800	120	340	0.9	5200	13
YYJA02559	32.6973	80.9673	8.2	120	11.25	100.2	519	1395	2295	27000	1700	2810	18.3	59300	137
YYJA02656	32.6169	80.9957	4.6	40	3.50	0.8	-2	6	-19	-1100	30	110	0.3	1300	4
YYJA02657	32.6169	80.9957	4.6	40	3.50	2.6	-9	29	53	-2700	80	170	1.0	4200	10
YYJA02658	32.6169	80.9957	4.6	40	3.50	0.8	-2	16	-16	4200	90	190	1.1	4600	11
YYJA02659	32.6169	80.9957	4.6	40	3.50	89.5	463	1081	2179	22100	1190	1720	13.7	52200	112
YYJA02756	32.5837	80.9809	5.5	70	5.50	0.2	-1	6	-37	-1400	20	80	0.1	900	2
YYJA02757	32.5837	80.9809	5.5	70	5.50	1.6	7	22	28	-900	60	210	0.7	2800	8
YYJA02758	32.5837	80.9809	5.5	70	5.50	1.9	9	18	47	-2500	50	150	0.8	2100	7
YYJA02759	32.5837	80.9809	5.5	70	5.50	36.2	159	496	813	10800	530	1070	6.6	21400	57
YYJA02856	32.4962	81.0195	6.0	75	6.50	1.1	9	7	19	4700	100	350	0.9	2900	8
YYJA02857	32.4962	81.0195	6.0	75	6.50	7.1	46	48	200	-2200	130	580	1.6	5400	17

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA02858	32.4962	81.0195	6.0	75	6.50	7.4	35	43	165	3600	150	510	1.6	5200	13
YYJA02859	32.4962	81.0195	6.0	75	6.50	10.5	50	102	296	-9100	150	940	2.3	8100	27
YYJA02956	32.5323	80.9867	6.0	80	7.50	0.3	-4	9	-35	-2100	20	160	0.4	600	3
YYJA02957	32.5323	80.9867	6.0	80	7.50	3.4	26	32	165	2400	160	500	2.0	4700	14
YYJA02958	32.5323	80.9867	6.0	80	7.50	2.7	13	23	42	2200	170	690	1.6	5000	16
YYJA02959	32.5323	80.9867	6.0	80	7.50	10.3	M	M	M	M	M	M	M	M	M
YYJA03056	32.6014	81.0185	4.4	60	2.50	0.4	M	4	M	M	10	M	0.2	400	1
YYJA03057	32.6014	81.0185	4.4	60	2.50	1.5	M	12	M	M	10	M	0.4	800	3
YYJA03058	32.6014	81.0185	4.4	60	2.50	0.4	M	5	M	M	10	M	0.3	800	2
YYJA03059	32.6014	81.0185	4.4	60	2.50	20.5	M	M	M	M	M	M	M	M	M
YYJA03156	32.6489	81.0156	4.7	45	3.50	0.2	M	1	M	M	10	M	0.1	300	1
YYJA03157	32.6489	81.0156	4.7	45	3.50	1.7	M	16	M	M	30	M	0.6	1900	6
YYJA03158	32.6489	81.0156	4.7	45	3.50	0.4	M	7	M	M	40	M	0.4	2600	3
YYJA03159	32.6489	81.0156	4.7	45	3.50	26.9	M	M	M	M	M	M	M	M	M
YYJA03256	32.6786	81.0349	5.7	70	6.50	0.1	M	2	M	M	M	M	0.1	400	1
YYJA03257	32.6786	81.0349	5.7	70	6.50	1.9	M	23	M	M	20	M	0.5	1700	3
YYJA03258	32.6786	81.0349	5.7	70	6.50	1.6	M	24	M	M	30	M	0.4	2600	6
YYJA03259	32.6786	81.0349	5.7	70	6.50	25.9	M	M	M	M	M	M	M	M	M
YYJA03356	32.8827	81.2083	6.1	100	10.50	5.6	26	68	134	-2700	80	90	1.6	5200	13
YYJA03357	32.8827	81.2083	6.1	100	10.50	0.8	7	-2	26	-1900	30	100	0.5	1400	4
YYJA03358	32.8827	81.2083	6.1	100	10.50	2.1	14	27	M	-7800	40	50	1.1	2700	7
YYJA03359	32.8827	81.2083	6.1	100	10.50	32.4	144	558	792	-4400	180	330	6.6	13400	33
YYJA03456	32.8526	81.1608	6.5	130	17.50	0.4	-2	3	-8	-400	120	960	0.9	3400	6
YYJA03457	32.8526	81.1608	6.5	130	17.50	3.6	22	38	81	3000	380	2290	2.3	11000	28
YYJA03458	32.8526	81.1608	6.5	130	17.50	1.4	12	20	-23	5000	140	690	1.0	4200	12
YYJA03459	32.8526	81.1608	6.5	130	17.50	11.1	54	123	246	4100	270	1640	3.2	7700	23
YYJA03556	32.8821	81.1642	8.1	120	8.10	0.9	12	1	59	4300	40	320	0.9	600	3
YYJA03557	32.8821	81.1642	8.1	120	8.10	1.4	6	14	40	1000	30	220	0.8	1900	6
YYJA03558	32.8821	81.1642	8.1	120	8.10	0.6	4	12	17	1400	30	190	0.5	1500	5
YYJA03559	32.8821	81.1642	8.1	120	8.10	7.9	45	112	216	6800	140	690	3.0	7700	23
YYJA03656	32.8368	81.1317	6.7	120	20.50	0.3	-1	1	-9	800	40	350	0.3	600	2
YYJA03657	32.8368	81.1317	6.7	120	20.50	2.1	30	17	172	6000	190	1820	3.6	2900	10
YYJA03658	32.8368	81.1317	6.7	120	20.50	1.1	3	13	39	-1300	150	1630	0.9	3200	9
YYJA03659	32.8368	81.1317	6.7	120	20.50	7.4	33	67	153	2300	M	10	2.9	M	M
YYJA03756	32.7372	81.1541	7.1	130	9.10	0.1	-1	-2	-16	-1400	10	20	0.2	600	2
YYJA03757	32.7372	81.1541	7.1	130	9.10	1.4	11	23	-11	-3400	30	40	0.4	2800	8
YYJA03758	32.7372	81.1541	7.1	130	9.10	1.5	-2	22	29	-1000	30	20	0.5	2200	6
YYJA03759	32.7372	81.1541	7.1	130	9.10	25.6	116	477	592	-4100	70	80	5.4	8700	26
YYJA03856	32.7222	81.1396	6.6	95	20.50	0.3	-3	2	18	-10000	10	20	-0.1	600	2
YYJA03857	32.7222	81.1396	6.6	95	20.50	1.3	6	20	17	-1000	20	30	0.4	1700	4
YYJA03858	32.7222	81.1396	6.6	95	20.50	1.6	8	20	27	-1200	30	30	0.7	1900	5
YYJA03859	32.7222	81.1396	6.6	95	20.50	9.3	49	118	235	5200	40	110	1.1	5600	13
YYJA03956	32.5162	81.0427	7.6	215	20.10	0.3	-2	2	-9	3100	90	380	0.7	2300	8
YYJA03957	32.5162	81.0427	7.6	215	20.10	3.5	56	25	249	4000	120	350	1.1	3300	14
YYJA03958	32.5162	81.0427	7.6	215	20.10	4.6	27	25	127	1600	170	350	1.4	4600	13
YYJA03959	32.5162	81.0427	7.6	215	20.10	4.3	18	41	77	4600	70	440	2.2	4600	27
YYJA04056	32.6098	81.0595	6.7	50	10.50	0.2	M	2	M	-6300	10	40	-0.2	500	2
YYJA04057	32.6098	81.0595	6.7	50	10.50	1.6	10	20	49	-2400	50	150	0.5	3600	10
YYJA04058	32.6098	81.0595	6.7	50	10.50	0.6	6	10	-13	4500	40	130	0.5	3200	9
YYJA04059	32.6098	81.0595	6.7	50	10.50	7.4	37	93	176	3900	130	400	3.2	9200	28
YYJA04156	32.6698	81.0549	6.7	50	13.50	0.1	-1	M	-15	-2000	10	40	-0.2	200	1
YYJA04157	32.6698	81.0549	6.7	50	13.50	2.0	9	20	35	-3000	70	80	0.4	3100	8
YYJA04158	32.6698	81.0549	6.7	50	13.50	0.5	-2	8	-19	1700	30	50	0.7	1600	4
YYJA04159	32.6698	81.0549	6.7	50	13.50	26.9	150	342	687	11900	470	350	5.1	16100	43
YYJA04256	32.6796	81.0829	6.4	70	11.50	0.3	-2	M	-40	1900	10	120	-0.2	300	1

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA04257	32.6796	81.0829	6.4	70	11.50	0.6	3	8	16	-600	40	140	0.6	1800	4
YYJA04258	32.6796	81.0829	6.4	70	11.50	0.3	-1	5	35	-900	30	130	0.5	1500	4
YYJA04259	32.6796	81.0829	6.4	70	11.50	14.2	77	259	387	8200	360	1140	4.2	16500	44
YYJA04356	32.6851	81.1113	6.8	65	18.50	0.1	-3	-2	-43	-4500	10	120	-0.2	300	1
YYJA04357	32.6851	81.1113	6.8	65	18.50	1.7	7	19	-37	-1900	80	250	0.4	3200	8
YYJA04358	32.6851	81.1113	6.8	65	18.50	0.6	10	7	47	6300	70	250	0.7	3100	8
YYJA04359	32.6851	81.1113	6.8	65	18.50	18.4	M	M	M	M	200	620	M	7200	27
YYJA04456	32.7157	81.0914	5.8	90	5.50	0.1	M	M	-9	-3800	10	40	-0.1	300	1
YYJA04457	32.7157	81.0914	5.8	90	5.50	0.9	8	12	-15	2700	40	140	0.5	2400	6
YYJA04458	32.7157	81.0914	5.8	90	5.50	0.4	-1	7	-24	-600	20	80	0.3	1300	3
YYJA04459	32.7157	81.0914	5.8	90	5.50	8.1	91	302	496	5800	110	330	5.6	6700	16
YYJA04556	32.7074	81.0798	5.3	40	6.50	0.1	-1	M	-17	-1500	M	30	-0.2	200	1
YYJA04557	32.7074	81.0798	5.3	40	6.50	0.5	-2	6	-5	-1200	10	60	0.4	900	3
YYJA04558	32.7074	81.0798	5.3	40	6.50	0.2	-3	4	-27	-1600	10	50	-0.2	600	2
YYJA04559	32.7074	81.0798	5.3	40	6.50	5.0	22	57	104	2500	70	320	1.5	6100	20
YYJA04656	32.5488	81.1668	6.4	60	12.50	0.6	9	1	23	2600	10	90	1.5	500	4
YYJA04657	32.5488	81.1668	6.4	60	12.50	2.2	11	14	42	7900	60	210	1.9	2400	19
YYJA04658	32.5488	81.1668	6.4	60	12.50	1.1	7	7	29	6400	40	160	1.0	1600	13
YYJA04659	32.5488	81.1668	6.4	60	12.50	3.2	19	35	90	18000	70	290	4.1	3300	30
YYJA04756	32.5854	81.2010	6.2	100	13.50	0.5	-2	5	18	-1500	30	110	0.4	900	3
YYJA04757	32.5854	81.2010	6.2	100	13.50	3.2	12	29	72	1200	60	210	1.0	2600	8
YYJA04758	32.5854	81.2010	6.2	100	13.50	3.5	47	75	230	3900	50	160	2.0	2000	5
YYJA04759	32.5854	81.2010	6.2	100	13.50	5.4	21	51	114	2500	60	180	1.1	2700	9
YYJA04856	32.6947	81.1570	6.9	100	13.25	0.1	-5	1	-50	-500	10	30	0.2	600	2
YYJA04857	32.6947	81.1570	6.9	100	13.25	1.8	10	22	-28	-3800	20	30	0.7	1900	5
YYJA04858	32.6947	81.1570	6.9	100	13.25	1.6	5	20	51	-1200	40	40	0.6	3400	9
YYJA04859	32.6947	81.1570	6.9	100	13.25	16.5	69	230	282	-4200	130	140	2.6	13800	37
YYJA04956	32.6523	81.1412	6.2	130	20.50	1.3	5	10	22	1600	80	130	0.9	2400	7
YYJA04957	32.6523	81.1412	6.2	130	20.50	16.6	117	127	475	-2800	140	200	3.3	6100	16
YYJA04958	32.6523	81.1412	6.2	130	20.50	12.3	82	86	340	-2500	140	220	1.0	5900	16
YYJA04959	32.6523	81.1412	6.2	130	20.50	13.8	89	157	353	6900	80	410	2.2	6900	23
YYJA05056	32.5921	81.1077	5.5	50	14.50	0.1	-3	-2	-34	-4800	M	20	-0.5	500	2
YYJA05057	32.5921	81.1077	5.5	50	14.50	2.8	11	34	52	3100	90	90	1.2	7300	18
YYJA05058	32.5921	81.1077	5.5	50	14.50	1.2	3	22	-22	-2000	60	60	0.7	4300	11
YYJA05059	32.5921	81.1077	5.5	50	14.50	21.2	109	297	467	5700	280	230	5.0	19500	43
YYJA05156	32.5769	81.0978	5.7	45	9.50	0.2	M	-2	M	-9200	20	40	-0.5	1100	4
YYJA05157	32.5769	81.0978	5.7	45	9.50	1.7	6	21	64	-1100	70	70	1.0	4900	13
YYJA05158	32.5769	81.0978	5.7	45	9.50	0.6	2	6	-41	-300	M	3310	0.6	M	8
YYJA05159	32.5769	81.0978	5.7	45	9.50	17.2	M	M	M	M	420	330	M	31900	68
YYJA05256	32.7350	80.9789	5.9	80	11.50	0.6	-7	11	-11	-2000	30	90	-1.1	1300	4
YYJA05257	32.7350	80.9789	5.9	80	11.50	7.1	30	99	151	-2900	180	270	2.1	7700	19
YYJA05258	32.7350	80.9789	5.9	80	11.50	2.0	6	39	39	2900	160	210	1.4	7600	18
YYJA05259	32.7350	80.9789	5.9	80	11.50	121.1	590	1528	2676	23900	1250	890	17.9	48900	113
YYJA05356	32.7509	81.0385	5.4	30	4.50	0.1	-3	2	-27	-1200	10	40	0.3	700	3
YYJA05357	32.7509	81.0385	5.4	30	4.50	15.6	71	193	302	5100	280	160	2.7	13900	35
YYJA05358	32.7509	81.0385	5.4	30	4.50	5.6	29	80	143	-5400	130	60	2.3	7300	19
YYJA05359	32.7509	81.0385	5.4	30	4.50	88.7	524	1165	2356	10700	680	260	13.9	-200	80
YYJA05456	32.7775	81.0540	6.9	60	9.50	0.1	-2	-2	-16	-3400	10	150	0.1	300	1
YYJA05457	32.7775	81.0540	6.9	60	9.50	1.6	7	19	42	-1100	90	240	0.9	4200	10
YYJA05458	32.7775	81.0540	6.9	60	9.50	0.4	2	4	-16	-900	40	120	0.3	1800	5
YYJA05459	32.7775	81.0540	6.9	60	9.50	11.6	69	166	334	-8100	290	500	5.0	13100	34
YYJA05556	32.9572	81.0188	6.6	90	20.50	0.3	-3	-2	-37	-1400	150	90	-0.7	2300	4
YYJA05557	32.9572	81.0188	6.6	90	20.50	8.2	81	63	387	10500	420	440	2.8	9100	23
YYJA05558	32.9572	81.0188	6.6	90	20.50	5.7	38	48	191	4900	360	360	2.0	5900	20
YYJA05559	32.9572	81.0188	6.6	90	20.50	10.9	57	84	236	9100	460	650	1.9	7800	22

