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ORIENTATION STUDY OF THE CHATTANOOGA SHALE AREA, SODDY-DAISY, TENNESSEE

**NATIONAL URANIUM RESOURCE
EVALUATION PROGRAM**

**HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE**

KENNETH A. SARGENT

MASTER

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Aiken, SC 29808**

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Approved by

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Analytical Development Division**

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ABSTRACT

An orientation study was conducted in the Soddy-Daisy area, Tennessee, in preparation for a hydrogeochemical and stream sediment reconnaissance in the Cumberland Plateau and the Valley and Ridge Provinces. The area was chosen because of the excellent exposure of the Chattanooga Shale. The study was carried out by the Savannah River Laboratory as part of the National Uranium Resource Evaluation (NURE).

A total of 40 ground water, 36 surface water, and 88 sediment samples were obtained. The concentrations of uranium and other elements were determined by neutron activation analysis.

This 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 NURE program.

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ORIENTATION STUDY OF THE CHATTANOOGA SHALE AREA, SODDY-DAISY, TENNESSEE

INTRODUCTION

This report presents the data from an orientation study in the Soddy-Daisy area, Tennessee. The study area is in south-central Tennessee, in the Chattanooga 1° x 2° quadrangle of the National Topographic Map Series. The area was chosen because of local outcrops of the Chattanooga Shale, an organic-rich shale in which uranium is known to have been concentrated. A total of 40 ground water, 36 stream water, and 88 sediment samples were obtained. The sample site locations are shown in Figures 1 through 4.

Conductivity, pH, and alkalinity in ground water samples were measured at the sampling site. Dissolved ions were collected on ion-exchange resin and returned to SRL for neutron activation analysis for uranium, bromine, chlorine, fluorine, manganese, sodium, and vanadium. Measurements of the nitrate, ammonia, sulfate, and phosphate were made by colorimetry in the field.

Conductivity, pH, and alkalinity were measured in stream water samples at the sampling site. Measurements of nitrate, ammonia, sulfate, and phosphate were made by colorimetry in the field.

Stream sediments were sieved to <40 mesh in the field and returned to SRL for further preparation and analysis. These samples were then separated into four size fractions that were analyzed by neutron activation analysis for uranium and 16 other elements.

ANALYTICAL DATA

Water Analyses

Tables A-1, A-2, and C-1 give the water analyses for ground water and stream water samples. The elements U, Br, Cl, F, Mn, Na, and V were determined by neutron activation. The elemental concentrations are given in parts per billion (ppb); "M" denotes missing values. For uranium, the analytical background is about 0.020 ppb.

pH

Normally, pH will be in the range 4.0 to 9.5. Values outside this range may suggest pollution or instrument malfunction.

AKMXD

Alkalinity as milliequivalents of sulfuric acid required per liter of sample to titrate to a pH of about 4.5.

COND

Conductivity, measured in micromhos per centimeter.

NH₃

Ammonia in parts per million (ppm) by colorimetry.

PO₄

Orthophosphate (ppm) by colorimetry.

NO₃

Nitrate plus nitrite (ppm) by colorimetry.

SO₄

Sulfate (ppm) by barium sulfate turbidimetry.

Sediment Analyses

Tables B-1, B-2, and B-3 present the analytical data for stream sediment samples. Each sediment sample collected was sieved to pass a 40 mesh (420 μ m) screen in the field. The sample was later separated into four size fractions for analysis: S6, -40 mesh to +100 mesh (420 to 150 μ m); S7, -100 mesh (<150 μ m); S8, -100 to +200 mesh (150 to 75 μ m); and S9, -200 mesh (<75 μ m). The sediment samples were analyzed for the following elements by neutron activation: U, Th, Al, Ce, Dy, Eu, Fe, Hf, La, Lu, Mn, Na, Sc, Sm, Ti, V, and Yb. The elemental concentrations are reported in ppm; "M" denotes a missing value.

Uranium

The user of these data is cautioned that the concentration of uranium in stream sediment samples varies with the abundance of such minerals as zircon and monazite. High concentrations of uranium may not be related to the economic potential of the sampled area.

Thorium

The geochemical association between thorium and uranium in high-temperature environments is well known. Extensive solid solution occurs between compounds of these elements.

Aluminum

High values of aluminum in sediment samples are probably related to the clay and feldspar in the samples.

Cerium and Lanthanum

The concentrations of cerium and lanthanum are probably related to the presence of monazite $[\text{CeLaTh}(\text{PO}_4)]$.

Dysprosium

Dysprosium is found as a minor constituent of the resistate mineral xenotime, which is reported to contain as much as 3.5% U. Dysprosium analyses may therefore be useful in estimating contributions to total uranium by xenotime.

Iron and Manganese

The areal distribution of iron and manganese reflects the relative abundance of iron- and manganese-bearing detrital minerals (which may be a complex function of original source-rock type or metamorphic conditions), weathering, and transport conditions.

Hafnium

Hafnium is an accessory constituent in the resistate mineral zircon and is useful for inferring the zircon content of the sample.

Scandium

Scandium is significant because its geochemical behavior is similar to that of the lanthanides under some conditions. Scandium can substitute for trivalent iron, aluminum, vanadium, and rare earths.

Titanium and Vanadium

High concentrations of vanadium and iron suggest the presence of ilmenite. The presence of rutile might be inferred from a high Ti/Fe ratio.

Field Measurements

AGE

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

WATERTEM

The water temperature at the time of sampling is recorded in this column. The temperature is recorded in degrees Celsius to the nearest whole degree.

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

WELPOINT

The positions at which samples are taken are listed in this column.
The positions listed 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 wells.

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 (<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 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 (<3 families)
2. Semiprivate (used by 3 to 10 families)
3. Public (used by >10 families)
4. Industrial
5. Commercial (motel, etc)
6. Recreational
7. Agricultural
8. Unknown
9. Other

WELDEPTH

The depths of sampled wells are recorded to the nearest whole foot. Flowing springs are shown as having depths of zero. A "U" indicates that the well depth is unknown.

SAMPDATE

The date of sampling, month/day/year. For example, 7/17/77 is July 15, 1977.

VELOCITY

The velocity of stream flow.

1. Stagnant
2. Slow
3. Moderate
4. Fast
5. Torrent
6. Dry

STMWIDTH AND STMDEPTH

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

An estimate of the average width and depth of the stream over the 100-200 ft of stream length where the sample was taken.

STMLEVEL

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

STMCOLOR

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

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

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 location will usually not exceed a few hundred yards in mountainous terrain, but may exceed one-half mile in relatively flat areas.

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.

STRBED

1. Depositing
2. Eroding
3. Unknown

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 the areas of calm water). The chosen descriptor applies to the general nature of the stream.

VEGDENS

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

The amount of plant growth in the immediate area of the sample site. The density is a subjective observation made in relation to visibility, ease of access, and other considerations.

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 below. 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	

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FIGURE 1. Ground Water Site Locations in the Soddy 7.5'' Quadrangle, TN

FIGURE 2. Ground Water Site Locations in the Fairmount and Daisy 7.5'' Quadrangles, TN

FIGURE 3. Stream Site Locations in the Soddy 7.5^m Quadrangle, TN

FIGURE 4. Stream Site Locations in the Fairmount and Daisy 7.5'' Quadrangles, TN

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.

1

SRL I.D. *****	LATITUDE	LONGITUDE	PH	COND. UM/CM	AKMXD MEQ/L	U	BR	CL	F	HE	MN	NA	V	U/COND X 1000
YYDS520R	.	.	6.3	83	26.50	M	M	M	M	M	M	M	M	M
YYDS521R	.	.	7.5	152	25.20	M	M	M	M	M	M	M	M	M
YYDS522R	.	.	7.5	225	84.50	M	M	M	M	M	M	M	M	M
YYDS523R	.	.	7.7	455	45.10	M	M	M	M	M	M	M	M	M
YYDS524R	.	.	8.0	177	24.15	M	M	M	M	M	M	M	M	M
YYDS525R	.	.	7.6	176	27.15	M	M	M	M	M	M	M	M	M
YYDS526R	.	.	7.9	230	39.20	M	M	M	M	M	M	M	M	M
YYDS527R	.	.	7.7	198	35.20	M	M	M	M	M	M	M	M	M
YYDS528R	.	.	7.8	80	5.30	M	M	M	M	M	M	M	M	M
YYDS529R	.	.	6.7	92	11.20	M	M	M	M	M	M	M	M	M
YYDS530R	.	.	6.6	94	24.30	M	M	M	M	M	M	M	M	M
YYDS531R	.	.	6.4	56	9.30	M	M	M	M	M	M	M	M	M
YYDS532R	.	.	6.4	75	11.30	M	M	M	M	M	M	M	M	M
YYDS533R	.	.	5.8	22	4.50	M	M	M	M	M	M	M	M	M
YYDS534R	.	.	7.3	92	17.40	M	M	M	M	M	M	M	M	M
YYDS535R	.	.	6.3	52	4.25	M	M	M	M	M	M	M	M	M
YYDS536R	.	.	6.4	38	10.50	M	M	M	M	M	M	M	M	M
YYDS537R	.	.	6.0	20	4.50	M	M	M	M	M	M	M	M	M
YYDS538R	.	.	5.3	48	1.99	M	M	M	M	M	M	M	M	M
YYDS539R	.	.	6.0	40	3.50	M	M	M	M	M	M	M	M	M
YYDS540R	.	.	7.1	131	13.25	M	M	M	M	M	M	M	M	M
YYDS541R	.	.	6.2	85	6.50	M	M	M	M	M	M	M	M	M
YYDS542R	.	.	6.9	210	36.30	0.076	.	M	.	M	.	M	-0.1	0.36
YYDS543R	.	.	5.9	15	3.99	0.019	.	M	.	M	.	210	-0.1	1.28
YYDS544R	.	.	6.1	79	14.50	-0.002	.	M	.	M	.	260	-0.1	M
YYDS545R	.	.	6.5	98	35.50	-0.002	51.6	9300	103	M	516.4	1260	-0.1	M
YYDS546R	.	.	6.9	129	48.50	-0.002	.	M	.	M	.	M	-0.1	M
YYDS547R	.	.	5.9	34	7.50	-0.002	51.6	12200	52	M	413.1	2190	-0.1	M
YYDS548R	.	.	6.8	136	43.50	-0.002	.	M	.	M	.	140	-0.1	M
YYDS549R	.	.	6.2	42	1.50	-0.002	51.6	11600	.	M	34.4	1270	-0.1	M
YYDS550R	.	.	8.0	216	32.20	0.234	.	M	.	M	.	M	-0.1	1.08
YYDS551R	.	.	8.3	206	35.20	0.197	51.6	10300	120	M	.	1810	-0.1	0.96
YYDS552R	.	.	7.3	122	18.25	0.028	.	M	.	M	.	M	-0.1	0.23
YYDS553R	.	.	6.0	52	2.50	-0.002	51.6	10400	69	M	309.9	620	-0.1	M
YYDS554R	.	.	7.0	68	11.30	0.005	.	M	.	M	.	150	-0.1	0.07
YYDS555R	.	.	7.1	81	15.30	-0.002	86.1	10200	34	M	516.4	1530	-0.1	M
YYDS556R	.	.	6.7	96	38.50	-0.002	.	M	.	M	.	150	-0.1	M
YYDS557R	.	.	7.3	49	7.25	-0.002	.	9900	86	M	499.2	2120	-0.1	M
YYDS558R	.	.	7.6	209	38.25	-0.002	.	M	.	M	.	170	-0.1	M
YYDS559R	.	.	6.4	71	23.50	0.018	51.6	10800	103	M	499.2	2190	-0.1	0.25

