MGG09005068

LABORATORY ITEM 507

A SUMMARY OF SEDIMENT SIZE AND CHEMISTRY OF 71 GRAB SAMPLES FROM MAYPORT, FLORIDA. TUGBOAT 6. FEBRUARY 1977.

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The results of the sediment size and composition analyses are printed out in tabular form.

The following is an explanation of the terms encountered on the data printout sheet:

CRUISE	A number assigned to each cruise for identification purposes.
SAMPLE	A consecutive number applied to each core taken successively throughout the cruise.
LATITUDE	Expressed in degrees, minutes, and tenths of minutes.
LONGITUDE	Expressed in degrees, minutes and tenths of minutes.
TAKEN	Date in day, month, and year that core was taken.
CORER TYPE	Letters corresponding to sampling device code below.

Corers		Grabs	
HYP	Hydroplastic piston	SPK	Shipek Sediment Sampler
HYG	Hydroplastic gravity	HLP	Alpine Heavy Duty Grab
KUP	Kullenberg piston	SMS	Small Mud Snapper
KUG	Kullenberg gravity	VVS	Van Veen Grab
PHL	Phlegar gravity	BED	Birge-Ekman Dredge
MEG	Modified Ewing gravity	DLS	Dietz-LaFond Snapper
MEP	Modified Ewing piston	OPG	Orange Peel Grab
VIB	Vibrocorer	SBS	Scoopfish Bottom Sampler
BOM	Boomerang	DOC	Diver Operated Corer
EWP	Ewing piston		
EWG	Ewing gravity		

LENGTH	Length of core recorded in centimeters as observed in the laboratory.
PENETRATION	Penetration of coring device recorded in centimeters as observed in the field.
DEPTH	The uncorrected sonic sounding in meters.
ANALYZED	Date in day, month, and year that core was analyzed in the laboratory.
I.D. No.	Three or four digit laboratory project number followed by consecutive number assigned to each subsample analyzed.
INTERVAL	Interval of subsample as measured in centimeters from the top of the core.
MM	Particle diameter size intervals based on Wentworth size grades in millimeters.
PER	Percent of total sample weight within the given size interval.

GRAVEL, SAND SILT, CLAY — Percent of the total sample weight within the four size classes.

Class ranges are:

1. Gravel - coarser than 2 mm
2. Sand - 2 to 0.0625 mm
3. Silt - 0.0625 to 0.0039 mm
4. Clay - finer than 0.0039

MEAN (MM) — The geometric mean of the distribution expressed in millimeters.

MEAN (PHI) — The logarithmic mean of the distribution expressed in phi units ($-\log_2$) of the diameter in millimeters.

STAN DEV — Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$s = \sqrt{\frac{\sum f \quad (X_i - \bar{X})^2}{100}}$$

SKEWNESS — A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles; negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\text{Skewness} = \frac{2 \sum f \quad (X_i - X)^3}{100 \quad s^3}$$

KURTOSIS — A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. When using the following formula, a normal curve has a kurtosis of 0.

$$\text{Kurtosis} = \left[\frac{\sum f \quad (X_i - \bar{X})^4}{100 \quad s^4} \right] - 3$$

$CACO_3$ — Percent of the total sample weight soluble in 2 N HCL.

ORG CARBON — Percent organic carbon of the total sample weight as determined using a Leco carbon analyzer.

COLOR — Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.

NITROGEN — Percent nitrogen of the total sample weight as determined by the Kjeldahl method.

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 1-A-2 Lat: 30°21.2' N Long: 81°18.0' W Date: Water depth:		olivegray 5Y4/2	Yes	silty sand	Small amount of shell fragments.
Sample No: 1-B-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	silty sand	Small amount of shell fragments.
Sample No: 1-C-2 Lat: Long: Date: Water depth:		very dark grayish brown 2.5 Y3/2	No	silty sand	Shell fragments.
Sample No: 1-D-2 Lat: Long: Date: Water depth:		dark grayish brown 2.5Y4/2	Yes	silty sand	Shell fragments.
Sample No: 1-E-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	silt	
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

MGG09005068

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 2-A-2 Lat: 30°21.4' N Long: 81°18.0' W Date: Water depth:		olive gray 5Y5/2	Yes	silty sand	Rock fragments.
Sample No: 2-B-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Rock fragments, shell fragments.
Sample No: 2-C-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments
Sample No: 2-D-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments
Sample No: 2-E-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments, rock fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

MGG0900568

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 3-A-2 Lat: 30°21.1' N Long: 81°17.6' W Date: Water depth:		very dark grayish brown 2.5Y3/2	Yes	sand	Shell fragments
Sample No: 3-B-2 Lat: Long: Date: Water depth:		light olive gray 5Y6/2	Yes	sand	Shell fragments.
Sample No: 3-C-2 Lat: Long: Date: Water depth:		olive 5Y5/3	Yes	sand	Shell fragments
Sample No: 3-D-2 Lat: Long: Date: Water depth:		dark olive 5Y3/2	Yes	silty sand	Rock fragments, strong H_2S odor.
Sample No: 3-E-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

MCG0900508

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 4-A-2 Lat: 30°20.8' N Long: 81°17.9' W Date: Water depth:		olive 5Y4/3	Yes	silty sand	Shell fragments
Sample No: 4-B-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Small amount of shell fragments.
Sample No: 4-C-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments
Sample No: 4-D-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	Yes	silty sand	Small amount of shell fragments
Sample No: 4-E-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 87

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 5-A-2 Lat: 30°21.2' N Long: 81°18.3' W Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments
Sample No: 5-B-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	Yes	sand	Small amount of shell fragments.
Sample No: 5-C-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Small amount of shell fragments.
Sample No: 5-D-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Small amount of shell fragments.
Sample No: 5-E-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

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Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sedimont Type	Remarks
Sample No: 6-A-2 Lat: 30°21.7' N Long: 81°18.6' W Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 6-B-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments.
Sample No: 6-C-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 6-D-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	No	silty sand	
Sample No: 6-E-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

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Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 7-A-2 Lat: 30°21.6' N Long: 81°17.4' W Date: Water depth:		olive gray 5Y4/2	Yes	sand	Abundant shell fragments.
Sample No: 7-B-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Abundant shell fragments.
Sample No: 7-C-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Abundant shell fragments.
Sample No: 7-D-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Abundant shell fragments.
Sample No: 7-E-2 Lat: Long: Date: Water depth:		olive 5Y4/4	Yes	sand	Abundant shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 8-A-2 Lat: 30°20.6' N Long: 81°17.5' W Date: Water depth:		olive gray 5Y4/2	Yes	silty sand	Small amount of shell fragments.
Sample No: 8-B-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 8-C-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 8-D-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 8-E-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

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Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged ~~21 Mar., 77~~