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA05656	32.9275	81.0430	7.3	120	13.25	0.5	3	5	-18	-2500	150	140	0.5	1100	4
YYJA05657	32.9275	81.0430	7.3	120	13.25	3.1	12	27	M	-3100	280	500	0.9	5300	15
YYJA05658	32.9275	81.0430	7.3	120	13.25	1.2	4	11	-23	-500	140	230	0.8	2500	7
YYJA05659	32.9275	81.0430	7.3	120	13.25	11.7	49	102	242	-4000	410	710	2.9	9000	24
YYJA05756	32.9081	81.0116	7.2	120	15.25	0.7	-3	12	-20	2200	200	100	1.3	5300	14
YYJA05757	32.9081	81.0116	7.2	120	15.25	13.7	71	151	320	-7300	390	810	4.3	10300	31
YYJA05758	32.9081	81.0116	7.2	120	15.25	7.4	43	78	220	3700	180	360	1.8	5900	16
YYJA05759	32.9081	81.0116	7.2	120	15.25	8.7	38	79	174	-1700	310	800	2.0	5500	16
YYJA05956	32.8830	81.0953	7.7	245	1.25	0.2	-3	M	-22	-1800	10	80	0.3	300	1
YYJA05957	32.8830	81.0953	7.7	245	1.25	0.8	-2	9	-22	500	20	150	0.3	1400	4
YYJA05958	32.8830	81.0953	7.7	245	1.25	0.5	-3	6	-22	-4500	20	150	0.5	1200	3
YYJA05959	32.8830	81.0953	7.7	245	1.25	6.1	25	71	147	1800	80	580	1.0	4600	13
YYJA06056	32.8733	81.0815	6.7	40	6.50	0.1	3	-2	-23	-1200	10	100	0.2	200	1
YYJA06057	32.8733	81.0815	6.7	40	6.50	1.1	7	17	-18	-4300	20	290	-0.3	1900	5
YYJA06058	32.8733	81.0815	6.7	40	6.50	0.5	-1	15	20	-1000	20	150	0.4	1800	4
YYJA06059	32.8733	81.0815	6.7	40	6.50	7.9	34	116	168	-2000	40	880	1.0	6000	15
YYJA06156	32.8332	81.0548	6.8	160	0.55	1.9	4	9	23	3400	40	230	1.8	4300	22
YYJA06157	32.8332	81.0548	6.8	160	0.55	2.5	10	22	-24	2500	70	270	1.4	5700	19
YYJA06158	32.8332	81.0548	6.8	160	0.55	0.9	8	7	44	4500	40	140	0.7	3300	11
YYJA06159	32.8332	81.0548	6.8	160	0.55	4.0	19	58	146	-3500	70	290	2.3	5800	18
YYJA06256	32.8931	81.2021	7.4	140	14.10	4.7	26	25	106	5600	240	860	1.6	2600	11
YYJA06257	32.8931	81.2021	7.4	140	14.10	4.0	7	22	55	2800	250	1650	0.8	3100	11
YYJA06258	32.8931	81.2021	7.4	140	14.10	2.7	-2	10	-14	1900	200	1770	0.7	1600	9
YYJA06259	32.8931	81.2021	7.4	140	14.10	7.1	10	39	66	7500	1010	2370	2.9	3800	30
YYJA06356	32.9044	81.2273	7.3	120	9.10	0.8	13	11	75	6700	170	280	1.9	1900	6
YYJA06357	32.9044	81.2273	7.4	120	9.10	2.0	14	19	53	-3930	210	540	1.1	2600	8
YYJA06358	32.9044	81.2273	7.4	120	9.10	1.7	10	14	42	-1130	250	600	0.7	3300	9
YYJA06359	32.9044	81.2273	7.4	120	9.10	4.4	21	41	91	1830	250	690	1.5	3900	11
YYJA06456	32.8658	81.2378	6.7	80	15.50	0.2	-1	1	-6	-1040	10	60	0.3	800	2
YYJA06457	32.8658	81.2378	6.7	80	15.50	1.4	6	20	33	-1140	10	100	0.7	2600	7
YYJA06458	32.8658	81.2378	6.7	80	15.50	0.7	-3	12	-58	-1140	10	90	0.6	2000	5
YYJA06459	32.8658	81.2378	6.7	80	15.50	2.1	5	41	-6	-740	10	100	0.9	2600	7
YYJA06556	32.8663	81.1932	4.1	95	0.50	0.1	-3	1	-10	-1900	10	50	0.2	500	1
YYJA06557	32.8663	81.1932	4.1	95	0.50	2.0	10	25	23	-1300	10	70	0.6	2200	5
YYJA06558	32.8663	81.1932	4.1	95	0.50	0.8	3	15	-7	-900	20	90	0.4	2600	6
YYJA06559	32.8663	81.1932	4.1	95	0.50	7.2	35	102	214	-2740	20	140	1.4	4300	9
YYJA06656	32.7514	81.2187	5.5	170	7.50	0.2	2	3	-7	-2900	20	60	0.3	700	2
YYJA06657	32.7514	81.2187	5.5	170	7.50	1.6	20	20	101	-1700	20	100	1.4	2100	5
YYJA06658	32.7514	81.2187	5.5	170	7.50	1.2	5	17	23	2100	20	60	0.3	1600	4
YYJA06659	32.7514	81.2187	5.5	170	7.50	9.1	43	136	218	-2000	30	190	1.8	4600	12
YYJA06756	32.7506	81.2013	.	.	.	0.2	-3	3	-20	-2200	10	30	0.3	700	3
YYJA06757	32.7506	81.2013	.	.	.	0.6	-2	8	-7	-1400	10	30	0.5	900	4
YYJA06758	32.7506	81.2013	.	.	.	0.9	6	9	21	-800	10	30	0.3	800	3
YYJA06759	32.7506	81.2013	.	.	.	2.4	13	33	34	-2300	10	80	1.6	2100	9
YYJA06856	32.6357	81.0195	4.2	70	0.50	0.0	-1	-2	-7	-2000	M	30	-0.1	100	1
YYJA06857	32.6357	81.0195	4.2	70	0.50	1.4	17	17	94	6400	60	70	0.9	2500	6
YYJA06858	32.6357	81.0195	4.2	70	0.50	2.3	8	36	37	2600	140	90	0.6	5800	14
YYJA06859	32.6357	81.0195	4.2	70	0.50	1.9	7	19	38	-1300	80	80	0.5	3200	8
YYJA06956	32.5474	81.0366	.	.	.	0.1	M	M	M	-5100	M	20	-0.2	100	1
YYJA06957	32.5474	81.0366	.	.	.	0.8	8	12	-23	3900	20	40	0.6	2300	6
YYJA06958	32.5474	81.0366	.	.	.	0.1	-3	2	-15	-1100	10	40	0.4	800	3
YYJA06959	32.5474	81.0366	.	.	.	1.5	7	20	24	-1000	30	40	0.5	2900	7
YYJA07056	32.5041	81.0465	6.7	80	9.50	3.1	18	14	92	-8300	130	1140	2.4	4400	19
YYJA07057	32.5041	81.0465	6.7	80	9.50	5.3	33	71	156	9600	110	780	3.6	5500	23
YYJA07058	32.5041	81.0465	6.7	80	9.50	3.0	13	15	76	6400	80	880	2.0	3800	19

