WES TR D-77-24

Appendix E

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APPENDIX A': TABULATION OF CHEMICAL DATA

This section includes data documentation from (1) the analysis of water, sediment, SPM, elutriates, and interstitial waters for chlorinated biphenyls, and (2) the result from this analysis of sediment for TOC, oil-grease, and percent solids. The data are arranged chronologically by cruise and numerically by station name within each cruise. The data entries are defined below.

Cruise: julian date cruise number.

Station: project grid station name (refer to station charts).

Water Depth: approximate depth in metres of the water column at the station, determined either from meter wheel reading during sediment collections, sonic depth, or estimated from charted depths when sampling was initiated. Stations for which depth is not available are indicated by 99 or 100.

Date: sampling date.

Local Time: Time sampling was initiated (24-hour clock), based on either Pacific Standard or Pacific Daylight time. Stations for which the sampling time is not available are indicated by a 1.

Longitude and Latitude: station location (refer to station charts).

DC: depth code, relative depth number at which sample was taken. For water and SPM, 1 = surface, 2 = 10 metres from bottom and 3 = 1 metre from bottom. For sediment, 1 = upper horizon and 2 = lower horizon.

Depth: The first column in the data section is the depth, in metres, at which the samples were collected. For sediment, elutriates, interstitial waters, TOC, oil-grease, and percent solids, the depth is the depth of the water column. If DC = 1, the sample is from the surface to 10 cm deep. If DC = 2, the sample is from 10 cm to the end of the core.

REPL: The second column indicates the replicate number of that sample. For example, 1/3 indicates that the sample is the first of three replicates. For cruise 35, only one sample was taken.

For sample types: PCB sediment, elutriates, interstitial waters, water, SPM.

2-CB...7-CB: Columns three through eight present the concentrations of the chlorobiphenyls of each degree of chlorination (2 through 7) measured in the sample. A value of .00* indicates either

that the value could not be determined due to analytical interferences or that compounds were present below analytical detectability.

TCB: Column 9 presents the total concentration of chlorobiphenyls measured in the sample.

Time: On cruises 55 and 57, time series samplings for SPM and water were made. The time for the sample is in column 10.

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	21	1	76 2 3	1	122 18.47	47 31.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	1	1/ 2	.00*	27.82	29.18	37.22	23.55	7.11	112.80
TYPE: ELUTRIATES WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	99	1/ 2	.00*	3.03	6.18	3.47	1.12	.49	14.28

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 1 1/ 2 H2O =57.4 POROSITY = .3374
SOLIDS=42.6 VOID RATIO= .5092

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 1 1/ 2 O-G = 1.16

CRUISE- 35 STATION- 21

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	22	99	76	2	3	1	122 18.45	47 31.45

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	57.66	459.95	1036.50	1132.40	30[illegible].91	148.38	3138.80
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.94	7.12	18.35	15.45	5.05	.44	47.35

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =52.1 POROSITY = .2908
SOLIDS=47.9 VOID RATIO= .4101

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.75

CRUISE- 35 STATION- 22

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	23	99	76	2	3	1	122 18.43	47 31.44

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	119.17	684.51	1614.30	1885.90	589.40	191.21	5084.40
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	7.73	34.05	34.48	14.47	1.63	.33	92.69

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =56.5 POROSITY = .3289
SOLIDS=43.5 VOID RATIO= .4901

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 2.46

CRUISE- 35 STATION- 23

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	24	99	76	2	3	1	122 18.42	47 31.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

1	99	1/ 2	.03	51.25	479.86	1326.40	561.35	453.36	2872.30

TYPE: ELUTRIATES WITH UNITS:PICOGRAMS NCB PER GM ML WATER

1	99	1/ 2	.37	7.19	10.11	6.44	2.58	1.70	28.38

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =47.6 POROSITY = .2552
SOLIDS=52.4 VOID RATIO= .3427

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.05

CRUISE- 35 STATION- 24

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	25	99	76 2 3	1	122 18.40	47 31.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	121.71	1017.50	2360.00	2482.50	751.54	249.02	6982.30
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	1.46	74.57	169.23	150.65	33.35	9.82	439.08

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =61.0 POROSITY = .3712
SOLIDS=39.0 VOID RATIO= .5904

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.41

CRUISE- 35 STATION- 25

CRUISE	STATION	WATER DEPTH	YR	MCN	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	26	99	76	2	3	1	122 18.39	47 31.42

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	101.02	653.01	1462.70	1733.10	523.65	257.35	4730.90
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	16.91	93.61	37.30	13.15	2.22	.78	163.97

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =52.8 POROSITY = .2967
SOLIDS=47.2 VOID RATIO= .4220

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.33

CRUISE- 35 STATION- 26

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	27	99	76	2	3	1	122 18.37	47 31.41

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
1	99	1/ 2	54.04	461.02	974.64	988.32	262.68	98.39	2839.10
TYPE: ELUTRIATES			WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	99	1/ 2	.00*	98.10	33.56	8.79	1.14	.36	141.96

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =56.2 POROSITY = .3258
SOLIDS=43.8 VOID RATIO= .4832

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.02

CRUISE- 35 STATION- 27

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	28	99	76	2	3	1	122 18.36	47 31.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	83.95	381.59	812.66	888.47	288.35	83.81	2538.80
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.00*	89.74	26.06	9.84	1.07	.35	127.07

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =54.0 POROSITY = .3071
SOLIDS=46.0 VOID RATIO= .4433

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .79

CRUISE- 35 STATION- 28

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	29	99	76	2	3	1	122 18.34	47 31.39

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	89.47	521.87	1107.10	1149.50	331.92	107.68	3307.50
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.01*	61.53	43.45	15.58	1.39	.48	122.43

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =46.4 POROSITY = .2460
SOLIDS=53.6 VOID RATIO= .3263

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .96

CRUISE- 35 STATION- 29

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	30	99	76	2	3	1	122 18.33	47 31.38

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	.01*	3.72	5.88	4.62	.84	8	13.45
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.00*	39.56	16.44	4.48	.53	.09	61.11

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =53.7 POROSITY = .3046
SOLIDS=46.3 VOID RATIO= .4380

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .07

CRUISE- 35 STATION- 30

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	31	99	76	2	3	1	122 18.31	47 31.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	37.32	263.94	488.60	368.75	84.03	44.21	1286.90
TYPE: ELUTRI				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	7.79	25.04	20.98	6.79	1.03	.00*	61.64

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =51.7 POROSITY = .2880
SOLIDS=48.3 VOID RATIO= .4046

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = 1.03

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	32	99	76	2	3	1	122 18.30	47 31.36

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	88.99	450.72	623.28	453.62	103.66	48.16	1768.40
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	5.69	27.25	23.90	6.57	.84	.30	64.55

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =51.1 POROSITY = .2827
SOLIDS=48.9 VOID RATIO= .3942

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .80

CRUISE- 35 STATION- 32

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	33	99	76	2	3	1	122 18.30	47 31.35

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
1	99	1/ 2	149.07	839.02	1114.70	765.39	174.36	61.62	3104.20
TYPE: ELUTRIATES			WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	99	1/ 2	13.89	72.31	45.76	14.01	1.56	1.07	148.61

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =50.0 POROSITY = .2737
SOLIDS=50.0 VOID RATIO= .3768

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .90

CRUISE- 35 STATION- 33

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	34	99	76	2	3	1	122 18.29	47 31.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	7.13	24.13	47.07	53.12	15.93	11.05	158.42
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.01*	4.77	11.21	6.45	1.45	.31	24.19

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =44.4 POROSITY = .2315
SOLIDS=55.6 VOID RATIO= .3012

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .63

CRUISE- 35 STATION- 34

CRUISE	STATION	WATER DEPTH	YR	MCN	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	35	99	76	2	3	1	122 18.29	47 31.32

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	4.75	33.31	60.49	58.60	17.13	12.39	186.67
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.00*	2.37	6.18	4.32	1.24	.00*	14.12

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =51.7 POROSITY = .2875
SOLIDS=48.3 VOID RATIO= .4035

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .49

CRUISE- 35 STATION- 35

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	36	99	76	2	3	1	122 18.28	47 31.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	18.61	50.89	83.70	94.16	31.20	16.02	294.58
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	.01*	5.05	11.32	7.27	1.92	.00*	25.56

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =46.9 POROSITY = .2500
SOLIDS=53.1 VOID RATIO= .3332

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .44

CRUISE- 35 STATION- 36

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	37	99	76	2	3	1	122 18.28	47 31.29

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	4.14	30.64	69.85	80.66	25.03	16.47	226.80
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	2.35	6.00	4.81	3.17	.45	.00*	16.78

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =47.0 POROSITY = .2508
SOLIDS=53.0 VOID RATIO= .3347

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .49

CRUISE- 35 STATION- 37

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	38	99	76 2 3	1	122 18.27	47 31.27

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	.01*	3.13	3.55	3.56	.58	.24	11.07
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	1.78	3.50	4.64	2.33	.32	.10	12.66

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =26.8 POROSITY = .1216
SOLIDS=73.2 VOID RATIO= .1385

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .04

CRUISE- 35 STATION- 38

CRUISE	STATION	WATER DEPTH	YR	MCN	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
35	39	99	76	2	3	1	122 18.26	47 31.26

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	99	1/ 2	3.10	29.50	68.76	91.45	32.56	23.73	249.11
TYPE: ELUTRIATES				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	99	1/ 2	2.79	5.31	7.14	3.68	.92	.49	20.34

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 99 1/ 2 H2O =54.5 POROSITY = .3115
SOLIDS=45.5 VOID RATIO= .4524

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 99 1/ 2 O-G = .75

CRUISE- 35 STATION- 39

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	1	100	76	2	5	1	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	5.35	30.25	94.13	52.25	35.39	217.38
1	100	2/ 2	.01*	3.76	21.58	64.39	35.47	25.82	151.04
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	7.39	28.09	37.83	20.18	3.30	96.84
1	100	2/ 2	.05	2.75	5.95	20.00	5.16	.02	33.92

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =39.6	POROSITY =	.1981
		SOLIDS=60.4	VOID RATIO=	.2471
1 100	2/ 2	H2O =37.6	POROSITY =	.1853
		SOLIDS=62.4	VOID RATIO=	.2274

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.59
1 100	2/ 2	O-G =	.81

CRUISE- 37 STATION- 1

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	2	100	76 2 5	1	122 21.44	47 35.46

DC DEPTH REPL		2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1 100	1/ 2	.00*	4.36	28.38	75.93	37.15	26.74	172.56
1 100	2/ 2	.00*	2.75	20.83	60.99	34.81	31.15	150.54
TYPE: INTERSTITIAL WATERS			WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1 100	1/ 2	.03	5.39	15.44	16.08	11.77	.01	48.72
1 100	2/ 2	.02	28.00	296.92	350.04	50.60	12.96	738.55

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =42.6	POROSITY =	.2185
		SOLIDS=57.4	VOID RATIO=	.2796
1 100	2/ 2	H2O =45.4	POROSITY =	.2389
		SOLIDS=54.6	VOID RATIO=	.3140

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.65
1 100	2/ 2	O-G =	.59

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	3	100	76 2 5	1	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.00*	8.39	33.08	65.10	23.66	80.92	211.16
1	100	2/ 2	2.58	45.16	107.37	232.58	158.19	146.53	692.41
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	1.84	19.99	33.33	13.49	2.65	71.32
1	100	2/ 2	.00*	3.18	6.23	9.54	14.27	.00*	33.27

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =37.3	POROSITY =	.1834
		SOLIDS=62.7	VOID RATIO=	.2245
1 100	2/ 2	H2O =42.1	POROSITY =	.2151
		SOLIDS=57.9	VOID RATIO=	.2740

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.84
1 100	2/ 2	O-G =	1.27

CRUISE- 37 STATION- 3

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	4	100	76	2	5	1	122 21.35	47 35.46

DC DEPTH REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS							
1 100 1/ 2	.00*	2.96	25.74	94.86	61.79	47.62	232.98
1 100 2/ 2	.01*	7.44	40.59	124.93	77.04	60.04	310.05
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER							
1 100 1/ 2	.03	3.60	14.22	6.94	2.09	.01	26.90
1 100 2/ 2	.05	22.08	33.62	43.63	17.65	11.05	128.09

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100 1/ 2	H2O =45.4	POROSITY =	.2390
	SOLIDS=54.6	VOID RATIO=	.3140
1 100 2/ 2	H2O =45.8	POROSITY =	.2421
	SOLIDS=54.2	VOID RATIO=	.3195

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G = 1.03
1 100	2/ 2	O-G = .73

CRUISE- 37 STATION- 4

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	5	100	76 2 5	1	122 21.49	47 35.43

DC DEPTH REPL		2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1 100	1/ 2	.00*	2.37	20.26	60.30	27.87	20.14	130.95
1 100	2/ 2	.01	4.97	75.55	341.55	300.85	251.44	974.38
TYPE: INTERSTITIAL WATERS			WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1 100	1/ 2	.05	3.89	24.19	58.34	21.97	19.09	127.52
1 100	2/ 2	.04	7.21	35.78	57.34	25.05	.02	125.44

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =34.8	POROSITY =	.1675
		SOLIDS=65.2	VOID RATIO=	.2012
1 100	2/ 2	H2O =38.5	POROSITY =	.1912
		SOLIDS=61.5	VOID RATIO=	.2365

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G	= 1.02
1 100	2/ 2	O-G	= .56

CRUISE- 37 STATION- 5

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	6	100	76	2	5	1	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	100	1/ 2	.00*	3.78	26.46	92.58	64.73	44.28	231.84
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	100	1/ 2	.05	21.26	44.78	39.01	17.66	14.88	137.65

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100 1/ 2 H2O =39.9 POROSITY = .2006
SOLIDS=60.1 VOID RATIO= .2510

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100 1/ 2 O-G = .50
1 100 2/ 2 O-G = .00

CRUISE- 37 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	7	100	76 2 5	1	122 21.40	47 35.43

SC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

1	100	1/ 2	.01	4.92	29.72	92.42	41.13	32.67	200.88
1	100	2/ 2	.01	4.28	30.74	77.93	34.92	23.67	171.55

TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER

1	100	1/ 2	.12	.14	12.04	30.11	8.80	.04	51.25
1	100	2/ 2	.05	12.26	24.00	22.41	11.05	7.25	77.02

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	100	1/ 2	H2O =36.2	POROSITY = .1762
			SOLIDS=63.8	VOID RATIO= .2139
1	100	2/ 2	H2O =38.1	POROSITY = .1885
			SOLIDS=61.9	VOID RATIO= .2323

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	100	1/ 2	O-G =	.73
1	100	2/ 2	O-G =	.47

CRUISE- 37 STATION- 7

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	8	100	76	2	5	1	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	2.24	13.87	94.41	177.17	63.67	43.61	394.97
1	100	2/ 2	.01	3.53	21.92	68.65	35.14	26.77	156.02
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.03	29.34	36.62	41.17	13.64	4.54	125.34
1	100	2/ 2	.04	39.27	174.70	135.68	22.51	8.06	380.26

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =43.8	POROSITY =	.2271
		SOLIDS=56.2	VOID RATIO=	.2939
1 100	2/ 2	H2O =46.0	POROSITY =	.2432
		SOLIDS=54.0	VOID RATIO=	.3214

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.61
1 100	2/ 2	O-G =	.66

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	9	100	76	2	5	1	122 21.49	47 35.40

DC DEPTH REPL		2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1 100	1/ 2	.01	3.85	29.59	108.67	74.19	66.66	282.97
1 100	2/ 2	.01*	2.53	25.02	89.80	52.15	36.15	205.66
TYPE: INTERSTITIAL WATERS			WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1 100	1/ 2	.03	8.95	.03	8.64	5.29	.01*	22.94
1 100	2/ 2	.03	25.66	31.82	48.63	7.39	.01	113.55

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =43.7	POROSITY =	.2264
		SOLIDS=56.3	VOID RATIO=	.2927
1 100	2/ 2	H2O =31.9	POROSITY =	.1504
		SOLIDS=68.1	VOID RATIO=	.1769

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.54
1 100	2/ 2	O-G =	.31

CRUISE- 37 STATION- 9

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	10	100	76	2	5	1	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	2.66	24.02	71.76	35.62	24.35	158.42
1	100	2/ 2	.01*	1.93	15.55	44.54	22.40	16.62	101.05
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.09	16.32	12.47	20.62	21.54	.03	71.08
1	100	2/ 2	.04	15.00	18.46	35.33	15.39	4.10	88.32

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =37.2	POROSITY =	.1830
		SOLIDS=62.8	VOID RATIO=	.2240
1 100	2/ 2	H2O =41.0	POROSITY =	.2081
		SOLIDS=59.0	VOID RATIO=	.267.

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.32
1 100	2/ 2	O-G =	.45

CRUISE- 37 STATION- 10

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	11	100	76	2	5	1	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.02	1.22	20.02	195.55	193.94	326.86	737.60
1	100	2/ 2	.01*	2.37	20.61	59.22	25.18	16.54	123.92
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.04	4.33	42.65	32.02	14.80	2.55	96.39
1	100	2/ 2	.04	46.24	22.65	27.48	4.87	.01	101.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =40.0	POROSITY =	.2011
		SOLIDS=60.0	VOID RATIO=	.2517
1 100	2/ 2	H2O =38.8	POROSITY =	.1929
		SOLIDS=61.2	VOID RATIO=	.2390

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.20
1 100	2/ 2	O-G =	.20

CRUISE- 37 STATION- 11

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	12	100	76	2	5	1	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	2.89	19.93	51.23	22.84	13.67	110.57
1	100	2/ 2	33.08	102.09	243.22	353.88	170.84	130.90	1034.00
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.06	4.15	10.04	23.20	18.03	3.48	58.97
1	100	2/ 2	.05	19.79	38.55	50.35	17.47	14.38	140.59

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =35.5	POROSITY =	.1722
		SOLIDS=64.5	VOID RATIO=	.2081
1 100	2/ 2	H2O =43.7	POROSITY =	.2265
		SOLIDS=56.3	VOID RATIO=	.2929

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.69
1 100	2/ 2	O-G =	1.36

CRUISE- 37 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	14	100	76 2 5	1	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	5.15	75.70	220.53	91.47	73.88	466.73
1	100	2/ 2	.01	6.18	49.88	193.20	130.82	107.00	487.10
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	20.45	157.00	171.60	99.23	18.88	467.10
1	100	2/ 2	.00*	2.56	19.24	36.32	11.89	.00*	70.08

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =38.3	POROSITY =	.1896
		SOLIDS=61.7	VOID RATIO=	.2339
1 100	2/ 2	H2O =37.0	POROSITY =	.1815
		SOLIDS=63.0	VOID RATIO=	.2217

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.55
1 100	2/ 2	O-G =	.31

CRUISE- 37 STATION- 14

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	13	100	76	2	5	1	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.02	7.04	65.51	523.61	422.84	735.37	1754.40
1	100	2/ 2	.01*	3.53	28.36	73.94	28.52	16.49	150.85
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	7.61	32.61	37.46	27.79	.00*	105.60
1	100	2/ 2	.00*	3.16	59.47	32.13	15.96	.00*	110.80

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =32.7	POROSITY =	.1551
		SOLIDS=67.3	VOID RATIO=	.1835
1 100	2/ 2	H2O =37.6	POROSITY =	.1851
		SOLIDS=62.4	VOID RATIO=	.2271

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.47
1 100	2/ 2	O-G =	.59

CRUISE- 37 STATION- 13

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	15	100	76	2	5	1	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	3.16	38.11	134.69	61.28	35.46	272.70
1	100	2/ 2	.01*	4.01	23.38	71.40	44.33	31.40	174.53
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	10.61	19.61	6.04	.00*	.00*	36.43
1	100	2/ 2	.00*	2.42	3.32	3.57	.51	.00*	9.89

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	100	1/ 2	H2O =30.0	POROSITY = .1391
			SOLIDS=70.0	VOID RATIO= .1615
1	100	2/ 2	H2O =38.0	POROSITY = .1877
			SOLIDS=62.0	VOID RATIO= .2310

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	100	1/ 2	O-G	= .29
1	100	2/ 2	O-G	= .30

CRUISE- 37 STATION- 15

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	16	100	76 2 5	1	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	100	1/ 2	.01	6.81	93.03	216.84	64.74	32.43	413.88
1	100	2/ 2	.01*	4.10	28.22	76.85	39.01	28.02	176.22
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	100	1/ 2	.00*	3.39	26.53	27.17	13.59	3.77	74.49
1	100	2/ 2	.00*	2.65	6.47	16.40	12.06	.00*	37.63

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =38.7	POROSITY =	.1925
		SOLIDS=61.3	VOID RATIO=	.2384
1 100	2/ 2	H2O =43.6	POROSITY =	.2255
		SOLIDS=56.4	VOID RATIO=	.2912

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.58
1 100	2/ 2	O-G =	.68

CRUISE- 37 STATION- 16

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	17	100	76	2	5	1	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.00*	.94	11.31	33.03	13.12	7.91	66.31
1	100	2/ 2	.00*	1.44	9.20	24.24	11.31	8.31	54.51
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.06	2.40	4.73	7.63	3.43	.02	18.27
1	100	2/ 2	.00*	21.12	16.65	26.98	9.17	.00*	74.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =30.9	POROSITY =	.1442
		SOLIDS=69.1	VOID RATIO=	.1684
1 100	2/ 2	H2O =34.4	POROSITY =	.1653
		SOLIDS=65.6	VOID RATIO=	.1980

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.56
1 100	2/ 2	O-G =	.27

CRUISE- 37 STATION- 17

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	18	100	76 2 5	1	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.00*	1.67	10.30	27.41	12.29	8.50	60.18
1	100	2/ 2	.00*	1.51	10.27	25.46	10.81	8.75	56.79
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.00*	.00*	9.81	9.25	9.19	.00*	28.26
1	100	2/ 2	.00*	4.67	15.44	15.99	13.97	.00*	50.19

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =34.7	POROSITY =	.1672
		SOLIDS=65.3	VOID RATIO=	.2008
1 100	2/ 2	H2O =35.4	POROSITY =	.1714
		SOLIDS=64.6	VOID RATIO=	.2068

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G =	.25
1 100	2/ 2	O-G =	1.04

CRUISE- 37 STATION- 18

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	19	100	76	2	5	1	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	100	1/ 2	.01*	7.15	51.09	176.61	94.07	58.73	387.65
1	100	2/ 2	.01*	22.70	74.17	199.57	97.09	70.42	463.96
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	100	1/ 2	.04	13.86	47.13	57.23	27.81	18.48	164.56
1	100	2/ 2	.04	21.40	137.42	123.88	23.79	11.63	318.17

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =43.0	POROSITY =	.2218
		SOLIDS=57.0	VOID RATIO=	.2850
1 100	2/ 2	H2O =46.5	POROSITY =	.2470
		SOLIDS=53.5	VOID RATIO=	.3280

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G	= 1.99
1 100	2/ 2	O-G	= 2.01

CRUISE- 37 STATION- 19

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
37	20	100	76	2	5	1	122 20.38	47 35.58

DC DEPTH REPL		2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1 100	1/ 2	.01*	7.21	42.44	105.29	46.83	33.90	235.67
1 100	2/ 2	.00*	2.88	20.81	64.49	37.78	30.43	156.39
TYPE: INTERSTITIAL WATERS			WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1 100	1/ 2	.02	3.38	4.87	15.79	10.27	6.18	40.51
1 100	2/ 2	.05	14.48	41.62	39.32	17.45	5.83	118.75

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1 100	1/ 2	H2O =41.5	POROSITY =	.2114
		SOLIDS=58.5	VOID RATIO=	.2681
1 100	2/ 2	H2O =37.7	POROSITY =	.1856
		SOLIDS=62.3	VOID RATIO=	.2279

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 100	1/ 2	O-G	= 1.49
1 100	2/ 2	O-G	= 1.54

CRUISE- 37 STATION- 20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	6	1	76 2 23	840	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	.72	1.44	1.81	.28	.13	4.38	840
2	52	1/ 2	.00*	.55	.98	1.15	.27	.06	3.01	846
3	60	1/ 2	.00*	1.57	3.34	2.41	.49	.00*	8.11	852
1	1	1/ 2	.00*	.53	1.10	1.20	.42	.26	3.51	925
2	52	1/ 2	.00*	.44	.58	.60	.09	.00*	1.71	930
3	60	1/ 2	.00*	420.80	513.60	674.20	178.09	75.48	2162.20	935
1	1	1/ 2	.00*	3.06	2.46	1.57	.21	.00*	7.30	955
2	52	1/ 2	.00*	7.40	17.29	13.68	3.22	1.42	43.01	1002
3	62	1/ 2	.00*	7.92	17.57	13.23	2.21	1.35	42.28	1013
1	1	1/ 2	.00*	3.51	5.07	11.29	3.74	1.33	24.93	1025
2	52	1/ 2	.00*	.22	.91	1.13	.51	.31	3.09	1027
3	62	1/ 2	.00*	12.21	19.12	16.81	4.82	1.21	54.16	1032
1	1	1/ 2	.00*	1.26	1.87	1.59	.46	.05	5.23	1120
2	52	1/ 2	.00*	.60	.86	.80	.21	.00*	2.47	1122
1	1	1/ 2	.00*	1.34	1.67	2.23	.61	.55	6.39	1150
2	54	1/ 2	.00*	.86	.75	1.21	.35	.20	3.37	1155
3	64	1/ 2	.00*	15.42	32.24	25.95	6.58	3.65	83.84	1200
1	1	1/ 2	.00*	.00*	1.77	1.65	.60	.00*	4.02	1220
2	54	1/ 2	.00*	.72	1.29	.95	.27	.17	3.40	1223
	64	1/ 2	.00*	13.11	20.21	11.52	2.09	.62	47.55	1230
1	1	1/ 2	.00*	.88	3.22	2.66	.70	.26	7.72	1251
2	52	1/ 2	.00*	1.82	4.47	2.66	.64	.39	9.98	1255
	62	1/ 2	.00*	2.70	4.40	3.39	.69	.33	11.51	1300

CRUISE- 55 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	6	62	76 2 23	1300	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	.34	1.63	1.26	.30	.00*	3.53	1330
2	52	1/ 2	.00*	1.86	4.69	4.20	1.03	.42	12.20	1337
3	60	1/ 2	.00*	5.08	9.14	6.39	1.18	.71	22.50	1343
1	1	1/ 2	.00*	6.10	12.18	7.83	1.14	.26	27.51	1445
2	52	1/ 2	.00*	2.70	5.57	3.77	.89	.67	13.60	1448
3	60	1/ 2	.00*	35.55	84.89	32.30	5.89	3.26	161.89	1501
1	1	1/ 2	.00*	2.95	5.69	3.61	.99	.00*	13.24	1515
2	52	1/ 2	.00*	9.98	18.89	11.48	1.93	.00*	42.28	1519
3	62	1/ 2	.00*	37.96	49.34	24.51	6.17	4.40	122.38	1524
1	1	1/ 2	.00*	.61	1.79	1.88	.55	.12	4.95	1547
2	52	1/ 2	.00*	10.57	15.65	7.20	1.22	.64	35.28	1551
3	62	1/ 2	.00*	6.89	10.68	7.03	1.81	1.41	27.83	1557
1	1	1/ 2	.00*	2.93	3.23	2.80	.99	.76	10.71	1643
2	52	1/ 2	.00*	2.27	3.71	3.13	.66	.11	9.88	1646
3	62	1/ 2	.00*	28.03	38.89	19.25	5.19	2.23	93.59	1651
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	.73	.88	.50	.12	.05	2.28	840
2	52	1/ 2	.00*	.29	.58	.70	.25	.09	1.91	846
3	60	1/ 2	.00*	.26	.67	.64	.16	.07	1.80	852
1	1	1/ 2	.00*	.22	.66	.51	.14	.07	1.60	925

CRUISE- 55 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	6	1	76 2 23	925	122 21.44	47 35.43

TYPE: SPM WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
2	52	1/ 2	.00*	1.74	2.85	1.37	.59	.14	6.69	930
3	60	1/ 2	.00*	606.05	1242.10	931.60	303.70	145.71	3229.20	935
1	1	1/ 2	.00*	.06	.63	.17	.20	.05	1.11	955
2	52	1/ 2	.00*	2.91	5.61	4.88	1.38	.26	15.04	1002
3	60	1/ 2	.00*	.23	.49	.50	.12	.06	1.40	1013
1	1	1/ 2	.00*	.27	.51	.56	.16	.01*	1.51	1025
2	52	1/ 2	.00*	.29	.79	.62	.18	.02	1.90	1027
3	60	1/ 2	.00*	4.95	6.62	6.64	2.57	.28	21.06	1032
1	1	1/ 2	.00*	.04	.41	.28	.12	.05	.90	1120
2	52	1/ 2	.00*	.08	.19	.22	.11	.07	.67	1122
3	60	1/ 2	.00*	.21	.11	.22	.12	.04	.70	1127
1	1	1/ 2	.00*	.21	.08	.10	.05	.07	.51	1150
2	52	1/ 2	.00*	.11	.34	.38	.21	.10	1.14	1155
3	60	1/ 2	.00*	.57	1.04	.61	.24	.10	2.56	1200
1	1	1/ 2	.00*	.11	.16	.37	.28	.41	1.33	1220
2	52	1/ 2	.00*	.00*	.09	.55	.18	.04	.86	1223
3	60	1/ 2	.00*	.29	.71	.58	.25	.07	1.90	1230
1	1	1/ 2	.00*	.00*	.26	.20	.12	.07	.65	1251
2	52	1/ 2	.00*	1.22	2.52	1.57	.76	.41	6.48	1255
3	60	1/ 2	.00*	.17	.53	.36	.07	.05	1.18	1300
1	1	1/ 2	.00*	.33	.49	.36	.11	.07	1.36	1330
2	52	1/ 2	.00*	1.74	2.36	2.27	.67	.27	7.32	1337
3	60	1/ 2	.00*	.24	.54	.37	.21	.14	1.50	1343

CRUISE- 55 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	6	60	76 2 23	1343	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	.25	.69	.48	.17	.00*	1.59	1445
2	52	1/ 2	.00*	.86	2.37	1.67	.85	.00*	5.75	1448
3	60	1/ 2	.00*	1.78	3.17	2.54	.63	.15	8.26	1501
1	1	1/ 2	.00*	.46	.38	.64	.19	.02	1.69	1515
2	52	1/ 2	.00*	13.07	5.89	4.15	1.90	.70	25.72	1519
3	60	1/ 2	.00*	.80	.77	.58	.17	.26	2.58	1524
1	1	1/ 2	.00*	.07	.59	1.44	.58	.26	2.92	1547
2	52	1/ 2	.00*	16.29	6.23	3.66	1.69	.78	28.64	1551
3	60	1/ 2	.00*	.50	.85	1.22	1.29	2.00	5.87	1557
1	1	1/ 2	.00*	3.53	3.93	.26	.33	.25	8.29	1643
2	52	1/ 2	.00*	2.76	1.34	2.28	.77	.99	8.14	1646
3	60	1/ 2	.00*	4.34	1.32	.96	.36	.14	7.12	1651

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	17	1	76 2 23	417	122 22.39	47 35.33

TYPE: WATER WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
1	1	1/ 2	.00*	.53	.90	.94	.41	.00*	2.78	417
1	1	2/ 2	.00*	.51	.93	.91	.31	.07	2.73	507
2	63	2/ 2	.00*	2.20	3.01	1.76	.40	.00*	7.37	514
2	63	1/ 2	.00*	2.34	3.31	2.08	.53	.00*	8.26	519
3	69	1/ 2	.00*	.56	1.49	1.23	.28	.00*	3.56	531
3	71	2/ 2	.00*	.36	.93	.78	.21	.05	2.33	535
1	1	1/ 2	.00*	2.18	1.98	2.57	.76	.14	7.63	1715
2	37	1/ 2	.00*	.32	.50	.24	.00*	.00*	1.06	1719
3	55	1/ 2	.00*	14.78	16.38	12.39	1.23	.88	45.66	1724
1	1	2/ 2	.00*	1.88	1.83	2.20	.64	.00*	6.55	1727
2	43	2/ 2	.00*	.22	.40	.40	.20	.00*	1.22	1731
3	55	2/ 2	.00*	.30	.39	.19	.02	.00*	.90	1735

CRUISE- 55 STATION- 17

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	44	1	76	2	23	641	122 21.34	47 35.24

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	1.82	2.01	1.71	.53	.53	6.60	641
1	1	2/ 2	.00*	1.01	2.37	2.48	.71	.08	6.65	645
2	19	1/ 2	.00*	.49	1.17	.98	.29	.00*	2.93	648
2	19	2/ 2	.00*	.46	.77	.78	.16	.00*	2.17	651
3	34	1/ 2	.00*	.89	1.44	.51	.46	.00*	3.30	655
3	34	2/ 2	.00*	.43	.89	.65	.25	.00*	2.22	659
1	1	1/ 2	.00*	4.20	5.96	5.24	2.02	1.26	18.68	1746
2	15	1/ 2	.00*	.33	1.50	1.57	.69	.05	4.14	1750
3	26	1/ 2	.00*	.47	.70	1.40	.07	.00*	2.64	1754
1	1	1/ 2	.00*	1.68	4.89	6.14	3.05	2.22	17.98	1756
2	11	1/ 2	.00*	.98	2.66	3.55	1.71	.12	9.02	1802
3	26	1/ 2	.00*	.40	.92	1.18	.47	.34	3.31	1804

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
55	19	1	76	2	23	745	122 20.38	47 36.00

TYPE: WATER WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
1	1	1/ 2	.00*	.52	1.42	1.60	.51	.19	4.24	745
1	1	2/ 2	.00*	.81	1.58	1.62	.48	.00*	4.49	746
2	41	1/ 2	.00*	.37	.71	.56	.13	.00*	1.77	750
2	41	2/ 2	.00*	.48	1.04	1.12	.11	.00*	2.75	752
3	55	1/ 2	.00*	.78	1.19	1.04	.34	.00*	3.35	754
3	55	2/ 2	.00*	.52	1.10	.94	.20	.00*	2.76	755
1	1	1/ 2	.00*	4.20	6.22	8.08	4.09	.55	23.14	1812
2	50	1/ 2	.00*	1.13	1.53	1.05	.18	.04	3.92	1823
3	60	1/ 2	.00*	1.79	3.80	4.91	2.57	2.79	15.86	1827
1	1	2/ 2	.00*	1.34	3.40	3.44	1.53	.68	10.38	1831
3	68	2/ 2	.00*	1.32	2.02	1.42	.37	.00*	5.12	1839
2	49	2/ 2	.00*	1.25	.96	2.17	1.33	.00*	5.71	1843

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	6	1	76 2 25	837	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	2.08	2.30	4.79	.71	.20	10.08	
2	50	1/ 2	.00*	14.58	17.40	14.89	2.21	1.04	50.12	841
3	62	1/ 2	.00*	2.37	3.79	2.61	.49	.25	9.51	851
1	1	1/ 2	.00*	1.54	2.91	3.58	1.24	.49	9.76	914
2	54	1/ 2	.00*	34.57	21.35	16.85	3.29	1.67	77.73	916
3	62	1/ 2	.00*	14.01	10.62	10.59	2.17	1.11	38.50	921
1	1	1/ 2	.00*	6.91	7.04	4.26	1.03	.32	19.56	943
2	54	1/ 2	.00*	10.53	6.38	8.08	1.85	.98	27.82	946
3	62	1/ 2	.00*	10.36	16.15	10.80	1.70	.00*	39.02	951
1	1	1/ 2	.00*	2.85	5.28	4.29	.97	.72	14.11	1015
2	54	1/ 2	.00*	2.31	4.37	2.41	.38	.07	9.54	1019
3	62	1/ 2	.00*	20.32	43.06	27.66	4.94	7.88	103.86	1024
1	1	1/ 2	.00*	1.76	2.98	2.18	.54	.30	7.77	1105
2	54	1/ 2	.00*	6.43	5.58	2.81	.55	.00*	15.37	1108
3	62	1/ 2	.00*	4.25	7.11	4.14	.37	.12	15.99	1113
1	1	1/ 2	.00*	.60	1.95	1.58	.54	.00*	4.66	1133
2	54	1/ 2	.00*	89.23	156.68	108.84	30.66	14.66	400.06	1136
3	62	1/ 2	.00*	20.68	12.98	12.66	2.42	1.01	49.75	1140
1	1	1/ 2	.00*	4.40	10.09	6.52	1.19	.96	23.16	1203
2	54	1/ 2	.00*	2.75	4.32	2.54	.49	.29	10.39	1206
3	62	1/ 2	.00*	13.04	22.97	12.31	2.33	3.93	54.58	1213
1	1	1/ 2	.00*	.90	1.53	1.33	.32	.20	4.27	1233
2	54	1/ 2	.00*	3.24	4.90	2.63	.54	.00*	11.31	1235

CRUISE- 57 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	6	54	76 2 25	1235	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
3	62	1/ 2	.00*	4.50	6.98	4.13	.87	.17	16.63	
1	1	1/ 2	.00*	.40	1.17	.94	.30	.00*	2.81	1330
2	54	1/ 2	.00*	1.86	3.44	2.20	.60	.50	8.59	1333
3	62	1/ 2	.00*	2.27	4.03	2.71	.49	.27	9.77	1337
1	1	1/ 2	.00*	.57	1.40	1.34	.38	.05	3.74	1400
2	54	1/ 2	.00*	1.00	1.34	.72	.45	.00*	3.50	1402
3	62	1/ 2	.00*	170.06	275.85	175.86	45.55	22.01	689.33	1408
1	1	1/ 2	.00*	1.37	2.58	2.28	.68	.33	7.25	1431
2	54	1/ 2	.00*	.46	1.22	.82	.16	.00*	2.66	1434
3	62	1/ 2	.00*	15.51	43.78	20.76	4.28	1.45	85.78	1440
1	1	1/ 2	.00*	.91	1.37	1.23	.35	.09	3.95	1500
2	54	1/ 2	.00*	3.19	6.51	5.22	1.21	.32	16.45	1503
3	62	1/ 2	.00*	9.91	15.45	9.68	1.49	.00*	36.53	1507
1	1	1/ 2	.00*	2.65	4.48	3.64	1.07	.71	12.54	1622
2	54	1/ 2	.00*	1.28	2.05	1.60	.32	.14	5.40	1625
3	62	1/ 2	.00*	1.00	1.54	1.37	.30	.00*	4.21	1629
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	1.81	.77	.39	.31	.17	3.46	
2	52	1/ 2	.00*	2.03	.67	.60	.41	.72	4.44	841
3	60	1/ 2	.00*	1.74	1.04	.84	.76	.18	4.56	851

CRUISE- 57 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	6	60	76 2 25	851	122 21.44	47 35.43

TYPE: SPM WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
1	1	1/ 2	.00*	.30	.21	.23	.20	.17	1.12	
2	50	1/ 2	.00*	8.77	3.12	.99	.15	.09	13.12	916
3	60	1/ 2	.00*	13.94	7.20	1.39	.33	.37	23.24	921
1	1	1/ 2	.00*	10.71	1.92	.71	.24	.16	13.74	943
2	50	1/ 2	.00*	.56	2.12	2.00	.73	.56	5.97	946
3	60	1/ 2	.00*	1.58	3.17	3.83	1.33	.81	10.71	951
1	1	1/ 2	.00*	.27	.45	.63	.35	.14	1.84	1015
2	50	1/ 2	.00*	.47	2.05	1.93	.56	.28	5.29	1019
3	60	1/ 2	.00*	1.12	4.57	4.19	1.59	.62	12.08	1024
1	1	1/ 2	.00*	.25	.35	.74	.39	.14	1.87	1105
2	50	1/ 2	.00*	.36	.98	1.00	.37	.28	2.99	1108
3	60	1/ 2	.00*	.27	.62	.67	.22	.12	1.90	1113
1	1	1/ 2	.00*	.19	.29	.28	.13	.08	.96	1133
2	50	1/ 2	.00*	81.13	201.18	171.25	58.80	26.06	538.42	1136
3	60	1/ 2	.00*	1.64	6.89	6.07	1.88	1.19	17.67	1140
1	1	1/ 2	.00*	.26	.86	.82	.22	.17	2.33	1203
2	50	1/ 2	.00*	.49	1.02	.91	.32	.26	3.00	1206
3	60	1/ 2	.00*	.68	1.74	3.08	1.26	.41	7.16	1213
1	1	1/ 2	.00*	.15	.31	.26	.09	.05	.85	1233
2	50	1/ 2	.00*	.44	1.60	1.48	.49	.33	4.33	1235
3	60	1/ 2	.00*	.18	.69	.52	.17	.11	1.67	1241
1	1	1/ 2	.00*	.34	.25	.20	.12	.04	.94	1330
2	50	1/ 2	.00*	.34	.94	.98	.38	.21	2.85	1333

CRUISE- 57 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	6	50	76 2 25	1333	122 21.44	47 35.43

TYPE: SPM WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
3	60	1/ 2	.00*	.16	.46	.43	.13	.12	1.30	
1	1	1/ 2	.00*	.47	.58	.65	.15	.08	1.92	1400
2	50	1/ 2	.00*	.20	.48	.45	.16	.11	1.41	1403
3	62	1/ 2	.00*	498.40	711.07	601.09	227.42	139.34	2177.30	1408
1	1	1/ 2	.00*	.57	.80	.94	.36	.27	2.93	1431
2	50	1/ 2	.00*	.53	.95	1.01	.22	.10	2.81	1434
3	60	1/ 2	.00*	2.54	9.08	8.37	2.68	1.37	24.04	1440
1	1	1/ 2	.00*	.50	.87	1.00	.34	.27	2.98	1500
2	50	1/ 2	.00*	1.20	4.31	4.19	1.30	.62	11.62	1503
3	60	1/ 2	.00*	1.15	4.01	4.50	1.54	.61	11.81	1507
1	1	1/ 2	.00*	.98	.92	1.25	.72	.51	4.39	1622
2	50	1/ 2	.00*	.67	1.00	1.05	.24	.12	3.08	1625
3	60	1/ 2	.00*	.54	.95	.89	.21	.11	2.71	1629

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	17	1	76 2 25	711	122 22.39	47 35.33

TYPE: WATER WITH UNITS:PICOGRAMS NCB PER GM ML WATER

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
1	1	1/ 2	.00*	1.03	1.18	.77	.08	.15	3.22	
2	45	1/ 2	.00*	.98	1.28	.74	.54	.00*	3.53	715
3	54	1/ 2	.00*	.70	1.69	1.12	.23	.00*	3.74	721
1	1	2/ 2	.00*	2.34	5.18	5.70	1.45	.94	15.61	724
2	45	2/ 2	.00*	1.02	2.18	1.00	.16	.14	4.51	727
3	55	2/ 2	.00*	.78	.91	.70	.15	.02	2.56	731
1	1	1/ 2	.00*	.69	.71	1.44	.23	.17	3.24	1646
2	60	1/ 2	.00*	3.31	2.83	2.88	.74	.00*	9.76	1648
3	80	1/ 2	.00*	1.79	1.90	1.79	.29	.03	5.76	1653
1	1	2/ 2	.00*	2.83	5.40	8.03	1.45	.74	18.45	1659
2	55	2/ 2	.00*	1.03	.86	.87	.26	.04	3.06	1701
3	72	2/ 2	.00*	1.24	1.45	3.74	1.49	.00*	7.92	1705

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	19	1	76	2	25	555	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	1.65	2.24	1.96	.62	.57	7.04	
2	50	1/ 2	.00*	1.30	2.14	.98	.20	.00*	4.62	558
3	64	1/ 2	.00*	3.69	3.98	2.19	.37	.00*	10.23	603
1	1	2/ 2	.00*	1.29	3.27	3.47	1.40	1.56	10.99	607
2	54	2/ 2	.00*	1.75	2.12	1.44	.21	.00*	5.52	611
3	60	2/ 2	.00*	2.85	8.72	7.73	1.52	.49	21.31	620
1	1	1/ 2	.00*	.72	1.64	1.72	.62	.35	5.05	1730
2	45	1/ 2	.00*	1.10	1.62	1.11	.10	.00*	3.93	1732
3	51	1/ 2	.00*	1.77	2.94	1.90	.37	.00*	6.98	1736
1	1	2/ 2	.00*	2.48	8.41	9.23	2.23	.82	23.17	1740
2	48	2/ 2	.00*	1.37	1.46	.88	.19	.06	3.97	1745
3	58	2/ 2	.00*	2.94	4.04	2.38	.44	.09	9.88	1748

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
57	44	1	76 2 25	751	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB	TIME
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	3.06	4.41	2.85	.90	.00*	11.22	
1	1	2/ 2	.00*	3.79	11.22	10.68	2.20	2.24	30.12	752
2	10	1/ 2	.00*	.95	.97	1.05	.15	.00*	3.13	753
2	10	2/ 2	.00*	.30	.99	1.18	.37	.00*	2.84	754
3	30	1/ 2	.00*	3.09	7.98	8.11	1.06	1.28	21.52	758
3	30	2/ 2	.00*	.91	1.95	1.75	.44	.00*	5.06	759
1	1	1/ 2	.00*	1.81	3.08	1.93	.50	.70	8.02	1714
2	6	1/ 2	.00*	3.15	5.13	1.44	.29	.00*	10.01	1716
3	20	1/ 2	.00*	.00*	2.50	2.09	.37	.09	5.05	1718
1	1	2/ 2	.00*	2.17	2.34	3.74	1.44	.68	10.37	1720
2	10	2/ 2	.00*	.91	1.71	2.01	.10	.05	4.78	1721
3	20	2/ 2	.00*	.73	.97	.97	.21	.03	2.91	1723

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
67	6	[illegible]	76	3	7	1200	122 21.44	47 35.43

SC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.92	2.35	1.67	.35	.00*	5.29
2	48	1/ 2	.00*	.95	1.63	1.22	.21	.00*	4.01
3	59	1/ 2	.00*	2.97	5.62	3.75	.71	.22	13.28
1	1	2/ 2	.00*	5.60	21.71	14.92	1.62	.69	44.62
2	48	2/ 2	.00*	1.36	2.92	1.90	.42	.00*	6.59
3	59	2/ 2	.00*	3.06	5.18	3.12	.57	.00*	11.92
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.39	.49	.81	.37	.34	2.41
2	48	1/ 2	.00*	.55	.53	.65	.25	.17	2.15
3	59	1/ 2	.00*	.61	1.78	2.34	.86	.69	6.28
1	1	2/ 2	.00*	.53	.55	.62	.32	.24	2.26
	48	2/ 2	.00*	.53	1.12	1.40	.52	.27	3.84
3	59	2/ 2	.00*	1.88	2.98	2.28	.86	.26	8.25

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
67	10	1	76 3 7	1337	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	2.13	3.21	2.93	.67	.31	9.25
2	48	1/ 2	.00*	.54	1.00	.78	.15	.00*	2.47
3	58	1/ 2	.00*	2.93	5.96	5.29	1.20	.14	15.53
1	1	2/ 2	.00*	.84	.91	.75	.21	.00*	2.71
2	48	2/ 2	.00*	.43	.56	.55	.13	.14	1.81
3	58	2/ 2	.00*	4.85	12.58	11.16	2.23	.00*	30.82
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.27	.63	.92	.50	.22	2.55
2	48	1/ 2	.00*	.32	.42	.46	.15	.11	1.46
3	58	1/ 2	.00*	.62	1.39	2.09	.84	.48	5.43
1	1	2/ 2	.00*	.51	.54	.56	.19	.18	1.99
2	48	2/ 2	.00*	.27	.52	.41	.17	.10	1.47
3	58	2/ 2	.00*	2.31	12.80	17.70	6.28	1.82	40.92

CRUISE- 67 STATION- 10

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
67	17	1	76 3 7	1055	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.76	1.20	.92	.20	.00*	3.07
2	50	1/ 2	.00*	4.41	20.81	15.65	1.87	.55	43.29
3	57	1/ 2	.00*	3.17	5.47	2.98	.72	.00*	12.33
1	1	2/ 2	.00*	.89	2.83	1.63	.22	.03	5.60
2	47	2/ 2	.00*	.75	1.63	1.23	.29	.02	3.92
3	63	2/ 2	.00*	1.64	2.34	1.09	.09	.00*	5.15

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
67	19	1	76	3	7	921	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER			WITH UNITS:PICOGRAMS NCB PER GM ML WATER						
1	1	1/ 2	.00*	2.28	2.91	2.07	.32	.00*	7.58
2	47	1/ 2	.00*	1.94	3.53	2.60	.46	.28	8.81
3	56	1/ 2	.00*	4.81	7.83	4.77	.88	.00*	18.29
1	1	2/ 2	.00*	2.24	2.88	2.77	.49	.05	8.43
2	50	2/ 2	.00*	3.08	5.61	3.93	.64	.36	13.62
3	56	2/ 2	.00*	3.84	7.49	4.58	.74	.15	16.80

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
67	44	1	76	3	7	1039	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	2.79	2.77	2.18	.64	.00*	8.39
2	15	1/ 2	.00*	1.34	1.90	2.21	.49	.00*	5.94
3	27	1/ 2	.00*	.56	1.17	1.30	.41	.37	3.81

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	1	66	76 3 16	916	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	.01*	5.11	42.92	129.24	68.46	46.76	292.49
1	66	1/ 2	15.95	176.93	373.12	390.19	116.95	67.13	1140.30
2	59	2/ 2	.01*	5.34	25.18	65.77	36.97	29.35	162.62
1	59	2/ 2	41.14	228.13	455.95	481.83	128.61	59.14	1394.80
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	66	1/ 2	.07	1.99	5.76	8.57	1.61	.03	18.04
1	66	1/ 2	.02	55.89	83.73	45.81	11.60	7.20	204.25
2	59	2/ 2	.05	40.67	25.21	28.44	14.60	.02	109.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =30.2	POROSITY =	.1401
			SOLIDS=69.8	VOID RATIO=	.1629
1	66	1/ 2	H2O =46.6	POROSITY =	.2481
			SOLIDS=53.4	VOID RATIO=	.3299
2	59	2/ 2	H2O =31.7	POROSITY =	.1469
			SOLIDS=68.3	VOID RATIO=	.1750
1	59	2/ 2	H2O =50.9	POROSITY =	.2815
			SOLIDS=49.1	VOID RATIO=	.3917

CRUISE- 76 STATION- 1

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	1	59	76 3 16	935	122 21.49	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	66	1/ 2	O-G	= .85
1	66	1/ 2	O-G	= 1.00
2	59	2/ 2	O-G	= .63
1	59	2/ 2	O-G	= .78

CRUISE- 76 STATION- 1

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	2	59	76 3 16	956	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	59	1/ 2	.00*	1.56	10.81	30.56	14.09	10.68	67.71
1	59	1/ 2	39.50	145.59	217.43	206.65	59.75	35.23	704.15
2	64	2/ 2	3.37	23.88	97.59	80.65	21.22	15.36	242.08
1	64	2/ 2	21.69	240.98	428.35	482.79	228.25	56.73	1458.80
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	59	1/ 2	.03	147.32	1723.60	1838.20	223.01	49.37	3981.60
2	64	2/ 2	.11	10.89	35.08	29.04	13.49	.04	88.65
1	64	2/ 2	.04	28.54	24.37	16.31	6.15	1.66	77.07

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	59	1/ 2	H2O =31.7	POROSITY =	.1490
			SOLIDS=68.3	VOID RATIO=	.1750
1	59	1/ 2	H2O =44.0	POROSITY =	.2285
			SOLIDS=56.0	VOID RATIO=	.2962
2	64	2/ 2	H2O =31.9	POROSITY =	.1500
			SOLIDS=68.1	VOID RATIO=	.1765
1	64	2/ 2	H2O =45.3	POROSITY =	.2383
			SOLIDS=54.7	VOID RATIO=	.3129

CRUISE- 76 STATION- 2

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	2	64	76	3	16	1009	122 21.44	47 35.46

CC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

59	1/ 2	O-G	=	.47
59	1/ 2	O-G	=	.60
64	2/ 2	O-G	=	.91
64	2/ 2	O-G	=	.69

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	3	60	76 3 16	1017	122 21.40	47 35.46

C	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
YPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
60	1/	2	.00*	3.23	14.13	29.96	14.64	12.76	74.72
60	1/	2	24.98	271.18	533.88	596.87	167.77	69.61	1664.30
61	2/	2	.00*	5.44	31.49	59.66	24.69	19.12	140.40
61	2/	2	25.97	213.20	416.00	462.25	128.20	63.60	1309.20
YPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
60	1/	2	.06	4.70	39.72	42.05	18.79	.02	105.34
60	1/	2	.05	12.03	10.53	9.26	1.90	.02	33.79
61	2/	2	.07	3.62	32.27	40.86	11.94	.03	88.79

YPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

60	1/ 2	H2O =28.2	POROSITY =	.1291
		SOLIDS=71.8	VOID RATIO=	.1482
60	1/ 2	H2O =45.4	POROSITY =	.2391
		SOLIDS=54.6	VOID RATIO=	.3142
61	2/ 2	H2O =31.3	POROSITY =	.1468
		SOLIDS=68.7	VOID RATIO=	.1721
61	2/ 2	H2O =50.7	POROSITY =	.2795
		SOLIDS=49.3	VOID RATIO=	.3879

CRUISE- 76 STATION- 3

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	3	61	76 3 16	1026	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	60	1/ 2	O-G	=	.48
1	60	1/ 2	O-G	=	.78
2	61	2/ 2	O-G	=	.79
1	61	2/ 2	O-G	=	.66

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	4	66	76 3 16	1037	122 21.35	47 35.46

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
2	66	1/ 2	2.18	8.36	31.00	85.00	50.31	39.47	216.31
1	66	1/ 2	12.28	127.36	245.50	294.36	112.78	73.40	865.68
2	65	2/ 2	.01*	4.61	30.73	96.86	57.78	33.90	223.89
1	65	2/ 2	23.08	131.62	250.19	248.59	93.75	74.08	821.31

TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER

2	66	1/ 2	.03	1.38	5.38	11.77	3.80	.01	22.38
1	66	1/ 2	6.45	24.24	22.72	10.33	.02	.02	63.77
2	65	2/ 2	.02	.67	1.79	3.83	2.19	.01*	8.50
1	65	2/ 2	.02	29.08	53.25	33.25	7.73	.41	123.73

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =36.0	POROSITY = .1749
			SOLIDS=64.0	VOID RATIO= .2119
1	66	1/ 2	H2O =49.2	POROSITY = .2677
			SOLIDS=50.8	VOID RATIO= .3656
2	65	2/ 2	H2O =38.6	POROSITY = .1915
			SOLIDS=61.4	VOID RATIO= .2369
1	65	2/ 2	H2O =49.4	POROSITY = .2691
			SOLIDS=50.6	VOID RATIO= .3681

CRUISE- 76 STATION- 4

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	4	65	76	3	16	1046	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	66	1/ 2	O-G	=	.88
1	66	1/ 2	O-G	=	.80
2	65	2/ 2	O-G	=	.92
1	65	2/ 2	O-G	=	.65

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	5	58	76 3 16	1058	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
2	58	1/ 2	15.58	123.98	196.56	202.19	66.41	33.15	637.87
1	58	1/ 2	19.07	369.85	584.58	498.65	146.54	43.10	1661.80
2	59	2/ 2	.01	19.39	97.49	202.12	62.73	68.03	449.79
1	59	2/ 2	16.94	159.99	293.75	256.57	57.49	25.73	810.47
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
2	58	1/ 2	.06	4.94	52.24	48.13	13.51	2.77	121.66
1	58	1/ 2	.03	28.14	37.30	40.51	12.79	3.03	121.80
2	59	2/ 2	.03	4.79	2.48	8.41	3.12	.01	18.85

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	58	1/ 2	H2O =38.5 SOLIDS=61.5	POROSITY = .1909 VOID RATIO= .2359
1	58	1/ 2	H2O =49.7 SOLIDS=50.3	POROSITY = .2720 VOID RATIO= .3736
2	59	2/ 2	H2O =35.9 SOLIDS=64.1	POROSITY = .1744 VOID RATIO= .2113
1	59	2/ 2	H2O =33.7 SOLIDS=66.3	POROSITY = .1608 VOID RATIO= .1916

CRUISE- 76 STATION- 5

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	5	57	76 3 16	1105	122 21.49	47 35.43

DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

58	1/ 2	O-G	=	.67
58	1/ 2	O-G	=	.88
59	2/ 2	O-G	=	4.38
59	2/ 2	O-G	=	.72

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	6	1	76 3 16	1200	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.24	.43	.35	.06	.00*	1.08
2	50	1/ 2	.00*	.11	.14	.11	.00*	.00*	.36
3	59	1/ 2	.00*	.71	.96	.73	.10	.00*	2.50
1	1	2/ 2	.00*	.78	.80	.74	.15	.00*	2.47
2	50	2/ 2	.00*	.25	.64	.59	.05	.00*	1.53
3	59	2/ 2	.00*	.91	.52	.26	.11	.00*	1.79
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.53	.76	.76	.22	.24	2.51
2	50	1/ 2	.00*	1.00	1.02	.84	.17	.23	3.26
3	59	1/ 2	.00*	.17	.29	.22	.10	.09	.87
1	1	2/ 2	.00*	1.26	.72	.69	.14	.10	2.91
2	50	2/ 2	.00*	.83	.80	.46	.17	.05	2.33
3	59	2/ 2	.00*	.99	.66	.54	.11	.08	2.38
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	59	1/ 2	1.81	9.99	58.55	126.93	50.48	31.71	279.46
1	59	1/ 2	8.89	52.55	79.73	51.39	9.71	3.71	205.98
2	59	2/ 2	26.02	172.12	276.67	307.18	97.23	38.50	917.73