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 9-A-2 Lat: 30°20.7' N Long: 81°18.6' W Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 9-B-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 9-C-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	Yes	sand	Shell fragments.
Sample No: 9-D-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments
Sample No: 9-E-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Small amount of shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar.,77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 10-A-2 Lat: 30°21.1' N Long: 81°18.9' W Date: Water depth:		olive 5Y4/4	Yes	sand	Shell fragments.
Sample No: 10-B-2 Lat: Long: Date: Water depth:		olive 5Y5/4	Yes	sand	Small amount of shell fragments.
Sample No: 10-C-2 Lat: Long: Date: Water depth:		light olive gray 5Y6/2	Yes	sand	Shell fragments.
Sample No: 10-D-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 10-E-2 Lat: Long: Date: Water depth:		olive 5Y4/4	Yes	sand	Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 11-A-2 Lat: 30°21.9' N Long: 81°17.8' W Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 11-B-2 Lat: Long: Date: Water depth:		olive 5Y5/4	Yes	sand	Shell fragments.
Sample No: 11-C-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 11-D-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell Fragments.
Sample No: 11-E-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

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Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 12-A-2 Lat: 30°21.1' N Long: 81°17.2' W Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 12-B-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: 12-C-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	Yes	silty sand	Shell fragments.
Sample No: 12-D-2 Lat: Long: Date: Water depth:		olive 5Y4/4	Yes	sand	Shell fragments.
Sample No: 12-E-2 Lat: Long: Date: Water depth:		olive 5Y4/3	Yes	sand	Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: 13-A-2 Lat: 30°20.2' N Long: 81°18.2' W Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 13-B-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	Yes	sand	Shell fragments.
Sample No: 13-C-2 Lat: Long: Date: Water depth:		olive gray 5Y5/2	No	sand	
Sample No: 13-D-2 Lat: Long: Date: Water depth:		dark gray 5Y4/1	Yes	sand	Shell fragments.
Sample No: 13-E-2 Lat: Long: Date: Water depth:		olive gray 5Y4/2	No	sand	
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

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Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: C-1-A-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	clayey silt	fishlike odor.
Sample No: C-2-A-2 Lat: Long: Date: Water depth:		olive gray	Yes	sand	Large amount of shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR GRAB SAMPLES

Project No: 507
Location: Mayport Disposal Site

Logged By L.M.Reynolds
Date Logged 21 Mar., 77

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: T-1-A-2 Lat: 30°23.7' N Long: 81°24.5' W Date: Water depth:		dark olive gray 5Y3/2	Yes	silty clayey gravel	Large rock and shell fragments.
Sample No: T-2-A-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	clay	Oily odor.
Sample No: T-3-A-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	clay	Oily odor.
Sample No: T-4-A-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	clay	
Sample No: T-5-A-2 Lat: Long: Date: Water depth:		dark olive gray 5Y3/2	No	clay	
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30°21.2 N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 1 DEPTH 13.3 LONGITUDE 81° 18.0W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 11 1-A-2 PERCENT	507 12 1-B-2 PERCENT	507 13 1-C-2 PERCENT	507 14 1-D-2 PERCENT	507 15 1-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.127
-2 TO -1	4.000 TO 2.000	.160	.354	.624	.267	.000
-1 TO 0	2.000 TO 1.000	.479	.734	.936	.267	.042
0 TO 1	1.000 TO .500	3.969	5.162	5.269	1.734	.339
1 TO 2	.500 TO .250	16.773	18.573	13.969	11.923	1.312
2 TO 3	.250 TO .125	62.226	55.466	43.120	67.431	16.003
3 TO 4	.125 TO .063	9.813	12.829	11.750	13.444	24.344
4 TO 5	.063 TO .031	.977	.658	2.149	1.147	5.292
5 TO 6	.031 TO .016	.758	.354	1.386	.320	4.234
6 TO 7	.016 TO .008	.878	.962	2.704	.694	5.377
7 TO 8	.008 TO .004	.618	.911	2.184	.373	4.657
8 TO 9	.004 TO .002	.179	.202	2.496	2.401	4.742
9 TO 10	.002 TO .001	.120	.000	1.005	.000	4.572
>10	<.001	3.051	3.796	12.409	.000	28.959
	GRAVEL (>2.0 MM)	.160	.354	.624	.267	.127
	SAND (2.0-.063 MM)	93.259	92.763	75.043	94.799	42.041
	SILT (.063-.004 MM)	3.231	2.885	8.423	2.534	19.560
	CLAY (<.004 MM)	3.351	3.998	15.910	2.401	38.273
	MEAN (MM)	.1537	.1511	.0701	.1555	.0125
	MEAN (PHI)	2.702	2.727	3.834	2.685	6.318
	STANDARD DEVIATION	1.712	1.880	3.065	1.224	3.290
	SKEWNESS	1.558	1.390	.631	1.382	.076
	KURTOSIS	11.600	9.128	.320	11.707	-1.602
	CALCIUM CARBONATE	9.300	12.000	14.900	9.100	14.400
	NITROGEN (KJELDAHL)	.017	.025	.052	.015	.100
	COLOR (GSA)	5Y4/2	5Y4/2	2.5Y3/2	2.5Y4/2	5Y3/2