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA070S9	32.5041	81.0465	6.7	80	9.50	4.2	18	33	83	4400	140	910	2.4	6600	27
YYJA071S6	32.5934	81.0689	.	.	.	0.3	-3	5	-32	-2500	10	60	0.2	1000	4
YYJA071S7	32.5934	81.0689	.	.	.	2.3	11	34	-15	-3100	60	140	1.4	5100	16
YYJA071S8	32.5934	81.0689	.	.	.	1.4	7	43	-44	-8800	90	150	0.8	7100	18
YYJA071S9	32.5934	81.0689	.	.	.	6.0	28	74	142	2100	90	150	1.6	6800	18
YYJA072S6	32.6002	81.1383	4.9	70	3.50	0.1	-4	-2	-38	-2400	10	130	0.2	400	2
YYJA072S7	32.6002	81.1383	4.9	70	3.50	1.5	5	21	27	-1100	40	210	0.6	M	9
YYJA072S8	32.6002	81.1383	4.9	70	3.50	1.0	5	14	-80	-3400	40	130	0.7	2300	7
YYJA072S9	32.6002	81.1383	4.9	70	3.50	2.3	9	29	56	1600	30	260	0.9	2300	9
YYJA073S6	32.6439	81.1761	.	.	.	0.7	-5	5	-96	-7700	60	2030	1.6	3900	12
YYJA073S7	32.6439	81.1761	.	.	.	3.8	10	38	55	7100	90	1310	1.7	5200	19
YYJA073S8	32.6439	81.1761	.	.	.	1.8	8	21	-6	2900	60	900	1.1	3900	12
YYJA073S9	32.6439	81.1761	.	.	.	7.0	28	79	128	11400	150	2080	2.1	7700	35
YYJA074S6	32.6513	81.2162	.	.	.	1.1	8	14	-9	-1300	70	380	0.5	3000	9
YYJA074S7	32.6513	81.2162	.	.	.	19.7	164	147	700	8700	190	1260	2.0	8700	25
YYJA074S8	32.6513	81.2162	.	.	.	23.2	145	162	737	5500	270	1150	1.6	11100	35
YYJA074S9	32.6513	81.2162	.	.	.	17.5	135	144	647	9800	170	1380	1.3	8200	25
YYJA075S6	32.6170	81.2069	5.9	30	6.50	0.3	-3	3	-72	-1000	20	220	0.3	700	3
YYJA075S7	32.6170	81.2069	5.9	30	6.50	4.9	16	37	80	-2100	90	340	1.7	4000	14
YYJA075S8	32.6170	81.2069	5.9	30	6.50	4.2	18	30	183	-4700	90	240	-0.5	4200	12
YYJA075S9	32.6170	81.2069	5.9	30	6.50	3.8	34	115	200	6000	60	210	4.6	2800	12
YYJA076S6	32.6026	81.1826	5.9	40	6.50	0.4	M	M	21	-2700	10	60	0.8	1000	6
YYJA076S7	32.6026	81.1826	5.9	40	6.50	2.0	6	15	17	1600	40	100	1.8	3000	16
YYJA076S8	32.6026	81.1826	5.9	40	6.50	1.3	3	9	17	-800	30	70	1.0	2100	10
YYJA076S9	32.6026	81.1826	5.9	40	6.50	2.7	8	21	40	1800	70	140	1.9	4200	20
YYJA077S6	32.5895	80.9270	6.9	38000	1.05	0.4	4	3	27	6000	70	570	1.6	2000	5
YYJA077S7	32.5895	80.9270	6.9	38000	1.05	4.3	26	81	92	7500	190	910	1.9	6200	17
YYJA077S8	32.5895	80.9270	6.9	38000	1.05	4.1	18	67	82	3800	230	730	1.3	9200	22
YYJA077S9	32.5895	80.9270	6.9	38000	1.05	33.7	184	489	805	12500	620	1520	7.6	22300	55
YYJA078S6	32.5355	80.9578	6.3	265	15.50	0.8	-2	2	18	-1500	40	360	1.3	1400	16
YYJA078S7	32.5355	80.9578	6.3	265	15.50	1.4	4	8	30	3800	50	350	1.8	2000	17
YYJA078S8	32.5355	80.9578	6.3	265	15.50	1.0	14	22	67	8600	40	240	4.0	2100	12
YYJA078S9	32.5355	80.9578	6.3	265	15.50	3.0	12	32	82	10800	100	880	5.4	3700	33
YYJA079S6	32.5711	80.9409	6.4	60	11.50	0.4	-2	1	-44	1500	20	180	0.8	600	6
YYJA079S7	32.5711	80.9409	6.4	60	11.50	2.1	10	26	60	5000	100	540	2.5	4300	22
YYJA079S8	32.5711	80.9409	6.4	60	11.50	1.2	4	11	41	6300	90	330	1.9	3800	16
YYJA079S9	32.5711	80.9409	6.4	60	11.50	4.4	52	115	274	30100	130	1270	11.5	5100	36
YYJA080S6	32.7168	80.8736	6.1	60	9.50	0.1	-2	M	-26	-2500	10	30	-0.3	200	1
YYJA080S7	32.7168	80.8736	6.1	60	9.50	1.6	5	19	-11	-3100	50	100	0.4	2500	6
YYJA080S8	32.7168	80.8736	6.1	60	9.50	0.6	-1	6	-14	-500	40	80	0.4	1700	5
YYJA080S9	32.7168	80.8736	6.1	60	9.50	5.7	29	66	118	2100	1220	31450	1.5	24100	-1
YYJA081S6	32.7520	80.8938	4.3	70	0.50	0.1	-2	1	-23	-3500	10	40	0.2	300	1
YYJA081S7	32.7520	80.8938	4.3	70	0.50	1.9	9	21	48	-900	50	80	0.6	2200	6
YYJA081S8	32.7520	80.8938	4.3	70	0.50	1.2	7	17	21	-2400	50	60	0.3	2000	5
YYJA081S9	32.7520	80.8938	4.3	70	0.50	2.5	15	31	60	-1800	70	100	0.6	3100	7
YYJA082S6	32.7450	80.9220	5.0	40	3.50	0.1	-1	-2	-3	-1500	M	20	0.1	300	2
YYJA082S7	32.7450	80.9220	5.0	40	3.50	1.4	7	17	29	-1300	30	30	0.5	2200	7
YYJA082S8	32.7450	80.9220	5.0	40	3.50	0.3	-2	4	-11	-2200	20	40	0.5	1600	5
YYJA082S9	32.7450	80.9220	5.0	40	3.50	1.6	7	18	28	-1100	30	40	0.7	2700	8
YYJA083S6	32.7065	80.8277	6.3	110	11.50	0.1	-2	M	-16	-1500	10	20	0.1	300	1
YYJA083S7	32.7065	80.8277	6.3	110	11.50	7.0	39	97	181	5200	320	590	2.0	13900	34
YYJA083S8	32.7065	80.8277	6.3	110	11.50	4.4	74	61	311	13000	190	280	4.5	8200	21
YYJA083S9	32.7065	80.8277	6.3	110	11.50	14.6	93	232	474	-4300	170	630	3.2	6600	17
YYJA084S6	32.6597	80.8624	6.0	85	7.50	0.3	-5	2	-53	-1400	30	330	0.6	900	6
YYJA084S7	32.6597	80.8624	6.0	85	7.50	2.5	9	24	37	5500	130	590	1.5	4400	18

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA - SEDIMENTS

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	TI PPM	V PPM
YYJA08458	32.6597	80.8624	6.0	85	7.50	1.1	4	14	-18	3100	70	400	1.1	2400	10
YYJA08459	32.6597	80.8624	6.0	85	7.50	2.0	31	23	88	20700	170	780	5.7	5800	23
YYJA08556	32.6099	80.8614	6.7	3000	17.50	0.2	-2	-2	-15	-2400	20	460	0.4	600	3
YYJA08557	32.6099	80.8614	6.7	3000	17.50	4.5	28	57	91	6900	180	1090	2.0	7200	21
YYJA08558	32.6099	80.8614	6.7	3000	17.50	2.7	12	44	58	5500	130	770	0.9	4800	16
YYJA08559	32.6099	80.8614	6.7	3000	17.50	11.7	59	122	306	6800	260	2960	4.1	7900	28
YYJA08656	32.5164	80.9443	4.6	100	3.50	0.7	13	14	37	2700	40	180	1.5	1300	6
YYJA08657	32.5164	80.9443	4.6	100	3.50	2.5	11	26	77	4300	80	600	1.4	2900	10
YYJA08658	32.5164	80.9443	4.6	100	3.50	1.2	7	9	27	2800	60	460	0.6	2700	8
YYJA08659	32.5164	80.9443	4.6	100	3.50	8.9	49	71	221	4400	150	1490	2.4	5800	20
YYJA08756	32.7916	80.9060	5.7	50	4.50	0.1	-2	M	-14	-1700	10	290	-0.3	300	1
YYJA08757	32.7916	80.9060	5.7	50	4.50	4.0	20	54	106	3400	120	450	1.2	4800	12
YYJA08758	32.7916	80.9060	5.7	50	4.50	1.5	-3	12	-21	-4600	M	M	-0.4	M	M
YYJA08759	32.7916	80.9060	5.7	50	4.50	10.3	35	113	173	4900	210	610	1.6	8100	20
YYJA08856	32.8088	80.9281	4.9	40	3.50	0.1	1	-2	-4	-2500	M	M	0.2	M	M
YYJA08857	32.8088	80.9281	4.9	40	3.50	3.4	7	32	51	-3400	M	M	1.1	M	M
YYJA08858	32.8088	80.9281	4.9	40	3.50	0.6	6	7	-5	3900	50	120	0.5	2600	7
YYJA08859	32.8088	80.9281	4.9	40	3.50	11.9	43	115	189	5800	M	M	1.0	M	M
YYJA08956	32.8276	80.9629	3.9	90	0.50	0.2	-2	1	-13	-3400	20	50	0.2	900	4
YYJA08957	32.8276	80.9629	3.9	90	0.50	3.2	11	37	63	3200	M	M	1.4	M	M
YYJA08958	32.8276	80.9629	3.9	90	0.50	1.2	5	18	-46	-1600	90	80	0.8	2200	16
YYJA08959	32.8276	80.9629	3.9	90	0.50	1.5	7	23	-13	-1200	M	M	1.0	M	M
YYJA09056	32.8209	81.0288	4.3	65	1.50	0.1	-2	-2	-11	1500	M	20	-0.5	200	2
YYJA09057	32.8209	81.0288	4.3	65	1.50	3.1	9	32	53	4500	M	M	0.8	M	M
YYJA09058	32.8209	81.0288	4.3	65	1.50	0.4	-2	5	-24	-3900	20	30	0.3	1200	5
YYJA09059	32.8209	81.0288	4.3	65	1.50	2.6	9	32	-28	5500	40	30	0.8	2400	7
YYJA09256	32.7619	81.0643	5.1	90	3.50	0.2	-3	1	-18	-3500	10	50	-0.2	300	2
YYJA09257	32.7619	81.0643	5.1	90	3.50	3.5	11	38	42	2500	90	210	2.0	M	14
YYJA09258	32.7619	81.0643	5.1	90	3.50	0.5	-2	7	-15	-1100	M	M	0.3	M	M
YYJA09259	32.7619	81.0643	5.1	90	3.50	4.9	21	69	73	4200	110	200	1.4	5900	16

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA---- SEDIMENTS -----
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU

YYJA00156	1800	-0.1	-1.7	-1	1	-0.8	-0.2
YYJA00157	2900	2.4	-4.6	22	7	-2.4	-0.7
YYJA00158	2700	0.7	-0.8	8	1	-0.2	-0.3
YYJA00159	13100	37.8	14.1	356	92	19.8	3.8
YYJA00256	1500	0.8	-0.3	8	2	-1.2	-0.1
YYJA00257	4700	4.2	-1.9	39	14	2.6	0.3
YYJA00258	5600	6.6	-7.4	83	25	-2.8	0.3
YYJA00259	11300	19.0	-3.8	161	37	5.9	1.8
YYJA00356	2200	-0.3	-5.0	6	1	-1.0	-0.1
YYJA00357	7200	10.1	-7.8	68	11	-2.2	0.7
YYJA00358	4800	7.0	M	99	23	-1.7	0.7
YYJA00359	16000	22.8	6.2	276	37	15.5	2.8
YYJA00456	M	M	M	M	M	M	M
YYJA00457	5100	6.8	-7.9	75	6	2.2	0.4
YYJA00458	6600	M	-1.9	85	7	2.9	0.5
YYJA00459	M	M	M	M	M	M	M
YYJA00556	3400	0.4	-3.2	3	2	-1.5	-0.5
YYJA00557	7500	4.4	-3.1	34	5	3.1	0.4
YYJA00558	4100	1.5	-9.0	24	5	-2.3	-0.4
YYJA00559	8800	11.2	-1.5	86	20	6.3	0.9
YYJA00656	2800	0.3	-1.0	3	-0	-0.6	-0.0
YYJA00657	5900	3.1	-4.1	14	6	-2.8	-0.9
YYJA00658	3500	0.9	-1.1	3	1	-1.5	-0.3
YYJA00659	16700	14.1	1.6	94	12	9.6	1.7
YYJA00756	800	0.2	-1.1	3	0	-0.9	-0.2
YYJA00757	4200	1.5	-2.0	14	4	-1.6	0.4
YYJA00758	3700	-0.5	8.7	-4	-1	-2.7	-0.6
YYJA00759	15500	38.1	-2.3	305	29	23.1	4.1
YYJA00856	1100	-0.9	-0.5	4	1	-0.7	-0.2
YYJA00857	3400	6.0	-1.9	62	13	5.3	0.9
YYJA00858	3400	3.8	3.0	52	10	4.0	-0.5
YYJA00859	6900	44.7	7.6	483	105	32.8	5.2
YYJA00956	1400	0.8	-0.9	10	1	-1.1	-0.4
YYJA00957	3700	6.8	2.1	68	11	2.4	0.5
YYJA00958	2500	3.1	-5.3	27	8	-2.3	-0.6
YYJA00959	10800	52.2	2.8	380	45	19.7	4.2
YYJA01056	1700	-0.7	-1.0	1	-0	-1.4	-0.3
YYJA01057	4500	8.3	-1.8	64	8	-2.8	0.8
YYJA01058	4200	11.3	-1.9	103	27	7.3	0.8
YYJA01059	11700	24.5	M	216	26	9.9	2.5
YYJA01156	1000	-0.1	-0.4	4	2	-0.7	-0.1
YYJA01157	2300	3.6	-0.8	36	7	-2.2	0.6
YYJA01158	2500	1.9	-6.9	28	5	-3.9	0.9
YYJA01159	8700	37.6	-8.1	325	89	24.8	3.2
YYJA01256	1900	1.3	-0.7	7	1	-0.2	-0.1
YYJA01257	3000	12.6	-3.0	131	21	9.6	1.1
YYJA01258	1300	4.6	-2.9	87	11	-1.0	0.4
YYJA01259	2000	12.2	-2.9	139	15	6.9	1.2
YYJA01356	900	0.3	-0.4	2	1	-0.6	-0.1
YYJA01357	1800	2.7	-1.8	21	7	-0.9	0.3