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	6	59	76 3 16	1120	122 21.44	47 35.43

C	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

59	2/ 2	9.38	385.15	802.25	760.71	208.22	61.36	2227.10

TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER

59	1/ 2	.05	1.91	16.59	19.01	8.03	1.68	47.27
59	1/ 2	.06	12.07	65.51	38.12	13.53	.02	129.32
59	2/ 2	.04	10.22	15.80	21.55	5.70	.02	53.33
59	2/ 2	7.32	45.14	123.08	96.29	16.77	7.22	295.82

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

59	1/ 2	H2O =38.2	POROSITY =	.1889
		SOLIDS=61.8	VOID RATIO=	.2329
59	1/ 2	H2O =59.5	POROSITY =	.3568
		SOLIDS=40.5	VOID RATIO=	.5548
59	2/ 2	H2O =36.6	POROSITY =	.1791
		SOLIDS=63.4	VOID RATIO=	.2181
59	2/ 2	H2O =43.0	POROSITY =	.2217
		SOLIDS=57.0	VOID RATIO=	.2848

CRUISE- 76 STATION- 6

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	6	59	76	3	16	1113	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	59	1/ 2	O-G	= 1.15
1	59	1/ 2	O-G	= 1.55
2	59	2/ 2	O-G	= .82
1	59	2/ 2	O-G	= .98

CRUISE- 76 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	7	61	76 3 16	1134	122 21.40	47 35.43

C	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
YPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
	61	1/ 2	59.38	413.47	975.51	1121.60	379.03	108.05	3057.10
	61	1/ 2	65.47	340.61	717.27	741.25	204.92	99.28	2168.80
	62	2/ 2	51.36	349.34	842.63	834.05	290.65	76.21	2444.20
	62	2/ 2	27.88	235.70	466.61	409.87	93.41	45.14	1278.60
YPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
	61	1/ 2	.03	21.39	46.68	48.66	13.12	4.65	134.54
	61	1/ 2	.03	52.29	77.22	41.22	10.07	4.47	185.30
	62	2/ 2	.03	33.01	47.99	43.37	14.78	.01	139.20
	62	2/ 2	16.30	64.53	99.46	69.79	13.52	5.74	269.34

YPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

61	1/ 2	H2O =42.5	POROSITY =	.2179
		SOLIDS=57.5	VOID RATIO=	.2786
61	1/ 2	H2O =54.5	POROSITY =	.3110
		SOLIDS=45.5	VOID RATIO=	.4513
62	2/ 2	H2O =42.4	POROSITY =	.2175
		SOLIDS=57.6	VOID RATIO=	.2779
62	2/ 2	H2O =48.2	POROSITY =	.2596
		SOLIDS=51.8	VOID RATIO=	.3506

CRUISE- 76 STATION- 7

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	7	62	76	3	16	1142	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 1/ 2 O-G = 1.58
1 61 1/ 2 O-G = 1.71
2 62 2/ 2 O-G = 1.43
1 62 2/ 2 O-G = .89

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	8	63	76 3 16	1156	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
2	63	1/ 2	5.84	18.82	59.58	124.21	70.75	52.60	331.80
1	63	1/ 2	11.20	64.98	115.93	96.04	17.99	9.51	315.64
2	64	2/ 2	3.60	15.48	79.38	141.54	71.59	60.66	372.25
1	64	2/ 2	34.06	232.64	332.51	240.17	55.23	23.96	918.56
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	63	1/ 2	.04	12.03	27.71	31.87	12.92	3.26	87.83
2	64	2/ 2	.03	23.80	44.68	43.09	23.35	.01	134.97
1	64	2/ 2	.06	11.47	30.09	36.11	13.02	.02	90.77

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

63	1/ 2	H2O =32.2	POROSITY =	.1517
		SOLIDS=67.8	VOID RATIO=	.1788
63	1/ 2	H2O =47.6	POROSITY =	.2555
		SOLIDS=52.4	VOID RATIO=	.3432
64	2/ 2	H2O =35.1	POROSITY =	.1696
		SOLIDS=64.9	VOID RATIO=	.2042
64	2/ 2	H2O =49.1	POROSITY =	.2667
		SOLIDS=50.9	VOID RATIO=	.3638

CRUISE- 76 STATION- 8

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	8	64	76	3	16	1206	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	63	1/ 2	O-G	= .38
1	63	1/ 2	O-G	= .75
2	64	2/ 2	O-G	= 1.12
1	64	2/ 2	O-G	= .74

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	9	58	76 3 16	1248	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	58	1/ 2	.02	8.14	68.81	334.39	292.45	252.67	956.48
1	58	1/ 2	23.48	246.46	398.43	386.11	124.10	32.60	1211.20
2	58	2/ 2	49.99	165.88	201.57	235.25	101.97	62.08	816.74
1	58	2/ 2	52.76	334.51	720.72	899.78	276.85	101 33	2386.00
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	58	1/ 2	.04	22.57	20.46	35.16	17.48	.02	95.73
1	58	1/ 2	.04	.05	7.01	13.06	8.31	.01	28.49
2	58	2/ 2	.10	6.20	25.64	29.59	11.17	.04	72.75
1	58	2/ 2	.02	40.94	58.10	42.12	8.84	5.34	155.36

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	58	1/ 2	H2O =31.5	POROSITY =	.1476
			SOLIDS=68.5	VOID RATIO=	.1732
1	58	1/ 2	H2O =49.9	POROSITY =	.2730
			SOLIDS=50.1	VOID RATIO=	.3756
2	58	2/ 2	H2O =37.1	POROSITY =	.1822
			SOLIDS=62.9	VOID RATIO=	.2229
1	58	2/ 2	H2O =50.8	POROSITY =	.2807
			SOLIDS=49.2	VOID RATIO=	.3902

CRUISE- 76 STATION- 9

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	9	58	76 3 16	1257	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	58	1/ 2 O-G	=	.57
1	58	1/ 2 O-G	=	.88
2	58	2/ 2 O-G	=	.65
1	58	2/ 2 O-G	=	.76

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	10	1	76 3 16	1326	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.36	3.41	2.39	.24	.00*	6.40
2	50	1/ 2	.00*	.32	.51	.51	.13	.00*	1.46
3	59	1/ 2	.00*	.08	.78	.94	.20	.00*	2.00
1	1	2/ 2	.00*	1.28	1.79	1.10	.07	.00*	4.24
3	59	2/ 2	.00*	.98	.77	.53	.13	.00*	2.43
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.63	.76	1.03	.31	.22	2.96
2	50	1/ 2	.00*	.48	.66	.74	.15	.20	2.24
3	59	1/ 2	.00*	.81	.80	.78	.20	.09	2.69
1	1	2/ 2	.00*	.32	.61	.72	.24	.15	2.04
2	50	2/ 2	.00*	.43	.93	.62	.14	.08	2.21
3	59	2/ 2	.00*	.45	.63	.60	.13	.11	1.92
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	58	1/ 2	40.40	270.77	475.15	355.89	77.70	36.11	1256.00
1	58	1/ 2	77.61	460.84	989.31	1121.00	342.04	102.06	3092.80
2	58	2/ 2	59.47	365.79	749.63	727.92	203.13	68.18	2174.10
1	58	2/ 2	27.56	319.00	686.50	653.91	167.11	64.05	1918.20

CRUISE- 76 STATION- 10

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	10	58	76 3 16	1311	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
2	58	1/ 2	.05	18.40	18.41	21.35	5.70	.02	63.93
1	58	1/ 2	.02	1964.70	2271.00	388.95	25.16	6.28	4656.10
2	58	2/ 2	.04	13.78	12.22	11.49	2.51	.02	40.06
1	58	2/ 2	.04	68.30	83.70	47.55	12.05	4.84	216.47

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	58	1/ 2	H2O =41.2	POROSITY =	.2094
			SOLIDS=58.8	VOID RATIO=	.2649
1	58	1/ 2	H2O =52.0	POROSITY =	.2903
			SOLIDS=48.0	VOID RATIO=	.4090
2	58	2/ 2	H2O =43.5	POROSITY =	.2251
			SOLIDS=56.5	VOID RATIO=	.2905
1	58	2/ 2	H2O =45.4	POROSITY =	.2386
			SOLIDS=54.6	VOID RATIO=	.3134

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	58	1/ 2	O-G	= 1.14
1	58	1/ 2	O-G	= .97
2	58	2/ 2	O-G	= 1.12

CRUISE- 76 STATION- 10

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	10	58	76	3	16	1311	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 58 2/ 2 O-G = .98

CRUISE- 76 STATION- 10

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	11	64	76 3 16	1319	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	102.14	525.45	906.33	752.39	256.30	53.14	2595.80
1	64	1/ 2	111.65	529.72	1142.50	1564.10	499.84	251.48	4099.30
2	64	2/ 2	59.42	235.62	371.93	440.61	164.52	70.06	1342.20
1	64	2/ 2	58.56	345.33	800.20	961.64	282.73	120.35	2568.80
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	64	1/ 2	.04	75.99	105.68	62.37	16.06	8.92	269.04
1	64	1/ 2	.04	49.77	53.38	37.15	7.21	2.28	149.84
2	64	2/ 2	.04	24.05	83.09	65.39	17.34	11.50	201.42
1	64	2/ 2	.04	22.59	52.78	57.32	11.25	.02	143.99

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =43.0	POROSITY =	.2219
			SOLIDS=57.0	VOID RATIO=	.2852
1	64	1/ 2	H2O =52.8	POROSITY =	.2968
			SOLIDS=47.2	VOID RATIO=	.4221
2	64	2/ 2	H2O =39.9	POROSITY =	.2002
			SOLIDS=60.1	VOID RATIO=	.2502
1	64	2/ 2	H2O =47.2	POROSITY =	.2525
			SOLIDS=52.8	VOID RATIO=	.3378

CRUISE- 76 STATION- 11

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	11	64	76	3	16	1342	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	64	1/ 2 O-G	= 1.19
1	64	1/ 2 O-G	= 1.69
2	64	2/ 2 O-G	= .77
1	64	2/ 2 O-G	= 1.32

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	12	64	76 3 16	1350	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	.01*	7.68	43.54	104.75	49.22	31.27	236.48
1	64	1/ 2	73.45	346.40	576.83	485.11	110.57	45.51	1637.90
2	64	2/ 2	.01*	13.08	76.80	151.09	54.57	31.20	326.76
1	64	2/ 2	67.97	331.99	627.64	651.88	203.25	57.48	1940.20
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	64	1/ 2	.09	19.69	68.28	75.09	63.87	17.62	244.66
1	64	1/ 2	23.16	51.94	82.50	37.21	10.93	3.35	209.09
2	64	2/ 2	.07	16.49	76.21	55.35	26.36	.03	174.50
1	64	2/ 2	21.20	75.71	80.71	47.90	9.19	.02	234.72

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =25.9		POROSITY =	.1163
			SOLIDS=74.1		VOID RATIO=	.1316
1	64	1/ 2	H2O =56.3		POROSITY =	.3274
			SOLIDS=43.7		VOID RATIO=	.4868
2	64	2/ 2	H2O =33.1		POROSITY =	.1574
			SOLIDS=66.9		VOID RATIO=	.1867
1	64	2/ 2	H2O =53.5		POROSITY =	.3030
			SOLIDS=46.5		VOID RATIO=	.4348

CRUISE- 76 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	12	64	76 3 16	1357	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	64	1/ 2	O-G	= .46
1	64	1/ 2	O-G	= 1.17
2	64	2/ 2	O-G	= .50
1	64	2/ 2	O-G	= .91

CRUISE- 76 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	13	56	76 3 16	1404	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	56	1/ 2	8.80	57.62	152.35	232.76	75.98	39.05	566.57
1	56	2/ 2	12.59	115.75	219.61	256.04	89.12	46.04	739.14
2	56	2/ 2	6.29	51.91	117.13	201.46	148.28	132.91	657.99
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	56	1/ 2	.03	33.41	60.16	74.57	20.38	10.90	199.45
2	56	2/ 2	.19	179.68	284.86	163.58	48.57	50.77	727.65

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	56	1/ 2	H2O =41.9	POROSITY =	.2141
			SOLIDS=58.1	VOID RATIO=	.2725
1	56	2/ 2	H2O =33.7	POROSITY =	.1612
			SOLIDS=66.3	VOID RATIO=	.1922
2	56	2/ 2	H2O =22.2	POROSITY =	.0972
			SOLIDS=77.8	VOID RATIO=	.1076

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	13	56	76 3 16	1404	122 21.49	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	56	1/ 2 O-G	=	.55
1	56	2/ 2 O-G	=	.69
2	56	2/ 2 O-G	=	.56

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	14	58	76 3 16	1429	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	58	1/ 2	11.24	92.02	135.86	208.55	95.43	66.55	609.65
1	58	1/ 2	20.92	258.34	461.82	466.91	137.89	38.71	1384.60
1	58	2/ 2	25.90	219.27	428.61	388.20	99.30	44.40	1205.70
2	58	2/ 2	2.57	16.66	55.96	139.26	86.49	70.34	371.28
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	58	1/ 2	.03	61.17	46.66	24.11	3.67	1.11	136.75
1	58	2/ 2	.02	111.65	108.48	58.02	7.25	5.16	290.58

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	58	1/ 2	H2O =36.2	POROSITY =	.1766
			SOLIDS=63.8	VOID RATIO=	.2145
1	58	1/ 2	H2O =26.7	POROSITY =	.1206
			SOLIDS=73.3	VOID RATIO=	.1372
1	58	2/ 2	H2O =34.5	POROSITY =	.1655
			SOLIDS=65.5	VOID RATIO=	.1984
2	58	2/ 2	H2O =29.7	POROSITY =	.1373
			SOLIDS=70.3	VOID RATIO=	.1592

CRUISE- 76 STATION- 14

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	15	59	76 3 16	1445	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
2	59	1/ 2	.00*	2.00	12.73	30.48	11.47	6.84	63.52
1	59	1/ 2	6.78	54.27	128.04	160.45	54.01	32.64	436.19
2	59	2/ 2	.01*	3.51	30.62	82.86	31.04	18.60	166.64
1	59	2/ 2	9.06	114.15	219.42	373.27	200.81	143.49	1060.20
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
2	59	2/ 2	.07	33.87	8.39	18.86	.03	.04	61.26
1	59	2/ 2	.07	107.80	87.07	49.88	15.71	4.66	265.20

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	59	1/ 2	H2O =24.7	POROSITY =	.1102
			SOLIDS=75.3	VOID RATIO=	.1238
1	59	1/ 2	H2O =33.7	POROSITY =	.1608
			SOLIDS=66.3	VOID RATIO=	.1916
2	59	2/ 2	H2O =21.3	POROSITY =	.0929
			SOLIDS=78.7	VOID RATIO=	.1024
1	59	2/ 2	H2O =39.7	POROSITY =	.1991
			SOLIDS=60.3	VOID RATIO=	.2485

CRUISE- 76 STATION- 15

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	14	58	76 3 16	1429	122 21.44	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	58	1/ 2 O-G	=	.65
1	58	1/ 2 O-G	=	.66
1	58	2/ 2 O-G	=	1.05
2	58	2/ 2 O-G	=	.44

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	15	59	76 3 16	1445	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	59	1/ 2	O-G	=	.39
1	59	1/ 2	O-G	=	.38
2	59	2/ 2	O-G	=	.53
1	59	2/ 2	O-G	=	.67

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	16	62	76 3 16	1514	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	62	1/ 2	17.00	113.26	281.40	336.16	106.00	59.96	913.77
2	62	1/ 2	1.72	10.76	195.68	425.75	118.51	36.23	788.65
1	62	2/ 2	16.23	137.32	272.50	300.20	87.80	43.40	857.44
2	62	2/ 2	.53	2.36	57.26	135.08	34.50	12.96	242.69
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	62	1/ 2	.04	31.14	15.94	22.94	4.68	.02	74.75
1	62	2/ 2	.03	27.36	34.45	16.94	4.36	.01*	83.15
2	62	2/ 2	.19	14.80	75.95	133.78	66.23	13.94	304.88

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	62	1/ 2	H2O =49.8	POROSITY =	.2725
			SOLIDS=50.2	VOID RATIO=	.3745
2	62	1/ 2	H2O =19.6	POROSITY =	.0841
			SOLIDS=80.4	VOID RATIO=	.0918
1	62	2/ 2	H2O =50.9	POROSITY =	.2813
			SOLIDS=49.1	VOID RATIO=	.3915
2	62	2/ 2	H2O =22.7	POROSITY =	.1000
			SOLIDS=77.3	VOID RATIO=	.1111

CRUISE- 76 STATION- 16

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	16	62	76 3 16	1519	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	62	1/ 2	O-G	=	.79
2	62	1/ 2	O-G	=	.38
1	62	2/ 2	O-G	=	.75
2	62	2/ 2	O-G	=	.15

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	17	1	76 3 16	1015	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.38	.56	.41	.03	.00*	1.38
1	1	2/ 2	.00*	.28	.76	.61	.14	.00*	1.79
2	50	1/ 2	.00*	.13	.40	.32	.02	.00*	.87
3	59	1/ 2	.00*	.21	.19	.12	.00*	.00*	.52
2	50	2/ 2	.00*	.33	.64	.68	.07	.00*	1.72
3	59	2/ 2	.00*	.77	3.21	2.33	.07	.00*	6.38
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	59	1/ 2	.00*	.61	3.08	6.65	2.37	1.26	13.98
1	59	1/ 2	.00*	1.13	7.20	21.82	10.90	8.37	49.43
2	61	2/ 2	.00*	.80	3.15	6.89	2.31	1.93	15.08
1	61	2/ 2	.00*	1.79	15.84	47.70	22.54	15.20	103.08
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	59	1/ 2	.03	14.75	27.33	36.87	13.97	3.96	96.91

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	17	59	76 3 16	1621	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	59	1/ 2	H2O =24.3	POROSITY =	.1079
			SOLIDS=75.7	VOID RATIO=	.1209
1	59	1/ 2	H2O =37.6	POROSITY =	.1852
			SOLIDS=62.4	VOID RATIO=	.2273
2	61	2/ 2	H2O =27.7	POROSITY =	.1262
			SOLIDS=72.3	VOID RATIO=	.1444
1	61	2/ 2	H2O =39.8	POROSITY =	.2000
			SOLIDS=60.2	VOID RATIO=	.2500

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	59	1/ 2	O-G =	.14
1	59	1/ 2	O-G =	.28
2	61	2/ 2	O-G =	.14
1	61	2/ 2	O-G =	.30

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	18	57	76 3 16	1633	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	57	1/ 2	.00*	.52	2.44	11.95	5.82	4.09	24.82
1	57	1/ 2	.00*	2.17	19.52	52.99	25.14	15.49	115.32
2	62	2/ 2	.00*	.29	1.07	2.55	1.00	.44	5.34
1	62	2/ 2	.00*	1.33	12.19	35.36	17.42	12.30	78.60
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	57	1/ 2	.02	17.24	23.87	32.49	23.61	6.87	104.09
1	62	2/ 2	.01	11.20	16.11	37.03	15.44	9.20	89.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	57	1/ 2	H2O =28.4	POROSITY =	.1301
			SOLIDS=71.6	VOID RATIO=	.1496
1	57	1/ 2	H2O =43.9	POROSITY =	.2280
			SOLIDS=56.1	VOID RATIO=	.2953
2	62	2/ 2	H2O =27.0	POROSITY =	.1226
			SOLIDS=73.0	VOID RATIO=	.1398
1	62	2/ 2	H2O =43.9	POROSITY =	.2279
			SOLIDS=56.1	VOID RATIO=	.2952

CRUISE- 76 STATION- 18

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	18	57	76 3 16	1633	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	57	1/ 2	O-G	=	.28
1	57	1/ 2	O-G	=	.38
2	62	2/ 2	O-G	=	.12
1	62	2/ 2	O-G	=	.34

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	19	1	76	3	16	746	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.40	1.12	.99	.37	.00*	2.89
2	50	1/ 2	.00*	.45	.63	.63	.18	.00*	1.87
3	59	1/ 2	.00*	1.18	1.58	1.41	.33	.10	4.60
1	1	2/ 2	.00*	1.75	1.90	1.10	.18	.00*	4.93
2	50	2/ 2	.00*	.20	.33	.27	.01	.00*	.82
3	59	2/ 2	.00*	.67	2.04	1.68	.38	.00*	4.77
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	51	1/ 2	.01*	7.17	51.05	163.58	80.91	59.23	361.95
2	51	1/ 2	.00*	1.33	3.48	12.18	6.74	4.62	28.36
2	53	2/ 2	.00*	1.27	5.20	20.15	11.91	10.73	49.27
1	53	2/ 2	.00*	6.32	50.20	160.92	83.07	59.01	359.53
TYPE: INTERSTITIAL WATERS				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	51	1/ 2	.04	2.48	21.17	74.64	41.14	31.41	170.88
1	53	2/ 2	.02	5.03	8.81	15.55	2.50	.24	33.15

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	19	51	76 3 16	1536	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	51	1/ 2	H2O =45.9	POROSITY = .2424
			SOLIDS=54.1	VOID RATIO= .3200
2	51	1/ 2	H2O =39.4	POROSITY = .1970
			SOLIDS=60.6	VOID RATIO= .2453
3	53	2/ 2	H2O =39.5	POROSITY = .1979
			SOLIDS=60.5	VOID RATIO= .2467
4	53	2/ 2	H2O =57.0	POROSITY = .3337
			SOLIDS=43.0	VOID RATIO= .5009

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

51	1/ 2	O-G	= 1.50
51	1/ 2	O-G	= .60
53	2/ 2	O-G	= 1.24
53	2/ 2	O-G	= 1.52

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	20	54	76 3 16	1550	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	54	1/ 2	.00*	.80	6.09	21.50	10.15	7.85	46.40
2	54	1/ 2	.00*	.66	1.48	2.96	.64	.37	6.10
1	48	2/ 2	.01*	6.42	35.57	89.55	44.73	28.23	204.51
2	48	2/ 2	.00*	1.62	3.90	10.25	3.77	3.08	22.62
TYPE: INTERSTITIAL WATERS WITH UNITS:PICOGRAMS NCB PER GM ML WATER									
1	54	1/ 2	.02	3.90	21.62	32.83	8.59	6.07	73.03
1	48	2/ 2	.02	3.67	1.11	5.07	3.14	.01*	13.03

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	54	1/ 2	H2O =46.5	POROSITY = .2468
			SOLIDS=53.5	VOID RATIO= .3277
2	54	1/ 2	H2O =27.1	POROSITY = .1229
			SOLIDS=72.9	VOID RATIO= .1401
1	48	2/ 2	H2O =51.1	POROSITY = .2825
			SOLIDS=48.9	VOID RATIO= .3937
2	48	2/ 2	H2O =28.9	POROSITY = .1328
			SOLIDS=71.1	VOID RATIO= .1531

CRUISE- 76 STATION- 20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	20	54	76 3 16	1550	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	54	1/ 2	O-G	= .81
2	54	1/ 2	O-G	= .26
1	48	2/ 2	O-G	= 1.46
2	48	2/ 2	O-G	= 1.29

CRUISE- 76 STATION- 20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
76	44	1	76 3 16	906	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
	1	1/ 2	.00*	3.87	3.53	2.37	.22	.00*	9.98
	24	1/ 2	.00*	.49	1.17	1.03	.19	.00*	2.87
	33	1/ 2	.00*	1.00	1.70	1.48	.38	.00*	4.57
	1	2/ 2	.00*	3.01	1.22	.93	.10	.00*	5.26
	33	2/ 2	.00*	.86	1.09	1.13	.29	.00*	3.37
	24	2/ 2	.00*	.40	1.19	1.17	.37	.00*	3.13

CRUISE- 76 STATION- 44

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	1	62	76 4 8	842	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	62	1/ 2	36.11	186.50	411.21	418.25	112.80	58.79	1223.70
2	62	1/ 2	.00*	3.57	24.88	78.75	41.19	29.52	177.91
1	61	2/ 2	24.17	233.73	484.53	525.19	165.36	56.62	1489.60
2	61	2/ 2	.00*	7.61	29.61	73.11	33.75	23.01	167.08

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	62	1/ 2	H2O =52.0	POROSITY =	.2904
			SOLIDS=48.0	VOID RATIO=	.4092
2	62	1/ 2	H2O =32.4	POROSITY =	.1531
			SOLIDS=67.6	VOID RATIO=	.1807
1	61	2/ 2	H2O =45.2	POROSITY =	.2377
			SOLIDS=54.7	VOID RATIO=	.3119
2	61	2/ 2	H2O =30.9	POROSITY =	.1445
			SOLIDS=69.1	VOID RATIO=	.1689

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	62	1/ 2	O-G =	.85
2	62	1/ 2	O-G =	.57
1	61	2/ 2	O-G =	.77

CRUISE- 99 STATION- 1

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	1	61	76	4	8	857	122 21.49	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 2/ 2 O-G = .66

CRUISE- 99 STATION- 1

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	2	61	76	4	8	904	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	61	1/ 2	33.93	337.05	524.56	449.29	104.35	52.89	1502.10
2	61	1/ 2	.00*	6.27	27.55	68.41	32.23	30.03	164.49
1	61	2/ 2	22.79	282.29	426.91	416.63	107.48	39.45	1295.50
2	61	2/ 2	.00*	6.64	21.55	55.88	19.24	15.52	118.83

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	61	1/ 2	H2O =50.6	POROSITY =	.2789
			SOLIDS=49.4	VOID RATIO=	.3868
2	61	1/ 2	H2O =31.6	POROSITY =	.1482
			SOLIDS=68.4	VOID RATIO=	.1741
1	61	2/ 2	H2O =43.8	POROSITY =	.2273
			SOLIDS=56.2	VOID RATIO=	.2942
2	61	2/ 2	H2O =32.5	POROSITY =	.1535
			SOLIDS=67.5	VOID RATIO=	.1814

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	61	1/ 2	O-G	= 1.40
2	61	1/ 2	O-G	= .00
1	61	2/ 2	O-G	= .00

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	2	61	76	4	8	909	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 2/ 2 O-G = .00

CRUISE- 99 STATION- 2

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	3	67	76	4	8	919	122 21.40	47 35.46

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
2	67	1/ 2	1.53	7.15	85.91	207.70	64.81	27.26	394.37
1	67	1/ 2	22.56	147.56	264.94	269.01	71.28	29.81	805.16
2	62	2/ 2	.00*	1.12	6.78	14.20	6.12	10.47	38.70
1	62	2/ 2	13.36	85.24	156.25	173.86	60.86	45.71	535.28

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	67	1/ 2	H2O =31.3	POROSITY =	.1469
			SOLIDS=68.7	VOID RATIO=	.1722
1	67	1/ 2	H2O =41.0	POROSITY =	.2076
			SOLIDS=59.0	VOID RATIO=	.2620
2	62	2/ 2	H2O =29.7	POROSITY =	.1378
			SOLIDS=70.3	VOID RATIO=	.1598
1	62	2/ 2	H2O =38.7	POROSITY =	.1924
			SOLIDS=61.3	VOID RATIO=	.2382

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	67	1/ 2	O-G =	.92
1	67	1/ 2	O-G =	.86
2	62	2/ 2	O-G =	1.25

CRUISE- 99 STATION- 3

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	3	62	76	4	8	920	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE NITS: MG OIL-GR PER GM DRY MASS

1 62 2/ 2 O-G = .00

CRUISE- 99 STATION- 3

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	4	68	76 4 8	932	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	68	1/ 2	.00*	4.24	22.18	58.00	34.40	28.61	147.42
1	68	1/ 2	10.13	75.59	135.56	149.55	60.58	44.08	475.49
1	67	2/ 2	33.20	179.69	326.75	333.25	102.06	61.19	1036.10
2	67	2/ 2	1.28	5.40	21.50	52.98	30.45	23.78	135.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	68	1/ 2	H2O =38.7	POROSITY =	.1923
			SOLIDS=61.3	VOID RATIO=	.2381
1	68	1/ 2	H2O =45.4	POROSITY =	.2390
			SOLIDS=54.6	VOID RATIO=	.3140
1	67	2/ 2	H2O =48.9	POROSITY =	.2656
			SOLIDS=51.1	VOID RATIO=	.3617
2	67	2/ 2	H2O =37.3	POROSITY =	.1835
			SOLIDS=62.7	VOID RATIO=	.2247

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	68	1/ 2	O-G =	.97
1	68	1/ 2	O-G =	.99
1	67	2/ 2	O-G =	1.24

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	4	67	76	4	8	936	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 67 2/ 2 O-G = 1.46

CRUISE- 99 STATION- 4

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	5	60	76 4 8	944	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	58.16	198.82	324.88	300.88	77.01	33.45	993.20
2	60	1/ 2	.00*	4.62	31.79	105.10	74.96	65.39	281.87
2	60	2/ 2	.01*	5.30	33.33	136.78	114.78	95.23	385.43
1	60	2/ 2	54.04	186.44	308.07	302.62	96.64	60.51	1008.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =46.2	POROSITY =	.2449
			SOLIDS=53.8	VOID RATIO=	.3243
2	60	1/ 2	H2O =32.9	POROSITY =	.1563
			SOLIDS=67.1	VOID RATIO=	.1852
2	60	2/ 2	H2O =27.5	POROSITY =	.1251
			SOLIDS=72.5	VOID RATIO=	.1430
1	60	2/ 2	H2O =52.3	POROSITY =	.2929
			SOLIDS=47.7	VOID RATIO=	.4143

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G =	.91
2	60	1/ 2	O-G =	.74
2	60	2/ 2	O-G =	.48

CRUISE- 99 STATION- 5

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	5	60	76	4	8	955	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 60 2/ 2 O-G = .85

CRUISE- 99 STATION- 5

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	6	1	76 4 8	16	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	1.76	.67	.94	.19	.08	3.63
2	52	1/ 2	.00*	.31	.83	1.16	.32	.05	2.68
3	60	1/ 2	.00*	3.98	8.23	6.74	1.10	.41	20.46
1	1	2/ 2	.00*	1.54	1.23	.91	.22	.00*	3.90
2	50	2/ 2	.00*	.35	1.04	.86	.31	.00*	2.56
3	60	2/ 2	.00*	1.20	1.65	1.30	.25	.00*	4.39
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.09	.29	.36	.19	.21	1.13
2	52	1/ 2	.00*	.10	.17	.27	.12	.10	.76
3	60	1/ 2	.00*	1.49	6.42	5.57	1.78	1.55	16.80
1	1	2/ 2	.00*	.29	.83	.48	.17	.19	1.96
2	50	2/ 2	.00*	.47	1.39	.62	.15	.15	2.78
3	59	2/ 2	.00*	.38	.98	.68	.22	.40	2.66
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	61	1/ 2	44.47	179.65	288.95	273.27	84.69	44.19	915.21
2	61	1/ 2	.02	4.85	52.23	348.97	343.93	397.50	1147.50
3	61	2/ 2	.00*	2.74	24.36	76.30	40.47	26.60	170.48

CRUISE- 99 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	6	61	76 4 8	1008	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
1	61	2/ 2	83.81	313.26	548.71	658.54	180.09	71.18	1855.60

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	61	1/ 2	H2O =43.2	POROSITY =	.2232
			SOLIDS=56.8	VOID RATIO=	.2873
2	61	1/ 2	H2O =28.1	POROSITY =	.1288
			SOLIDS=71.9	VOID RATIO=	.1478
2	61	2/ 2	H2O =32.5	POROSITY =	.1540
			SOLIDS=67.5	VOID RATIO=	.1820
1	61	2/ 2	H2O =33.4	POROSITY =	.1594
			SOLIDS=66.6	VOID RATIO=	.1896

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	61	1/ 2	O-G =	2.19
2	61	1/ 2	O-G =	.32
2	61	2/ 2	O-G =	.55
1	61	2/ 2	O-G =	.69

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	7	66	76 4 8	1016	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	52.13	284.05	547.83	637.24	195.12	58.34	1774.70
1	66	1/ 2	71.76	335.70	581.97	522.24	126.90	56.41	1695.00
2	63	2/ 2	70.98	522.83	958.71	749.09	160.86	67.93	2530.40
1	63	2/ 2	65.43	495.49	933.06	710.11	153.12	73.29	2430.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =35.9	POROSITY =	.1744
			SOLIDS=64.1	VOID RATIO=	.2112
1	66	1/ 2	H2O =54.9	POROSITY =	.3146
			SOLIDS=45.1	VOID RATIO=	.4591
2	63	2/ 2	H2O =46.8	POROSITY =	.2492
			SOLIDS=53.2	VOID RATIO=	.3319
1	63	2/ 2	H2O =57.9	POROSITY =	.3418
			SOLIDS=42.1	VOID RATIO=	.5192

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	66	1/ 2	O-G	= .84
1	66	1/ 2	O-G	= 1.17
2	63	2/ 2	O-G	= 2.44

CRUISE- 99 STATION- 7

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	7	63	76	4	8	1027	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 63 2/ 2 O-G = 2.75

CRUISE- 99 STATION- 7

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	8	66	76 4 8	1035	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	1.46	62.68	161.89	100.33	44.20	34.34	404.88
1	66	1/ 2	36.94	216.92	396.97	390.17	90.41	46.83	1178.20
2	66	2/ 2	.00*	9.51	50.08	129.21	58.25	40.89	287.96
1	66	2/ 2	11.50	137.60	222.78	203.23	59.54	17.07	651.72

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =31.4	POROSITY =	.1471
			SOLIDS=68.6	VOID RATIO=	.1725
1	66	1/ 2	H2O =45.6	POROSITY =	.2400
			SOLIDS=54.4	VOID RATIO=	.3158
2	66	2/ 2	H2O =36.8	POROSITY =	.1799
			SOLIDS=63.2	VOID RATIO=	.2194
1	66	2/ 2	H2O =49.4	POROSITY =	.2695
			SOLIDS=50.6	VOID RATIO=	.3689

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	66	1/ 2	O-G	= .93
1	66	1/ 2	O-G	= 1.16
2	66	2/ 2	O-G	= 1.06

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	8	66	76 4 8	1041	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 66 2/ 2 O-G * .95

CRUISE- 99 STATION- 8

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	9	60	76 4 8	1048	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	60	1/ 2	33.45	106.21	154.17	180.82	72.03	47.38	594.06
1	60	1/ 2	72.81	457.13	872.45	1043.60	295.90	95.84	2837.80
1	59	2/ 2	28.48	259.11	479.12	492.86	152.49	49.51	1461.60
2	59	2/ 2	.01*	6.44	40.56	151.93	117.94	105.61	422.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	60	1/ 2	H2O =36.5	POROSITY =	.1784
			SOLIDS=63.5	VOID RATIO=	.2172
1	60	1/ 2	H2O =49.9	POROSITY =	.2735
			SOLIDS=50.1	VOID RATIO=	.3764
1	59	2/ 2	H2O =50.4	POROSITY =	.2769
			SOLIDS=49.6	VOID RATIO=	.3830
2	59	2/ 2	H2O =27.9	POROSITY =	.1272
			SOLIDS=72.1	VOID RATIO=	.1457

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	60	1/ 2	O-G =	.67
1	60	1/ 2	O-G =	1.03
1	59	2/ 2	O-G =	1.13

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	9	59	76	4	8	1054	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 59 2/ 2 O-G = .41

CRUISE- 99 STATION- 9

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	10	1	76 4 8	22	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.34	1.05	.98	.30	.04	2.72
2	50	1/ 2	.00*	.34	.81	.73	.18	.00*	2.06
3	59	1/ 2	.00*	.75	1.56	1.86	.28	.15	4.61
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.13	.42	.68	.32	.31	1.85
2	50	1/ 2	.00*	.21	.65	.33	.14	.10	1.42
3	59	1/ 2	.00*	.63	3.48	4.00	1.43	.87	10.41
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	59	1/ 2	31.62	202.63	557.02	731.61	211.12	67.99	1802.00
2	59	1/ 2	23.60	167.40	361.95	358.86	88.93	43.59	1044.30
1	59	2/ 2	51.34	295.56	490.48	465.15	125.88	66.21	1494.60
2	59	2/ 2	11.72	79.13	192.71	311.45	167.54	232.13	994.68

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	10	59	76	4	8	1101	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	59	1/ 2	H2O =42.4	POROSITY =	.2176
			SOLIDS=57.6	VOID RATIO=	.2781
2	59	1/ 2	H2O =39.8	POROSITY =	.1998
			SOLIDS=60.2	VOID RATIO=	.2498
1	59	2/ 2	H2O =40.4	POROSITY =	.2039
			SOLIDS=59.6	VOID RATIO=	.2562
2	59	2/ 2	H2O =35.9	POROSITY =	.1746
			SOLIDS=64.1	VOID RATIO=	.2116

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	59	1/ 2	O-G =	.95
2	59	1/ 2	O-G =	1.65
1	59	2/ 2	O-G =	.86
2	59	2/ 2	O-G =	.66

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	11	63	76	4	8	1112	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	63	1/ 2	61.75	459.52	1030.50	1063.80	275.12	91.35	2982.10
2	63	1/ 2	26.70	174.29	339.90	306.69	74.09	37.14	958.81
2	65	2/ 2	59.51	335.12	493.34	359.95	96.12	57.72	1401.80
1	65	2/ 2	86.40	809.21	1522.30	1116.20	220.66	92.19	3847.10

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	63	1/ 2	H2O =49.2	POROSITY =	.2675
			SOLIDS=50.8	VOID RATIO=	.3653
2	63	1/ 2	H2O =40.6	POROSITY =	.2054
			SOLIDS=59.4	VOID RATIO=	.2584
2	65	2/ 2	H2O =35.7	POROSITY =	.1731
			SOLIDS=64.3	VOID RATIO=	.2094
1	65	2/ 2	H2O =55.8	POROSITY =	.3230
			SOLIDS=44.2	VOID RATIO=	.4771

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	63	1/ 2	O-G	= 1.18
2	63	1/ 2	O-G	= 1.01
2	65	2/ 2	O-G	= .95

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	11	65	76	4	8	1117	122 21.40	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE - WITH UNITS: MG OIL-GR PER GM DRY MASS

1 65 2/ 2 O-G = 2.05

CRUISE- 99 STATION- 11

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	12	64	76	4	8	1124	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	.01*	10.86	48.04	146.33	70.84	39.01	315.08
1	64	1/ 2	46.76	322.86	657.45	692.46	234.23	154.07	2107.80
1	64	2/ 2	63.87	369.05	711.12	706.45	173.26	67.42	2091.20
2	64	2/ 2	6.91	53.58	105.80	100.69	26.76	19.97	313.71

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =30.6	POROSITY =	.1425
			SOLIDS=69.4	VOID RATIO=	.1662
1	64	1/ 2	H2O =51.5	POROSITY =	.2863
			SOLIDS=48.5	VOID RATIO=	.4011
1	64	2/ 2	H2O =74.4	POROSITY =	.5237
			SOLIDS=25.5	VOID RATIO=	1.0996
2	64	2/ 2	H2O =44.9	POROSITY =	.2350
			SOLIDS=55.1	VOID RATIO=	.3072

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	64	1/ 2	O-G =	.48
1	64	1/ 2	O-G =	1.02
1	64	2/ 2	O-G =	1.58

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	12	64	76	4	8	1134	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 64 2/ 2 O-G = .69

CRUISE- 99 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	13	56	76 4 6	1140	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	56	1/ 2	7.38	60.58	129.96	192.20	77.91	53.51	521.54
2	56	2/ 2	.01	3.25	34.06	119.63	74.67	62.74	294.35
1	56	2/ 2	23.12	114.02	249.47	287.27	92.06	47.92	813.86

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	56	1/ 2	H2O =38.2	POROSITY = .1889
			SOLIDS=61.8	VOID RATIO= .2329
2	56	2/ 2	H2O =23.8	POROSITY = .1054
			SOLIDS=76.2	VOID RATIO= .1178
1	56	2/ 2	H2O =44.6	POROSITY = .2331
			SOLIDS=55.4	VOID RATIO= .3040

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	56	1/ 2	O-G = 1.52
2	56	2/ 2	O-G = .41
1	56	2/ 2	O-G = 1.05

CRUISE- 99 STATION- 13

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	14	57	76	4	8	1153	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	57	1/ 2	.01	5.22	71.93	259.85	176.80	140.63	654.44
1	57	1/ 2	35.66	104.98	216.88	275.70	84.66	37.74	755.62
1	58	2/ 2	59.53	299.54	516.49	526.48	108.01	48.50	1558.60
2	58	2/ 2	9.81	57.86	102.14	153.43	70.05	61.27	454.55

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	57	1/ 2	H2O =32.2	POROSITY =	.1521
			SOLIDS=67.8	VOID RATIO=	.1793
1	57	1/ 2	H2O =36.5	POROSITY =	.1780
			SOLIDS=63.5	VOID RATIO=	.2165
1	58	2/ 2	H2O =48.5	POROSITY =	.2624
			SOLIDS=51.5	VOID RATIO=	.3558
2	58	2/ 2	H2O =36.5	POROSITY =	.1783
			SOLIDS=63.5	VOID RATIO=	.2171

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	57	1/ 2	O-G =	.86
1	57	1/ 2	O-G =	.44
1	58	2/ 2	O-G =	.96

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	14	58	76	4	8	1200	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 58 2/ 2 O-G = .63

CRUISE- 99 STATION- 14

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	15	61	76	4	8	1207	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	61	1/ 2	.00*	1.90	21.21	55.73	18.03	9.16	106.03
1	61	1/ 2	47.50	169.67	322.83	432.08	135.19	67.24	1174.50
2	58	2/ 2	.00*	10.21	35.87	86.32	42.70	35.46	210.56
1	58	2/ 2	54.79	257.45	419.90	319.00	66.35	46.71	1164.20

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	61	1/ 2	H2O =23.4	POROSITY = .1033
			SOLIDS=76.6	VOID RATIO= .1152
1	61	1/ 2	H2O =39.1	POROSITY = .1951
			SOLIDS=60.9	VOID RATIO= .2424
2	58	2/ 2	H2O =34.0	POROSITY = .1628
			SOLIDS=66.0	VOID RATIO= .1945
1	58	2/ 2	H2O =47.6	POROSITY = .2554
			SOLIDS=52.4	VOID RATIO= .3431

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	61	1/ 2	O-G =	.21
1	61	1/ 2	O-G =	.59
2	58	2/ 2	O-G =	.53

CRUISE- 99 STATION- 15

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	15	58	76	4	8	1212	122 21.40	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 58 2/ 2 O-G = .98

CRUISE- 99 STATION- 15

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	16	62	76	4	8	1223	122 21.35	47 35.37

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	62	1/ 2	.00*	1.76	32.36	98.47	35.96	19.93	188.49
1	62	1/ 2	19.14	112.86	261.68	348.22	105.73	57.18	904.80
1	62	2/ 2	9.09	78.38	201.42	278.18	84.23	41.88	693.18

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	62	1/ 2	H2O =31.7	POROSITY =	.1491
			SOLIDS=68.3	VOID RATIO=	.1753
1	62	1/ 2	H2O =43.4	POROSITY =	.2247
			SOLIDS=56.6	VOID RATIO=	.2898
	62	2/ 2	H2O =38.0	POROSITY =	.1877
			SOLIDS=62.0	VOID RATIO=	.2310

YPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

62	1/ 2	O-G	= 1.47
62	1/ 2	O-G	= 1.00
62	2/ 2	O-G	= .60

CRUISE- 99 STATION- 16

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	17	1	76	4	8	1	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.78	.52	.64	.18	.00*	2.12
2	57	1/ 2	.00*	.35	.47	.40	.05	.07	1.36
3	63	1/ 2	.00*	.22	.64	.70	.19	.00*	1.76
1	1	2/ 2	.00*	.67	1.16	1.11	.31	.00*	3.24
2	65	2/ 2	.00*	.52	.57	.59	.31	.03	2.01
3	75	2/ 2	.00*	.32	1.00	1.01	.19	.10	2.63
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.41	.87	.65	.21	.24	2.39
2	57	1/ 2	.00*	.19	.53	.39	.13	.12	1.36
3	63	1/ 2	.00*	.44	.75	.40	.13	.06	1.78
1	1	2/ 2	.00*	.63	.86	.33	.10	.08	1.99
2	65	2/ 2	.00*	.20	.38	.30	.08	.06	1.02
3	75	2/ 2	.00*	.08	.45	.38	.11	.16	1.18
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	.00*	3.01	11.31	34.11	15.25	8.96	72.65
2	60	1/ 2	.00*	2.34	4.62	16.47	6.10	4.07	33.60
2	53	2/ 2	.00*	.21	1.52	4.96	2.33	1.98	11.02

CRUISE- 99 STATION- 17

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	17	53	76	4	8	1310	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
1	53	2/ 2	.00*	1.99	14.09	39.59	17.40	11.94	85.02

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =31.4	POROSITY =	.1473
			SOLIDS=68.6	VOID RATIO=	.1728
2	60	1/ 2	H2O =24.7	POROSITY =	.1102
			SOLIDS=75.3	VOID RATIO=	.1239
2	53	2/ 2	H2O =28.1	POROSITY =	.1287
			SOLIDS=71.9	VOID RATIO=	.1477
1	53	2/ 2	H2O =35.1	POROSITY =	.1693
			SOLIDS=64.9	VOID RATIO=	.2038

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G =	.42
2	60	1/ 2	O-G =	.32
2	53	2/ 2	O-G =	.33
1	53	2/ 2	O-G =	.37

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	18	57	76 4 8	1317	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	57	1/ 2	.00*	.32	.79	3.26	1.50	1.48	7.34
1	57	1/ 2	.00*	1.63	12.84	40.19	21.25	13.35	89.26
2	59	2/ 2	.00*	.31	.71	1.99	.91	.29	4.22
1	59	2/ 2	4.43	8.32	12.02	33.10	22.69	16.28	96.84

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	57	1/ 2	H2O =30.0	POROSITY =	.1394
			SOLIDS=70.0	VOID RATIO=	.1619
1	57	1/ 2	H2O =35.9	POROSITY =	.1745
			SOLIDS=64.1	VOID RATIO=	.2114
2	59	2/ 2	H2O =27.0	POROSITY =	.1225
			SOLIDS=73.0	VOID RATIO=	.1396
1	59	2/ 2	H2O =47.1	POROSITY =	.2514
			SOLIDS=52.9	VOID RATIO=	.3358

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	57	1/ 2	O-G =	.37
1	57	1/ 2	O-G =	.44
2	59	2/ 2	O-G =	.24

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	18	59	76	4	8	1321	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 59 2/ 2 O-G = .45

CRUISE- 99 STATION- 18

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	19	1	76 4 8	7	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	1.10	1.18	1.25	.11	.11	3.75
2	50	1/ 2	.00*	.70	.73	.74	.20	.00*	2.37
3	58	1/ 2	.00*	.73	1.25	1.39	.52	.06	3.95
1	1	2/ 2	.00*	.63	1.24	1.13	.14	.15	3.29
2	50	2/ 2	.00*	.64	1.18	1.45	.32	.14	3.73
3	59	2/ 2	.00*	.39	.71	.96	.09	.00*	2.14
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.37	.92	.81	.29	.25	2.65
2	50	1/ 2	.00*	.05	.53	.32	.13	.22	1.24
3	59	1/ 2	.00*	.19	.66	.52	.20	.33	1.90
1	1	2/ 2	.00*	.01	.23	.34	.25	.36	1.20
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	46	1/ 2	.00*	.31	3.36	23.85	17.18	15.36	60.07
1	46	1/ 2	.01*	3.06	19.68	67.11	33.60	24.62	148.08
2	51	2/ 2	.08	2.77	13.03	47.79	28.85	20.44	113.70
1	51	2/ 2	.01*	9.25	55.14	175.89	95.92	73.77	409.99

CRUISE- 99 STATION- 19

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	19	46	76	4	8	1344	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	46	1/ 2	H2O =38.1	POROSITY =	.1884
			SOLIDS=61.9	VOID RATIO=	.2321
1	46	1/ 2	H2O =45.1	POROSITY =	.2365
			SOLIDS=54.9	VOID RATIO=	.3097
2	51	2/ 2	H2O =39.6	POROSITY =	.1985
			SOLIDS=60.4	VOID RATIO=	.2477
1	51	2/ 2	H2O =44.4	POROSITY =	.2314
			SOLIDS=55.6	VOID RATIO=	.3011

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	46	1/ 2	O-G	= 1.24
1	46	1/ 2	O-G	= 1.40
2	51	2/ 2	O-G	= 1.15
1	51	2/ 2	O-G	= 1.45

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	20	59	76	4	8	1400	122 20.38	47 35.58

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	59	1/ 2	.01*	9.30	43.90	152.06	72.58	56.10	333.94
2	59	1/ 2	124.72	1355.80	1088.30	257.76	59.75	52.14	2938.50
2	63	2/ 2	.00*	5.10	17.10	63.40	36.16	30.35	152.12
1	53	2/ 2	.01*	8.74	35.27	148.69	104.06	49.59	346.36

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	59	1/ 2	H2O =45.1	POROSITY =	.2365
			SOLIDS=54.9	VOID RATIO=	.3097
2	59	1/ 2	H2O =39.0	POROSITY =	.1945
			SOLIDS=61.0	VOID RATIO=	.2415
	63	2/ 2	H2O =37.5	POROSITY =	.1847
			SOLIDS=62.5	VOID RATIO=	.2265
	53	2/ 2	H2O =48.9	POROSITY =	.2653
			SOLIDS=51.1	VOID RATIO=	.3612

YPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

	59	1/ 2	O-G = 2.52
	59	1/ 2	O-G = 1.16
	63	2/ 2	O-G = 1.44

CRUISE- 99 STATION- 20

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	20	63	76	4	8	1405	122 20.38	47 35.58

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 53 2/ 2 O-G = 2.55

CRUISE- 99 STATION- 20

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
99	44	1	76	4	8	13	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.41	1.22	1.24	.31	.11	3.30
2	26	1/ 2	.00*	3.58	6.98	6.10	.96	.34	17.97
3	36	1/ 2	.00*	.46	.64	.66	.22	.00*	1.98
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.50	1.15	1.00	.27	.23	3.15
2	26	1/ 2	.00*	.30	1.10	1.70	.84	.40	4.35
3	36	1/ 2	.00*	8.90	6.43	.87	.11	.18	16.49

CRUISE- 99 STATION- 44

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	1	61	76 6 16	852	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
1	61	1/ 2	29.59	191.61	408.55	447.50	120.02	57.41	1254.70
2	61	1/ 2	.01*	3.68	24.46	73.86	39.00	43.04	184.05
1	61	2/ 2	40.93	221.35	442.25	482.97	132.33	62.91	1382.70
2	61	2/ 2	.01*	1.18	1.96	14.96	8.10	7.69	33.91

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	61	1/ 2	H2O =49.3	POROSITY =	.2684
			SOLIDS=50.7	VOID RATIO=	.3668
2	61	1/ 2	H2O =32.7	POROSITY =	.1546
			SOLIDS=67.3	VOID RATIO=	.1829
1	61	2/ 2	H2O =49.5	POROSITY =	.2697
			SOLIDS=50.5	VOID RATIO=	.3692
2	61	2/ 2	H2O =37.0	POROSITY =	.1817
			SOLIDS=63.0	VOID RATIO=	.2220

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	61	1/ 2	O-G	= 1.08
2	61	1/ 2	O-G	= .81
1	61	2/ 2	O-G	= 1.18

CRUISE-168 STATION- 1

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	1	61	76	6	16	903	122 21.49	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 2/ 2 O-G = .95

CRUISE-168 STATION- 1

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	2	60	76 6 16	912	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	45.21	261.37	500.36	462.66	107.68	47.87	1425.10
2	60	1/ 2	.70	8.76	36.94	68.66	32.43	25.94	173.43
1	61	2/ 2	32.75	289.79	592.98	550.57	142.69	81.60	1690.40
2	61	2/ 2	52.40	248.16	395.61	366.72	109.05	49.56	1221.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =43.8	POROSITY =	.2273
			SOLIDS=56.2	VOID RATIO=	.2942
2	60	1/ 2	H2O =31.1	POROSITY =	.1453
			SOLIDS=68.9	VOID RATIO=	.1700
1	61	2/ 2	H2O =55.1	POROSITY =	.3162
			SOLIDS=44.9	VOID RATIO=	.4623
2	61	2/ 2	H2O =38.2	POROSITY =	.1893
			SOLIDS=61.8	VOID RATIO=	.2335

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G =	.99
2	60	1/ 2	O-G =	1.14
1	61	2/ 2	O-G =	1.06

CRUISE-168 STATION- 2

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	2	61	76	6	16	926	122 21.44	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 2/ 2 O-G = 1.45

CRUISE-168 STATION- 2

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	3	63	76 6 16	931	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	63	1/ 2	7.61	77.62	153.20	176.18	58.03	24.63	497.27
2	63	1/ 2	.01*	.88	8.75	23.84	11.85	9.32	54.65
1	64	2/ 2	18.02	98.39	204.71	249.87	73.32	36.19	680.50
2	64	2/ 2	.83	2.24	10.26	28.20	15.43	12.87	69.83

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	63	1/ 2	H2O =38.9	POROSITY =	.1935
			SOLIDS=61.1	VOID RATIO=	.2399
2	63	1/ 2	H2O =28.8	POROSITY =	.1327
			SOLIDS=71.2	VOID RATIO=	.1529
1	64	2/ 2	H2O =42.1	POROSITY =	.2152
			SOLIDS=57.9	VOID RATIO=	.2743
2	64	2/ 2	H2O =32.7	POROSITY =	.1548
			SOLIDS=67.3	VOID RATIO=	.1832

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	63	1/ 2	O-G =	.96
2	63	1/ 2	O-G =	.44
1	64	2/ 2	O-G =	.79

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	3	64	76	6	16	938	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 64 2/ 2 O-G = .84

CRUISE-168 STATION- 3

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	4	67	76 6 16	945	122 21.35	47 35.46

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	67	1/ 2	22.00	181.37	374.01	377.15	105.94	61.16	1121.60
2	67	1/ 2	.01	25.03	72.55	79.58	29.43	27.00	233.60
1	67	2/ 2	11.02	152.05	354.09	486.46	175.61	115.92	1295.20
2	67	2/ 2	.01*	4.61	19.92	47.61	37.33	29.45	138.92

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	67	1/ 2	H2O =52.2	POROSITY =	.2916
			SOLIDS=47.8	VOID RATIO=	.4116
2	67	1/ 2	H2O =32.2	POROSITY =	.1522
			SOLIDS=67.8	VOID RATIO=	.1795
1	67	2/ 2	H2O =50.8	POROSITY =	.2805
			SOLIDS=49.2	VOID RATIO=	.3897
2	67	2/ 2	H2O =36.9	POROSITY =	.1807
			SOLIDS=63.1	VOID RATIO=	.2206

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	67	1/ 2	O-G	= 1.20
2	67	1/ 2	O-G	= 1.40
1	67	2/ 2	O-G	= 1.31

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	4	67	76	6	16	949	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 67 2/ 2 O-G = .86

CRUISE-168 STATION- 4

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	5	60	76 6 16	955	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	21.80	165.34	278.71	231.21	59.22	18.13	774.42
2	60	1/ 2	.01	7.28	31.57	226.18	189.60	296.16	750.80
1	60	2/ 2	14.69	167.69	304.37	307.97	93.54	39.10	927.36
2	60	2/ 2	3.61	32.37	92.36	234.72	170.48	141.95	675.49

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =50.2	POROSITY = .2757
			SOLIDS=49.8	VOID RATIO= .3807
2	60	1/ 2	H2O =30.2	POROSITY = .1402
			SOLIDS=69.8	VOID RATIO= .1631
1	60	2/ 2	H2O =50.6	POROSITY = .2787
			SOLIDS=49.4	VOID RATIO= .3865
2	60	2/ 2	H2O =34.8	POROSITY = .1678
			SOLIDS=65.2	VOID RATIO= .2017

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G	= .90
2	60	1/ 2	O-G	= .59
1	60	2/ 2	O-G	= 1.09

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	5	60	76 6 16	1001	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 60 2/ 2 O-G = .70

CRUISE-168 STATION- 5

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	6	60	76 6 16	1010	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	31.21	235.33	378.04	308.48	51.33	34.78	1039.20
2	60	1/ 2	13.78	99.51	189.64	202.76	61.33	38.14	605.16
1	59	2/ 2	28.03	185.59	331.83	326.57	84.78	43.66	1000.50
2	59	2/ 2	.00*	3.52	36.13	135.36	91.92	69.94	336.87

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =50.5	POROSITY =	.2778
			SOLIDS=49.5	VOID RATIO=	.3847
2	60	1/ 2	H2O =36.5	POROSITY =	.1783
			SOLIDS=63.5	VOID RATIO=	.2170
1	59	2/ 2	H2O =50.0	POROSITY =	.2743
			SOLIDS=50.0	VOID RATIO=	.3780
2	59	2/ 2	H2O =28.9	POROSITY =	.1332
			SOLIDS=71.1	VOID RATIO=	.1537