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

***** ***** ***** SERL I.O. ***** ***** ***** *****	AL PPB	DY PPB	SAMPDATE	NO3 PPM	NH3 PPM	SD4 PPM	PO4 PPM	A G E	W A T E R T E M P E R T Y P E	W E L L P O U N D E R T Y P E	W E L L P O U N D E R T Y P E	W E L L P O U N D E R T Y P E	W E L L P O U N D E R T Y P E	P I P E C O M P O S I T I O N	W E L L C L A S S I F I C A T I O N	W E L L D E P T H	
YYDS520R	M	M	7/26/77	0.1	0.0	1.0	0.1		21	4	4	1	1	1	4	3	U
YYDS521R	M	M	7/26/77	0.7	0.0	2.0	0.0		20	4	4	4	6	1	7	1	U
YYDS522R	M	M	7/27/77	2.2	0.0	2.6	0.1		20	4	1	1	1	1	1	1	U
YYDS523R	M	M	7/27/77	0.1	0.3	18.5	0.0	025	22	3	1	1	1	1	1	1	0060
YYDS524R	M	M	7/27/77	1.5	0.0	0.7	0.1	003	23	3	1	1	1	1	1	1	0072
YYDS525R	M	M	7/27/77	2.2	0.0	2.8	0.0		24	4	4	1	1	1	7	1	U
YYDS526R	M	M	7/27/77	0.2	0.0	2.0	0.1	027	22	1	3	3	1	1	1	1	0077
YYDS527R	M	M	7/27/77	0.3	0.0	0.7	0.1		19	4	4	2	1	1	7	1	U
YYDS528R	M	M	7/27/77	4.1	0.0	2.3	0.1	044	19	1	4	4	6	1	4	1	0102
YYDS529R	M	M	7/27/77	3.4	0.0	4.0	0.1		27	2	4	4	6	1	7	1	0010
YYDS530R	M	M	7/28/77	0.1	0.5	1.3	0.1		17	4	4	4	2	1	7	6	U
YYDS531R	M	M	7/28/77	2.0	0.0	1.3	0.0	010	18	3	3	1	1	1	1	1	0077
YYDS532R	M	M	7/28/77	0.6	0.0	7.4	0.0	045	19	1	1	1	1	1	1	1	0080
YYDS533R	M	M	7/28/77	0.4	0.4	1.5	0.2	017	18	1	4	1	5	2	4	1	0050
YYDS534R	M	M	7/28/77	0.4	0.0	3.7	0.1	025	17	2	3	3	1	1	1	1	0035
YYDS535R	M	M	8/ 1/77	0.9	0.0	3.7	0.0	035	25	1	1	1	1	1	3	1	0072
YYDS536R	M	M	8/ 1/77	0.2	0.4	0.5	0.0	024	23	1	3	3	2	1	3	1	U
YYDS537R	M	M	8/ 1/77	0.3	0.0	1.8	0.1	032	24	1	3	3	2	1	4	1	0035
YYDS538R	M	M	8/ 1/77	0.4	0.0	4.0	0.1	020	24	1	1	1	1	1	3	2	0098
YYDS539R	M	M	8/ 1/77	1.1	0.0	0.0	0.0	070	25	2	4	1	1	1	7	1	0060
YYDS540R	M	M	8/ 1/77	2.8	0.0	13.3	0.1	050	23	2	4	4	6	1	7	8	0045
YYDS541R	M	M	8/ 1/77	4.1	0.3	12.5	0.0		25	1	3	3	2	1	6	1	U
YYDS542R	M	0.900	8/ 1/77	2.2	0.0	31.1	0.0		24	4	4	2	1	1	7	3	U
YYDS543R	M	0.700	8/ 1/77	2.1	0.0	0.0	0.0		21	4	4	4	1	2	4	3	U
YYDS544R	M	0.900	8/ 2/77	0.0	0.0	8.7	0.0		23	1	3	1	1	1	1	1	0052
YYDS545R	17	-0.100	8/ 2/77	0.0	0.6	0.0	0.7	004	22	1	3	1	1	1	4	1	U
YYDS546R	M	1.000	8/ 2/77	3.1	0.0	0.0	0.1	012	24	1	1	1	1	1	6	1	0110
YYDS547R	34	-0.100	8/ 2/77	1.1	0.0	0.2	0.0	001	25	1	3	4	6	1	3	9	0972
YYDS548R	M	1.000	8/ 2/77	1.0	0.2	0.0	0.1	010	24	1	3	1	1	1	3	1	0072
YYDS549R	52	-0.100	8/ 3/77	0.9	0.0	7.4	0.1	035	25	2	4	4	6	1	7	1	0045
YYDS550R	M	1.000	8/ 4/77	0.3	0.0	10.9	0.1		20	4	4	1	1	1	4	1	U
YYDS551R	34	-0.100	8/ 5/77	0.1	0.0	2.0	0.1		20	4	4	1	1	1	6	3	U
YYDS552R	M	-0.100	8/ 5/77	5.4	0.0	1.5	0.0	016	21	1	2	1	1	1	1	1	0045
YYDS553R	120	-0.100	8/ 5/77	0.3	0.0	12.5	0.0	075	26	2	1	1	1	1	3	1	0065
YYDS554R	M	0.900	8/ 5/77	1.1	0.0	1.3	0.1		21	1	4	4	6	1	6	1	0100
YYDS555R	17	-0.100	8/ 5/77	0.1	0.0	0.2	0.0	023	28	1	3	4	6	1	3	1	0092
YYDS556R	M	-0.100	8/ 5/77	0.0	0.0	1.0	0.0	002	20	1	3	1	1	1	3	1	0090
YYDS557R	17	-0.100	8/ 5/77	0.1	0.0	1.3	0.0		23	4	6	4	6	1	6	8	U
YYDS558R	M	1.000	8/ 5/77	0.1	0.0	0.0	0.1	005	22	1	1	1	1	1	3	1	0106
YYDS559R	34	-0.100	8/ 5/77	0.3	0.0	1.5	0.0	001	21	1	2	1	1	1	3	1	0125

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	* *
YYDS02056	.	.	7.6	170	29.20	16.1	M	6	M	10700	M	M	1.7	2900	M	
YYDS02058	.	.	7.6	170	29.20	79.9	5	52	49	11700	120	300	4.8	1600	40	
YYDS02059	.	.	7.6	170	29.20	212.9	11	41	56	21800	250	1000	7.1	M	40	
YYDS02057	.	.	7.6	170	29.20	133.8	12	49	17	19500	180	600	6.0	5200	40	
YYDS02156	.	.	7.5	170	30.20	9.1	M	3	M	11000	M	M	1.3	M	M	
YYDS02158	.	.	7.5	170	30.20	31.6	4	31	13	7100	160	300	4.4	2500	M	
YYDS02159	.	.	7.5	170	30.20	4.7	5	52	M	25600	480	1400	4.6	5800	60	
YYDS02157	.	.	7.5	170	30.20	40.0	4	23	15	8100	130	400	2.7	1500	M	
YYDS02256	.	.	6.0	170	37.30	7.9	M	4	M	M	M	M	1.1	2300	M	
YYDS02258	.	.	6.0	170	37.30	25.0	4	40	M	M	M	M	2.0	2900	20	
YYDS02259	.	.	6.0	170	37.30	97.0	14	76	54	10700	120	600	5.0	5500	30	
YYDS02257	.	.	6.0	170	37.30	29.1	4	35	29	6500	M	M	2.3	M	20	
YYDS02356	.	.	.	.	.	18.5	3	5	23	11300	180	M	3.4	M	M	
YYDS02358	.	.	.	.	.	135.3	5	33	29	19300	340	400	4.2	5200	20	
YYDS02359	.	.	.	.	.	3.8	6	29	M	49800	700	1000	7.0	6100	70	
YYDS02357	.	.	.	.	.	155.5	5	33	54	25100	410	600	5.6	22000	30	
YYDS02456	.	.	6.1	167	26.20	5.9	M	3	16	4900	M	M	0.8	M	M	
YYDS02458	.	.	6.1	167	26.20	22.7	M	21	M	M	110	M	3.0	3700	M	
YYDS02459	.	.	6.1	167	26.20	4.8	11	57	73	17800	310	900	5.2	6000	40	
YYDS02457	.	.	6.1	167	26.20	30.7	4	27	22	11700	110	300	4.1	M	M	
YYDS02556	.	.	.	.	.	131.3	5	4	50	15600	460	300	6.2	M	20	
YYDS02558	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02559	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02557	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02656	.	.	5.7	132	28.25	12.2	M	3	25	10400	140	M	2.3	2500	M	
YYDS02658	.	.	5.7	132	28.25	57.7	M	26	M	12900	240	300	3.7	M	30	
YYDS02659	.	.	5.7	132	28.25	244.2	5	25	36	17900	320	800	8.6	5100	30	
YYDS02657	.	.	5.7	132	28.25	86.9	6	20	27	13100	280	400	4.5	4900	30	
YYDS02756	.	.	.	.	.	68.1	3	3	16	19500	M	M	4.8	5900	40	
YYDS02758	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02759	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02757	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS02856	.	.	.	.	.	12.3	4	M	M	9900	150	M	1.0	M	M	
YYDS02858	.	.	.	.	.	93.5	6	9	36	13400	290	300	4.6	M	50	
YYDS02859	.	.	.	.	.	3.9	M	9	M	20500	420	600	10.7	4100	50	
YYDS02857	.	.	.	.	.	107.1	4	11	38	9300	310	300	3.7	M	40	
YYDS02956	.	.	6.6	31	3.20	12.5	2	12	12	2500	M	M	1.3	M	M	
YYDS02958	.	.	6.6	31	3.20	25.6	4	20	M	8800	M	M	2.7	M	M	
YYDS02959	.	.	6.6	31	3.20	149.1	10	42	62	12700	120	600	6.1	M	30	
YYDS02957	.	.	6.6	31	3.20	55.7	4	32	20	10500	M	300	4.5	M	20	
YYDS03056	.	.	.	.	.	116.4	5	4	22	12200	350	400	5.6	3100	30	
YYDS03058	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS03059	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS03057	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS03156	.	.	.	.	.	90.7	3	2	31	15800	610	400	3.2	M	50	
YYDS03158	.	.	.	.	.	146.3	5	11	41	13500	790	500	6.2	4300	30	
YYDS03159	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M	
YYDS03157	.	.	.	.	.	206.5	7	15	M	21700	950	800	10.1	2000	30	
YYDS03256	.	.	.	.	.	18.6	M	4	M	6100	420	M	2.0	1700	M	
YYDS03258	.	.	.	.	.	94.2	7	22	53	9000	990	300	4.4	3900	20	
YYDS03259	.	.	.	.	.	263.0	12	23	77	22700	1300	600	9.7	1700	20	
YYDS03257	.	.	.	.	.	135.0	11	18	46	16200	1000	300	5.2	3300	30	
YYDS03356	.	.	.	.	.	111.1	9	6	49	15400	910	300	6.8	6500	50	
YYDS03358	.	.	.	.	.	89.4	4	11	37	10600	670	M	4.9	M	40	
YYDS03359	.	.	.	.	.	159.7	5	14	52	19200	880	400	6.5	5100	40	

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
YYDS03357	.	.	.	.	.	126.7	5	11	47	16400	830	400	5.8	4200	40
YYDS03456	.	.	.	.	.	15.2	3	3	M	8100	230	M	0.9	M	M
YYDS03458	.	.	.	.	.	66.2	M	13	M	M	240	M	4.1	3000	M
YYDS03459	.	.	.	.	.	251.3	12	22	53	24300	450	400	8.2	6600	50
YYDS03457	.	.	.	.	.	149.9	7	16	36	19300	420	300	5.5	M	50
YYDS03556	.	.	.	.	.	256.1	5	8	30	19100	530	300	7.9	M	30
YYDS03558	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS03559	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS03557	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS03656	7.5	.	.	320	44.20	43.4	2	2	22	18200	410	M	3.0	2900	20
YYDS03658	7.5	.	.	320	44.20	58.1	5	9	20	12500	580	300	3.0	M	20
YYDS03659	7.5	.	.	320	44.20	129.0	11	20	47	15400	920	600	5.1	3500	50
YYDS03657	7.5	.	.	320	44.20	85.5	7	14	16	15100	710	400	6.6	2500	40
YYDS03756	8.1	.	.	236	32.20	10.4	4	2	28	8800	540	M	1.6	M	M
YYDS03758	8.1	.	.	236	32.20	26.1	6	20	29	13700	800	300	2.4	M	20
YYDS03759	8.1	.	.	236	32.20	3.7	13	31	48	14000	2240	1600	3.2	M	50
YYDS03757	8.1	.	.	236	32.20	32.6	M	16	22	7600	870	300	3.1	2900	M
YYDS03856	7.7	.	.	290	43.20	101.7	8	5	M	32800	1890	300	5.7	M	40
YYDS03858	7.7	.	.	290	43.20	154.1	6	10	76	22600	1440	300	5.8	M	40
YYDS03859	7.7	.	.	290	43.20	177.1	8	11	38	21300	970	500	4.8	M	20
YYDS03857	7.7	.	.	290	43.20	186.4	6	14	53	28400	1220	400	6.9	2800	50
YYDS03956	6.3	.	.	48	4.20	24.0	4	4	M	7400	140	M	2.9	1800	M
YYDS03958	6.3	.	.	48	4.20	38.2	5	15	M	8500	180	M	3.6	2100	20
YYDS03959	6.3	.	.	48	4.20	78.6	7	31	44	9400	240	400	4.6	4300	20
YYDS03957	6.3	.	.	48	4.20	49.1	5	18	M	14900	210	M	3.2	2900	20
YYDS04056	7.9	.	.	285	40.20	74.6	10	3	M	25800	500	700	3.1	2100	M
YYDS04058	7.9	.	.	285	40.20	177.0	8	12	71	38100	830	1200	5.7	8300	30
YYDS04059	7.9	.	.	285	40.20	242.6	10	25	69	31500	860	2200	8.0	11500	30
YYDS04057	7.9	.	.	285	40.20	87.1	8	9	54	24400	800	1400	3.6	2100	M
YYDS04156	7.9	.	.	292	39.20	5.9	1	2	11	5300	180	M	0.6	M	M
YYDS04158	7.9	.	.	292	39.20	35.8	7	11	30	15200	520	600	3.1	M	M
YYDS04159	7.9	.	.	292	39.20	130.3	10	29	54	20300	820	2300	5.4	3400	30
YYDS04157	7.9	.	.	292	39.20	48.7	5	11	M	19300	650	800	4.0	M	20
YYDS04256	.	.	.	.	.	96.6	6	7	43	16700	780	300	4.5	4600	30
YYDS04258	.	.	.	.	.	228.5	6	19	47	23300	1120	600	5.6	M	30
YYDS04259	.	.	.	.	.	239.9	6	17	82	22500	760	600	6.7	M	40
YYDS04257	.	.	.	.	.	225.1	10	19	58	24300	930	600	4.7	M	20
YYDS04356	.	.	.	.	.	19.3	3	2	31	17700	790	M	2.7	M	30
YYDS04358	.	.	.	.	.	217.4	3	13	51	32200	1250	600	6.7	1900	50
YYDS04357	.	.	.	.	.	216.9	8	11	63	31500	1460	800	5.8	7100	50
YYDS04359	.	.	.	.	.	1.2	M	6	33	6500	490	400	1.8	1500	20
YYDS04456	.	.	.	.	.	44.2	M	M	26	12600	300	300	3.0	M	20
YYDS04458	.	.	.	.	.	249.5	8	16	47	24300	590	600	8.2	M	40
YYDS04459	.	.	.	.	.	M	M	M	N	M	M	M	M	M	M
YYDS04457	.	.	.	.	.	241.9	6	14	36	23800	650	800	8.2	2300	30
YYDS04556	.	.	.	.	.	15.6	M	4	M	11400	210	M	2.6	3000	M
YYDS04558	.	.	.	.	.	70.3	4	30	M	6800	440	M	4.8	M	30
YYDS04559	.	.	.	.	.	164.5	11	19	48	25500	540	400	7.0	M	60
YYDS04557	.	.	.	.	.	73.3	4	11	35	14600	520	300	3.0	M	30
YYDS04656	.	.	.	.	.	52.0	4	3	28	19900	570	300	2.8	M	30
YYDS04658	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS04659	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS04657	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS04756	7.7	.	.	188	21.20	14.9	2	3	11	17600	180	M	1.6	M	M
YYDS04758	7.7	.	.	188	21.20	60.4	M	25	31	15200	300	600	3.8	4000	30