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYJA01358	1500	2.3	-1.0	21	5	-1.1	-0.3
YYJA01359	7200	11.8	3.4	200	24	16.1	2.8
YYJA01456	10500	1.7	-3.1	14	3	-0.9	0.3
YYJA01457	10000	2.2	-2.7	11	2	-0.6	0.2
YYJA01458	6200	-0.2	-1.6	6	1	-0.9	-0.3
YYJA01459	10400	3.2	-0.9	61	6	7.6	1.1
YYJA01556	500	-0.2	-2.8	-1	M	-4.6	M
YYJA01557	2100	3.8	-1.2	34	8	2.6	0.4
YYJA01558	2000	3.8	-3.2	26	8	1.4	0.3
YYJA01559	9200	15.0	-1.4	124	19	7.0	1.9
YYJA01656	900	0.4	-0.5	6	1	-0.5	-0.1
YYJA01657	1900	2.7	-2.5	84	10	-1.0	0.5
YYJA01658	2700	2.5	3.8	32	6	-1.1	0.1
YYJA01659	6600	30.2	2.6	278	59	20.1	2.7
YYJA01756	900	0.2	-0.5	1	M	-0.8	-0.1
YYJA01757	2400	2.8	-0.8	16	5	-0.7	0.3
YYJA01758	1800	-0.2	-0.6	3	M	-0.4	0.0
YYJA01759	8800	33.2	7.7	746	77	48.1	8.8
YYJA01856	3200	0.8	-1.7	6	2	-1.5	-0.4
YYJA01857	4000	4.6	-1.3	41	11	5.4	0.5
YYJA01858	6300	1.7	-3.3	9	3	-1.5	-0.4
YYJA01859	17500	30.4	7.1	407	75	28.5	4.6
YYJA01956	2200	0.4	-3.6	13	3	-17.0	M
YYJA01957	7200	6.8	3.8	61	14	-1.4	-0.3
YYJA01958	3800	1.3	-0.3	7	2	-0.3	-0.4
YYJA01959	19700	80.4	6.5	852	149	64.0	9.4
YYJA02056	4900	2.5	-0.8	23	4	-1.4	0.2
YYJA02057	10900	10.2	-5.4	99	20	-2.6	1.1
YYJA02058	10500	5.4	-2.9	36	15	-2.0	-0.6
YYJA02059	22400	12.3	-8.6	111	18	-1.4	1.0
YYJA02156	2800	-1.0	-1.5	6	3	-0.8	-0.3
YYJA02157	33200	21.7	M	139	39	-1.4	1.6
YYJA02158	11400	9.9	-7.1	87	15	7.3	0.9
YYJA02159	M	8.4	-1.2	131	19	8.1	1.1
YYJA02256	27500	-1.4	-2.7	9	5	-2.1	-0.4
YYJA02257	26700	3.9	-2.0	28	6	-1.2	-0.2
YYJA02258	22100	3.0	-3.5	17	3	-1.7	-0.4
YYJA02259	44900	3.7	M	54	8	-4.3	0.9
YYJA02356	4000	0.3	-1.0	4	-0	-0.5	-0.1
YYJA02357	8900	3.6	-0.8	25	5	-2.5	-0.1
YYJA02358	9300	3.6	-0.7	18	7	-1.9	-0.6
YYJA02359	29600	24.8	-4.3	273	33	13.1	3.5
YYJA02456	1300	0.4	-1.6	6	1	-1.0	-0.2
YYJA02457	3900	6.4	-3.0	64	17	-3.5	0.5
YYJA02458	3100	2.9	-2.1	38	7	-1.1	0.7
YYJA02459	18600	40.7	8.6	961	199	54.6	9.5
YYJA02556	2400	1.9	-1.5	-2	-0	-1.3	-0.3
YYJA02557	4400	4.4	-1.6	48	11	-1.0	0.4
YYJA02558	3000	3.7	-2.0	49	10	4.4	-0.2
YYJA02559	23800	158.6	8.3	1184	340	76.6	12.2

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA---- SEDIMENTS -----
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYJA02656	1300	1.5	-0.9	4	2	-1.0	-0.2
YYJA02657	2800	4.5	-6.5	34	7	-5.0	-0.1
YYJA02658	3200	1.1	-1.3	10	3	-0.6	-0.2
YYJA02659	17300	102.6	15.5	1110	143	53.6	8.8
YYJA02756	1500	-0.4	-1.1	1	-0	-0.5	-0.2
YYJA02757	5000	2.5	-0.6	26	6	-1.6	0.4
YYJA02758	3700	2.2	-6.9	27	5	-1.6	-0.4
YYJA02759	20500	36.6	5.5	363	96	20.6	5.3
YYJA02856	4300	2.2	-0.7	19	4	-0.5	-0.2
YYJA02857	9400	13.8	2.0	94	18	7.6	1.3
YYJA02858	6600	14.3	3.1	92	12	7.7	0.9
YYJA02859	19400	20.7	-2.0	159	43	9.4	1.4
YYJA02956	3000	-0.5	-2.1	3	1	-1.7	-0.3
YYJA02957	10500	5.9	1.7	66	11	3.7	0.7
YYJA02958	11100	6.6	-0.8	29	9	-1.0	0.4
YYJA02959	M	M	M	M	M	.	M
YYJA03056	1000	0.3	M	M	M	.	M
YYJA03057	1300	0.5	M	M	M	.	M
YYJA03058	1500	M	M	M	M	.	M
YYJA03059	M	M	M	M	M	.	M
YYJA03156	800	M	M	M	M	.	M
YYJA03157	1600	0.9	M	M	M	.	M
YYJA03158	1400	M	M	M	M	.	M
YYJA03159	M	M	M	M	4	.	M
YYJA03256	600	M	M	M	M	.	M
YYJA03257	1700	0.6	M	M	M	.	M
YYJA03258	2000	0.9	M	M	M	.	M
YYJA03259	M	M	M	M	M	.	M
YYJA03356	3600	6.2	-2.5	72	13	-0.2	0.9
YYJA03357	1600	0.5	-3.7	14	4	-1.5	-0.4
YYJA03358	2200	2.9	-3.9	26	5	-2.3	M
YYJA03359	10400	32.5	M	325	74	29.3	5.1
YYJA03456	6400	-1.0	-0.5	4	0	-0.6	-0.1
YYJA03457	12800	5.6	-2.0	45	9	2.9	0.6
YYJA03458	4600	1.7	0.9	25	5	-0.6	0.2
YYJA03459	11200	16.7	2.1	124	17	7.5	1.4
YYJA03556	2100	0.3	-1.1	20	3	-1.2	-0.3
YYJA03557	2400	1.9	-0.9	16	5	-0.5	0.2
YYJA03558	2300	0.9	-0.3	7	1	-0.5	-0.3
YYJA03559	9900	11.4	4.2	119	32	5.7	1.4
YYJA03656	2500	-0.6	-1.1	2	7	-0.6	-0.3
YYJA03657	8000	3.5	-1.8	80	11	7.0	0.5
YYJA03658	7300	1.5	-2.4	12	3	-1.0	-0.3
YYJA03659	M	M	-6.4	82	9	3.0	1.0
YYJA03756	700	-0.3	-1.1	M	M	-0.3	-0.1
YYJA03757	2500	2.6	-2.3	23	5	-2.1	0.3
YYJA03758	1800	2.5	-3.3	14	4	-0.8	-0.1
YYJA03759	6300	27.5	3.7	261	62	24.3	4.1
YYJA03856	700	1.1	-1.3	2	M	-1.6	-0.5
YYJA03857	1400	1.3	-0.7	16	3	-0.6	-0.1

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA---- SEDIMENTS -----
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYJA03858	1300	1.9	-3.0	19	5	-0.8	-0.2
YYJA03859	4000	10.1	-7.9	136	23	7.2	0.2
YYJA03956	4900	2.0	-0.8	1	M	-1.1	-0.3
YYJA03957	8400	-0.4	-2.2	143	10	9.8	0.9
YYJA03958	6800	10.4	-5.7	64	10	6.5	1.2
YYJA03959	22900	8.3	-4.6	47	14	4.2	0.7
YYJA04056	1100	0.3	-2.6	-2	6	-4.9	M
YYJA04057	3600	2.0	-1.5	23	5	-1.1	0.5
YYJA04058	2900	0.9	-1.5	12	2	-0.9	0.3
YYJA04059	11100	10.0	M	83	15	6.5	1.1
YYJA04156	700	M	-1.1	1	M	-0.4	-0.1
YYJA04157	2700	3.1	-4.6	28	7	-2.0	0.6
YYJA04158	1600	0.4	-1.0	6	1	-0.4	-0.1
YYJA04159	10200	26.0	-6.9	339	45	16.6	3.8
YYJA04256	1100	0.4	-0.8	9	5	-0.6	-0.3
YYJA04257	1800	M	-0.5	8	2	-1.2	-0.4
YYJA04258	1700	0.3	-1.2	3	1	-0.5	-0.2
YYJA04259	14300	25.0	M	205	52	9.5	2.8
YYJA04356	1100	-0.2	-2.8	-2	M	-0.3	-0.3
YYJA04357	2700	2.8	-2.7	17	4	-0.3	-0.3
YYJA04358	2600	1.3	-1.2	21	2	-1.5	0.2
YYJA04359	7700	8.7	M	M	M	-0.6	M
YYJA04456	600	-0.2	-2.4	-2	M	-6.4	-0.2
YYJA04457	2100	1.7	-0.3	8	3	-1.2	0.2
YYJA04458	1300	0.2	-0.4	4	1	-0.2	-0.2
YYJA04459	5100	8.9	4.4	244	24	17.6	3.5
YYJA04556	700	M	-0.7	1	M	-0.6	-0.1
YYJA04557	1300	0.9	-0.6	5	1	2.3	-0.2
YYJA04558	1100	M	-1.7	M	M	-1.3	-0.3
YYJA04559	8200	8.4	-1.0	54	16	4.5	0.8
YYJA04656	2800	1.3	2.0	16	1	4.3	0.7
YYJA04657	13100	4.0	-1.3	26	4	2.0	0.3
YYJA04658	7700	1.6	-3.1	17	2	-0.1	-0.2
YYJA04659	21600	4.5	-5.5	35	7	-2.7	-0.9
YYJA04756	1600	0.8	-2.9	7	1	-0.7	-0.1
YYJA04757	3800	7.4	-1.2	37	4	1.6	0.6
YYJA04758	2500	5.1	-2.7	113	9	9.0	1.4
YYJA04759	4900	7.2	-1.8	55	16	4.6	0.9
YYJA04856	1000	0.3	-0.9	-1	M	-2.0	-0.4
YYJA04857	1900	2.1	-5.2	26	4	-1.7	-0.4
YYJA04858	2800	2.8	-0.7	20	6	2.4	-0.2
YYJA04859	10700	22.6	5.6	154	49	8.5	2.6
YYJA04956	2000	1.3	-0.9	13	3	-0.9	-0.1
YYJA04957	4300	22.4	M	251	61	8.4	1.6
YYJA04958	4000	21.1	M	240	23	-0.9	0.8
YYJA04959	12200	17.3	13.0	192	26	20.0	2.4
YYJA05056	1100	0.2	-2.1	2	0	-1.0	-0.2
YYJA05057	4700	4.6	-1.1	28	9	3.9	0.4
YYJA05058	3300	0.7	-0.3	12	2	-0.5	0.2
YYJA05059	8800	22.0	M	245	54	17.3	3.4

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SRL I.D.
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SRL I. D.	AL	DY	EU	LA	SM	YB	LU
YYJA051S6	2000	-0.1	-4.5	-3	0	-10.2	M
YYJA051S7	4000	1.6	-0.6	19	3	-1.3	0.4
YYJA051S8	2600	-0.8	-1.2	6	1	-0.6	-0.3
YYJA051S9	15400	31.6	M	375	61	-0.3	M
YYJA052S6	1700	0.3	-7.2	4	2	-3.2	-0.3
YYJA052S7	4700	11.9	-6.6	74	21	-1.3	0.8
YYJA052S8	4700	2.4	-0.8	19	6	1.4	-0.2
YYJA052S9	15000	116.5	9.6	1332	207	83.3	12.7
YYJA053S6	1300	-0.5	-0.7	-1	0	-1.2	-0.3
YYJA053S7	6400	23.6	-9.8	183	54	7.7	1.6
YYJA053S8	4000	6.9	-4.4	75	12	-2.0	1.5
YYJA053S9	13200	-3.2	12.8	1216	143	52.9	11.6
YYJA054S6	1500	-0.3	-1.0	1	-0	-0.9	-0.2
YYJA054S7	4500	2.0	-1.3	18	5	-0.7	0.2
YYJA054S8	2300	0.6	-1.5	7	1	-1.0	-0.2
YYJA054S9	9600	20.0	M	161	23	10.2	2.7
YYJA055S6	2800	-1.1	-1.1	2	2	-1.4	-0.3
YYJA055S7	6900	12.1	-2.7	171	31	6.7	0.9
YYJA055S8	5400	-0.8	-1.8	87	11	6.5	0.7
YYJA055S9	10200	13.8	-2.6	122	22	5.5	1.1
YYJA056S6	3300	-0.9	-2.1	5	1	-1.0	-0.1
YYJA056S7	8000	7.8	-3.9	39	9	-1.8	M
YYJA056S8	4200	1.4	-1.0	11	3	-0.3	0.5
YYJA056S9	11000	12.2	M	135	34	5.8	1.4
YYJA057S6	3700	0.9	-1.0	2	1	-1.2	-0.2
YYJA057S7	8000	21.0	M	182	34	14.4	1.8
YYJA057S8	4100	11.6	-2.1	99	17	6.2	0.9
YYJA057S9	7800	11.0	-6.9	91	22	5.0	0.8
YYJA059S6	500	0.2	-1.5	3	3	1.8	-0.1
YYJA059S7	1500	0.8	-0.8	6	2	-0.7	-0.2
YYJA059S8	1400	0.3	-1.9	6	1	-1.1	-0.2
YYJA059S9	4600	7.1	-2.8	61	12	3.4	0.8
YYJA060S6	300	M	-1.2	2	M	-0.4	0.0
YYJA060S7	1300	1.1	-5.1	14	3	-1.9	-0.2
YYJA060S8	1000	0.3	-0.5	5	1	-0.4	-0.2
YYJA060S9	3300	9.9	-2.5	86	11	4.6	1.1
YYJA061S6	12200	2.7	-0.5	14	2	-0.4	-0.2
YYJA061S7	7300	3.5	-1.6	24	7	-0.7	-0.1
YYJA061S8	4600	1.0	2.5	19	2	-0.1	-0.3
YYJA061S9	7600	5.6	M	48	8	4.9	0.7
YYJA062S6	5800	3.3	-3.2	60	15	-0.6	-0.1
YYJA062S7	8200	3.1	-0.5	23	3	2.5	0.3
YYJA062S8	8200	2.7	-2.7	10	2	-0.3	0.2
YYJA062S9	18000	-0.7	-4.0	33	5	3.5	0.7
YYJA063S6	2900	-0.7	-1.6	35	4	3.9	0.3
YYJA063S7	4800	3.5	-6.0	32	5	-1.4	-0.3
YYJA063S8	5000	4.9	-0.7	24	7	-0.2	0.1
YYJA063S9	6300	5.5	-1.6	42	6	2.2	0.7
YYJA064S6	800	0.2	-0.3	2	M	-0.5	-0.1
YYJA064S7	1900	1.3	-0.6	11	4	-0.6	-0.1