MGG 0 9 0 0

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30°21.4'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 2 DEPTH 14.6 LONGITUDE 81°18.0'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 21 2-A-2 PERCENT	507 22 2-B-2 PERCENT	507 23 2-C-2 PERCENT	507 24 2-D-2 PERCENT	507 25 2-E-2 PERCENT
SUBSAMPLE ID.						
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.913	1.153	.000	.000
-3 TO -2	8.000 TO 4.000	2.492	1.693	1.744	1.435	2.792
-2 TO -1	4.000 TO 2.000	9.768	.779	2.146	2.084	2.118
-1 TO 0	2.000 TO 1.000	5.658	2.230	3.138	4.441	4.213
0 TO 1	1.000 TO .500	3.739	12.037	19.984	23.300	21.401
1 TO 2	.500 TO .250	8.319	39.468	43.830	39.050	34.473
2 TO 3	.250 TO .125	29.202	35.653	23.015	25.589	28.069
3 TO 4	.125 TO .063	5.770	4.836	3.689	2.938	5.392
4 TO 5	.063 TO .031	2.021	.376	.510	1.162	.361
5 TO 6	.031 TO .016	4.513	.215	.000	.000	.000
6 TO 7	.016 TO .008	15.258	.269	.000	.000	.000
7 TO 8	.008 TO .004	6.467	.269	.054	.000	.144
8 TO 9	.004 TO .002	1.549	.269	.536	.000	.120
9 TO 10	.002 TO .001	.404	.000	.000	.000	.144
>10	<.001	3.840	.994	.000	.000	.770
GRAVEL (>2.0 MM)		12.260	3.385	5.043	3.519	4.911
SAND (2.0-.063 MM)		53.688	94.224	93.857	95.319	93.548
SILT (.063-.004 MM)		28.259	1.128	.563	1.162	.506
CLAY (<.004 MM)		5.793	1.263	.536	.000	1.035
MEAN (MM)		.1042	.2853	.3764	.3769	.3478
MEAN (PHI)		3.263	1.809	1.410	1.408	1.524
STANDARD DEVIATION		3.189	1.550	1.338	1.139	1.541
SKEWNESS		.134	.681	.097	.305	.657
KURTOSIS		.545	11.263	5.942	1.499	9.747
CALCIUM CARBONATE		63.400	11.800	14.200	17.800	14.700
NITROGEN (KJELDAHL)		.023	.012	.010	.010	.010
COLOR (GSA)		5Y5/2	5Y4/2	5Y4/2	5Y4/2	5Y4/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 21.1'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 3 DEPTH 152 LONGITUDE 81° 17.6'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	SUBSAMPLE ID. DIAM (MM)	507 31 3-A-1 PERCENT	507 32 3-B-2 PERCENT	507 33 3-C-2 PERCENT	507 34 3-D-2 PERCENT	507 35 3-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	1.139	.000	.948	.803	.605
-2 TO -1	4.000 TO 2.000	.982	.304	1.317	.334	1.120
-1 TO 0	2.000 TO 1.000	2.592	.911	2.519	.936	3.178
0 TO 1	1.000 TO .500	17.252	9.201	5.107	5.184	19.370
1 TO 2	.500 TO .250	40.259	35.591	24.243	15.050	40.557
2 TO 3	.250 TO .125	27.946	46.766	45.597	45.251	25.908
3 TO 4	.125 TO .063	6.343	6.681	9.337	19.097	7.143
4 TO 5	.063 TO .031	.393	.304	1.225	1.973	.636
5 TO 6	.031 TO .016	.550	.000	2.727	1.538	.151
6 TO 7	.016 TO .008	.530	.000	4.345	1.873	.121
7 TO 8	.008 TO .004	.118	.000	1.456	1.940	.303
8 TO 9	.004 TO .002	.118	.243	.046	.000	.908
9 TO 10	.002 TO .001	.000	.000	.023	.602	.000
>10	<.001	1.767	.000	1.109	5.418	.000
	GRAVEL (>2.0 MM)	2.121	.304	2.265	1.137	1.725
	SAND (2.0-.063 MM)	94.403	99.150	86.804	85.518	96.156
	SILT (.063-.004 MM)	1.591	.304	9.753	7.324	1.211
	CLAY (<.004 MM)	1.885	.243	1.179	6.020	.908
	MEAN (MM)	.2790	.2486	.1744	.1176	.3078
	MEAN (PHI)	1.842	2.008	2.519	3.088	1.700
	STANDARD DEVIATION	1.659	.883	1.818	2.303	1.300
	SKEWNESS	1.229	.256	.652	.924	.652
	KURTOSIS	12.020	7.071	4.422	4.046	7.255
	CALCIUM CARBONATE	8.900	9.300	22.200	17.600	9.900
	NITROGEN (KJELDAHL)	.021	.011	.020	.052	.014
	COLOR (GSA)	2.5Y3/2	5Y6/2	5Y5/3	5Y3/2	5Y5/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30°20.8'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 4 DEPTH 14.6 LONGITUDE 81°17.9'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 41 4-A-2 PERCENT	507 42 4-B-2 PERCENT	507 43 4-C-2 PERCENT	507 44 4-D-2 PERCENT	507 45 4-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.090	.090	.130	.079	.327
-1 TO 0	2.000 TO 1.000	.314	.361	.216	.238	.720
0 TO 1	1.000 TO .500	1.482	4.065	1.729	1.192	5.008
1 TO 2	.500 TO .250	13.561	19.151	16.422	9.221	28.576
2 TO 3	.250 TO .125	67.036	64.137	62.446	57.671	56.268
3 TO 4	.125 TO .063	14.773	10.614	16.292	18.243	7.430
4 TO 5	.063 TO .031	.629	1.084	1.815	1.709	.753
5 TO 6	.031 TO .016	.259	.000	.000	1.471	.000
6 TO 7	.016 TO .008	.180	.000	.000	.994	.000
7 TO 8	.008 TO .004	.180	.000	.000	1.113	.000
8 TO 9	.004 TO .002	1.437	.497	.951	.477	.917
9 TO 10	.002 TO .001	.000	.000	.000	.676	.000
>10	<.001	.000	.000	.000	6.916	.000
	GRAVEL (>2.0 MM)	.090	.090	.130	.079	.327
	SAND (2.0-.063 MM)	97.216	98.329	97.105	86.565	98.003
	SILT (.063-.004 MM)	1.257	1.084	1.815	5.286	.753
	CLAY (<.004 MM)	1.437	.497	.951	8.068	.917
	MEAN (MM)	.1658	.1934	.1713	.0975	.2141
	MEAN (PHI)	2.593	2.370	2.546	3.359	2.224
	STANDARD DEVIATION	1.008	.844	.922	2.277	.980
	SKEWNESS	1.479	.726	1.151	1.152	.977
	KURTOSIS	16.677	13.668	15.555	4.458	14.438
	CALCIUM CARBONATE	7.800	6.700	7.700	10.900	8.400
	NITROGEN (KJELDAHL)	.016	.009	.012	.053	.011
	COLOR (GSA)	5Y4/3	5Y5/2	5Y5/2	5Y3/2	5Y5/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE
SAMPLE 5