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
YYDS04759	.	.	7.7	188	21.20	135.5	10	29	51	26000	380	1600	4.7	M	30
YYDS04757	.	.	7.7	188	21.20	69.8	5	23	32	22400	270	800	4.2	M	30
YYDS04856	.	.	8.4	225	12.10	6.6	M	2	M	5800	310	M	0.8	M	M
YYDS04858	.	.	8.4	225	12.10	25.5	3	11	21	14100	620	400	1.7	2900	M
YYDS04857	.	.	8.4	225	12.10	60.6	7	22	41	17100	970	800	3.7	1700	30
YYDS04859	.	.	8.4	225	12.10	1.4	3	11	31	12300	460	600	2.5	1700	M
YYDS04956	.	.	8.5	300	20.10	20.3	3	4	M	10200	310	M	2.4	2000	20
YYDS04958	.	.	8.5	300	20.10	22.9	4	10	27	10900	330	M	3.4	M	M
YYDS04959	.	.	8.5	300	20.10	65.8	8	17	70	20400	650	300	3.5	3000	20
YYDS04957	.	.	8.5	300	20.10	23.3	3	12	M	6500	290	M	1.9	M	20
YYDS05056	.	.	.	.	.	103.8	M	4	M	9800	470	300	3.5	2600	40
YYDS05058	.	.	.	.	.	77.9	3	4	24	11100	630	300	4.8	3600	30
YYDS05059	.	.	.	.	.	130.8	3	7	28	13400	510	400	3.9	M	30
YYDS05057	.	.	.	.	.	141.3	6	8	27	13400	500	300	6.4	6700	40
YYDS05156	.	.	.	.	.	19.0	3	4	26	10800	340	M	1.1	2200	20
YYDS05158	.	.	.	.	.	63.2	5	7	27	10900	560	300	3.2	2800	M
YYDS05159	.	.	.	.	.	62.0	7	8	46	16300	350	400	3.0	1300	20
YYDS05157	.	.	.	.	.	98.5	5	7	69	11100	520	400	4.2	M	20
YYDS05256	.	.	.	.	.	29.8	4	21	9	7300	200	M	1.9	M	20
YYDS05258	.	.	.	.	.	126.8	7	29	66	16400	320	300	5.0	2900	50
YYDS05259	.	.	.	.	.	102.2	7	14	M	11400	300	400	4.0	M	30
YYDS05257	.	.	.	.	.	68.1	7	15	83	22400	240	300	2.3	3800	20
YYDS05356	.	.	.	.	.	11.0	2	3	M	5500	110	M	1.2	M	M
YYDS05358	.	.	.	.	.	48.4	6	17	40	8700	310	M	3.8	2800	20
YYDS05359	.	.	.	.	.	76.3	4	12	38	11200	330	300	3.3	M	20
YYDS05357	.	.	.	.	.	50.5	7	15	40	7700	230	M	2.1	2900	20
YYDS05456	.	.	.	.	.	57.7	6	4	M	9100	300	300	2.8	M	30
YYDS05458	.	.	.	.	.	62.1	M	4	M	M	260	300	2.3	2900	20
YYDS05459	.	.	.	.	.	75.2	M	9	M	M	180	400	3.3	5100	30
YYDS05457	.	.	.	.	.	98.9	7	8	17	11500	220	400	3.3	5700	30
YYDS05556	.	.	.	.	.	6.2	M	2	M	M	M	M	0.8	M	M
YYDS05558	.	.	.	.	.	15.7	M	13	M	M	110	M	0.6	M	M
YYDS05559	.	.	.	.	.	122.5	14	63	59	15700	510	800	5.4	M	30
YYDS05557	.	.	.	.	.	29.0	4	22	31	8300	150	M	1.0	1900	M
YYDS05656	.	.	.	.	.	18.0	2	4	20	14200	190	M	2.6	2100	20
YYDS05658	.	.	.	.	.	45.2	9	23	35	8100	270	300	3.3	1400	20
YYDS05659	.	.	.	.	.	60.1	12	13	56	17500	410	1000	3.0	4200	M
YYDS05657	.	.	.	.	.	58.2	8	25	52	12900	290	500	2.9	M	20
YYDS05756	.	.	.	.	.	112.5	6	11	75	28100	730	500	4.9	12900	40
YYDS05758	.	.	.	.	.	103.5	7	21	48	18800	840	600	3.4	1700	20
YYDS05759	.	.	.	.	.	132.6	6	19	57	17900	1130	900	5.3	M	20
YYDS05757	.	.	.	.	.	144.7	10	22	77	20300	1100	800	5.1	2500	30
YYDS05856	.	.	.	.	.	114.5	8	7	36	M	470	300	5.3	3900	20
YYDS05858	.	.	.	.	.	100.8	5	7	46	14000	440	300	4.4	5100	30
YYDS05859	.	.	.	.	.	71.1	5	6	12	8500	200	M	2.9	M	20
YYDS05857	.	.	.	.	.	75.9	M	6	M	21800	370	300	3.3	10400	30
YYDS05956	.	.	.	.	.	30.3	5	6	M	7100	530	M	2.2	1000	20
YYDS05958	.	.	.	.	.	41.1	5	5	37	13000	410	300	2.2	2600	30
YYDS05959	.	.	.	.	.	73.0	12	11	35	9000	370	400	4.2	6400	40
YYDS05957	.	.	.	.	.	47.5	6	7	25	8800	200	M	1.8	3500	M
YYDS06056	.	.	.	.	.	67.9	10	5	24	14000	640	300	2.7	M	20
YYDS06058	.	.	.	.	.	82.5	6	6	34	9600	540	300	2.8	9700	20
YYDS06059	.	.	.	.	.	84.9	6	11	M	12500	380	300	4.7	2900	20
YYDS06057	.	.	.	.	.	135.6	8	9	19	10000	510	300	3.7	18600	40
YYDS06156	.	.	.	.	.	16.2	2	2	18	8300	200	M	1.4	2400	M

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

SRL I.D. *****	LATITUDE	LONGITUDE	PH	CGNJ. 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
YYDS061S8	.	.	.	.	.	57.1	4	9	M	17300	260	M	3.6	3900	30
YYDS061S7	.	.	.	.	.	111.7	6	14	37	17700	320	M	3.5	M	30
YYDS061S9	.	.	.	.	.	1.2	M	5	29	12400	200	M	3.1	1300	20
YYDS062S6	.	.	.	.	.	19.5	6	9	14	11400	260	M	0.9	1900	20
YYDS062S8	.	.	.	.	.	72.6	12	19	58	17600	590	M	2.5	5100	30
YYDS062S9	.	.	.	.	.	76.5	5	8	M	18200	950	300	2.7	M	20
YYDS062S7	.	.	.	.	.	65.2	11	14	69	21800	720	M	3.0	M	40
YYDS063S6	.	.	.	.	.	5.4	M	4	M	M	M	M	0.5	M	M
YYDS063S8	.	.	.	.	.	0.1	M	M	M	M	M	M	0.3	M	M
YYDS063S9	.	.	.	.	.	32.3	M	44	M	3500	M	M	2.5	3500	M
YYDS063S7	.	.	.	.	.	24.0	4	30	22	4200	M	M	1.5	M	M
YYDS064S6	.	.	7.1	110	6.10	3.6	M	1	M	M	M	M	1.2	M	M
YYDS064S8	.	.	7.1	110	6.10	14.7	M	15	M	5900	120	M	1.1	M	M
YYDS064S7	.	.	7.1	110	6.10	15.9	M	16	M	M	120	M	1.0	M	M
YYDS064S9	.	.	7.1	110	6.10	1.8	M	25	24	3900	150	300	3.3	2300	M
YYDS065S6	.	.	.	.	.	10.3	M	3	M	11300	120	M	1.3	M	M
YYDS065S8	.	.	.	.	.	1.3	4	8	24	4500	M	M	1.6	3700	M
YYDS065S9	.	.	.	.	.	3.3	7	16	M	13700	350	800	3.6	5400	50
YYDS065S7	.	.	.	.	.	1.7	3	10	20	3500	M	M	2.1	M	M
YYDS066S6	.	.	7.7	77	6.10	0.3	3	1	16	M	M	M	0.4	M	M
YYDS066S8	.	.	7.7	77	6.10	1.4	3	19	M	12200	200	M	1.9	5700	M
YYDS066S7	.	.	7.7	77	6.10	1.2	M	10	M	4400	160	M	1.6	2100	20
YYDS066S9	.	.	7.7	77	6.10	1.5	6	15	13	4600	160	300	1.2	1800	M
YYDS067S6	.	.	7.4	246	19.10	0.6	2	8	M	M	M	M	0.4	800	M
YYDS067S8	.	.	7.4	246	19.10	1.9	3	38	14	3800	M	M	1.2	2400	M
YYDS067S7	.	.	7.4	246	19.10	2.0	M	34	M	M	M	M	1.0	1000	M
YYDS067S9	.	.	7.4	246	19.10	1.5	4	17	M	4400	M	M	1.4	2000	M
YYDS068S6	.	.	.	.	.	0.9	M	6	M	6300	M	M	1.6	700	M
YYDS068S8	.	.	.	.	.	2.6	4	21	14	10600	M	M	4.6	M	20
YYDS068S9	.	.	.	.	.	3.4	8	15	48	16900	270	800	4.5	4900	60
YYDS068S7	.	.	.	.	.	2.5	4	17	M	7300	160	500	5.5	3100	30
YYDS069S6	.	.	.	.	.	1.1	4	1	25	14700	420	M	2.1	M	M
YYDS069S8	.	.	.	.	.	1.8	6	7	37	19900	M	M	5.6	7000	40
YYDS069S9	.	.	.	.	.	2.2	9	8	M	19100	920	500	4.1	4300	50
YYDS069S7	.	.	.	.	.	2.0	4	8	28	17600	870	600	4.0	3600	40
YYDS070S6	.	.	.	.	.	1.0	6	3	21	17700	M	M	3.4	M	M
YYDS070S8	.	.	.	.	.	2.0	8	7	32	20200	820	M	6.5	M	30
YYDS070S9	.	.	.	.	.	3.4	9	16	66	29800	930	1000	11.1	5700	70
YYDS070S7	.	.	.	.	.	2.8	7	16	36	20900	300	600	9.3	3600	50
YYDS071S6	.	.	.	.	.	1.0	3	2	M	9200	220	300	2.5	1900	20
YYDS071S8	.	.	.	.	.	2.0	7	8	37	13400	M	M	4.8	2600	30
YYDS071S9	.	.	.	.	.	3.6	10	18	42	17100	890	M	9.2	2500	M
YYDS071S7	.	.	.	.	.	1.9	9	7	27	15500	M	M	2.6	3800	M
YYDS072S6	.	.	.	.	.	1.0	M	4	28	12200	330	M	2.6	1900	20
YYDS072S8	.	.	.	.	.	2.1	8	13	76	19000	720	400	6.0	3700	40
YYDS072S9	.	.	.	.	.	3.0	8	19	63	23400	1140	M	6.0	9900	30
YYDS072S7	.	.	.	.	.	2.1	5	14	28	13500	1030	M	5.0	M	30
YYDS073S6	.	.	7.2	252	37.20	0.8	3	2	M	3200	290	M	1.3	M	20
YYDS073S8	.	.	7.2	252	37.20	1.7	2	8	30	13800	M	19200	2.9	M	20
YYDS073S9	.	.	7.2	252	37.20	3.0	4	11	46	10100	810	500	3.4	M	40
YYDS073S7	.	.	7.2	252	37.20	1.8	2	7	M	13100	530	M	2.1	1800	20
YYDS074S6	.	.	.	.	.	2.5	4	5	52	19500	1700	M	4.2	M	30
YYDS074S8	.	.	.	.	.	2.8	6	7	41	15900	1490	M	4.1	5000	30
YYDS074S7	.	.	.	.	.	3.8	8	11	56	24600	2470	700	6.6	6900	70
YYDS074S9	.	.	.	.	.	1.7	4	7	25	13900	970	500	3.1	1300	30