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G	= 1.43
2	60	1/ 2	O-G	= 1.26
1	59	2/ 2	O-G	= 1.16

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	6	59	76	6	16	1015	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 59 2/ 2 O-G = 1.15

CRUISE-168 STATION- 6

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	7	60	76	6	16	1022	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	67.10	502.00	1061.40	1081.50	296.24	104.32	3112.50
2	60	1/ 2	31.20	293.90	621.93	588.00	146.16	70.34	1751.50
1	65	2/ 2	42.06	289.91	554.66	536.83	142.70	55.00	1621.20
2	65	2/ 2	12.96	90.04	171.42	180.90	50.90	29.30	535.52

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =51.8	POROSITY =	.2884
			SOLIDS=48.2	VOID RATIO=	.4053
2	60	1/ 2	H2O =41.2	POROSITY =	.2090
			SOLIDS=58.8	VOID RATIO=	.2642
1	65	2/ 2	H2O =66.9	POROSITY =	.4324
			SOLIDS=33.1	VOID RATIO=	.7619
2	65	2/ 2	H2O =33.7	POROSITY =	.1608
			SOLIDS=66.3	VOID RATIO=	.1916

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G	= 1.68
2	60	1/ 2	O-G	= 1.68
1	65	2/ 2	O-G	= 1.38

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	7	65	76	6	16	1027	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 65 2/ 2 O-G = 1.79

CRUISE-168 STATION- 7

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	8	65	76 6 16	1034	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	65	1/ 2	18.21	224.96	389.68	358.22	111.06	40.63	1142.80
2	65	1/ 2	2.42	19.63	53.94	101.87	55.38	39.39	272.62
1	66	2/ 2	65.99	384.44	558.56	429.10	80.42	40.89	1559.40
2	66	2/ 2	10.83	66.31	132.55	201.11	92.32	70.85	573.97

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	65	1/ 2	H2O =51.2	POROSITY =	.2838
			SOLIDS=48.8	VOID RATIO=	.3962
2	65	1/ 2	H2O =32.7	POROSITY =	.1550
			SOLIDS=67.3	VOID RATIO=	.1834
1	66	2/ 2	H2O =51.2	POROSITY =	.2836
			SOLIDS=48.8	VOID RATIO=	.3958
2	66	2/ 2	H2O =34.1	POROSITY =	.1636
			SOLIDS=65.9	VOID RATIO=	.1955

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	65	1/ 2	O-G	= 1.06
2	65	1/ 2	O-G	= .72
1	66	2/ 2	O-G	= .85

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	8	66	76 6 16	1039	122 21.35	47 35.43

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 66 2/ 2 O-G = .84

CRUISE-168 STATION- 8

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	9	59	76	6	16	1045	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	59	1/ 2	54.72	341.64	673.44	622.00	148.18	59.29	1899.30
2	59	1/ 2	20.95	105.98	172.46	174.75	64.99	53.15	592.29
1	59	2/ 2	25.37	236.54	571.30	710.07	203.14	69.37	1815.80
2	59	2/ 2	.01	11.00	32.68	60.97	25.89	19.92	150.47

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	59	1/ 2	H2O =59.7	POROSITY =	.3581
			SOLIDS=40.3	VOID RATIO=	.5580
2	59	1/ 2	H2O =38.9	POROSITY =	.1940
			SOLIDS=61.1	VOID RATIO=	.2406
1	59	2/ 2	H2O =52.5	POROSITY =	.2941
			SOLIDS=47.5	VOID RATIO=	.4167
2	59	2/ 2	H2O =25.8	POROSITY =	.1158
			SOLIDS=74.2	VOID RATIO=	.1310

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	59	1/ 2	O-G	= 1.43
2	59	1/ 2	O-G	= .68
1	59	2/ 2	O-G	= 1.32

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	9	59	76 6 16	1050	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 59 2/ 2 O-G = .77

CRUISE-168 STATION- 9

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	10	58	76 6 16	1055	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	58	1/ 2	18.48	152.58	437.46	646.51	177.72	80.63	1513.40
2	58	1/ 2	.01	13.37	32.42	131.57	95.52	242.41	515.30
1	58	2/ 2	67.58	502.65	1087.20	1013.70	266.56	171.47	3109.20
2	58	2/ 2	2.12	110.88	187.57	247.92	86.84	48.75	684.08

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	58	1/ 2	H2O =49.7	POROSITY =	.2713
			SOLIDS=50.3	VOID RATIO=	.3724
2	58	1/ 2	H2O =41.3	POROSITY =	.2100
			SOLIDS=58.7	VOID RATIO=	.2658
1	58	2/ 2	H2O =50.4	POROSITY =	.2773
			SOLIDS=49.6	VOID RATIO=	.3838
2	58	2/ 2	H2O =34.9	POROSITY =	.1685
			SOLIDS=65.1	VOID RATIO=	.2027

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	58	1/ 2	O-G	= 1.33
2	58	1/ 2	O-G	= 1.11
1	58	2/ 2	O-G	= 1.24

CRUISE-168 STATION- 10

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	10	58	76	6	16	1103	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 58 2/ 2 O-G = .94

CRUISE-168 STATION- 10

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	11	60	76 6 16	1107	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	1/ 2	52.86	423.75	792.50	665.52	161.22	77.56	2173.40
2	60	1/ 2	57.20	570.02	1098.30	793.07	155.30	74.70	2748.60
1	60	2/ 2	46.98	374.40	1239.40	1696.30	438.77	132.50	3928.40
2	60	2/ 2	64.70	581.52	1120.00	855.67	196.31	77.24	2895.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	1/ 2	H2O =56.0	POROSITY =	.3248
			SOLIDS=44.0	VOID RATIO=	.4811
2	60	1/ 2	H2O =46.9	POROSITY =	.2497
			SOLIDS=53.1	VOID RATIO=	.3328
1	60	2/ 2	H2O =52.2	POROSITY =	.2918
			SOLIDS=47.8	VOID RATIO=	.4120
2	60	2/ 2	H2O =46.2	POROSITY =	.2444
			SOLIDS=53.8	VOID RATIO=	.3235

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	60	1/ 2	O-G	= 2.16
2	60	1/ 2	O-G	= 2.55
1	60	2/ 2	O-G	= 1.91

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	11	60	76	6	16	1114	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

? 60 2/ 2 O-G = 2.02

CRUISE-168 STATION- 11

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	12	63	76	6	16	1119	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	63	1/ 2	45.61	276.43	484.16	480.32	127.04	50.34	1463.90
2	63	1/ 2	.014	16.16	59.74	137.23	53.93	38.77	305.84
1	63	2/ 2	49.00	335.50	588.57	483.17	113.69	59.01	1628.90
2	63	2/ 2	.01	3.91	57.89	148.59	59.00	35.49	304.89

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	63	1/ 2	H2O =52.3 SOLIDS=47.7	POROSITY = .2930 VOID RATIO= .4143
2	63	1/ 2	H2O =32.5 SOLIDS=67.5	POROSITY = .1540 VOID RATIO= .1821
1	63	2/ 2	H2O =42.5 SOLIDS=57.5	POROSITY = .2183 VOID RATIO= .2792
2	63	2/ 2	H2O =25.4 SOLIDS=74.6	POROSITY = .1139 VOID RATIO= .1285

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	63	1/ 2	O-G =	.85
2	63	1/ 2	O-G =	.50
1	63	2/ 2	O-G =	.87

CRUISE-168 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	12	63	76 6 16	1124	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 63 2/ 2 O-G = .68

CRUISE-168 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	13	54	76 6 16	1237	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	54	1/ 2	.01	52.18	124.07	182.63	95.46	75.04	529.40
1	54	2/ 2	36.61	215.33	417.58	405.44	118.73	65.91	1259.60

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	54	1/ 2	H2O =51.0	POROSITY = .2821
			SOLIDS=49.0	VOID RATIO= .3929
1	54	2/ 2	H2O =58.9	POROSITY = .3507
			SOLIDS=41.1	VOID RATIO= .5401

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	54	1/ 2	O-G	= .79
1	54	2/ 2	O-G	= .91

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	14	56	76 6 16	1201	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	56	1/ 2	27.21	97.12	257.87	1151.00	1216.10	1158.40	3907.70
1	56	1/ 2	48.65	291.18	520.03	458.19	141.01	57.56	1516.60
2	56	2/ 2	19.91	97.59	145.39	135.21	40.32	24.69	463.12
1	56	2/ 2	.03	431.16	1024.40	1244.40	282.96	105.11	3088.10

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	56	1/ 2	H2O =36.4	POROSITY = .1773
			SOLIDS=63.6	VOID RATIO= .2156
1	56	1/ 2	H2O =76.1	POROSITY = .5463
			SOLIDS=23.9	VOID RATIO=1.2040
2	56	2/ 2	H2O =35.9	POROSITY = .1745
			SOLIDS=64.1	VOID RATIO= .2114
1	56	2/ 2	H2O =78.0	POROSITY = .5725
			SOLIDS=22.0	VOID RATIO=1.3392

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

56	1/ 2	O-G	= 1.29
56	1/ 2	O-G	= 1.34
56	2/ 2	O-G	= 3.62

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	14	56	76	6	16	1206	122 21.44	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 56 2/ 2 O-G = 1.80

CRUISE-168 STATION- 14

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	15	58	76 6 16	1211	122 21.40	47 35.37

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	58	1/ 2	2.45	116.85	242.28	239.59	54.08	22.08	677.33
1	57	2/ 2	58.40	276.69	496.06	468.16	125.13	53.23	1477.70
2	57	2/ 2	.02	6.00	48.03	148.29	81.10	59.11	342.54
1	58	1/ 2	26.13	144.61	288.87	292.60	89.96	59.74	901.90
2	58	1/ 2	.01	11.19	44.03	81.39	49.00	57.42	243.05

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	58	1/ 2	H2O =46.6	POROSITY =	.2474
			SOLIDS=53.4	VOID RATIO=	.3287
1	57	2/ 2	H2O =50.4	POROSITY =	.2770
			SOLIDS=49.6	VOID RATIO=	.3832
2	57	2/ 2	H2O =32.7	POROSITY =	.1548
			SOLIDS=67.3	VOID RATIO=	.1832
1	58	1/ 2	H2O =53.0	POROSITY =	.2983
			SOLIDS=47.0	VOID RATIO=	.4251
2	58	1/ 2	H2O =28.5	POROSITY =	.1309
			SOLIDS=71.5	VOID RATIO=	.1506

CRUISE-168 STATION- 15

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	15	58	76 6 16	1211	122 [illegible].40	47 35.37

SC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE: OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

58	1/ 2 O-G	=	.99
57	2/ 2 O-G	=	1.09
57	2/ 2 O-G	=	.45
58	1/ 2 O-G	=	.00
58	1/ 2 O-G	=	.44

CRUISE-168 STATION- 15

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	16	61	76	6	16	1221	122 21.35	47 35.37

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
1	61	1/ 2	25.96	203.04	627.37	1039.50	282.87	103.82	2282.60
1	61	2/ 2	41.40	240.54	503.30	536.91	138.14	67.43	1527.70
2	61	2/ 2	.01	9.79	58.29	179.47	124.31	104.51	476.38
1	61	1/ 2	37.21	248.69	572.03	627.04	160.72	64.64	1710.30
2	60	1/ 2	2.21	15.14	76.45	200.50	82.00	45.15	421.46

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	61	1/ 2	H2O =53.2	POROSITY =	.3004
			SOLIDS=46.8	VOID RATIO=	.4294
1	61	2/ 2	H2O =58.8	POROSITY =	.3496
			SOLIDS=41.2	VOID RATIO=	.5375
2	61	2/ 2	H2O =32.4	POROSITY =	.1531
			SOLIDS=67.6	VOID RATIO=	.1807
1	61	1/ 2	H2O =55.0	POROSITY =	.3154
			SOLIDS=45.0	VOID RATIO=	.4606
2	60	1/ 2	H2O =31.0	POROSITY =	.1452
			SOLIDS=69.0	VOID RATIO=	.1699

CRUISE-168 STATION- 16

SE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
68	16	61	76	6	16	1221	122 21.35	47 35.37

DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

E:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

61	1/ 2	O-G	= 2.52
61	2/ 2	O-G	= 2.38
61	2/ 2	O-G	= .50
61	1/ 2	O-G	= .00
60	1/ 2	O-G	= .94

CRUISE-168 STATION- 16

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	17	46	76 6 16	1404	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	46	1/ 2	1.23	.75	14.02	38.98	17.21	11.27	83.46
2	46	1/ 2	.00*	.44	2.01	5.92	2.23	1.76	12.35
1	44	2/ 2	3.29	9.79	28.18	39.03	17.68	10.50	108.46
2	44	2/ 2	.00*	.22	2.83	8.72	3.63	1.24	16.64

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	46	1/ 2	H2O =39.5	POROSITY = .1979
			SOLIDS=60.5	VOID RATIO= .2467
2	46	1/ 2	H2O =24.7	POROSITY = .1102
			SOLIDS=75.3	VOID RATIO= .1238
1	44	2/ 2	H2O =34.9	POROSITY = .1683
			SOLIDS=65.1	VOID RATIO= .2024
2	44	2/ 2	H2O =24.6	POROSITY = .1096
			SOLIDS=75.4	VOID RATIO= .1230

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	46	1/ 2	O-G =	.38
2	46	1/ 2	O-G =	.23
1	44	2/ 2	O-G =	.30

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	17	44	76	6	16	1408	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 44 2/ 2 O-G = .23

CRUISE-168 STATION- 17

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	18	55	76 6 16	1414	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	55	1/ 2	.00*	2.27	9.29	27.92	15.11	11.69	66.28
2	55	1/ 2	.00*	.16	.40	3.46	5.09	.00*	9.11
1	52	2/ 2	.00*	.89	10.84	31.15	15.22	11.54	69.65
2	52	2/ 2	.01*	.82	3.78	15.36	7.58	3.31	30.85

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	55	1/ 2	H2O =43.4	POROSITY =	.2244
			SOLIDS=56.6	VOID RATIO=	.2894
2	55	1/ 2	H2O =26.2	POROSITY =	.1182
			SOLIDS=73.8	VOID RATIO=	.1341
1	52	2/ 2	H2O =39.2	POROSITY =	.1954
			SOLIDS=60.8	VOID RATIO=	.2429
2	52	2/ 2	H2O =28.8	POROSITY =	.1326
			SOLIDS=71.2	VOID RATIO=	.1529

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	55	1/ 2	O-G =	.34
2	55	1/ 2	O-G =	.11
1	52	2/ 2	O-G =	.36

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	18	52	76 6 16	1425	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 52 2/ 2 O-G = .25

CRUISE-168 STATION- 18

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	19	47	76 6 16	1327	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	47	1/ 2	2.69	7.63	45.76	156.16	82.28	65.69	360.21
2	47	1/ 2	.01*	.01	1.57	13.85	8.33	7.27	31.03
1	48	2/ 2	.01*	13.14	43.38	148.62	73.76	51.55	330.45
	48	2/ 2	.01*	1.14	3.21	11.64	7.59	5.84	29.42

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

47	1/ 2	H2O =47.6	POROSITY =	.2551
		SOLIDS=52.4	VOID RATIO=	.3424
47	1/ 2	H2O =39.2	POROSITY =	.1958
		SOLIDS=60.8	VOID RATIO=	.2434
48	2/ 2	H2O =50.7	POROSITY =	.2797
		SOLIDS=49.3	VOID RATIO=	.3883
48	2/ 2	H2O =40.1	POROSITY =	.2020
		SOLIDS=59.9	VOID RATIO=	.2531

TYPE:OIL AND GREASE WI 4 UNITS: MG OIL-GR PER GM DRY MASS

47	1/ 2	O-G	= 1.59
47	1/ 2	O-G	= 1.18
48	2/ 2	O-G	= 1.51

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	19	48	76	6	16	1330	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 48 2/ 2 O-G = .00

CRUISE-168 STATION- 19

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	20	52	76 6 16	1336	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS									
1	52	1/ 2	.01	2.52	20.21	66.91	28.17	20.08	137.91
2	52	1/ 2	.66	5.90	23.12	79.60	48.18	40.72	198.20
1	54	2/ 2	.00*	2.64	15.55	51.26	21.09	15.88	106.42
2	54	2/ 2	.00*	2.18	9.29	24.44	11.09	9.14	56.15

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	52	1/ 2	H2O =44.4	POROSITY =	.2317
			SOLIDS=55.6	VOID RATIO=	.3016
2	52	1/ 2	H2O =38.0	POROSITY =	.1878
			SOLIDS=62.0	VOID RATIO=	.2312
1	54	2/ 2	H2O =45.4	POROSITY =	.2390
			SOLIDS=54.6	VOID RATIO=	.3140
2	54	2/ 2	H2O =30.5	POROSITY =	.1420
			SOLIDS=69.5	VOID RATIO=	.1655

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1	52	1/ 2	O-G	= 1.23
	52	1/ 2	O-G	= 1.17
	54	2/ 2	O-G	= 1.84

CRUISE-168 STATION- 20

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
168	20	54	76	6	16	1341	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 54 2/ 2 O-G = .84

CRUISE-168 STATION- 20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
170	6	1	76 6 18	19	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.20	.62	.77	.15	.07	1.80
2	50	1/ 2	.00*	.92	1.02	1.02	.42	.00*	3.38
3	58	1/ 2	.00*	.68	.77	.90	.22	.09	2.65
1	1	2/ 2	.00*	.79	1.05	1.14	.05	.04	3.08
2	50	2/ 2	.00*	1.23	1.01	1.13	.09	.03	3.50
3	58	2/ 2	.00*	.72	1.06	.90	.22	.25	3.15
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.37	.42	.63	.24	.04	1.70
2	50	1/ 2	.00*	.30	.55	.54	.11	.07	1.57
3	58	1/ 2	.00*	.19	.54	.25	.01	.06	1.06
1	1	2/ 2	.00*	.32	.60	.80	.23	.07	2.02
2	50	2/ 2	.00*	.26	.29	.24	.07	.00*	.85
3	58	2/ 2	.00*	.32	.49	.50	.16	.01	1.48

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
170	10	1	76	6	18	25	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	1.08	2.07	1.76	.42	.00*	5.32
2	50	1/ 2	.00*	1.51	1.49	1.15	.29	.00*	4.44
3	58	1/ 2	.00*	2.68	9.85	11.19	1.86	.13	25.72
1	1	2/ 2	.00*	1.40	1.26	2.04	.37	.00*	5.06
2	50	2/ 2	.00*	.68	1.08	1.06	.29	.26	3.37
3	58	2/ 2	.00*	.82	1.26	1.28	.34	.00*	3.69
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.25	.32	.62	.29	.12	1.60
2	50	1/ 2	.00*	.08	.14	.25	.06	.03	.56
3	58	1/ 2	.00*	.17	.36	.72	.23	.08	1.59
1	1	2/ 2	.00*	.32	.35	.56	.23	.04	1.50
2	50	2/ 2	.00*	.04	.13	.23	.04	.00*	.45
3	58	2/ 2	.00*	.21	.32	.45	.11	.03	1.12

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
170	17	1	76	6	18	1	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.64	.67	.75	.36	.00*	2.43
2	50	1/ 2	.00*	.34	1.04	.86	.40	.10	2.74
3	60	1/ 2	.00*	.86	.42	.32	.20	.00*	1.80
1	1	2/ 2	.00*	.36	.69	.85	.14	.10	2.14
2	50	2/ 2	.00*	.21	.28	.36	.11	.00*	.96
3	60	2/ 2	.00*	.54	.31	.52	.24	.00*	1.62
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.29	.41	.49	.13	.04	1.37
2	50	1/ 2	.00*	.21	.28	.24	.04	.02	.79
3	60	1/ 2	.00*	.25	.30	.24	.05	.01	.85
1	1	2/ 2	.00*	.34	.32	.34	.06	.01	1.07
2	50	2/ 2	.00*	.32	.40	.29	.04	.04	1.09
3	60	2/ 2	.00*	.22	.28	.25	.07	.00*	.83

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
170	19	1	76 6 18	7	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.32	.79	.90	.17	.05	2.24
2	50	1/ 2	.00*	.24	.30	.40	.09	.00*	1.02
3	59	1/ 2	.00*	.47	.23	.37	.13	.00*	1.21
1	1	2/ 2	.00*	.58	.54	.59	.12	.00*	1.83
2	50	2/ 2	.00*	.25	.17	.35	.00*	.00*	.77
3	59	2/ 2	.00*	.20	.53	.49	.14	.01	1.38
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.91	.69	.59	.19	.22	2.60
2	50	1/ 2	.00*	.64	.68	.25	.05	.12	1.73
3	59	1/ 2	.00*	.69	.35	.28	.04	.05	1.42
1	1	2/ 2	.00*	.13	.53	.33	.17	.18	1.34
2	50	2/ 2	.00*	.21	.22	.26	.04	.00*	.77
3	59	2/ 2	.00*	.28	.35	.35	.06	.02	1.06

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
170	44	1	76	6	18	13	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.17	.48	.59	.23	.15	1.61
2	10	1/ 2	.00*	.20	.51	.42	.10	.02	1.25
3	19	1/ 2	.00*	.14	.25	.34	.05	.11	.90
1	1	2/ 2	.00*	.31	.87	1.02	.42	.00*	2.62
2	10	2/ 2	.00*	.43	.15	.40	.04	.00*	1.02
3	19	2/ 2	.00*	.63	.83	.82	.17	.03	2.48
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.66	1.01	.64	.22	.23	2.77
2	10	1/ 2	.00*	.24	.39	.28	.02	.00*	.93
3	19	1/ 2	.00*	.25	.36	.32	.07	.03	1.02
1	1	2/ 2	.00*	.43	.50	.60	.15	.01	1.69
	10	2/ 2	.00*	.16	.26	.27	.05	.00*	.74
3	19	2/ 2	.00*	.34	.34	.22	.03	.00*	.94

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	1	62	76	9	21	1045	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	62	1/ 2	.01*	7.58	46.17	138.84	7C.47	43.07	306.14
1	62	1/ 2	23.05	182.96	403.62	413.25	111.11	57.66	1191.60
2	62	2/ 2	6.75	26.94	56.39	79.78	35.89	33.93	239.69
1	62	2/ 2	43.95	282.54	569.46	564.98	143.65	65.04	1669.60

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	62	1/ 2	H2O =33.9	POROSITY =	.1623
			SOLIDS=66.1	VOID PATIO=	.1937
1	62	1/ 2	H2O =49.5	POROSITY =	.2697
			SOLIDS=50.5	VOID RATIO=	.3693
2	62	2/ 2	H2O =41.1	POROSITY =	.2081
			SOLIDS=58.9	VOID RATIO=	.2628
1	62	2/ 2	H2O =45.1	POROSITY =	.2363
			SOLIDS=54.9	VOID RATIO=	.3095

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

62	1/ 2	TOC	= 1.54
62	1/ 2	TOC	= 2.28
62	2/ 2	TOC	= 1.84

CRUISE-265 STATION- 1

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	1	62	76	9	21	1100	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 2/ 2 TOC = 3.20

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 62 1/ 2 O-G = 1.41
1 62 1/ 2 O-G = 1.07
2 62 2/ 2 O-G = 1.05
1 62 2/ 2 O-G = 1.06

CRUISE-265 STATION- 1

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	2	64	76 9 21	1115	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	17.58	70.05	153.46	209.23	81.99	55.73	588.05
1	64	1/ 2	30.79	208.13	361.06	293.15	66.53	35.11	994.77
2	62	2/ 2	10.79	70.46	167.89	220.17	73.75	44.08	587.15
1	62	2/ 2	30.66	233.81	434.10	351.89	92.12	29.80	1172.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =42.2	POROSITY =	.2158
			SOLIDS=57.8	VOID RATIO=	.2751
1	64	1/ 2	H2O =45.0	POROSITY =	.2362
			SOLIDS=55.0	VOID RATIO=	.3093
2	62	2/ 2	H2O =42.1	POROSITY =	.2154
			SOLIDS=57.9	VOID RATIO=	.2746
1	62	2/ 2	H2O =47.1	POROSITY =	.2516
			SOLIDS=52.9	VOID RATIO=	.3363

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	64	1/ 2	TOC	= 2.60
1	64	1/ 2	TOC	= 2.92
2	62	2/ 2	TOC	= 2.31

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	2	62	76 9 21	1130	122 21.44	47 35.46

C DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

YPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

62 2/ 2 TOC = 2.90

YPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

64 1/ 2 O-G = 1.17
64 1/ 2 O-G = 1.10
62 2/ 2 O-G = 1.33
62 2/ 2 O-G = 1.06

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	3	66	76 9 21	1140	122 21.40	47 35.46

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	.91	6.06	33.94	88.99	34.56	25.52	189.98
1	66	1/ 2	35.30	160.50	300.47	308.87	87.42	41.43	934.00
2	61	2/ 2	49.17	183.73	375.41	356.85	92.11	48.97	1106.20
1	61	2/ 2	93.95	567.46	965.73	690.83	163.84	66.51	2548.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =31.7	POROSITY = .1493
			SOLIDS=68.3	VOID RATIO= .1755
1	66	1/ 2	H2O =48.1	POROSITY = .2591
			SOLIDS=51.9	VOID RATIO= .3498
	61	2/ 2	H2O =37.6	POROSITY = .1850
			SOLIDS=62.4	VOID RATIO= .2270
	61	2/ 2	H2O =51.3	POROSITY = .2844
			SOLIDS=48.7	VOID RATIO= .3975

YPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

66	1/ 2	TOC	= 1.26
66	1/ 2	TOC	= 2.49
61	2/ 2	TOC	= 2.32

CRUISE-265 STATION- 3

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	3	61	76 9 21	1150	122 21.40	47 35.46

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	61	2/ 2 TOC	= 3.84

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	66	1/ 2 O-G	= .85
3	66	1/ 2 O-G	= .78
	61	2/ 2 O-G	= 1.32
	61	2/ 2 O-G	= 1.67

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	4	69	76 9 21	1155	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	69	1/ 2	.01*	8.62	52.15	148.36	96.82	67.66	373.63
1	69	1/ 2	31.31	252.77	513.18	519.64	144.85	77.00	1538.80
2	67	2/ 2	5.04	58.80	240.47	250.96	111.27	94.84	761.37
1	67	2/ 2	33.46	242.91	456.55	382.79	91.58	46.37	1253.70

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	69	1/ 2	H2O =37.3	POROSITY =	.1833
			SOLIDS=62.7	VOID RATIO=	.2244
1	69	1/ 2	H2O =53.6	POROSITY =	.3039
			SOLIDS=46.4	VOID RATIO=	.4367
2	67	2/ 2	H2O =40.1	POROSITY =	.2015
			SOLIDS=59.9	VOID RATIO=	.2523
1	67	2/ 2	H2O =44.5	POROSITY =	.2324
			SOLIDS=55.5	VOID RATIO=	.3027

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

69	1/ 2	TOC	= 1.42
69	1/ 2	TOC	= 3.22
67	2/ 2	TOC	= 1.52

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	4	67	76	9	21	1200	122 21.35	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 67 2/ 2 TOC = 3.45

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 69 1/ 2 O-G = .87
1 69 1/ 2 O-G = 1.48
2 67 2/ 2 O-G = 1.27
1 67 2/ 2 O-G = 1.66

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	5	61	76 9 21	1210	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	61	1/ 2	17.10	[illegible]	173.21	221.79	92.84	68.83	667.38
1	61	1/ 2	33.09	238.80	454.10	454.60	126.00	48.59	1365.00
2	60	2/ 2	25.70	157.30	265.46	262.14	79.24	50.47	840.32
1	60	2/ 2	37.25	258.60	505.20	495.90	120.50	52.32	1470.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	61	1/ 2	H2O =37.1	POROSITY =	.1823
			SOLIDS=62.9	VOID RATIO=	.2229
1	61	1/ 2	H2O =44.3	POROSITY =	.2307
			SOLIDS=55.7	VOID RATIO=	.2999
2	60	2/ 2	H2O =42.3	POROSITY =	.2168
			SOLIDS=57.7	VOID RATIO=	.2769
1	60	2/ 2	H2O =49.1	POROSITY =	.2667
			SOLIDS=50.9	VOID RATIO=	.3637

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	61	1/ 2	TOC	= 2.78
1	61	1/ 2	TOC	= 2.70
2	60	2/ 2	TOC	= 2.22

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	5	60	76	9	21	1220	122 21.49	47 35.43

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 60 2/ 2 TOC = 2.49

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 1/ 2 O-G = 1.03
1 61 1/ 2 O-G = 1.26
2 60 2/ 2 O-G = 1.23
1 60 2/ 2 O-G = 1.20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	6	61	76 9 21	1225	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	61	1/ 2	37.30	153.45	258.16	271.15	95.23	59.92	875.21
1	61	1/ 2	35.86	292.50	551.00	474.70	102.80	58.26	1515.00
2	62	2/ 2	22.23	122.61	224.56	226.02	62.02	34.56	692.00
1	62	2/ 2	42.28	277.84	545.58	539.71	130.70	51.67	1587.80

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	61	1/ 2	H2O =38.1	POROSITY = .1884
			SOLIDS=61.9	VOID RATIO= .2322
1	61	1/ 2	H2O =44.4	POROSITY = .2319
			SOLIDS=55.6	VOID RATIO= .3019
2	62	2/ 2	H2O =37.3	POROSITY = .1834
			SOLIDS=62.7	VOID RATIO= .2246
1	62	2/ 2	H2O =46.1	POROSITY = .2441
			SOLIDS=53.9	VOID RATIO= .3229

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	61	1/ 2	TOC	= 2.05
1	61	1/ 2	TOC	= 3.63
2	62	2/ 2	TOC	= 2.90

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	6	62	76 9 21	1235	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 2/ 2 TOC = 3.77

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 1/ 2 O-G = .93
1 61 1/ 2 O-G = 1.40
2 62 2/ 2 O-G = 1.26
1 62 2/ 2 O-G = 1.10

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	7	65	76 9 21	1245	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT			WITH UNITS:NANOGRAMS NCB PER GM DRY MASS						
2	65	1/ 2	29.63	232.95	506.93	613.83	170.60	80.22	1634.20
1	65	1/ 2	87.38	687.33	1279.50	1118.70	229.36	124.77	3527.00
2	65	2/ 2	.02	934.83	1651.80	1156.40	226.09	103.72	4072.90
1	65	2/ 2	40.59	427.79	1010.70	1253.40	285.18	123.53	3141.20

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	65	1/ 2	H2O =43.2	POROSITY = .2227
			SOLIDS=56.8	VOID RATIO= .2865
1	65	1/ 2	H2O =46.4	POROSITY = .2463
			SOLIDS=53.6	VOID RATIO= .3268
2	65	2/ 2	H2O =49.2	POROSITY = .2678
			SOLIDS=50.8	VOID RATIO= .3657
1	65	2/ 2	H2O =44.1	POROSITY = .2293
			SOLIDS=55.9	VOID RATIO= .2974

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	65	1/ 2	TOC = 2.64
1	65	1/ 2	TOC = 3.65
2	65	2/ 2	TOC = 3.64

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	7	65	76	9	21	1250	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 65 2/ 2 TOC = 3.09

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 65 1/ 2 O-G = 2.98
1 65 1/ 2 O-G = 1.68
2 65 2/ 2 O-G = .00
1 65 2/ 2 O-G = 1.34

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	8	68	76 9 21	1300	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	68	2/ 2	24.26	130.57	235.21	256.68	81.77	47.49	775.98
1	68	1/ 2	57.71	201.77	405.01	441.76	112.43	63.03	1281.70
2	67	2/ 2	.01	159.42	248.41	282.01	97.47	62.24	849.57
1	67	2/ 2	55.86	281.43	469.70	447.78	101.84	41.87	1398.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	68	2/ 2	H2O =41.8	POROSITY =	.2132
			SOLIDS=58.2	VOID RATIO=	.2709
1	68	1/ 2	H2O =50.1	POROSITY =	.2746
			SOLIDS=49.9	VOID RATIO=	.3785
2	67	2/ 2	H2O =41.6	POROSITY =	.2118
			SOLIDS=58.4	VOID RATIO=	.2687
1	67	2/ 2	H2O =46.0	POROSITY =	.2432
			SOLIDS=54.0	VOID RATIO=	.3213

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	68	2/ 2	TOC	= 2.38
1	68	1/ 2	TOC	= 3.01
2	67	2/ 2	TOC	= 2.12

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	8	67	76	9	21	1305	122 21.35	47 35.43

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 67 2/ 2 TOC = 2.39

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 68 2/ 2 O-G = 1.29
1 68 1/ 2 O-G = 1.21
2 67 2/ 2 O-G = 1.02
1 67 2/ 2 O-G = 1.08

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	9	62	76 9 21	1325	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	62	1/ 2	24.94	117.61	193.42	203.10	61.26	35.21	635.54
1	62	1/ 2	43.42	438.67	893.59	588.17	113.50	72.03	2149.40
2	61	2/ 2	.01*	128.15	206.82	219.89	70.39	40.40	665.66
1	61	2/ 2	25.26	252.40	439.52	302.09	52.14	20.99	1092.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	62	1/ 2	H2O =35.9	POROSITY =	.1747
			SOLIDS=64.1	VOID RATIO=	.2117
1	62	1/ 2	H2O =48.7	POROSITY =	.2634
			SOLIDS=51.3	VOID RATIO=	.3576
2	61	2/ 2	H2O =35.7	POROSITY =	.1735
			SOLIDS=64.3	VOID RATIO=	.2099
1	61	2/ 2	H2O =45.9	POROSITY =	.2428
			SOLIDS=54.1	VOID RATIO=	.3208

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	62	1/ 2	TOC	= 2.32
1	62	1/ 2	TOC	= 3.15
2	61	2/ 2	TOC	= 1.57

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	9	61	76 9 21	1330	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 61 2/ 2 TOC = 3.11

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 62 1/ 2 O-G = .93
1 62 1/ 2 O-G = 1.62
2 61 2/ 2 O-G = 1.03
1 61 2/ 2 O-G = 1.20

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	10	61	76 9 21	1340	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMEN				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	61	1	[illegible].30	409.85	585.45	425.08	92.06	42.31	1620.50
1	61	1/ .	.77	387.21	881.73	925.36	211.58	84.28	2529.90
2	62	2/ 2	[illegible]4.70	596.80	998.70	802.30	171.30	77.52	2781.00
1	62	2/ 2	44.81	332.78	882.82	1195.00	308.49	121.42	2885.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	61	1/ 2	H2O =36.4	POROSITY =	.1773
			SOLIDS=63.6	VOID RATIO=	.2155
1	61	1/ 2	H2O =48.4	POROSITY =	.2614
			SOLIDS=51.6	VOID RATIO=	.3540
2	62	2/ 2	H2O =43.0	POROSITY =	.2218
			SOLIDS=57.0	VOID RATIO=	.2850
1	62	2/ 2	H2O =51.3	POROSITY =	.2848
			SOLIDS=48.7	VOID RATIO=	.3983

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	61	1/ 2	TOC	= 2.54
1	61	1/ 2	TOC	= 2.70
2	62	2/ 2	TOC	= 3.38

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	10	62	76	9	21	1345	122 21.44	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 2/ 2 TOC = 3.05

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 1/ 2 O-G = 1.92
1 61 1/ 2 O-G = 1.61
2 62 2/ 2 O-G = 2.82
1 62 2/ 2 O-G = 1.72

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	11	61	76 9 21	1352	122 21.40	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	61	1/ 2	58.47	347.30	604.40	486.70	100.10	47.81	1645.00
1	61	1/ 2	49.43	573.08	1055.30	767.65	153.51	76.74	2675.70
2	62	2/ 2	62.89	509.20	972.40	795.00	161.70	73.99	2575.00
1	62	1/ 2	.02	561.24	1728.40	2349.60	695.25	309.06	5643.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	61	1/ 2	H2O =43.6	POROSITY =	.2255
			SOLIDS=56.4	VOID RATIO=	.2912
1	61	1/ 2	H2O =53.6	POROSITY =	.3032
			SOLIDS=46.4	VOID RATIO=	.4352
2	62	2/ 2	H2O =45.8	POROSITY =	.2419
			SOLIDS=54.2	VOID RATIO=	.3191
1	62	1/ 2	H2O =51.7	POROSITY =	.2880
			SOLIDS=48.3	VOID RATIO=	.4044

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	61	1/ 2	TOC	= 4.28
1	61	1/ 2	TOC	= 4.25
2	62	2/ 2	TOC	= 4.00

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	11	62	76	9	21	1357	122 21.40	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 1/ 2 TOC = 3.47

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 61 1/ 2 O-G = 2.51
1 61 1/ 2 O-G = 2.13
2 62 2/ 2 O-G = 2.89
1 62 1/ 2 O-G = 1.70

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	12	66	76	9	21	1415	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	12.07	37.75	90.86	161.00	65.43	44.74	411.90
1	66	1/ 2	45.36	305.30	708.71	897.00	227.50	89.43	2273.30
2	67	2/ 2	27.96	148.57	236.75	247.61	85.22	55.24	801.35
1	67	2/ 2	70.12	439.46	2576.50	6174.00	1818.70	637.43	*716.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =36.0	POROSITY =	.1751
			SOLIDS=64.0	VOID RATIO=	.2123
1	66	1/ 2	H2O =50.4	POROSITY =	.2774
			SOLIDS=49.6	VOID RATIO=	.3838
2	67	2/ 2	H2O =39.4	POROSITY =	.1971
			SOLIDS=60.6	VOID RATIO=	.2455
1	67	2/ 2	H2O =49.5	POROSITY =	.2699
			SOLIDS=50.5	VOID RATIO=	.3697

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	66	1/ 2	TOC	= 1.83
1	66	1/ 2	TOC	= 2.19
2	67	2/ 2	TOC	= 3.05

CRUISE-265 STATION- 12

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	12	67	76	9	21	1420	122 21.35	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 67 2/ 2 TOC = 1.83

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 66 1/ 2 O-G = 1.13
1 66 1/ 2 O-G = 1.03
2 67 2/ 2 O-G = .99
1 67 2/ 2 O-G = 1.11

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	13	59	76 9 21	1430	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	59	2/ 2	.00*	5.40	29.00	63.85	24.49	15.05	137.80
1	59	1/ 2	.02	124.71	269.97	305.08	84.12	44.18	828.09
2	58	2/ 2	.01*	17.46	78.61	225.46	127.81	81.14	530.49
1	58	2/ 2	22.17	172.40	383.35	441.73	126.02	55.62	1201.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	59	2/ 2	H2O =28.2	POROSITY =	.1290
			SOLIDS=71.8	VOID RATIO=	.1481
1	59	1/ 2	H2O =45.1	POROSITY =	.2364
			SOLIDS=54.9	VOID RATIO=	.3097
2	58	2/ 2	H2O =25.8	POROSITY =	.1161
			SOLIDS=74.2	VOID RATIO=	.1313
1	58	2/ 2	H2O =49.4	POROSITY =	.2691
			SOLIDS=50.6	VOID RATIO=	.3681

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	59	2/ 2	TOC	= 1.00
1	59	1/ 2	TOC	= 2.46
2	58	2/ 2	TOC	= 1.81

CRUISE-265 STATION- 13

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	13	58	76	9	21	1447	122 21.49	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 58 2/ 2 TOC = 2.30

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 59 2/ 2 O-G = 1.06
1 59 1/ 2 O-G = 1.10
2 58 2/ 2 O-G = .94
1 58 2/ 2 O-G = .93

CRUISE	STATION	WATER	PTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	14		60	76 5 21	1500	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	60	1/ 2	14.37	88.03	163.63	251.48	109.14	64.31	690.96
1	60	1/ 2	45.96	319.61	685.92	815.69	208.32	80.88	2156.40
2	60	2/ 2	.01*	57.28	106.94	140.46	49.22	29.57	383.47
1	60	2/ 2	40.46	257.09	539.47	647.19	167.22	62.96	1714.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	60	1/ 2	H2O =38.4	POROSITY =	.1903
			SOLIDS=61.6	VOID RATIO=	.2350
1	60	1/ 2	H2O =48.7	POROSITY =	.2636
			SOLIDS=51.3	VOID RATIO=	.3580
2	60	2/ 2	H2O =32.2	POROSITY =	.1522
			SOLIDS=67.8	VOID RATIO=	.1796
1	60	2/ 2	H2O =45.7	POROSITY =	.2414
			SOLIDS=54.2	VOID RATIO=	.3182

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	60	1/ 2	TOC	= 2.72
1	60	1/ 2	TOC	= 3.52
2	60	2/ 2	TOC	= 2.04

CRUISE-265 STATION- 14

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	14	60	76 9 21	1507	122 21.44	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 60 2/ 2 TOC = 2.83

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 60 1/ 2 O-G = 1.04
1 60 1/ 2 O-G = 1.18
2 60 2/ 2 O-G = .77
1 60 2/ 2 O-G = .92

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	15	62	76 9 21	1516	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	62	1/ 2	26.48	25.30	64.79	133.59	76.77	57.52	384.44
1	62	1/ 2	40.10	264.43	506.83	543.72	137.45	58.16	1550.70
2	62	2/ 2	63.94	106.47	165.02	185.00	63.97	39.22	623.62
1	62	2/ 2	49.72	349.80	753.79	837.83	225.22	91.67	2308.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	62	1/ 2	H2O =34.6	POROSITY =	.1663
			SOLIDS=65.4	VOID RATIO=	.1995
1	62	1/ 2	H2O =48.3	POROSITY =	.2608
			SOLIDS=51.7	VOID RATIO=	.3528
2	62	2/ 2	H2O =34.6	POROSITY =	.1663
			SOLIDS=65.4	VOID RATIO=	.1995
1	62	2/ 2	H2O =50.2	POROSITY =	.2753
			SOLIDS=49.8	VOID RATIO=	.3799

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	62	1/ 2	TOC	= 1.87
1	62	1/ 2	TOC	= 2.90
2	62	2/ 2	TOC	= 1.80

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	15	62	76 9 21	1545	122 21.40	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 2/ 2 TOC = 2.91

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 62 1/ 2 O-G = .57
1 62 1/ 2 O-G = .98
2 62 2/ 2 O-G = .80
1 62 2/ 2 O-G = .90

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	16	66	76 9 21	1600	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	66	1/ 2	.01	18.78	98.76	243.51	115.20	72.12	548.39
1	66	1/ 2	32.93	253.39	531.90	548.02	130.14	57.78	1554.20
2	65	2/ 2	.01	70.04	161.74	237.98	92.38	55.30	617.44
1	65	2/ 2	.02	244.72	486.54	534.37	137.65	72.24	1475.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	66	1/ 2	H2O =39.9	POROSITY = .2000
			SOLIDS=60.1	VOID RATIO= .2500
1	66	1/ 2	H2O =48.8	POROSITY = .2643
			SOLIDS=51.2	VOID RATIO= .3592
2	65	2/ 2	H2O =43.0	POROSITY = .2215
			SOLIDS=57.0	VOID RATIO= .2845
1	65	2/ 2	H2O =50.4	POROSITY = .2773
			SOLIDS=49.6	VOID RATIO= .3837

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	66	1/ 2	TOC = 1.94
1	66	1/ 2	TOC = 3.32
2	65	2/ 2	TOC = 2.01

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	16	65	76 9 21	1608	122 21.35	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 65 2/ 2 TOC = 3.19

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 66 1/ 2 O-G = .73
1 66 1/ 2 O-G = 1.11
2 65 2/ 2 O-G = 1.15
1 65 2/ 2 O-G = 1.24

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	17	60	76 9 21	1720	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	60	1/ 2	.00*	.84	5.24	15.13	7.96	5.66	34.84
1	60	1/ 2	.00*	.67	13.06	38.58	17.37	11.28	80.96
2	61	2/ 2	.00*	1.20	5.88	17.96	9.61	6.81	41.46
1	61	2/ 2	.00*	1.25	11.28	31.77	15.25	9.39	68.94

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	60	1/ 2	H2O =26.5	POROSITY =	.1200
			SOLIDS=73.5	VOID RATIO=	.1363
1	60	1/ 2	H2O =34.9	POROSITY =	.1682
			SOLIDS=65.1	VOID RATIO=	.2023
2	61	2/ 2	H2O =26.9	POROSITY =	.1219
			SOLIDS=73.1	VOID RATIO=	.1388
1	61	2/ 2	H2O =43.3	POROSITY =	.2237
			SOLIDS=56.7	VOID RATIO=	.2882

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	60	1/ 2	TOC =	.84
1	60	1/ 2	TOC =	1.11
2	61	2/ 2	TOC =	.99

CRUISE-265 STATION- 17

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	17	61	76 9 21	1730	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 [illegible] 2/ 2 TOC = 1.73

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 60 1/ 2 O-G = .38
1 60 [illegible] 2 O-G = .30
2 61 [illegible] 2 O-G = .43
1 61 2/ 2 O-G = .33

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	18	70	76 9 21	1735	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	70	1/ 2	.00*	3.07	19.04	45.05	21.65	14.00	102.82
1	70	1/ 2	.00*	2.49	19.63	54.19	24.54	19.26	120.13
2	63	2/ 2	.00*	.27	2.69	10.25	5.78	4.52	23.51
1	63	2/ 2	.00*	.71	11.61	34.62	16.86	11.46	75.28

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	70	1/ 2	H2O =34.2	POROSITY = .1642
			SOLIDS=65.8	VOID RATIO= .1965
1	70	1/ 2	H2O =51.2	POROSITY = .2835
			SOLIDS=48.8	VOID RATIO= .3956
2	63	2/ 2	H2O =26.1	POROSITY = .1176
			SOLIDS=73.9	VOID RATIO= .1332
1	63	2/ 2	H2O =38.0	POROSITY = .1876
			SOLIDS=62.0	VOID RATIO= .2309

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	70	1/ 2	TOC = 1.92
1	70	1/ 2	TOC = 1.61
2	63	2/ 2	TOC = .71

CRUISE-265 STATION- 18

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	18	63	76	9	21	1741	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 63 2/ 2 TOC = 1.13

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 70 1/ 2 O-G = .60
1 70 1/ 2 O-G = .45
2 63 2/ 2 O-G = .27
1 63 2/ 2 O-G = .39

CRUISE-265 STATION- 18

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	19	56	76	9	21	1630	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	56	1/ 2	.01*	13.14	65.86	232.59	125.26	90.67	527.52
1	56	1/ 2	.00*	8.50	60.01	202.80	111.30	83.60	466.30
2	54	2/ 2	1.97	8.15	43.33	137.27	76.02	56.10	322.84
1	54	2/ 2	.01*	10.43	74.42	237.57	118.01	84.06	524.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	56	1/ 2	H2O =44.3	POROSITY = .2311
			SOLIDS=55.7	VOID RATIO= .3005
1	56	1/ 2	H2O =60.4	POROSITY = .3651
			SOLIDS=39.6	VOID RATIO= .5749
2	54	2/ 2	H2O =39.6	POROSITY = .1983
			SOLIDS=60.4	VOID RATIO= .2474
1	54	2/ 2	H2O =51.0	POROSITY = .2821
			SOLIDS=49.0	VOID RATIO= .3929

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	56	1/ 2	TOC = 1.40
1	56	1/ 2	TOC = 2.33
2	54	2/ 2	TOC = 1.54

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	19	54	76 9 21	1636	122 20.38	47 36.00

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 54 2/ 2 TOC = 1.57

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 56 1/ 2 O-G = 2.21
1 56 1/ 2 O-G = 1.82
2 54 2/ 2 O-G = 1.49
1 54 2/ 2 O-G = 1.39

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	20	64	76 9 21	1655	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	.01*	5.99	21.87	85.63	47.54	38.98	200.02
1	64	1/ 2	.00*	6.92	55.46	195.10	109.70	85.61	452.80
2	63	2/ 2	6.54	12.89	64.53	198.12	97.70	69.00	448.79
1	63	2/ 2	.00*	7.02	43.74	158.60	87.21	63.80	360.40

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =38.8	POROSITY =	.1928
			SOLIDS=61.2	VOID RATIO=	.2388
1	64	1/ 2	H2O =52.9	POROSITY =	.2980
			SOLIDS=47.1	VOID RATIO=	.4245
2	63	2/ 2	H2O =42.7	POROSITY =	.2197
			SOLIDS=57.3	VOID RATIO=	.2816
1	63	2/ 2	H2O =48.0	POROSITY =	.2582
			SOLIDS=52.0	VOID RATIO=	.3481

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	64	1/ 2	TOC	= 1.13
1	64	1/ 2	TOC	= 1.75
2	63	2/ 2	TOC	= 1.39

CRUISE-265 STATION- 20

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
265	20	63	76	9	21	1700	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	63	2/ 2 TOC	= 2.57

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	64	1/ 2 O-G	= 2.35
1	64	1/ 2 O-G	= 1.83
2	63	2/ 2 O-G	= 1.89
1	63	2/ 2 O-G	= 1.74

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
266	6	55	76 9 22	1046	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	55	1/ 2	.00*	.08	.32	.26	.02	.00*	.68
2	46	1/ 2	.00*	.23	.38	.27	.04	.01*	.93
1	1	1/ 2	.00*	.42	.45	.23	.02	.00*	1.12
3	57	2/ 2	.00*	.29	.83	1.02	.16	.08	2.38
2	48	2/ 2	.00*	.52	.94	1.19	.15	.05	2.85
1	1	2/ 2	.00*	.48	1.65	2.83	.87	.13	5.96
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	55	1/ 2	.00*	.04	.06	.05	.01	.01	.17
2	46	1/ 2	.00*	.12	.16	.17	.04	.02	.52
1	1	1/ 2	.00*	.15	.21	.39	.15	.02	.91
3	57	2/ 2	.00*	.16	.24	.32	.07	.02	.81
2	48	2/ 2	.00*	.21	.23	.21	.04	.02	.72
1	1	2/ 2	.00*	.24	.30	.30	.05	.03	.92

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
266	10	57	76 9 22	1200	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	57	1/ 2	.00*	.48	1.19	1.20	.24	.02	3.13
2	48	1/ 2	.00*	.33	.42	.88	.02	.00*	1.65
1	1	1/ 2	.00*	.18	.39	.53	.06	.04	1.20
3	60	2/ 2	.00*	.50	1.21	1.38	.15	.02	3.25
2	51	2/ 2	.00*	.25	.41	.38	.05	.05	1.14
1	1	2/ 2	.00*	.51	.85	1.02	.43	.53	3.35
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	57	1/ 2	.00*	.11	.17	.26	.09	.02	.66
2	49	1/ 2	.00*	.05	.09	.14	.02	.01	.31
1	1	1/ 2	.00*	.15	.13	.24	.07	.01	.59
3	60	2/ 2	.00*	.02	.17	.23	.08	.02	.51
2	51	2/ 2	.00*	.01	.08	.15	.02	.02	.28
1	1	2/ 2	.00*	.01	.18	.32	.05	.01	.58

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
266	17	1	76 9 22	900	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.09	.51	.61	.08	.02	1.30
3	47	1/ 2	.00*	.37	.42	.43	.11	.01*	1.35
2	38	1/ 2	.00*	.26	.27	.19	.05	.00*	.77
3	50	2/ 2	.00*	.02	1.11	.92	.11	.00*	2.16
2	41	2/ 2	.00*	.21	.29	.36	.08	.00*	.94
1	1	2/ 2	.00*	.30	.83	.98	.18	.00*	2.29
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
1	1	1/ 2	.00*	.11	.18	.26	.11	.06	.72
3	47	1/ 2	.00*	.14	.20	.28	.13	.09	.84
2	38	1/ 2	.00*	.06	.12	.16	.07	.05	.47
3	50	2/ 2	.00*	.06	.13	.14	.06	.07	.46
2	41	2/ 2	.00*	.05	.09	.13	.07	.06	.39
1	1	2/ 2	.00*	.09	.18	.23	.06	.04	.60

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
266	19	53	76 9 22	1357	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	53	1/ 2	.00*	.38	.64	1.25	.29	.14	2.70
2	44	1/ 2	.00*	.15	.40	.39	.07	.00*	1.01
1	1	1/ 2	.00*	.56	.93	1.07	.28	.07	2.90
2	46	2/ 2	.00*	.32	.60	.68	.20	.00*	1.81
1	1	2/ 2	.00*	.37	.96	1.46	.47	.16	3.43
3	55	2/ 2	.00*	.42	.41	.67	.15	.00*	1.65
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	53	1/ 2	.00*	.36	.74	1.23	.77	.52	3.63
2	44	1/ 2	.00*	.50	.41	.32	.09	.03	1.35
1	1	1/ 2	.00*	.73	.76	.54	.18	.21	2.43
2	46	2/ 2	.00*	.39	.36	.28	.09	.06	1.17
1	1	2/ 2	.00*	.08	.13	.17	.08	.05	.52
3	55	2/ 2	.00*	.46	.42	.30	.10	.06	1.34

CRUISE	STATION	WATER DEPTH	YR	MON	DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
266	44	32	76	9	22	1430	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	32	1/ 2	.00*	.23	.25	.36	.05	.00*	.89
3	43	1/ 2	.00*	.29	.36	.43	.09	.00*	1.17
1	1	1/ 2	.00*	.18	.91	.82	.11	.03	2.05
3	41	2/ 2	.00*	.29	.44	.60	.09	.00*	1.42
2	32	2/ 2	.00*	.37	.44	.36	.08	.02	1.27
1	1	2/ 2	.00*	.14	.59	.85	.05	.00*	1.62
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
2	34	1/ 2	.00*	.26	.21	.16	.08	.13	.84
3	43	1/ 2	.00*	.32	.25	.19	.09	.16	1.01
1	1	1/ 2	.00*	.23	.32	.37	.14	.09	1.16
3	41	2/ 2	.00*	.48	.31	.34	.19	.22	1.55
2	34	2/ 2	.00*	.11	.22	.25	.08	.05	.70
1	1	2/ 2	.00*	.30	.18	.26	.13	.08	.96

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	1	64	76 12 7	1028	122 21.49	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	64	1/ 2	52.38	316.25	683.70	738.56	184.66	78.87	2054.40
2	64	1/ 2	.01	16.66	54.11	115.15	64.10	43.39	293.42
1	64	2/ 2	36.61	275.65	593.61	606.50	134.54	48.63	1695.50
2	64	2/ 2	.01	128.64	254.47	307.33	100.64	61.61	852.70

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	64	1/ 2	H2O =47.3	POROSITY = .2528
			SOLIDS=52.7	VOID RATIO= .3384
2	64	1/ 2	H2O =35.6	POROSITY = .1724
			SOLIDS=64.4	VOID RATIO= .2083
1	64	2/ 2	H2O =52.9	POROSITY = .2978
			SOLIDS=47.1	VOID RATIO= .4241
2	64	2/ 2	H2O =42.7	POROSITY = .2193
			SOLIDS=57.3	VOID RATIO= .2809

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	64	1/ 2	TOC = 3.38
2	64	1/ 2	TOC = 1.84
1	64	2/ 2	TOC = 3.12

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	1	64	76 12 7	1042	122 21.49	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 64 2/ 2 TOC = 2.39

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 64 1/ 2 O-G = 1.38
2 64 1/ 2 O-G = .95
1 64 2/ 2 O-G = 1.33
2 64 2/ 2 O-G = 1.43

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	2	64	76 12 7	1056	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	64	1/ 2	11.86	198.33	346.93	256.53	51.74	30.68	896.07
2	64	2/ 2	9.39	30.89	69.34	130.14	55.19	38.69	333.62
1	64	2/ 2	.02	141.35	261.41	227.85	56.42	24.34	711.39
2	64	2/ 2	10.30	65.05	172.09	251.96	89.06	54.36	642.81

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	64	1/ 2	H2O =47.8	POROSITY =	.2566
			SOLIDS=52.2	VOID RATIO=	.3452
2	64	2/ 2	H2O =35.6	POROSITY =	.1727
			SOLIDS=64.4	VOID RATIO=	.2087
1	64	2/ 2	H2O =43.6	POROSITY =	.2261
			SOLIDS=56.4	VOID RATIO=	.2921
2	64	2/ 2	H2O =37.8	POROSITY =	.1864
			SOLIDS=62.2	VOID RATIO=	.2291

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	64	1/ 2	TOC	= 2.72
2	64	2/ 2	TOC	= 1.47
1	64	2/ 2	TOC	= 2.43

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	2	64	76 12 7	1107	122 21.44	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 64 2/ 2 TOC = 1.25

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 64 1/ 2 O-G = 1.00
2 64 2/ 2 O-G = .77
1 64 2/ 2 O-G = .94
2 64 2/ 2 O-G = .81

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	3	67	76 12 7	1117	122 21.40	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	67	1/ 2	21.83	211.01	352.49	333.96	91.60	35.04	1045.90
2	67	1/ 2	4.12	61.39	136.42	188.79	65.80	42.47	499.00
1	71	2/ 2	29.98	259.89	527.22	470.86	114.04	57.02	1459.00
2	71	2/ 2	1.80	25.62	98.11	153.32	86.61	75.81	441.27