TAKEN 0 0
DEPTH 14.6

LATITUDE 30°21.2'N
LONGITUDE 81°18.3'W

MARSDEN SQUARE 117
CORER TYPE SPK

LENGTH .0
PENETRATION .0

ANALYZED 0 0

DIAM (PHI)	DIAM (MM)	507 51 5-A-2 PERCENT	507 52 5-B-2 PERCENT	507 53 5-C-2 PERCENT	507 54 5-D-2 PERCENT	507 55 5-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.934	.286	.574	.000	.199
-2 TO -1	4.000 TO 2.000	.383	.514	.530	.947	.718
-1 TO 0	2.000 TO 1.000	.790	1.143	1.103	1.755	1.316
0 TO 1	1.000 TO .500	4.575	15.057	13.063	9.908	8.692
1 TO 2	.500 TO .250	24.814	36.114	40.203	36.767	37.759
2 TO 3	.250 TO .125	57.964	36.457	38.526	45.012	45.295
3 TO 4	.125 TO .063	7.904	6.114	3.972	3.995	4.306
4 TO 5	.063 TO .031	2.635	.714	2.030	1.617	1.715
5 TO 6	.031 TO .016	.000	.571	.000	.000	.000
6 TO 7	.016 TO .008	.000	.971	.000	.000	.000
7 TO 8	.008 TO .004	.000	.229	.000	.000	.000
8 TO 9	.004 TO .002	.000	.114	.000	.000	.000
9 TO 10	.002 TO .001	.000	.171	.000	.000	.000
>10	<.001	.000	1.543	.000	.000	.000
	GRAVEL (>2.0 MM)	1.317	.800	1.103	.947	.917
	SAND (2.0-.063 MM)	96.048	94.886	96.867	97.436	97.368
	SILT (.063-.004 MM)	2.635	2.486	2.030	1.617	1.715
	CLAY (<.004 MM)	.000	1.829	.000	.000	.000
	MEAN (MM)	.2167	.2409	.2805	.2650	.2592
	MEAN (PHI)	2.206	2.054	1.834	1.916	1.948
	STANDARD DEVIATION	.946	1.577	.964	.915	.903
	SKEWNESS	.671	1.373	.249	.265	.298
	KURTOSIS	5.900	12.578	2.593	1.742	2.545
	CALCIUM CARBONATE	8.600	12.200	10.400	8.300	10.500
	NITROGEN (KJELDAHL)	.012	.020	.014	.006	.009
	COLOR (GSA)	5Y4/3	5Y3/2	5Y4/3	5Y4/3	5Y5/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30°21.7'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 6 DEPTH 15.6 LONGITUDE 81° 18.6'W CORER, TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 61 6-A-2 PERCENT	507 62 6-B-2 PERCENT	507 63 6-C-2 PERCENT	507 64 6-D-2 PERCENT	507 65 6-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.508	.303
-3 TO -2	8.000 TO 4.000	.000	2.454	1.381	.649	.657
-2 TO -1	4.000 TO 2.000	.598	.620	1.021	.451	.707
-1 TO 0	2.000 TO 1.000	1.085	1.699	1.471	.338	1.061
0 TO 1	1.000 TO .500	11.198	24.703	23.784	7.473	16.366
1 TO 2	.500 TO .250	32.793	44.822	45.646	32.149	36.942
2 TO 3	.250 TO .125	45.911	21.440	22.853	40.666	36.858
3 TO 4	.125 TO .063	5.741	2.994	2.673	8.150	5.119
4 TO 5	.063 TO .031	.283	.297	.571	.874	.253
5 TO 6	.031 TO .016	.142	.081	.000	.338	.168
6 TO 7	.016 TO .008	.157	.216	.000	1.410	.135
7 TO 8	.008 TO .004	.110	.000	.000	.677	.118
8 TO 9	.004 TO .002	1.982	.674	.601	1.410	.067
9 TO 10	.002 TO .001	.000	.000	.000	.338	.000
>10	<.001	.000	.000	.000	4.569	1.246
	GRAVEL (>2.0 MM)	.598	3.074	2.402	1.507	1.667
	SAND (2.0-.063 MM)	96.729	95.658	96.425	88.776	96.346
	SILT (.063-.004 MM)	.692	.593	.571	3.299	.674
	CLAY (<.004 MM)	1.982	.674	.601	6.317	1.313
	MEAN (MM)	.2349	.3669	.3565	.1637	.2739
	MEAN (PHI)	2.090	1.447	1.488	2.611	1.868
	STANDARD DEVIATION	1.284	1.232	1.136	2.279	1.434
	SKEWNESS	1.143	.345	.405	1.041	1.209
	KURTOSIS	10.899	8.372	9.267	5.305	15.884
	CALCIUM CARBONATE	9.700	8.700	10.300	10.800	8.200
	NITROGEN (KJELDAHL)	.017	.009	.011	.060	.013
	COLOR (GSA)	5Y4/3	5Y5/2	5Y4/3	5Y4/2	5Y4/3

MGG 00 0 5 0 0 8

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 21.6'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 7 DEPTH 17.4 LONGITUDE 81° 17.4'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 71 7-A-2 PERCENT	507 72 7-B-2 PERCENT	507 73 7-C-2 PERCENT	507 74 7-D-2 PERCENT	507 75 7-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	2.118	2.630	3.879	.000	2.630
-3 TO -2	8.000 TO 4.000	5.518	3.020	3.485	3.553	3.471
-2 TO -1	4.000 TO 2.000	8.452	6.332	4.216	7.180	10.069
-1 TO 0	2.000 TO 1.000	21.139	15.027	12.001	22.625	19.728
0 TO 1	1.000 TO .500	34.525	31.442	31.169	31.189	32.543
1 TO 2	.500 TO .250	20.031	24.452	26.841	22.589	18.456
2 TO 3	.250 TO .125	5.906	12.786	13.687	9.237	10.220
3 TO 4	.125 TO .063	.991	2.241	2.754	1.608	1.251
4 TO 5	.063 TO .031	1.321	2.070	1.967	2.019	1.531
5 TO 6	.031 TO .016	.000	.000	.000	.000	.000
6 TO 7	.016 TO .008	.000	.000	.000	.000	.000
7 TO 8	.008 TO .004	.000	.000	.000	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	16.087	11.982	11.580	10.733	16.171
	SAND (2.0-.063 MM)	82.592	85.947	86.453	87.248	82.298
	SILT (.063-.004 MM)	1.321	2.070	1.967	2.019	1.531
	CLAY (<.004 MM)	.000	.000	.000	.000	.000
	MEAN (MM)	.8291	.6252	.5990	.6768	.7686
	MEAN (PHI)	.270	.678	.739	.563	.380
	STANDARD DEVIATION	1.438	1.534	1.595	1.376	1.507
	SKEWNESS	.086	.169	.290	.110	.071
	KURTOSIS	.657	.641	.808	.417	.431
	CALCIUM CARBONATE	22.100	24.700	13.600	18.400	23.900
	NITROGEN (KJELDAHL)	.016	.017	.017	.017	.019
	COLOR (GSA)	5Y4/2	5Y4/3	5Y4/3	5Y4/2	5Y4/4