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
YYDS07556	.	.	.	.	.	0.6	M	2	M	9400	240	M	0.6	900	20
YYDS07558	.	.	.	.	.	2.3	7	15	M	17100	570	M	4.2	2500	20
YYDS07559	.	.	.	.	.	3.3	8	21	47	13900	760	500	5.3	3800	50
YYDS07557	.	.	.	.	.	2.2	4	13	44	16500	1000	M	4.3	M	20
YYDS07656	.	.	.	.	.	2.1	M	9	24	16900	2530	M	6.2	4400	40
YYDS07658	.	.	.	.	.	2.8	7	17	44	18800	M	M	5.8	M	40
YYDS07659	.	.	.	.	.	2.8	9	11	39	18200	2460	800	4.5	6600	50
YYDS07657	.	.	.	.	.	3.0	6	16	34	18700	3020	M	5.2	4400	60
YYDS07756	.	.	.	.	.	1.8	M	9	28	5200	M	M	4.5	M	30
YYDS07758	.	.	.	.	.	2.9	7	19	44	18900	340	300	3.2	4900	50
YYDS07759	.	.	.	.	.	4.4	13	26	72	17400	340	700	9.2	5100	40
YYDS07757	.	.	.	.	.	2.7	8	16	36	14200	330	500	4.5	4300	40
YYDS07856	.	.	.	.	.	0.8	3	3	13	10600	M	M	1.6	2900	30
YYDS07858	.	.	.	.	.	1.4	4	8	15	7300	260	M	2.3	2000	20
YYDS07859	.	.	.	.	.	3.8	11	21	65	15600	M	M	9.1	M	50
YYDS07857	.	.	.	.	.	2.8	6	18	46	18800	540	500	5.3	4200	40
YYDS07956	.	.	3.3	720	0.99	1.0	M	5	22	10800	120	M	3.6	1200	20
YYDS07958	.	.	3.3	720	0.99	1.6	2	13	M	17900	M	M	2.5	M	30
YYDS07959	.	.	3.3	720	0.99	3.6	6	31	32	19000	190	500	4.7	6200	50
YYDS07957	.	.	3.3	720	0.99	2.1	5	17	26	17200	M	M	2.6	M	M
YYDS08056	.	.	7.3	275	26.10	3.2	8	10	72	46500	1440	1100	10.8	4600	50
YYDS08058	.	.	7.3	275	26.10	3.2	14	12	97	43300	1210	1200	10.2	5500	70
YYDS08059	.	.	7.3	275	26.10	3.9	11	21	52	30700	1460	M	7.5	34900	50
YYDS08057	.	.	7.3	275	26.10	2.7	9	11	101	35500	1360	M	5.1	M	M
YYDS08156	.	.	.	.	.	1.8	5	7	41	15100	740	500	6.8	3500	50
YYDS08158	.	.	.	.	.	2.4	9	15	30	15000	590	400	8.0	3900	40
YYDS08159	.	.	.	.	.	2.6	6	10	42	18600	730	1200	4.7	6800	60
YYDS08157	.	.	.	.	.	2.5	M	12	88	20300	770	900	6.7	4700	40
YYDS08256	.	.	.	.	.	1.1	M	3	M	17200	1140	M	2.1	900	M
YYDS08258	.	.	.	.	.	2.2	M	15	M	11100	460	300	4.5	2500	30
YYDS08259	.	.	.	.	.	4.0	10	20	75	23700	M	M	9.2	5500	60
YYDS08257	.	.	.	.	.	2.6	4	14	60	19700	780	600	4.6	4300	50
YYDS08356	.	.	.	.	.	1.4	4	7	M	11000	360	300	2.8	2700	30
YYDS08358	.	.	.	.	.	1.6	6	9	50	6900	310	300	4.3	3100	30
YYDS08359	.	.	.	.	.	3.4	9	20	46	14900	M	M	6.0	5000	30
YYDS08357	.	.	.	.	.	1.4	3	5	20	8400	220	300	1.6	1800	20
YYDS08456	.	.	.	.	.	1.5	3	7	23	12300	540	M	4.7	2600	30
YYDS08458	.	.	.	.	.	2.4	8	11	66	15800	730	M	6.4	4700	50
YYDS08459	.	.	.	.	.	3.5	10	12	47	13500	1370	M	6.7	7300	40
YYDS08457	.	.	.	.	.	2.6	6	14	23	15000	M	M	7.8	3700	M
YYDS08556	.	.	.	.	.	1.0	3	5	38	7800	340	300	3.4	2400	20
YYDS08558	.	.	.	.	.	2.1	4	12	19	14800	1510	M	4.8	6400	40
YYDS08559	.	.	.	.	.	4.0	9	22	62	21900	770	900	8.6	6300	50
YYDS08557	.	.	.	.	.	2.3	6	12	36	13300	490	400	5.5	3200	30
YYDS08656	.	.	.	.	.	1.2	4	7	15	14000	M	M	2.9	3900	20
YYDS08658	.	.	.	.	.	2.5	6	18	23	19300	1360	M	7.1	M	40
YYDS08659	.	.	.	.	.	3.6	8	16	54	18200	550	800	7.3	5700	70
YYDS08657	.	.	.	.	.	2.7	7	16	48	17300	500	500	5.8	4000	50
YYDS08756	.	.	7.9	79	8.20	0.9	5	1	15	6100	210	M	1.4	M	20
YYDS08758	.	.	7.9	79	8.20	1.7	5	9	31	13700	270	300	4.8	3200	30
YYDS08759	.	.	7.9	79	8.20	3.6	8	18	M	18800	320	400	8.1	4900	40
YYDS08757	.	.	7.9	79	8.20	2.1	6	13	77	11400	M	M	4.6	9600	20
YYDS08856	.	.	7.8	28	1.20	1.1	3	3	M	16500	M	M	3.5	800	M
YYDS08858	.	.	7.8	28	1.20	2.2	M	12	M	M	1340	48200	5.8	M	40
YYDS08859	.	.	7.8	28	1.20	4.7	11	30	76	16300	480	1000	9.5	5200	60

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
YYDS08857	.	.	7.8	28	1.20	2.6	5	11	24	22500	320	700	5.7	3500	40
YYDS08856	.	.	4.3	100	0.50	1.4	2	5	30	23300	250	500	4.0	2700	50
YYDS08958	.	.	4.3	100	0.50	2.3	5	13	42	18800	230	600	8.9	3000	50
YYDS08959	.	.	4.3	100	0.50	3.9	9	16	42	22600	M	M	7.6	1700	60
YYDS08957	.	.	4.3	100	0.50	2.7	8	15	34	23300	M	M	5.8	M	M
YYDS09056	.	.	3.9	700	0.99	1.5	6	3	56	22500	220	500	3.3	2800	50
YYDS09058	.	.	3.9	700	0.99	3.0	8	9	69	18100	M	M	5.7	M	M
YYDS09059	.	.	3.9	700	0.99	2.9	10	9	24	17800	230	1000	7.1	5400	80
YYDS09057	.	.	3.9	700	0.99	2.5	12	9	43	17100	210	800	3.6	4000	60
YYDS09156	.	.	.	.	.	1.0	2	3	M	10300	M	M	2.5	M	20
YYDS09158	.	.	.	.	.	2.1	6	14	39	8800	1390	M	6.9	3800	20
YYDS09159	.	.	.	.	.	2.8	5	6	M	17400	540	500	4.9	3800	40
YYDS09157	.	.	.	.	.	2.8	5	15	14	17700	750	400	8.6	3900	40
YYDS09256	.	.	.	.	.	1.1	M	4	36	15900	M	M	2.7	M	M
YYDS09258	.	.	.	.	.	1.7	4	5	20	19900	M	M	3.5	3400	30
YYDS09259	.	.	.	.	.	3.7	12	15	96	30900	1500	1400	9.7	6000	80
YYDS09257	.	.	.	.	.	1.8	6	6	16	18100	1000	600	4.6	3800	40
YYDS09356	.	.	6.7	218	26.20	0.5	5	2	15	4100	M	M	0.6	900	M
YYDS09358	.	.	6.7	218	26.20	0.7	2	4	M	M	M	61900	0.6	M	M
YYDS09357	.	.	6.7	218	26.20	1.0	3	7	M	M	M	M	0.9	M	M
YYDS09359	.	.	6.7	218	26.20	3.0	9	43	40	6800	130	300	2.3	3500	20
YYDS09456	.	.	6.8	230	3.20	1.5	M	5	M	28300	150	300	4.3	2400	30
YYDS09458	.	.	6.8	230	3.20	1.9	6	10	34	20900	110	400	5.7	3100	30
YYDS09459	.	.	6.8	230	3.20	5.1	11	34	54	38600	M	M	9.0	1100	120
YYDS09457	.	.	6.8	230	3.20	2.4	6	13	21	21700	1120	M	4.2	M	M
YYDS09556	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS09558	.	.	.	.	.	3.8	7	17	50	20300	1260	700	7.2	M	40
YYDS09557	.	.	.	.	.	M	M	M	M	M	M	M	M	M	M
YYDS09559	.	.	.	.	.	1.6	M	5	26	9400	430	300	2.7	2000	30
YYDS09656	.	.	4.5	55	0.50	0.7	2	4	13	12400	M	M	2.1	M	20
YYDS09658	.	.	4.5	55	0.50	M	M	M	M	M	M	M	M	M	M
YYDS09657	.	.	4.5	55	0.50	1.7	3	10	17	13000	M	M	1.6	2800	M
YYDS09659	.	.	4.5	55	0.50	1.9	6	20	27	20300	M	M	3.2	2100	30
YYDS09756	.	.	5.1	90	2.50	M	M	M	M	M	M	M	M	M	M
YYDS09758	.	.	5.1	90	2.50	2.0	5	30	M	18800	M	M	3.2	2700	20
YYDS09757	.	.	5.1	90	2.50	M	M	M	M	M	M	M	M	M	M
YYDS09759	.	.	5.1	90	2.50	1.8	5	21	23	10300	M	M	3.2	1800	20
YYDS09856	.	.	6.5	50	8.30	0.4	3	2	M	M	M	M	0.6	700	M
YYDS09858	.	.	6.5	50	8.30	1.7	3	23	25	8500	190	M	0.8	2100	M
YYDS09857	.	.	6.5	50	8.30	2.4	5	41	14	4900	200	M	1.8	2700	20
YYDS09859	.	.	6.5	50	8.30	2.3	3	34	M	3200	150	M	1.7	1900	M
YYDS09956	.	.	6.8	48	11.40	0.5	2	4	M	2500	150	M	0.9	1100	M
YYDS09958	.	.	6.8	48	11.40	1.7	4	23	13	6300	190	M	1.6	2300	20
YYDS09957	.	.	6.8	48	11.40	2.3	6	29	19	7500	240	M	2.2	2500	20
YYDS09959	.	.	6.8	48	11.40	2.3	4	32	43	8400	200	300	2.3	1900	20
YYDS10056	.	.	7.3	165	19.20	2.4	6	8	52	26700	2270	500	4.7	3700	50
YYDS10058	.	.	7.3	165	19.20	2.7	6	12	M	22700	1530	400	5.3	4200	40
YYDS10059	.	.	7.3	165	19.20	3.0	8	12	35	13900	1180	M	3.0	M	20
YYDS10057	.	.	7.3	165	19.20	3.1	6	18	41	22300	M	M	5.2	1500	30
YYDS10156	.	.	7.5	152	15.20	2.7	11	11	56	33600	1410	900	7.1	5500	60
YYDS10158	.	.	7.5	152	15.20	2.4	7	8	16	20500	1370	M	6.4	M	40
YYDS10159	.	.	7.5	152	15.20	2.9	7	21	23	17300	M	M	4.4	M	M
YYDS10157	.	.	7.5	152	15.20	2.3	10	11	27	16100	540	600	3.8	3800	30
YYDS10256	.	.	7.9	205	30.20	2.3	7	8	55	36000	1570	1300	6.7	3400	50
YYDS10258	.	.	7.9	205	30.20	1.8	9	3	35	20700	1170	M	1.4	M	M

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
YYDS102S9	.	.	7.9	205	30.25	3.3	9	20	54	20800	800	1700	3.9	4900	40
YYDS102S7	.	.	7.9	205	30.25	2.5	6	17	44	23600	1140	1800	4.6	4600	50
YYDS103S6	.	.	.	.	.	0.6	2	2	M	4400	M	M	0.4	M	M
YYDS103S8	.	.	.	.	.	3.2	10	19	43	22500	M	M	7.6	22100	40
YYDS103S9	.	.	.	.	.	3.2	8	15	55	17500	330	600	5.7	4600	60
YYDS103S7	.	.	.	.	.	2.9	9	14	39	15900	300	600	6.1	3700	50
YYDS104S6	.	.	8.0	95	11.20	0.5	M	4	M	3000	M	M	0.6	800	M
YYDS104S8	.	.	8.0	95	11.20	1.8	5	23	10	M	M	M	2.1	M	20
YYDS104S7	.	.	8.0	95	11.20	2.3	8	32	33	4800	M	M	2.2	2100	20
YYDS104S9	.	.	8.0	95	11.20	1.7	5	19	20	9300	M	400	2.1	2000	20
YYDS105S6	.	.	7.9	44	3.20	0.7	3	4	M	9200	180	M	1.3	1000	M
YYDS105S8	.	.	7.9	44	3.20	2.0	M	22	M	12400	420	300	2.5	2500	30
YYDS105S7	.	.	7.9	44	3.20	2.3	8	28	37	15600	M	M	2.9	M	20
YYDS105S9	.	.	7.9	44	3.20	1.6	4	16	24	7400	230	300	1.2	2100	20
YYDS106S6	.	.	.	.	.	0.7	4	3	15	6900	M	M	1.1	M	M
YYDS106S8	.	.	.	.	.	2.5	7	20	32	16200	M	M	4.6	2000	30
YYDS106S9	.	.	.	.	.	4.0	9	24	57	20500	1240	800	7.0	7200	60
YYDS106S7	.	.	.	.	.	1.8	8	22	40	11000	460	300	2.2	M	30
YYDS107S6	.	.	7.8	220	30.20	0.8	4	6	M	11300	M	M	2.2	M	M
YYDS107S8	.	.	7.8	220	30.20	1.3	3	12	22	12100	1080	M	1.9	M	M
YYDS107S7	.	.	7.8	220	30.20	2.7	7	21	43	13000	810	500	4.8	4300	50
YYDS107S9	.	.	7.8	220	30.20	1.6	8	18	35	11000	300	300	2.3	2100	M