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	67	1/ 2	H2O =49.2	POROSITY =	.2674
			SOLIDS=50.8	VOID RATIO=	.3649
2	67	1/ 2	H2O =34.6	POROSITY =	.1664
			SOLIDS=65.4	VOID RATIO=	.1997
1	71	2/ 2	H2O =48.4	POROSITY =	.2614
			SOLIDS=51.6	VOID RATIO=	.3540
2	71	2/ 2	H2O =37.6	POROSITY =	.1852
			SOLIDS=62.4	VOID RATIO=	.2273

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	67	1/ 2	TOC	= 3.20
2	67	1/ 2	TOC	= 1.41
1	71	2/ 2	TOC	= 2.77

CRUISE-342 STATION- 3

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	3	71	76 12 7	1128	122 21.40	47 35.46

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 71 2/ 2 TOC = 1.44

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 67 1/ 2 O-G = 1.06
2 67 1/ 2 O-G = .66
1 71 2/ 2 O-G = 1.26
2 71 2/ 2 O-G = 1.14

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	4	71	76 12 7	1137	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	71	1/ 2	36.00	281.05	547.48	542.99	124.31	52.05	1583.90
2	71	1/ 2	2.23	39.20	124.80	252.15	179.21	168.27	765.85
1	70	2/ 2	22.47	238.25	448.63	425.04	119.13	41.41	1294.90
2	70	2/ 2	14.04	92.71	200.32	282.43	102.92	56.40	748.82

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	71	1/ 2	H2O =52.0	POROSITY =	.2904
			SOLIDS=48.0	VOID RATIO=	.4092
2	71	1/ 2	H2O =42.3	POROSITY =	.2169
			SOLIDS=57.7	VOID RATIO=	.2769
1	70	2/ 2	H2O =50.5	POROSITY =	.2777
			SOLIDS=49.5	VOID RATIO=	.3844
2	70	2/ 2	H2O =39.9	POROSITY =	.2006
			SOLIDS=60.1	VOID RATIO=	.2510

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	71	1/ 2	TOC	= 2.99
2	71	1/ 2	TOC	= 1.52
1	70	2/ 2	TOC	= 2.96

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	4	70	76 12 7	1150	122 21.35	47 35.46

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 70 2/ 2 TOC = 2.14

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 71 1/ 2 O-G = 1.33
2 71 1/ 2 O-G = 1.08
1 70 2/ 2 O-G = 1.25
2 70 2/ 2 O-G = 1.03

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	5	64	76 12 7	1210	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	64	1/ 2	61.21	442.60	842.10	781.70	177.70	79.27	2385.00
2	64	1/ 2	44.23	250.20	397.22	279.33	63.77	33.86	1068.60
1	64	2/ 2	73.38	438.77	971.53	999.07	214.21	96.39	2793.40
2	64	2/ 2	404.51	746.41	1394.90	1058.40	213.88	105.45	3923.50

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	64	1/ 2	H2O =45.3	POROSITY =	.2380
			SOLIDS=54.7	VOID RATIO=	.3124
2	64	1/ 2	H2O =38.4	POROSITY =	.1903
			SOLIDS=61.6	VOID RATIO=	.2350
1	64	2/ 2	H2O =50.1	POROSITY =	.2747
			SOLIDS=49.9	VOID RATIO=	.3787
2	64	2/ 2	H2O =47.7	POROSITY =	.2561
			SOLIDS=52.3	VOID RATIO=	.3443

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	64	1/ 2	TOC	= 4.21
2	64	1/ 2	TOC	= 3.33
1	64	2/ 2	TOC	= 3.65

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	5	64	76 12 7	1343	122 21.49	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 64 2/ 2 TOC = 4.95

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 64 1/ 2 O-G = 2.62
2 64 1/ 2 O-G = 1.41
1 64 2/ 2 O-G = 2.00
2 64 2/ 2 O-G = 2.80

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	6	64	76 12 7	1354	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	64	1/ 2	80.54	624.51	1842.70	2612.70	749.84	284.47	6194.80
2	64	1/ 2	79.69	501.03	946.39	721.06	161.42	82.86	2492.50
1	72	2/ 2	72.75	379.43	684.39	702.20	125.16	65.13	2029.10
2	72	2/ 2	36.04	167.03	251.40	170.60	35.20	19.18	679.63

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	64	1/ 2	H2O =51.7	POROSITY =	.2875
			SOLIDS=48.3	VOID RATIO=	.4036
2	64	1/ 2	H2O =45.8	POROSITY =	.2421
			SOLIDS=54.2	VOID RATIO=	.3195
1	72	2/ 2	H2O =46.8	POROSITY =	.2490
			SOLIDS=53.2	VOID RATIO=	.3316
2	72	2/ 2	H2O =35.8	POROSITY =	.1737
			SOLIDS=64.2	VOID RATIO=	.2102

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	64	1/ 2	TOC	= 3.57
2	64	1/ 2	TOC	= 3.68
1	72	2/ 2	TOC	= 3.37

RUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	6	72	76 12 7	1410	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	72	2/ 2 TOC	= 2.17

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

	64	1/ 2 O-G	= 2.09
	64	1/ 2 O-G	= 2.39
.	72	2/ 2 O-G	= 1.20
	72	2/ 2 O-G	= 1.35

CRUISE-342 STATION- 6

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	7	70	76 12 7	1440	122 21.40	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	70	1/ 2	75.09	366.27	774.67	1097.30	223.10	80.02	2616.50
2	70	1/ 2	63.28	369.83	813.49	1022.90	296.07	123.02	2688.60
1	70	2/ 2	48.52	294.98	603.79	664.91	168.98	65.51	1846.70
2	70	2/ 2	14.78	108.09	202.68	190.85	59.30	41.09	616.79

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	70	1/ 2	H2O =46.5	POROSITY =	.2471
			SOLIDS=53.5	VOID RATIO=	.3282
2	70	1/ 2	H2O =38.7	POROSITY =	.1927
			SOLIDS=61.3	VOID RATIO=	.2387
1	70	2/ 2	H2O =44.4	POROSITY =	.2315
			SOLIDS=55.6	VOID RATIO=	.3012
2	70	2/ 2	H2O =39.9	POROSITY =	.2005
			SOLIDS=60.1	VOID RATIO=	.2507

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	70	1/ 2	TOC	= 2.86
2	70	1/ 2	TOC	= 2.53
1	70	2/ 2	TOC	= 2.30

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	7	70	76 12 7	1452	122 21.40	47 35.43

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 70 2/ 2 TOC = 2.16

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 70 1/ 2 O-G = .00
2 70 1/ 2 O-G = 1.42
1 70 2/ 2 O-G = 1.01
2 70 2/ 2 O-G = .98

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	8	70	76 12 7	1517	122 21.35	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	70	1/ 2	66.47	302.50	669.46	687.66	119.33	69.47	1914.90
2	70	1/ 2	4.86	49.92	101.41	131.30	48.02	32.08	367.61
1	70	2/ 2	51.26	291.66	550.28	517.88	128.08	55.28	1594.40
2	70	2/ 2	14.30	97.17	161.97	194.68	97.16	76.64	641.94

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	70	1/ 2	H2O =48.5	POROSITY =	.2622
			SOLIDS=51.5	VOID RATIO=	.3553
2	70	1/ 2	H2O =37.5	POROSITY =	.1846
			SOLIDS=62.5	VOID RATIO=	.2264
1	70	2/ 2	H2O =45.0	POROSITY =	.2356
			SOLIDS=55.0	VOID RATIO=	.3082
2	70	2/ 2	H2O =40.6	POROSITY =	.2050
			SOLIDS=59.4	VOID RATIO=	.2579

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	70	1/ 2	TOC	= 2.69
2	70	1/ 2	TOC	= 1.47
1	70	2/ 2	TOC	= 1.16

CRUISE-342 STATION-

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	8	70	76 12 7	1600	122 21.35	47 35.43

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 70 2/ 2 TOC = 2.07

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 70 1/ 2 O-G = .96
2 70 1/ 2 O-G = .90
1 70 2/ 2 O-G = 1.00
2 70 2/ 2 O-G = 1.08

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	9	51	76 12 7	1615	122 21.49	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	51	1/ 2	39.88	120.66	216.03	213.87	73.32	47.59	711.35
1	51	1/ 2	73.44	424.97	864.88	756.45	140.66	80.06	2340.50
2	61	2/ 2	67.45	354.98	432.13	293.54	61.39	30.98	1240.50
1	61	2/ 2	54.94	244.41	587.76	778.25	223.81	82.62	1971.80

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	51	1/ 2	H2O =37.3	POROSITY = .1833
			SOLIDS=62.7	VOID RATIO= .2244
1	51	1/ 2	H2O =47.8	POROSITY = .2570
			SOLIDS=52.2	VOID RATIO= .3459
2	61	2/ 2	H2O =38.8	POROSITY = .1934
			SOLIDS=61.2	VOID RATIO= .2397
1	61	2/ 2	H2O =47.0	POROSITY = .2507
			SOLIDS=53.0	VOID RATIO= .3346

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

51	1/ 2	TOC	= 2.03
51	1/ 2	TOC	= 2.81
61	2/ 2	TOC	= 3.71

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	9	61	76 12 7	1618	122 21.49	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 61 2/ 2 TOC = 2.28

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 51 1/ 2 O-G = 1.14
1 51 1/ 2 O-G = 1.37
2 61 2/ 2 O-G = 1.91
1 61 2/ 2 O-G = .90

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	10	65	76 12 7	1630	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	65	1/ 2	57.90	451.20	826.43	626.97	135.73	64.74	2163.00
1	65	1/ 2	44.87	390.80	1746.10	3167.00	931.68	321.32	6601.90
2	62	2/ 2	65.89	498.26	838.29	597.36	124.12	60.66	2184.60
1	62	2/ 2	51.96	329.50	792.01	935.25	253.50	94.09	2456.30

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	65	1/ 2	H2O =39.3	POROSITY =	.1963
			SOLIDS=60.7	VOID RATIO=	.2443
1	65	1/ 2	H2O =55.5	POROSITY =	.3197
			SOLIDS=44.5	VOID RATIO=	.4700
2	62	2/ 2	H2O =44.8	POROSITY =	.2346
			SOLIDS=55.2	VOID RATIO=	.3065
1	62	2/ 2	H2O =51.2	POROSITY =	.2837
			SOLIDS=48.8	VOID RATIO=	.3961

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	65	1/ 2	TOC	= 4.99
1	65	1/ 2	TOC	= 3.88
2	62	2/ 2	TOC	= 5.07

CRUISE-342 STATION- 10

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	10	62	76 12 7	1638	122 21.44	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 62 2/ 2 TOC = 3.37

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 65 1/ 2 O-G = 3.17
1 65 1/ 2 O-G = 2.37
2 62 2/ 2 O-G = 2.67
1 62 2/ 2 O-G = 1.55

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	11	69	76 12 7	1646	122 21.40	47 35.40

C	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

YPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

69	1/ 2	71.31	494.83	1251.00	1737.50	774.96	438.98	4768.60
69	1/ 2	53.71	357.97	670.09	517.09	109.65	48.99	1757.50
68	2/ 2	57.26	227.28	357.86	279.73	66.24	32.03	1020.40
68	2/ 2	10.30	126.30	205.82	105.46	31.48	19.91	499.26

YPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

69	1/ 2	H2O =54.1	POROSITY =	.3076
		SOLIDS=45.9	VOID RATIO=	.4443
69	1/ 2	H2O =48.3	POROSITY =	.2604
		SOLIDS=51.7	VOID RATIO=	.3521
68	2/ 2	H2O =48.5	POROSITY =	.2621
		SOLIDS=51.5	VOID RATIO=	.3553
68	2/ 2	H2O =33.2	POROSITY =	.1579
		SOLIDS=66.8	VOID RATIO=	.1876

PE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

69	1/ 2	TOC	= 3.34
69	1/ 2	TOC	= 3.61
68	2/ 2	TOC	= 3.03

CRUISE-342 STATION- 11

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	11	68	76 12 7	1652	122 21.40	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 68 2/ 2 TOC = 1.91

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 69 1/ 2 O-G = 1.88
2 69 1/ 2 O-G = 2.83
1 68 2/ 2 O-G = 1.04
2 68 2/ 2 O-G = .88

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	12	68	76 12 7	1700	122 21.35	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	68	1/ 2	69.37	161.53	745.18	827.20	167.79	81.94	2053.00
2	68	1/ 2	53.05	166.69	255.39	240.74	76.51	45.48	837.86
1	68	2/ 2	82.26	316.15	647.43	687.76	104.14	75.33	1913.10
2	68	2/ 2	34.42	121.29	208.01	239.71	85.78	54.37	743.59

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	68	1/ 2	H2O =58.1	POROSITY =	.3432
			SOLIDS=41.9	VOID RATIO=	.5225
2	68	1/ 2	H2O =39.0	POROSITY =	.1941
			SOLIDS=61.0	VOID RATIO=	.2409
1	68	2/ 2	H2O =44.7	POROSITY =	.2339
			SOLIDS=55.3	VOID RATIO=	.3053
2	68	2/ 2	H2O =38.1	POROSITY =	.1882
			SOLIDS=61.9	VOID RATIO=	.2318

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	68	1/ 2	TOC	= 2.41
2	68	1/ 2	TOC	= 1.61
1	68	2/ 2	TOC	= 2.71

CRUISE-342 STATION- 12

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	12	68	76 12 7	1715	122 21.35	47 35.40

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 68 2/ 2 TOC = 1.91

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 68 1/ 2 O-G = 1.05
2 68 1/ 2 O-G = 1.06
1 68 2/ 2 O-G = .98
2 68 2/ 2 O-G = .98

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	13	59	76 12 7	1730	122 21.49	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	59	1/ 2	24.61	226.20	424.80	419.00	106.60	39.08	1240.00
2	59	1/ 2	.01	47.54	122.30	244.63	147.43	141.73	703.64
1	61	2/ 2	35.01	330.40	616.40	569.40	120.20	42.93	1714.00
2	61	2/ 2	39.97	181.61	301.16	278.84	77.98	39.02	918.58

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	59	1/ 2	H2O =47.8	POROSITY =	.2568
			SOLIDS=52.2	VOID RATIO=	.3456
2	59	1/ 2	H2O =29.1	POROSITY =	.1342
			SOLIDS=70.9	VOID RATIO=	.1550
1	61	2/ 2	H2O =48.5	POROSITY =	.2625
			SOLIDS=51.5	VOID RATIO=	.3559
2	61	2/ 2	H2O =41.8	POROSITY =	.2135
			SOLIDS=58.2	VOID RATIO=	.2715

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	59	1/ 2	TOC	= 2.90
2	59	1/ 2	TOC	= 1.13
1	61	2/ 2	TOC	= 3.29

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	13	61	76 12 7	1745	122 21.49	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 61 2/ 2 TOC = 2.39

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 59 1/ 2 O-G = 1.10
2 59 1/ 2 O-G = .65
1 61 2/ 2 O-G = 1.16
2 61 2/ 2 O-G = 1.32

CRUISE	STATION	WATER DEPTH	YR MCN DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	14	51	76 12 7	1755	122 21.44	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	51	1/ 2	17.54	213.13	481.14	529.93	127.16	45.96	1414.90
2	51	1/ 2	43.20	168.82	309.58	316.42	87.66	45.97	971.66
1	58	2/ 2	.02	137.17	318.09	344.16	90.72	52.04	942.19
2	58	2/ 2	.02	14.84	78.44	217.32	121.03	76.71	508.35

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	51	1/ 2	H2O =52.3	POROSITY =	.2924
			SOLIDS=47.7	VOID RATIO=	.4132
2	51	1/ 2	H2O =41.5	POROSITY =	.2115
			SOLIDS=58.5	VOID RATIO=	.2682
1	58	2/ 2	H2O =50.6	POROSITY =	.2791
			SOLIDS=49.4	VOID RATIO=	.3872
2	58	2/ 2	H2O =36.9	POROSITY =	.1806
			SOLIDS=63.1	VOID RATIO=	.2204

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	51	1/ 2	TOC	= 2.06
2	51	1/ 2	TOC	= 2.30
1	58	2/ 2	TOC	= 2.75

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	14	58	76 12 7	1816	122 21.44	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 58 2/ 2 TOC = 1.32

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 51 1/ 2 O-G = 2.18
2 51 1/ 2 O-G = .91
1 58 2/ 2 O-G = .96
2 58 2/ 2 O-G = .74

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	15	63	76 12 7	1830	122 21.40	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	63	1/ 2	57.57	332.44	545.45	396.58	86.23	39.48	1457.80
1	63	1/ 2	33.67	202.40	459.80	550.70	118.50	43.42	1409.00
2	68	2/ 2	71.38	397.01	442.97	277.45	65.94	42.00	1296.70
1	68	2/ 2	23.16	230.40	633.00	947.20	283.60	125.60	2243.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	63	1/ 2	H2O =41.9	POROSITY =	.2138
			SOLIDS=58.1	VOID RATIO=	.2720
1	63	1/ 2	H2O =46.2	POROSITY =	.2449
			SOLIDS=53.8	VOID RATIO=	.3243
2	68	2/ 2	H2O =39.1	POROSITY =	.1952
			SOLIDS=60.9	VOID RATIO=	.2426
1	68	2/ 2	H2O =46.7	POROSITY =	.2481
			SOLIDS=53.3	VOID RATIO=	.3300

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	63	1/ 2	TOC	= 3.38
1	63	1/ 2	TOC	= 2.34
2	68	2/ 2	TOC	= 3.68

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	15	68	76 12 7	1844	122 21.40	47 35.37

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 68 2/ 2 TOC = 3.24

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 63 1/ 2 O-G = 1.42
1 63 1/ 2 O-G = 1.17
2 68 2/ 2 O-G = 1.53
1 68 2/ 2 O-G = 1.38

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	16	64	76 12 7	1900	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	64	1/ 2	17.51	86.56	169.42	228.23	86.43	49.88	638.02
1	64	1/ 2	31.79	255.10	508.90	537.60	129.80	60.67	1524.00
2	66	2/ 2	13.14	75.55	142.29	184.47	82.24	68.29	565.99
1	66	2/ 2	3.02	256.70	509.10	522.50	131.10	51.77	1501.00

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	64	1/ 2	H2O =38.6	POROSITY = .1920
			SOLIDS=61.4	VOID RATIO= .2377
1	64	1/ 2	H2O =48.0	POROSITY = .2581
			SOLIDS=52.0	VOID RATIO= .3478
2	66	2/ 2	H2O =39.3	POROSITY = .1962
			SOLIDS=60.7	VOID RATIO= .2441
1	66	2/ 2	H2O =50.9	POROSITY = .2809
			SOLIDS=49.1	VOID RATIO= .3907

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	64	1/ 2	TOC = 1.87
1	64	1/ 2	TOC = 3.04
2	66	2/ 2	TOC = 1.85

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CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	16	66	76 12 7	1905	122 21.35	47 35.37

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 66 2/ 2 TOC = 2.50

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 64 1/ 2 O-G = 1.01
1 64 1/ 2 O-G = 1.48
2 66 2/ 2 O-G = .93
1 66 2/ 2 O-G = 1.42

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	17	77	76 12 7	2005	122 22.39	47 35.33

TYPE:PCB-SEDIMENT WITH UNITS:NANOGRAMS NCB PER GM DRY MASS

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
2	77	1/ 2	.01*	.01*	1.21	5.26	4.44	4.79	15.73
1	77	1/ 2	.00*	1.41	15.05	45.34	22.64	16.75	101.20
2	70	2/ 2	.01*	.01*	2.30	7.92	4.00	3.27	17.50
1	70	2/ 2	.01*	.66	12.57	49.89	38.77	34.53	136.42

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	77	1/ 2	H2O =33.4	POROSITY =	.1593
			SOLIDS=66.6	VOID RATIO=	.1894
1	77	1/ 2	H2O =37.8	POROSITY =	.1863
			SOLIDS=62.2	VOID RATIO=	.2290
2	70	2/ 2	H2O =26.2	POROSITY =	.1179
			SOLIDS=73.8	VOID RATIO=	.1337
1	70	2/ 2	H2O =33.4	POROSITY =	.1593
			SOLIDS=66.6	VOID RATIO=	.1895

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

77	1/ 2	TOC	= 1.04
77	1/ 2	TOC	= 1.48
70	2/ 2	TOC	= 1.29

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	17	70	76 12 7	2022	122 22.39	47 35.33

DC DEPTH REPL 2CB 3CB 4CB 5CB 6CB 7CB TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1 70 2/ 2 TOC = .91

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2 77 1/ 2 O-G = .03
1 77 1/ 2 O-G = .41
2 70 2/ 2 O-G = .27
1 70 2/ 2 O-G = .32

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	18	71	76 12 7	2030	122 22.34	47 35.30

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
2	71	1/ 2	.01*	.26	3.32	10.40	4.51	5.61	24.11
1	71	1/ 2	.01*	1.79	15.80	42.63	21.54	16.13	97.92
2	68	2/ 2	.00*	.00*	1.02	4.97	3.45	1.90	11.35
1	68	2/ 2	.01*	.76	12.73	38.06	17.24	11.44	80.24

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

2	71	1/ 2	H2O =28.8	POROSITY =	.1322
			SOLIDS=71.2	VOID RATIO=	.1524
1	71	1/ 2	H2O =35.3	POROSITY =	.1704
			SOLIDS=64.7	VOID RATIO=	.2055
2	68	2/ 2	H2O =27.0	POROSITY =	.1225
			SOLIDS=73.0	VOID RATIO=	.1396
1	68	2/ 2	H2O =33.1	POROSITY =	.1575
			SOLIDS=66.9	VOID RATIO=	.1869

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2	71	1/ 2	TOC	= 1.11
1	71	1/ 2	TOC	= 1.29
2	68	2/ 2	TOC	= 2.73

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	18	68	76 12 7	2038	122 22.34	47 35.30

OC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	68	2/ 2 TOC	=	.85

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

2	71	1/ 2 O-G	=	.20
1	71	1/ 2 O-G	=	.52
2	68	2/ 2 O-G	=	.24
1	68	2/ 2 O-G	=	.40

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	19	60	76 12 7	1530	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	60	2/ 2	.01	8.24	82.46	258.77	131.09	97.56	578.13
2	60	2/ 2	.54	3.67	18.47	69.91	40.46	30.39	163.44
1	54	1/ 2	.00*	4.51	46.34	180.90	106.80	76.76	415.30
2	54	1/ 2	2.20	6.77	39.97	125.86	65.85	50.70	291.35

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	60	2/ 2	H2O =56.2	POROSITY =	.3265
			SOLIDS=43.8	VOID RATIO=	.4847
2	60	2/ 2	H2O =43.8	POROSITY =	.2270
			SOLIDS=56.2	VOID RATIO=	.2937
1	54	1/ 2	H2O =58.4	POROSITY =	.3462
			SOLIDS=41.6	VOID RATIO=	.5296
2	54	1/ 2	H2O =42.0	POROSITY =	.2144
			SOLIDS=58.0	VOID RATIO=	.2730

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	60	2/ 2	TOC	= 2.38
2	60	2/ 2	TOC	= 1.42
1	54	1/ 2	TOC	= 1.81

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	19	54	76 12 7	1920	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 54 1/ 2 TOC = 1.41

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 60 2/ 2 O-G = 2.06
2 60 2/ 2 O-G = 1.89
1 54 1/ 2 O-G = 1.53
2 54 1/ 2 O-G = 2.92

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	20	66	76 12 7	1935	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE:PCB-SEDIMENT				WITH UNITS:NANOGRAMS NCB PER GM DRY MASS					
1	66	1/ 2	.01*	4.90	48.15	165.14	97.31	73.33	388.83
2	66	1/ 2	.00*	5.19	18.81	47.10	21.16	15.46	107.73
1	67	2/ 2	.00*	4.90	58.69	217.20	120.00	85.27	486.20
2	67	2/ 2	.01*	8.42	57.53	195.52	105.34	75.37	442.20

TYPE:PCT H2O,SOLIDS.... WITH UNITS:PERCENT; UNITLESS RATIO

1	66	1/ 2	H2O =53.4	POROSITY = .3017
			SOLIDS=46.6	VOID RATIO= .4321
2	66	1/ 2	H2O =37.0	POROSITY = .1815
			SOLIDS=63.0	VOID RATIO= .2217
1	67	2/ 2	H2O =64.8	POROSITY = .4101
			SOLIDS=35.2	VOID RATIO= .6951
2	67	2/ 2	H2O =38.9	POROSITY = .1940
			SOLIDS=61.1	VOID RATIO= .2406

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

1	66	1/ 2	TOC	= 2.07
2	66	1/ 2	TOC	= 1.01
1	67	2/ 2	TOC	= 2.96

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
342	20	67	76 12 7	1945	122 20.38	47 35.58

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	~~1CB~~

TYPE:TOTAL CARBON WITH UNITS:GM CARBON PER GM DRY SEDIMENT

2 67 2/ 2 TOC = 1.52

TYPE:OIL AND GREASE WITH UNITS: MG OIL-GR PER GM DRY MASS

1 66 1/ 2 O-G = 2.71
2 66 1/ 2 O-G = 2.56
1 67 2/ 2 O-G = 1.64
2 67 2/ 2 O-G = 1.98

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
343	6	61	76 12 8	905	122 21.44	47 35.43

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	61	1/ 2	.00*	.14	.36	.44	.03	.00*	.98
2	52	1/ 2	.00*	.13	.24	.24	.08	.00*	.69
1	1	1/ 2	.00*	.17	.34	.51	.01	.00*	1.02
3	61	2/ 2	.00*	.86	.45	.48	.11	.00*	1.92
2	52	2/ 2	.00*	.11	.22	.13	.05	.00*	.51
1	1	2/ 2	.00*	.24	.29	.25	.06	.00*	.83
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	61	1/ 2	.00*	.40	.35	.30	.11	.06	1.21
2	52	1/ 2	.00*	.28	.28	.29	.11	.05	1.01
1	1	1/ 2	.00*	.20	.24	.28	.11	.07	.89
3	61	2/ 2	.00*	.27	.31	.27	.10	.06	1.01
2	52	2/ 2	.00*	.30	.28	.24	.10	.05	.96
1	1	2/ 2	.00*	.12	.20	.34	.10	.05	.80

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
343	10	64	76 12 8	1056	122 21.44	47 35.40

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	64	1/ 2	.00*	.15	.33	.24	.07	.00*	.80
2	55	1/ 2	.00*	.21	.31	.36	.04	.00*	.92
1	1	1/ 2	.00*	.11	.44	.54	.09	.00*	1.18
3	64	2/ 2	.00*	.23	.41	.49	.13	.00*	1.26
1	1	2/ 2	.00*	.16	.37	.40	.10	.00*	1.03
2	55	2/ 2	.00*	.23	.36	.37	.06	.01	1.03
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	64	1/ 2	.00*	.71	.60	.53	.16	.12	2.12
2	55	1/ 2	.00*	.48	.50	.39	.14	.11	1.63
1	1	1/ 2	.00*	.32	.31	.33	.13	.08	1.18
3	64	2/ 2	.00*	.15	.22	.24	.09	.08	.77
1	1	2/ 2	.00*	.09	.19	.27	.09	.04	.07
2	55	2/ 2	.00*	.15	.28	.34	.13	.07	.97

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
343	17	80	76 12 8	1239	122 22.39	47 35.33

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	80	1/ 2	.00*	.54	.70	.33	.00*	.00*	1.57
2	71	1/ 2	.00*	.14	.64	.63	.09	.07	1.57
1	1	1/ 2	.00*	.25	.21	.30	.03	.00*	.79
3	80	2/ 2	.00*	.26	.18	.26	.05	.02	.77
2	71	2/ 2	.00*	.16	.20	.23	.07	.00*	.66
1	1	2/ 2	.00*	.26	.35	.40	.00*	.01*	1.02
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	80	1/ 2	.00*	.32	.18	.19	.08	.09	.86
2	71	1/ 2	.00*	.34	.25	.39	.17	.11	1.25
1	1	1/ 2	.00*	.35	.21	.24	.12	.08	.99
3	80	2/ 2	.00*	.28	.36	.43	.14	.08	1.30
2	71	2/ 2	.00*	.21	.25	.25	.10	.05	.87
1	1	2/ 2	.00*	.37	.25	.25	.12	.12	1.11

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
343	19	50	76 12 8	1554	122 20.38	47 36.00

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	50	1/ 2	.00*	.33	.68	.43	.10	.00*	1.55
2	41	1/ 2	.00*	.11	.33	.17	.02	.00*	.63
1	1	1/ 2	.00*	.27	.28	.43	.12	.02	1.11
2	41	2/ 2	.00*	.18	.14	.21	.05	.00*	.58
3	55	2/ 2	.00*	.25	.78	.78	.12	.00*	1.92
1	1	2/ 2	.00*	.26	.69	1.12	.65	.44	3.16
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	50	1/ 2	.00*	.59	.89	1.06	.25	.12	2.91
2	41	1/ 2	.00*	.79	1.06	1.13	.24	.12	3.33
1	1	1/ 2	.00*	.70	1.50	1.59	.41	.16	4.36
2	41	2/ 2	.00*	.45	.79	.92	.26	.19	2.60
3	50	2/ 2	.00*	.63	1.06	1.31	.31	.12	3.43
1	1	2/ 2	.00*	.33	.58	.73	.22	.14	2.00

CRUISE	STATION	WATER DEPTH	YR MON DAY	LOCAL TIME	LONGITUDE-W	LATITUDE-N
343	44	25	76 12 8	1443	122 21.34	47 35.24

DC	DEPTH	REPL	2CB	3CB	4CB	5CB	6CB	7CB	TCB
TYPE: WATER				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	25	1/ 2	.00*	.44	.27	.25	.03	.00*	.99
1	1	1/ 2	.00*	.18	.44	.44	.04	.02	1.11
1	1	2/ 2	.00*	.48	.48	.52	.05	.04	1.56
3	25	2/ 2	.00*	.84	3.34	14.04	1.09	.26	19.57
2	16	2/ 2	.00*	.14	2.19	6.80	.78	.25	10.15
TYPE: SPM				WITH UNITS:PICOGRAMS NCB PER GM ML WATER					
3	25	1/ 2	.00*	.97	1.16	1.19	.25	.13	3.70
2	16	1/ 2	.00*	.64	.86	.98	.24	.18	2.90
1	1	1/ 2	.00*	.84	1.17	1.44	.39	.13	3.97
1	1	2/ 2	.00*	.47	.90	.99	.25	.21	2.83
3	25	2/ 2	.00*	.19	.29	.39	.15	.10	1.11
2	16	2/ 2	.00*	.88	1.23	1.25	.31	.19	3.87

CRUISE-343 STATION- 44

APPENDIX B': DESCRIPTION OF THE LARGE VOLUME FILTER

1. A large volume filter system (LVF) was designed to collect relatively large quantitites of suspended particulate matter with minimum contamination from the system that could interfere with the analyses. The pumping characteristics of the LVF system are variable, depending mainly on the suspended particulate concentrations. However, in most areas sampled, filtering rates in excess of 200 ℓ per hour could be attained. The original system, as described by Pavlou et al.,[20*] has been modified to correct operational deficiencies as follows.

2. A schematic diagram of the entire LVF system is shown in Figure B-1. The intake line consists of sections of one half inch seamless aluminum tubing connected with teflon-lined neoprene tubing. The desired sampling depth is obtained by joining the aluminum sections with Swagelok[R] unions. Larger organisms are excluded by a 40 mesh screen suction strainer at the end of the intake line. The sample can be connected directly to the discharge port of the beer-keg sampler[10]. This mode of operation is advantageous in allowing discrete sampling, more depth flexibility, and the ability to directly measure additional parameters from the same water parcel.

3. Seawater is drawn through the filter by vacuum maintained in the ballast tank which has been evacuated with a rotary vane vacuum pump. The suction is adjusted to compensate for lifting the water to the LVF and to produce less than 0.5 atmosphere pressure drop across the filter. Water collected in the ballast tank is periodically discharged via a positive displacement water pump. Backflushing of the filter in the event of a power loss is prevented by a check valve mounted just behind the filter holder. A totalizing water meter measures the volume sampled. Initial evacuation of the filter holder and final vacuum release are accomplished with the meter bypass-air vent line. All flow lines, valves, and connections between the filter holder and the water meter, including the air vent line, are stainless steel or brass. The ballast discharge, scavenge

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* See References at the end of the main text

and priming lines consist of one half inch PVC tubing. A diagram of the filter holder is shown in Figure B-2. The chamber provides an all stainless steel environment for the filter paper, as well as facilitating changing of the filter. In operation, the bottom plate is fixed to the sampler body through the stainless flow lines. The filter support section and the top plate are sealed to the base by four bolts and are removable as a closed unit. The intake line and air vent connections are both equipped with stainless Swagelok[R] quick disconnects to facilitate separation of the top plate and the support unit when transporting to a clean, protected area to change the filter. The filter is supported by an 8" by 10" piece of stainless steel laminated screen and is held in place by the removable retaining ring. The sections are sealed by silicone rubber gaskets which are separated from the chamber interior by the centering flanges.

4. The filters commonly used are 8" by 10" Reeve Angel 934 AH. These are the same grade filters used for other marine particulate studies, e.g., particulate carbon and nitrogen measurements. They contain no organic binders and have defined retention characteristics with a median retention of about 0.5 μ[22]. They were precleaned by combusting at 500°C for at least 24 hours just prior to each cruise. One filter was randomly chosen from each combusted lot, extracted, and analyzed. At no time was there any evidence of residual contamination. After sampling the filters were folded and placed in solvent-rinsed glass jars with aluminum foil cap liners and stored frozen until analysis.

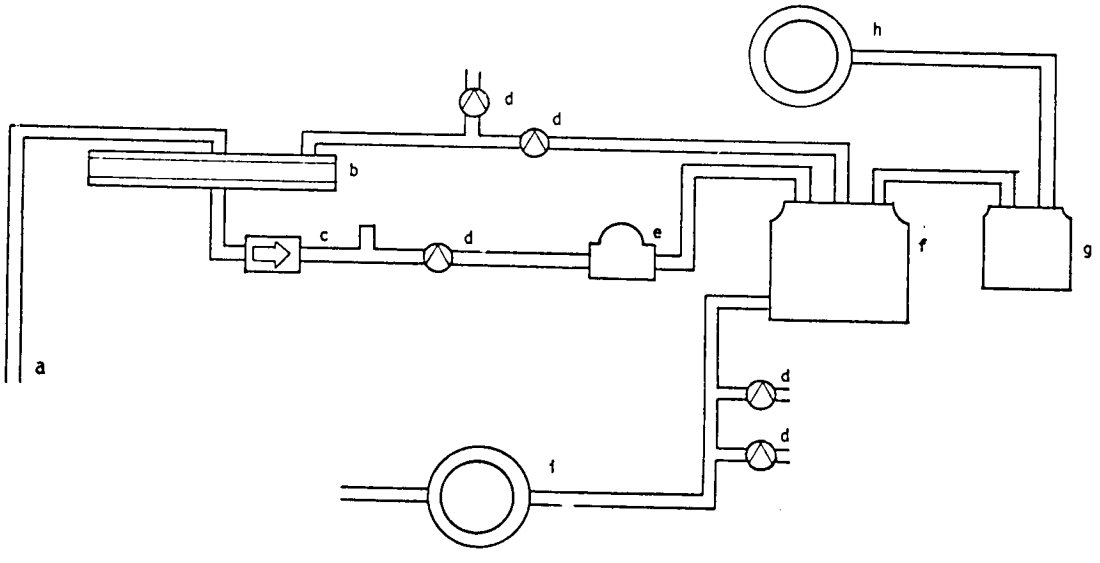

Figure B-1. Schematic Diagram of the Large Volume Filter System: a, intake line; b, filter chamber; c, check valve; d, shut-off valve; e, totalizing water meter; f, main ballast tank; g, water trap; h, vacuum pump; i, water pump.

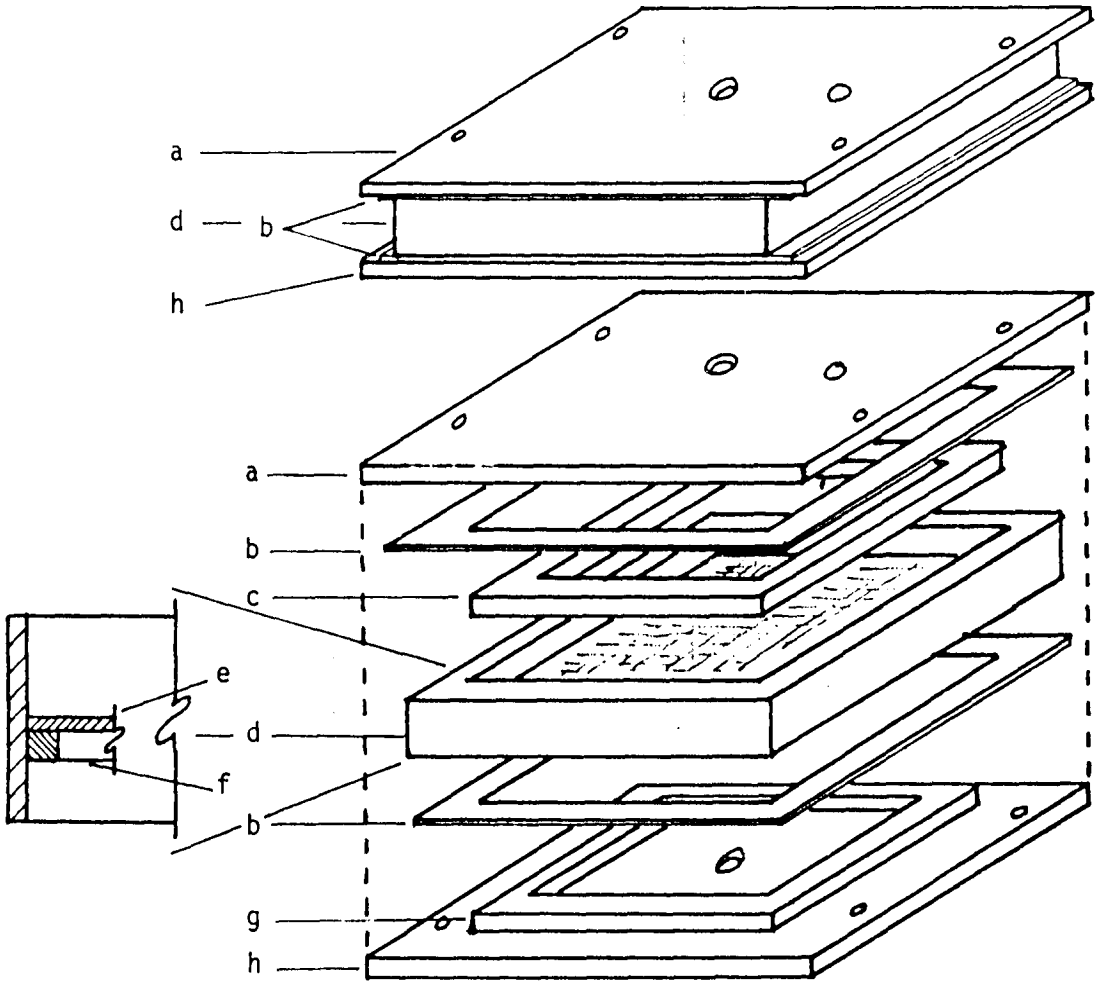

Figure B-2. A Diagram of the Large Volume Filter Chamber: a, top plate; b, silicone rubber gaskets; c, filter retaining ring; d, filter support section; e, screen; f, screen support flange; g, bottom plate covering flange; h, bottom plate.

APPENDIX C': SPECTRAL ANALYSIS TECHNIQUE

Computational Framework

1. Since all chlorobiphenyls show nearly the same molar response on a flame ionization detector (FID),[23, 24*] the relative peak area of a given spectral component to the total area of the mixture is equal to its mole fraction:

$$X_i = \frac{A_i}{\sum_i A_i} \qquad (1)$$

Since

$$X_i = \frac{n_i}{n_t} \approx \frac{C_i}{C_t}$$

and

$$C_t \approx \frac{\rho_{PCB} \times 10^3}{M^*_{PCB}}$$

then

$$C_i \approx \frac{X_i \rho_{PCB} \times 10^3}{M^*_{PCB}} \qquad (2)$$

2. If the degree of chlorination of the component is known, a mass corrected response can be obtained. The mass fraction of each component, F_i, is then expressed as

$$F_i = \frac{A_i M_i}{\sum_i (A_i M_i)} \qquad (3)$$

where A_i is the peak area is the molecular weight in grams mole^{-1} of the *ith* component.

3. Applying this analysis to a standard chlorobiphenyl mixture, one can generate a series of F_i values corresponding to the individual analytical components of that standard. Thus, for any known mass of

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* See References at the end of the main text

standard m_t, and the appropriate F_i, the specific mass of component i can be determined from

$$m_i = m_t F_i \tag{4}$$

If the same standard is chromatographed under identical conditions, but with EC detection, similar component separation will be obtained but with different response characteristics.

4. The corresponding EC response factor, R_i, is then simply expressed as

$$R_i = \frac{A_i'}{m_i} = \frac{A_i'}{m_t F_i} \tag{5}$$

where A_i' refers to the area in the EC trace. Once an R_i value has been determined from the analyses of the standard, its corresponding m_i in an unknown sample can be easily obtained from relation (5).

5. Although F_i is only internally consistent and independent of the absolute FID response, R_i is governed by the operational parameters which effect A_i'. Therefore, the calibration utility of R_i is limited since simultaneous injections of standards would be required with each unknown. This shortcoming can be overcome by calculating the response of each component relative to an operationally convenient external standard. This relative response is defined as the sensitivity ratio

$$S_i = \frac{R_i}{R_{st}} \tag{6}$$

where R_{st} refers to the EC response of the external standard.

6. Combining relations (5) and (6), the injected mass of each component in a sample extract, u, can be determined as follows.

$$m_{i(u)} = \frac{A_{i(u)}'}{S_i R_{st}} \tag{7}$$

$A'_{i(u)}$ is now the EC peak area of the *ith* component in the sample and R_{st} is the response for the sequentially injected external standard. The corresponding concentration in the sample can be easily computed as

$$[i\text{-}CB]_u^x = \frac{m_{i(u)}}{LU_x} \qquad (8)$$

where L is the volume fraction of the sample extract injected in the chromotograph and U_x is the quantity of sample extracted.

7. Since the isomeric identities of each of the PCB components are largely unknown and difficult to determine, final data reduction is presently most reasonable in terms of the concentrations of CB of the same degree of chlorination, [N-CB]. This is obtained simply as the sum of [i-CB] for all i of the same N.

8. For comparison of the CB content between samples, the mass fraction, F_n, of the different N-CB can be calculated as

$$F_n = \frac{[N\text{-}CB]}{[t\text{-}CB]}$$

where [TCB] is the sum of the concentrations of all CB residues.

9. It can be seen from the above considerations that from measured areas and the appropriate sensitivity ratios, one can determine directly that N-CB abundance in any environmental sample and plots of F_n versus N can be constructed to provide a direct representation of the corresponding intrasample CB distribution.

Experimental Procedures

10. All analyses were performed on a Tracor MT-220 gas chromatograph equipped with both flame ionization and ^{63}Ni-electron capture detectors. A 2 m by 2mm ID pyrex column was packed with 1.5% SP-2250/1.95% SP-2401 on 100/120 Supelcon AW DMCS and operated isothermally at 160°C. The carrier gasses were N_2 and a 5% methane/95% argon mixture for the FI and EC analyses, respectively. Peak areas were recorded on a Westronics

MT-22 strip chart recorder and were measured by planimetry. In cases of insufficient resolution or small peak areas, adjacent peaks were combined and treated as one.

11. The chlorine content, N, per component was determined by combined gas chromatography-mass spectrometry using a Finnigan Model 1015 GCMS at the U.S. EPA Region X Laboratories in Seattle, Washington.

12. F_i and S_i determinations were made with standard resolutions of Aroclors 1242, 1254, and 1260, together with p,p'-DDE as an external standard. Quantitation accuracy was tested using Aroclors of 1242, 1248, 1245 and 1260 and mixtures of these standards.

Results

13. Table C-1 shows the mole fractions, X_i, the molar concentrations, C_i, the mass fractions, F_i, and the degree of chlorination, N, for the components of Aroclors 1242, 1254, and 1260, respectively.

14. From F_i, M_i, and N, the %N-CB composition, the average molecular weights and the chlorine mass percent of each standard were calculated and compared with the manufacturers' specifications and literature values in Table C-2. The good agreement indicates that the F_i values and component N designations are accurate.

15. Comparisons of the mass percent of each N-CB determined from these studies with values from the literature fail to show complete agreement. However, this is probably indicative of variations in the CB content of commercial PCB mixtures. Therefore, F_i values are only directly applicable to the particular standard analyzed.

16. It should be noted that individual GC peaks, while relatively invariant in retention time, represent CB of different N value in different standards. Since the degree of chlorination for each component cannot always be determined in environmental samples, S_i's are useful only if a single value can be assigned to each spectral component.

17. Figure C-1 shows a plot of S_i as a function of relative retention time, $t_{r(i)}$; both quantities are normalized to p,p'-DDE. S_i initially increases rapidly with increasing $t_{r(i)}$ and approaches a maximum at longer retention times. It was encouraging to note that components of the same

Table C-1. Summary of Quantitation Variables for Chlorobiphenyl Standards

		X_i			C_i			F_i			F_n		
i	N	1242	1254	1260	1242	1254	1260	1242	1254	1260	1242	1254	1260
1	0	0.001			0.0053			0.0004			0.0004		
2	1	0.009			0.0476			0.0068					
3	1	0.004			0.0212			0.0026			0.0095		
4	2	0.044			0.2329			0.0378					
5	2	0.011			0.0582			0.0093					
6	2	0.110	0.005		0.5822	0.0232		0.0937	0.0034		0.1408	0.0034	
7	3	0.008			0.0423			0.0079					
8-9	3	0.158	0.005		0.8363	0.0232		0.1552	0.0039				
10	3	0.061			0.3229			0.0607					
11-12	3	0.168	0.004		0.8892	0.0186		0.1652	0.0033				
13-14	3	0.098	0.002		0.5186	0.0093		0.0965	0.0017		0.4855	0.0089	
15-16	4	0.097	0.086	0.003	0.5134	0.3995	0.0128	0.1077	0.0828	0.0024			
17-18	4	0.104	0.035	0.001	0.5505	0.1591	0.0043	0.1159	0.0344	0.0061			
19-20	4	0.023	0.059		0.1217	0.2741		0.0259	0.0560				
21	4	0.071	0.084+	0.036+	0.3758	0.3902+	0.1538+	0.0786	0.0802+	0.0320+			
22-24	4	0.033	0.170+	0.050+	0.1747	0.7897+	0.2136+	0.0365	0.1622+	0.0442+	0.3642	0.1732	0.0031
25-27	5		0.086	0.007*		0.3995	0.0299*		0.0814	0.0063*			
28	5		0.098	0.039*		0.4553	0.1666*		0.0935	0.0376*			
29-31	5		0.141	0.163*		0.6550	0.6963*		0.1342	0.1595*		0.6190	0.0762
32-33	6		0.053	0.122		0.2462	0.5212		0.0620	0.1188			
34	5		0.063	0.082*		0.2927	0.3503*		0.0675	0.0797*			
35	6		0.077	0.120		0.3577	0.5126		0.0911	0.1170		0.1531	0.5126
36	7		0.013	0.082		0.0604	0.3503		0.0173	0.0877			
37-40	7		0.019	0.112		0.0872	0.4784		0.0249	0.1198			
41-42	7			0.102			0.4357			0.1087			
43-44	7			0.080			0.3417			0.0856		0.0422	0.4018

+ These components are pentachlorobiphenyls (N=5)

* These components are hexachlorobiphenyls (N=6)

Table C-2. Comparison of Mass Percent Composition for Aroclor Standards Among Various Investigat

	This Study			Ugawa et al., 1973[24]			Webb and McCall, 1973[25]			Thurston, 1971[26]			Monsanto, 1972[27]		
N-CB	1242	1254	1260	1242	1254	1260	1242	1254	1260	1242	1254	1260	1242	1254	1260
1	0.95						1.1			3			1	0.1	
2	14.08	0.34		7.79[+]	0.35[++]	0.12[+++]	16.95			13			16	0.5	
3	48.55	0.89		59.66	2.76	1.52	39.19			28			49	1.	
4	36.42	17.32	0.31	28.11	8.93	1.63	31.83	13.8		30	11		26	21	
5	0.1	61.90	7.62	1.42	60.28	5.38	8.71	61.9	11.53	22	49	12	8	48	
6		15.31	51.26		22.07	35.69		23.3	46.14	4	34	38	1	23	
7		4.22	40.18		5.62	44.70		1.0	34.84		6	41		6	
8			0.1			10.14			6.10			8	100		
9						0.83									
t-CB	100.05	99.98	100.00	96.98	100.00	100.00	97.78	100.00	98.61	100.0	100.0	100	100.0	99.5	
% Cl	42.1	54.97	59.76	42.9	54.60	60.70	43.4	54.7	60.11	46.1	55.7	60.1	43.1	54.1	60
$\bar{M}$	263.0	325.17	366.6	256.1	330.09	376.3	260.6	327.9	365.1	278.8	336	374.5	264.8	326.0	

[+] Kenechlor 300 (Kanegafuchi Chemical Industrial Co. Ltd., Japan)

[++] Kenechlor 500

[+++] Kenechlor 600

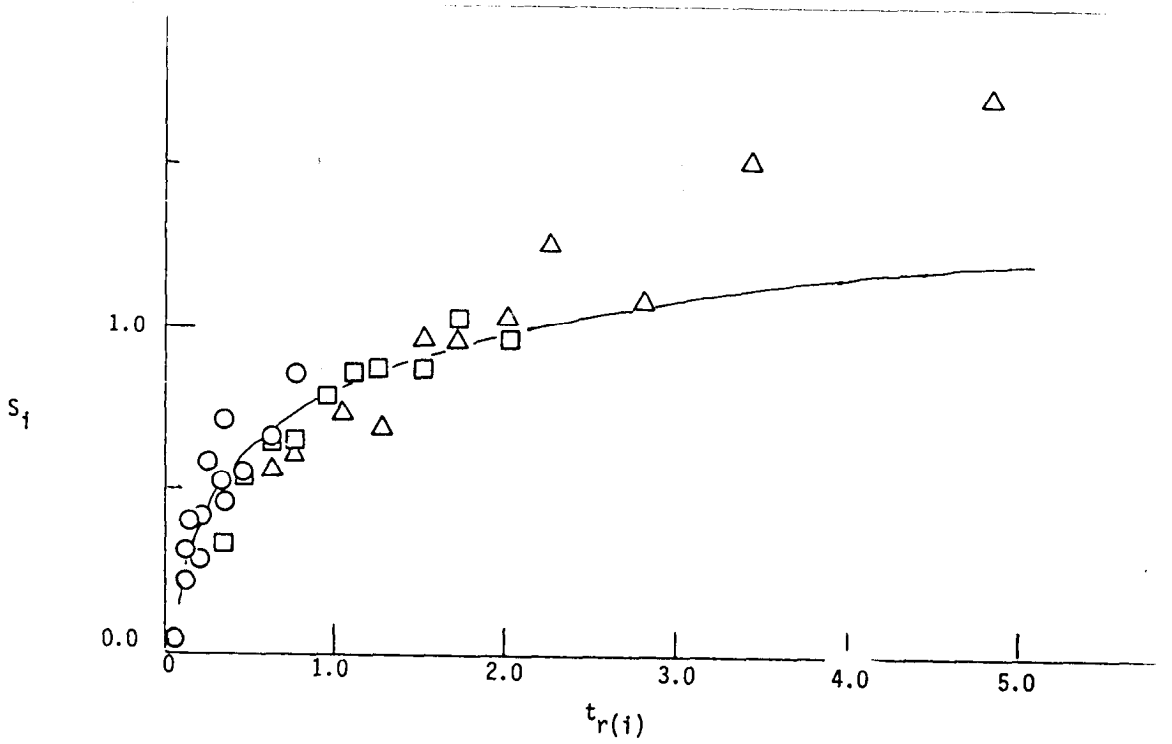

Figure C-1. Plot of the Sensitivity Ratio, S_i, Versus the Relative Retention Times, $t_{r(i)}$, of the Components of Aroclors 1242, 1254, 1260. Both S_i and $t_{r(i)}$ were Normalized to p,p'-DDE.

retention time, even though of different N value, gave similar S_i values. S_i values were therefore averaged for those components which appeared in more than one standard. In order to facilitate computation of S_i in terms of $t_{r(i)}$ an empirical equation

$$S_i = 0.614 \log t_{r(i)} + 0.783$$

was generated by regression analysis. The correlation coefficient was 0.927. Since the scatter in the data was mainly due to the difficulty in accurately measuring components of small peak area, it was felt that the S_i values calculated from the equation could give better results.

18. From the quantitation of known standard injections via S_i analysis, it became apparent that much of the variation in S_i for components of both low and high N values was real. Use of a combination of the averaged values at the spectral extremes and the S_i values calculated from the empirical equation for the intermediate points gave the best agreement between the known and S_i-calculated [t-CB] and [N-CB] values for a series of injected standards. The values of S_i thus obtained are compiled in Table C-3.

19. From these S_i values, a series of single and mixed Aroclor standards were injected and quantitated. The results are shown in Table C-4. Since the instrument precision, determined from peak height comparisons of repeated injections of a single standard, is approximately ± 2%, the quantitation by the S_i technique is quite accurate. The net analytical precision for the GC analysis, including instrument response fluctuations, precision in the reading of the volume injected, and planimetry errors, was approximately ± 5%.

Table C-3. Values of the Relative Retention Time, $t_{r(i)}$, and Sensitivity Ratio, S_i, for Aroclor Standard Components

i	$t_{r(i)}$	S_i
1	0.003	0.000
2	0.005	0.000
3	0.074	0.000
4-6	0.115	0.170
7-9	0.199	0.300
10-14	0.299	0.506
15-16	0.397	0.537
17-18	0.498	0.597
19-21	0.636	0.662
22-24	0.794	0.722
25-27	0.970	0.775
28-30	1.114	0.812
31	1.291	0.851
32-33	1.508	0.893
34	1.729	0.929
35	2.013	0.970
36	2.297	1.263
37-40	2.824	1.094
41-42	3.471	1.504
43-44	4.833	1.708

Table C-4. Results of the Quantitation of CB Residues by EC-GC Using S_i Technique

Standard	$m_{t(inj)} \times 10^{-10}$ g	$\Sigma m_i \times 10^{-10}$ g	% Δ
1242	2.061	2.058	- 0.15
1254	2.674	2.713	1.46
1260	2.279	2.221	- 2.54
1242 + 1254	3.254	3.389	4.15
1242 + 1260	3.170	3.255	2.68
1254 + 1260	2.891	2.943	1.80
1242 + 1248 + 1260	4.986	4.910	= 1.52

APPENDIX D': DATA REDUCTION

1. The following computer program was written to facilitate the reduction of the voluminous raw analytical data acquired during this project and is based on the computation scheme described in Appendix C'. Figure D-1 shows an overall flow diagram for the whole program. Figures D-2 through D-7 are detailed flow schemes of the component routines. A listing of the program together with a sample input and output is included.

2. The program was written for intended use on a time sharing computer system. It was developed on the CDC 6400 computer available at the Academic Computer Center at the University of Washington. The program is written in FORTRAN IV and requires the availability of a free format input subroutine. In this program, the local routine KNVRT, Reference Document No. W00022 available at the computer center, was implemented.