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 20.6'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 8 DEPTH 162 LONGITUDE 81° 17.5'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	SUBSAMPLE ID. DIAM (MM)	507 81 8-A-2 PERCENT	507 82 8-B-2 PERCENT	507 83 8-C-2 PERCENT	507 84 8-D-2 PERCENT	507 85 8-E-2 PERCENT
<64	>:67090	.000	.000	.000	.000	. 0
-: 0 -9	1<.606 TO 8.000	.000	.000	.000	.000	. 0
-3 TO -2	8.000 TO 4.000	.000	.369	.000	.583	.000
-2 TO -1	4.000 TO 2.000	.245	.843	.760	.146	.448
-1 TO 0	2.000 TO 1.000	.368	1.318	.977	.291	.560
0 TO 1	1.000 TO .500	1.816	11.360	7.867	1.748	5.300
1 TO 2	.500 TO .250	7.090	35.635	26.737	17.220	24.487
2 TO 3	.250 TO .125	60.059	42.884	50.398	62.150	55.804
3 TO 4	.125 TO .063	24.117	6.695	11.903	16.142	11.982
4 TO 5	.063 TO .031	1.472	.290	.760	.787	.747
5 TO 6	.031 TO .016	.294	.000	.000	.000	.000
6 TO 7	.016 TO .008	.589	.000	.000	.000	.000
7 TO 8	.008 TO .004	.589	.000	.000	.000	.000
8 TO 9	.004 TO .002	.221	.606	.579	.932	.672
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	3.140	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	.245	1.212	.760	.723	.448
	SAND (2.0-.063 MM)	93.449	97.891	97.902	97.552	98.134
	SILT (.063-.004 MM)	2.944	.290	.760	.787	.747
	CLAY (<.004 MM)	3.361	.606	.579	.932	.672
	MEAN (MM)	.1277	.2617	.2200	.1790	.2046
	MEAN (PHI)	2.969	1.934	2.184	2.482	2.289
	STANDARD DEVIATION	1.629	1.064	1.025	.983	.962
	SKEWNESS	1.596	.366	.376	.568	.627
	KURTOSIS	12.518	8.997	8.231	15.393	11.378
	CALCIUM CARBONATE	11.300	8.500	9.200	8.100	9.400
	NITROGEN (KJELDAHL)	.044	.020	.014	.012	.015
	COLOR (GSA)	5Y4/2	5Y4/2	5Y4/2	5Y4/2	5Y4/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 20.7'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 9 DEPTH 14.0 LONGITUDE 81° 18.6'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 91 9-A-2 PERCENT	507 92 9-B-2 PERCENT	507 93 9-C-2 PERCENT	507 94 9-D-2 PERCENT	507 95 9-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.206	.158	.000	.153	.194
-2 TO -1	4.000 TO 2.000	.925	.384	.644	.556	1.384
-1 TO 0	2.000 TO 1.000	1.357	1.196	1.417	.978	2.269
0 TO 1	1.000 TO .500	11.351	13.854	10.734	6.980	14.970
1 TO 2	.500 TO .250	55.151	56.069	54.401	49.875	55.064
2 TO 3	.250 TO .125	28.110	26.670	30.185	38.792	24.405
3 TO 4	.125 TO .063	1.830	.699	1.589	1.323	.636
4 TO 5	.063 TO .031	1.069	.970	1.030	1.342	1.079
5 TO 6	.031 TO .016	.000	.000	.000	.000	.000
6 TO 7	.016 TO .008	.000	.000	.000	.000	.000
7 TO 8	.008 TO .004	.000	.000	.000	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	1.131	.542	.644	.709	1.577
	SAND (2.0-.063 MM)	97.800	98.488	98.325	97.948	97.344
	SILT (.063-.004 MM)	1.069	.970	1.030	1.342	1.079
	CLAY (<.004 MM)	.000	.000	.000	.000	.000
	MEAN (MM)	.3136	.3232	.3058	.2788	.3427
	MEAN (PHI)	1.673	1.630	1.710	1.842	1.545
	STANDARD DEVIATION	.839	.782	.798	.792	.872
	SKEWNESS	.219	.098	.095	.227	.260
	KURTOSIS	3.241	2.876	2.331	3.619	2.881
	CALCIUM CARBONATE	7.000	7.200	7.100	6.700	8.900
	NITROGEN (KJELDAHL)	.005	.006	.012	.012	.008
	COLOR (GSA)	5Y4/2	5Y4/2	5Y5/2	5Y4/3	5Y4/3

MGG09005068

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 21.1'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 10 DEPTH 15.9 LONGITUDE 81° 18.9'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 507 101 10-A-2 PERCENT	507 102 10-B-2 PERCENT	507 103 10-C-2 PERCENT	507 104 10-D-2 PERCENT	507 105 10-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.353	.248	.564	.077	.629
-1 TO 0	2.000 TO 1.000	.776	.545	.789	.500	1.078
0 TO 1	1.000 TO .500	5.324	7.130	6.805	3.075	9.646
1 TO 2	.500 TO .250	42.137	52.241	39.173	31.591	45.746
2 TO 3	.250 TO .125	47.814	37.410	48.008	59.416	39.904
3 TO 4	.125 TO .063	2.539	1.287	3.195	4.074	1.678
4 TO 5	.063 TO .031	1.058	1.139	1.466	1.268	1.318
5 TO 6	.031 TO .016	.000	.000	.000	.000	.000
6 TO 7	.016 TO .008	.000	.000	.000	.000	.000
7 TO 8	.008 TO .004	.000	.000	.000	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	.353	.248	.564	.077	.629
	SAND (2.0-.063 MM)	98.590	98.614	97.970	98.655	98.053
	SILT (.063-.004 MM)	1.058	1.139	1.466	1.268	1.318
	CLAY (<.004 MM)	.000	.000	.000	.000	.000
	MEAN (MM)	.2533	.2785	.2522	.2221	.2802
	MEAN (PHI)	1.981	1.844	1.987	2.171	1.835
	STANDARD DEVIATION	.748	.724	.808	.692	.818
	SKEWNESS	.194	.026	.210	.143	.159
	KURTOSIS	2.392	2.252	2.340	2.247	2.107
	CALCIUM CARBONATE	7.500	6.400	7.200	6.400	7.800
	NITROGEN (KJELDAHL)	.014	.017	.014	.012	.010
	COLOR (GSA)	5Y4/4	5Y5/4	5Y6/2	5Y4/3	5Y4/4

MCG09005068

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 21.9'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 11 DEPTH 15.2 LONGITUDE 81° 17.8'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	507 111 11-A-2 PERCENT	507 112 11-B-2 PERCENT	507 113 11-C-2 PERCENT	507 114 11-D-2 PERCENT	507 115 11-E-2 PERCENT
<-4	>16.000	.000	4.750	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	3.018	.398	.418	.866	1.739
-2 TO -1	4.000 TO 2.000	1.393	.597	1.253	1.087	1.761
-1 TO 0	2.000 TO 1.000	2.786	2.617	3.452	2.431	3.055
0 TO 1	1.000 TO .500	20.362	22.298	23.385	22.707	32.287
1 TO 2	.500 TO .250	45.345	45.762	49.248	48.895	40.221
2 TO 3	.250 TO .125	23.125	20.791	19.349	21.215	18.689
3 TO 4	.125 TO .063	2.670	1.792	1.587	1.473	.912
4 TO 5	.063 TO .031	1.300	.995	1.308	1.326	1.336
5 TO 6	.031 TO .016	.000	.000	.000	.000	.000
6 TO 7	.016 TO .008	.000	.000	.000	.000	.000
7 TO 8	.008 TO .004	.000	.000	.000	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	4.411	5.745	1.670	1.952	3.500
	SAND (2.0-.063 MM)	94.288	93.259	97.021	96.722	95.163
	SILT (.063-.004 MM)	1.300	.995	1.308	1.326	1.336
	CLAY (<.004 MM)	.000	.000	.000	.000	.000
	MEAN (MM)	.3785	.4415	.3770	.3690	.4237
	MEAN (PHI)	1.402	1.179	1.407	1.438	1.239
	STANDARD DEVIATION	1.170	1.556	.958	.973	1.076
	SKEWNESS	.479	-1.078	.106	.220	.245
	KURTOSIS	2.622	6.053	2.060	2.698	2.219
	CALCIUM CARBONATE	8.600	6.600	10.400	8.900	11.800
	NITROGEN (KJELDAHL)	.011	.011	.016	.012	.014
	COLOR (GSA)	5Y4/3	5Y5/4	5Y4/3	5Y4/3	5Y4/3