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
YD502056	11600	1.2	-1.0	11	2	-1.0	-0.2
YD502058	21000	0.3	-0.5	23	4	-1.0	0.4
YD502059	32400	0.9	-1.0	31	5	4.7	0.5
YD502057	25500	0.4	-0.5	33	5	4.4	0.4
YD502156	8700	-1.0	-0.5	9	2	-1.0	-0.2
YD502158	12900	0.1	-0.5	15	3	-1.0	0.4
YD502159	36000	13.1	-1.4	31	8	-1.0	0.8
YD502157	13500	-1.0	-0.5	16	2	-1.0	-0.2
YD502256	7400	0.1	-0.5	8	1	-1.0	-0.2
YD502258	9300	-1.0	-0.5	12	3	-1.0	0.4
YD502259	18300	0.7	-0.5	42	5	6.6	0.8
YD502257	10100	-1.0	-0.5	17	3	-1.0	0.3
YD502356	12800	-1.0	-0.5	11	1	-1.0	0.1
YD502358	26900	-1.0	-0.5	26	4	2.5	0.4
YD502359	45200	-1.0	-1.6	40	10	-1.0	1.1
YD502357	29100	4.6	-0.8	32	4	-1.0	0.4
YD502456	6000	-1.0	-0.5	7	1	-1.0	-0.2
YD502458	10800	-1.0	-1.1	13	M	-1.0	-0.2
YD502459	28000	6.6	-1.3	34	7	-1.0	0.8
YD502457	11800	0.2	-0.5	19	2	-1.0	0.3
YD502556	27400	0.3	-0.5	19	3	1.3	0.2
YD502558	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502559	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502557	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502656	9500	-1.0	-0.5	9	2	-1.0	-0.2
YD502658	18600	-1.0	-0.5	21	3	-1.0	-0.2
YD502659	34200	-1.0	-0.5	34	4	-1.0	0.5
YD502657	22500	-1.0	-0.5	20	3	-1.0	0.3
YD502756	22100	-1.0	-0.5	17	3	-1.0	-0.2
YD502758	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502759	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502757	M	-1.0	-0.5	M	M	-1.0	-0.2
YD502856	5700	-1.0	4.6	8	1	2.4	-0.2
YD502858	22600	0.3	-0.5	19	2	-1.0	0.2
YD502859	24800	-1.0	-0.5	17	3	-1.0	-0.2
YD502857	23700	0.2	-0.5	22	3	4.1	0.5
YD502956	8800	0.2	0.5	10	1	-1.0	0.1
YD502958	9900	0.1	-0.8	13	1	-1.0	-0.2
YD502959	26400	0.7	-0.5	44	6	4.3	0.8
YD502957	17800	0.3	-0.5	25	3	2.4	0.4
YD503056	27400	0.3	-3.5	21	2	-1.0	0.1
YD503058	M	-1.0	-3.5	M	M	-1.0	-0.2
YD503059	M	-1.0	-3.5	M	M	-1.0	-0.2
YD503057	M	-1.0	-0.5	M	M	-1.0	-0.2
YD503156	23300	0.1	-0.8	27	3	2.7	-0.2
YD503158	26900	0.4	-0.6	23	5	-1.0	0.4
YD503159	M	-1.0	-0.5	M	M	-1.0	-0.2
YD503157	31600	-1.0	-0.5	33	5	-1.0	0.3
YD503256	12600	-1.0	-0.5	15	2	-1.0	0.1
YD503258	23200	0.8	-0.5	32	3	3.8	0.2

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
YYDS032S9	34100	0.9	-0.5	39	7	5.9	0.8
YYDS032S7	26700	0.6	-0.5	31	5	-1.0	0.4
YYDS033S6	25000	0.4	-0.5	22	3	2.3	0.4
YYDS033S8	23000	0.3	-0.5	28	4	2.0	0.3
YYDS033S9	28300	0.5	-0.6	53	3	3.0	0.3
YYDS033S7	26200	-1.0	-0.5	27	4	-1.0	0.4
YYDS034S6	9400	0.1	-0.5	11	1	-1.0	-0.2
YYDS034S8	19300	0.8	-0.5	14	1	-1.0	-0.2
YYDS034S9	35400	0.3	-0.6	33	3	3.1	0.4
YYDS034S7	28900	0.3	-0.5	26	3	1.4	0.4
YYDS035S6	30900	-1.0	-0.5	26	3	-1.0	0.1
YYDS035S8	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS035S9	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS035S7	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS036S6	15000	0.1	0.8	20	3	-1.0	-0.2
YYDS036S8	17200	0.1	-0.5	25	2	-1.0	0.2
YYDS036S9	24200	0.4	-0.8	26	6	3.0	0.4
YYDS036S7	20600	0.3	-0.5	29	6	2.2	0.3
YYDS037S6	7100	0.1	-0.5	5	2	-1.0	0.1
YYDS037S8	11700	0.2	-0.5	10	2	-1.0	0.2
YYDS037S9	24800	-1.0	5.2	20	4	-1.0	0.7
YYDS037S7	13300	0.1	-0.5	11	2	-1.0	-0.2
YYDS038S6	22800	0.8	-0.5	27	7	3.7	0.3
YYDS038S8	27500	0.7	2.4	35	8	-1.0	0.5
YYDS038S9	21300	0.5	1.1	38	8	4.2	0.7
YYDS038S7	30200	1.0	2.6	35	8	4.2	0.7
YYDS039S6	10700	-1.0	-0.5	14	3	-1.0	-0.2
YYDS039S8	14000	0.3	-0.5	14	2	-1.0	0.3
YYDS039S9	17700	0.4	-0.5	32	6	5.3	0.8
YYDS039S7	15200	-1.0	-1.4	19	4	-1.0	-0.2
YYDS040S6	16900	-1.0	-0.9	18	3	-1.0	-0.2
YYDS040S8	30800	0.8	-0.5	28	7	3.1	0.5
YYDS040S9	33200	0.5	-0.5	35	6	4.1	0.7
YYDS040S7	17300	-1.0	-0.5	25	4	-1.0	0.2
YYDS041S6	5900	-1.0	-0.5	5	1	-1.0	0.1
YYDS041S8	15600	-1.0	-0.5	18	3	-1.0	-0.2
YYDS041S9	25500	0.6	1.1	26	5	4.2	0.6
YYDS041S7	18300	0.3	-0.5	12	3	-1.0	-0.2
YYDS042S6	22800	0.2	-0.5	16	4	-1.0	0.3
YYDS042S8	32700	0.4	-0.5	34	4	-1.0	0.4
YYDS042S9	34600	-1.0	-0.5	34	4	-1.0	-0.2
YYDS042S7	33400	0.7	-0.6	32	5	-1.0	-0.2
YYDS043S6	11200	0.4	-0.5	10	3	-1.0	0.1
YYDS043S8	32500	0.4	-0.5	25	5	-1.0	0.4
YYDS043S7	32200	0.6	0.7	30	6	3.0	0.5
YYDS043S9	11000	0.4	-0.8	10	3	-1.0	-0.2
YYDS044S6	16900	-1.0	-0.5	23	3	-1.0	0.2
YYDS044S8	34400	0.5	-0.5	34	5	-1.0	0.3
YYDS044S9	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS044S7	34100	-1.0	2.4	43	6	2.3	0.6

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SRL I.D.
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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYDS04556	10700	0.2	-0.5	14	1	2.6	0.3
YYDS04558	20200	0.5	-0.5	25	2	-1.0	0.3
YYDS04559	28500	0.5	-0.5	41	6	5.1	0.5
YYDS04557	16300	-1.0	1.0	24	3	-1.0	0.2
YYDS04656	17500	2.2	0.5	14	3	-1.0	0.1
YYDS04658	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS04659	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS04657	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS04756	10700	-1.0	-0.5	15	2	-1.0	-0.2
YYDS04758	18500	0.2	-0.5	27	2	-1.0	0.4
YYDS04759	26500	0.2	-0.6	47	5	5.2	0.3
YYDS04757	20200	0.6	-0.5	20	3	2.4	0.3
YYDS04856	6000	0.8	-0.5	7	2	-1.0	-0.2
YYDS04858	9600	0.2	-0.5	16	3	-1.0	-0.2
YYDS04857	18800	0.4	-0.5	16	3	2.6	0.3
YYDS04859	10400	0.2	-0.5	13	3	-1.0	0.2
YYDS04956	11200	0.4	-0.5	11	2	-1.0	0.2
YYDS04958	10300	-1.0	-0.5	13	2	2.2	-0.2
YYDS04959	16700	0.2	-0.5	36	4	-1.0	0.4
YYDS04957	11200	1.9	-0.5	18	3	-1.0	0.2
YYDS05056	24900	0.2	-0.5	22	3	-1.0	-0.2
YYDS05058	17900	-1.0	1.9	30	2	-1.0	-0.2
YYDS05059	27500	-1.0	-0.5	23	2	-1.0	0.2
YYDS05057	28100	0.2	-0.5	16	2	2.2	-0.2
YYDS05156	8300	-1.0	-0.5	13	1	-1.0	-0.2
YYDS05158	14900	0.4	1.0	18	2	1.4	-0.2
YYDS05159	15400	-1.0	-1.0	21	2	-1.0	-0.2
YYDS05157	23900	-1.0	-0.5	28	3	2.2	0.2
YYDS05256	10300	-1.0	-0.5	12	2	-1.0	-0.2
YYDS05258	25500	0.2	-0.6	36	5	-1.0	0.3
YYDS05259	23900	0.2	-0.5	29	M	-1.0	-0.2
YYDS05257	16800	0.3	-0.5	26	5	-1.0	-0.2
YYDS05356	6300	-1.0	0.6	8	1	-1.0	-0.2
YYDS05358	13300	0.1	-0.5	31	3	2.1	0.2
YYDS05359	20700	1.8	-0.6	18	3	-1.0	0.3
YYDS05357	14500	1.1	-0.5	23	4	-1.0	-0.2
YYDS05456	15200	1.7	-0.5	14	2	3.0	-0.2
YYDS05458	14200	0.2	M	40	M	-1.0	-0.4
YYDS05459	20900	0.7	M	33	M	-1.0	-0.2
YYDS05457	23600	1.2	-0.6	16	3	-1.0	0.4
YYDS05556	6000	0.7	-0.5	7	1	-1.0	-0.2
YYDS05558	5000	0.9	-0.5	9	3	-1.0	-0.2
YYDS05559	23400	0.6	-0.6	31	6	5.4	0.7
YYDS05557	8000	0.9	-0.5	11	4	1.4	0.3
YYDS05656	11700	0.1	-0.5	11	2	-1.0	-0.2
YYDS05658	12700	1.2	-0.6	23	3	3.2	0.3
YYDS05659	15600	0.4	-0.5	27	5	-1.0	0.5
YYDS05657	14400	0.4	-0.5	28	5	2.7	0.3
YYDS05756	26600	0.4	-0.5	23	8	-1.0	-0.2
YYDS05758	19300	0.4	-0.5	26	6	-1.0	-0.2

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

YYDS05759	23400	0.4	-1.0	27	5	3.2	0.3
YYDS05757	22600	0.5	0.8	35	8	1.8	0.4
YYDS05856	25500	-1.0	-0.5	17	2	-1.0	-0.2
YYDS05858	23900	-1.0	-0.8	18	2	-1.0	-0.2
YYDS05859	15300	0.2	-0.5	12	3	-1.0	-0.2
YYDS05857	17500	0.2	-0.5	19	2	-1.0	-0.2
YYDS05956	12600	0.2	-0.9	10	2	-1.0	-0.2
YYDS05958	12500	0.1	-0.5	14	4	-1.0	0.2
YYDS05959	18600	1.4	-0.7	20	5	-1.0	-0.2
YYDS05957	12700	-1.0	0.7	9	3	3.5	-0.2
YYDS06056	16600	2.3	-0.5	14	2	-1.0	0.3
YYDS06058	19400	0.4	-0.5	22	2	-1.0	0.4
YYDS06059	23000	0.3	-0.5	17	3	-1.0	0.2
YYDS06057	27400	0.5	-0.5	21	3	-1.0	-0.2
YYDS06156	8300	-1.0	-0.5	8	1	-1.0	-0.2
YYDS06158	17030	-1.0	-0.5	18	4	-1.0	-0.2
YYDS06157	22730	0.2	-0.5	15	3	-1.0	-0.2
YYDS06159	12000	0.2	-0.5	6	1	-1.0	-0.2
YYDS06256	7000	-1.0	3.4	13	3	-1.0	0.2
YYDS06258	15500	2.6	1.2	26	4	3.3	0.4
YYDS06259	16500	0.1	-0.5	20	2	-1.0	0.2
YYDS06257	15700	-1.0	-0.5	24	6	5.5	0.3
YYDS06356	4400	0.5	-0.5	5	M	-1.0	-0.2
YYDS06358	M	-1.0	-0.6	M	M	-1.0	-0.2
YYDS06359	11200	0.4	-0.5	18	4	2.0	0.4
YYDS06357	7000	1.7	-0.5	17	3	2.2	0.3
YYDS06456	3500	0.3	-0.5	4	1	-1.0	-0.2
YYDS06458	6200	1.0	-0.5	10	2	-1.0	-0.2
YYDS06457	5800	1.1	-0.5	12	3	-1.0	-0.2
YYDS06459	7700	2.8	-0.5	10	2	-1.0	0.3
YYDS06556	9400	0.9	-0.5	8	1	-1.0	-0.2
YYDS06558	11400	0.2	-0.5	11	2	-1.0	0.2
YYDS06559	29000	0.1	-0.5	23	5	5.0	0.5
YYDS06557	M	0.1	-0.5	14	3	-1.0	0.3
YYDS06656	M	0.5	-0.5	2	1	-1.0	-0.2
YYDS06658	12200	-1.0	-0.5	10	2	2.9	0.2
YYDS06657	10500	1.0	-0.5	10	1	2.2	-0.2
YYDS06659	7600	2.9	-0.5	11	2	-1.0	0.2
YYDS06756	4100	0.6	-0.5	4	M	-1.0	-0.2
YYDS06758	9500	2.0	-0.5	8	2	2.5	0.3
YYDS06757	M	-1.0	-0.6	9	1	-1.0	0.6
YYDS06759	8500	4.1	-0.5	8	2	-1.0	0.3
YYDS06856	M	0.1	-0.5	7	2	2.8	-0.2
YYDS06858	M	0.3	-0.5	17	3	-1.0	0.4
YYDS06859	33700	-1.0	-0.7	24	6	3.3	0.4
YYDS06857	24100	0.4	-0.5	13	2	-1.0	-0.2
YYDS06956	12700	-1.0	-0.5	12	2	-1.0	0.2
YYDS06958	22500	0.1	-0.5	20	4	-1.0	0.2
YYDS06959	27800	0.2	3.0	22	6	-1.0	0.3
YYDS06957	21700	0.1	-1.3	20	4	-1.0	-0.2