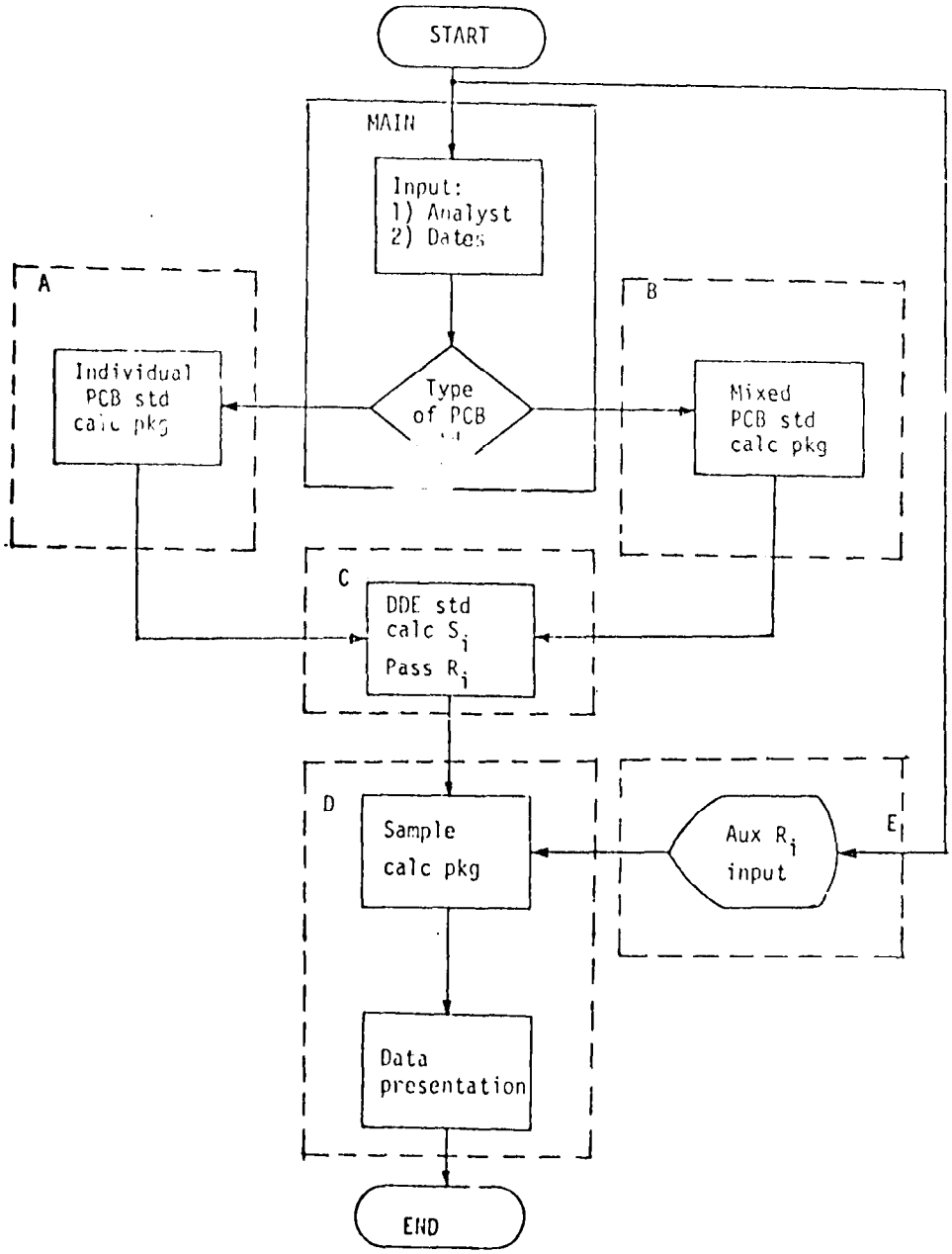

Figure D-1. Overall Flow Scheme for Data Reduction. Detailed Flow Diagrams for Components A, B, C, D, E and Main are Presented in Figures D-2 through D-7.

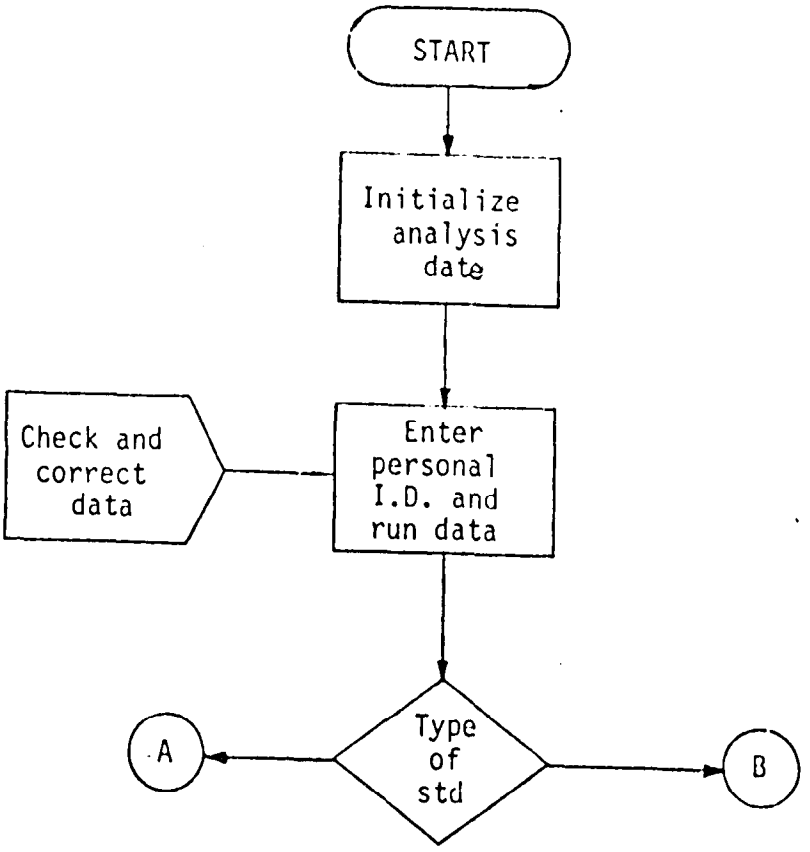

Figure D-2. Detailed Flow Diagram of the Main Section.

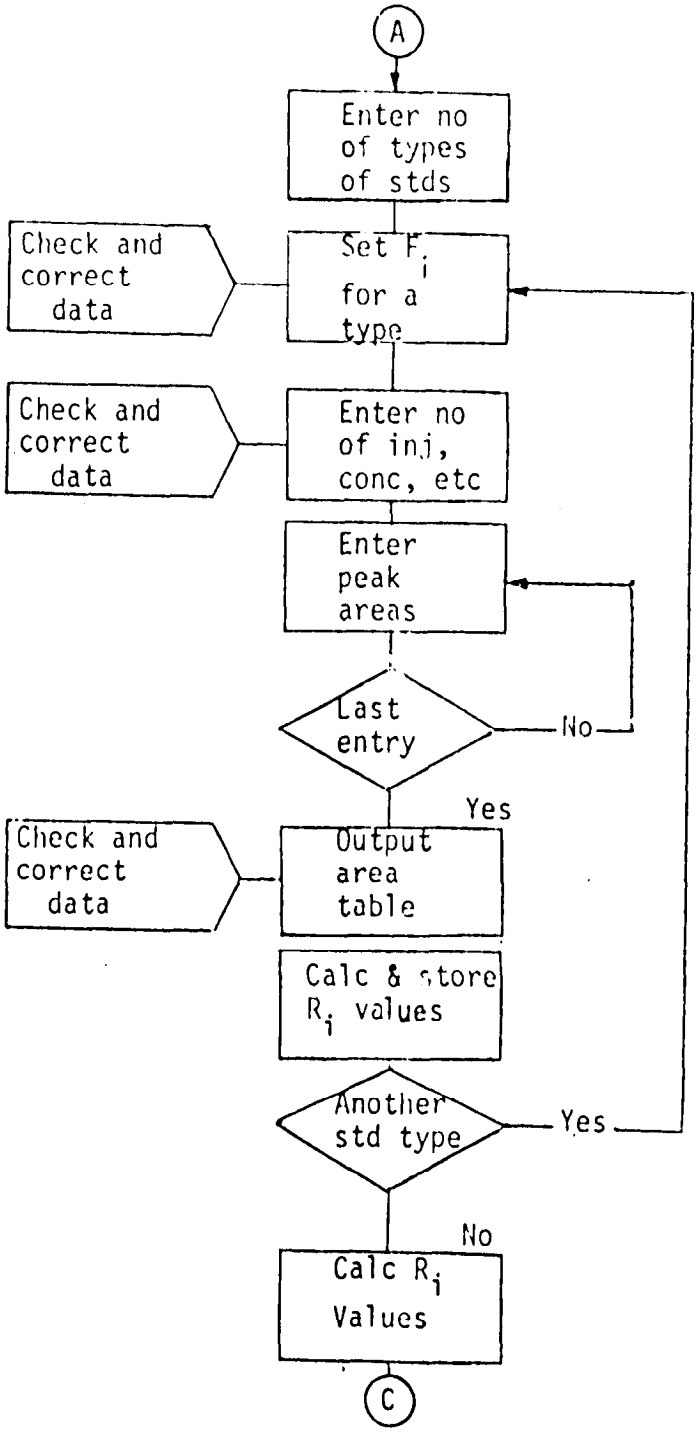

Figure D-3. Detailed Flow Diagram of Section A, Individual PCB Standard and Calculation Package

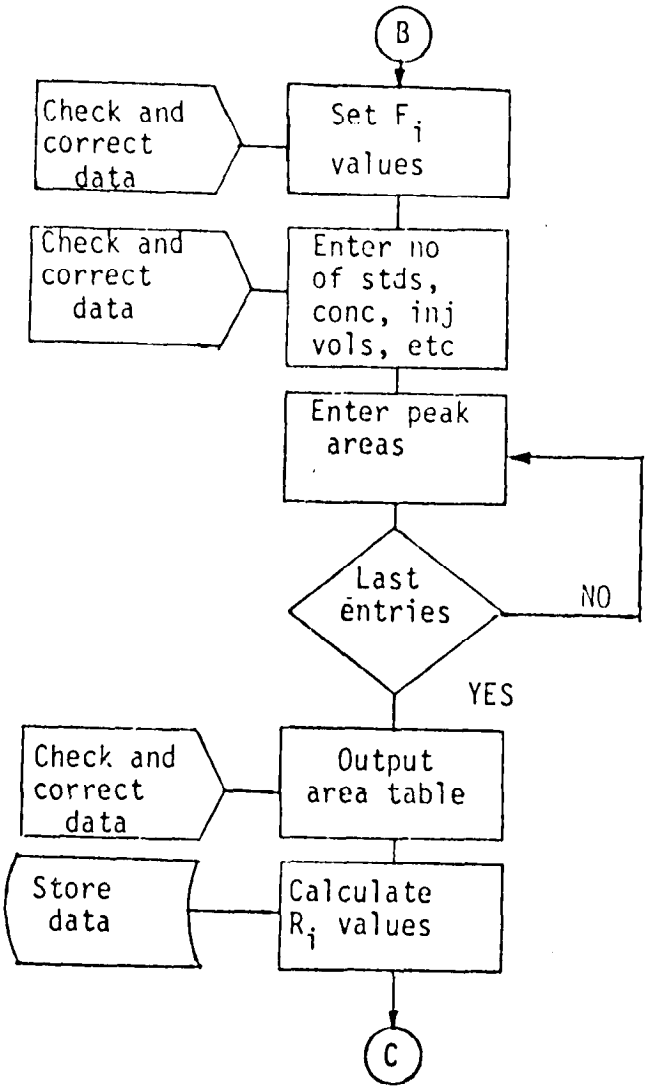

Figure D-4. Detailed Flow Diagram of Section B, Mixed PCB Standard Calculation Package.

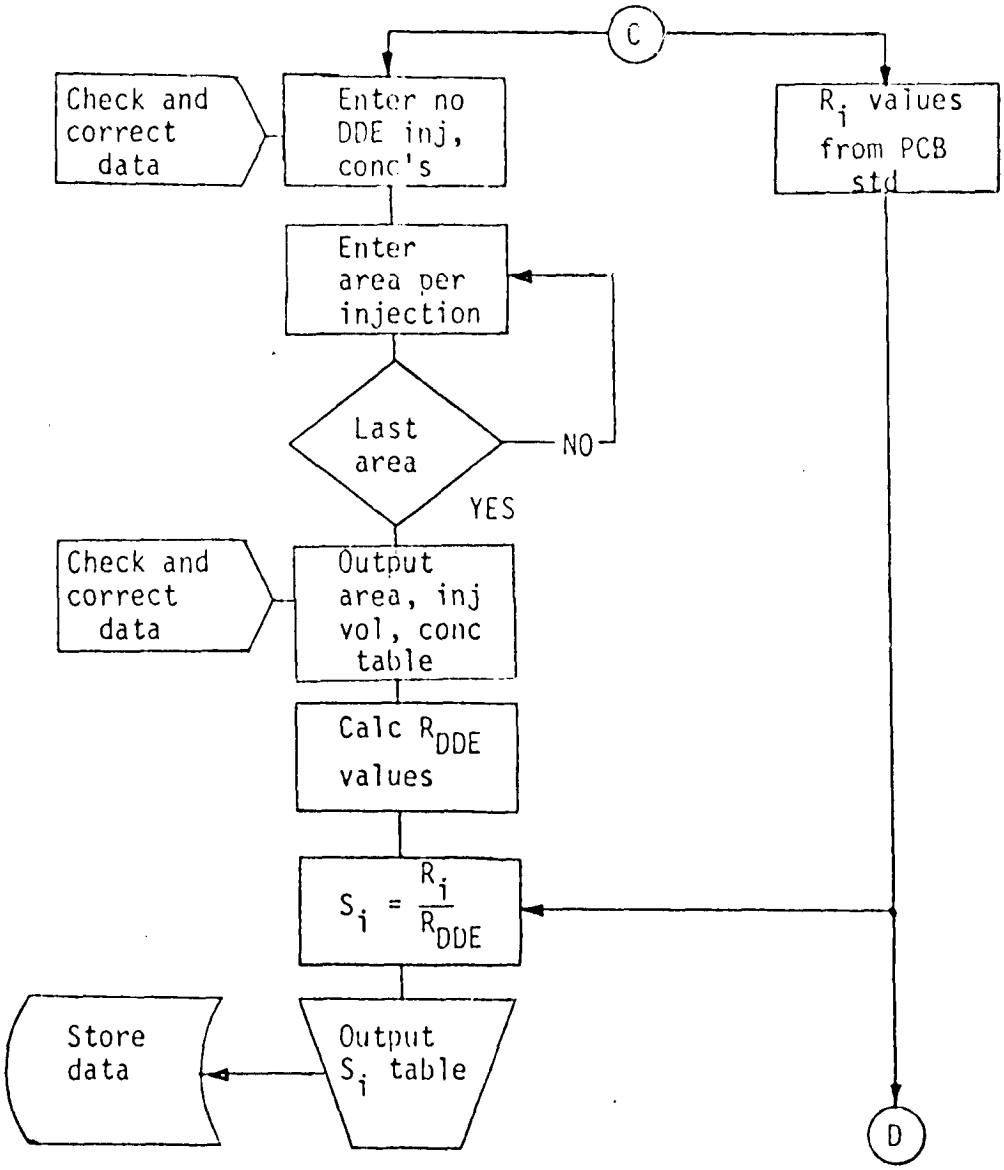

Figure D-5. Detailed Flow Diagram of Section C, DDE Standard and Calculation of S_i

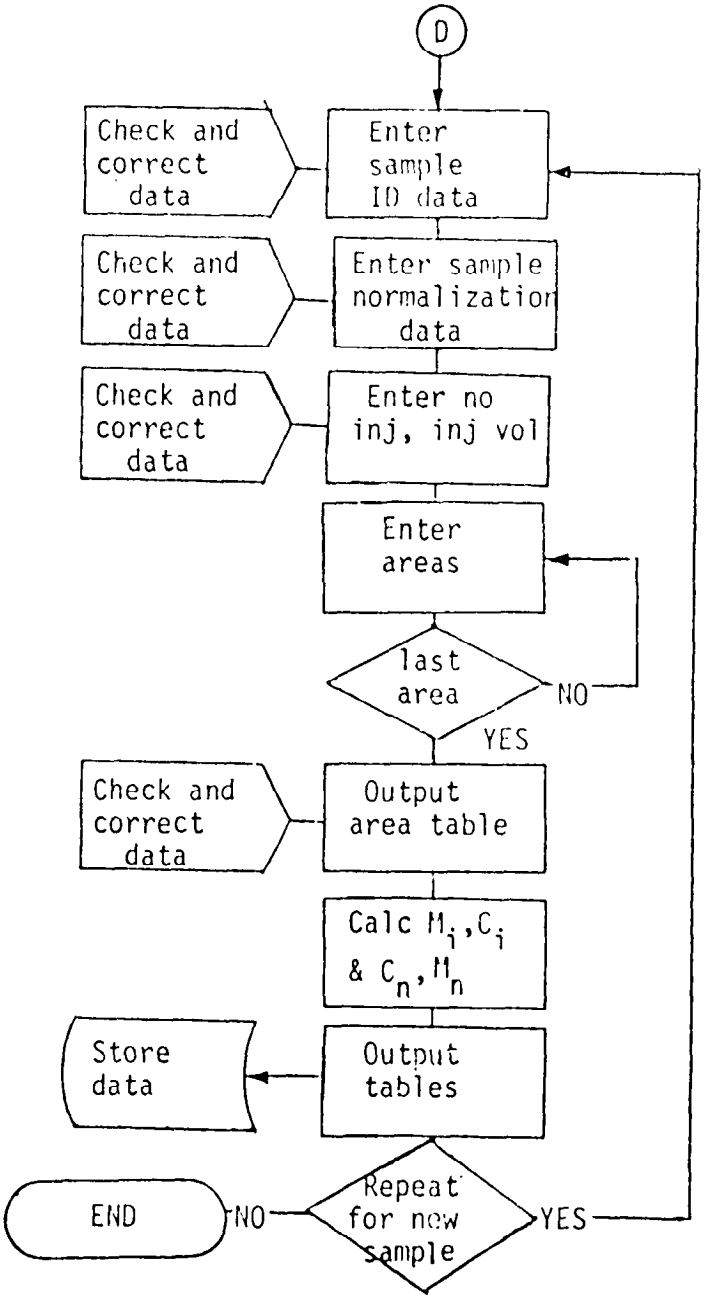

Figure D-6. Detailed Flow Diagram of Section D, Sample Calculation Package

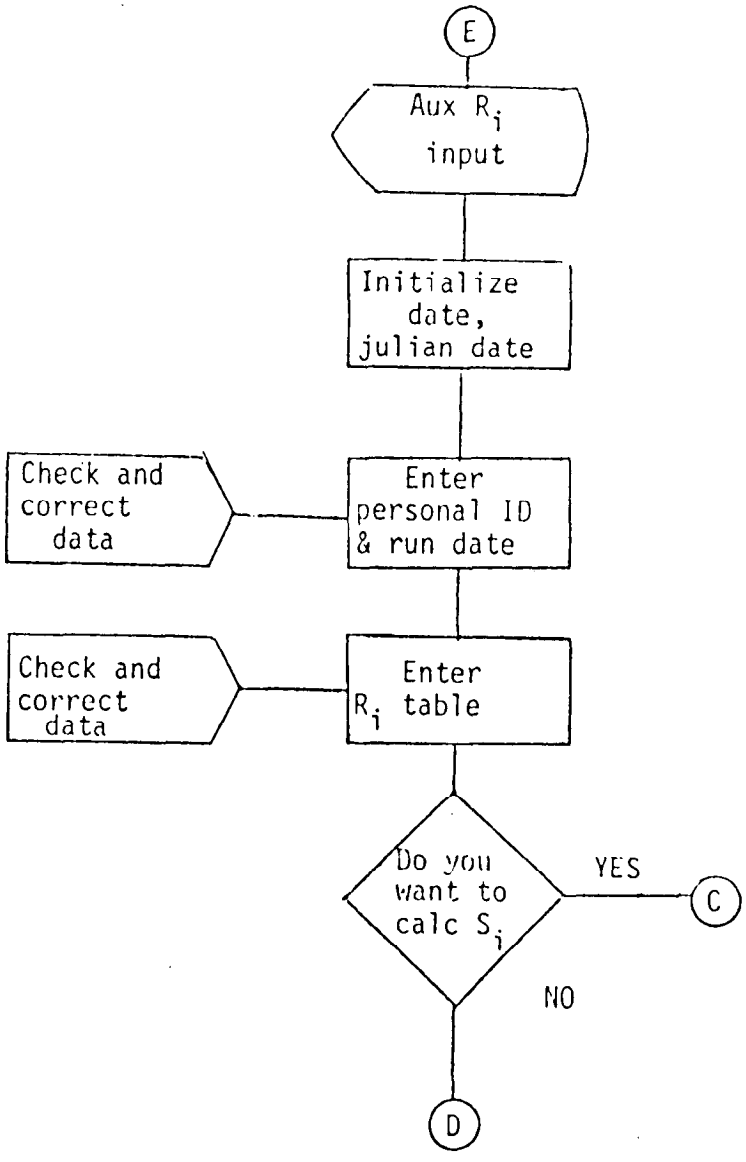

Figure D-7. Detailed Flow Diagram of Section E, Auxiliary R_i Input.

Program Listing

```
 OVERLAY(SHRT,0,0)                                                      A  10
 PROGRAM SHRTCAL (TERIN,TEROUT,SPAREA,SPAREB,INPUT,OUTPUT,TAPE15=       A  15
$TERIN,TAPE16=TEROUT,TAPE17=SPAREA,TAPE10=SPAREB,TAPE5=INPUT,TAPE6=     A  20
$OUTPUT,SPAREC,SPARED,TAPE20=SPARED,TAPE19=SPAREC)                      A  25
 DIMENSION IROUT(10)                                                    A  30
 COMMON /SET1/ RIN(8),ROUT(10)                                          A  35
 EQUIVALENCE (IROUT,ROUT)                                               A  40
 COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                        A  45
 INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                                A  50
 COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                                   A  55
 COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                       A  60
 COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)              A  65
 COMMON /SET5/ DDECON(50),RDDE(50)                                      A  70
 COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)          A  75
 COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                      A  80
 COMMON /SET8/ FRACC(20),FRACM(20)                                      A  85
 COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)                  A  90
 COMMON /SET10/ CMI(8,5),CSCON(8,5)                                     A  95
 COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL       A 100
 COMMON /SET12/ ANORM,SAMUNIT                                           A 105
 COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                            A 110
 COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM            A 115
 COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                           A 120
 DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/             A 125
 DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/     A 130
 DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/             A 135
 DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                     A 140
 DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/                   A 145
 INTEGER CHL(20)                                                        A 150
 DATA CHL/20*9/                                                         A 155
 DATA SRM/20*1.E-99/,SRRM/20*1.E-99/,SRMPT/20*1.E-99/                   A 160
 DATA SR/20*1.E-99/,SRR/20*1.E-99/,SRPT/20*1.E-99/                      A 165
 DATA RSD/20*1.E-99/,RAVG/20*1.E-99/,SI/20*1.E-99/                      A 170
 DATA TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT/15,16,17,18,19,20,5,6/            A 175
 DATA JANS,JMPP,IEND/0,0,21/                                            A 180
 EXTERNAL SVFILE,CHKSUM                                                 A 185
 CALL RECOVR (SVFILE,177B,0)                                            A 190
 CALL CONNEC (15)                                                       A 195
```

```
      CALL CONNEC (16)                                                  A 200
      CALL DATEB (LDATE)                                                A 205
      DECODE (6,70,LDATE) MON,IDA,IYR                                   A 210
      CALL JULDATE (IDA,MON,IYR,JDATE)                                  A 215
C     ENTER IDENTITY AND DATE                                           A 220
 5    CONTINUE                                                          A 225
      WRITE (TOUT,75)                                                   A 230
      READ (TIN,55) IDATE                                               A 235
      WRITE (TOUT,80) IDATE                                             A 240
      CALL CKCORRT (LBL3,JANS)                                          A 245
      IF (JANS) 10,50,5                                                 A 250
 10   CONTINUE                                                          A 255
      WRITE (TOUT,90)                                                   A 260
      READ (TIN,65) IDPER                                               A 265
      WRITE (TOUT,80) IDPER                                             A 270
      CALL CKCORRT (LBL3,JANS)                                          A 275
      IF (JANS) 15,50,10                                                A 280
 15   CONTINUE                                                          A 285
      SHIFT = 0.0                                                       A 290
      EPCB = 0.0                                                        A 295
      CALL FORMIN                                                       A 300
 20   CONTINUE                                                          A 305
      J = 1                                                             A 310
      WRITE (TOUT,105)                                                  A 315
      READ (TIN,60) IANS                                                A 320
      WRITE (TOUT,85) IANS                                              A 325
      CALL CKCORRT (LBL3,JANS)                                          A 330
      IF (JANS) 25,20,20                                                A 335
 25   CONTINUE                                                          A 340
      IF (IANS.EQ.1H1) J = -1                                           A 345
      IF (IANS.EQ.1H1) CALL OVERLAY (4HSHRT,1,0)                        A 350
      IF (J) 45,30,30                                                   A 355
 30   CONTINUE                                                          A 360
      IF (IANS.EQ.1H2) J = -1                                           A 365
      IF (IANS.EQ.1H2) CALL OVERLAY (4HSHRT,2,0)                        A 370
      IF (J) 40,35,35                                                   A 375
 35   CONTINUE                                                          A 380
      IF (IANS.EQ.1H3) J = -1                                           A 385
```

```
      IF (IANS.EQ.1H3) EPCB = 2.0                                       A 390
      IF (IANS.EQ.1H3) CALL OVERLAY (4HSHRT,3,0)                        A 395
      IF (J) 40,20,20                                                   A 400
 40   CONTINUE                                                          A 405
      CALL OVERLAY (4HSHRT,´,0)                                         A 410
      CALL OVERLAY (4HSHRT,5,0)                                         A 415
 45   CONTINUE                                                          A 420
      CALL TBLSET                                                       A 425
      CALL OVERLAY (4HSHRT,6,0)                                         A 430
      CALL TEND                                                         A 435
C     FORMATS                                                           A 440
      WRITE (TOUT,100)                                                  A 445
 50   CONTINUE                                                          A 450
      WRITE (TOUT,95)                                                   A 45:
C                                                                       A 460
C                                                                       A 465
      STOP                                                              A 470
C                                                                       A 475
 55   FORMAT (8A10)                                                     A 480
 60   FORMAT (A1)                                                       A 485
 65   FORMAT (A3)                                                       A 490
 70   FORMAT (3I2)                                                      A 495
 75   FORMAT (T5,*ENTER RUN DATE(10 CHAR MAX):*)                        A 500
 80   FORMAT (T5,*CHARACTERS ACCEPTED=*,6A10)                           A 505
 85   FORMAT (T5,*VALUE ACCEPTED=*,A2)                                  A 510
 90   FORMAT (T5,*ENTER 3 CHAR PERSONAL INITIALS:*)                     A 515
 95   FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                    A 520
 100  FORMAT (//T10,*vvvvv ERROR IN JMPP,JMPP LT 0*)                    A 525
 105  FORMAT (T5,*ENTER 1 IF YOU WANT TO ENTER RI ONLY,*,/T5,*ENTER 2  F  A 530
     $OR MIXED PCB STDS,*,/T5,*ENTER 3 FOR INDIVIDUAL PCB STDS....=*)   A 535
      END                                                               A 540-
```

```
      SUBROUTINE SVFILE(IXCHNG,IFLAG,IFLDLN)                            B   5
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   B  10
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           B  15
      DIMENSION IXCHNG(17), IFLDLN(40000B)                              B  20
      IFLAG = 1                                                         B  25
      END FILE SPA                                                      B  30
      END FILE SPB                                                      B  35
      END FILE SPC                                                      B  40
      END FILE SPD                                                      B  45
      WRITE (TOUT,5)                                                    B  50
      RETURN                                                            B  55
      ENTRY CHKSUM                                                      B  60
C                                                                       B  65
    5 FORMAT (//T5,*ENDFILE PERFORMED, SYSTEM ERROR ENCNTRED*)          B  70
      END                                                               B  75
```

```
      OVERLAY(SHRT,1,0)                                                 C   5
      PROGRAM ONEZERO                                                   C  10
      DIMENSION IROUT(10)                                               C  15
      COMMON /SET1/ RIN(8),ROUT(10)                                     C  20
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   C  25
      EQUIVALENCE (IROUT,ROUT)                                          C  30
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           C  35
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              C  40
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  C  45
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         C  50
      COMMON /SET5/ DDECON(50),RDDE(50)                                 C  55
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     C  60
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 C  65
      COMMON /SET8/ FRACC(20),FRACM(20)                                 C  70
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             C  75
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                C  80
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  C  85
      COMMON /SET12/ ANORM,SAMUNIT                                      C  90
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       C  95
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       C 100
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      C 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        C 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ C 115
      DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        C 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                C 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              C 130
      INTEGER CHL(20)                                                   C 135
      DATA CHL/20*9/                                                    C 140
      CALL RISET                                                        C 145
      RETURN                                                            C 150
      END                                                               C 155-
```

```
OVERLAY(SHRT,2,0)                                                       D   5
PROGRAM TWOZERO                                                         D  10
DIMENSION IROUT(10)                                                     D  15
COMMON /SET1/ RIN(8),ROUT(10)                                           D  20
COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                         D  25
EQUIVALENCE (IROUT,ROUT)                                                D  30
INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                                 D  35
COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                                    D  40
COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                        D  45
COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)               D  50
COMMON /SET5/ DDECON(50),RDDE(50)                                       D  55
COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)           D  60
COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                       D  65
COMMON /SET8/ FRACC(20),FRACM(20)                                       D  70
COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)                   D  75
COMMON /SET10/ CMI(8,5),CSCON(8,5)                                      D  80
COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL        D  85
COMMON /SET12/ ANORM,SAMUNIT                                            D  90
COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                             D  95
COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM             D 100
COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                            D 105
DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/              D 110
DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/      D 115
DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/              D 120
DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                      D 125
DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/                    D 130
INTEGER CHL(20)                                                         D 135
DATA CHL/20*9/                                                          D 140
CALL FSET                                                               D 145
CALL STDST                                                              D 150
RETURN                                                                  D 155
END                                                                     D 160-
```

```
      OVERLAY(SHRT,3,0)                                                 E   5
      PROGRAM THRZERO                                                   E  10
      DIMENSION IROUT(10)                                               E  15
      COMMON /SET1/ RIN(8),ROUT(10)                                     E  20
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   E  25
      EQUIVALENCE (IROUT,ROUT)                                          E  30
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           E  35
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              E  40
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  E  45
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         E  50
      COMMON /SET5/ DDECON(50),RDDE(50)                                 E  55
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     E  60
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 E  65
      COMMON /SET8/ FRACC(20),FRACM(20)                                 E  70
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             E  75
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                E  80
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  E  85
      COMMON /SET12/ ANORM,SAMUNIT                                      E  90
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       E  95
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       E 100
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      E 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        E 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ E 115
      DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        E 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                E 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              E 130
      INTEGER CHL(20)                                                   E 135
      DATA CHL/20*9/                                                    E 140
      CALL EACHPCB                                                      E 145
      RETURN                                                            E 150
      END                                                               E 155-
```

```
      OVERLAY(SHRT,4,0)                                                 F   5
      PROGRAM FOUZERO                                                   F  10
      DIMENSION IROUT(10)                                               F  15
      COMMON /SET1/ RIN(8),ROUT(10)                                     F  20
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   F  25
      EQUIVALENCE (IROUT,ROUT)                                          F  30
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           F  35
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              F  40
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  F  45
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         F  50
      COMMON /SET5/ DDECON(50),RDDE(50)                                 F  55
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     F  60
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 F  65
      COMMON /SET8/ FRACC(20),FRACM(20)                                 F  70
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             F  75
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                F  80
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  F  85
      COMMON /SET12/ ANORM,SAMUNIT                                      F  90
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       F  95
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       F 100
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      F 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        F 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ F 115
      DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        F 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                F 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              F 130
      INTEGER CHL(20)                                                   F 135
      DATA CHL/20*9/                                                    F 140
      CALL DDEST                                                        F 145
      RETURN                                                            F 150
      END                                                               F 155
```

```
OVERLAY(SHRT,5,0)                                                       G   5
PROGRAM FIVZERO                                                         G  10
DIMENSION IROUT(10)                                                     G  15
COMMON /SET1/ RIN(8),ROUT(10)                                           G  20
COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                         G  25
EQUIVALENCE (IROUT,ROUT)                                                G  30
INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                                 G  35
COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                                    G  40
COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                        G  45
COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)               G  50
COMMON /SET5/ DDECON(50),RDDE(50)                                       G  55
COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)           G  60
COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                       G  65
COMMON /SET8/ FRACC(20),FRACM(20)                                       G  70
COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)                   G  75
COMMON /SET10/ CHI(8,5),CSCON(8,5)                                      G  80
COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL        G  85
COMMON /SET12/ ANORM,SAMUNIT                                            G  90
COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                             G  95
COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM             G 100
COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                            G 105
DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/              G 110
DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/      G 115
DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/              G 120
DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                      G 125
DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/                    G 130
INTEGER CHL(20)                                                         G 135
DATA CHL/20*9/                                                          G 140
CALL RICAL                                                              G 145
RETURN                                                                  G 150
END                                                                     G 155
```

```
OVERLAY(SHRT,6,0)                                                       H   5
PROGRAM SIXZERO                                                         H  10
DIMENSION IROUT(10)                                                     H  15
COMMON /SET1/ RIN(8),ROUT(10)                                           H  20
COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                         H  25
EQUIVALENCE (IROUT,ROUT)                                                H  30
INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                                 H  35
COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                                    H  40
COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                        H  45
COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)               H  50
COMMON /SET5/ DDECON(50),RDDE(50)                                       H  55
COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)           H  60
COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                       H  65
COMMON /SET8/ FRACC(20),FRACM(20)                                       H  70
COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)                   H  75
COMMON /SET10/ CMI(8,5),CSCON(8,5)                                      H  80
COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL        H  85
COMMON /SET12/ ANORM,SAMUNIT                                            H  90
COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                             H  95
COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM             H 100
COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                            H 105
DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/              H 110
DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/      H 115
DATA LBL9/2HRI/,LBL10/2HMI/,LBL11/7HSAM INJ/,LBL12/4HNOR=/              H 120
DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/8HGROUP MN/                      H 125
DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/                    H 130
INTEGER CHL(20)                                                         H 135
DATA CHL/20*9/                                                          H 140
IF (SHIFT.NE.1.0) CALL SAMIN                                            H 145
IF (SHIFT.EQ.1.0) CALL SAMIN2                                           H 150
RETURN                                                                  H 155
END                                                                     H 160-
```

```
      SUBROUTINE FSET                                                   J   4
      DIMENSION IROUT(10)                                               J   5
      COMMON /SET1/ RIN(8),ROUT(10)                                     J  10
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   J  15
      EQUIVALENCE (IROUT,ROUT)                                          J  20
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           J  25
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              J  30
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  J  35
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         J  40
      COMMON /SET5/ DDECON(50),RDDE(50)                                 J  45
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     J  50
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 J  55
      COMMON /SET8/ FRACC(20),FRACM(20)                                 J  60
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             J  65
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                J  70
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  J  75
      COMMON /SET12/ ANORM,SAMUNIT                                      J  80
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       J  85
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       J  90
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      J  95
      COMMON /SET16/ CHL(20),ISAMINJ                                    J 100
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        J 105
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ J 110
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        J 115
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               J 120
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              J 125
      INTEGER CHL                                                       J 130
      CALL FISET (CHL,JMPP)                                             J 135
      IF (JMPP) 30,5,25                                                 J 140
C     ENTER NO CLUSTERS                                                 J 145
    5 CONTINUE                                                          J 150
      WRITE (TOUT,45)                                                   J 155
      READ (TIN,40) RIN                                                 J 160
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     J 165
      IF (NELM.GT.1) WRITE (TOUT,80)                                    J 170
      IF (NELM.GT.1) GO TO 5                                            J 175
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.20) WRITE (TOUT,75)              J 180
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.20) GO TO 5                      J 185
```

```
      NOCLU = IROUT(1)                                                  J 190
      WRITE (TOUT,85) NOCLU                                             J 195
      CALL CKCORRT (LBL3,JANS)                                          J 200
      IF (JANS) 10,35,5                                                 J 205
C                                                                       J 210
 10   CONTINUE                                                          J 215
C     ENTER CLUSTER TABLE                                               J 220
      WRITE (TOUT,50)                                                   J 225
      WRITE (TOUT,55)                                                   J 230
      DO 20 I=1,NOCLU                                                   J 235
 15        WRITE (TOUT,60) I                                            J 240
           READ (TIN,40) RIN                                            J 245
           NELM = KNVRT(RIN,1,80,ROUT,3)                                J 250
           IF (NELM.NE.2) WRITE (TOUT,80)                               J 255
           IF (NELM.NE.2) GO TO 15                                      J 260
           IF (ROUT(1).GT.1.0.OR.ROUT(1).LT.1.E-25) WRITE (TOUT,65)     J 265
           IF (ROUT(1).GT.1.0.OR.ROUT(1).LT.1.E-25) GO TO 15            J 270
           IF (IROUT(2).LT.2.OR.IROUT(2).GT.7) WRITE (TOUT,70)          J 275
           IF (IROUT(2).LT.2.OR.IROUT(2).GT.7) GO TO 15                 J 280
           FI(I) = ROUT(1)                                              J 285
           CHL(I) = IROUT(2)                                            J 290
 20   CONTINUE                                                          J 295
 25   CONTINUE                                                          J 300
      NSTRT = 1                                                         J 305
      NSTOP = NOCLU                                                     J 310
      CALL FICK (NSTRT,NSTOP)                                           J 315
C     FORMATS                                                           J 320
      RETURN                                                            J 325
 30   WRITE (TOUT,95)                                                   J 330
 35   CONTINUE                                                          J 335
      WRITE (TOUT,90)                                                   J 340
C                                                                       J 345
      RETURN                                                            J 350
C                                                                       J 355
C                                                                       J 360
 40   FORMAT (8A10)                                                     J 365
 45   FORMAT (T5,*ENTER NO OF CLUSTERS(20 MAX):*)                       J 370
 50   FORMAT (/T5,*ENTER FI TABLE:*/,T5,*RANGE:1.0-1.0E-25, CHLORINE NO:  J 375
```

```
     $2-7*)                                                              J 380
55    FORMAT (T5,*ENTER DATA IN FORM - FI,CHLORINE NO:*)                 J 385
60    FORMAT (T5,*ENTER CLUSTER *,I2,*:*)                                J 390
65    FORMAT (T5,*ERROR IN FIELD 1*)                                     J 395
70    FORMAT (T5,*ERROR IN FIELD 2*)                                     J 400
75    FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE~*)           J 405
80    FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                       J 410
85    FORMAT (T5,*VALUE ENTERED=*,I10)                                   J 415
90    FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                     J 420
95    FORMAT (//T10,*~~~~~~ ERROR IN JMPP,JMPP LT 0*)                    J 425
      END                                                                J 430-
```

```
      SUBROUTINE FICK(NSTRT,NSTOP)
      DIMENSION IROUT(10)
      COMMON /SET1/ RIN(8),ROUT(10)
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
      EQUIVALENCE (IROUT,ROUT)
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)
      COMMON /SET5/ DDECON(50),RDDE(50)
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)
      COMMON /SET8/ FRACC(20),FRACM(20)
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)
      COMMON /SET10/ CMI(8,5),CSCON(8,5)
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL
      COMMON /SET12/ ANORM,SAMUNIT
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT
      COMMON /SET16/ CHL(20),ISAMINJ
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/
      INTEGER CHL
      GO TO 10
C     CHECK AND CORRECT FI TABLE
 5    CONTINUE
      CALL CKOUT (LBL6,JANS)
      IF (JANS) 30,45,10
C
 10   CONTINUE
      WRITE (TOUT,65) LBL6
      WRITE (TOUT,80) IDATE,MON,IDA,IYR,JDATE,IDPER
      WRITE (TOUT,100)
      WRITE (TOUT,70)
```

```
      DO 15 I=NSTRT,NSTOP                                               K 195
           WRITE (TOUT,85) I,FI(I),CHL(I)                               K 200
 15   CONTINUE                                                          K 205
 20   CONTINUE                                                          K 210
      CALL CKCORRT (LBL3,JANS)                                          K 215
      IF (JANS) 5,45,25                                                 K 220
C                                                                       K 225
 25   CONTINUE                                                          K 230
      WRITE (TOUT,75)                                                   K 235
      READ (TIN,50) RIN                                                 K 240
      NELM = KNVRT(RIN,1,80,ROUT,4)                                     K 245
      IF (NELM.NE.3) WRITE (TOUT,60)                                    K 250
      IF (NELM.NE.3) GO TO 25                                           K 255
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) WRITE (TOUT,55)           K 260
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) GO TO 25                  K 265
      IF (ROUT(2).LT.1.E-25.OR.ROUT(2).GT.1.0) WRITE (TOUT,55)          K 270
      IF (ROUT(2).LT.1.E-25.OR.ROUT(2).GT.1.0) GO TO 25                 K 275
      IF (IROUT(3).LT.2.OR.IROUT(3).GT.7) WRITE (TOUT,55)               K 280
      IF (IROUT(3).LT.2.OR.IROUT(3).GT.7) GO TO 25                      K 285
      JB = IROUT(1)                                                     K 290
      FI(JB) = ROUT(2)                                                  K 295
      CHL(JB) = IROUT(3)                                                K 300
      GO TO 20                                                          K 305
C                                                                       K 310
 30   CONTINUE                                                          K 315
      FT = 0.0                                                          K 320
      DO 35 I=NSTRT,NSTOP                                               K 325
           FT = FT+FI(I)                                                K 330
 35   CONTINUE                                                          K 335
      WRITE (TOUT,90) FT                                                K 340
      CALL CKCORRT (LBL3,JANS)                                          K 345
      IF (JANS) 40,45,25                                                K 350
 40   CONTINUE                                                          K 355
C     FORMATS                                                           K 360
      RETURN                                                            K 365
      WRITE (TOUT,105)                                                  K 370
 45   CONTINUE                                                          K 375
      WRITE (TOUT,95)                                                   K 380
```

```
C
      RETURN
C
C
 50   FORMAT (8A10)
 55   FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE~*)
 60   FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)
 65   FORMAT (/T15,A10,* DATA TABLE:*)
 70   FORMAT (/T5,*CL NO*,T12,* FI *,T26,*NO CHLORINES*)
 75   FORMAT (T5,* ENTER DATA IN FORM CLNO, FI, NO CHLOR:*)
 80   FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,
     $*PERSON:*,A4)
 85   FORMAT (T5,I2,T12,E10.4,T26,I2)
 90   FORMAT (/T5,*.....SUM OF FI,S = *,E10.4)
 95   FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)
 100  FORMAT (T5,*CL=CLUSTER NUMBER*)
 105  FORMAT (//T10,*~~~~~~ ERROR IN JMPP,JMPP LT 0*)
      END
```

```
      SUBROUTINE STDST                                                  L   5
      DIMENSION IROUT(10)                                               L  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     L  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   L  20
      EQUIVALENCE (IROUT,ROUT)                                          L  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           L  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              L  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  L  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         L  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 L  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     L  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 L  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 L  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             L  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                L  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  L  80
      COMMON /SET12/ ANORM,SAMUNIT                                      L  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       L  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       L  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      L 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    L 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        L 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ L 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        L 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               L 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              L 130
      INTEGER CHL                                                       L 135
      EPCB = 1.0                                                        L 140
      CALL STDLB                                                        L 145
C     ENTER STANDARD AREAS                                              L 150
      WRITE (TOUT,50)                                                   L 155
      WRITE (TOUT,45)                                                   L 160
      WRITE (TOUT,40)                                                   L 165
      IF (FORM.EQ.2.0) CALL ARBIN                                       L 170
      IF (FORM.NE.2.0) CALL ARAIN                                       L 175
      GO TO 10                                                          L 180
C     CHECK AND CORRECT STANDARD AREAS                                  L 185
    5 CONTINUE                                                          L 190
```

```
      CALL CKOUT (LBL2,JANS)
      IF (JANS) 30,35,10
C
 10   CONTINUE
      WRITE (TOUT,55) LBL2
      WRITE (TOUT,70) IDATE,MON,IDA,IYR,JDATE,IDPER
      WRITE (TOUT,80) LBL8,STDNAM
      WRITE (TOUT,85)
      WRITE (TOUT,60) (I,I=1,7)
      DO 15 I=1,NOCLU
           WRITE (TOUT,65) I,(AREA(J,I),J=1,NOINJ)
 15   CONTINUE
 20   CONTINUE
      CALL CKCORRT (LBL3,JANS)
      IF (JANS) 5,35,25
 25   CONTINUE
      CALL ACRIN
      GO TO 20
C
 30   CONTINUE
C     FORMATS
      RETURN
 35   CONTINUE
      WRITE (TOUT,75)
C
      RETURN
C
C
 40   FORMAT (T5,* MAX NO ENTRIES ACCEPTED PER CLUSTER=10:*)
 45   FORMAT (T5,*ENTER ONLY INTEGERS FOR AREAS, MIN=1,MAX=999999 vvv*)
 50   FORMAT (T5,*ENTER STD RAW AREAS TABLE:*)
 55   FORMAT (/T15,A10,* DATA TABLE:*)
 60   FORMAT (T5,*CL*,T9,7(*AREA *,I1,2X))
 65   FORMAT (T5,I2,T9,7(F6.0,2X))
 70   FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,
     $*PERSON:*,A4)
 75   FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)
 80   FORMAT (T5,A10,* NAMES:*,5A10)
```

```
85    FORMAT (T5,*CL=CLUSTER NUMBER*)                                L 385
      END                                                            L 390-
```

```
      SUBROUTINE ARAIN                                                  M   5
      DIMENSION IROUT(10)                                               M  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     M  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   M  20
      EQUIVALENCE (IROUT,ROUT)                                          M  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           M  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              M  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  M  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         M  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 M  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     M  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 M  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 M  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             M  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                M  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  M  80
      COMMON /SET12/ ANORM,SAMUNIT                                      M  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       M  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       M  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      M 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    M 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        M 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ M 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        M 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               M 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              M 130
      INTEGER CHL                                                       M 135
5     CONTINUE                                                          M 140
      DO 30 I=1,NOINJ                                                   M 145
10        CONTINUE                                                      M 150
          DO 25 J=1,NOCLU                                               M 155
15            CONTINUE                                                  M 160
              AREA(I,J) = 0.0                                           M 165
              WRITE (TOUT,40) I,J                                       M 170
              READ (TIN,35) RIN                                         M 175
              IF (RIN(1).EQ.10HSSSSSSSSSS) GO TO 5                      M 180
              IF (RIN(1).EQ.10HXXXXXXXXXX.AND.J.EQ.1.AND.I.NE.1) I = I  M 185
     $        -1                                                        M 190
```

```
                IF (RIN(1).EQ.10HXXXXXXXXXX.AND.J.EQ.1.AND.I.NE.1)          M 195
     $           GO TO 10                                                   M 200
                IF (RIN(1).EQ.10HXXXXXXXXXX) GO TO 10                       M 205
                NELM = KNVRT(RIN,1,80,ROUT,10)                              M 210
                IF (NELM.GT.10.OR.NELM.LT.1) WRITE (TOUT,50)                M 215
                IF (NELM.GT.10.OR.NELM.LT.1) GO TO 15                       M 220
                DO 20 K=1,NELM                                              M 225
                     AREA(I,J) = AREA(I,J)+FLOAT(IROUT(K))                  M 230
                     IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) WRITE         M 235
     $               (TOUT,45)                                              M 240
                     IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) GO TO 15      M 245
 20             CONTINUE                                                    M 250
 25        CONTINUE                                                         M 255
 30   CONTINUE                                                              M 260
C     FORMATS                                                               M 265
C                                                                           M 270
      RETURN                                                                M 275
C                                                                           M 280
C                                                                           M 285
 35   FORMAT (8A10)                                                         M 290
 40   FORMAT (T5,*ENTER INJ NO *,I2,*,CLUSTER NO *,I2,*:*)                  M 295
 45   FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)               M 300
 50   FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                          M 305
      END                                                                   M 310-
```

```
      SUBROUTINE DDEST                                                  N   5
      DIMENSION IROUT(10)                                               N  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     N  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   N  20
      EQUIVALENCE (IROUT,ROUT)                                          N  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           N  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              N  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  N  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         N  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 N  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     N  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 N  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 N  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             N  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                N  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  N  80
      COMMON /SET12/ ANORM,SAMUNIT                                      N  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       N  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       N  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      N 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    N 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        N 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ N 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        N 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               N 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              N 130
      INTEGER CHL                                                       N 135
C     ENTER DDE STD CONC,INJ VOL AREAS                                  N 140
      WRITE (TOUT,190)                                                  N 145
      WRITE (TOUT,95)                                                   N 150
      READ (TIN,90) NAMDDE                                              N 155
    5 CONTINUE                                                          N 160
      WRITE (TOUT,100)                                                  N 165
      READ (TIN,90) RIN                                                 N 170
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     N 175
      IF (NELM.NE.1) WRITE (TOUT,155)                                   N 180
      IF (NELM.NE.1) GO TO 5                                            N 185
      IF (IROUT(1).GT.7.OR.IROUT(1).LT.1) WRITE (TOUT,140)              N 190
```

```
      IF (IROUT(1).GT.7.OR.IROUT(1).LT.1) GO TO 5                       N 195
      NODDECN = IROUT(1)                                                N 200
      WRITE (TOUT,185) NODDECN                                          N 205
      CALL CKCORRT (LBL3,JANS)                                          N 210
      IF (JANS) 10,85,5                                                 N 215
C                                                                       N 220
 10   CONTINUE                                                          N 225
      DO 20 I=1,NODDECN                                                 N 230
 15        CONTINUE                                                     N 235
           WRITE (TOUT,105) I                                           N 240
           READ (TIN,90) RIN                                            N 245
           NELM = KNVRT(RIN,1,80,ROUT,9)                                N 250
           IF (NELM.GT.1) WRITE (TOUT,155)                              N 255
           IF (NELM.GT.1) GO TO 15                                      N 260
           IF (ROUT(1).LT.1.E-25.OR.ROUT(1).GT.1.) WRITE (TOUT,140)     N 265
           IF (ROUT(1).LT.1.E-25.OR.ROUT(1).GT.1.) GO TO 15             N 270
           CDE(I) = ROUT(1)                                             N 275
 20   CONTINUE                                                          N 280
 25   CONTINUE                                                          N 285
      WRITE (TOUT,110)                                                  N 290
      READ (TIN,90) RIN                                                 N 295
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     N 300
      IF (NELM.GT.1) WRITE (TOUT,155)                                   N 305
      IF (NELM.GT.1) GO TO 25                                           N 310
      IF (IROUT(1).GT.50.OR.IROUT(1).LT.1) WRITE (TOUT,140)             N 315
      IF (IROUT(1).GT.50.OR.IROUT(1).LT.1) GO TO 25                     N 320
      NODDEIN = IROUT(1)                                                N 325
      WRITE (TOUT,185) NODDEIN                                          N 330
      CALL CKCORRT (LBL3,JANS)                                          N 335
      IF (JANS) 30,85,25                                                N 340
C                                                                       N 345
 30   CONTINUE                                                          N 350
      WRITE (TOUT,115)                                                  N 355
      DO 40 I=1,NODDEIN                                                 N 360
 35        CONTINUE                                                     N 365
           WRITE (TOUT,120) I                                           N 370
           READ (TIN,90) RIN                                            N 375
           NELM = KNVRT(RIN,1,80,ROUT,5)                                N 380
```

```
          IF (NELM.NE.3) WRITE (TOUT,155)                                N 385
          IF (NELM.NE.3) GO TO 35                                        N 390
          IF (IROUT(1).LT.1.OR.IROUT(1).GT.NODDECN) WRITE (TOUT,125)     N 395
          IF (IROUT(1).LT.1.OR.IROUT(1).GT.NODDECN) GO TO 35             N 400
          IF (ROUT(2).LT.0.01.OR.ROUT(2).GT.9.99) WRITE (TOUT,130)       N 405
          IF (ROUT(2).LT.0.01.OR.ROUT(2).GT.9.99) GO TO 35               N 410
          IF (IROUT(3).LT.1.OR.IROUT(3).GT.999999) WRITE (TOUT,135)      N 415
          IF (IROUT(3).LT.1.OR.IROUT(3).GT.999999) GO TO 35              N 420
          ARDDE(I) = FLOAT(IROUT(3))                                     N 425
          DDEINJ(I) = ROUT(2)                                            N 430
          JJ = IROUT(1)                                                  N 435
          DDECON(I) = CDE(JJ)                                            N 440
 40     CONTINUE                                                        N 445
        GO TO 50                                                        N 450
C       CHECK AND CORRECT DDE DATA ENTRIES                              N 455
 45     CONTINUE                                                        N 460
        CALL CKOUT (LBL1,JANS)                                          N 465
        IF (JANS) 80,85,50                                              N 470
C                                                                       N 475
 50     CONTINUE                                                        N 480
        SRDDE = 0.0                                                     N 485
        SRRDDE = 0.0                                                    N 490
        SRDDEPT = 0.0                                                   N 495
        DO 55 I=1,NODDEIN                                               N 500
          RDDE(I) = 1000.*ARDDE(I)/(DDECON(I)*DDEINJ(I))                N 505
          IF (ARDDE(I).LT.2.) RDDE(I) = 1.                              N 510
          SRDDE = SRDDE+RDDE(I)                                         N 515
          SRRDDE = SRRDDE+RDDE(I)**2                                    N 520
          IF (ARDDE(I).LT.2.) GO TO 55                                  N 525
          SRDDEPT = SRDDEPT+1.0                                         N 530
 55     CONTINUE                                                        N 535
        WRITE (TOUT,170) LBL1                                           N 540
        WRITE (TOUT,180) IDATE,MON,IDA,IYR,JDATE,IDPER                  N 545
        WRITE (TOUT,200) LBL1,NAMDDE                                    N 550
        WRITE (TOUT,145)                                                N 555
        DO 60 I=1,NODDEIN                                               N 560
          WRITE (TOUT,150) I,DDEINJ(I),DDECON(I),ARDDE(I),RDDE(I)       N 565
 60     CONTINUE                                                        N 570
```

```
      DDEAVG = SRDDE/SRDDEPT                                            N 575
      DDESTD = 0.0                                                      N 580
      IF (SRDDEPT.LT.3.) GO TO 65                                       N 585
      DDESTD = SQRT((1./(SRDDEPT-1.))*(SRRDDE-(SRDDE**2)/SRDDEPT))      N 590
 65   CONTINUE                                                          N 595
      WRITE (TOUT,160) LBL4,DDEAVG,DDESTD                               N 600
      WRITE (TOUT,165) LBL4,SRDDE,SRRDDE,SRDDEPT                        N 605
 70   CONTINUE                                                          N 610
      CALL CKCORRT (LBL3,JANS)                                          N 615
      IF (JANS) 45,85,75                                                N 620
C                                                                       N 625
 75   CONTINUE                                                          N 630
      WRITE (TOUT,175)                                                  N 635
      WRITE (TOUT,205)                                                  N 640
      READ (TIN,90) RIN                                                 N 645
      NELM = INVRT(RIN,1,80,ROUT,5)                                     N 650
      IF (NELM.NE.4) WRITE (TOUT,155)                                   N 655
      IF (NELM.NE.4) GO TO 75                                           N 660
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NODDEIN) WRITE (TOUT,140)        N 665
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NODDEIN) GO TO 75                N 670
      IF (ROUT(2).LT.0.01.OR.ROUT(2).GT.9.99) WRITE (TOUT,140)          N 675
      IF (ROUT(2).LT.0.01.OR.ROUT(2).GT.9.99) GO TO 75                  N 680
      IF (ROUT(3).LT.1.E-25.OR.ROUT(3).GT.1.) WRITE (TOUT,140)          N 685
      IF (ROUT(3).LT.1.E-25.OR.ROUT(3).GT.1.) GO TO 75                  N 690
      IF (IROUT(4).LT.1.OR.IROUT(4).GT.999999) WRITE (TOUT,140)         N 695
      IF (IROUT(4).LT.1.OR.IROUT(4).GT.999999) GO TO 75                 N 700
      JE = IROUT(1)                                                     N 705
      DDECON(JE) = ROUT(3)                                              N 710
      DDEINJ(JE) = ROUT(2)                                              N 715
      ARDDE(JE) = FLOAT(IROUT(4))                                       N 720
      GO TO 70                                                          N 725
C                                                                       N 730
 80   CONTINUE                                                          N 735
C     FORMATS                                                           N 740
      RETURN                                                            N 745
 85   CONTINUE                                                          N 750
      WRITE (TOUT,195)                                                  N 755
C                                                                       N 760
```

```
      RETURN                                                            N 765
C                                                                       N 770
C                                                                       N 775
 90   FORMAT (8A10)                                                     N 780
 95   FORMAT (T5,*ENTER DDE STD NAMES(50 CHAR MAX):*)                   N 785
 100  FORMAT (T5,*ENTER NO OF STD DDE CONC USED(7 MAX):*)               N 790
 105  FORMAT (T5,*ENTER DDE STD CONC NO *,I2,*:*)                       N 795
 110  FORMAT (T5,*ENTER NO OF INJ (50 MAX):*)                           N 800
 115  FORMAT (T5,*ENTER STD DDE CONC DATA IN FORM:STD NO,INJVOL,AREA*/T5 N 805
     $,*STD NO AND AREA =INTEGER,INJ VOL = REAL*)                       N 810
 120  FORMAT (T5,*ENTER DATA FOR DDE INJ NO *,I2,*:*)                   N 815
 125  FORMAT (T5,*ERROR IN FIELD 1*)                                    N 820
 130  FORMAT (T5,*ERROR IN FIELD 2*)                                    N 825
 135  FORMAT (T5,*ERROR IN FIELD 3*)                                    N 830
 140  FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)           N 835
 145  FORMAT (/T5,*NO*,T12,*INJ VOL*,T24,*CONC*,T34,*AREA*,T42,*RDDE*)  N 840
 150  FORMAT (T5,I2,T12,F5.2,T22,E10.4,T34,F6.0,T42,E10.4)              N 845
 155  FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                      N 850
 160  FORMAT (/T5,A4,T10,*AVG=*,E10.4,T30,*STD DEV=*,E10.4)             N 855
 165  FORMAT (T5,A4,T10,*STATS:*,T18,*SR=*,E10.4,T35,*SRR=*,E10.4,T54,  N 860
     $*SPT=*,F4.1)                                                      N 865
 170  FORMAT (/T15,A10,* DATA TABLE:*)                                  N 870
 175  FORMAT (T5,* REENTER WHOLE LINE OF DATA...*/T5*=*)                N 875
 180  FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     N 880
     $*PERSON:*,A4)                                                     N 885
 185  FORMAT (T5,*VALUE ENTERED=*,I10)                                  N 890
 190  FORMAT (/T5,*ENTER DDE STANDARD DATA:*)                           N 895
 195  FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                    N 900
 200  FORMAT (T5,A10,* NAMES:*,5A10)                                    N 905
 205  FORMAT (T5,*DO NOT REENTER RDDE, IT IS CALCULATED*/T5,*=*)        N 910
      END                                                               N 915-
```

```
SUBROUTINE RICAL
DIMENSION IROUT(10)
COMMON /SET1/ RIN(8),ROUT(10)
COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
EQUIVALENCE (IROUT,ROUT)
INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)
COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)
COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)
COMMON /SET5/ DDECON(50),RDDE(50)
COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)
COMMON /SET7/ SRPT(20),SRM(20),SRPM(20),SRMPT(20)
COMMON /SET8/ FRACC(20),FRACM(20)
COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)
COMMON /SET10/ CMI(8,5),CSCON(8,5)
COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL
COMMON /SET12/ ANORM,SAMUNIT
COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)
COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM
COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT
COMMON /SET16/ CHL(20),ISAMINJ
DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/
DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/
DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/
DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/
DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/
INTEGER CHL
ENTERED ALL STD DATA, CALC RI↑S
CALCULATE RI FOR PCB STANDARDS
IF (EPCB.GT.1.0) GO TO 25
DO 10 J=1,NOCLU
     SR(J) = 0.0
     SRR(J) = 0.0
     SRPT(J) = 0.0
     DO 5 I=1,NOINJ
          AMI = 0.001*CONC(I)*STDINJ(I)*FI(J)
          R(I,J) = AREA(I,J)/AMI
          IF (AREA(I,J).LT.2.) R(I,J) = 1.0
```

```
                SR(J) = SR(J)+R(I,J)                                    0 195
                SRR(J) = SRR(J)+R(I,J)**2                               0 200
                IF (AREA(I,J).LT.2.) GO TO 5                            0 205
                SRPT(J) = SRPT(J)+1.0                                   0 210
 5          CONTINUE                                                   0 215
 10   CONTINUE                                                         0 220
      CALL CKOUT (LBL9,JANS)                                            0 225
      IF (JANS) 25,50,15                                                0 230
C                                                                       0 235
      ENTRY RICAL2                                                      0 240
 15   CONTINUE                                                         0 245
      WRITE (TOUT,55) LBL9                                              0 250
      WRITE (TOUT,95) LBL2,STDNAM                                       0 255
      WRITE (TOUT,60) IDATE,MON,IDA,IYR,JDATE,IDPER                     0 260
      WRITE (TOUT,100)                                                  0 265
      WRITE (TOUT,65) (I,I=1,7)                                         0 270
      DO 20 J=1,NOCLU                                                   0 275
           WRITE (TOUT,70) J,(R(I,J),I=1,NOINJ)                         0 280
 20   CONTINUE                                                         0 285
 25   CONTINUE                                                         0 290
      DO 35 J=1,NOCLU                                                   0 295
           RAVG(J) = 0.0                                                0 300
           SI(J) = 0.0                                                  0 305
           IF (SRPT(J).LT.1.0) GO TO 30                                 0 310
           RAVG(J) = SR(J)/SRPT(J)                                      0 315
           SI(J) = RAVG(J)/DDEAVG                                       0 320
 30        CONTINUE                                                     0 325
           RSD(J) = 0.0                                                 0 330
           IF (SRPT(J).LT.3.) GO TO 35                                  0 335
           RSD(J) = SQRT((1./(SRPT(J)-1.))*(SRR(J)-(SR(J)**2)/SRPT(J)))  0 340
 35   CONTINUE                                                         0 345
      WRITE (TOUT,55) LBL9                                              0 350
      WRITE (TOUT,60) IDATE,MON,IDA,IYR,JDATE,IDPER                     0 355
      WRITE (TOUT,95) LBL2,STDNAM                                       0 360
      WRITE (TOUT,100)                                                  0 365
      WRITE (TOUT,75)                                                   0 370
      DO 40 I=1,NOCLU                                                   0 375
           WRITE (TOUT,80) I,RAVG(I),RSD(I),SR(I),SRR(I),SRPT(I),SI(I)  0 380
```