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA---- SEDIMENTS -----
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYJA06458	1600	0.8	-1.7	5	1	-1.6	-0.5
YYJA06459	1800	2.3	-0.9	22	4	6.4	-0.2
YYJA06456	500	-0.2	-1.0	4	M	-1.7	-0.5
YYJA06457	1400	2.2	-3.7	20	4	-0.7	0.3
YYJA06558	1600	1.5	-1.8	8	3	-0.8	-0.2
YYJA06559	2700	8.5	-2.5	97	23	3.5	1.2
YYJA06656	600	0.2	-1.0	2	M	-0.8	0.2
YYJA06657	1700	2.8	1.6	43	7	4.7	1.0
YYJA06658	1200	2.6	-0.6	15	4	1.5	0.3
YYJA06659	3300	8.9	3.5	97	21	6.5	1.5
YYJA06756	1700	0.2	-0.7	5	M	-1.5	-0.2
YYJA06757	2500	0.8	-0.5	4	1	-0.9	-0.1
YYJA06758	1800	1.0	-3.1	14	2	-1.0	-0.3
YYJA06759	6100	2.9	-2.3	30	5	-0.8	0.7
YYJA06856	600	M	-0.5	1	M	-0.3	-0.1
YYJA06857	1700	1.4	-1.5	44	3	-0.7	0.3
YYJA06858	2400	2.5	-0.8	16	2	-0.8	0.3
YYJA06859	2200	2.5	-0.7	18	7	-0.5	0.2
YYJA06956	500	M	-2.8	1	M	-4.2	-0.7
YYJA06957	1600	1.3	-0.8	17	3	-1.0	-0.2
YYJA06958	1300	0.2	-1.1	-1	M	-1.0	0.0
YYJA06959	1900	1.6	-3.0	13	3	-0.4	0.1
YYJA07056	14900	11.4	9.7	53	7	-1.4	-0.7
YYJA07057	15400	8.6	3.2	79	13	8.2	1.3
YYJA07058	15000	3.7	2.6	27	8	-1.8	0.5
YYJA07059	16300	9.0	2.3	51	15	4.9	0.8
YYJA07156	2100	0.4	-1.1	3	1	-1.3	-0.3
YYJA07157	5200	2.0	-1.2	24	5	-1.9	0.2
YYJA07158	4800	1.3	12.4	17	4	-2.5	-0.5
YYJA07159	5600	7.2	-2.0	68	20	3.3	0.6
YYJA07256	1500	-0.5	-1.8	-2	1	-1.4	-0.3
YYJA07257	3700	-0.3	-0.7	17	3	-0.5	0.3
YYJA07258	2800	1.4	-2.1	16	3	-2.5	-0.7
YYJA07259	4000	3.7	-0.7	28	7	-2.4	-0.7
YYJA07356	5000	1.5	-5.8	-5	2	-0.2	-0.7
YYJA07357	8900	5.9	-1.3	32	7	6.5	0.6
YYJA07358	5500	2.1	-0.3	17	4	-1.8	0.2
YYJA07359	19300	13.4	7.9	66	17	9.4	1.6
YYJA07456	2700	4.1	-0.6	12	6	4.2	-0.2
YYJA07457	8300	31.2	-3.8	379	49	10.1	2.5
YYJA07458	8700	52.1	-4.3	495	118	15.7	2.3
YYJA07459	9400	23.0	-1.2	334	80	14.1	2.1
YYJA07556	2800	0.8	-0.7	7	1	-2.1	-0.6
YYJA07557	6200	10.1	-4.8	43	13	6.0	0.6
YYJA07558	5300	7.4	-1.7	107	17	-0.2	1.1
YYJA07559	6500	4.8	2.6	91	11	12.0	1.8
YYJA07656	4900	0.3	-3.0	3	1	-4.3	M
YYJA07657	10100	3.1	-2.7	16	4	3.2	0.4
YYJA07658	6600	2.6	-3.1	10	3	-0.6	0.0
YYJA07659	13300	5.3	-5.6	23	4	3.0	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA---- SEDIMENTS -----
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYJA07756	2500	0.7	-1.6	8	2	-0.7	0.4
YYJA07757	4000	4.6	2.4	59	8	-1.4	0.9
YYJA07758	4100	3.7	-4.8	43	8	-1.1	0.5
YYJA07759	7800	18.2	-8.7	450	49	22.8	4.9
YYJA07856	12200	1.1	-2.2	8	2	-1.1	-0.1
YYJA07857	11900	2.6	-0.5	11	2	1.6	-0.1
YYJA07858	8400	1.3	-1.3	30	3	-0.7	0.4
YYJA07859	26000	3.5	-6.3	38	5	2.4	0.6
YYJA07956	4000	0.4	1.3	4	1	-1.1	-0.3
YYJA07957	10400	3.1	-1.2	26	3	3.0	0.4
YYJA07958	7800	2.5	3.6	13	3	1.7	0.2
YYJA07959	21200	4.7	-3.6	139	16	7.7	1.1
YYJA08056	700	M	-1.0	2	M	-0.5	-0.2
YYJA08057	2000	2.0	-1.6	18	3	-2.2	0.2
YYJA08058	1700	0.8	-1.1	6	1	-0.5	-0.2
YYJA08059	2200	-1.0	-3.5	69	7	3.7	0.9
YYJA08156	800	0.2	1.3	3	M	-0.8	-0.2
YYJA08157	2100	3.2	-3.3	21	5	1.8	-0.1
YYJA08158	1600	1.1	-4.2	19	3	-1.7	-0.5
YYJA08159	2400	3.5	-1.5	36	11	-0.6	-0.1
YYJA08256	800	-0.2	-0.5	M	M	-0.4	0.0
YYJA08257	2300	1.7	-0.8	15	3	-0.8	0.2
YYJA08258	2100	0.5	-1.1	6	2	-0.6	0.0
YYJA08259	2200	1.8	-0.7	18	5	-1.0	0.2
YYJA08356	500	-0.2	0.7	1	M	-0.6	-0.1
YYJA08357	5900	15.6	-6.7	94	26	4.9	1.0
YYJA08358	4000	6.8	-4.6	165	18	12.8	1.9
YYJA08359	4600	15.1	-4.1	242	43	9.5	2.1
YYJA08456	4600	0.5	-0.8	3	M	-2.0	-0.5
YYJA08457	7700	3.9	-1.0	24	6	-1.2	0.2
YYJA08458	4700	1.8	-0.3	12	2	-0.9	0.2
YYJA08459	10100	5.6	2.0	60	7	-0.5	0.6
YYJA08556	1900	-0.3	-1.0	2	M	-0.9	-0.2
YYJA08557	6000	5.9	-2.2	64	12	3.5	1.0
YYJA08558	4900	2.0	-3.7	29	5	-0.9	0.1
YYJA08559	14100	16.1	-3.0	152	22	7.0	1.6
YYJA08656	3000	0.7	-0.9	24	2	-1.1	-0.3
YYJA08657	6100	2.9	M	43	7	-1.3	0.4
YYJA08658	4300	1.8	-0.4	17	4	1.4	-0.1
YYJA08659	12600	11.4	-4.2	112	21	8.4	1.2
YYJA08756	1800	0.4	-0.6	1	M	-0.6	-0.1
YYJA08757	4400	3.4	-1.5	45	9	2.6	0.4
YYJA08758	M	M	-1.3	M	M	-0.7	-0.2
YYJA08759	6900	4.6	-5.9	87	19	6.0	0.5
YYJA08856	M	M	-0.2	M	M	-0.6	-0.2
YYJA08857	M	M	3.8	34	6	-1.0	0.3
YYJA08858	2500	0.7	-0.8	6	1	-0.8	-0.1
YYJA08859	M	M	-2.8	107	M	4.0	1.1
YYJA08956	2000	0.2	-0.9	1	0	-0.7	-0.1
YYJA08957	M	M	2.6	22	3	-0.9	0.4
YYJA08958	4500	1.5	-2.8	7	6	-1.4	-0.4
YYJA08959	M	M	-2.4	11	1	-1.2	0.2
YYJA09056	1000	0.1	-1.5	-1	0	-0.8	-0.1
YYJA09057	M	M	-0.8	21	2	1.9	0.2
YYJA09058	1900	0.5	-1.7	2	1	-1.0	-0.2
YYJA09059	2100	2.1	-0.9	19	6	-0.3	-0.2
YYJA09256	1300	0.2	-2.5	2	0	-1.3	-0.2
YYJA09257	5800	-0.3	-7.9	26	5	4.3	0.5
YYJA09258	M	M	-1.2	4	0	-0.6	-0.1
YYJA09259	6200	4.9	-3.0	43	8	3.5	0.8

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

SRL I.D.	SAMPDATE	VELOCITY	STRT WIDTH	STRT DEPTH	RELIEF	STRT MILEVEL	STRT COLOR	STRT BED	VEGDENS	RELIEF	WEATHER	CONTAMN1	CONTAMN2	CONTAMN3	TEMP
YYJA00156	6/29/77	1	4	1	1	2	2	2	3	1	1	.	.	.	19
YYJA00157	6/29/77	1	4	1	1	2	2	2	3	1	1	.	.	.	19
YYJA00158	6/29/77	1	4	1	1	2	2	2	3	1	1	.	.	.	19
YYJA00159	6/29/77	1	4	1	1	2	2	2	3	1	1	.	.	.	19
YYJA00256	6/29/77	2	5	1	2	2	2	2	3	2	1	.	.	.	20
YYJA00257	6/29/77	2	5	1	2	2	2	2	3	2	1	.	.	.	20
YYJA00258	6/29/77	2	5	1	2	2	2	2	3	2	1	.	.	.	20
YYJA00259	6/29/77	2	5	1	2	2	2	2	3	2	1	.	.	.	20
YYJA00356	6/29/77	2	7	4	1	3	1	2	3	1	1	.	.	.	21
YYJA00357	6/29/77	2	7	4	1	3	1	2	3	1	1	.	.	.	21
YYJA00358	6/29/77	2	7	4	1	3	1	2	3	1	1	.	.	.	21
YYJA00359	6/29/77	2	7	4	1	3	1	2	3	1	1	.	.	.	21
YYJA00456	6/29/77	3	4	1	2	3	2	2	4	2	1	.	.	.	21
YYJA00457	6/29/77	3	4	1	2	3	2	2	4	2	1	.	.	.	21
YYJA00458	6/29/77	3	4	1	2	3	2	2	4	2	1	.	.	.	21
YYJA00459	6/29/77	3	4	1	2	3	2	2	4	2	1	.	.	.	21
YYJA00556	6/29/77	2	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00557	6/29/77	2	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00558	6/29/77	2	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00559	6/29/77	2	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00656	6/29/77	2	5	2	1	3	2	2	3	1	1	.	.	.	25
YYJA00657	6/29/77	2	5	2	1	3	2	2	3	1	1	.	.	.	25
YYJA00658	6/29/77	2	5	2	1	3	2	2	3	1	1	.	.	.	25
YYJA00659	6/29/77	2	5	2	1	3	2	2	3	1	1	.	.	.	25
YYJA00756	6/29/77	2	3	2	2	2	2	2	4	2	1	.	.	.	22
YYJA00757	6/29/77	2	3	2	2	2	2	2	4	2	1	.	.	.	22
YYJA00758	6/29/77	2	3	2	2	2	2	2	4	2	1	.	.	.	22
YYJA00759	6/29/77	2	3	2	2	2	2	2	4	2	1	.	.	.	22
YYJA00856	6/29/77	1	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00857	6/29/77	1	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00858	6/29/77	1	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00859	6/29/77	1	4	1	2	2	2	2	3	2	1	.	.	.	21
YYJA00956	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA00957	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA00958	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA00959	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA01056	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA01057	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA01058	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA01059	6/29/77	3	4	2	2	2	2	2	3	2	1	.	.	.	22
YYJA01156	6/30/77	2	4	2	2	2	1	2	3	2	2	.	.	.	19
YYJA01157	6/30/77	2	4	2	2	2	1	2	3	2	2	.	.	.	19
YYJA01158	6/30/77	2	4	2	2	2	1	2	3	2	2	.	.	.	19
YYJA01159	6/30/77	2	4	2	2	2	1	2	3	2	2	.	.	.	19
YYJA01256	6/30/77	2	4	2	1	2	2	2	3	1	2	.	.	.	20
YYJA01257	6/30/77	2	4	2	1	2	2	2	3	1	2	.	.	.	20
YYJA01258	6/30/77	2	4	2	1	2	2	2	3	1	2	.	.	.	20
YYJA01259	6/30/77	2	4	2	1	2	2	2	3	1	2	.	.	.	20
YYJA01356	6/30/77	1	4	1	2	2	2	2	3	2	2	.	.	.	20
YYJA01357	6/30/77	1	4	1	2	2	2	2	3	2	2	.	.	.	20