MC00600568

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 21.1'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 12 DEPTH 18.9 LONGITUDE 81° 17.2'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 507 121 12-A-2 PERCENT	507 122 12-B-2 PERCENT	507 123 12-C-2 PERCENT	507 124 12-D-2 PERCENT	507 125 12-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.637
-3 TO -2	8.000 TO 4.000	.975	.258	.142	1.250	.891
-2 TO -1	4.000 TO 2.000	.542	.749	.378	.545	1.623
-1 TO 0	2.000 TO 1.000	2.960	4.184	2.105	3.428	4.297
0 TO 1	1.000 TO .500	23.105	38.585	26.466	26.498	30.968
1 TO 2	.500 TO .250	38.303	38.326	43.283	46.203	45.130
2 TO 3	.250 TO .125	27.184	12.655	16.272	16.725	12.540
3 TO 4	.125 TO .063	4.116	2.273	4.494	2.627	1.941
4 TO 5	.063 TO .031	2.816	2.970	.804	2.723	1.973
5 TO 6	.031 TO .016	.000	.000	.355	.000	.000
6 TO 7	.016 TO .008	.000	.000	.828	.000	.000
7 TO 8	.008 TO .004	.000	.000	.662	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	4.210	.000	.000
	GRAVEL (>2.0 MM)	1.516	1.007	.520	1.794	3.151
	SAND (2.0-.063 MM)	95.668	96.023	92.621	95.482	94.876
	SILT (.063-.004 MM)	2.816	2.970	2.649	2.723	1.973
	CLAY (<.004 MM)	.000	.000	4.210	.000	.000
	MEAN (MM)	.3314	.4179	.2829	.3785	.4318
	MEAN (PHI)	1.593	1.259	1.927	1.402	1.212
	STANDARD DEVIATION	1.111	1.043	2.133	1.077	1.108
	SKEWNESS	.081	.363	1.421	.012	.206
	KURTOSIS	1.500	1.752	8.666	2.339	3.207
	CALCIUM CARBONATE	8.200	9.300	11.700	8.700	7.000
	NITROGEN (KJELDAHL)	.015	.016	.032	.016	.017
	COLOR (GSA)	5Y4/3	5Y4/3	5Y3/2	5Y4/4	5Y4/3

MGG 0 9 0 0 5 0 6 8

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30°20.2'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 13 DEPTH 15.2 LONGITUDE 81° 18.2'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 507 131 13-A-2 PERCENT	507 132 13-B-2 PERCENT	507 133 13-C-2 PERCENT	507 134 13-D-2 PERCENT	507 135 13-E-2 PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.202	.000	.247	.186	.061
-1 TO 0	2.000 TO 1.000	.363	.385	.318	.278	.214
0 TO 1	1.000 TO .500	2.260	1.732	1.447	1.652	1.132
1 TO 2	.500 TO .250	22.115	22.771	21.744	23.984	20.893
2 TO 3	.250 TO .125	66.344	68.121	67.914	64.439	69.195
3 TO 4	.125 TO .063	7.345	5.709	7.024	7.511	7.128
4 TO 5	.063 TO .031	1.372	1.283	1.306	1.801	1.377
5 TO 6	.031 TO .016	.000	.000	.000	.000	.000
6 TO 7	.016 TO .008	.000	.000	.000	.000	.000
7 TO 8	.008 TO .004	.000	.000	.000	.000	.000
8 TO 9	.004 TO .002	.000	.000	.000	.000	.000
9 TO 10	.002 TO .001	.000	.000	.000	.000	.000
>10	<.001	.000	.000	.000	.000	.000
	GRAVEL (>2.0 MM)	.202	.000	.247	.186	.061
	SAND (2.0-.063 MM)	98.426	98.717	98.447	98.014	98.562
	SILT (.063-.004 MM)	1.372	1.283	1.306	1.801	1.377
	CLAY (<.004 MM)	.000	.000	.000	.000	.000
	MEAN (MM)	.2009	.2018	.1988	.1998	.1950
	MEAN (PHI)	2.316	2.309	2.331	2.323	2.358
	STANDARD DEVIATION	.686	.635	.661	.691	.624
	SKEWNESS	.277	.141	.303	.132	.096
	KURTOSIS	3.573	2.737	4.444	3.211	3.181
	CALCIUM CARBONATE	5.900	10.100	5.200	7.200	7.600
	NITROGEN (KJELDAHL)	.011	.013	.011	.011	.011
	COLOR (GSA)	5Y4/2	5Y4/2	5Y5/2	5Y4/1	5Y4/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 14 DEPTH LONGITUDE CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 507 141 C-1-A-2 PERCENT	507 142 C-2-A-2 PERCENT
<-4	>16.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	8.261
-2 TO -1	4.000 TO 2.000	.000	6.517
-1 TO 0	2.000 TO 1.000	.000	6.891
0 TO 1	1.000 TO .500	.060	9.257
1 TO 2	.500 TO .250	.839	20.548
2 TO 3	.250 TO .125	31.636	44.541
3 TO 4	.125 TO .063	41.102	2.574
4 TO 5	.063 TO .031	2.996	1.411
5 TO 6	.031 TO .016	.479	.000
6 TO 7	.016 TO .008	1.558	.000
7 TO 8	.008 TO .004	2.217	.000
8 TO 9	.004 TO .002	.719	.000
9 TO 10	.002 TO .001	1.618	.000
>10	<.001	16.777	.000
	GRAVEL (>2.0 MM)	.000	14.778
	SAND (2.0-.063 MM)	73.637	83.811
	SILT (.063-.004 MM)	7.250	1.411
	CLAY (<.004 MM)	19.113	.000
	MEAN (MM)	.0399	.4110
	MEAN (PHI)	4.547	1.283
	STANDARD DEVIATION	2.927	1.704
	SKEWNESS	.647	.480
	KURTOSIS	.036	.076
	CALCIUM CARBONATE	11.000	31.400
	NITROGEN (KJELDAHL)	.117	.015
	COLOR (GSA)	5Y3/2	5Y3/2

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE TAKEN 0 0 LATITUDE 30° 23.7'N MARSDEN SQUARE 117 LENGTH .0 ANALYZED 0 0
SAMPLE 15 DEPTH LONGITUDE 81° 24.5'W CORER TYPE SPK PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 507 151 T-1-A-2 PERCENT	507 152 T-2-A-2 PERCENT	507 153 T-3-A-2 PERCENT	507 154 T-4-A-2 PERCENT	507 155 T-5-A-2 PERCENT
<-4	>16.000	32.056	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	17.862	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	5.973	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	6.602	.363	.000	.293	.000
-1 TO 0	2.000 TO 1.000	3.344	.181	.000	.000	.000
0 TO 1	1.000 TO .500	1.686	.363	.124	.147	.000
1 TO 2	.500 TO .250	1.315	.544	.497	.147	.000
2 TO 3	.250 TO .125	3.687	7.260	10.435	1.613	1.101
3 TO 4	.125 TO .063	7.431	4.356	12.671	5.865	4.846
4 TO 5	.063 TO .031	1.629	1.270	5.839	4.985	1.322
5 TO 6	.031 TO .016	1.400	5.082	1.988	3.666	3.084
6 TO 7	.016 TO .008	1.258	4.356	5.590	6.745	6.608
7 TO 8	.008 TO .004	1.429	11.252	6.957	7.038	9.251
8 TO 9	.004 TO .002	1.572	3.993	7.453	8.944	3.524
9 TO 10	.002 TO .001	.429	2.541	2.733	2.199	2.643
>10	<.001	12.318	58.439	45.714	58.358	67.621
	GRAVEL (>2.0 MM)	62.504	.363	.000	.293	.000
	SAND (2.0-.063 MM)	17.462	12.704	23.727	7.771	5.947
	SILT (.063-.004 MM)	5.716	21.960	20.373	22.434	20.264
	CLAY (<.004 MM)	14.318	64.973	55.901	69.501	73.789
	MEAN (MM)	1.1064	.0027	.0049	.0023	.0017
	MEAN (PHI)	.146	8.518	7.663	8.733	9.200
	STANDARD DEVIATION	5.249	2.832	3.132	2.505	2.167
	SKEWNESS	.508	.620	.270	.620	.762
	KURTOSIS	.422	.373	-.348	.524	1.167
	CALCIUM CARBONATE	66.100	29.700	24.100	28.300	30.200
	NITROGEN (KJELDAHL)	.062	.403	.295	.421	.469
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2