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
YYDS07056	19200	-1.0	1.4	15	3	1.4	0.1
YYDS07058	30400	-1.0	-0.5	24	4	2.2	0.3
YYDS07059	48500	0.6	1.3	37	6	2.6	0.5
YYDS07057	45500	0.6	-0.7	26	4	3.0	0.2
YYDS07156	15100	1.8	-0.5	9	2	-1.0	-0.2
YYDS07158	25800	0.2	-0.6	15	4	-1.0	-0.2
YYDS07159	35700	0.6	2.0	27	6	2.9	0.4
YYDS07157	4600	-1.0	-0.5	18	5	-1.0	0.2
YYDS07256	15200	0.1	-0.5	10	2	-1.0	0.2
YYDS07258	28300	6.7	-0.7	19	3	-1.0	0.3
YYDS07259	14700	0.6	0.9	29	6	3.2	0.4
YYDS07257	25300	-1.0	-0.7	18	4	-1.0	0.2
YYDS07356	6100	-1.0	-0.5	3	1	-1.0	-0.2
YYDS07358	13400	1.5	-0.5	9	2	-1.0	-0.2
YYDS07359	19700	-1.0	-0.5	14	4	-1.0	0.4
YYDS07357	9500	-1.0	-0.8	11	2	2.3	-0.2
YYDS07456	22800	0.5	-0.8	22	5	-1.0	0.4
YYDS07458	23200	0.2	-2.6	29	6	4.6	0.3
YYDS07457	35100	0.4	-0.5	33	7	5.4	0.6
YYDS07459	15000	0.8	-0.5	17	4	-1.0	0.3
YYDS07556	9300	-1.0	-0.5	5	1	-1.0	-0.2
YYDS07558	16300	-1.0	2.6	18	4	-1.0	0.4
YYDS07559	25400	0.6	-0.6	22	4	1.7	0.4
YYDS07557	26000	0.1	-0.6	18	4	1.4	0.2
YYDS07656	27300	0.2	-0.7	20	3	-1.0	-0.2
YYDS07658	26600	0.4	-0.5	24	4	1.9	0.2
YYDS07659	22800	-1.0	-0.6	21	6	4.8	-0.2
YYDS07657	29500	-1.0	-0.5	23	4	2.6	0.3
YYDS07756	29200	-1.0	-0.7	18	4	4.6	0.3
YYDS07758	32400	-1.0	1.4	20	4	2.1	0.4
YYDS07759	22800	1.0	-0.7	30	7	5.6	0.6
YYDS07757	25500	0.9	-0.5	18	4	2.8	0.4
YYDS07856	M	-1.0	-0.5	7	1	-1.0	-0.2
YYDS07858	14100	-1.0	-0.5	10	2	-1.0	-0.2
YYDS07859	21800	-1.0	-0.5	30	5	6.1	0.6
YYDS07857	25100	-1.0	0.3	22	3	2.4	0.4
YYDS07956	3800	0.6	-0.5	7	1	-1.0	-0.2
YYDS07958	M	0.2	-0.5	10	3	-1.0	0.4
YYDS07959	28000	1.4	-0.6	19	5	2.6	0.5
YYDS07957	16700	-1.0	-0.5	11	2	-1.0	0.4
YYDS08056	44800	-1.0	-0.9	37	7	-1.0	0.3
YYDS08058	52000	-1.0	-0.6	36	8	-1.0	0.4
YYDS08059	34300	0.3	-0.8	31	5	1.9	0.5
YYDS08057	14700	0.2	-0.5	29	6	-1.0	0.4
YYDS08156	34200	-1.0	-0.7	19	3	-1.0	0.2
YYDS08158	31700	1.0	-9.8	23	5	-1.0	-0.2
YYDS08159	30400	-1.0	-1.0	30	6	-1.0	0.5
YYDS08157	30700	-1.0	-0.5	26	6	2.7	0.5
YYDS08256	7000	0.3	-0.6	10	2	-1.0	-0.2
YYDS08258	16000	0.6	-0.5	15	2	-1.0	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
YYDS08259	34300	0.7	-2.1	37	8	4.2	0.7
YYDS08257	28100	0.2	1.4	21	5	2.6	0.3
YYDS08356	18800	-1.0	-0.5	13	3	-1.0	0.1
YYDS08358	21300	0.4	-0.5	15	2	-1.0	-0.2
YYDS08359	26500	0.5	-0.8	26	5	4.5	0.5
YYDS08357	12400	3.3	-0.5	12	3	-1.0	0.2
YYDS08456	21000	0.3	-0.5	12	2	-1.0	-0.2
YYDS08458	32100	1.1	-0.6	23	4	-1.0	0.4
YYDS08459	14800	-1.0	-1.0	29	5	3.8	0.4
YYDS08457	6900	0.3	-0.5	27	5	-1.0	0.3
YYDS08556	15900	0.2	-0.5	8	2	-1.0	-0.2
YYDS08558	11500	0.3	2.2	19	4	-1.0	0.6
YYDS08559	35100	1.1	-0.8	32	6	4.8	0.6
YYDS08557	23200	0.3	-1.6	19	4	2.1	0.3
YYDS08656	2200	0.2	-0.5	10	2	-1.0	-0.2
YYDS08658	22200	1.1	-0.5	20	4	-1.0	0.3
YYDS08659	47100	2.9	-0.8	29	4	-1.0	0.4
YYDS08657	33800	-1.0	-0.5	24	4	2.9	0.3
YYDS08756	14200	-1.0	-0.5	9	2	-1.0	-0.2
YYDS08758	22800	-1.0	0.9	16	4	1.8	0.3
YYDS08759	33500	3.1	3.1	23	5	-1.0	0.6
YYDS08757	20600	-1.0	-0.7	17	4	-1.0	0.4
YYDS08856	10000	-1.0	-0.6	12	3	-1.0	-0.2
YYDS08858	19400	0.3	-0.9	M	M	-1.0	0.1
YYDS08859	44300	0.6	-0.8	31	6	2.9	0.6
YYDS08857	29300	0.1	-0.6	22	5	3.7	0.4
YYDS08956	29200	0.2	-0.6	15	3	-1.0	-0.2
YYDS08958	34000	5.4	-0.5	19	4	2.8	0.3
YYDS08959	M	0.4	-0.8	29	5	-1.0	0.5
YYDS08957	M	-1.0	-0.5	22	4	-1.0	0.2
YYDS09056	35100	-1.0	-0.6	20	5	-1.0	-0.2
YYDS09058	M	0.6	-0.8	31	5	1.9	0.2
YYDS09059	54100	0.5	2.9	30	7	-1.0	0.5
YYDS09057	49100	0.3	-1.2	28	7	2.1	0.4
YYDS09156	8600	0.3	-0.5	9	2	-1.0	-0.2
YYDS09158	12000	0.4	-0.6	15	2	2.5	0.3
YYDS09159	28100	-1.0	-1.0	21	4	2.0	0.4
YYDS09157	32000	1.3	-0.6	20	3	1.7	0.2
YYDS09256	9200	0.1	1.8	10	2	-1.0	-0.2
YYDS09258	13900	0.2	-0.5	15	3	-1.0	-0.2
YYDS09259	45100	0.7	-0.5	33	8	4.5	0.3
YYDS09257	23400	-1.0	-0.5	17	4	2.5	0.2
YYDS09356	5700	-1.0	-0.5	4	1	-1.0	-0.2
YYDS09358	M	-1.0	-0.5	4	1	-1.0	-0.2
YYDS09357	M	-1.0	-0.6	9	1	-1.0	-0.2
YYDS09359	10000	4.4	-0.5	15	4	2.2	0.7
YYDS09456	24500	0.2	-0.5	14	3	-1.0	-0.2
YYDS09458	23400	-1.0	-0.5	13	2	-1.0	-0.2
YYDS09459	M	1.9	1.8	27	6	5.1	0.7
YYDS09457	M	-1.0	-0.9	18	3	-1.0	0.2

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

YYDS09556	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS09558	53200	0.5	-0.5	28	5	-1.0	0.3
YYDS09557	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS09559	15700	0.4	-0.7	13	3	-1.0	0.3
YYDS09656	11400	0.6	-0.5	7	1	-1.0	-0.2
YYDS09658	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS09657	12300	-1.0	-0.5	8	1	1.6	0.3
YYDS09659	16400	2.6	-0.5	12	2	2.0	0.3
YYDS09756	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS09758	11500	3.3	-0.5	10	2	-1.0	0.3
YYDS09757	M	-1.0	-0.5	M	M	-1.0	-0.2
YYDS09759	8100	3.5	-0.5	9	1	3.8	0.2
YYDS09856	3800	0.7	-0.5	4	1	-1.0	-0.2
YYDS09858	8300	0.1	-0.5	7	2	-1.0	0.3
YYDS09857	10300	0.9	-0.5	9	2	3.1	0.3
YYDS09859	6800	4.1	1.3	9	2	1.7	0.4
YYDS09956	6900	1.2	-0.5	6	1	-1.0	-0.2
YYDS09958	9900	1.8	-0.5	10	2	2.8	0.3
YYDS09957	12300	-1.0	-0.5	9	2	-1.0	0.3
YYDS09959	9100	0.1	-0.5	15	4	3.3	0.5
YYDS10056	22800	0.3	1.8	20	4	-1.0	-0.2
YYDS10058	23600	0.4	-1.8	22	5	-1.0	0.5
YYDS10059	13200	0.1	-0.5	20	3	2.7	0.3
YYDS10057	23700	0.4	-0.5	23	6	2.7	0.4
YYDS10156	34600	0.3	-0.8	27	6	-1.0	0.3
YYDS10158	29900	0.6	-0.5	22	4	3.4	0.3
YYDS10159	19100	0.4	-0.6	21	3	4.8	0.7
YYDS10157	20200	2.6	-1.0	21	4	-1.0	0.2
YYDS10256	28000	0.3	-0.7	22	4	3.4	0.3
YYDS10258	4600	0.1	-0.5	15	3	-1.0	0.3
YYDS10259	20500	3.2	-0.8	23	4	5.1	0.3
YYDS10257	27000	-1.0	1.7	24	5	3.1	0.3
YYDS10356	5900	0.1	-0.5	5	1	-1.0	-0.2
YYDS10358	13200	0.3	-1.0	27	5	-1.0	0.2
YYDS10359	40000	0.5	-0.5	24	4	1.9	0.4
YYDS10357	34100	2.9	-0.5	23	5	1.9	0.4
YYDS10456	5700	-1.0	-0.5	4	1	-1.0	-0.2
YYDS10458	M	0.1	-0.5	18	2	-1.0	0.2
YYDS10457	11100	2.6	-0.5	15	3	1.7	0.4
YYDS10459	14300	4.0	-0.5	12	3	-1.0	0.5
YYDS10556	9400	-1.0	-0.5	7	2	-1.0	-0.2
YYDS10558	17500	0.5	-0.5	13	2	-1.0	-0.2
YYDS10557	5500	0.2	1.7	13	4	-1.0	-0.2
YYDS10559	12500	1.8	-0.5	11	2	1.6	0.3
YYDS10656	26000	0.9	2.0	6	2	-1.0	-0.2
YYDS10658	26900	0.6	-9.7	21	5	-1.0	0.4
YYDS10659	34500	0.7	1.6	35	7	3.0	0.6
YYDS10657	16300	-1.0	-3.6	13	3	1.8	-0.2
YYDS10756	11000	-1.0	-3.5	7	2	-1.0	-0.2
YYDS10758	16600	-1.0	-3.7	10	2	-1.0	-0.2

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
YYDS10757	26400	1.0	-0.6	20	4	-1.0	0.4
YYDS10759	10200	0.2	3.0	13	3	5.3	-0.2