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 40   CONTINUE                                                          0 385
      JV = 1                                                            0 390
      WRITE (SPC,85) LBL18,JDATE,IYR,MON,IDA,IDPER,JV,IEND,DDEAVG,DDESTD 0 395
     $,SRDDE,SRRDDE,SRDDEPT                                             0 400
      DO 45 JW=1,20                                                     0 405
           JV = JW+1                                                    0 410
           WRITE (SPC,85) LBL18,JDATE,IYR,MON,IDA,IDPER,JV,IEND,RAVG(JW) 0 415
     $     ,RSD(JW),SR(JW),SRR(JW),SRPT(JW),SI(JW)                      0 420
 45   CONTINUE                                                          0 425
C     FORMATS                                                           0 430
      IF (EPCB.GT.1.0) RETURN                                           0 435
      WRITE (TOUT,105)                                                  0 440
      READ (TIN,110) IAN                                                0 445
      IF (IAN.EQ.1H1) CALL STDRECL                                      0 450
      RETURN                                                            0 455
 50   CONTINUE                                                          0 460
      WRITE (TOUT,90)                                                   0 465
C                                                                       0 470
      RETURN                                                            0 475
C                                                                       0 480
C                                                                       0 485
 55   FORMAT (/T15,A10,* DATA TABLE:*)                                  0 490
 60   FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     0 495
     $*PERSON:*,A4)                                                     0 500
 65   FORMAT (T5,*CL*,T9,7(3X,*RI *,I2,2X))                             0 505
 70   FORMAT (T5,I2,T9,7(E9.3,1X))                                      0 510
 75   FORMAT (T5,*CLNO*,T10,*RAVG*,T21,*STDDEV*,T32,*SR*,T43,*SRR*,T54, 0 515
     $*SPT*,T66,*SI*)                                                   0 520
 80   FORMAT (T5,I2,T10,6(E10.4,1X))                                    0 525
 85   FORMAT (T2,A5,I3,3I2,A3,2I2,8E10.4,I2)                            0 530
 90   FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                    0 535
 95   FORMAT (T5,A10,* NAMES:*,5A10)                                    0 540
 100  FORMAT (T5,*CL=CLUSTER NUMBER*)                                   0 545
 105  FORMAT (/T5,*ENTER 1.0 TO BACK CALC STD CONC,OTHERWISE 0.0:*)     0 550
 110  FORMAT (A1)                                                       0 555
      END                                                               0 560-
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```
      SUBROUTINE SAMIN                                                  P   5
      DIMENSION IROUT(10)                                               P  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     P  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   P  20
      EQUIVALENCE (IROUT,ROUT)                                          P  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           P  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              P  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  P  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         P  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 P  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     P  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 P  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 P  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             P  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                P  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  P  80
      COMMON /SET12/ ANORM,SAMUNIT                                      P  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       P  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       P  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      P 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    P 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        P 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ P 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        P 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               P 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              P 130
      INTEGER CHL                                                       P 135
C     SAMPLE CALC, ENTRY ETC.                                           P 140
    5 CONTINUE                                                          P 145
      WRITE (TOUT,225)                                                  P 150
      READ (TIN,135) SAMNAME                                            P 155
      WRITE (TOUT,245) SAMNAME                                          P 160
      CALL CKCORRT (LBL14,JANS)                                         P 165
      IF (JANS) 10,125,5                                                P 170
   10 CONTINUE                                                          P 175
      WRITE (TOUT,250)                                                  P 180
      READ (TIN,145) IDCHAR                                             P 185
      WRITE (TOUT,245) IDCHAR                                           P 190
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      CALL CKCORRT (LBL14,JANS)                                         P 195
      IF (JANS) 15,125,10                                               P 200
   15 CONTINUE                                                          P 205
      WRITE (TOUT,230)                                                  P 210
      READ (TIN,135) SAMUNIT                                            P 215
      WRITE (TOUT,245) SAMUNIT                                          P 220
      CALL CKCORRT (LBL14,JANS)                                         P 225
      IF (JANS) 20,125,15                                               P 230
   20 CONTINUE                                                          P 235
      WRITE (TOUT,270)                                                  P 240
   25 CONTINUE                                                          P 245
      READ (TIN,135) RIN                                                P 250
      NELM = KNVRT(RIN,1,80,ROUT,7)                                     P 255
      IF (NELM.NE.4) WRITE (TOUT,190)                                   P 260
      IF (NELM.NE.4) GO TO 30                                           P 265
      IF (IROUT(1).LT.(1).OR.IROUT(1).GT.(99)) WRITE (TOUT,155)         P 270
      IF (IROUT(1).LT.(1).OR.IROUT(1).GT.(99)) GO TO 30                 P 275
      IF (IROUT(2).LT.(1).OR.IROUT(2).GT.(5)) WRITE (TOUT,160)          P 280
      IF (IROUT(2).LT.(1).OR.IROUT(2).GT.(5)) GO TO 30                  P 285
      IF (ROUT(3).LT.(1.E-25).OR.ROUT(3).GT.(1.E25)) WRITE (TOUT,165)   P 290
      IF (ROUT(3).LT.(1.E-25).OR.ROUT(3).GT.(1.E25)) GO TO 30           P 295
      IF (ROUT(4).LT.(1.E-3).OR.ROUT(4).GT.(1.E25)) WRITE (TOUT,170)    P 300
      IF (ROUT(4).LT.(1.E-3).OR.ROUT(4).GT.(1.E25)) GO TO 30            P 305
      ITYPE = IROUT(1)                                                  P 310
      ISAMINJ = IROUT(2)                                                P 315
      ANORM = ROUT(3)                                                   P 320
      FINVOL = ROUT(4)                                                  P 325
      WRITE (TOUT,260)                                                  P 330
      WRITE (TOUT,265) ITYPE,ISAMINJ,ANORM,FINVOL                       P 335
      CALL CKCORRT (LBL14,JANS)                                         P 340
      IF (JANS) 35,125,30                                               P 345
   30 CONTINUE                                                          P 350
      WRITE (TOUT,210)                                                  P 355
      GO TO 25                                                          P 360
C                                                                       P 365
   35 CONTINUE                                                          P 370
      WRITE (TOUT,235)                                                  P 375
      READ (TIN,135) RIN                                                P 380
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      NELM = KNVRT(RIN,1,80,ROUT,7)                                     P 385
      IF (NELM.NE.ISAMINJ) WRITE (TOUT,235)                             P 390
      IF (NELM.NE.ISAMINJ) GO TO 35                                     P 395
      DO 40 I=1,ISAMINJ                                                 P 400
           VOLINJ(I) = ROUT(I)                                          P 405
           IF (ROUT(I).LT.1.E-3.OR.ROUT(I).GT.9.99) WRITE (TOUT,175)    P 410
           IF (ROUT(I).LT.1.E-3.OR.ROUT(I).GT.9.99) GO TO 35            P 415
 40   CONTINUE                                                          P 420
 45   CONTINUE                                                          P 425
      WRITE (TOUT,280) (VOLINJ(K),K=1,ISAMINJ)                          P 430
      CALL CKCORRT (LBL3,JANS)                                          P 435
      IF (JANS) 50,125,35                                               P 440
 50   CONTINUE                                                          P 445
      CALL CKOUT (LBL11,JANS)                                           P 450
      IF (JANS) 75,125,55                                               P 455
C                                                                       P 460
 55   CONTINUE                                                          P 465
      WRITE (TOUT,195) LBL11                                            P 470
      WRITE (TOUT,220) IDATE,MON,IDA,IYR,JDATE,IDPER                    P 475
      WRITE (TOUT,180)                                                  P 480
      DO 60 I=1,ISAMINJ                                                 P 485
           WRITE (TOUT,185) I,VOLINJ(I)                                 P 490
 60   CONTINUE                                                          P 495
      CALL CKCORRT (LBL3,JANS)                                          P 500
      IF (JANS) 45,125,65                                               P 505
C                                                                       P 510
 65   CONTINUE                                                          P 515
      WRITE (TOUT,210)                                                  P 520
      READ (TIN,135) RIN                                                P 525
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     P 530
      IF (NELM.NE.2) WRITE (TOUT,190)                                   P 535
      IF (NELM.NE.2) GO TO 65                                           P 540
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.ISAMINJ) WRITE (TOUT,155)        P 545
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.ISAMINJ) GO TO 65                P 550
      IF (ROUT(2).LT.1.E-3.OR.ROUT(2).GT.9.99) WRITE (TOUT,160)         P 555
      IF (ROUT(2).LT.1.E-3.OR.ROUT(2).GT.9.99) GO TO 65                 P 560
      JL = IROUT(1)                                                     P 565
      VOLINJ(JL) = ROUT(2)                                              P 570
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 70   CONTINUE                                                          P 575
      WRITE (TOUT,200)                                                  P 580
      READ (TIN,140) IANS                                               P 585
      IF (IANS.EQ.2HNO) GO TO 45                                        P 590
      IF (IANS.EQ.2HYE) GO TO 65                                        P 595
      GO TO 70                                                          P 600
C     ENTER SAMPLE AREAS                                                P 605
 75   CONTINUE                                                          P 610
      WRITE (TOUT,240)                                                  P 615
      WRITE (TOUT,150)                                                  P 620
      NOINJ = ISAMINJ                                                   P 625
      IF (SHIFT.EQ.1.0) GO TO 80                                        P 630
      IF (FORM.EQ.2.0) CALL ARBIN                                       P 635
      IF (FORM.NE.2.0) CALL ARAIN                                       P 640
      ENTRY SAMIN2                                                      P 645
      IF (SHIFT.EQ.1.0) ISAMINJ = NOINJ                                 P 650
 80   CONTINUE                                                          P 655
      DO 85 I=1,ISAMINJ                                                 P 660
           DO 85 J=1,NOCLU                                              P 665
                SAMAR(I,J) = AREA(I,J)                                  P 670
 85   CONTINUE                                                          P 675
C                                                                       P 680
      IF (SHIFT.EQ.1.0) GO TO 115                                       P 685
 90   CONTINUE                                                          P 690
      WRITE (TOUT,195) LBL7                                             P 695
      CALL SAMLBL                                                       P 700
      WRITE (TOUT,130)                                                  P 705
      WRITE (TOUT,205) (I,I=1,5)                                        P 710
      DO 95 J=1,NOCLU                                                   P 715
           WRITE (TOUT,215) J,(SAMAR(I,J),I=1,ISAMINJ)                  P 720
 95   CONTINUE                                                          P 725
 100  CONTINUE                                                          P 730
      CALL CKCORRT (LBL3,JANS)                                          P 735
      IF (JANS) 105,125,110                                             P 740
 105  CONTINUE                                                          P 745
      CALL CKOUT (LBL7,JANS)                                            P 750
      IF (JANS) 115,125,90                                              P 755
C                                                                       P 760
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  110  CONTINUE                                                          P 765
       CALL ACRIN                                                        P 770
       GO TO 100                                                         P 775
C                                                                        P 780
  115  CONTINUE                                                          P 785
       CALL CLCAL                                                        P 790
       CALL CHCAL                                                        P 795
       SHIFT = 0.0                                                       P 800
       IF (JUMP) 120,125,5                                               P 805
  120  CONTINUE                                                          P 810
C      FORMATS                                                           P 815
       WRITE (TOUT,275)                                                  P 820
  125  CONTINUE                                                          P 825
       WRITE (TOUT,255)                                                  P 830
C                                                                        P 835
       RETURN                                                            P 840
C                                                                        P 845
C                                                                        P 850
  130  FORMAT (T5,*CL=CLUSTER NUMBER*)                                   P 855
  135  FORMAT (8A10)                                                     P 860
  140  FORMAT (A2)                                                       P 865
  145  FORMAT (A5)                                                       P 870
  150  FORMAT (T5,*ENTER ONLY INTEGERS FOR AREAS, MIN=1,MAX=999999 vvv*) P 875
  155  FORMAT (T5,*ERROR IN FIELD 1*)                                    P 880
  160  FORMAT (T5,*ERROR IN FIELD 2*)                                    P 885
  165  FORMAT (T5,*ERROR IN FIELD 3*)                                    P 890
  170  FORMAT (T5,*ERROR IN FIELD  4*)                                   P 895
  175  FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGEv*)          P 900
  180  FORMAT (/T5,*NO*,T12,*INJ VOL*,T24,*CONC*,T34,*AREA*,T42,*RDDE*)  P 905
  185  FORMAT (T5,I2,T12,F5.2,T22,E10.4,T34,F6.0,T42,E10.4)              P 910
  190  FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                      P 915
  195  FORMAT (/T15,A10,* DATA TABLE:*)                                  P 920
  200  FORMAT (/T5,*ANY (MORE) CORRECTIONS↓ ENTER YES OR NO:*)           P 925
  205  FORMAT (T5,*CL*,T9,7(*AREA *,I1,2X))                              P 930
  210  FORMAT (T5,* REENTER WHOLE LINE OF DATA...*/T5*=*)                P 935
  215  FORMAT (T5,I2,T9,7(F6.0,2X))                                      P 940
  220  FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     P 945
      $*PERSON:*,A4)                                                     P 950
```

```
225  FORMAT (//T5,*ENTER SAMPLE LABEL(50 CHAR MAX):*)                    P 955
230  FORMAT (T5,*ENTER NORMALIZING UNITS(10 CHAR MAX):*)                 P 960
235  FORMAT (T5,*ENTER CORRESPONDING INJ VOLS(UL):*)                     P 965
240  FORMAT (T5,*ENTER AREAS FOR EACH CLUSTER:*)                         P 970
245  FORMAT (T5,*CHARACTERS ACCEPTED=*,6A10)                             P 975
250  FORMAT (T5,*ENTER 5 CHARACTER ID:*)                                 P 980
255  FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                      P 985
260  FORMAT (/T5,*DATA ACCEPTED:*,T20,*TYPE*,T25,*NO  NJ*,T35,           P 990
    $*NORM FAC*,T47,*FIN VOL*)                                           P 995
265  FORMAT (T20,I2,T25,I4,T35,E10.4,T47,E10.4)                          P1000
270  FORMAT (/T5,*ENTER: TYPE, NO INJ, NORM FAC, FIN VOL(ML):*,/T5,*=*)  P1005
275  FORMAT (//T10,*vvvvvv ERROR IN JMPP,JMPP LT 0*)                     P1010
280  FORMAT (T5,*VALUES ACCEPTED:*,6(F5.2,2X))                           P1015
     END                                                                 P1020-
```

```
      SUBROUTINE CLCAL
      DIMENSION IROUT(10)
      COMMON /SET1/ RIN(8),ROUT(10)
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
      EQUIVALENCE (IROUT,ROUT)
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)
      COMMON /SET5/ DDECON(50),RDDE(50)
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)
      COMMON /SET8/ FRACC(20),FRACM(20)
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)
      COMMON /SET10/ CMI(8,5),CSCON(8,5)
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL
      COMMON /SET12/ ANORM,SAMUNIT
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT
      COMMON /SET16/ CHL(20),ISAMINJ
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/
      INTEGER CHL
C     CALCULATE MI,FI,CI FOR SAMPLES- UNGROUPED
      DO 10 J=1,NOCLU
           SRM(J) = 0.0
           SRRM(J) = 0.0
           SRMPT(J) = 0.0
           SR(J) = 0.
           SRR(J) = 0.0
           SRPT(J) = 0.0
           DO 5 I=1,ISAMINJ
                SAMI(I,J) = (SAMAR(I,J)/RAVG(J))*(1000./VOLINJ(I))
                SRM(J) = SRM(J)+SAMI(I,J)
```

```
                SRRM(J) = SRRM(J)+SAMI(I,J)**2                          Q 195
                SCON(I,J) = (SAMI(I,J)/ANORM)*FINVOL                    Q 200
                SR(J) = SR(J)+SCON(I,J)                                 Q 205
                SRR(J) = SRR(J)+SCON(I,J)**2                            Q 210
                IF (SAMAR(I,J).LT.2.) GO TO 5                           Q 215
                SRPT(J) = SRPT(J)+1.0                                   Q 220
                SRMPT(J) = SRMPT(J)+1.0                                 Q 225
 5          CONTINUE                                                   Q 230
 10     CONTINUE                                                       Q 235
        SAMCT = 0.0                                                     Q 240
        SAMMT = 0.0                                                     Q 245
        DO 15 J=1,NOCLU                                                 Q 250
             SAMCT = SAMCT+SR(J)/SRPT(J)                                Q 255
             SAMMT = SAMMT+SRM(J)/SRMPT(J)                              Q 260
 15     CONTINUE                                                       Q 265
        FTM = 0.0                                                       Q 270
        FTC = 0.0                                                       Q 275
        DO 20 J=1,NOCLU                                                 Q 280
             FRACM(J) = (SRM(J)/SRMPT(J))/SAMMT                         Q 285
             FRACC(J) = (SR(J)/SRPT(J))/SAMCT                           Q 290
             FTM = FTM+FRACM(J)                                         Q 295
             FTC = FTC+FRACC(J)                                         Q 300
 20     CONTINUE                                                       Q 305
C       OUTPUT THE MI,CI AND AVERAGES PER CLUSTER                       Q 310
        IF (TBLMI) 35,35,25                                             Q 315
C                                                                       Q 320
 25     CONTINUE                                                       Q 325
        WRITE (TOUT,75) LBL10                                           Q 330
        CALL SAMLBL                                                     Q 335
        WRITE (TOUT,110)                                                Q 340
        WRITE (TOUT,135)                                                Q 345
        WRITE (TOUT,80) (I,I=1,5)                                       Q 350
        DO 30 J=1,NOCLU                                                 Q 355
             WRITE (TOUT,85) J,SRM(J),SRRM(J),(SAMI(I,J),I=1,ISAMINJ)   Q 360
 30     CONTINUE                                                       Q 365
 35     CONTINUE                                                       Q 370
        IF (TBLCI) 50,50,40                                             Q 375
C                                                                       Q 380
```

```
40    CONTINUE                                                          Q 385
      WRITE (TOUT,75) LBL5                                              Q 390
      CALL SAMLBL                                                       Q 395
      WRITE (TOUT,105) SAMUNIT                                          Q 400
      WRITE (TOUT,135)                                                  Q 405
      WRITE (TOUT,80) (I,I=1,5)                                         Q 410
      DO 45 J=1,NOCLU                                                   Q 415
           WRITE (TOUT,85) J,SR(J),SRR(J),(SCON(I,J),I=1,ISAMINJ)       Q 420
45    CONTINUE                                                          Q 425
50    CONTINUE                                                          Q 430
      WRITE (TOUT,75) LBL5                                              Q 435
      CALL SAMLBL                                                       Q 440
      WRITE (TOUT,105) SAMUNIT                                          Q 445
      WRITE (TOUT,90)                                                   Q 450
      WRITE (TOUT,135)                                                  Q 455
      TMSD = 0.0                                                        Q 460
      TCSD = 0.0                                                        Q 465
      DO 65 J=1,NOCLU                                                   Q 470
           AVGC = 0.0                                                   Q 475
           AVGM = 0.0                                                   Q 480
           IF (SRPT(J).GT.0.0) AVGC = SR(J)/SRPT(J)                     Q 485
           IF (SRMPT(J).GT.0.0) AVGM = SRM(J)/SRMPT(J)                  Q 490
           STDM = 0.0                                                   Q 495
           IF (SRMPT(J).LT.3.) GO TO 55                                 Q 500
           STDM = SQRT((1./(SRMPT(J)-1.))*(SRRM(J)-(SRM(J)**2)/SRMPT(J))  Q 505
     $     )                                                            Q 510
           TMSD = TMSD+STDM**2                                          Q 515
55         CONTINUE                                                     Q 520
           STDC = 0.0                                                   Q 525
           IF (SRPT(J).LT.3) GO TO 60                                   Q 530
           STDC = SQRT((1./(SRPT(J)-1.))*(SRR(J)-(SR(J)**2)/SRPT(J)))   Q 535
           TCSD = TCSD+STDC**2                                          Q 540
60         CONTINUE                                                     Q 545
           JY = CHL(J)                                                  Q 550
           CHLORD = FLOAT(JY)                                           Q 555
           WRITE (TOUT,95) J,AVGM,STDM,AVGC,STDC,FRACC(J),FRACM(J),     Q 560
     $     CHLORD                                                       Q 565
65    CONTINUE                                                          Q 570
```

```
      A = SQRT(TMSD)                                                    Q 575
      B = SQRT(TCSD)                                                    Q 580
      WRITE (TOUT,100) SAMMT,A,SAMCT,B,FTC,FTM                          Q 585
      JW = 1                                                            Q 590
      IEND = 21                                                         Q 595
      WRITE (SPA,115) IDCHAR,JDATE,IYR,MON,IDA,IDPER,JW,IEND,LBL14,     Q 600
     $SAMNAME,LBL12,ANORM,LBL13,SAMUNIT                                 Q 605
      DO 70 JW=1,20                                                     Q 610
           AVGM = SRM(JW)/SRMPT(JW)                                     Q 615
           AVGC = SR(JW)/SRPT(JW)                                       Q 620
           JV = JW+1                                                    Q 625
           WRITE (SPA,120) IDCHAR,JDATE,IYR,MON,IDA,IDPER,JV,IEND,AVGM, Q 630
     $     SRM(JW),SRRM(JW),SRMPT(JW),AVGC,SR(JW),SRR(JW),SRPT(JW),CHL  Q 635
     $     (JW)                                                         Q 640
 70   CONTINUE                                                          Q 645
      WRITE (TOUT,125)                                                  Q 650
C     FORMATS                                                           Q 655
      RETURN                                                            Q 660
      WRITE (TOUT,130)                                                  Q 665
C                                                                       Q 670
      RETURN                                                            Q 675
C                                                                       Q 680
C                                                                       Q 685
 75   FORMAT (/T15,A10,* DATA TABLE:*)                                  Q 690
 80   FORMAT (T5,*CL*,T8,*SR*,T18,*SRR*,T28,5(2X,*INJ *,I1,3X))         Q 695
 85   FORMAT (T5,I2,T8,E9.3,T18,E9.3,T28,5(E9.3,1X))                    Q 700
 90   FORMAT (T5,*CL*,T8,*AVG MI*,T18,*STDDEV MI*,T28,*AVG CI*,T38,     Q 705
     $*STDDEV CI*,T48,*FRAC C*,T58,*FRAC M*,T68,*CHLORINES*)            Q 710
 95   FORMAT (T5,I2,T8,7(E9.3,1X))                                      Q 715
 100  FORMAT (/T5,*TT*,T8,7(E9.3,1X))                                   Q 720
 105  FORMAT (T5,*CONC IS GM NCB PER *,A10)                             Q 725
 110  FORMAT (T5,*MI TABLE IS GRAM(S) NCB EXTRACTED*)                   Q 730
 115  FORMAT (T2,A5,I3,3I2,A3,2I2,A4,5A10,A4,E10.4,A4,A10)              Q 735
 120  FORMAT (T2,A5,I3,3I2,A3,2I2,8E10.4,I2)                            Q 740
 125  FORMAT (T5,*MESSAGE...FINAL DATA TABLE IS WRITTEN   */T5,         Q 745
     $*TEMPERORY FILE SPAREA....*)                                      Q 750
 130  FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                    Q 755
 135  FORMAT (T5,*CL=CLUSTER NUMBER*)                                   Q 760
```

END

Q 765-

D48

```
      SUBROUTINE TEND                                                   R   5
      DIMENSION IROUT(10)                                               R  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     R  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   R  20
      EQUIVALENCE (IROUT,ROUT)                                          R  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           R  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              R  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  R  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         R  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 R  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     R  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 R  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 R  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             R  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                R  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  R  80
      COMMON /SET12/ ANORM,SAMUNIT                                      R  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       R  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       R  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      R 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    R 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        R 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ R 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        R 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               R 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              R 130
      INTEGER CHL                                                       R 135
      WRITE (TOUT,5) IDATE,MON,IDA,IYR,JDATE,IDPER                      R 140
      CALL DISCON (15)                                                  R 145
      CALL DISCON (16)                                                  R 150
      RETURN                                                            R 155
C                                                                       R 160
C                                                                       R 165
    5 FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     R 170
     $*PERSON:*,A4)                                                     R 175
      END                                                               R 180-
```

```
      SUBROUTINE JDATECN(IDA,MON,IYR,JDATE)                             S   5
      DIMENSION KSUM(12)                                                S  10
      DATA KSUM/0,31,59,90,120,151,181,212,243,273,304,334/             S  15
      ENTRY JULDATE                                                     S  20
      JSUM = 0                                                          S  25
      LEAP = 1                                                          S  30
      Y = FLOAT(IYR)                                                    S  35
      A = Y/4.0                                                         S  40
      IA = IFIX(A)                                                      S  45
      B = FLOAT(IA)                                                     S  50
      REM = A-B                                                         S  55
      IF (MON.GT.0) JSUM = 0                                            S  60
      IF (MON.GT.1) JSUM = 31                                           S  65
      IF (MON.GT.2) JSUM = 59                                           S  70
      IF (MON.GT.3) JSUM = 90                                           S  75
      IF (MON.GT.4) JSUM = 120                                          S  80
      IF (MON.GT.5) JSUM = 151                                          S  85
      IF (MON.GT.6) JSUM = 181                                          S  90
      IF (MON.GT.7) JSUM = 212                                          S  95
      IF (MON.GT.8) JSUM = 243                                          S 100
      IF (MON.GT.9) JSUM = 273                                          S 105
      IF (MON.GT.10) JSUM = 304                                         S 110
      IF (MON.GT.11) JSUM = 334                                         S 115
      IF (REM.LT.1.E-25.AND.MON.LT.2) LEAP = 0                          S 120
      IF (REM.GT.0.0) LEAP = 0                                          S 125
      JDATE = JSUM+IDA+LEAP                                             S 130
      RETURN                                                            S 135
      ENTRY DATEJUL                                                     S 140
      MON = 0                                                           S 145
      IDA = 0                                                           S 150
      LEAP = 1                                                          S 155
      X = FLOAT(IYR)                                                    S 160
      C = X/4.0                                                         S 165
      IC = IFIX(C)                                                      S 170
      Z = FLOAT(IC)                                                     S 175
      REM = C-Z                                                         S 180
      IF (JDATE.GT.0) MON = 1                                           S 185
      IF (JDATE.GT.31) MON = 2                                          S 190
```

```
      IF (JDATE.GT.59) MON = 3                                          S 195
      IF (JDATE.GT.90) MON = 4                                          S 200
      IF (JDATE.GT.120) MON = 5                                         S 205
      IF (JDATE.GT.151) MON = 6                                         S 210
      IF (JDATE.GT.181) MON = 7                                         S 215
      IF (JDATE.GT.212) MON = 8                                         S 220
      IF (JDATE.GT.243) MON = 9                                         S 225
      IF (JDATE.GT.273) MON = 10                                        S 230
      IF (JDATE.GT.304) MON = 11                                        S 235
      IF (JDATE.GT.334) MON = 12                                        S 240
      IF (REM.LT.1.E-25.AND.MON.LT.2) LEAP = 0                          S 245
      IF (REM.GT.0.0) LEAP = 0                                          S 250
      IDA = JDATE-KSUM(MON)-LEAP                                        S 255
      RETURN                                                            S 260
      END                                                               S 265-
```

```
      SUBROUTINE CHECK(LBL,JANS)                                        T   5
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,IN,OUT                           T  10
      INTEGER TIN,TOUT,SPA,SPB,IN,OUT                                   T  15
      ENTRY CKCORRT                                                     T  20
    5 CONTINUE                                                          T  25
      WRITE (TOUT,45)                                                   T  30
      READ (TIN,35) IANS                                                T  35
      IF (IANS.EQ.2HNO) GO TO 10                                        T  40
      IF (IANS.EQ.2HYE) GO TO 15                                        T  45
      GO TO 5                                                           T  50
C                                                                       T  55
   10 JANS = -1                                                         T  60
      RETURN                                                            T  65
   15 JANS = 1                                                          T  70
      RETURN                                                            T  75
      ENTRY CKOUT                                                       T  80
   20 CONTINUE                                                          T  85
      WRITE (TOUT,40) LBL                                               T  90
      READ (TIN,35) IANS                                                T  95
      IF (IANS.EQ.2HNO) GO TO 25                                        T 100
      IF (IANS.EQ.2HYE) GO TO 30                                        T 105
      GO TO 20                                                          T 110
C                                                                       T 115
   25 JANS = -1                                                         T 120
      RETURN                                                            T 125
   30 JANS = 1                                                          T 130
      RETURN                                                            T 135
C                                                                       T 140
C                                                                       T 145
C                                                                       T 150
   35 FORMAT (A2)                                                       T 155
   40 FORMAT (T5,*DO YOU WANT TO OUTPUT *,A10,* DATA TBL(YES/NO)↓*)     T 160
   45 FORMAT (/T5,*ANY (MORE) CORRECTIONS↓ ENTER YES OR NO:*)           T 165
      END                                                               T 170-
```

```
      SUBROUTINE SAMLBL                                                 U   5
      DIMENSION IROUT(10)                                               U  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     U  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   U  20
      EQUIVALENCE (IROUT,ROUT)                                          U  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           U  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6).                             U  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STOINJ(8)                  U  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         U  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 U  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     U  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 U  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 U  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             U  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                U  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  U  80
      COMMON /SET12/ ANORM,SAMUNIT                                      U  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       U  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       U  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      U 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    U 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        U 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ U 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        U 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               U 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              U 130
      INTEGER CHL                                                       U 135
      WRITE (TOUT,5) IDATE,MON,IDA,IYR,JDATE,IDPER                      U 140
      WRITE (TOUT,10) SAMNAME                                           U 145
      WRITE (TOUT,25) IDCHAR,ITYPE                                      U 150
      WRITE (TOUT,15) ANORM,SAMUNIT                                     U 155
      WRITE (TOUT,20) FINVOL                                            U 160
      RETURN                                                            U 165
C                                                                       U 170
C                                                                       U 175
C                                                                       U 180
    5 FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     U 185
     $*PERSON:*,A4)                                                     U 190
```

```
10    FORMAT (T5,*SAMPLE LABEL=*,5A10)                                    U 195
15    FORMAT (T5,*NORMALIZING FACTOR:*,E10.4,T40,*WITH UNITS *,A10)       U 200
20    FORMAT (T5,*FINAL VOL(ML):*,E10.4)                                  U 205
25    FORMAT (T5,*SAMPLE ID=*,A5,5X,*SAMPLE TYPE=*,I2)                    U 210
      END                                                                 U 215-
```

```
      SUBROUTINE FISET(CHL,JMPP)
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,IN,OUT
      INTEGER TIN,TOUT,SPA,SPB,IN,OUT
      INTEGER CHL(20),TAC(15),TBC(16)
      DIMENSION TA(15), TB(16)
      DATA TA/.064,.1032,.1043,.0834,.0637,.0971,.0831,.0902,.0650,.0435
     $,.0377,.0720,.0233,.0322,.0204/
      DATA TB/.064,.1032,.1043,.0834,.0637,.0971,.0831,.0318,.0584,.0650
     $,.0435,.0377,.0720,.0233,.0322,.0204/
      DATA TAC/2,3,3,4,4,4,5,5,5,6,5,6,7,7,7/
      DATA TBC/2,3,3,4,4,4,5,5,5,5,6,5,6,7,7,7/
      JMPP = 0
    5 CONTINUE
      WRITE (TOUT,50)
      READ (TIN,45) IANS
      IF (IANS.EQ.2HYE) GO TO 15
      IF (IANS.EQ.2HNO) GO TO 10
      GO TO 5
C
   10 CONTINUE
      JMPP = 0
      RETURN
   15 CONTINUE
      WRITE (TOUT,55)
      READ (TIN,45) IANS
      IF (IANS.EQ.2HYE) GO TO 20
      IF (IANS.EQ.2HNO) GO TO 30
      GO TO 15
C
   20 CONTINUE
      DO 25 I=1,15
          FI(I) = TA(I)
          CHL(I) = TAC(I)
   25 CONTINUE
      NOCLU = 15
      JMPP = 1
      RETURN
```

```
 30   CONTINUE                                                          V 195
      WRITE (TOUT,60)                                                   V 200
      READ (TIN,45) IANS                                                V 205
      IF (IANS.EQ.2HYE) GO TO 35                                        V 210
      IF (IANS.EQ.2HNO) GO TO 5                                         V 215
      GO TO 30                                                          V 220
C                                                                       V 225
 35   CONTINUE                                                          V 230
      DO 40 I=1,16                                                      V 235
           FI(I) = TB(I)                                                V 240
           CHL(I) = TBC(I)                                              V 245
 40   CONTINUE                                                          V 250
      JMPP = 1                                                          V 255
      NOCLU = 16                                                        V 260
      RETURN                                                            V 265
C                                                                       V 270
C                                                                       V 275
C                                                                       V 280
 45   FORMAT (A2)                                                       V 285
 50   FORMAT (/T5,*DO YOU WANT TO USE PRESET FI TABLES(YES/NO)↓*)       V 290
 55   FORMAT (/T5,*DO YOU WANT TO USE 15 CLUSTER FI TABLE(YES/NO)↓*)    V 295
 60   FORMAT (/T5,*DO YOU WANT TO USE 16 CLUSTER FI TABLE(YES/NO)↓*)    V 300
      END                                                               V 305-
```

```
      SUBROUTINE ARBIN                                                  W   5
      DIMENSION IROUT(10)                                               W  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     W  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   W  20
      EQUIVALENCE (IROUT,ROUT)                                          W  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           W  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              W  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  W  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         W  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 W  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     W  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 W  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 W  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             W  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                W  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  W  80
      COMMON /SET12/ ANORM,SAMUNIT                                      W  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       W  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       W  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      W 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    W 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        W 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ W 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        W 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               W 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              W 130
      INTEGER CHL                                                       W 135
5     CONTINUE                                                          W 140
      WRITE (TOUT,50)                                                   W 145
      I = 0                                                             W 150
10    CONTINUE                                                          W 155
      DO 25 J=1,NOCLU                                                   W 160
15        CONTINUE                                                      W 165
          WRITE (TOUT,35) I,J                                           W 170
          READ (TIN,30) RIN                                             W 175
          IF (RIN(1).EQ.10HSSSSSSSSSS) GO TO 5                          W 180
          IF (RIN(1).EQ.10HXXXXXXXXXX) GO TO 10                         W 185
          NELM = KNVRT(RIN,1,80,ROUT,10)                                W 190
```

```
          IF (NELM.NE.NOINJ) WRITE (TOUT,45)                                W 195
          IF (NELM.NE.NOINJ) GO TO 15                                       W 200
          DO 20 K=1,NOINJ                                                   W 205
               AREA(K,J) = FLOAT(IROUT(K))                                  W 210
               IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) WRITE (TOUT,40)     W 215
               IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) GO TO 15            W 220
 20       CONTINUE                                                          W 225
 25   CONTINUE                                                              W 230
C     FORMATS                                                               W 235
C                                                                           W 240
      RETURN                                                                W 245
C                                                                           W 250
C                                                                           W 255
 30   FORMAT (8A10)                                                         W 260
 35   FORMAT (T5,*ENTER INJ NO *,I2,*,CLUSTER NO *,I2,*:*)                  W 265
 40   FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)               W 270
 45   FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                          W 275
 50   FORMAT (T5,*ENTER PER CLUSTER:AREA-INJ 1,A-INJ 2,A-INJ 3,...*)        W 280
      END                                                                   W 285-
```

```
      SUBROUTINE ARDIN(NINJ,NSTRT,NSTOP,SAREA)                          X   5
      DIMENSION IROUT(10)                                               X  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     X  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   X  20
      EQUIVALENCE (IROUT,ROUT)                                          X  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           X  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              X  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  X  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         X  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 X  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     X  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 X  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 X  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             X  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                X  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  X  80
      COMMON /SET12/ ANORM,SAMUNIT                                      X  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       X  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       X  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      X 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    X 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        X 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ X 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        X 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               X 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              X 130
      INTEGER CHL                                                       X 135
    5 CONTINUE                                                          X 140
      WRITE (TOUT,50)                                                   X 145
      I = 0                                                             X 150
   10 CONTINUE                                                          X 155
      DO 25 J=NSTRT,NSTOP                                               X 160
   15     CONTINUE                                                      X 165
          WRITE (TOUT,35) I,J                                           X 170
          READ (TIN,30) RIN                                             X 175
          IF (RIN(1).EQ.10HSSSSSSSSSSS) GO TO 5                         X 180
          IF (RIN(1).EQ.10HXXXXXXXXXXX) GO TO 10                        X 185
          NELM = KNVRT(RIN,1,80,ROUT,10)                                X 190
```

```
            IF (NELM.NE.NOINJ) WRITE (TOUT,45)                                X 195
            IF (NELM.NE.NOINJ) GO TO 15                                       X 200
            DO 20 K=1,NOINJ                                                   X 205
                 AREA(K,J) = FLOAT(IROUT(K))                                  X 210
                 IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) WRITE (TOUT,40)     X 215
                 IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) GO TO 15            X 220
 20          CONTINUE                                                         X 225
 25     CONTINUE                                                              X 230
C       FORMATS                                                               X 235
C                                                                             X 240
        RETURN                                                                X 245
C                                                                             X 250
C                                                                             X 255
 30     FORMAT (8A10)                                                         X 260
 35     FORMAT (T5,*ENTER INJ NO *,I2,*,CLUSTER NO *,I2,*:*)                  X 265
 40     FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)               X 270
 45     FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                          X 275
 50     FORMAT (T5,*ENTER PER CLUSTER:AREA-INJ 1,A-INJ 2,A-INJ 3,...*)        X 280
        END                                                                   X 285-
```

```
      SUBROUTINE RISET                                                  Y   5
      DIMENSION IROUT(10)                                               Y  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     Y  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   Y  20
      EQUIVALENCE (IROUT,ROUT)                                          Y  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           Y  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              Y  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  Y  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         Y  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 Y  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     Y  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 Y  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 Y  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             Y  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                Y  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  Y  80
      COMMON /SET12/ ANORM,SAMUNIT                                      Y  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       Y  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       Y  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      Y 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    Y 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        Y 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ Y 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        Y 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               Y 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              Y 130
      INTEGER CHL                                                       Y 135
    5 CONTINUE                                                          Y 140
      WRITE (TOUT,85)                                                   Y 145
      READ (TIN,80) RIN                                                 Y 150
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     Y 155
      IF (NELM.GT.1) WRITE (TOUT,110)                                   Y 160
      IF (NELM.GT.1) GO TO 5                                            Y 165
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.20) WRITE (TOUT,105)             Y 170
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.20) GO TO 5                      Y 175
      NOCLU = IROUT(1)                                                  Y 180
      WRITE (TOUT,135) NOCLU                                            Y 185
      CALL CKCORRT (LBL3,JANS)                                          Y 190
```

```
      IF (JANS) 10,70,5                                                 Y 195
 10   CONTINUE                                                          Y 200
      WRITE (TOUT,170)                                                  Y 205
      READ (TIN,80) RIN                                                 Y 210
      NELM = KNVRT(RIN,1,80,ROUT,1)                                     Y 215
      IEX = IROUT(1)                                                    Y 220
      IF (IEX.GT.50.OR.IEX.LT.-3) GO TO 10                              Y 225
      FACTOR = 10.**IEX                                                 Y 230
C     BEGIN FASTCAL PART 2                                              Y 235
      WRITE (TOUT,150)                                                  Y 240
      DO 20 I=1,NOCLU                                                   Y 245
 15        CONTINUE                                                     Y 250
           WRITE (TOUT,155) I                                           Y 255
           READ (TIN,80) RIN                                            Y 260
           IF (RIN(1).EQ.10HSSSSSSSSSS.OR.RIN(1).EQ.10HXXXXXXXXXX)      Y 265
     $      GO TO 10                                                    Y 270
           NELM = KNVRT(RIN,1,80,ROUT,5)                                Y 275
           IF (NELM.NE.2) WRITE (TOUT,110)                              Y 280
           IF (NELM.NE.2) GO TO 15                                      Y 285
           IF (ROUT(1).LT.(1.E-3).OR.ROUT(1).GT.(1.E50)) WRITE (TOUT,90) Y 290
           IF (ROUT(1).LT.(1.E-3).OR.ROUT(1).GT.(1.E50)) GO TO 15       Y 295
           IF (IROUT(2).LT.(2).OR.IROUT(2).GT.(7)) WRITE (TOUT,95)      Y 300
           IF (IROUT(2).LT.(2).OR.IROUT(2).GT.(7)) GO TO 15             Y 305
           RAVG(I) = ROUT(1)*FACTOR                                     Y 310
           CHL(I) = IROUT(2)                                            Y 315
 20   CONTINUE                                                          Y 320
      GO TO 30                                                          Y 325
C                                                                       Y 330
 25   CONTINUE                                                          Y 335
      CALL CKOUT (LBL9,JANS)                                            Y 340
      IF (JANS) 50,70,30                                                Y 345
 30   CONTINUE                                                          Y 350
      WRITE (TOUT,115) LBL9                                             Y 355
      WRITE (TOUT,125) IDATE,MON,IDA,IYR,JDATE,IDPER                    Y 360
      WRITE (TOUT,160)                                                  Y 365
      DO 35 I=1,NOCLU                                                   Y 370
           WRITE (TOUT,140) I,RAVG(I),CHL(I)                            Y 375
 35   CONTINUE                                                          Y 380
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 40   CONTINUE                                                          Y 385
      CALL CKCORRT (LBL9,JANS)                                          Y 390
      IF (JANS) 25,70,45                                                Y 395
 45   CONTINUE                                                          Y 400
      WRITE (TOUT,120)                                                  Y 405
      READ (TIN,80) RIN                                                 Y 410
      NELM = KNVRT(RIN,1,80,ROUT,5)                                     Y 415
      IF (NELM.NE.3) WRITE (TOUT,110)                                   Y 420
      IF (NELM.NE.3) GO TO 45                                           Y 425
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) WRITE (TOUT,90)           Y 430
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) GO TO 45                  Y 435
      IF (ROUT(2).LT.(1.E-3).OR.ROUT(2).GT.(1.E50)) WRITE (TOUT,95)     Y 440
      IF (ROUT(2).LT.(1.E-3).OR.ROUT(2).GT.(1.E50)) GO TO 45            Y 445
      IF (IROUT(3).LT.1.OR.IROUT(3).GT.9) WRITE (TOUT,100)              Y 450
      IF (IROUT(3).LT.1.OR.IROUT(3).GT.9) GO TO 45                      Y 455
      JA = IROUT(1)                                                     Y 460
      RAVG(JA) = ROUT(2)                                                Y 465
      CHL(JA) = IROUT(3)                                                Y 470
      GO TO 40                                                          Y 475
C                                                                       Y 480
 50   CONTINUE                                                          Y 485
      WRITE (TOUT,165)                                                  Y 490
      READ (TIN,80) RIN                                                 Y 495
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     Y 500
      IF (NELM.GT.1) WRITE (TOUT,110)                                   Y 505
      IF (NELM.GT.1) GO TO 50                                           Y 510
      IF (ROUT(1).LT.(1.E-3).OR.ROUT(1).GT.(1.E50)) WRITE (TOUT,105)    Y 515
      IF (ROUT(1).LT.(1.E-3).OR.ROUT(1).GT.(1.E50)) GO TO 50            Y 520
      DDEAVG = ROUT(1)                                                  Y 525
      WRITE (TOUT,130) DDEAVG                                           Y 530
      CALL CKCORRT (LBL4,JANS)                                          Y 535
      IF (JANS) 55,70,50                                                Y 540
 55   CONTINUE                                                          Y 545
      DO 60 I=1,NOCLU                                                   Y 550
           SI(I) = RAVG(I)/DDEAVG                                       Y 555
 60   CONTINUE                                                          Y 560
      WRITE (TOUT,115) LBL17                                            Y 565
      WRITE (TOUT,125) IDATE,MON,IDA,IYR,JDATE,IDPER                    Y 570
```

```
      WRITE (TOUT,145)                                                  Y 575
      DO 65 J=1,NOCLU                                                   Y 580
           WRITE (TOUT,140) J,SI(J)                                     Y 585
 65   CONTINUE                                                          Y 590
      RETURN                                                            Y 595
 70   CONTINUE                                                          Y 600
      WRITE (TOUT,75)                                                   Y 605
      CALL EXIT                                                         Y 610
C                                                                       Y 615
C                                                                       Y 620
C                                                                       Y 625
 75   FORMAT (/T5,*ERROR-JANS=ZERO IN RISET*)                           Y 630
 80   FORMAT (8A10)                                                     Y 635
 85   FORMAT (T5,*ENTER NO OF CLUSTERS(20 MAX):*)                       Y 640
 90   FORMAT (T5,*ERROR IN FIELD 1*)                                    Y 645
 95   FORMAT (T5,*ERROR IN FIELD 2*)                                    Y 650
 100  FORMAT (T5,*ERROR IN FIELD 3*)                                    Y 655
 105  FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE~*)          Y 660
 110  FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                      Y 665
 115  FORMAT (/T15,A10,* DATA TABLE:*)                                  Y 670
 120  FORMAT (T5,* REENTER WHOLE LINE OF DATA...*/T5*=*)                Y 675
 125  FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     Y 680
     $*PERSON:*,A4)                                                     Y 685
 130  FORMAT (T5,*VALUE ENTERED=*,E10.4)                                Y 690
 135  FORMAT (T5,*VALUE ENTERED=*,I10)                                  Y 695
 140  FORMAT (T5,I2,T12,E10.4,T26,I2)                                   Y 700
 145  FORMAT (T5,*CL NO*,T12,*SI*)                                      Y 705
 150  FORMAT (/T5,*ENTER RI TABLE BELOW*/T5,*RANGE:RI=1.E-3 TO 1.E50*/T5 Y 710
     $,*CHLORINE NO= 2-7*)                                              Y 715
 155  FORMAT (T5,* ENTER RI,CHLORINE NO FOR CLUSTER NO *,I2,*:*)        Y 720
 160  FORMAT (T5,*CL NO*,T12,*RI*,T26,*NO OF CHLORINES*)                Y 725
 165  FORMAT (T5,*ENTER AVG RDDE:*)                                     Y 730
 170  FORMAT (/T5,*ENTER VALUE OF EXPONET IN FORM -XX:*)                Y 735
      END                                                               Y 740-
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```
      SUBROUTINE CHCAL                                                  Z   5
      DIMENSION IROUT(10)                                               Z  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     Z  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   Z  20
      EQUIVALENCE (IROUT,ROUT)                                          Z  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           Z  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              Z  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  Z  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         Z  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 Z  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     Z  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 Z  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 Z  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             Z  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                Z  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  Z  80
      COMMON /SET12/ ANORM,SAMUNIT                                      Z  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       Z  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       Z  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      Z 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    Z 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        Z 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ Z 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        Z 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               Z 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              Z 130
      INTEGER CHL                                                       Z 135
C     GROUP ACCORDING TO NO OF CHLORINES, SUM WITH IN INJ, AVG AMONG INJ Z 140
C     CONSOLIDATE TABLES AND OUTPUT THEM                                Z 145
      DO 10 J=1,NOCLU                                                   Z 150
         DO 5 I=1,ISAMINJ                                               Z 155
            AVGM = 0.0                                                  Z 160
            AVGC = 0.0                                                  Z 165
            IF (SRPT(J).GT.0.0) AVGC = SR(J)/SRPT(J)                    Z 170
            IF (SRMPT(J).GT.0.0) AVGM = SRM(J)/SRMPT(J)                 Z 175
            IF (SAMAR(I,J).LT.2.0) SAMI(I,J) = AVGM                     Z 180
            IF (SAMAR(I,J).LT.2.0) SCON(I,J) = AVGC                     Z 185
    5    CONTINUE                                                       Z 190
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10    CONTINUE                                                          Z 195
      DO 15 J=2,7                                                       Z 200
           SRPT(J) = FLOAT(ISAMINJ)                                     Z 205
           SRMPT(J) = FLOAT(ISAMINJ)                                    Z 210
           SRM(J) = 0.0                                                 Z 215
           SRRM(J) = 0.0                                                Z 220
           SR(J) = 0.0                                                  Z 225
           SRR(J) = 0.0                                                 Z 230
15    CONTINUE                                                          Z 235
      DO 30 I=1,ISAMINJ                                                 Z 240
           DO 25 J=2,7                                                  Z 245
                CMI(J,I) = 0.0                                          Z 250
                CSCON(J,I) = 0.0                                        Z 255
                DO 20 K=1,NOCLU                                         Z 260
                     IF (CHL(K).LT.(J+1).AND.CHL(K).GT.(J-1)) CMI(J,I) = Z 265
     $                CMI(J,I)+SAMI(I,K)                                Z 270
                     IF (CHL(K).LT.(J+1).AND.CHL(K).GT.(J-1)) CSCON(J,I) Z 275
     $                = CSCON(J,I)+SCON(I,K)                            Z 280
20              CONTINUE                                                Z 285
25         CONTINUE                                                     Z 290
30    CONTINUE                                                          Z 295
      DO 40 I=2,7                                                       Z 300
           DO 35 J=1,ISAMINJ                                            Z 305
                SRM(I) = SRM(I)+CMI(I,J)                                Z 310
                SRRM(I) = SRRM(I)+CMI(I,J)**2                           Z 315
                SR(I) = SR(I)+CSCON(I,J)                                Z 320
                SRR(I) = SRR(I)+CSCON(I,J)**2                           Z 325
35         CONTINUE                                                     Z 330
40    CONTINUE                                                          Z 335
      FTC = 0.0                                                         Z 340
      FTM = 0.0                                                         Z 345
      CSAMMT = 0.0                                                      Z 350
      CSAMCT = 0.0                                                      Z 355
      DO 55 I=2,7                                                       Z 360
           G1 = 0.0                                                     Z 365
           G2 = 0.0                                                     Z 370
           IF (SRMPT(I).LT.1.) GO TO 45                                 Z 375
           G1 = SRM(I)/SRMPT(I)                                         Z 380
```

```
45        CONTINUE                                                      Z 385
          IF (SRPT(I).LT.1.) GO TO 50                                   Z 390
          G2 = SR(I)/SRPT(I)                                            Z 395
50        CONTINUE                                                      Z 400
          CSAMMT = CSAMMT+G1                                            Z 405
          CSAMCT = CSAMCT+G2                                            Z 410
55   CONTINUE                                                           Z 415
     DO 70 I=2,7                                                        Z 420
          G3 = 0.0                                                      Z 425
          G4 = 0.0                                                      Z 430
          IF (SRMPT(I).LT.1.) GO TO 60                                  Z 435
          G3 = SRM(I)/SRMPT(I)                                          Z 440
60        CONTINUE                                                      Z 445
          IF (SRPT(I).LT.1.) GO TO 65                                   Z 450
          G4 = SR(I)/SRPT(I)                                            Z 455
65        CONTINUE                                                      Z 460
          FRACM(I) = G3/CSAMMT                                          Z 465
          FRACC(I) = G4/CSAMCT                                          Z 470
          FTM = FTM+FRACM(I)                                            Z 475
          FTC = FTC+FRACC(I)                                            Z 480
70   CONTINUE                                                           Z 485
     IF (TBLMN) 85,85,75                                                Z 490
75   CONTINUE                                                           Z 495
     WRITE (TOUT,160) LBL15                                             Z 500
     CALL SAMLBL                                                        Z 505
     WRITE (TOUT,200)                                                   Z 510
     WRITE (TOUT,220)                                                   Z 515
     WRITE (TOUT,165) (I,I=1,5)                                         Z 520
     DO 80 I=2,7                                                        Z 525
          WRITE (TOUT,170) I,SRM(I),SRRM(I),(CMI(I,J),J=1,ISAMINJ)      Z 530
80   CONTINUE                                                           Z 535
85   CONTINUE                                                           Z 540
     IF (TBLCN) 100,100,90                                              Z 545
90   CONTINUE                                                           Z 550
     WRITE (TOUT,160) LBL16                                             Z 555
     CALL SAMLBL                                                        Z 560
     WRITE (TOUT,195) SAMUNIT                                           Z 565
     WRITE (TOUT,220)                                                   Z 570
```