MGG00005068

Lab Item 507
CHEMICAL ANALYSIS SUMMARY

CHEMICAL OXYGEN DEMAND

Sample Number	mg/g	mg/g	mg/g	mg/g		Mean mg/g				
1-A-1	9.5	7.8	10.6			9.3				
1-B-1	11.0	11.6				11.3				
1-C-1	26.7	25.5				26.1				
1-D-1	3.4	3.0				3.2				
1-E-1	60.8	56.4	49.5	56.9		55.9				
2-A-1	14.5	13.3				13.9				
2-B-1	5.4	6.7	6.0			6.0				
2-C-1	1.9	1.7				1.8				
2-D-1	1.9	1.8				1.9				
2-E-1	2.0	2.4				2.2				
3-A-1	7.4	6.9				7.2				
3-B-1	2.3	2.2				2.3				
3-C-1	7.3	9.2	9.3			8.6				
3-D-1	14.2	16.0	16.4			15.5				
3-E-1	3.3	3.7				3.5				
4-A-1	6.2	6.2				6.2				
4-B-1	2.3	1.4	1.7			1.8				
4-C-1	4.1	3.5				3.8				
4-D-1	16.1	19.5	18.8			18.1				
4-E-1	1.9	1.7				1.8				
5-A-1	5.9	5.9				5.9				
5-B-1	5.3	5.5				5.4				
5-C-1	2.2	2.2				2.2				
5-D-1	1.7	1.7				1.7				
5-E-1	2.5	3.0				2.8				
6-A-1	2.2	2.6	2.9			2.6				
6-B-1	2.4	2.3				2.4				
6-C-1	2.2	2.0				2.1				
6-D-1	16.7	17.3				17.0				
6-E-1	3.3	3.8				3.6				
7-A-1	2.2	2.1				2.2				
7-B-1	3.6	3.2				3.4				
7-C-1	2.6	2.8				2.7				
7-D-1	2.2	2.4				2.3				
7-E-1	3.5	3.3				3.4				
8-A-1	11.1	10.0	10.3			10.5				
8-B-1	2.4	2.6				2.5				
8-C-1	2.4	2.5				2.5				
8-D-1	1.9	1.7				1.8				
8-E-1	2.6	2.6				2.6				

Lab Item 507
CHEMICAL ANALYSIS SUMMARY

CHEMICAL OXYGEN DEMAND

SAMPLE NUMBER	mg/g	mg/g	mg/g	mg/g		Mean mg/g				
9-A-1	1.4	1.4				1.4				
9-B-1	1.7	1.8				1.8				
9-C-1	1.2	0.7	1.5			1.1				
9-D-1	1.1	2.0				1.6				
9-E-1	1.7	1.2	1.5			1.5				
10-A-1	Not Available									
10-B-1	1.5	1.5				1.5				
10-C-1	1.4	1.8				1.6				
10-D-1	1.7	1.8				1.8				
10-E-1	Not Available									
11-A-1	1.8	1.9				1.9				
11-B-1	1.8	2.0				1.9				
11-C-1	2.4	2.2				2.3				
11-D-1	2.0	2.4	2.0			2.1				
11-E-1	2.0	1.6				1.8				
12-A-1	2.4	2.3				2.4				
12-B-1	3.1	3.7				3.4				
12-C-1	8.4	8.5				8.5				
12-D-1	3.9	3.6				3.8				
12-E-1	3.7	3.2				3.5				
13-A-1	2.2	2.2				2.2				
13-B-1	2.3	1.8	2.1			2.1				
13-C-1	1.8	1.9				1.9				
13-D-1	3.5	2.9	3.2	3.9		3.4				
13-E-1	2.3	2.3				2.3				
C1A-1	34.9	39.0	35.8	31.6		35.3				
C2A-1	3.9	3.7	4.3			4.0				
T1A-1	169	161				165				
T2A-1	146	137	137			140				
T3A-1	116	122	123			120				
T4A-1	141	143	146			143				
T5A-1	159	163	165			162				

Lab Item 507
CHEMICAL ANALYSIS SUMMARY

Sample Number	ORGANIC CARBON % C	% C	Average % C			TOTAL KJELDAHL NITROGEN % N	% N	% N	Average % N	Standard Deviation
1A2	.172	.170	.171			.016	.016	.019	.017	.0017
1B2	.273	.266	.270			.025	.026	.024	.025	.0010
1C2	.590	.642	.616			.052	.053	.051	.052	.0010
1D2	.125	.121	.123			.014	.016	.015	.015	.0010
1E2	1.103	1.192	1.148			.102	.101	.097	.100	.0026
2A2	.200	.199	.200			.022	.026	.022	.023	.0023
2B2	.089	.084	.086			.013	.011	.013	.012	.0012
2C2	.046	.041	.044			.012	.009	.010	.010	.0015
2D2	.046	.047	.046			.011	.009	.009	.010	.0012
2E2	.060	.064	.062			.011	.010		.010	.0007
3A2	.156	.151	.154			.022	.020		.021	.0014
3B2	.038	.040	.039			.011	.010	.012	.011	.0010
3C2	.139	.135	.137			.021	.021	.019	.020	.0012
3D2	.305	.307	.306			.051	.053	.051	.052	.0012
3E2	.067	.072	.070			.014	.012	.015	.014	.0015
4A2	.120	.122	.121			.017	.016	.0145	.016	.0012
4B2	.052	.049	.050			.009	.010	.009	.009	.0005
4C2	.051	.054	.052			.013	.0125	.011	.012	.0010
4D2	.307	.305	.306			.056	.053	.051	.053	.0025
4E2	.063	.062	.062			.011	.011		.011	.0000
5A2	.056	.051	.054			.014	.010	.012	.012	.0020
5B2	.100	.104	.102			.018	.019	.024	.020	.0032
5C2	.052	.054	.053			.015	.014	.0125	.014	.0012
5D2	.044	.042	.043			.0074	.0057	.015	.006	.0012
5E2	.044	.047	.046			.011	.008	.009	.009	.0015
6A2	.367	.360	.364			.016	.017	.018	.017	.0010
6B2	.048	.047	.048			.006	.009	.012	.009	.0030
6C2	.042	.042	.042			.010	.012		.011	.0014
6D2	.188	.189	.188			.059	.060	.060	.060	.0006
6E2	.065	.070	.068			.013	.013	.012	.013	.0006
7A2	.052	.050	.051			.016	.016	.015	.016	.0006
7B2	.069	.065	.067			.014	.017	.019	.017	.0025
7C2	.062	.058	.060			.017	.017	.018	.017	.0006
7D2	.045	.048	.046			.016	.019	.016	.017	.0017
7E2	.058	.062	.060			.023	.016	.018	.019	.0036
8A2	.146	.139	.142			.047	.044	.042	.044	.0025
8B2	.049	.052	.050			.020	.018	.022	.020	.0020
8C2	.043	.038	.040			.015	.014		.014	.0007