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

***** ***** ***** SRL I.D. ***** ***** ***** *****	SAMPDATE	V E L O C I T Y	S T R O W I D T H	S T R O 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
YYDS02056	7/19/77	1	8	4	5	3	2	1	4	5	1	.	.	.	29
YYDS02058	7/19/77	1	8	4	5	3	2	1	4	5	1	.	.	.	29
YYDS02059	7/19/77	1	8	4	5	3	2	1	4	5	1	.	.	.	29
YYDS02057	7/19/77	1	8	4	5	3	2	1	4	5	1	.	.	.	29
YYDS02156	7/19/77	2	6	4	5	2	1	1	3	5	1	.	.	.	27
YYDS02158	7/19/77	2	6	4	5	2	1	1	3	5	1	.	.	.	27
YYDS02159	7/19/77	2	6	4	5	2	1	1	3	5	1	.	.	.	27
YYDS02157	7/19/77	2	6	4	5	2	1	1	3	5	1	.	.	.	27
YYDS02256	7/19/77	2	6	4	5	2	2	3	3	5	1	.	.	.	26
YYDS02258	7/19/77	2	6	4	5	2	2	3	3	5	1	.	.	.	26
YYDS02259	7/19/77	2	6	4	5	2	2	3	3	5	1	.	.	.	26
YYDS02257	7/19/77	2	6	4	5	2	2	3	3	5	1	.	.	.	26
YYDS02356	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02358	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02359	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02357	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02456	7/19/77	2	5	2	5	2	1	1	3	5	1	.	.	.	25
YYDS02458	7/19/77	2	5	2	5	2	1	1	3	5	1	.	.	.	25
YYDS02459	7/19/77	2	5	2	5	2	1	1	3	5	1	.	.	.	25
YYDS02457	7/19/77	2	5	2	5	2	1	1	3	5	1	.	.	.	25
YYDS02556	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02558	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02559	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02557	7/19/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02656	7/19/77	3	5	3	5	2	1	2	3	5	1	.	.	.	24
YYDS02658	7/19/77	3	5	3	5	2	1	2	3	5	1	.	.	.	24
YYDS02659	7/19/77	3	5	3	5	2	1	2	3	5	1	.	.	.	24
YYDS02657	7/19/77	3	5	3	5	2	1	2	3	5	1	.	.	.	24
YYDS02756	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02758	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02759	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02757	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS02856	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS02858	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS02859	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS02857	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS02956	7/20/77	3	4	2	5	3	2	1	3	5	1	.	.	.	24
YYDS02958	7/20/77	3	4	2	5	3	2	1	3	5	1	.	.	.	24
YYDS02959	7/20/77	3	4	2	5	3	2	1	3	5	1	.	.	.	24
YYDS02957	7/20/77	3	4	2	5	3	2	1	3	5	1	.	.	.	24
YYDS03056	7/20/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS03058	7/20/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS03059	7/20/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS03057	7/20/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS03156	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS03158	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS03159	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS03157	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS03256	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS03258	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M

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

SRL I.D.	SAMPDATE	V E L O C I T Y	S T R O W I D T H	S T R O W I D 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 T A T I O N	R E L I E F	W E A T H E R	C O N T A M I N 1	C O N T A M I N 2	C O N T A M I N 3	T E M P
YYDS032S9	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS032S7	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS033S6	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS033S8	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS033S9	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS033S7	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS034S6	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS034S8	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS034S9	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS034S7	7/20/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS035S6	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS035S8	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS035S9	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS035S7	7/20/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS036S6	7/20/77	1	4	1	5	1	2	1	4	5	1	.	.	.	29
YYDS036S8	7/20/77	1	4	1	5	1	2	1	4	5	1	.	.	.	29
YYDS036S9	7/20/77	1	4	1	5	1	2	1	4	5	1	.	.	.	29
YYDS036S7	7/20/77	1	4	1	5	1	2	1	4	5	1	.	.	.	29
YYDS037S6	7/20/77	3	5	4	5	2	1	2	3	5	1	.	.	.	32
YYDS037S8	7/20/77	3	5	4	5	2	1	2	3	5	1	.	.	.	32
YYDS037S9	7/20/77	3	5	4	5	2	1	2	3	5	1	.	.	.	32
YYDS037S7	7/20/77	3	5	4	5	2	1	2	3	5	1	.	.	.	32
YYDS038S6	7/21/77	3	5	3	5	2	1	1	3	5	1	.	.	.	23
YYDS038S8	7/21/77	3	5	3	5	2	1	1	3	5	1	.	.	.	23
YYDS038S9	7/21/77	3	5	3	5	2	1	1	3	5	1	.	.	.	23
YYDS038S7	7/21/77	3	5	3	5	2	1	1	3	5	1	.	.	.	23
YYDS039S6	7/21/77	1	4	2	5	2	3	1	3	5	1	.	.	.	22
YYDS039S8	7/21/77	1	4	2	5	2	3	1	3	5	1	.	.	.	22
YYDS039S9	7/21/77	1	4	2	5	2	3	1	3	5	1	.	.	.	22
YYDS039S7	7/21/77	1	4	2	5	2	3	1	3	5	1	.	.	.	22
YYDS040S6	7/21/77	2	4	3	5	2	1	1	3	5	1	.	.	.	24
YYDS040S8	7/21/77	2	4	3	5	2	1	1	3	5	1	.	.	.	24
YYDS040S9	7/21/77	2	4	3	5	2	1	1	3	5	1	.	.	.	24
YYDS040S7	7/21/77	2	4	3	5	2	1	1	3	5	1	.	.	.	24
YYDS041S6	7/21/77	2	4	2	5	2	2	1	3	5	1	.	.	.	25
YYDS041S8	7/21/77	2	4	2	5	2	2	1	3	5	1	.	.	.	25
YYDS041S9	7/21/77	2	4	2	5	2	2	1	3	5	1	.	.	.	25
YYDS041S7	7/21/77	2	4	2	5	2	2	1	3	5	1	.	.	.	25
YYDS042S6	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS042S8	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS042S9	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS042S7	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS043S6	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS043S8	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS043S7	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS043S9	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS044S6	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS044S8	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS044S9	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS044S7	7/21/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M

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

SRL I.D.	SAMPDATE	W E L O C I T Y	S T R I D T H	S T R I D 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 D E N S	R E L I E F	W E A T H E R	C O N T A M I N 1	C O N T A M I N 2	C O N T A M I N 3	T E M P
YYDS04556	7/21/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS04558	7/21/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS04559	7/21/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS04557	7/21/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS04656	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS04658	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS04659	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS04657	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS04756	7/21/77	2	4	1	5	2	3	1	3	5	1	.	.	.	27
YYDS04758	7/21/77	2	4	1	5	2	3	1	3	5	1	.	.	.	27
YYDS04759	7/21/77	2	4	1	5	2	3	1	3	5	1	.	.	.	27
YYDS04757	7/21/77	2	4	1	5	2	3	1	3	5	1	.	.	.	27
YYDS04856	7/21/77	2	5	4	5	2	2	1	3	5	1	.	.	.	29
YYDS04858	7/21/77	2	5	4	5	2	2	1	3	5	1	.	.	.	29
YYDS04857	7/21/77	2	5	4	5	2	2	1	3	5	1	.	.	.	29
YYDS04859	7/21/77	2	5	4	5	2	2	1	3	5	1	.	.	.	29
YYDS04956	7/21/77	2	6	2	5	2	1	2	3	5	1	.	.	.	30
YYDS04958	7/21/77	2	6	2	5	2	1	2	3	5	1	.	.	.	30
YYDS04959	7/21/77	2	6	2	5	2	1	2	3	5	1	.	.	.	30
YYDS04957	7/21/77	2	6	2	5	2	1	2	3	5	1	.	.	.	30
YYDS05056	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05058	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05059	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05057	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05156	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05158	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05159	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05157	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05256	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05258	7/21/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS05259	7/21/77	6	9	9	5	1	5	2	3	5	1	.	.	.	M
YYDS05257	7/21/77	6	9	9	5	1	5	2	3	5	1	.	.	.	M
YYDS05356	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05358	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05359	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05357	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05456	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05458	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05459	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05457	7/21/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS05556	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05558	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05559	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05557	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05656	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05658	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05659	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05657	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05756	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS05758	7/22/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M

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

***** ***** ***** SRL I.D. ***** ***** *****		SAMPDATE	V E L O C I T Y	S T R O W I D T H	S T R O W D E P T H	R E L I E F E	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 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
YYDS057S9	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS057S7	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS058S6	7/22/77	6	9	9	5	1	6	1	4	5	3					M
YYDS058S8	7/22/77	6	9	9	5	1	6	1	4	5	3					M
YYDS058S9	7/22/77	6	9	9	5	1	6	1	4	5	3					M
YYDS058S7	7/22/77	6	9	9	5	1	6	1	4	5	3					M
YYDS059S6	7/22/77	6	9	9	5	1	6	1	3	5	3					M
YYDS059S8	7/22/77	6	9	9	5	1	6	1	3	5	3					M
YYDS059S9	7/22/77	6	9	9	5	1	6	1	3	5	3					M
YYDS059S7	7/22/77	6	9	9	5	1	6	1	3	5	3					M
YYDS060S6	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS060S8	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS060S9	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS060S7	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS061S6	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS061S8	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS061S7	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS061S9	7/22/77	6	9	9	5	1	6	1	3	5	2					M
YYDS062S6	7/22/77	6	9	9	5	1	6	2	2	5	2					M
YYDS062S8	7/22/77	6	9	9	5	1	6	2	2	5	2					M
YYDS062S9	7/22/77	6	9	9	5	1	6	2	2	5	2					M
YYDS062S7	7/22/77	6	9	9	5	1	6	2	2	5	2					M
YYDS063S6	7/22/77	6	9	9	5	1	6	3	4	5	3					M
YYDS063S8	7/22/77	6	9	9	5	1	6	3	4	5	3					M
YYDS063S9	7/22/77	6	9	9	5	1	6	3	4	5	3					M
YYDS063S7	7/22/77	6	9	9	5	1	6	3	4	5	3					M
YYDS064S6	7/22/77	2	5	1	5	2	1	2	4	5	2					25
YYDS064S8	7/22/77	2	5	1	5	2	1	2	4	5	2					25
YYDS064S7	7/22/77	2	5	1	5	2	1	2	4	5	2					25
YYDS064S9	7/22/77	2	5	1	5	2	1	2	4	5	2					25
YYDS065S6	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS065S8	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS065S9	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS065S7	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS066S6	7/22/77	2	6	2	5	2	2	2	4	5	2					23
YYDS066S8	7/22/77	2	6	2	5	2	2	2	4	5	2					23
YYDS066S7	7/22/77	2	6	2	5	2	2	2	4	5	2					23
YYDS066S9	7/22/77	2	6	2	5	2	2	2	4	5	2					23
YYDS067S6	7/22/77	2	4	1	5	2	3	1	3	5	2					25
YYDS067S8	7/22/77	2	4	1	5	2	3	1	3	5	2					25
YYDS067S7	7/22/77	2	4	1	5	2	3	1	3	5	2					25
YYDS067S9	7/22/77	2	4	1	5	2	3	1	3	5	2					25
YYDS068S6	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS068S8	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS068S9	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS068S7	7/22/77	6	9	9	5	1	6	2	4	5	2					M
YYDS069S6	7/23/77	6	9	9	5	1	6	2	3	5	2					M
YYDS069S8	7/23/77	6	9	9	5	1	6	2	3	5	2					M
YYDS069S9	7/23/77	6	9	9	5	1	6	2	3	5	2					M
YYDS069S7	7/23/77	6	9	9	5	1	6	2	3	5	2					M

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 D E N S	R E L I E F	W E A T H E R	C O N T A M I N 1	C O N T A M I N 2	C O N T A M I N 3	T E M P
		6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS070S6	7/23/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS070S8	7/23/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS070S9	7/23/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS070S7	7/23/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS071S6	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS071S8	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS071S9	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS071S7	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS072S6	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS072S8	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS072S9	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS072S7	7/23/77	6	9	9	5	1	6	2	3	5	1	.	.	.	M
YYDS073S6	7/23/77	1	4	2	5	2	1	1	3	5	1	.	.	.	30
YYDS073S8	7/23/77	1	4	2	5	2	1	1	3	5	1	.	.	.	30
YYDS073S9	7/23/77	1	4	2	5	2	1	1	3	5	1	.	.	.	30
YYDS073S7	7/23/77	1	4	2	5	2	1	1	3	5	1	.	.	.	30
YYDS074S6	7/23/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS074S8	7/23/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS074S7	7/23/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS074S9	7/23/77	6	9	9	5	1	6	3	3	5	1	.	.	.	M
YYDS075S6	7/23/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS075S8	7/23/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS075S9	7/23/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS075S7	7/23/77	6	9	9	5	1	6	1	3	5	1	.	.	.	M
YYDS076S6	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS076S8	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS076S9	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS076S7	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS077S6	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS077S8	7/23/77	5	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS077S9	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS077S7	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS078S6	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS078S8	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS078S9	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS078S7	7/23/77	6	9	9	5	1	6	2	4	5	1	.	.	.	M
YYDS079S6	7/23/77	2	4	2	5	2	1	1	4	5	1	.	.	.	23
YYDS079S8	7/23/77	2	4	2	5	2	1	1	4	5	1	.	.	.	23
YYDS079S9	7/23/77	2	4	2	5	2	1	1	4	5	1	.	.	.	23
YYDS079S7	7/23/77	2	4	2	5	2	1	1	4	5	1	.	.	.	23
YYDS080S6	7/24/77	2	5	1	5	3	2	1	3	5	2	.	.	.	22
YYDS080S8	7/24/77	2	5	1	5	3	2	1	3	5	2	.	.	.	22
YYDS080S9	7/24/77	2	5	1	5	3	2	1	3	5	2	.	.	.	22
YYDS080S7	7/24/77	2	5	1	5	3	2	1	3	5	2	.	.	.	22
YYDS081S6	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS081S8	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS081S9	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS081S7	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS082S6	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS082S8	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M