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

SRL I.D.	SAMPDATE	VELOCITY	STRWIDTH	STRDEPTH	RELIEF	STMLEVEL	STRCOLOR	STRBED	VEGDENS	RELIEF	WEATHER	CONTAMN1	CONTAMN2	CONTAMN3	TEMP
YYJA01358	6/30/77	1	4	1	2	2	2	2	3	2	2	.	.	.	20
YYJA01359	6/30/77	1	4	1	2	2	2	2	3	2	2	.	.	.	20
YYJA01456	6/30/77	1	4	2	2	2	2	2	4	2	2	.	.	.	20
YYJA01457	6/30/77	1	4	2	2	2	2	2	4	2	2	.	.	.	20
YYJA01458	6/30/77	1	4	2	2	2	2	2	4	2	2	.	.	.	20
YYJA01459	6/30/77	1	4	2	2	2	2	2	4	2	2	.	.	.	20
YYJA01556	6/30/77	3	4	2	2	2	2	2	3	2	2	.	.	.	20
YYJA01557	6/30/77	3	4	2	2	2	2	2	3	2	2	.	.	.	20
YYJA01558	6/30/77	3	4	2	2	2	2	2	3	2	2	.	.	.	20
YYJA01559	6/30/77	3	4	2	2	2	2	2	3	2	2	.	.	.	20
YYJA01656	6/30/77	3	6	3	2	2	3	2	2	2	1	.	.	.	22
YYJA01657	6/30/77	3	6	3	2	2	3	2	2	2	1	.	.	.	22
YYJA01658	6/30/77	3	6	3	2	2	3	2	2	2	1	.	.	.	22
YYJA01659	6/30/77	3	6	3	2	2	3	2	2	2	1	.	.	.	22
YYJA01756	6/30/77	3	5	1	1	2	2	2	2	1	1	.	.	.	23
YYJA01757	6/30/77	3	5	1	1	2	2	2	2	1	1	.	.	.	23
YYJA01758	6/30/77	3	5	1	1	2	2	2	2	1	1	.	.	.	23
YYJA01759	6/30/77	3	5	1	1	2	2	2	2	1	1	.	.	.	23
YYJA01856	6/30/77	3	5	4	2	3	2	2	3	2	1	.	.	.	24
YYJA01857	6/30/77	3	5	4	2	3	2	2	3	2	1	.	.	.	24
YYJA01858	6/30/77	3	5	4	2	3	2	2	3	2	1	.	.	.	24
YYJA01859	6/30/77	3	5	4	2	3	2	2	3	2	1	.	.	.	24
YYJA01956	6/30/77	3	3	1	2	3	2	2	3	2	1	.	.	.	22
YYJA01957	6/30/77	3	3	1	2	3	2	2	3	2	1	.	.	.	22
YYJA01958	6/30/77	3	3	1	2	3	2	2	3	2	1	.	.	.	22
YYJA01959	6/30/77	3	3	1	2	3	2	2	3	2	1	.	.	.	22
YYJA02056	7/11/77	2	5	4	2	3	2	2	3	2	1	.	.	.	18
YYJA02057	7/11/77	2	5	4	2	3	2	2	3	2	1	.	.	.	18
YYJA02058	7/11/77	2	5	4	2	3	2	2	3	2	1	.	.	.	18
YYJA02059	7/11/77	2	5	4	2	3	2	2	3	2	1	.	.	.	18
YYJA02156	7/11/77	3	6	4	1	3	2	2	3	1	1	.	.	.	20
YYJA02157	7/11/77	3	6	4	1	3	2	2	3	1	1	.	.	.	20
YYJA02158	7/11/77	3	6	4	1	3	2	2	3	1	1	.	.	.	20
YYJA02159	7/11/77	3	6	4	1	3	2	2	3	1	1	.	.	.	20
YYJA02256	7/11/77	1	4	2	1	2	2	2	4	1	1	.	.	.	22
YYJA02257	7/11/77	1	4	2	1	2	2	2	4	1	1	.	.	.	22
YYJA02258	7/11/77	1	4	2	1	2	2	2	4	1	1	.	.	.	22
YYJA02259	7/11/77	1	4	2	1	2	2	2	4	1	1	.	.	.	22
YYJA02356	7/11/77	3	5	2	2	3	2	2	3	2	1	.	.	.	19
YYJA02357	7/11/77	3	5	2	2	3	2	2	3	2	1	.	.	.	19
YYJA02358	7/11/77	3	5	2	2	3	2	2	3	2	1	.	.	.	19
YYJA02359	7/11/77	3	5	2	2	3	2	2	3	2	1	.	.	.	19
YYJA02456	7/11/77	2	4	1	2	2	2	2	3	2	1	.	.	.	18
YYJA02457	7/11/77	2	4	1	2	2	2	2	3	2	1	.	.	.	18
YYJA02458	7/11/77	2	4	1	2	2	2	2	3	2	1	.	.	.	18
YYJA02459	7/11/77	2	4	1	2	2	2	2	3	2	1	.	.	.	18
YYJA02556	7/11/77	2	5	3	1	2	2	2	3	1	1	.	.	.	20
YYJA02557	7/11/77	2	5	3	1	2	2	2	3	1	1	.	.	.	20
YYJA02558	7/11/77	2	5	3	1	2	2	2	3	1	1	.	.	.	20
YYJA02559	7/11/77	2	5	3	1	2	2	2	3	1	1	.	.	.	20

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

***** ***** ***** SRL I.D. ***** ***** ***** *****	SAMPDATE	VE LOC ITY	STR WID TH	STR DEPT H	REL IEF	STM LEVE L	STR COL UR	STR BED	VE GDENS	REL IEF	WEA THER	CONT AMN1	CONT AMN2	CONT AMN3	TEMP
YYJA02656	7/11/77	2	5	4	2	2	2	2	4	2	1	.	.	.	16
YYJA02657	7/11/77	2	5	4	2	2	2	2	4	2	1	.	.	.	16
YYJA02658	7/11/77	2	5	4	2	2	2	2	4	2	1	.	.	.	16
YYJA02659	7/11/77	2	5	4	2	2	2	2	4	2	1	.	.	.	16
YYJA02756	7/11/77	2	5	4	2	2	2	2	3	2	1	.	.	.	17
YYJA02757	7/11/77	2	5	4	2	2	2	2	3	2	1	.	.	.	17
YYJA02758	7/11/77	2	5	4	2	2	2	2	3	2	1	.	.	.	17
YYJA02759	7/11/77	2	5	4	2	2	2	2	3	2	1	.	.	.	17
YYJA02856	7/11/77	1	2	1	1	2	2	2	3	1	1	.	.	.	23
YYJA02857	7/11/77	1	2	1	1	2	2	2	3	1	1	.	.	.	23
YYJA02858	7/11/77	1	2	1	1	2	2	2	3	1	1	.	.	.	23
YYJA02859	7/11/77	1	2	1	1	2	2	2	3	1	1	.	.	.	23
YYJA02956	7/11/77	3	5	3	2	2	2	2	3	2	2	.	.	.	17
YYJA02957	7/11/77	3	5	3	2	2	2	2	3	2	2	.	.	.	17
YYJA02958	7/11/77	3	5	3	2	2	2	2	3	2	2	.	.	.	17
YYJA02959	7/11/77	3	5	3	2	2	2	2	3	2	2	.	.	.	17
YYJA03056	7/12/77	2	4	2	2	2	2	2	4	2	1	.	.	.	16
YYJA03057	7/12/77	2	4	2	2	2	2	2	4	2	1	.	.	.	16
YYJA03058	7/12/77	2	4	2	2	2	2	2	4	2	1	.	.	.	16
YYJA03059	7/12/77	2	4	2	2	2	2	2	4	2	1	.	.	.	16
YYJA03156	7/12/77	1	4	1	2	1	2	2	2	2	1	.	.	.	16
YYJA03157	7/12/77	1	4	1	2	1	2	2	2	2	1	.	.	.	16
YYJA03158	7/12/77	1	4	1	2	1	2	2	2	2	1	.	.	.	16
YYJA03159	7/12/77	1	4	1	2	1	2	2	2	2	1	.	.	.	16
YYJA03256	7/12/77	1	4	1	1	2	2	2	3	1	1	.	.	.	16
YYJA03257	7/12/77	1	4	1	1	2	2	2	3	1	1	.	.	.	16
YYJA03258	7/12/77	1	4	1	1	2	2	2	3	1	1	.	.	.	16
YYJA03259	7/12/77	1	4	1	1	2	2	2	3	1	1	.	.	.	16
YYJA03356	7/25/77	1	9	9	2	1	2	2	4	2	1	.	.	.	19
YYJA03357	7/25/77	1	9	9	2	1	2	2	4	2	1	.	.	.	19
YYJA03358	7/25/77	1	9	9	2	1	2	2	4	2	1	.	.	.	19
YYJA03359	7/25/77	1	9	9	2	1	2	2	4	2	1	.	.	.	19
YYJA03456	7/25/77	2	6	5	2	3	1	2	3	2	1	.	.	.	23
YYJA03457	7/25/77	2	6	5	2	3	1	2	3	2	1	.	.	.	23
YYJA03458	7/25/77	2	6	5	2	3	1	2	3	2	1	.	.	.	23
YYJA03459	7/25/77	2	6	5	2	3	1	2	3	2	1	.	.	.	23
YYJA03556	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	29
YYJA03557	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	29
YYJA03558	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	29
YYJA03559	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	29
YYJA03656	7/25/77	2	6	4	2	2	2	2	3	2	1	.	.	.	28
YYJA03657	7/25/77	2	6	4	2	2	2	2	3	2	1	.	.	.	28
YYJA03658	7/25/77	2	6	4	2	2	2	2	3	2	1	.	.	.	28
YYJA03659	7/25/77	2	6	4	2	2	2	2	3	2	1	.	.	.	28
YYJA03756	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31
YYJA03757	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31
YYJA03758	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31
YYJA03759	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31
YYJA03856	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31
YYJA03857	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	31

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

SRL I.D.	SAMPDATE	VELOCITY	STRTWIDTH	STRTDEPTH	RELIEF	STMLEVEL	STRCOLOR	STRBED	VEGDENS	RELIEF	WEATHER	CONTAMN1	CONTAMN2	CONTAMN3	TEMP

YYJA03858	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA03859	7/25/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA03956	7/26/77	2	6	4	2	2	2	2	3	2	1	.	.	.	25
YYJA03957	7/26/77	2	6	4	2	2	2	2	3	2	1	.	.	.	25
YYJA03958	7/26/77	2	6	4	2	2	2	2	3	2	1	.	.	.	25
YYJA03959	7/26/77	2	6	4	2	2	2	2	3	2	1	.	.	.	25
YYJA04056	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA04057	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA04058	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA04059	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA04156	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04157	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04158	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04159	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04256	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04257	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04258	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04259	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04356	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04357	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04358	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04359	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04456	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04457	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04458	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04459	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA04556	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	27
YYJA04557	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	27
YYJA04558	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	27
YYJA04559	7/26/77	1	9	9	2	1	2	2	3	2	2	.	.	.	27
YYJA04656	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04657	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04658	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04659	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04756	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04757	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04758	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04759	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA04856	7/27/77	2	4	1	2	2	2	2	4	2	2	.	.	.	23
YYJA04857	7/27/77	2	4	1	2	2	2	2	4	2	2	.	.	.	23
YYJA04858	7/27/77	2	4	1	2	2	2	2	4	2	2	.	.	.	23
YYJA04859	7/27/77	2	4	1	2	2	2	2	4	2	2	.	.	.	23
YYJA04956	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04957	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04958	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA04959	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	24
YYJA05056	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA05057	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA05058	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26
YYJA05059	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	26