Lab Item 507
CHEMICAL ANALYSIS SUMMARY

	ORGANIC CARBON					TOTAL KJELDAHL NITROGEN				
Sample nber	% C	% C	Average % C			% N	% N	% N	Average % N	Standard Deviation
8D2	.052	.055	.054			.015	.009	.011	.012	.0030
8E2	.048	.043	.046			.015	.017	.014	.015	.0015
9A2	.030	.035	.032			.003	.007		.005	.0028
9B2	.037	.032	.034			.004	.006	.007	.006	.0015
9C2	.025	.032	.028			.010	.012	.014	.012	.0020
9D2	.027	.027	.027			.011	.014		.012	.0020
9E2	.038	.035	.036			.009	.0065		.008	.0018
10A2	.032	.030	.031			.016	.013	.014	.014	.0015
10B2	.037	.039	.038			.018	.016	.018	.017	.0015
10C2	.037	.044	.040			.015	.014		.014	.0007
10D2	.044	.045	.044			.012	.013		.012	.0007
10E2	.041	.038	.040			.010	.012	.009	.010	.0015
11A2	.046	.045	.046			.012	.011	.010	.011	.0010
11B2	.041	.041	.041			.013	.0105	.009	.011	.0026
11C2	.046	.044	.045			.016	.016		.016	.0000
11D2	.046	.052	.049			.010	.013	.012	.012	.0015
11E2	.042	.043	.042			.013	.014	.015	.014	.0010
12A2	.058	.058	.058			.013	.017	.016	.015	.0020
12B2	.058	.053	.056			.016	.017		.016	.0007
12C2	.191	.181	.186			.032	.033	.030	.032	.0015
12D2	.075	.071	.073			.016	.017		.016	.0007
12E2	.061	.057	.059			.017	.017	.017	.017	.0000
13A2	.049	.053	.051			.011	.010	.013	.011	.0015
13B2	.049	.050	.049			.013	.013		.013	.0000
13C2	.051	.045	.048			.010	.011	.011	.011	.0005
13D2	.076	.078	.077			.010	.014	.010	.011	.0023
13E2	.054	.056	.055			.010	.011	.012	.011	.0010
T1A	.664	.677	.670			.059	.062	.064	.062	.0025
T2A	3.215	3.273	3.244			.404	.397	.407	.403	.0050
T3A	2.760	2.754	2.757			.293	.299	.294	.295	.0032
T4A	2.908	2.881	2.894			.421	.424	.419	.421	.0025
T5A	3.356	3.360	3.358			.464	.473	.469	.469	.0045
C1A	.891	.824	.858			.117	.117	.118	.117	.0006
C2A	.074	.077	.076			.015	.016	.015	.015	.0005

LAB ITEM 507

VOLATILE SOLIDS SUMMARY

Sample Number	%VS	%VS	%VS	%VS	Average %VS	Standard Deviation				
1A2	1.28	1.25			1.265	.0350				
1B2	2.17	2.12			2.145	.0354				
1C2	2.08	2.15			2.115	.0816				
1D2	1.14	1.19			1.165	.0583				
1E2	4.58	4.80			4.690	.2565				
2A2	3.46	4.03	3.78		3.757	1.0983				
2B2	.79	.71			.750	.0933				
2C2	.69	.62			.655	.0816				
2D2	.61	.64			.625	.0350				
2E2	.59	.52			.555	.0816				
3A2	.87	.84			.855	.0350				
3B2	.48	.46			.470	.0233				
3C2	1.11	1.26			1.185	.1749				
3D2	2.28	2.42	2.54		2.413	.5002				
3E2	.38	.39			.385	.0116				
4A2	.54	.57			.555	.0350				
[illegible]2	.45	.43	.42		.433	.0587				
4C2	.81	.86	.86		.843	.1110				
4D2	1.89	1.91			1.900	.0233				
4E2	.67	.62			.645	.0583				
5A2	1.01	.95	.88		.947	.2501				
5B2	.86	.87			.865	.0116				
5C2	.57	.48	.67	.54	.565	.0794				
5D2	.48	.38	.42		.427	.1935				
5E2	.61	.58	.53		.573	.1554				
6A2	.69	.66			.675	.0350				
6B2	.43	.47			.450	.0466				
6C2	.55	.42	.48		.483	.2501				
6D2	2.41	2.47			2.440	.0699				
6E2	.74	.70			.720	.0466				
7A2	.66	.65			.655	.0116				
7B2	.57	1.85	1.01	.71	1.025	.5735				
7C2	.88	.90			.890	.0233				
7D2	.64	.83	.71		.727	.3694				
7E2	.52	1.10	.78	.80	.800	.2372				
8A2	1.24	1.33			1.285	.1049				
8B2	.37	.36	.32		.350	.1017				
8C2	.31	.62	.53	.65	.528	.1537				
8D2	.53	.44	.36		.443	.3269				

LAB ITEM 507

VOLATILE SOLIDS SUMMARY

Sample Number	% VS	% VS	% VS	% VS	Average % VS	Standard Deviation				
8E2	.53	.54			.535	.0116				
9A2	.48	.45			.465	.0350				
9B2	.42	.45			.435	.0350				
9C2	.42	.43	.38		.410	.1017				
9D2	.58	.60	.68		.620	.2034				
9E2	.35	.42			.385	.0816				
10A2	.43	.48			.455	.0583				
10B2	.31	.38			.345	.0816				
10C2	.46	.47			.465	.0116				
10D2	.50	.47			.485	.0350				
10E2	.59	.50	.46		.517	.2560				
11A2	.50	.50	.58		.527	.1776				
11B2	.43	.43			.430	.0000				
11C2	.48	.50			.490	.0233				
11D2	.23	.36	.44	.37	.350	.0876				
11E2	.46	.55	.45		.455	.0116				
12A2	.67	.82	.72		.737	.2936				
12B2	.86	.96	.90		.907	.1935				
12C2	1.95	2.01			1.980	.0699				
12D2	.95	.80	.66	.87	.820	.1230				
12E2	.65	.67			.660	.0233				
13A2	.39	.40			.395	.0116				
13B2	.34	.31			.325	.0350				
13C2	.48	.49			.485	.0116				
13D2	.53	.54	.47		.513	.0378				
13E2	.49	.38	.53		.467	.2986				
C1A	3.81	3.76			3.785	.0583				
C2A	.75	.80	.90		.817	.2936				
T1A	5.38	5.55			5.465	.1982				
T2A	15.23	17.10			16.165	2.1801				
T3A	10.08	9.96			10.020	.1399				
T4A	14.93	15.23	15.37		15.177	.8642				
T5A	14.77	14.18	14.97		14.640	.4107				

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TUGBOAT 6. FEBRUARY 1977.

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