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

SRL I.D.	SAMPDATE	VELOCITY	STRWIDTH	STRDEPTH	RELIEF	STMLEVE	STRCOL	STRBED	VEGDENS	RELIEF	WEATHER	CONTAMN1	CONTAMN2	CONTAMN3	TEMP

YYDS08259	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08257	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08356	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08358	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08359	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08357	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08456	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS08458	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS08459	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS08457	7/24/77	6	9	9	5	1	6	2	4	5	2	.	.	.	M
YYDS08556	7/24/77	6	9	9	5	1	6	2	2	5	2	.	.	.	M
YYDS08558	7/24/77	6	9	9	5	1	6	2	2	5	2	.	.	.	M
YYDS08559	7/24/77	6	9	9	5	1	6	2	2	5	2	.	.	.	M
YYDS08557	7/24/77	6	9	9	5	1	6	2	2	5	2	.	.	.	M
YYDS08656	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08658	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08659	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08657	7/24/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS08756	7/24/77	2	3	1	5	2	2	2	3	5	2	.	.	.	27
YYDS08758	7/24/77	2	3	1	5	2	2	2	3	5	2	.	.	.	27
YYDS08759	7/24/77	2	3	1	5	2	2	2	3	5	2	.	.	.	27
YYDS08757	7/24/77	2	3	1	5	2	2	2	3	5	2	.	.	.	27
YYDS08856	7/24/77	2	5	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08858	7/24/77	2	5	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08859	7/24/77	2	5	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08857	7/24/77	2	5	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08956	7/24/77	2	7	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08958	7/24/77	2	7	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08959	7/24/77	2	7	1	5	2	1	2	4	5	2	.	.	.	25
YYDS08957	7/24/77	2	7	1	5	2	1	2	4	5	2	.	.	.	25
YYDS09056	7/24/77	3	5	2	5	3	1	2	3	5	2	.	.	.	25
YYDS09058	7/24/77	3	5	2	5	3	1	2	3	5	2	.	.	.	25
YYDS09059	7/24/77	3	5	2	5	3	1	2	3	5	2	.	.	.	25
YYDS09057	7/24/77	3	5	2	5	3	1	2	3	5	2	.	.	.	25
YYDS09156	7/25/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS09158	7/25/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS09159	7/25/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS09157	7/25/77	6	9	9	5	1	6	2	3	5	2	.	.	.	M
YYDS09256	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS09258	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS09259	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS09257	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS09356	7/25/77	2	4	3	5	2	1	1	3	5	2	.	.	.	21
YYDS09358	7/25/77	2	4	3	5	2	1	1	3	5	2	.	.	.	21
YYDS09357	7/25/77	2	4	3	5	2	1	1	3	5	2	.	.	.	21
YYDS09359	7/25/77	2	4	3	5	2	1	1	3	5	2	.	.	.	21
YYDS09456	7/25/77	2	6	1	5	2	1	2	3	5	2	.	.	.	26
YYDS09458	7/25/77	2	6	1	5	2	1	2	3	5	2	.	.	.	26
YYDS09459	7/25/77	2	6	1	5	2	1	2	3	5	2	.	.	.	26
YYDS09457	7/25/77	2	6	1	5	2	1	2	3	5	2	.	.	.	26

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

SAMPLE	SRL I.D.	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 D E N S	R E L I E F	W E A T H E R	C O N T A M I N 1	C O N T A M I N 2	C O N T A M I N 3	T E M P
YYDS095S6	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS095S8	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS095S7	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS095S9	7/25/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS096S6	7/25/77	4	5	3	5	4	4	3	4	5	4	.	.	.	25
YYDS096S8	7/25/77	4	5	3	5	4	4	3	4	5	4	.	.	.	25
YYDS096S7	7/25/77	4	5	3	5	4	4	3	4	5	4	.	.	.	25
YYDS096S9	7/25/77	4	5	3	5	4	4	3	4	5	4	.	.	.	25
YYDS097S6	7/25/77	2	4	2	5	2	1	1	4	5	2	.	.	.	23
YYDS097S8	7/25/77	2	4	2	5	2	1	1	4	5	2	.	.	.	23
YYDS097S7	7/25/77	2	4	2	5	2	1	1	4	5	2	.	.	.	23
YYDS097S9	7/25/77	2	4	2	5	2	1	1	4	5	2	.	.	.	23
YYDS098S6	7/25/77	2	6	2	5	3	3	2	4	5	2	.	.	.	22
YYDS098S8	7/25/77	2	6	2	5	3	3	2	4	5	2	.	.	.	22
YYDS098S7	7/25/77	2	6	2	5	3	3	2	4	5	2	.	.	.	22
YYDS098S9	7/25/77	2	6	2	5	3	3	2	4	5	2	.	.	.	22
YYDS099S6	7/25/77	2	6	2	5	2	2	2	4	5	2	.	.	.	22
YYDS099S8	7/25/77	2	6	2	5	2	2	2	4	5	2	.	.	.	22
YYDS099S7	7/25/77	2	6	2	5	2	2	2	4	5	2	.	.	.	22
YYDS099S9	7/25/77	2	6	2	5	2	2	2	4	5	2	.	.	.	22
YYDS100S6	8/ 3/77	3	5	2	5	3	2	2	3	5	2	.	.	.	23
YYDS100S8	8/ 3/77	3	5	2	5	3	2	2	3	5	2	.	.	.	23
YYDS100S9	8/ 3/77	3	5	2	5	3	2	2	3	5	2	.	.	.	23
YYDS100S7	8/ 3/77	3	5	2	5	3	2	2	3	5	2	.	.	.	23
YYDS101S6	8/ 3/77	2	3	1	5	2	3	1	3	5	2	.	.	.	26
YYDS101S8	8/ 3/77	2	3	1	5	2	3	1	3	5	2	.	.	.	26
YYDS101S9	8/ 3/77	2	3	1	5	2	3	1	3	5	2	.	.	.	26
YYDS101S7	8/ 3/77	2	3	1	5	2	3	1	3	5	2	.	.	.	26
YYDS102S6	8/ 3/77	3	4	2	5	2	3	1	3	5	2	.	.	.	24
YYDS102S8	8/ 3/77	3	4	2	5	2	3	1	3	5	2	.	.	.	24
YYDS102S9	8/ 3/77	3	4	2	5	2	3	1	3	5	2	.	.	.	24
YYDS102S7	8/ 3/77	3	4	2	5	2	3	1	3	5	2	.	.	.	24
YYDS103S6	8/ 3/77	5	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS103S8	8/ 3/77	5	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS103S9	8/ 3/77	5	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS103S7	8/ 3/77	6	9	9	5	1	6	1	3	5	2	.	.	.	M
YYDS104S6	8/ 3/77	1	1	.	5	2	2	1	4	5	2	.	.	.	25
YYDS104S8	8/ 3/77	1	1	.	5	2	2	1	4	5	2	.	.	.	25
YYDS104S7	8/ 3/77	1	1	.	5	2	2	1	4	5	2	.	.	.	25
YYDS104S9	8/ 3/77	1	1	1	5	2	2	1	4	5	2	.	.	.	25
YYDS105S6	8/ 3/77	1	2	1	5	2	3	2	4	5	2	.	.	.	26
YYDS105S8	8/ 3/77	1	2	1	5	2	3	2	4	5	2	.	.	.	26
YYDS105S7	8/ 3/77	1	2	1	5	2	3	2	4	5	2	.	.	.	26
YYDS105S9	8/ 3/77	1	2	1	5	2	3	2	4	5	2	.	.	.	26
YYDS106S6	8/ 3/77	6	9	9	5	1	6	3	3	5	2	.	.	.	M
YYDS106S8	8/ 3/77	6	9	9	5	1	6	3	3	5	2	.	.	.	M
YYDS106S9	8/ 3/77	6	9	9	5	1	6	3	3	5	2	.	.	.	M
YYDS106S7	8/ 3/77	6	9	9	5	1	6	3	3	5	2	.	.	.	M
YYDS107S6	8/ 3/77	1	4	2	5	2	3	1	3	5	2	.	.	.	24
YYDS107S8	8/ 3/77	1	4	2	5	2	3	1	3	5	2	.	.	.	24

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

***** ***** ***** SRL I.D. ***** ***** ***** ***** ***** YYDS10757 YYDS10759	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 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
		1	4	2	5	2	3	1	3	5	2	.	.	.	24
	8/ 3/77	1	4	2	5	2	3	1	3	5	2	.	.	.	24

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

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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
YYDS020R	0.7	0.0	6.1	0.1	7.6	170	29.20	M	M	M	M	M	M	M	M	M	M	M
YYDS021R	1.4	0.0	2.6	0.1	7.5	170	30.20	M	M	M	M	M	M	M	M	M	M	M
YYDS022R	1.1	0.0	1.8	0.1	6.0	170	37.30	M	M	M	M	M	M	M	M	M	M	M
YYDS024R	0.7	0.0	3.4	0.1	6.1	167	26.20	M	M	M	M	M	M	M	M	M	M	M
YYDS026R	0.4	0.0	4.6	0.2	5.7	132	28.25	M	M	M	M	M	M	M	M	M	M	M
YYDS029R	0.1	0.0	4.6	0.0	6.6	31	3.20	M	M	M	M	M	M	M	M	M	M	M
YYDS036R	0.1	0.3	2.3	0.1	7.5	320	44.20	M	M	M	M	M	M	M	M	M	M	M
YYDS037R	0.4	0.0	2.8	0.0	8.1	236	32.20	M	M	M	M	M	M	M	M	M	M	M
YYDS038R	0.9	0.0	2.0	0.2	7.7	290	43.20	M	M	M	M	M	M	M	M	M	M	M
YYDS039R	0.0	0.0	4.9	0.0	6.3	48	4.20	M	M	M	M	M	M	M	M	M	M	M
YYDS040R	0.4	0.0	15.5	0.0	7.9	285	40.20	M	M	M	M	M	M	M	M	M	M	M
YYDS041R	1.8	0.0	3.7	0.1	7.9	292	39.20	M	M	M	M	M	M	M	M	M	M	M
YYDS047R	2.4	0.0	2.8	0.1	7.7	188	21.20	M	M	M	M	M	M	M	M	M	M	M
YYDS048R	1.5	0.0	1.5	0.1	8.4	225	12.10	M	M	M	M	M	M	M	M	M	M	M
YYDS049R	1.0	0.0	2.0	0.1	8.5	300	20.10	M	M	M	M	M	M	M	M	M	M	M
YYDS064R	0.2	0.0	5.5	0.2	7.1	110	6.10	M	M	M	M	M	M	M	M	M	M	M
YYDS066R	0.7	0.8	0.5	0.1	7.7	77	5.10	M	M	M	M	M	M	M	M	M	M	M
YYDS067R	0.3	0.0	1.5	0.7	7.4	245	19.10	M	M	M	M	M	M	M	M	M	M	M
YYDS073R	0.2	0.0	4.9	0.0	7.2	292	37.20	M	M	M	M	M	M	M	M	M	M	M
YYDS079R	0.1	0.6	0.0	0.2	3.3	723	0.99	M	M	M	M	M	M	M	M	M	M	M
YYDS080R	0.1	0.0	10.2	0.1	7.3	275	26.10	M	M	M	M	M	M	M	M	M	M	M
YYDS087R	0.2	0.0	10.9	0.1	7.9	77	8.20	M	M	M	M	M	M	M	M	M	M	M
YYDS088R	0.2	0.0	3.1	0.2	7.8	28	1.20	M	M	M	M	M	M	M	M	M	M	M
YYDS089R	0.9	0.0	27.9	0.0	4.3	100	0.50	M	M	M	M	M	M	M	M	M	M	M
YYDS090R	0.8	1.0	0.0	0.0	3.9	700	0.99	M	M	M	M	M	M	M	M	M	M	M
YYDS093R	0.2	0.0	6.7	0.0	6.7	218	26.20	M	M	M	M	M	M	M	M	M	M	M
YYDS094R	0.2	0.0	78.7	0.2	6.8	230	3.20	M	M	M	M	M	M	M	M	M	M	M
YYDS096R	1.3	0.2	8.0	0.0	4.5	55	0.50	M	M	M	M	M	M	M	M	M	M	M
YYDS097R	0.1	0.0	34.9	0.0	5.1	90	2.50	M	M	M	M	M	M	M	M	M	M	M
YYDS098R	0.6	0.0	2.0	0.0	6.5	50	8.30	M	M	M	M	M	M	M	M	M	M	M
YYDS099R	0.7	0.0	1.3	0.0	6.8	48	11.40	M	M	M	M	M	M	M	M	M	M	M
YYDS100R	0.6	0.0	11.7	0.2	7.3	165	19.20	M	M	M	M	M	M	M	M	M	M	M
YYDS101R	0.6	0.2	6.7	0.1	7.5	152	15.20	M	M	M	M	M	M	M	M	M	M	M
YYDS102R	1.0	0.0	11.7	0.1	7.9	205	30.25	M	M	M	M	M	M	M	M	M	M	M
YYDS104R	0.1	0.0	2.6	0.0	8.0	95	11.20	M	M	M	M	M	M	M	M	M	M	M
YYDS105R	0.2	0.0	0.5	0.0	7.9	44	3.20	M	M	M	M	M	M	M	M	M	M	M