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS

***** ***** ***** SRL I.D. ***** ***** ***** *****	SAMPDATE	VELOCITY	STRWIDTH	STRDEPTH	RELIEF	STMLEVEL	STRCOLOR	STRBED	VEGDENS	RELIEF	WEATHER	CONTAMN1	CONTAMN2	CONTAMN3	TEMP
YYJA05156	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA05157	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA05158	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA05159	7/27/77	1	9	9	2	1	2	2	3	2	2	.	.	.	25
YYJA05256	7/28/77	6	9	9	2	1	2	2	4	2	2	.	.	.	25
YYJA05257	7/28/77	6	9	9	2	1	2	2	4	2	2	.	.	.	25
YYJA05258	7/28/77	6	9	9	2	1	2	2	4	2	2	.	.	.	25
YYJA05259	7/28/77	6	9	9	2	1	2	2	4	2	2	.	.	.	25
YYJA05356	7/28/77	2	3	1	2	2	2	2	3	2	2	.	.	.	23
YYJA05357	7/28/77	2	3	1	2	2	2	2	3	2	2	.	.	.	23
YYJA05358	7/28/77	2	3	1	2	2	2	2	3	2	2	.	.	.	23
YYJA05359	7/28/77	2	3	1	2	2	2	2	3	2	2	.	.	.	23
YYJA05456	7/28/77	2	4	2	2	3	2	2	3	2	2	.	.	.	25
YYJA05457	7/28/77	2	4	2	2	3	2	2	3	2	2	.	.	.	25
YYJA05458	7/28/77	2	4	2	2	3	2	2	3	2	2	.	.	.	25
YYJA05459	7/28/77	2	4	2	2	3	2	2	3	2	2	.	.	.	25
YYJA05556	8/1/77	3	7	5	2	3	1	2	4	2	2	.	.	.	24
YYJA05557	8/1/77	3	7	5	2	3	1	2	4	2	2	.	.	.	24
YYJA05558	8/1/77	3	7	5	2	3	1	2	4	2	2	.	.	.	24
YYJA05559	8/1/77	3	7	5	2	3	1	2	4	2	2	.	.	.	24
YYJA05656	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05657	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05658	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05659	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05756	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05757	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05758	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05759	8/1/77	2	6	4	2	3	2	2	4	2	1	.	.	.	25
YYJA05956	8/1/77	1	9	9	2	1	1	2	3	2	1	.	.	.	30
YYJA05957	8/1/77	1	9	9	2	1	1	2	3	2	1	.	.	.	30
YYJA05958	8/1/77	1	9	9	2	1	1	2	3	2	1	.	.	.	30
YYJA06056	8/1/77	2	4	2	2	2	2	2	3	2	3	.	.	.	26
YYJA06057	8/1/77	2	4	2	2	2	2	2	3	2	3	.	.	.	26
YYJA06058	8/1/77	2	4	2	2	2	2	2	3	2	3	.	.	.	26
YYJA06059	8/1/77	2	4	2	2	2	2	2	3	2	3	.	.	.	26
YYJA06156	8/1/77	1	9	9	2	1	2	2	4	2	2	.	.	.	26
YYJA06157	8/1/77	1	9	9	2	1	2	2	4	2	2	.	.	.	26
YYJA06158	8/1/77	1	9	9	2	1	2	2	4	2	2	.	.	.	26
YYJA06159	8/1/77	1	9	9	2	1	2	2	4	2	2	.	.	.	26
YYJA06236	8/1/77	2	6	4	2	3	1	2	3	2	2	.	.	.	27
YYJA06257	8/1/77	2	6	4	2	3	1	2	3	2	2	.	.	.	27
YYJA06258	8/1/77	2	6	4	2	3	1	2	3	2	2	.	.	.	27
YYJA06259	8/1/77	2	6	4	2	3	1	2	3	2	2	.	.	.	27
YYJA06356	8/2/77	3	7	4	2	3	1	2	3	2	3	.	.	.	24
YYJA06357	8/2/77	3	7	4	2	3	1	2	3	2	3	.	.	.	24
YYJA06358	8/2/77	3	7	4	2	3	1	2	3	2	3	.	.	.	24
YYJA06359	8/2/77	3	7	4	2	3	1	2	3	2	3	.	.	.	24
YYJA06456	8/2/77	1	9	9	2	1	2	2	3	2	3	.	.	.	24
YYJA06457	8/2/77	1	9	9	2	1	2	2	3	2	3	.	.	.	24

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

***** ***** ***** SRL I.D. ***** ***** ***** *****	SAMPDATE	V E L O C I T Y	S T R W I D T H	S T R D E P T H	R E L I E F	S T M L E V E L	S T R C O L O R	S T R B E D	V E G E D E N S	R E L I E F	W E A T H E R	C O N T A M N 1	C O N T A M N 2	C O N T A M N 3	T E M P
YYJA06458	8/ 2/77	1	9	9	2	2	1	2	3	2	3	.	.	.	24
YYJA06459	8/ 2/77	1	9	9	2	2	1	2	3	2	3	.	.	.	24
YYJA06556	8/ 2/77	3	4	2	2	3	2	2	3	2	3	.	.	.	24
YYJA06557	8/ 2/77	3	4	2	2	3	2	2	3	2	3	.	.	.	24
YYJA06558	8/ 2/77	3	4	2	2	3	2	2	3	2	3	.	.	.	24
YYJA06559	8/ 2/77	3	4	2	2	3	2	2	3	2	3	.	.	.	24
YYJA06656	8/ 2/77	6	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA06657	8/ 2/77	6	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA06658	8/ 2/77	6	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA06659	8/ 2/77	6	9	9	2	1	2	2	3	2	2	.	.	.	28
YYJA06756	8/ 2/77	6	9	9	2	1		3	3	2	3	.	.	.	M
YYJA06757	8/ 2/77	6	9	9	2	1		3	3	2	3	.	.	.	M
YYJA06758	8/ 2/77	6	9	9	2	1		3	3	2	3	.	.	.	M
YYJA06759	8/ 2/77	6	9	9	2	1		3	3	2	3	.	.	.	M
YYJA06856	8/ 2/77	2	4	2	2	2	2	2	3	2	3	.	.	.	28
YYJA06857	8/ 2/77	2	4	2	2	2	2	2	3	2	3	.	.	.	28
YYJA06858	8/ 2/77	2	4	2	2	2	2	2	3	2	3	.	.	.	28
YYJA06859	8/ 2/77	2	4	2	2	2	2	2	3	2	3	.	.	.	28
YYJA06956	8/ 2/77	6	9	9	2	1	6	2	3	2	2	.	.	.	M
YYJA06957	8/ 2/77	6	9	9	2	1	6	2	3	2	2	.	.	.	M
YYJA06958	8/ 2/77	6	9	9	2	1	6	2	3	2	2	.	.	.	M
YYJA06959	8/ 2/77	6	9	9	2	1	6	2	3	2	2	.	.	.	M
YYJA07056	8/ 2/77	1	9	9	2	1	2	2	3	2	2	.	.	.	30
YYJA07057	8/ 2/77	1	9	9	2	1	2	2	3	2	2	.	.	.	30
YYJA07058	8/ 2/77	1	9	9	2	1	2	2	3	2	2	.	.	.	30
YYJA07059	8/ 2/77	1	9	9	2	1	2	2	3	2	2	.	.	.	30
YYJA07156	8/ 3/77	6	9	9	2	1	6	2	5	2	1	.	.	.	M
YYJA07157	8/ 3/77	6	9	9	2	1	6	2	5	2	1	.	.	.	M
YYJA07158	8/ 3/77	6	9	9	2	1	6	2	5	2	1	.	.	.	M
YYJA07159	8/ 3/77	6	9	9	2	1	6	2	5	2	1	.	.	.	M
YYJA07256	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA07257	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA07258	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA07259	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	23
YYJA07356	8/ 3/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07357	8/ 3/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07358	8/ 3/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07359	8/ 3/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07456	8/ 2/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07457	8/ 2/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07458	8/ 2/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07459	8/ 2/77	6	9	9	2	1	6	2	3	2	1	.	.	.	M
YYJA07556	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	26
YYJA07557	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	26
YYJA07558	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	26
YYJA07559	8/ 3/77	1	9	9	2	1	2	2	3	2	1	.	.	.	26
YYJA07656	8/ 2/77	1	9	9	2	1	4	2	3	2	2	.	.	.	27
YYJA07657	8/ 2/77	1	9	9	2	1	4	2	3	2	2	.	.	.	27
YYJA07658	8/ 2/77	1	9	9	2	1	4	2	3	2	2	.	.	.	27
YYJA07659	8/ 2/77	1	9	9	2	1	4	2	3	2	2	.	.	.	27

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-----SEDIMENTS-----

SRL I.D.	SAMPDATE	VELOCITY	STRIKE	STRIKE	RELIEF	STRIKE	STRIKE	STRIKE	VELOCITY	RELIEF	WEATHER	CONTAMINANT 1	CONTAMINANT 2	CONTAMINANT 3	TEMP
YYJA07756	8/ 3/77	3	8	6	2	3	1	2	3	2	4	.	.	.	27
YYJA07757	8/ 3/77	3	8	6	2	3	1	2	3	2	4	.	.	.	27
YYJA07758	8/ 3/77	3	8	6	2	3	1	2	3	2	4	.	.	.	27
YYJA07759	8/ 3/77	3	8	6	2	3	1	2	3	2	4	.	.	.	27
YYJA07856	8/ 4/77	2	6	4	2	3	2	2	4	2	2	.	.	.	24
YYJA07857	8/ 4/77	2	6	4	2	3	2	2	4	2	2	.	.	.	24
YYJA07858	8/ 4/77	2	6	4	2	3	2	2	4	2	2	.	.	.	24
YYJA07859	8/ 4/77	2	6	4	2	3	2	2	4	2	2	.	.	.	24
YYJA07956	8/ 4/77	1	9	9	2	1	3	2	4	2	2	.	.	.	25
YYJA07957	8/ 4/77	1	9	9	2	1	3	2	4	2	2	.	.	.	25
YYJA07958	8/ 4/77	1	9	9	2	1	3	2	4	2	2	.	.	.	25
YYJA07959	8/ 4/77	1	9	9	2	1	3	2	4	2	2	.	.	.	25
YYJA08056	8/ 4/77	1	4	2	2	2	3	2	4	2	2	.	.	.	27
YYJA08057	8/ 4/77	1	4	2	2	2	3	2	4	2	2	.	.	.	27
YYJA08058	8/ 4/77	1	4	2	2	2	3	2	4	2	2	.	.	.	27
YYJA08059	8/ 4/77	1	4	2	2	2	3	2	4	2	2	.	.	.	27
YYJA08156	8/ 4/77	3	4	3	2	3	2	2	4	2	2	.	.	.	25
YYJA08157	8/ 4/77	3	4	3	2	3	2	2	4	2	2	.	.	.	25
YYJA08158	8/ 4/77	3	4	3	2	3	2	2	4	2	2	.	.	.	25
YYJA08159	8/ 4/77	3	4	3	2	3	2	2	4	2	2	.	.	.	25
YYJA08256	8/ 4/77	1	4	3	2	2	3	2	3	2	2	.	.	.	29
YYJA08257	8/ 4/77	1	4	3	2	2	3	2	3	2	2	.	.	.	29
YYJA08258	8/ 4/77	1	4	3	2	2	3	2	3	2	2	.	.	.	29
YYJA08259	8/ 4/77	1	4	3	2	2	3	2	3	2	2	.	.	.	29
YYJA08356	8/ 4/77	3	8	6	2	3	2	2	3	2	2	.	.	.	27
YYJA08357	8/ 4/77	3	8	6	2	3	2	2	3	2	2	.	.	.	27
YYJA08358	8/ 4/77	3	8	6	2	3	2	2	3	2	2	.	.	.	27
YYJA08359	8/ 4/77	3	8	6	2	3	2	2	3	2	2	.	.	.	27
YYJA08456	8/ 4/77	2	4	3	2	3	4	2	4	2	3	.	.	.	26
YYJA08457	8/ 4/77	2	4	3	2	3	4	2	4	2	3	.	.	.	26
YYJA08458	8/ 4/77	2	4	3	2	3	4	2	4	2	3	.	.	.	26
YYJA08459	8/ 4/77	2	4	3	2	3	4	2	4	2	3	.	.	.	26
YYJA08556	8/ 4/77	2	5	4	2	3	2	2	4	2	2	.	.	.	30
YYJA08557	8/ 4/77	2	5	4	2	3	2	2	4	2	2	.	.	.	30
YYJA08558	8/ 4/77	2	5	4	2	3	2	2	4	2	2	.	.	.	30
YYJA08559	8/ 4/77	2	5	4	2	3	2	2	4	2	2	.	.	.	30
YYJA08656	8/ 4/77	2	4	1	2	2	2	2	4	2	2	.	.	.	26
YYJA08657	8/ 4/77	2	4	1	2	2	2	2	4	2	2	.	.	.	26
YYJA08658	8/ 4/77	2	4	1	2	2	2	2	4	2	2	.	.	.	26
YYJA08659	8/ 4/77	2	4	1	2	2	2	2	4	2	2	.	.	.	26
YYJA08756	8/ 5/77	3	5	3	2	4	4	2	3	2	2	.	.	.	24
YYJA08757	8/ 5/77	3	5	3	2	4	4	2	3	2	2	.	.	.	24
YYJA08758	8/ 5/77	3	5	3	2	4	4	2	3	2	2	.	.	.	24
YYJA08759	8/ 5/77	3	5	3	2	4	4	2	3	2	2	.	.	.	24
YYJA08856	8/ 5/77	1	4	2	2	3	2	2	4	2	1	.	.	.	24
YYJA08857	8/ 5/77	1	4	2	2	3	2	2	4	2	1	.	.	.	24
YYJA08858	8/ 5/77	1	4	2	2	3	2	2	4	2	1	.	.	.	24
YYJA08859	8/ 5/77	1	4	2	2	3	2	2	4	2	1	.	.	.	24
YYJA08956	8/ 5/77	3	4	3	2	2	4	2	3	2	1	.	.	.	29
YYJA08957	8/ 5/77	3	4	3	2	2	4	2	3	2	1	.	.	.	29
YYJA08958	8/ 5/77	3	4	3	2	2	4	2	3	2	1	.	.	.	29
YYJA08959	8/ 5/77	3	4	3	2	2	4	2	3	2	1	.	.	.	29
YYJA09056	8/ 5/77	3	3	1	2	3	2	1	3	2	4	.	.	.	26
YYJA09057	8/ 5/77	3	3	1	2	3	2	1	3	2	4	.	.	.	26
YYJA09058	8/ 5/77	3	3	1	2	3	2	1	3	2	4	.	.	.	26
YYJA09059	8/ 5/77	3	3	1	2	3	2	1	3	2	4	.	.	.	26
YYJA09256	8/ 5/77	3	3	2	2	4	2	2	4	2	1	.	.	.	26
YYJA09257	8/ 5/77	3	3	2	2	4	2	2	4	2	1	.	.	.	26
YYJA09258	8/ 5/77	3	3	2	2	4	2	2	4	2	1	.	.	.	26
YYJA09259	8/ 5/77	3	3	2	2	4	2	2	4	2	1	.	.	.	26