```
      WRITE (TOUT,165) (I,I=1,5)                                        Z 575
      DO 95 I=2,7                                                       Z 580
           WRITE (TOUT,170) I,SR(I),SRR(I),(CSCON(I,J),J=1,ISAMINJ)     Z 585
 95   CONTINUE                                                          Z 590
 100  CONTINUE                                                          Z 595
      WRITE (TOUT,160) LBL16                                            Z 600
      CALL SAMLBL                                                       Z 605
      WRITE (TOUT,195) SAMUNIT                                          Z 610
      WRITE (TOUT,220)                                                  Z 615
      WRITE (TOUT,175)                                                  Z 620
      DO 115 I=2,7                                                      Z 625
           AVGC = 0.0                                                   Z 630
           AVGM = 0.0                                                   Z 635
           IF (SRPT(I).GT.0.0) AVGC = SR(I)/SRPT(I)                     Z 640
           IF (SRMPT(I).GT.0.0) AVGM = SRM(I)/SRMPT(I)                  Z 645
           STDC = 0.0                                                   Z 650
           STDM = 0.0                                                   Z 655
           IF (SRMPT(I).LT.(3.0)) GO TO 105                             Z 660
           VARM = (1./(SRMPT(I)-1.))*(SRRM(I)-(SRM(I)**2)/SRMPT(I))     Z 665
           STDM = SQRT(VARM)                                            Z 670
 105       CONTINUE                                                     Z 675
           IF (SRPT(I).LT.3.) GO TO 110                                 Z 680
           VARC = (1./(SRPT(I)-1.))*(SRR(I)-(SR(I)**2)/SRPT(I))         Z 685
           STDC = SQRT(VARC)                                            Z 690
 110       CONTINUE                                                     Z 695
           RSD(I) = STDC                                                Z 700
           CHLORD = FLOAT(I)                                            Z 705
           WRITE (TOUT,180) I,AVGM,STDM,AVGC,STDC,FRACC(I),FRACM(I),    Z 710
     $     CHLORD                                                       Z 715
 115  CONTINUE                                                          Z 720
C     WRITE FINAL DATA TABLE USING GROUPED DATA                         Z 725
C     WRITE FINAL DATA TABLE PLUS STATS ONTO FILE SPAREA                Z 730
      DO 120 JW=2,7                                                     Z 735
           CDE(JW) = SR(JW)/SRPT(JW)                                    Z 740
 120  CONTINUE                                                          Z 745
C     CALCULATION OF TOTAL PCB FROM GRPUPED DATA, ADD DOWM AVG ACROSS   Z 750
      CTM = 0.0                                                         Z 755
      CTC = 0.0                                                         Z 760
```

```
      CTMSD = 0.0                                                       Z 765
      CTCSD = 0.0                                                       Z 770
      CTMPT = 0.0                                                       Z 775
      CTCPT = 0.0                                                       Z 780
      DO 130 I=1,ISAMINJ                                                Z 785
           SRM(I) = 0.0                                                 Z 790
           SR(I) = 0.0                                                  Z 795
           DO 125 J=2,7                                                 Z 800
                SRM(I) = SRM(I)+CMI(J,I)                                Z 805
                SR(I) = SR(I)+CSCON(J,I)                                Z 810
 125       CONTINUE                                                     Z 815
 130  CONTINUE                                                          Z 820
      DO 135 I=1,ISAMINJ                                                Z 825
           CTM = CTM+SRM(I)                                             Z 830
           CTC = CTC+SR(I)                                              Z 835
           CTMSD = CTMSD+SRM(I)**2                                      Z 840
           CTCSD = CTCSD+SR(I)**2                                       Z 845
           IF (SRM(I).GT.0.0) CTMPT = CTMPT+1.0                         Z 850
           IF (SR(I).GT.0.0) CTCPT = CTCPT+1.0                          Z 855
 135  CONTINUE                                                          Z 860
      TM = 0.0                                                          Z 865
      TMSD = 0.0                                                        Z 870
      IF (CTMPT.GT.0.0) TM = CTM/CTMPT                                  Z 875
      IF (CTMPT.GT.2.0) TMSD = SQRT((1./(CTMPT-1.))*(CTMSD-(CTM**2)/    Z 880
     $CTMPT))                                                           Z 885
      TC = 0.0                                                          Z 890
      TCSD = 0.0                                                        Z 895
      IF (CTCPT.GT.0.0) TC = CTC/CTCPT                                  Z 900
      IF (CTCPT.GT.2.0) TCSD = SQRT((1./(CTCPT-1.))*(CTCSD-(CTC**2)/    Z 905
     $CTCPT))                                                           Z 910
      WRITE (TOUT,185) TM,TMSD,TC,TCSD,FTC,FTM                          Z 915
      JX = 1                                                            Z 920
      JY = 2                                                            Z 925
      WRITE (SPB,205) IDCHAR,JDATE,IYR,MON,IDA,IDPER,JX,JY,(CDE(I),I=2,7 Z 930
     $),TC                                                              Z 935
      JX = 2                                                            Z 940
      WRITE (SPD,205) IDCHAR,JDATE,IYR,MON,IDA,IDPER,JX,JY,(RSD(I),I=2,7 Z 945
     $),TCSD                                                            Z 950
```

```
      WRITE (TOUT,210)                                                  Z 955
  140 CONTINUE                                                          Z 960
      WRITE (TOUT,190)                                                  Z 965
      READ (TIN,155) IANS                                               Z 970
      IF (IANS.EQ.2HNO) GO TO 150                                       Z 975
      IF (IANS.EQ.2HYE) GO TO 145                                       Z 980
      GO TO 140                                                         Z 985
C                                                                       Z 990
  145 CONTINUE                                                          Z 995
      JUMP = 1                                                          Z1000
      RETURN                                                            Z1005
  150 CONTINUE                                                          Z1010
      JUMP = 0                                                          Z1015
      RETURN                                                            Z1020
      WRITE (TOUT,215)                                                  Z1025
C                                                                       Z1030
C                                                                       Z1035
C                                                                       Z1040
  155 FORMAT (A2)                                                       Z1045
  160 FORMAT (/T15,A10,* DATA TABLE:*)                                  Z1050
  165 FORMAT (T5,*CL*,T8,*SR*,T18,*SRR*,T28,5(2X,*INJ *,I1,3X))         Z1055
  170 FORMAT (T5,I2,T8,E9.3,T18,E9.3,T28,5(E9.3,1X))                    Z1060
  175 FORMAT (T5,*CL*,T8,*AVG MI*,T18,*STDDEV MI*,T28,*AVG CI*,T38,     Z1065
     $*STDDEV CI*,T48,*FRAC C*,T58,*FRAC M*,T68,*CHLORINES*)            Z1070
  180 FORMAT (T5,I2,T8,7(E9.3,1X))                                      Z1075
  185 FORMAT (/T5,*TT*,T8,7(E9.3,1X))                                   Z1080
  190 FORMAT (//T5,*DO YOU WANT TO CALC VALUES FOR MORE SAMPLES++++*/T5, Z1085
     $*ENTER YES OR NO:*)                                               Z1090
  195 FORMAT (T5,*CONC IS GM NCB PER *,A10)                             Z1095
  200 FORMAT (T5,*MI TABLE IS GRAM(S) NCB EXTRACTED*)                   Z1100
  205 FORMAT (T2,A5,I3,3I2,A3,2I2,8E10.4,I2)                            Z1105
  210 FORMAT (/T5,*AVG GROUP CN WRITTEN ON TEMPORARY FILE SPAREB*)      Z1110
  215 FORMAT (///T5,*ERROR IN CHECSUBR, JANS=C....*)                    Z1115
  220 FORMAT (T5,*CL=NUMBER OF CHLORINES*)                              Z1120
      END                                                               Z1125-
```

```
      SUBROUTINE ACRIN                                                  AA   5
      DIMENSION IROUT(10)                                               AA  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AA  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AA  20
      EQUIVALENCE (IROUT,ROUT)                                          AA  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AA  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AA  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AA  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AA  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AA  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AA  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AA  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AA  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AA  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AA  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AA  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AA  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AA  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AA  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AA 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AA 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AA 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AA 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AA 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AA 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AA 130
      INTEGER CHL                                                       AA 135
    5 CONTINUE                                                          AA 140
      WRITE (TOUT,30)                                                   AA 145
      READ (TIN,15) RIN                                                 AA 150
      MAX = NOINJ+1                                                     AA 155
      NELM = KNVRT(RIN,1,80,ROUT,9)                                     AA 160
      IF (NELM.NE.MAX) WRITE (TOUT,25)                                  AA 165
      IF (NELM.NE.MAX) GO TO 5                                          AA 170
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) WRITE (TOUT,20)           AA 175
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOCLU) GO TO 5                   AA 180
      DO 10 I=1,NOINJ                                                   AA 185
         IF (IROUT(I+1).GT.999999.OR.IROUT(I+1).LT.1) WRITE (TOUT,20)   AA 190
```

```
      IF (IROUT(I+1).GT.999999.OR.IROUT(I+1).LT.1) GO TO 5
      JF = IROUT(1)
      JG = I+1
      JH = IROUT(JG)
      AREA(I,JF) = FLOAT(JH)
      SAMAR(I,JF) = FLOAT(JH)
 10   CONTINUE
      RETURN
C
 15   FORMAT (8A10)
 20   FORMAT (T5,*ERROR - A VALUE IS NOT IN ACCEPTABLE RANGE,REENTER*)
 25   FORMAT (T5,*ERROR - INCORRECT NUMBER OF ENTRIES*)
 30   FORMAT (T5,* REENTER WHOLE OF DATA.....*,/T5,*=*)
      END
```

```
      SUBROUTINE FORMIN                                                 AB   5
      DIMENSION IROUT(10)                                               AB  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AB  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AB  20
      EQUIVALENCE (IROUT,ROUT)                                          AB  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AB  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AB  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AB  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AB  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AB  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AB  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AB  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AB  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AB  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AB  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AB  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AB  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AB  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AB  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AB 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AB 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AB 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AB 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AB 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AB 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AB 130
      INTEGER CHL                                                       AB 135
    5 CONTINUE                                                          AB 140
      WRITE (TOUT,20)                                                   AB 145
      READ (TIN,25) FORM                                                AB 150
      IF (FORM.LT.1.0.OR.FORM.GT.2.0) GO TO 5                           AB 155
      WRITE (TOUT,15) FORM                                              AB 160
      CALL CKCORRT (LBL3,JANS)                                          AB 165
      IF (JANS) 10,5,5                                                  AB 170
   10 CONTINUE                                                          AB 175
      RETURN                                                            AB 180
C                                                                       AB 185
   15 FORMAT (T5,*VALUE ACCEPTED=*,F3.0)                                AB 190
```

```
20   FORMAT (/T5,*ENTER AREA INPUT FORM CODE *,/T5,*ENTER 1 FOR LONG FO    AB 195
    $RM, 2 FOR SHORT FORM*,/T5*E*)                                         AB 200
25   FORMAT (F1.0)                                                         AB 205
     END                                                                   AB 210-
```

```
      SUBROUTINE TBLSET                                                 AC   5
      DIMENSION IROUT(10)                                               AC  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AC  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AC  20
      EQUIVALENCE (IROUT,ROUT)                                          AC  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AC  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AC  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AC  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AC  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AC  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AC  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AC  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AC  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AC  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AC  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AC  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AC  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AC  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AC  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AC 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AC 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AC 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AC 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AC 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AC 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AC 130
      INTEGER CHL                                                       AC 135
5     CONTINUE                                                          AC 140
      WRITE (TOUT,20)                                                   AC 145
      READ (TIN,25) RIN                                                 AC 150
      NELM = KNVRT(RIN,1,80,ROUT,5)                                     AC 155
      DO 10 I=1,4                                                       AC 160
          IF (ROUT(I).LT.-1.0.OR.ROUT(I).GT.1.0) GO TO 5                AC 165
10    CONTINUE                                                          AC 170
      TBLMI = ROUT(1)                                                   AC 175
      TBLCI = ROUT(2)                                                   AC 180
      TBLMN = ROUT(3)                                                   AC 185
      TBLCN = ROUT(4)                                                   AC 190
```

```
      WRITE (TOUT,30) TBLMI,TBLCI,TBLMN,TBLCN                           AC 195
      CALL CKCORRT (LBL3,JANS)                                          AC 200
      IF (JANS) 15,15,5                                                 AC 205
 15   CONTINUE                                                          AC 210
      RETURN                                                            AC 215
C                                                                       AC 220
 20   FORMAT (/T5,*ENTER TABLE OUTPUT CODES:-1.0 TABLE NOT LISTED,*,/T30 AC 225
     $,*1.0 TABLE IS LISTED*,/T5,*ENTER IN ORDER- TBLMI, TBLCI,TBLMN,TBL AC 230
     $CN:*)                                                             AC 235
 25   FORMAT (8A10)                                                     AC 240
 30   FORMAT (/T5,*VALUES ENTERED= *,4(F4.1,2X))                        AC 245
      END                                                               AC 250-
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```
      SUBROUTINE STDRECL                                                AD   5
      DIMENSION IROUT(10)                                               AD  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AD  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AD  20
      EQUIVALENCE (IROUT,ROUT)                                          AD  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AD  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AD  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AD  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AD  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AD  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AD  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AD  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AD  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AD  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AD  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AD  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AD  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AD  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AD  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AD 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AD 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AD 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AD 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AD 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AD 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AD 130
      INTEGER CHL                                                       AD 135
      DO 5 I=1,5                                                        AD 140
         SAMNAME(I) = STDNAM(I)                                         AD 145
    5 CONTINUE                                                          AD 150
      ENCODE (5,15,IDCHAR)                                              AD 155
      ENCODE (10,20,SAMUNIT)                                            AD 160
      ITYPE = 99                                                        AD 165
      ISAMINJ = NOINJ                                                   AD 170
      ANORM = 1.0                                                       AD 175
      FINVOL = 1.0                                                      AD 180
      SHIFT = 1.0                                                       AD 185
      DO 10 K=1,NOINJ                                                   AD 190
```

```
          VOLINJ(K) = STDINJ(K)                                         AD 195
   10   CONTINUE                                                       AD 200
        RETURN                                                         AD 205
C                                                                      AD 210
   15   FORMAT (5HSTDMX)                                               AD 215
   20   FORMAT (10H ML        )                                        AD 220
        END                                                            AD 225-
```

```
      SUBROUTINE EACHPCB                                                AE   5
      DIMENSION IROUT(10)                                               AE  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AE  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AE  20
      EQUIVALENCE (IROUT,ROUT)                                          AE  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AE  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AE  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AE  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AE  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AE  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AE  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AE  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AE  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AE  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AE  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AE  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AE  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AE  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AE  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AE 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AE 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AE 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AE 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AE 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AE 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AE 130
      INTEGER CHL                                                       AE 135
      COMMON /BL1/ RATIO(3,5,20),STDCL(3,5,20)                          AE 140
      DIMENSION NJ(5)                                                   AE 145
      INTEGER TBC(16)                                                   AE 150
      DIMENSION ITAX(10)                                                AE 155
      DATA TBC/2,3,3,4,4,4,5,5,5,5,6,5,6,7,7,7/                         AE 160
      DATA RATIO/300*0.0/                                               AE 165
      CALL RPCB (NINJ)                                                  AE 170
      NOCLU = 16                                                        AE 175
      DO 5 I=1,NOCLU                                                    AE 180
    5 CHL(I) = TBC(I)                                                   AE 185
      WRITE (TOUT,45)                                                   AE 190
```

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      WRITE (TOUT,55)                                                   AE 195
10    CONTINUE                                                          AE 200
      WRITE (TOUT,60)                                                   AE 205
      READ (TIN,75) RIN                                                 AE 210
      NELM = KNVRT(RIN,1,80,ROUT,5)                                     AE 215
      NOSTD = NELM                                                      AE 220
      IF (NELM.LT.1.OR.NELM.GT.3) WRITE (TOUT,65)                       AE 225
      IF (NELM.LT.1.OR.NELM.GT.3) GO TO 10                              AE 230
      DO 15 I=1,NOSTD                                                   AE 235
           ITAX(I) = IROUT(I)                                           AE 240
           IF (IROUT(I).LT.1.OR.IROUT(I).GT.3) WRITE (TOUT,70)          AE 245
           IF (IROUT(I).LT.1.OR.IROUT(I).GT.3) GO TO 10                 AE 250
15    CONTINUE                                                          AE 255
      WRITE (TOUT,50) (ITAX(I),I=1,NOSTD)                               AE 260
      CALL CKCORRT (LBL3,JANS)                                          AE 265
      IF (JANS) 20,20,10                                                AE 270
20    CONTINUE                                                          AE 275
      INJTT = 0                                                         AE 280
      DO 25 I=1,NOSTD                                                   AE 285
           IF (ITAX(I).EQ.1) CALL RPCB42 (NINJ)                         AE 290
           IF (ITAX(I).EQ.2) CALL RPCB54 (NINJ)                         AE 295
           IF (ITAX(I).EQ.3) CALL RPCB60 (NINJ)                         AE 300
           NJ(I) = NINJ                                                 AE 305
           INJTT = INJTT+NJ(I)                                          AE 310
25    CONTINUE                                                          AE 315
      DO 40 K=1,NOCLU                                                   AE 320
           SR(K) = 0.0                                                  AE 325
           SRR(K) = 0.0                                                 AE 330
           SRPT(K) =  .0                                                AE 335
           DO 35 I=1, JSTD                                              AE 340
                NEND = NJ(I)                                            AE 345
                DO 30 J=1,NEND                                          AE 350
                     IF (RATIO(I,J,K).LE.0.0) GO TO 30                  AE 355
                     SR(K) = SR(K)+RATIO(I,J,K)                         AE 360
                     SRR(K) = SRR(K)+RATIO(I,J,K)**2                    AE 365
                     SRPT(K) = SRPT(K)+1.0                              AE 370
30              CONTINUE                                                AE 375
35         CONTINUE                                                     AE 380
```

```
 40   CONTINUE                                                          AE 385
      RETURN                                                            AE 390
C                                                                       AE 395
C                                                                       AE 400
 45   FORMAT (/T5,*THIS OPTION REQUIRES THAT ALL THREE INDIVIDUAL PCB*,/ AE 405
     $T5,*STANDARDS BE USED. USE EACH STD ID NO  ONLY ONCE.  *,/T5,     AE 410
     $*THE NUMBER OF CLUSTERS IS SIXTEEN(16).*)                         AE 415
 50   FORMAT (T5,*VALUES ACCEPTED= *,10(I4,1X))                         AE 420
 55   FORMAT (/T5,*ENTER STANDARD ID NO(S) THAT WERE USED:*,/T7,        AE 425
     $*STD ID NO*,T25,*PCB STD*,/T11,*1*,T25,*AROCLOR 1242*,/T11,*2*,T25 AE 430
     $,*AROCLOR 1254*,/T11,*3*,T25,*AROCLOR 1260*)                      AE 435
 60   FORMAT (/T5,*ENTER ID NO(S):*)                                    AE 440
 65   FORMAT (/T5,*MAXIMUM OF 3 STDS ALLOWED,REENTER*)                  AE 445
 70   FORMAT (/T5,*ONE OF STD ID NOS IS NOT ALLOWED, REENTER DATA*)     AE 450
 75   FORMAT (8A10)                                                     AE 455
      END                                                               AE 460-
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      SUBROUTINE RPCB(NINJ)                                             AF   5
      DIMENSION IROUT(10)                                               AF  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AF  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AF  20
      EQUIVALENCE (IROUT,ROUT)                                          AF  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AF  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AF  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AF  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AF  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AF  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AF  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AF  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AF  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AF  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AF  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AF  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AF  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AF  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AF  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AF 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AF 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AF 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AF 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AF 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AF 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AF 130
      INTEGER CHL                                                       AF 135
      COMMON /GLI/ RATIO(3,5,20),STDCL(3,5,20)                          AF 140
      DIMENSION FRAC42(7), FRAC54(10), FRAC60(11)                       AF 145
      DATA FRAC42/0.1408,0.1631,0.3224,0.1077,0.1159,0.1045,0.0365/     AF 150
      DATA FRAC54/0.0942,0.0364,0.1410,0.1679,0.0843,0.0968,0.1390,0.   AF 155
     $0642,0.0699,0.0943/                                               AF 160
      DATA FRAC60/0.0320,0.0442,0.0439,0.0568,0.1027,0.1188,0.0797,0.   AF 165
     $2047,0.1198,0.1087,0.0856/                                        AF 170
      DATA A42/10HPCB A-1242/,A54/10HPCB A-1254/,A60/10HPCB A-1260/     AF 175
      NINJ = 0                                                          AF 180
      RETURN                                                            AF 185
      ENTRY RPCB42                                                      AF 190
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      WRITE (TOUT,120) A42                                              AF 195
      NDEL = 0                                                          AF 200
      NSTRT = 1                                                         AF 205
      NSTOP = 7                                                         AF 210
      IX = 1                                                            AF 215
      DO 5 I=NSTRT,NSTOP                                                AF 220
           J = I-NDEL                                                   AF 225
           FI(I) = FRAC42(J)                                            AF 230
 5    CONTINUE                                                          AF 235
      GO TO 20                                                          AF 240
C                                                                       AF 245
      ENTRY RPCB54                                                      AF 250
      WRITE (TOUT,120) A54                                              AF 255
      NDEL = 3                                                          AF 260
      NSTRT = 4                                                         AF 265
      NSTOP = 13                                                        AF 270
      IX = 2                                                            AF 275
      DO 10 I=NSTRT,NSTOP                                               AF 280
           J = I-NDEL                                                   AF 285
           FI(I) = FRAC54(J)                                            AF 290
 10   CONTINUE                                                          AF 295
      GO TO 20                                                          AF 300
C                                                                       AF 305
      ENTRY RPCB60                                                      AF 310
      WRITE (TOUT,120) A60                                              AF 315
      NDEL = 5                                                          AF 320
      NSTRT = 6                                                         AF 325
      NSTOP = 16                                                        AF 330
      IX = 3                                                            AF 335
      DO 15 I=NSTRT,NSTOP                                               AF 340
           J = I-NDEL                                                   AF 345
           FI(I) = FRAC60(J)                                            AF 350
 15   CONTINUE                                                          AF 355
 20   CONTINUE                                                          AF 360
      CALL FICK (NSTRT,NSTOP)                                           AF 365
      CALL STDLB                                                        AF 370
      NINJ = NOINJ                                                      AF 375
C      ENTER STANDARD AREAS                                             AF 380
```

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      WRITE (TOUT,85)                                                   AF 385
      WRITE (TOUT,80)                                                   AF 390
      IF (FORM.EQ.2.0) CALL ARDIN (NINJ,NSTRT,NSTOP,SAREA)              AF 395
      IF (FORM.NE.2.0) CALL ARCIN (NINJ,NSTRT,NSTOP,SAREA)              AF 400
      GO TO 30                                                          AF 405
C      CHECK AND CORRECT STANDARD AREAS                                 AF 410
 25   CONTINUE                                                          AF 415
      CALL CKOUT (LBL2,JANS)                                            AF 420
      IF (JANS) 55,50,30                                                AF 425
 30   CONTINUE                                                          AF 430
      WRITE (TOUT,90) LBL2                                              AF 435
      WRITE (TOUT,105) IDATE,MON,IDA,IYR,JDATE,IDPER                    AF 440
      WRITE (TOUT,110) LBL8,STDNAM                                      AF 445
      WRITE (TOUT,115)                                                  AF 450
      WRITE (TOUT,95) (I,I=1,7)                                         AF 455
      DO 35 I=NSTRT,NSTOP                                               AF 460
           WRITE (TOUT,100) I,(AREA(J,I),J=1,NOINJ)                     AF 465
 35   CONTINUE                                                          AF 470
 40   CONTINUE                                                          AF 475
      CALL CKCORRT (LBL3,JANS)                                          AF 480
      IF (JANS) 25,50,45                                                AF 485
 45   CONTINUE                                                          AF 490
      CALL ACRIN                                                        AF 495
      GO TO 40                                                          AF 500
C                                                                       AF 505
 50   CONTINUE                                                          AF 510
      WRITE (TOUT,75)                                                   AF 515
 55   CONTINUE                                                          AF 520
      DO 60 J=1,NOINJ                                                   AF 525
           DO 60 K=NSTRT,NSTOP                                          AF 530
                STDCL(IX,J,K) = AREA(J,K)                               AF 535
 60   CONTINUE                                                          AF 540
      DO 70 J=1,NOINJ                                                   AF 545
           TMASS = STDINJ(J)*CONC(J)*(0.001)                            AF 550
           DO 65 K=NSTRT,NSTOP                                          AF 555
                FRACMS = FI(K)*TMASS                                    AF 560
                RATIO(IX,J,K) = STDCL(IX,J,K)/FRACMS                    AF 565
 65        CONTINUE                                                    AF 570
```

```
 70   CONTINUE                                                          AF 575
      RETURN                                                            AF 580
C                                                                       AF 585
 75   FORMAT (T5,*ERROR IN CHECK,JANS=0 IN RPCB2*)                      AF 590
 80   FORMAT (T5,*ENTER ONLY INTEGERS FOR AREAS,MIN=1,MAX=999999...*)   AF 595
 85   FORMAT (T5,*ENTER STD RAW AREAS TABLE:*)                          AF 600
 90   FORMAT (/T15,A10,* DATA TABLE:*)                                  AF 605
 95   FORMAT (T5,*CL*,T9,7(*AREA *,I1,2X))                              AF 610
 100  FORMAT (T5,I2,T9,7(F6.0,2X))                                      AF 615
 105  FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,     AF 620
     $*PERSON:*,A4)                                                     AF 625
 110  FORMAT (T5,A10,* NAMES:*,5A10)                                    AF 630
 115  FORMAT (T5,*CL=CLUSTER NO*)                                       AF 635
 120  FORMAT (T5,*ENTER DATA ONLY FOR STANDARD *,A10)                   AF 640
      END                                                               AF 645-
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```
      SUBROUTINE STDLB                                                  AG   5
      DIMENSION IROUT(10)                                               AG  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AG  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AG  20
      EQUIVALENCE (IROUT,ROUT)                                          AG  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AG  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AG  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AG  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AG  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AG  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AG  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AG  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AG  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AG  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AG  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AG  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AG  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AG  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AG  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AG 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AG 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AG 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AG 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AG 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AG 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AG 130
      INTEGER CHL                                                       AG 135
C      ENTER STANDARD PCB DATA                                          AG 140
    5 CONTINUE                                                          AG 145
      WRITE (TOUT,155)                                                  AG 150
      WRITE (TOUT,75)                                                   AG 155
      READ (TIN,70) RIN                                                 AG 160
      NELM = KNVRT(RIN,1,80,ROUT,3)                                     AG 165
      IF (NELM.GT.1) WRITE (TOUT,130)                                   AG 170
      IF (NELM.GT.1) GO TO 5                                            AG 175
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.7) WRITE (TOUT,115)              AG 180
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.7) GO TO 5                       AG 185
      NOINJ = IROUT(1)                                                  AG 190
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      WRITE (TOUT,150) NOINJ                                            AG 195
      CALL CKCORRT (LBL3,JANS)                                          AG 200
      IF (JANS) 10,60,5                                                 AG 205
C                                                                       AG 210
 10   CONTINUE                                                          AG 215
      WRITE (TOUT,80)                                                   AG 220
      READ (TIN,70) (STDNAM(I),I=1,6)                                   AG 225
 15   CONTINUE                                                          AG 230
      WRITE (TOUT,85)                                                   AG 235
      READ (TIN,70) RIN                                                 AG 240
      NELM = KNVRT(RIN,1,80,ROUT,9)                                     AG 245
      IF (NELM.NE.NOINJ) WRITE (TOUT,90)                                AG 250
      IF (NELM.NE.NOINJ) GO TO 15                                       AG 255
      DO 20 I=1,NELM                                                    AG 260
           CONC(I) = ROUT(I)                                            AG 265
           IF (CONC(I).EQ.1.0.AND.I.LT.2) WRITE (TOUT,100)              AG 270
           IF (CONC(I).EQ.1.0.AND.I.LT.2) GO TO 15                      AG 275
           IF (CONC(I).EQ.1.0.AND.I.GT.1) CONC(I) = CONC(I-1)           AG 280
           IF (CONC(I).LT.1.E-25.OR.CONC(I).GT.1.0) WRITE (TOUT,115)    AG 285
           IF (CONC(I).LT.1.E-25.OR.CONC(I).GT.1.0) GO TO 15            AG 290
 20   CONTINUE                                                          AG 295
 25   CONTINUE                                                          AG 300
      WRITE (TOUT,95)                                                   AG 305
      READ (TIN,70) RIN                                                 AG 310
      NELM = KNVRT(RIN,1,80,STDINJ,8)                                   AG 315
      IF (NELM.NE.NOINJ) WRITE (TOUT,90)                                AG 320
      IF (NELM.NE.NOINJ) GO TO 25                                       AG 325
      DO 30 I=1,NOINJ                                                   AG 330
           IF (STDINJ(I).GT.9.99.OR.STDINJ(I).LT.0.01) WRITE (TOUT,115) AG 335
           IF (STDINJ(I).GT.9.99.OR.STDINJ(I).LT.0.01) GO TO 25         AG 340
 30   CONTINUE                                                          AG 345
C     CHECK AND CORRECT CONC AND STD INJ VOL DATA                       AG 350
 35   CONTINUE                                                          AG 355
      CALL CKOUT (LBL8,JANS)                                            AG 360
      IF (JANS) 65,60,40                                                AG 365
C                                                                       AG 370
 40   CONTINUE                                                          AG 375
      WRITE (TOUT,135) LBL8                                             AG 380
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      WRITE (TOUT,145) IDATE,MON,IDA,IYR,JDATE,IDPER                    AG 385
      WRITE (TOUT,165) LBL2,STDNAM                                      AG 390
      WRITE (TOUT,120)                                                  AG 395
      DO 45 I=1,NOINJ                                                   AG 400
           WRITE (TOUT,125) I,STDINJ(I),CONC(I)                         AG 405
 45   CONTINUE                                                          AG 410
 50   CONTINUE                                                          AG 415
      CALL CKCORRT (LBL3,JANS)                                          AG 420
      IF (JANS) 35,60,55                                                AG 425
C                                                                       AG 430
 55   CONTINUE                                                          AG 435
      WRITE (TOUT,140)                                                  AG 440
      READ (TIN,70) RIN                                                 AG 445
      NELM = KNVRT(RIN,1,80,ROUT,4)                                     AG 450
      IF (NELM.NE.3) WRITE (TOUT,130)                                   AG 455
      IF (NELM.NE.3) GO TO 55                                           AG 460
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOINJ) WRITE (TOUT,100)          AG 465
      IF (IROUT(1).LT.1.OR.IROUT(1).GT.NOINJ) GO TO 55                  AG 470
      IF (ROUT(2).GT.9.99.OR.ROUT(2).LT.0.01) WRITE (TOUT,105)          AG 475
      IF (ROUT(2).GT.9.99.OR.ROUT(2).LT.0.01) GO TO 55                  AG 480
      IF (ROUT(3).GT.1.0.OR.ROUT(3).LT.1.E-25) WRITE (TOUT,110)         AG 485
      IF (ROUT(3).GT.1.0.OR.ROUT(3).LT.1.E-25) GO TO 55                 AG 490
      JC = IROUT(1)                                                     AG 495
      STDINJ(JC) = ROUT(2)                                              AG 500
      CONC(JC) = ROUT(3)                                                AG 505
      GO TO 50                                                          AG 510
C                                                                       AG 515
 60   CONTINUE                                                          AG 520
      WRITE (TOUT,160)                                                  AG 525
 65   RETURN                                                            AG 530
C                                                                       AG 535
C                                                                       AG 540
C                                                                       AG 545
 70   FORMAT (8A10)                                                     AG 550
 75   FORMAT (T5,*ENTER NO OF INJECTIONS(7 MAX):*)                      AG 555
 80   FORMAT (T5,*ENTER PCB STD NAMES(50 CHAR MAX):*)                   AG 560
 85   FORMAT (T5,*ENTER STD CONC FOR EACH INJ IN FORM CONC,CONC,...*/T5,  AG 565
     $*ENTER 1.  IF YOU WANT PRIOR VALUE*/T5,*ENTER DATA:*)             AG 570
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90    FORMAT (T5,*ENTER A CORRESPONDING CONC FOR EACH INJECTION:*)          AG 575
95    FORMAT (T5,*ENTER CORRESPONDING INJ VOL(UL):*)                        AG 580
100   FORMAT (T5,*ERROR IN FIELD 1*)                                        AG 585
105   FORMAT (T5,*ERROR IN FIELD 2*)                                        AG 590
110   FORMAT (T5,*ERROR IN FIELD 3*)                                        AG 595
115   FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)               AG 600
120   FORMAT (/T5,*NO*,T12,*INJ VOL*,T24,*CONC*,T34,*AREA*,T42,*RODE*)      AG 605
125   FORMAT (T5,I2,T12,F5.2,T22,E10.4,T34,F6.0,T42,E10.4)                  AG 610
130   FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                          AG 615
135   FORMAT (/T15,A10,* DATA TABLE:*)                                      AG 620
140   FORMAT (T5,* REENTER WHOLE LINE OF DATA...*/T5*=*)                    AG 625
145   FORMAT (T5,*RUN DATE:*,A10,2X,*CALC DATE:*,3(I2,1X),1X,I3,2X,         AG 630
     $*PERSON:*,A4)                                                         AG 635
150   FORMAT (T5,*VALUE ENTERED=*,I10)                                      AG 640
155   FORMAT (/T5,*ENTER PCB STANDARD DATA:*)                               AG 645
160   FORMAT (///T5,*ERROR IN CHECSUBR, JANS=0....*)                        AG 650
165   FORMAT (T5,A10,* NAMES:*,5A10)                                        AG 655
      END                                                                   AG 660
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      SUBROUTINE ARCIN(NINJ,NSTRT,NSTOP,SAREA)                          AH   5
      DIMENSION IROUT(10)                                               AH  10
      COMMON /SET1/ RIN(8),ROUT(10)                                     AH  15
      COMMON /DEVICE/ TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                   AH  20
      EQUIVALENCE (IROUT,ROUT)                                          AH  25
      INTEGER TIN,TOUT,SPA,SPB,SPC,SPD,IN,OUT                           AH  30
      COMMON /SET2/ NOCLU,FI(20),NAMPCB(6)                              AH  35
      COMMON /SET3/ NOINJ,CONC(7),AREA(7,20),STDINJ(8)                  AH  40
      COMMON /SET4/ NODDE,CDE(7),ARDDE(50),DDEINJ(50),NAMDDE(5)         AH  45
      COMMON /SET5/ DDECON(50),RDDE(50)                                 AH  50
      COMMON /SET6/ SAMNAME(5),VOLINJ(5),SAMAR(5,20),SR(20),SRR(20)     AH  55
      COMMON /SET7/ SRPT(20),SRM(20),SRRM(20),SRMPT(20)                 AH  60
      COMMON /SET8/ FRACC(20),FRACM(20)                                 AH  65
      COMMON /SET9/ STDNAM(5),SAMI(7,20),SCON(7,20),R(7,20)             AH  70
      COMMON /SET10/ CMI(8,5),CSCON(8,5)                                AH  75
      COMMON /SET11/ IDCHAR,ITYPE,IDPER,IDATE,JDATE,MON,IDA,IYR,FINVOL  AH  80
      COMMON /SET12/ ANORM,SAMUNIT                                      AH  85
      COMMON /SET13/ SI(20),JUMP,RAVG(20),RSD(20)                       AH  90
      COMMON /SET14/ DDEAVG,DDESTD,SRDDE,SRRDDE,SRDDEPT,EPCB,FORM       AH  95
      COMMON /SET15/ TBLCI,TBLMI,TBLCN,TBLMN,SHIFT                      AH 100
      COMMON /SET16/ CHL(20),ISAMINJ                                    AH 105
      DATA LBL1/3HDDE/,LBL2/8HSTD AREA/,LBL3/3HXXX/,LBL4/4HRDDE/        AH 110
      DATA LBL5/8HSAM CONC/,LBL6/2HFI/,LBL7/8HSAM AREA/,LBL8/8HSTD CONC/ AH 115
      DATA LBL9/2HRI/,LBL10/2HMJ/,LBL11/7HSAM INJ/,LBL12/4HNOR=/        AH 120
      DATA LBL13/4HUNT=/,LBL14/4HLBL=/,LBL15/9HGROUP MJN/               AH 125
      DATA LBL16/10HGROUP CN  /,LBL17/2HSI/,LBL18/5HSTDCB/              AH 130
      INTEGER CHL                                                       AH 135
5     CONTINUE                                                          AH 140
      DO 30 I=1,NINJ                                                    AH 145
10        CONTINUE                                                      AH 150
          DO 25 J=NSTRT,NSTOP                                           AH 155
15            CONTINUE                                                  AH 160
              AREA(I,J) = 0.0                                           AH 165
              WRITE (TOUT,40) I,J                                       AH 170
              READ (TIN,35) RIN                                         AH 175
              IF (RIN(1).EQ.10HSSSSSSSSSS) GO TO 5                      AH 180
              IF (RIN(1).EQ.10HXXXXXXXXXX.AND.J.EQ.1.AND.I.NE.1) I = I  AH 185
     $        -1                                                        AH 190
```

```
                IF (RIN(1).EQ.10HXXXXXXXXXX.AND.J.EQ.1.AND.I.NE.1)          AH 195
     $           GO TO 10                                                   AH 200
                IF (RIN(1).EQ.10HXXXXXXXXXX) GO TO 10                       AH 205
                NELM = KNVRT(RIN,1,80,ROUT,10)                              AH 210
                IF (NELM.GT.10.OR.NELM.LT.1) WRITE (TOUT,50)                AH 215
                IF (NELM.GT.10.OR.NELM.LT.1) GO TO 15                       AH 220
                DO 20 K=1,NELM                                              AH 225
                     AREA(I,J) = AREA(I,J)+FLOAT(IROUT(K))                  AH 230
                     IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) WRITE         AH 235
     $               (TOUT,45)                                              AH 240
                     IF (IROUT(K).LT.1.OR.IROUT(K).GT.999999) GO TO 15      AH 245
 20             CONTINUE                                                    AH 250
 25        CONTINUE                                                         AH 255
 30   CONTINUE                                                              AH 260
C     FORMATS                                                               AH 265
C                                                                           AH 270
      RETURN                                                                AH 275
C                                                                           AH 280
C                                                                           AH 285
 35   FORMAT (8A10)                                                         AH 290
 40   FORMAT (T5,*ENTER INJ NO *,I2,*,CLUSTER NO *,I2,*:*)                  AH 295
 45   FORMAT (T5,*ERROR, A VALUE IS NOT IN ACCEPTABLE RANGE*)               AH 300
 50   FORMAT (T5,*ERROR-INCORRECT NO OF ENTRIES *)                          AH 305
      END                                                                   AH 310-
```

```
UW-CDC INTERCOM 4.5
ATE  04/12/77
IME  09.06.36.
LEASE ENTER LOGIN
LOGIN,9XK91J01,CHEMIN,5


04/12/77   LOGGED IN AT  09.07.00.
           WITH USER-ID 8S
           EQUIP/PORT 13/041
COMMAND- WIDTH,80
COMMAND- ETL,20
COMMAND- ATTACH,SHP1,LINKED,ID=CHEMIN
PE CYCLE NO. = 826
COMMAND- SHP1
  ENTER RUN DATE(10 CHAR MAX)? 6 APR 77
  CHARACTERS ACCEPTED= 6 APR 77

  ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
  ENTER 3 CHAR PERSONAL INITIALS: RMBD
  CHARACTERS ACCEPTED=RMD

  ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

  ENTER AREA INPUT FORM CODE
  ENTER 1 FOR LONG FORM, 2 FOR SHORT FORM
  #1
  VALUE ACCEPTED=  1

  ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
  ENTER 1 IF YOU WANT TO ENTER RI ONLY,
  ENTER 2  FOR MIXED PCB STDS,
  ENTER 3 FOR INDIVIDUAL PCB STDS....#2
  VALUE ACCEPTED=2
```

```
ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

DO YOU WANT TO USE PRESET FI TABLES(YES/NO)?YE

DO YOU WANT TO USE 15 CLUSTER FI TABLE(YES/NO)?NO

DO YOU WANT TO USE 16 CLUSTER FI TABLE(YES/NO)?YE

          FI            DATA TABLE:
RUN DATE: 6 APR 77      CALC DATE: 4 12 77  102  PERSON:RND
CL=CLUSTER NUMBER

CL NO    FI             NO CHLORINES
 1     6.4000E-02        2
 2     1.0320E-01        3
 3     1.0430E-01        3
 4     8.3400E-02        4
 5     6.3700E-02        4
 6     9.7100E-02        4
 7     8.3100E-02        5
 8     3.1800E-02        5
 9     5.8400E-02        5
10     6.5000E-02        5
11     4.3500E-02        6
12     3.7700E-02        5
13     7.2000E-02        6
14     2.3300E-02        7
15     3.2200E-02        7
16     2.0400E-02        7

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

DO YOU WANT TO OUTPUT FI          DATA TABLE?
ENTER YES OR NO: NO
```

```
.....SUM OF FI,S = 9.8310E-01

ANY (MORE) CORRECTIONS' ENTER YES OR NO: NO

ENTER PCB STANDARD DATA:
ENTER NO OF INJECTIONS(7 MAX): 3
VALUE ENTERED=          3

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER PCB STD NAMES(50 CHAR MAX): MIXED-A
ENTER STD CONC FOR EACH INJ IN FORM CONC,CONC,...
ENTER 1.  IF YOU WANT PRIOR VALUE
ENTER DATA: 1.68E-6,1.,1.
ENTER CORRESPONDING INJ VOL(UL): 2.1 2.1 2.09

DO YOU WANT TO OUTPUT STD CONC   DATA TABLE?
ENTER YES OR NO: YE

          STD CONC   DATA TABLE:
RUN DATE: 6 APR 77   CALC DATE: 4 12 77  102  PERSON:RND
STD AREA   NAMES:MIXED-A

NO      INJ VOL      CONC       AREA     RDDE
 1       2.10      1.6800E-06
 2       2.10      1.6800E-06
 3       2.09      1.6800E-06

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

DO YOU WANT TO OUTPUT STD CONC   DATA TABLE?
ENTER YES OR NO: NO
ENTER STD RAW AREAS TABLE:
ENTER ONLY INTEGERS FOR AREAS, MIN=1,MAX=999999 !!!
 MAX NO ENTRIES ACCEPTED PER CLUSTER=10:
```

```
ENTER INJ NO  1,CLUSTER NO  1: 971 5083
ENTER INJ NO  1,CLUSTER NO  2: 10044
ENTER INJ NO  1,CLUSTER NO  3: 33769
ENTER INJ NO  1,CLUSTER NO  4: 21572
ENTER INJ NO  1,CLUSTER NO  5: 18110
ENTER INJ NO  1,CLUSTER NO  6: 33681
ENTER INJ NO  1,CLUSTER NO  7: 28494
ENTER INJ NO  1,CLUSTER NO  8: 11883
ENTER INJ NO  1,CLUSTER NO  9: 26198
ENTER INJ NO  1,CLUSTER NO 10: 29721
ENTER INJ NO  1,CLUSTER NO 11: 19795
ENTER INJ NO  1,CLUSTER NO 12: 20281
ENTER INJ NO  1,CLUSTER NO 13: 40610
ENTER INJ NO  1,CLUSTER NO 14: 12787 5781
ENTER INJ NO  1,CLUSTER NO 15: 19286
ENTER INJ NO  1,CLUSTER NO 16: 15997
ENTER INJ NO  2,CLUSTER NO  1: 794 4494
ENTER INJ NO  2,CLUSTER NO  2: 9123
ENTER INJ NO  2,CLUSTER NO  3: 32025
ENTER INJ NO  2,CLUSTER NO  4: 20038
ENTER INJ NO  2,CLUSTER NO  5: 16473
ENTER INJ NO  2,CLUSTER NO  6: 31872
ENTER INJ NO  2,CLUSTER NO  7: 26479
ENTER INJ NO  2,CLUSTER NO  8: 10410
ENTER INJ NO  2,CLUSTER NO  9: 24477
ENTER INJ NO  2,CLUSTER NO 10: 27000
ENTER INJ NO  2,CLUSTER NO 11: 18121
ENTER INJ NO  2,CLUSTER NO 12: 18624
ENTER INJ NO  2,CLUSTER NO 13: 37465
ENTER INJ NO  2,CLUSTER NO 14: 11433 5063
ENTER INJ NO  2,CLUSTER NO 15: 18475
ENTER INJ NO  2,CLUSTER NO 16: 15911
ENTER INJ NO  3,CLUSTER NO  1: 673 4399
ENTER INJ NO  3,CLUSTER NO  2: 8916
ENTER INJ NO  3,CLUSTER NO  3: 31605
ENTER INJ NO  3,CLUSTER NO  4: 19927
```

```
ENTER INJ NO  3,CLUSTER NO  5: 16252
ENTER INJ NO  3,CLUSTER NO  6: 31214
ENTER INJ NO  3,CLUSTER NO  7: 26527
ENTER INJ NO  3,CLUSTER NO  8: 9916
ENTER INJ NO  3,CLUSTER NO  9: 24191
ENTER INJ NO  3,CLUSTER NO 10: 27142
ENTER INJ NO  3,CLUSTER NO 11: 17987
ENTER INJ NO  3,CLUSTER NO 12: 18351
ENTER INJ NO  3,CLUSTER NO 13: 37248
ENTER INJ NO  3,CLUSTER NO 14: 10763 4874
ENTER INJ NO  3,CLUSTER NO 15: 18194
ENTER INJ NO  3,CLUSTER NO 16: 16075

          STD AREA   DATA TABLE:
RUN DATE: 6 APR 77   CALC DATE: 4 12 77  102  PERSON:RND
STD CONC   NAMES:MIXED-A
CL=CLUSTER NUMBER
CL  AREA 1  AREA 2  AREA 3  AREA 4  AREA 5  AREA 6  AREA 7
 1   6054    5288    5072
 2  10044    9123    8916
 3  33769   32025   31605
 4  21572   20038   19927
 5  18110   16473   16252
 6  33681   31872   31214
 7  28494   26479   26527
 8  11883   10410    9916
 9  26198   24477   24191
10  28721   27050   27142
11  19795   18121   17987
12  20281   18624   18351
13  40610   37465   37248
14  18568   16496   15637
15  19286   18475   18194
16  15997   15911   16075

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
```

```
DO YOU WANT TO OUTPUT STD AREA   DATA TABLE?
ENTER YES OR NO: NO

ENTER DDE STANDARD DATA:
ENTER DDE STD NAMES(50 CHAR MAX): DDE-A
ENTER NO OF STD DDE CONC USED(7 MAX): 1
VALUE ENTERED=          1

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER DDE STD CONC NO  1: 3.47E-7
ENTER NO OF INJ (50 MAX): 13
VALUE ENTERED=         13

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER STD DDE CONC DATA IN FORM:STD NO,INJVOL,AREA
STD NO AND AREA =INTEGER,INJ VOL = REAL
ENTER DATA FOR DDE INJ NO  1: 1 2.02 118836
ENTER DATA FOR DDE INJ NO  2: 1 2.11 120038
ENTER DATA FOR DDE INJ NO  3: 1 2.11 125096
ENTER DATA FOR DDE INJ NO  4: 1 2.1 126598
ENTER DATA FOR DDE INJ NO  5: 1 2.02 117530
ENTER DATA FOR DDE INJ NO  6: 1 1.93 111914
ENTER DATA FOR DDE INJ NO  7: 1 1.90 110694
ENTER DATA FOR DDE INJ NO  8: 1 1.99 108718
ENTER DATA FOR DDE INJ NO  9: 1 2.10 114524
ENTER DATA FOR DDE INJ NO 10: 1 2.00 115090
ENTER DATA FOR DDE INJ NO 11: 1 2.00 115150
ENTER DATA FOR DDE INJ NO 12: 1 2.00 114388
ENTER DATA FOR DDE INJ NO 13: 1 1.97 112792
```

```
            DDE          DATA TABLE:
RUN DATE: 6 APR 77    CALC DATE: 4 12 77  102  PERSON:RND
DDE          NAMES:DDE-A

NO      INJ VOL      CONC        AREA     RDDE
 1       2.01      3.4700E-07   118836   1.7038E+14
 2       2.11      3.470[illegible]7   120038   1.6395E+14
 3       2.11      3.470[illegible]07   125096   1.7086E+14
 4       2.10      3.4700E-07   126598   1.7373E+14
 5       2.02      3.4700E-07   117530   1.6767E+14
 6       1.93      3.4700E-07   111914   1.6711E+14
 7       1.90      3.4700E-07   110694   1.6790E+14
 8       1.99      3.4700E-07   108718   1.5744E+14
 9       2.10      3.4700E-07   114524   1.5716E+14
10       2.00      3.4700E-07   115090   1.6584E+14
11       2.00      3.4700E-07   115150   1.6592E+14
12       2.00      3.4700E-07   114388   1.6482E+14
13       1.97      3.4700E-07   112792   1.6500E+14

RDDE AVG=1.6598E+14        STD DEV=4.7273E+12
RDDE STATS:  SR=2.1578E+15    SRR=3.5842E+29     SPT=13.0

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

DO YOU WANT TO OUTPUT DDE          DATA TABLE?
ENTER YES OR NO: NO

DO YOU WANT TO OUTPUT RI           DATA TABLE?
ENTER YES OR NO: YE
```

RI DATA TABLE:

STD AREA NAMES:MIXED-A

RUN DATE: 6 APR 77 CALC DATE: 4 12 77 102 PERSON:RMD

CL=CLUSTER NUMBER

CL	RI 1	RI 2	RI 3	RI 4	RI 5	RI 6	RI 7
1	2.681E+13	2.342E+13	2.257E+13				
2	2.759E+13	2.506E+13	2.461E+13				
3	9.177E+13	8.703E+13	8.630E+13				
4	7.332E+13	6.810E+13	6.805E+13				
5	8.058E+13	7.330E+13	7.266E+13				
6	9.832E+13	9.304E+13	9.155E+13				
7	9.719E+13	9.032E+13	9.091E+13				
8	1.059E+14	9.279E+13	8.881E+13				
9	1.272E+14	1.188E+14	1.180E+14				
10	1.252E+14	1.180E+14	1.189E+14				
11	1.290E+14	1.181E+14	1.178E+14				
12	1.525E+14	1.400E+14	1.386E+14				
13	1.599E+14	1.475E+14	1.473E+14				
14	2.259E+14	2.007E+14	1.911E+14				
15	1.698E+14	1.626E+14	1.609E+14				
16	2.223E+14	2.211E+14	2.244E+14				

```
          RI          DATA TABLE:
RUN DATE: 6 APR 77    CALC DATE: 4 12 77  102  PERSON:RMD
STD AREA   NAMES:MIXED-A
CL=CLUSTER NUMBER
CLNO RAVG        STDDEV      SR          SRR         SPT         SI
 1   2.4268E+13 2.2443E+12 7.2803E+13 1.7768E+27 3.0000E+00 1.4620E-01
 2   2.5750E+13 1.6067E+12 7.7249E+13 1.9943E+27 3.0000E+00 1.5513E-01
 3   8.8368E+13 2.9698E+12 2.6510E+14 2.3444E+28 3.0000E+00 5.3239E-01
 4   6.9822E+13 3.0255E+12 2.0947E+14 1.4644E+28 3.0000E+00 4.2066E-01
 5   7.5516E+13 4.4011E+12 2.2655E+14 1.7147E+28 3.0000E+00 4.5496E-01
 6   9.4304E+13 3.5558E+12 2.8291E+14 2.6705E+28 3.0000E+00 5.6815E-01
 7   9.2807E+13 3.8076E+12 2.7842E+14 2.5869E+28 3.0000E+00 5.5914E-01
 8   9.5838E+13 8.9533E+12 2.8752E+14 2.7715E+28 3.0000E+00 5.7740E-01
 9   1.2131E+14 5.0780E+12 3.6393E+14 4.4199E+28 3.0000E+00 7.3085E-01
10   1.2071E+14 3.9574E+12 3.6213E+14 4.3743E+28 3.0000E+00 7.2724E-01
11   1.2161E+14 6.3897E+12 3.6483E+14 4.4448E+28 3.0000E+00 7.3266E-01
12   1.4371E+14 7.6265E+12 4.3114E+14 6.2076E+28 3.0000E+00 8.6583E-01
13   1.5157E+14 7.1927E+12 4.5470E+14 6.9021E+28 3.0000E+00 9.1315E-01
14   2.0590E+14 1.7952E+13 6.1769E+14 1.2783E+29 3.0000E+00 1.2405E+00
15   1.6444E+14 4.6928E+12 4.9332E+14 8.1166E+28 3.0000E+00 9.9070E-01
16   2.2259E+14 1.0004E+12 6.6777E+14 1.4864E+29 3.0000E+00 1.3410E+00

ENTER 1.0 TO BACK CALC STD CONC,OTHERWISE 0.0: 1.0

ENTER TABLE OUTPUT CODES:-1.0 TABLE NOT LISTED,
                          1.0 TABLE IS LISTED
ENTER IN ORDER- TBLMI, TBLCI,TBLMN,TBLCN: +1.0 -1.0 -1.0 -1.0

VALUES ENTERED= -1.0  -1.0  -1.0  -1.0

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
```

SAM CONC DATA TABLE:

RUN DATE: 6 APR 77 CALC DATE: 4 12 77 102 PERSON:RMD

SAMPLE LABEL=MIXED-A

SAMPLE ID=STDMX SAMPLE TYPE=99

NORMALIZING FACTOR:1.0000E+00 WITH UNITS ML

FINAL VOL(ML):1.0000E+00

CONC IS GM NCB PER ML

CL=CLUSTER NUMBER

CL	AVG MI	STDDEV MI	AVG CI	STDDEV CI	FRAC C	FRAC M	CHLORINES
1	1.075E-07	9.944E-09	1.075E-07	9.944E-09	6.510E-02	6.510E-02	2.000E+00
2	1.734E-07	1.082E-08	1.734E-07	1.082E-08	1.050E-01	1.050E-01	3.000E+00
3	1.752E-07	5.889E-09	1.752E-07	5.889E-09	1.061E-01	1.061E-01	3.000E+00
4	1.401E-07	6.071E-09	1.401E-07	6.071E-09	8.483E-02	8.483E-02	4.000E+00
5	1.070E-07	6.237E-09	1.070E-07	6.237E-09	6.480E-02	6.480E-02	4.000E+00
6	1.631E-07	6.151E-09	1.631E-07	6.151E-09	9.877E-02	9.877E-02	4.000E+00
7	1.396E-07	5.728E-09	1.396E-07	5.728E-09	8.453E-02	8.453E-02	5.000E+00
8	5.342E-08	4.991E-09	5.342E-08	4.991E-09	3.235E-02	3.235E-02	5.000E+00
9	9.811E-08	4.107E-09	9.811E-08	4.107E-09	5.940E-02	5.940E-02	5.000E+00
10	1.092E-07	3.580E-09	1.092E-07	3.580E-09	6.612E-02	6.612E-02	5.000E+00
11	7.308E-08	3.840E-09	7.308E-08	3.840E-09	4.425E-02	4.425E-02	6.000E+00
12	6.334E-08	3.361E-09	6.334E-08	3.361E-09	3.835E-02	3.835E-02	5.000E+00
13	1.210E-07	5.740E-09	1.210E-07	5.740E-09	7.324E-02	7.324E-02	6.000E+00
14	3.914E-08	3.413E-09	3.914E-08	3.413E-09	2.370E-02	2.370E-02	7.000E+00
15	5.410E-08	1.544E-09	5.410E-08	1.544E-09	3.275E-02	3.275E-02	7.000E+00
16	3.427E-08	2.612E-10	3.427E-08	2.612E-10	2.075E-02	2.075E-02	7.000E+00
TT	1.652E-06	2.291E-08	1.652E-06	2.291E-08	1.000E+00	1.000E+00	

MESSAGE...FINAL DATA TABLE IS WRITTEN

TEMPERORY FILE SPAREA....