TABLE C-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -SURFACE WATER

SRL I.D. *****	NO3 PPM	NH3 PPM	SD4 PPM	PO4 PPM	PH	COND. UM/CM	AKMXD MEQ/L	U PPB	AL PPB	BR PPB	CL PPB	DY PPB	F PPB	MG PPB	MN PPB	HA PPB	V PPB	U/COND X 1000
YYJA001R	0.0	1.6	0.0	0.1	6.4	110	14.25	0.075	118	22.4	6700	-0.100	.	.	447.6	1650	0.4	0.68
YYJA002R	0.3	1.7	0.0	0.3	6.2	120	1.50	0.066	65	25.8	M	-0.100	.	M	253.9	M	-0.1	0.55
YYJA003R	2.7	0.5	0.0	0.3	6.9	105	14.25	0.041	69	.	7000	-0.100	.	.	45.4	3320	0.5	0.39
YYJA004R	0.0	0.7	0.0	0.1	6.1	43	3.50	0.044	102	37.0	8900	-0.100	.	.	20.1	2310	0.5	1.02
YYJA005R	0.0	1.7	0.0	0.1	3.9	60	0.50	0.053	290	32.5	6600	0.100	.	.	20.2	1880	0.6	0.88
YYJA006R	0.0	1.0	1.0	0.1	6.1	80	10.50	0.068	69	.	6300	-0.100	.	.	44.1	2620	0.1	0.85
YYJA007R	0.5	1.0	0.0	0.2	5.9	48	6.50	0.024	110	32.4	7400	-0.100	.	.	15.8	2440	0.4	0.50
YYJA008R	0.0	2.6	0.0	0.3	4.4	60	1.50	0.057	194	38.7	8700	-0.100	.	.	21.8	3110	0.3	0.95
YYJA009R	0.8	2.0	0.0	0.4	5.8	70	6.50	0.029	77	17.8	7600	-0.100	.	.	18.8	3710	-0.1	0.41
YYJA010R	0.8	0.7	0.0	0.1	6.3	60	9.50	0.059	129	26.8	6600	-0.100	.	.	12.2	3420	0.8	0.98
YYJA011R	2.8	0.2	0.0	0.2	6.0	75	5.50	0.020	98	24.1	9200	-0.100	.	.	30.8	2660	-0.1	0.27
YYJA012R	0.0	1.2	0.0	0.5	5.5	55	5.50	0.039	200	.	8200	-0.100	.	.	22.6	2980	1.1	0.71
YYJA013R	0.0	0.5	0.0	0.2	5.8	75	5.50	0.062	179	48.3	10700	-0.100	.	.	177.6	4230	0.5	0.83
YYJA014R	0.7	0.2	0.0	0.1	6.5	62	5.50	0.061	214	.	14800	-0.100	.	.	30.6	3030	0.7	0.98
YYJA015R	0.0	0.1	0.0	0.2	5.9	35	4.50	0.081	139	13.4	7200	0.100	.	.	12.0	2610	0.7	2.31
YYJA016R	0.0	1.2	0.0	0.2	7.3	250	17.10	0.069	48	.	7900	-0.100	157	.	19.2	16680	0.3	0.28
YYJA017R	0.0	0.5	0.0	0.1	4.5	50	1.50	0.075	369	.	7700	-0.100	66	.	27.6	3250	0.4	1.50
YYJA018R	0.0	0.5	0.0	0.1	4.7	55	2.50	0.096	329	69.2	8800	0.100	47	.	23.5	3530	0.6	1.75
YYJA019R	0.0	0.4	0.0	0.1	5.2	55	3.50	0.069	338	30.2	9800	-0.100	.	.	16.5	3610	0.8	1.25
YYJA023R	0.1	0.8	2.6	0.1	5.6	65	4.50	0.016	28	.	7600	-0.100	.	.	.	5000	-0.1	0.25
YYJA024R	0.0	0.7	0.0	0.0	4.4	50	1.50	0.029	160	33.3	13500	0.100	.	.	7.6	6600	-0.1	0.58
YYJA025R	0.0	1.0	0.0	0.0	8.2	120	11.25	0.030	53	65.6	12500	-0.100	.	.	430.0	7410	-0.1	0.25
YYJA026R	0.1	0.9	0.0	0.1	4.6	40	3.50	0.030	168	.	7100	-0.100	.	.	21.7	3280	-0.1	0.75
YYJA027R	2.3	0.4	0.5	0.0	5.5	70	5.50	0.036	74	.	6800	-0.100	.	.	16.6	2870	0.4	0.51
YYJA028R	0.0	2.9	2.0	0.2	6.0	75	6.50	0.027	113	45.7	9200	-0.100	.	.	10.9	3460	0.3	0.36
YYJA029R	0.0	0.9	1.3	0.3	6.0	80	7.50	0.037	51	56.8	11200	-0.100	.	.	31.0	4020	-0.1	0.46
YYJA030R	0.0	2.0	0.0	0.2	4.4	60	2.50	0.022	428	48.1	7200	-0.100	.	.	15.1	2450	0.4	0.37
YYJA031R	0.0	1.1	0.0	0.1	4.7	45	3.50	0.057	167	38.8	7400	-0.100	.	.	16.8	2100	0.2	1.27
YYJA032R	0.0	1.4	0.0	0.1	5.7	70	6.50	0.073	138	.	8700	-0.100	.	.	25.5	2820	0.4	1.04
YYJA034R	0.0	0.4	23.7	0.0	6.5	130	17.50	0.035	53	26.0	7100	-0.100	.	.	59.9	3380	0.8	0.27
YYJA036R	0.1	0.3	10.9	0.1	6.7	120	20.50	0.042	53	9.8	7200	-0.100	.	.	93.2	3440	0.4	0.35
YYJA039R	0.1	0.3	0.0	0.1	7.6	215	20.10	0.077	66	.	4400	-0.100	46	.	14.3	4130	-0.1	0.36
YYJA048R	0.2	1.6	0.0	0.1	6.9	100	13.25	0.053	41	.	7500	-0.100	.	.	207.7	2930	0.3	0.53
YYJA053R	0.0	0.7	0.0	0.1	5.4	30	4.50	0.057	129	20.4	5700	-0.100	40	.	8.0	2090	0.3	1.90
YYJA054R	0.0	0.9	0.0	0.0	6.9	60	9.50	0.042	100	.	5800	-0.100	.	.	15.1	2580	-0.1	0.70
YYJA055R	0.2	0.2	0.0	0.1	6.6	90	20.50	0.044	79	23.9	5900	-0.100	.	.	14.5	3960	0.2	0.49
YYJA056R	2.4	0.3	0.0	0.3	7.3	120	13.25	0.038	75	.	6800	-0.100	.	.	40.8	3240	0.6	0.32
YYJA057R	1.7	0.2	0.0	0.2	7.2	120	15.25	0.036	73	.	6500	0.100	56	.	55.7	3210	0.3	0.30
YYJA058R	0.1	0.3	0.0	0.1	7.2	90	12.25	0.026	85	15.1	6200	-0.100	.	.	26.7	4390	0.5	0.29
YYJA059R	0.0	0.2	0.0	0.2	7.7	245	1.25	0.113	31	6.3	3200	-0.100	.	.	17.9	760	-0.1	0.46
YYJA060R	0.0	0.7	0.0	0.0	6.7	40	6.50	0.041	63	.	4600	-0.100	.	.	12.4	2020	0.1	1.03
YYJA061R	0.0	1.6	0.0	0.1	6.8	160	0.65	0.096	176	37.7	5900	-0.100	92	.	14.6	12160	0.8	0.60
YYJA062R	0.1	0.5	0.0	0.2	7.4	140	14.10	0.031	63	10.8	6500	-0.100	38	.	65.0	3980	0.6	0.22
YYJA063R	0.1	0.3	15.1	0.1	7.0	120	9.10	0.036	55	17.7	5700	-0.100	.	.	67.1	2840	0.4	0.30
YYJA064R	0.0	3.3	0.0	0.1	6.7	80	15.50	0.032	62	.	5900	-0.100	50	.	34.0	3060	0.2	0.40
YYJA065R	0.0	1.3	17.9	0.1	4.1	95	0.50	0.048	236	9.9	5400	-0.100	.	.	29.0	2340	0.6	0.51
YYJA066R	0.2	0.9	0.0	0.0	5.9	170	7.50	0.042	72	.	7100	-0.100	.	.	35.2	4090	-0.1	0.25
YYJA068R	0.0	1.6	1.5	0.0	4.2	70	0.50	0.034	228	28.9	5900	-0.100	29	.	17.6	1780	0.3	0.49
YYJA070R	0.0	0.5	0.0	0.0	6.7	80	9.50	0.036	88	27.4	8800	-0.100	.	.	8.4	M	-0.1	0.45
YYJA072R	0.0	0.5	16.0	0.0	4.9	70	3.50	0.032	132	6.5	4200	-0.100	.	.	44.3	1500	-0.1	0.46
YYJA075R	0.1	0.7	0.5	0.1	5.9	30	6.50	0.070	160	15.3	2900	-0.100	31	.	14.1	160	0.6	2.33
YYJA076R	0.1	1.2	0.5	0.0	5.9	40	6.50	0.059	823	9.4	4300	-0.100	.	.	.	840	0.6	1.48
YYJA077R	0.0	1.6	.	0.0	6.9	38000	1.05	0.387	M	.	M	-0.100	.	M	.	M	-0.1	0.01
YYJA078R	0.1	0.5	13.3	0.3	6.3	265	15.50	0.039	21	.	6300	-0.100	.	.	.	3820	-0.1	0.15
YYJA079R	0.2	0.6	0.0	0.1	6.4	60	11.50	0.083	70	.	14500	-0.100	.	.	24.7	7450	0.5	1.38

TABLE C-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -SURFACE WATER

SRL I.D. *****	NO3 PPM	NH3 PPM	SO4 PPM	PO4 PPM	PH	COND. UM/CM	AKMXD MEQ/L	U PPB	AL PPB	BR PPB	CL PPB	DY PPB	F PPB	MG PPB	MN PPB	NA PPB	V PPB	U/COND X 1000
YYJA080R	0.0	1.0	0.0	0.0	6.1	69	9.50	0.077	357		4700	-0.100	.	.	15.2	1700	0.2	1.28
YYJA081R	0.1	1.0	0.4	0.0	4.3	79	0.50	0.059	281	37.7	8200	-0.100	.	.	28.7	4080	0.5	0.84
YYJA082R	0.0	0.7	0.0	0.0	5.0	43	3.50	0.083	180	59.8	4800	-0.100	64	.	8.6	1850	0.4	2.08
YYJA083R	0.0	0.7	17.9	0.0	6.3	113	11.50	0.038	55	5.0	5100	-0.100	.	.	33.4	2860	0.3	0.35
YYJA084R	0.1	1.0	8.7	0.1	6.0	85	7.50	0.097	132	21.2	4700	-0.100	14	.	16.8	2720	0.5	1.14
YYJA085R	0.1	0.6	10.2	0.2	6.7	1009	17.50	0.043	M	.	M	-0.100	.	M	1.2	M	-0.1	0.01
YYJA086R	0.3	0.7	20.1	0.1	4.6	103	3.50	0.048	209	.	11700	-0.100	.	.	36.7	6790	0.4	0.48
YYJA087R	0.1	0.6	0.5	0.0	5.7	53	4.50	0.057	226	11.9	7100	-0.100	49	.	20.2	3160	0.3	1.14
YYJA088R	0.0	0.7	0.7	0.0	4.9	43	3.50	0.028	M	.	M	-0.900	.	M	.	M	-0.1	0.70
YYJA089R	0.2	2.2	0.7	0.0	3.9	93	0.50	0.028	M	.	M	-0.100	.	M	.	M	-0.1	0.31
YYJA090R	0.0	1.7	0.0	0.2	4.3	65	1.50	0.069	M	.	M	-0.100	.	.	.	140	-0.1	1.06
YYJA091R	0.0	1.2	19.0	0.0	5.8	119	6.50	0.001	396	17.2	15100	-0.100	52	.	120.5	7110	1.7	0.01
YYJA092R	0.0	1.7	27.9	0.0	5.1	93	3.50	-0.002	934	.	21600	-0.100	69	.	34.4	6560	1.7	-0.01