```
          GROUP CN   DATA TABLE:
RUN DATE: 6 APR 77   CALC DATE: 4 12 77  102  PERSON:RND
SAMPLE LABEL=MIXED-A
SAMPLE ID=STDMX     SAMPLE TYPE=99
NORMALIZING FACTOR:1.0000E+00      WITH UNITS  ML
FINAL VOL(ML):1.0000E+00
CONC IS GM NCB PER  ML
CL=NUMBER OF CHLORINES
CL AVG MI     STDDEV MI AVG CI     STDDEV CI FRAC C     FRAC M     CHLORINES
 2 1.075E-07 9.944E-09 1.075E-07 9.944E-09 6.510E-02 6.510E-02 2.000E+00
 3 3.486E-07 1.671E-08 3.486E-07 1.671E-08 2.111E-01 2.111E-01 3.000E+00
 4 4.103E-07 1.839E-08 4.103E-07 1.839E-08 2.484E-01 2.484E-01 4.000E+00
 5 4.637E-07 2.159E-08 4.637E-07 2.159E-08 2.807E-01 2.807E-01 5.000E+00
 6 1.940E-07 9.580E-09 1.940E-07 9.580E-09 1.175E-01 1.175E-01 6.000E+00
 7 1.275E-07 4.856E-09 1.275E-07 4.856E-09 7.720E-02 7.720E-02 7.000E+00

TT 1.652E-06 8.092E-08 1.652E-06 8.092E-08 1.000E+00 1.000E+00

AVG GROUP CN WRITTEN ON TEMPORARY FILE SPAREB


DO YOU WANT TO CALC VALUES FOR MORE SAMPLES???
ENTER YES OR NO: YE


ENTER SAMPLE LABEL(50 CHAR MAX):  PCB-342-16-64-1-2
CHARACTERS ACCEPTED= PCB-342-16-64-1-2

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER 5 CHARACTER ID: AS301
CHARACTERS ACCEPTED=AS301

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER NORMALIZING UNITS(10 CHAR MAX): DRY GRAM
CHARACTERS ACCEPTED=DRY GRAM
```

```
ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

ENTER: TYPE, NO INJ, NORM FAC, FIN VOL(ML):
#2 3 10.38 2.08

DATA ACCEPTED: TYPE NO INJ    NORM FAC     FIN VOL
                 2      3     1.0380E+01  2.0800E+00

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO
ENTER THE CORRESPONDING INJ VOL(UL) FOR EACH INJ:
=2.06 2.2 2.11

DO YOU WANT TO OUTPUT SAM INJ    DATA TABLE?
ENTER YES OR NO: NO
ENTER AREAS FOR EACH CLUSTER:
ENTER ONLY INTEGERS FOR AREAS, MIN=1,MAX=999999 !!!
ENTER INJ NO  1,CLUSTER NO  1: 838 3524
ENTER INJ NO  1,CLUSTER NO  2: 9785
ENTER INJ NO  1,CLUSTER NO  3: 45056
ENTER INJ NO  1,CLUSTER NO  4: 39852
ENTER INJ NO  1,CLUSTER NO  5: 30665
ENTER INJ NO  1,CLUSTER NO  6: 67398
ENTER INJ NO  1,CLUSTER NO  7: 63507
ENTER INJ NO  1,CLUSTER NO  8: 27315
ENTER INJ NO  1,CLUSTER NO  9: 55537
ENTER INJ NO  1,CLUSTER NO 10: 62137
ENTER INJ NO  1,CLUSTER NO 11: 38648
ENTER INJ NO  1,CLUSTER NO 12: 42475
ENTER INJ NO  1,CLUSTER NO 13: 77350
ENTER INJ NO  1,CLUSTER NO 14: 19709 9556
```

```
ENTER INJ NO  1,CLUSTER NO 15: 31528
ENTER INJ NO  1,CLUSTER NO 16: 35314
ENTER INJ NO  2,CLUSTER NO  1: 902 3770
ENTER INJ NO  2,CLUSTER NO  2: 10373
ENTER INJ NO  2,CLUSTER NO  3: 47967
ENTER INJ NO  2,CLUSTER NO  4: 43302
ENTER INJ NO  2,CLUSTER NO  5: 34881
ENTER INJ NO  2,CLUSTER NO  6: 76078
ENTER INJ NO  2,CLUSTER NO  7: 71096
ENTER INJ NO  2,CLUSTER NO  8: 29961
ENTER INJ NO  2,CLUSTER NO  9: 61350
ENTER INJ NO  2,CLUSTER NO 10: 67724
ENTER INJ NO  2,CLUSTER NO 11: 42702
ENTER INJ NO  2,CLUSTER NO 12: 47711
ENTER INJ NO  2,CLUSTER NO 13: 88952
ENTER INJ NO  2,CLUSTER NO 14: 25055 10973
ENTER INJ NO  2,CLUSTER NO 15: 36454
ENTER INJ NO  2,CLUSTER NO 16: 36717
ENTER INJ NO  3,CLUSTER NO  1: 1
ENTER INJ NO  3,CLUSTER NO  2: 10055
ENTER INJ NO  3,CLUSTER NO  3: 46422
ENTER INJ NO  3,CLUSTER NO  4: 41884
ENTER INJ NO  3,CLUSTER NO  5: 33176
ENTER INJ NO  3,CLUSTER NO  6: 72458
ENTER INJ NO  3,CLUSTER NO  7: 69182
ENTER INJ NO  3,CLUSTER NO  8: 31893
ENTER INJ NO  3,CLUSTER NO  9: 63214
ENTER INJ NO  3,CLUSTER NO 10: 70230
ENTER INJ NO  3,CLUSTER NO 11: 46438
ENTER INJ NO  3,CLUSTER NO 12: 51852
ENTER INJ NO  3,CLUSTER NO 13: 92090
ENTER INJ NO  3,CLUSTER NO 14: 23008 11107
ENTER INJ NO  3,CLUSTER NO 15: 35298
ENTER INJ NO  3,CLUSTER NO 16: 33876
```

SAM AREA DATA TABLE:
RUN DATE: 6 APR 77 CALC DATE: 4 12 77 102 PERSON:RND
SAMPLE LABEL= PCB-342-16-64-1-2
SAMPLE ID=AS301 SAMPLE TYPE= 2
NORMALIZING FACTOR:1.0380E+01 WITH UNITS DRY GRAM
FINAL VOL(ML):2.0300E+00
CL=CLUSTER NUMBER

CL	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA
1	4362	4672	1			
2	9785	10373	10055			
3	45056	47967	46422			
4	39852	43302	41884			
5	30665	34881	33176			
6	67398	76078	72458			
7	63507	71096	69172			
8	27315	29961	31893			
9	55537	61350	63214			
10	62137	67724	70230			
11	38648	42702	46438			
12	42475	47711	51852			
13	77350	88952	91010			
14	29265	36028	34115			
15	31528	36454	35294			
16	35314	36717	33876			

ANY (MORE) CORRECTIONS? ENTER YES OR NO: NO

DO YOU WANT TO OUTPUT SAM AREA DATA TABLE?
ENTER YES OR NO: NO

SAM CONC DATA TABLE:
RUN DATE: 6 APR 77 CALC DATE: 4 12 77 102 PERSON:RND
SPMPLE LABEL= PCB-342-16-64-1-2
S PLE ID=AS301 SAMPLE TYPE= 2
NORMALIZING FACTOR:1.0380E+01 WITH UNITS DRY GRAM
FINAL VOL(ML):2.0800E+00
CONC IS GM NCB PER DRY GRAM

CL	AVG MI	STDDEV MI	AVG CI	STDDEV CI	FRAC C	FRAC M	CHLORINE
CL=CLUSTER NUMBER							
1	8.739E-08	.0	1.751E-08	.0	2.745E-02	2.745E-02	2.000E+0
2	1.842E-07	1.003E-09	3.691E-08	2.010E-10	5.786E-02	5.786E-02	3.000E+0
3	2.477E-07	1.136E-09	4.964E-08	2.277E-10	7.781E-02	7.781E-02	3.000E+0
4	2.811E-07	3.681E-09	5.633E-08	7.376E-10	8.828E-02	8.828E-02	4.000E+0
5	2.051E-07	6.960E-09	4.110E-08	1.395E-09	6.442E-02	6.442E-02	4.000E+0
6	3.593E-07	1.075E-08	7.199E-08	2.154E-09	1.128E-01	1.128E-01	4.000E+0
7	3.445E-07	1.100E-08	6.904E-08	2.204E-09	1.082E-01	1.082E-01	5.000E+0
8	1.461E-07	1.027E-08	2.927E-08	2.058E-09	4.587E-02	4.587E-02	5.000E+0
9	2.330E-07	1.266E-08	4.670E-08	2.537E-09	7.319E-02	7.319E-02	5.000E+0
10	2.602E-07	1.369E-08	5.214E-08	2.743E-09	8.173E-02	8.173E-02	5.000E+0
11	1.650E-07	1.413E-08	3.305E-08	2.832E-09	5.181E-02	5.181E-02	6.000E+0
12	1.551E-07	1.424E-08	3.108E-08	2.853E-09	4.872E-02	4.872E-02	5.000E+0
13	2.664E-07	1.842E-08	5.337E-08	3.692E-09	8.366E-02	8.366E-02	6.000E+0
14	7.569E-08	5.815E-09	1.517E-08	1.165E-09	2.377E-02	2.377E-02	7.000E+0
15	9.852E-08	4.742E-09	1.974E-08	9.502E-10	3.094E-02	3.094E-02	7.000E+0
16	7.471E-08	2.455E-09	1.497E-08	4.919E-10	2.346E-02	2.346E-02	7.000E+0
TT	3.184E-06	3.947E-08	6.380E-07	7.910E-09	1.000E+00	1.000E+00	

MESSAGE...FINAL DATA TABLE IS WRITTEN
TEMPERORY FILE SPAREA....

GROUP CN DATA TABLE:

RUN DATE: 6 APR 77 CALC DATE: 4 12 77 102 PERSON:RND

SAMPLE L TL= PCB-342-16-64-1-2

SAMPLE .1 4A$301 SAMPLE TYPE= 2

NORMALIZING FACTOR:1.0380E+01 WITH UNITS DRY GRAM

FINAL VOL(ML):2.0800E+00

CONC IS GM NCB PER DRY GRAM

CL=NUMBER OF CHLORINES

CL	AVG MI	STDDEV MI	AVG CI	STDDEV CI	FRAC C	FRAC M	CHLORINE
2	8.739E-08	1.271E-10	1.751E-08	2.546E-11	2.745E-02	2.745E-02	2.000E+0
3	4.320E-07	2.098E-09	8.656E-08	4.204E-10	1.357E-01	1.357E-01	3.000E+0
4	8.454E-07	2.108E-08	1.694E-07	4.224E-09	2.655E-01	2.655E-01	4.000E+0
5	1.139E-06	6.030E-08	2.282E-07	1.208E-08	3.577E-01	3.577E-01	5.000E+0
6	4.313E-07	3.206E-08	8.643E-08	6.424E-09	1.355E-01	1.355E-01	6.000E+0
7	2.489E-07	8.636E-09	4.988E-08	1.730E-09	7.818E-02	7.818E-02	7.000E+0
TT	3.184E-06	1.165E-07	6.380E-07	2.335E-08	1.000E+00	1.000E+00	

AVG GROUP CN WRITTEN ON TEMPORARY FILE SPAREB

APPENDIX E': HYDROGRAPHY DATA LIST AND DEPTH PROFILES

Explanation of Abbreviation in Data Tables

Sigma-t	:	An expression for the density of seawater at atmospheric pressure.
AOU	:	Apparent oxygen utilization; the difference between the surface equilibrium solubility of a water sample and observed oxygen concentration.
Oxygen % Saturation	:	Observed oxygen concentration divided by the surface equilibrium solubility value.

HYDRO REPORT FOR CR 76 3-16-76 TIME-15.1 HR GMT
STATION NO 19 CAST LAT-47 35.9 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	7.54	21.888	17.10	6.28	.561	86	.088
5	7.44	28.446	22.24	5.97	.533	86	.090
10	7.43	28.604	22.36	5.96	.533	85	.090
50	7.41	28.847	22.56	5.74	.513	82	.110
59	7.46	28.981	22.65	5.44	.486	78	.135

YDRO REPORT FOR CR 76 3-16-76 TIME-16.4 HR GMT
TATION NO 44 CAST LAT-47 35.4 LONG-122 21.6 MARSDEN SQUARE-157

EPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	7.51	22.314	17.43	6.10	.545	84	.103
5	7.43	28.522	22.30	5.95	.531	85	.092
10	7.44	28.605	22.36	5.91	.528	85	.095
24	7.41	28.707	22.45	5.86	.524	84	.099
33	7.43	28.839	22.55	5.76	.515	83	.107

HYDRO REPORT FOR CR 76 3-16-76 TIME-17.6 HR GMT
STATION NO 17 CAST LAT-47 35.5 LONG-122 22.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	7.57	28.155	21.99	6.07	.542	87	.081
5	7.49	28.484	22.26	6.05	.541	87	.082
10	7.46	28.593	22.35	6.01	.537	86	.086
50	7.41	28.707	22.45	5.90	.527	85	.096
59	7.43	28.715	22.45	5.89	.526	84	.097

HYDRO REPORT FOR CR 76 3-16-76 TIME-19.3 HR GMT
STATION NO 6 CAST LAT-47 35.7 LONG-122 22.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	7.89	28.283	22.05	6.02	.538	87	.080
5	7.47	28.499	22.28	6.03	.538	86	.084
10	7.44	28.575	22.34	5.99	.535	86	.088
50	7.42	28.741	22.47	5.89	.526	84	.097
59	7.42	28.759	22.49	5.84	.521	84	.101

HYDRO REPORT FOR CR 76 3-16-76 TIME-20.8 HR GMT
STATION NO 10 CAST LAT-47 35.7 LONG-122 21.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	7.97	25.504	19.87	6.15	.549	87	.079
5	7.49	28.401	22.20	6.05	.540	87	.083
10	7.44	28.575	22.34	6.01	.537	86	.086
50	7.41	28.745	22.48	5.86	.524	84	.099
59	7.42	28.747	22.48	5.85	.522	84	.100

HYDRO REPORT FOR CR 99 4- 8-76 TIME-16.7 HR GMT
STATION NO 19 CAST LAT-47 35.9 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	ADU
0	8.17	18.911	14.70	6.63	.592	91	.060
5	7.81	28.019	21.86	6.31	.564	91	.056
10	7.61	28.664	22.39	6.23	.557	90	.064
50	7.35	28.886	22.59	5.97	.533	86	.090
59	7.54	28.984	22.65	5.77	.515	83	.105

HYDRO REPORT FOR CR 99 4- 8-76 TIME-18.2 HR GMT
STATION NO 44 CAST LAT-47 35.4 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	8.07	17.379	13.52	6.63	.592	90	.068
5	7.76	28.507	22.24	6.27	.560	91	.058
10	7.64	28.686	22.40	6.27	.560	90	.059
20	7.82	28.303	22.08	6.27	.560	91	.058
30	7.52	28.793	22.50	6.06	.541	87	.080

HYDRO REPORT FOR CR 99 4- 8-76 TIME-19.7 HR GMT
STATION NO 17 CAST LAT-47 35.5 LONG-122 22.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	8.06	27.618	21.51	6.49	.579	94	.038
5	7.88	28.419	22.16	6.41	.573	93	.044
10	7.66	28.664	22.38	6.22	.556	90	.064
53	7.39	29.011	22.69	5.85	.523	84	.099
63	7.37	29.037	22.71	5.82	.520	84	.102

3

HYDRO REPORT FOR CR 99 4- 8-76 TIME-21.7 HR GMT
STATION NO 6 CAST LAT-47 35.7 LONG-122 22.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	8.07	25.827	20.11	6.41	.573	92	.052
5	7.69	28.568	22.30	6.31	.564	91	.055
10	7.61	28.729	22.44	6.17	.551	89	.068
50	7.35	29.015	22.70	5.78	.516	83	.106
60	7.35	29.085	22.75	5.70	.509	82	.113

HYDRO REPORT FOR CR 99 4- 8-76 TIME-22.9 HR GMT
STATION NO 10 CAST LAT-47 35.7 LONG-122 21.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	8.08	26.877	20.93	6.33	.565	91	.055
5	7.81	28.493	22.23	6.39	.571	92	.047
10	7.61	28.699	22.41	6.17	.551	89	.069
50	7.33	28.996	22.68	5.75	.513	82	.110
60	7.35	29.074	22.74	5.70	.509	82	.114

HYDRO REPORT FOR CR170 6-18-76 TIME-18.6 HR GMT
STATION NO 44 CAST LAT-47 35.4 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	11.03	25.844	19.69	6.10	.544	93	.040
3	10.02	28.877	22.20	6.07	.542	92	.044
7	9.82	29.146	22.44	5.93	.530	90	.058
10	9.81	29.151	22.45	5.91	.528	90	.060
20	9.79	29.171	22.47	5.89	.526	89	.062

HYDRO REPORT FOR CR170 6-18-76 TIME-16.8 HR GMT
STATION NO 19 CAST LAT-47 35.9 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	10.63	26.000	19.88	5.97	.533	91	.056
5	10.17	28.567	21.94	5.98	.534	91	.051
10	9.85	29.072	22.38	5.92	.529	90	.059
50	9.63	29.276	22.57	5.60	.500	85	.090
59	9.59	29.293	22.59	5.57	.497	84	.093

HYDRO REPORT FOR CR170 6-18-76 TIME-19.9 HR GMT
STATION NO 17 CAST LAT-47 35.5 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	ADU
0	11.41	27.731	21.09	6.13	.547	96	.025
5	10.13	29.065	22.33	6.10	.544	93	.040
10	9.84	29.160	22.45	5.88	.525	89	.062
50	9.52	29.293	22.60	5.50	.491	83	.100
60	9.39	29.363	22.68	5.49	.490	83	.103

HYDRO REPORT FOR CR170 6-18-76 TIME-22.0 HR GMT
STATION NO 6 CAST LAT-47 35.7 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	13.27	14.667	10.72	6.30	.563	94	.034
5	9.76	29.054	22.38	5.97	.533	91	.056
8	9.24	29.136	22.53	5.85	.522	88	.073
10	9.66	29.329	22.61	5.43	.485	82	.104
50	9.34	29.380	22.70	5.32	.475	80	.118

HYDRO REPORT FOR CR170 6-18-76 TIME-22.5 HR GMT
STATION NO 10 CAST LAT-47 35.7 LONG-122 21.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	13.56	18.812	13.85	6.26	.559	97	.019
5	9.86	29.045	22.36	5.98	.534	91	.054
10	9.70	29.160	22.47	5.86	.523	89	.066
50	9.36	29.329	22.66	5.48	.489	82	.104
58	9.19	29.422	22.76	5.20	.464	78	.131

HYDRO REPORT FOR CR266 9-22-76 TIME-16.6 HR GMT
STATION NO 19 CAST LAT-47 35.5 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	12.49	29.162	22.00	5.16	.461	83	.094
0	12.49	29.165	22.00	5.12	.458	83	.097
5	12.45	29.512	22.28	5.35	.478	86	.076
5	12.45	29.511	22.28	5.36	.479	86	.075
10	12.24	29.580	22.37	5.08	.453	82	.103
10	12.24	29.582	22.37	5.07	.453	81	.104
38	11.63	29.744	22.61	4.22	.377	67	.186
38	11.63	29.749	22.61	4.21	.376	67	.187
47	11.45	29.810	22.69	4.13	.369	65	.195
47	11.45	29.810	22.69	4.05	.361	64	.203

HYDRO REPORT FOR CR266 9-22-76 TIME-18.4 HR GMT
STATION NO 44 CAST LAT-47 35.7 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	12.74	25.329	19.00	4.67	.417	74	.148
0	12.74	26.120	19.61	4.68	.418	74	.144
5	12.32	29.500	22.29	5.10	.455	82	.100
5	12.32	29.502	22.29	5.10	.455	82	.100
10	12.20	29.613	22.40	4.96	.443	80	.113
10	12.20	29.615	22.40	4.99	.445	80	.111
46	11.40	29.831	22.71	4.03	.360	64	.205
46	11.40	29.836	22.72	4.01	.358	63	.208
55	11.09	29.950	22.86	3.61	.322	57	.247
55	11.09	29.947	22.86	3.61	.322	57	.247

HYDRO REPORT FOR CR266 9-22-76 TIME-19.6 HR GMT
STATION NO 17 CAST LAT-47 35.7 LONG-122 21.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	12.43	28.588	21.57	4.86	.434	78	.124
0	12.43	28.592	21.57	4.78	.427	77	.131
5	12.32	29.302	22.14	5.02	.448	81	.108
5	12.32	29.317	22.15	5.00	.447	80	.109
10	12.33	29.538	22.32	5.23	.467	84	.088
10	12.33	29.541	22.32	5.19	.463	83	.092
48	11.43	29.833	22.71	4.06	.363	64	.202
48	11.43	29.828	22.71	4.03	.360	64	.205
57	11.27	29.883	22.78	3.85	.344	61	.223
57	11.27	29.883	22.78	3.88	.347	61	.220

HYDRO REPORT FOR CR266 9-22-76 TIME-21.5 HR GMT
STATION NO 6 CAST LAT-47 35.9 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	12.63	27.799	20.92	4.78	.427	77	.130
0	12.63	27.755	20.89	4.83	.432	77	.126
5	12.20	29.427	22.26	4.88	.436	78	.121
5	12.20	29.429	22.26	4.91	.439	79	.118
10	12.09	29.636	22.44	4.91	.438	79	.120
10	12.09	29.636	22.44	4.91	.438	79	.120
44	11.46	29.801	22.68	4.06	.363	64	.202
44	11.46	29.801	22.68	4.03	.360	64	.205
53	11.29	29.869	22.76	3.86	.345	61	.222
53	11.29	29.869	22.76	3.89	.348	61	.219

HYDRO REPORT FOR CR266 9-22-76 TIME-22.5 HR GMT
STATION NO 10 CAST LAT-47 35.4 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	12.86	27.254	20.46	4.93	.440	79	.117
0	12.86	27.262	20.47	4.99	.446	80	.111
5	12.32	29.562	22.34	5.14	.459	83	.096
5	12.32	29.558	22.34	5.16	.461	83	.094
10	12.18	29.643	22.43	5.07	.453	81	.104
10	12.18	29.648	22.43	5.08	.454	82	.103
34	11.79	29.722	22.56	4.39	.392	70	.169
34	11.79	29.719	22.56	4.35	.388	69	.173
43	11.74	29.723	22.57	4.29	.383	68	.179
43	11.74	29.724	22.57	4.30	.384	68	.178

HYDRO REPORT FOR CR343 12- 8-76 TIME-16.7 HR GMT
STATION NO 6 CAST LAT-47 35.7 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	9.93	29.768	22.91	4.52	.404	69	.181
0	9.93	29.776	22.92	4.70	.419	72	.165
5	9.99	30.103	23.16	4.74	.423	73	.159
5	9.99	30.118	23.17	.00	.000	0	.000
10	9.97	30.138	23.19	4.35	.388	67	.194
10	9.97	30.144	23.20	4.54	.406	70	.177
52	9.95	30.191	23.24	4.41	.394	68	.188
52	9.95	30.180	23.23	4.42	.395	68	.188
61	9.90	30.206	23.26	4.42	.395	68	.188
61	9.90	30.215	23.26	4.42	.395	68	.188

HYDRO REPORT FOR CR343 12- 8-76 TIME-18.6 HR GMT
STATION NO 10 CAST LAT-47 35.7 LONG-122 21.7 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	9.88	29.494	22.70	4.75	.424	72	.162
0	9.88	29.478	22.69	4.72	.422	72	.164
5	9.94	29.835	22.96	4.65	.415	71	.168
5	9.94	29.804	22.94	4.66	.416	71	.168
10	9.98	30.134	23.19	4.61	.412	71	.171
10	9.98	30.138	23.19	4.66	.416	71	.166
54	9.90	30.196	23.25	4.42	.395	68	.188
54	9.90	30.192	23.24	4.38	.391	67	.192
63	9.60	30.339	23.41	4.29	.383	65	.203
63	9.60	30.342	23.41	4.38	.391	67	.195

HYDRO REPORT FOR CR343 12- 8-76 TIME-20.2 HR GMT
STATION NO 17 CAST LAT-47 35.5 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	AOU
0	9.93	30.168	23.22	4.67	.417	72	.165
0	9.93	30.150	23.21	4.70	.419	72	.163
5	9.93	30.151	23.21	4.60	.411	71	.172
5	9.93	30.146	23.20	4.65	.415	71	.168
10	9.93	30.139	23.20	4.65	.415	71	.167
10	9.93	30.141	23.20	4.65	.415	71	.168
71	9.69	30.289	23.35	4.33	.386	66	.199
71	9.69	30.286	23.35	4.35	.389	66	.197
80	9.66	30.313	23.38	4.32	.386	66	.200
80	9.66	30.319	23.38	4.29	.383	65	.202

HYDRO REPORT FOR CR343 12- 8-76 TIME-22.1 HR GMT
STATION NO 44 CAST LAT-47 35.4 LONG-122 21.6 MARSDEN SQUARE-157

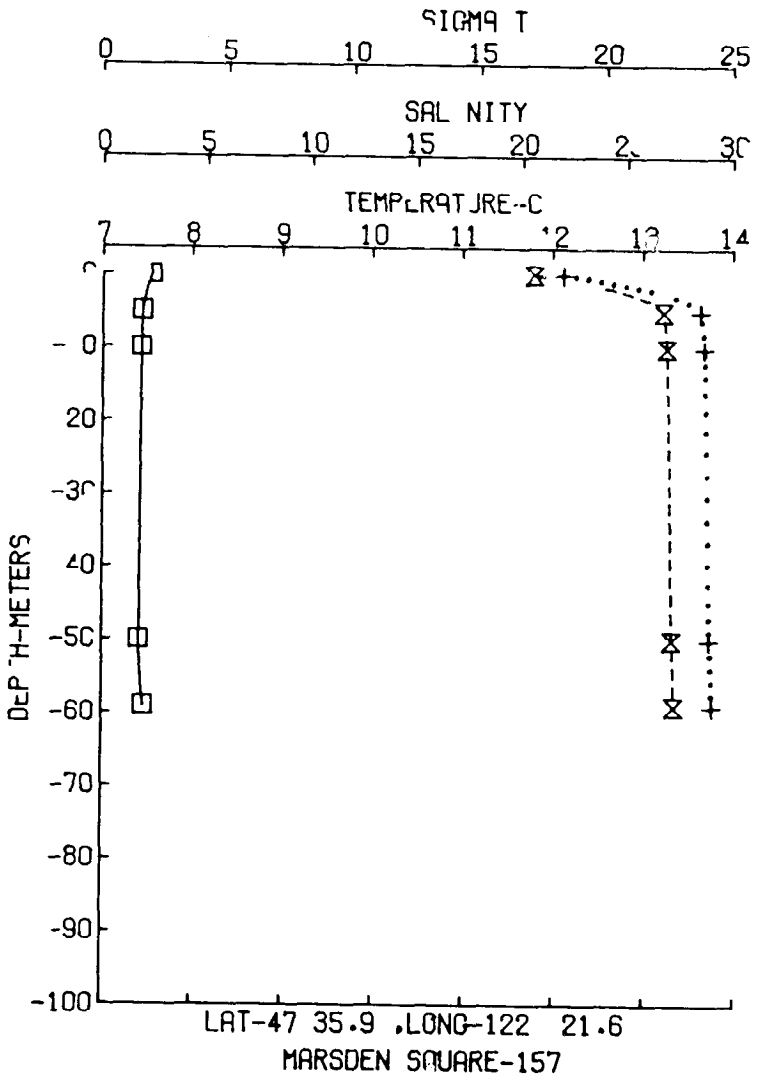
DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	OXYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	ADU
0	9.86	29.208	22.49	4.73	.423	72	.165
0	9.86	29.216	22.49	4.70	.420	71	.167
5	9.95	30.182	23.23	4.57	.408	70	.174
5	9.95	30.168	23.22	4.61	.412	71	.171
10	9.94	30.162	23.21	4.54	.405	70	.178
10	9.94	30.146	23.20	4.56	.408	70	.175
20	9.98	30.169	23.21	4.38	.391	67	.191
20	9.98	30.169	23.21	4.41	.394	68	.188
25	9.95	30.164	23.22	4.43	.396	68	.187
25	9.95	30.170	23.22	4.41	.394	68	.188

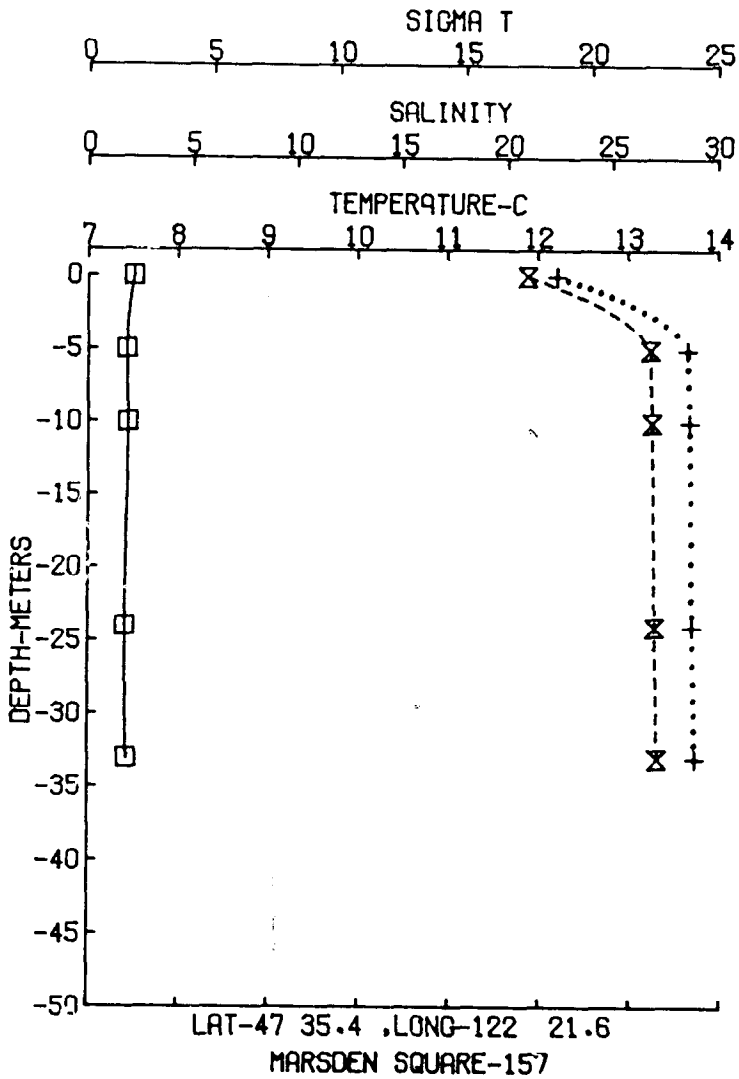
HYDRO REPORT FOR CR343 12- 8-76 TIME-23.2 HR GMT
STATION NO 19 CAST 1 LAT-47 35.9 LONG-122 21.6 MARSDEN SQUARE-157

DEPTH M	TEMP C	SALINITY O/OO	SIGMA-T	O XYGEN ML/L	OXYGEN MG-AT/L	OXYGEN O/O SATD	ADU
0	9.88	30.174	23.23	4.84	.432	74	.151
0	9.88	30.181	23.24	4.82	.431	74	.153
5	9.94	29.783	22.92	4.86	.434	74	.150
5	9.94	29.781	22.92	4.87	.435	74	.149
10	9.99	30.037	23.11	.00	.000	0	.000
10	9.99	30.029	23.10	4.58	.409	70	.174
41	9.96	30.151	23.20	4.56	.407	70	.175
41	9.96	30.150	23.20	4.54	.406	70	.177
50	9.98	30.178	23.22	4.43	.396	68	.186
50	9.98	30.180	23.22	4.33	.387	66	.195

GRAM HAS JUST LISTED HYDRO DATA ON THESIS FORMAT

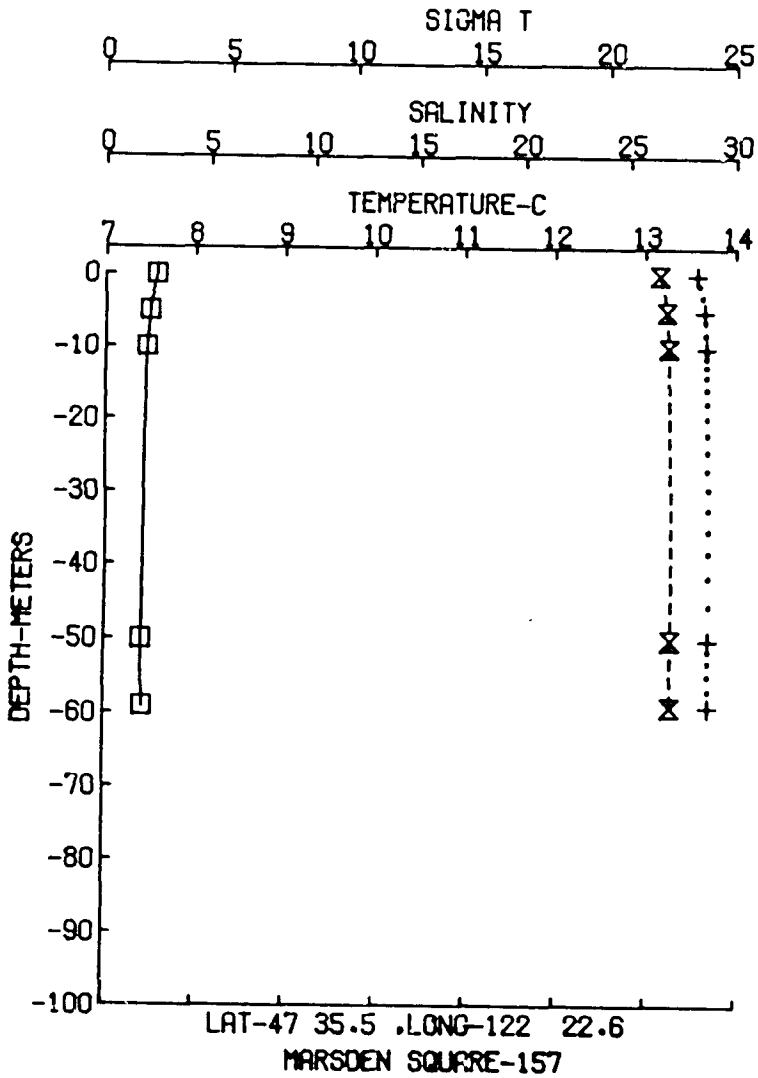
)

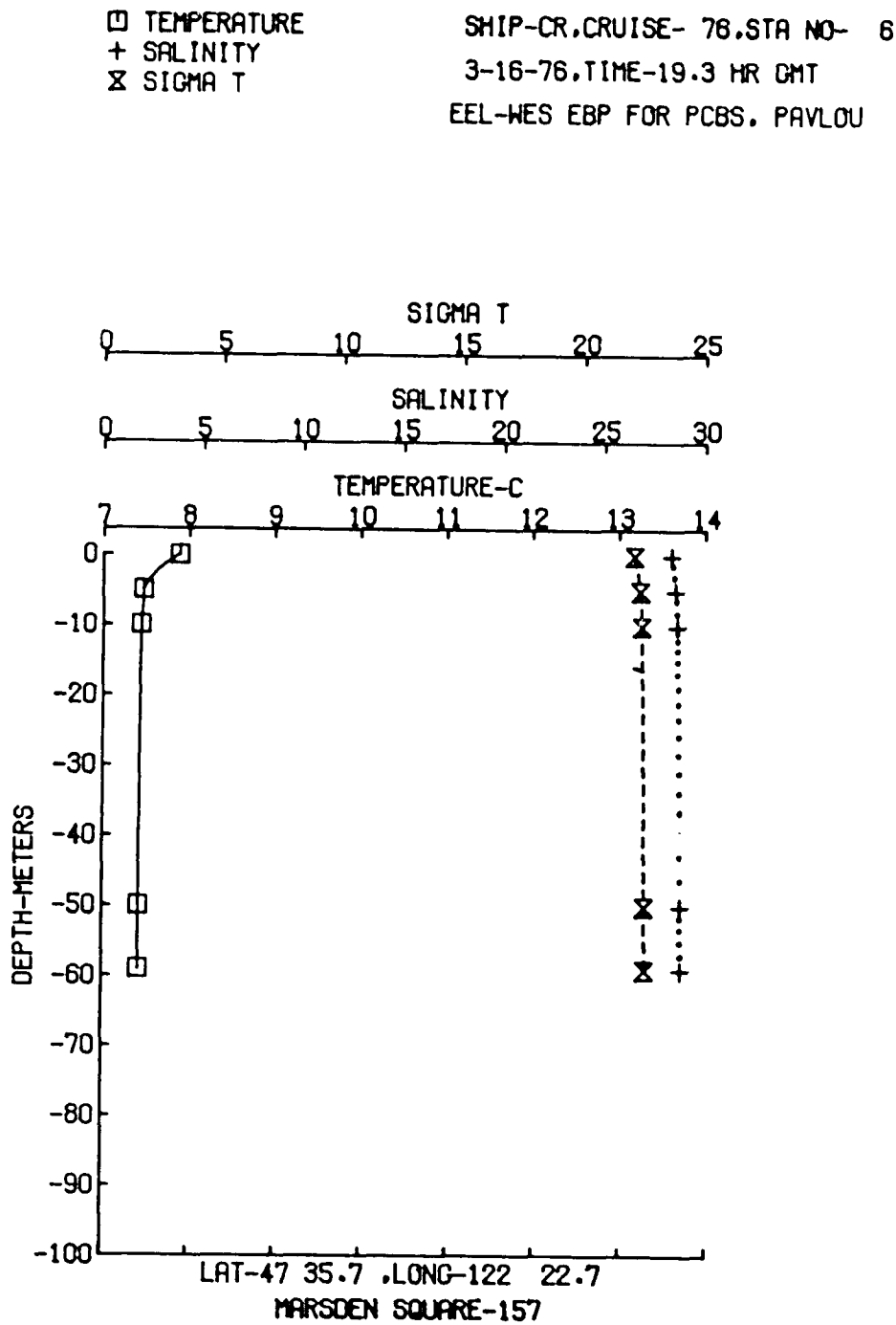

TEMP RATURE
SALINITY
SIGMA T
SHIP-CR.CRUISE- 76.STA NO- 19
3-16-76.TIME-15.1 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SAL NITY
0 5 10 15 20 2 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0
20
-30
40
-50
-60
-70
-80
-90
-100
LAT-47 35.9 .LONG-122 21.6
MARSDEN SQUARE-157

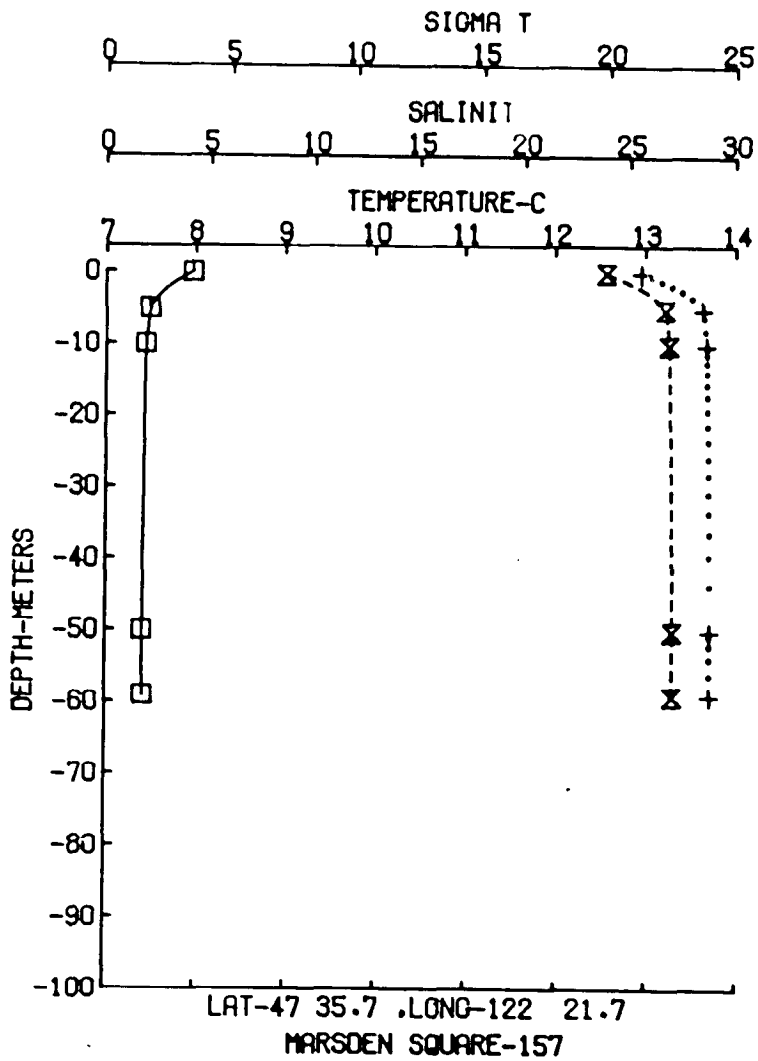

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE- 76,STA NO- 44
3-16-76,TIME-16.4 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.4 ,LONG-122 21.6
MARSDEN SQUARE-157

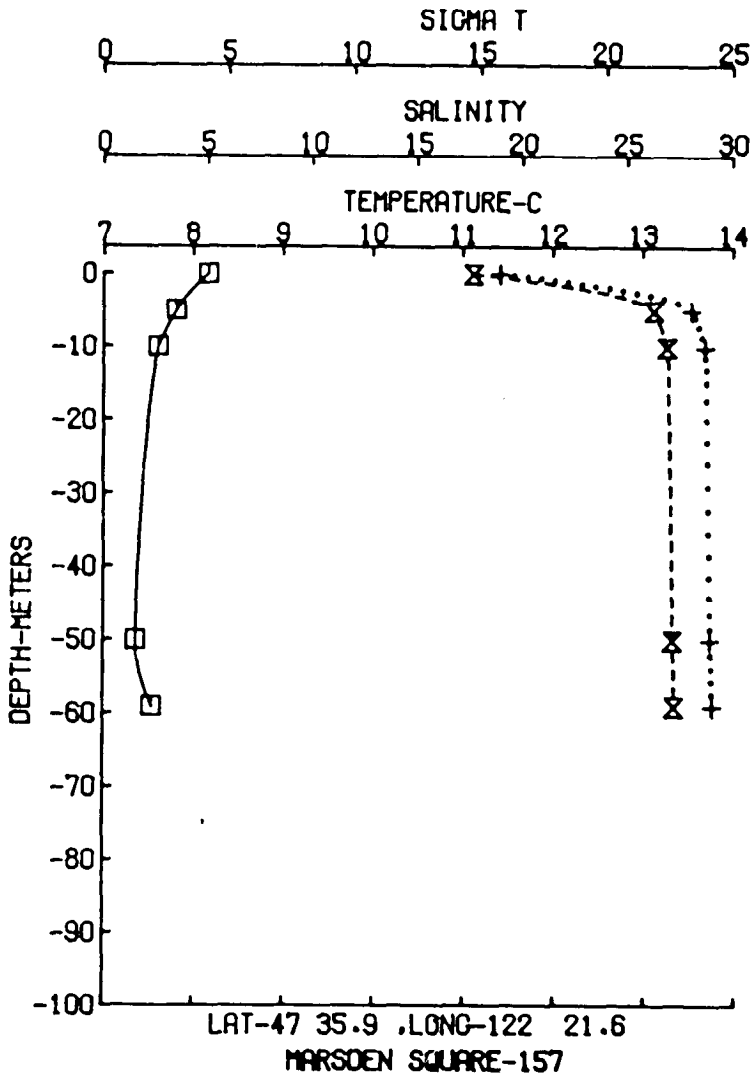
⊡ TEMPERATURE
+ SALINITY
⧖ SIGMA T

SHIP-CR.CRUISE- 76.STA NO- 17
3-16-76.TIME-17.6 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU



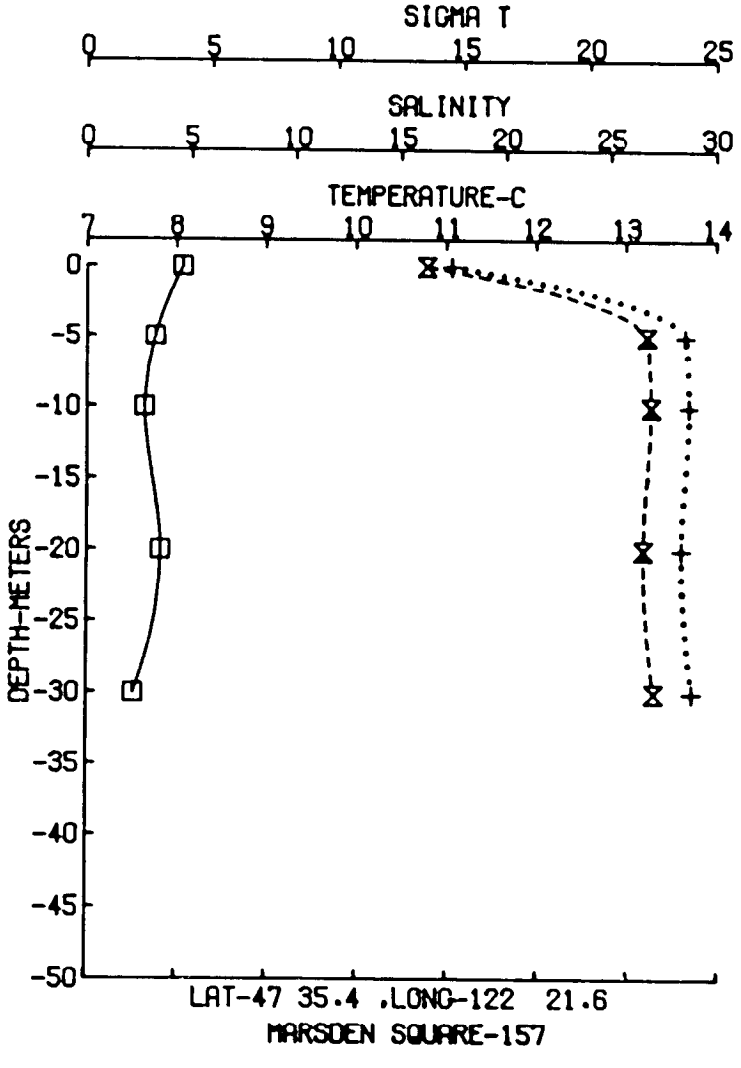

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE- 76,STA NO- 6
3-16-76,TIME-19.3 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 22.7
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE- 76,STA NO- 10
3-16-76,TIME-20.8 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINIT
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 21.7
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
SHIP-CR.CRUISE- 99.STA NO- 19
4- 8-76.TIME-16.7 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.9 ,LONG-122 21.6
MARSDEN SQUARE-157

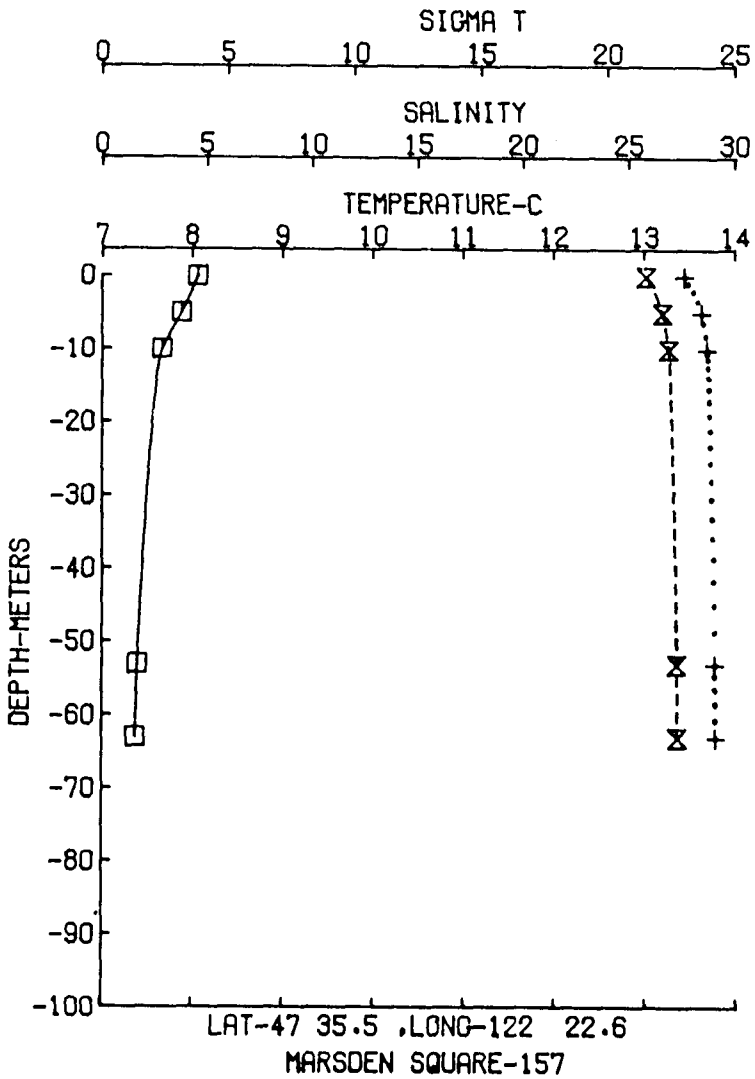
TEMPERATURE
SALINITY
SIGMA T

SHIP-CR.CRUISE- 99.STA NO- 44
4- 8-76.TIME-18.2 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU



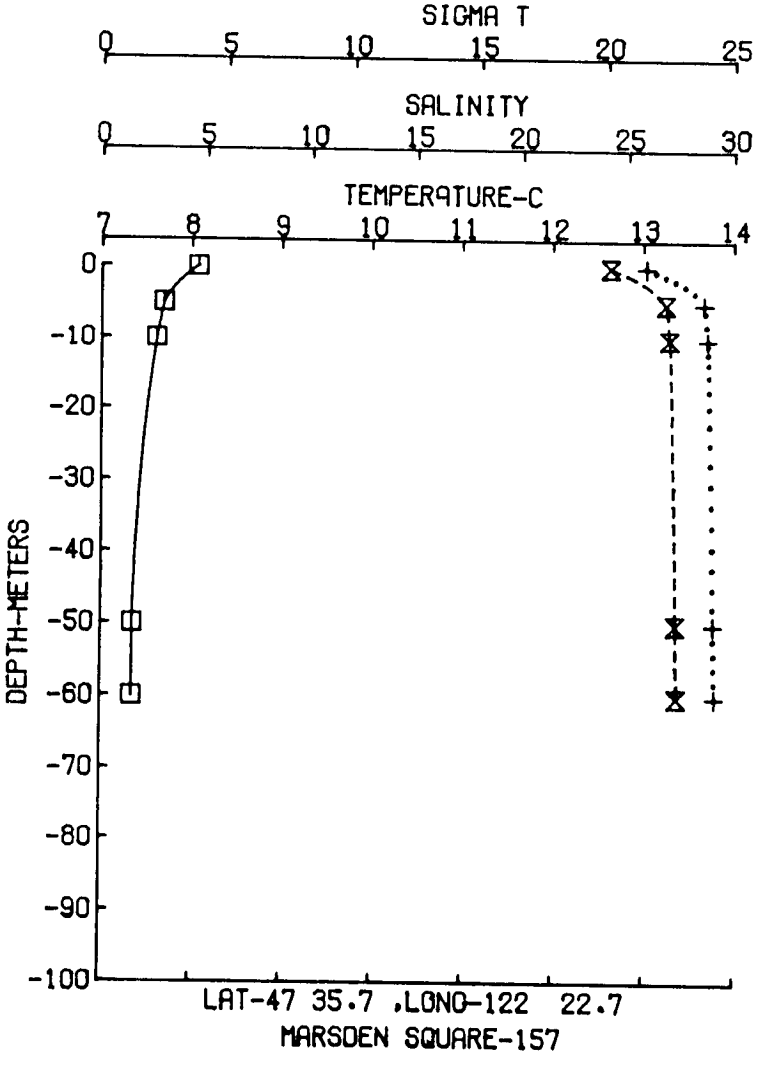
TEMPERATURE
SALINITY
SIGMA T

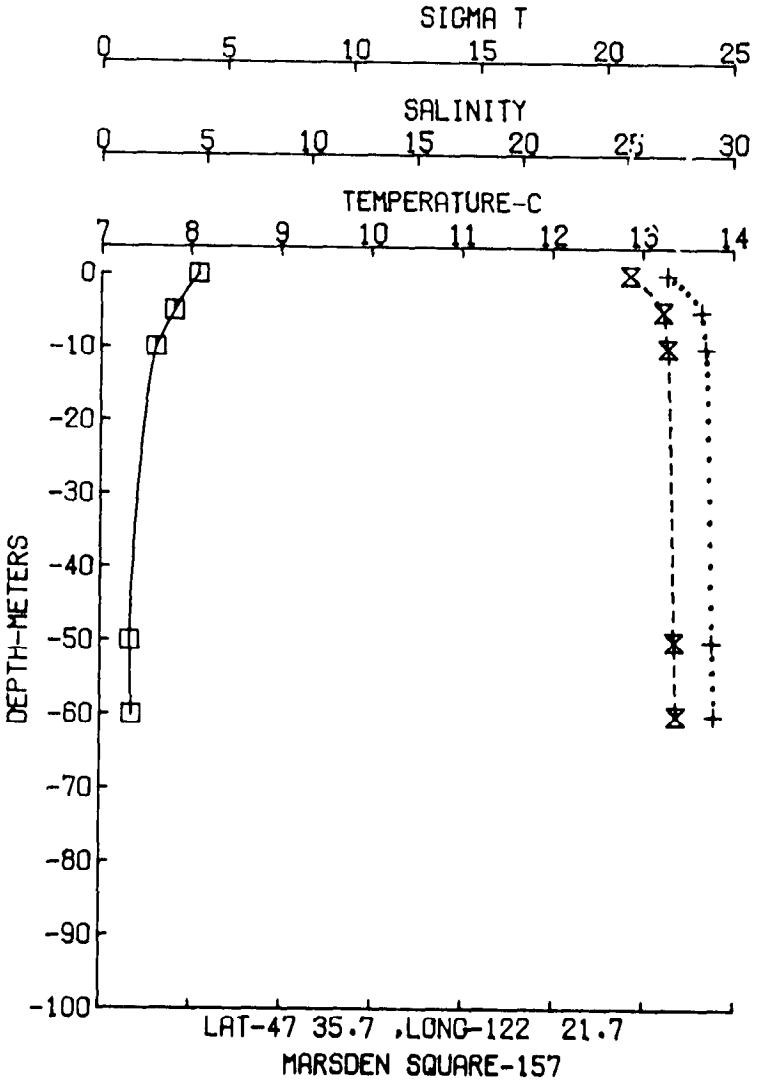
SHIP-CR,CRUISE- 99,STA NO- 17
4- 8-76,TIME-19.7 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU

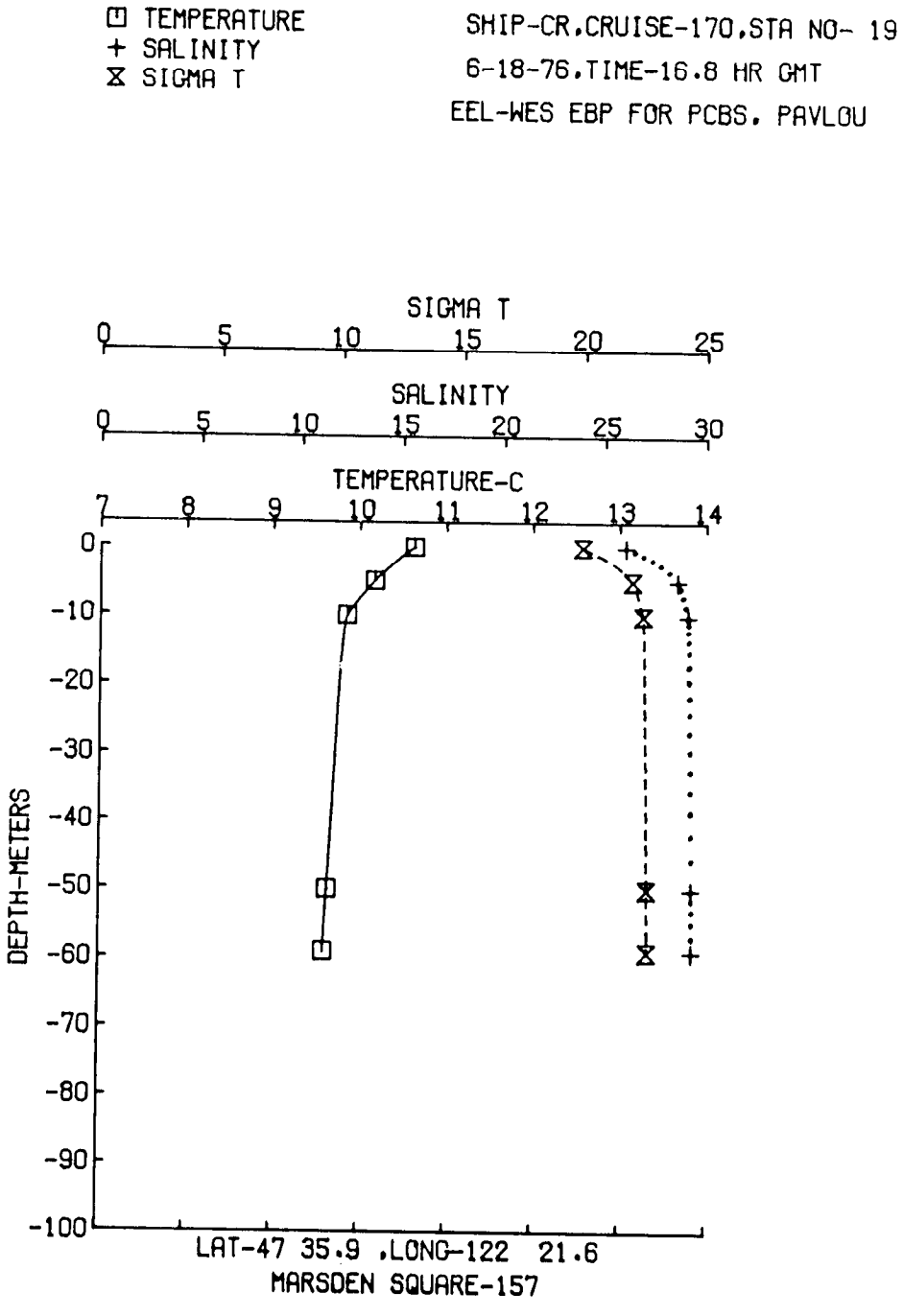


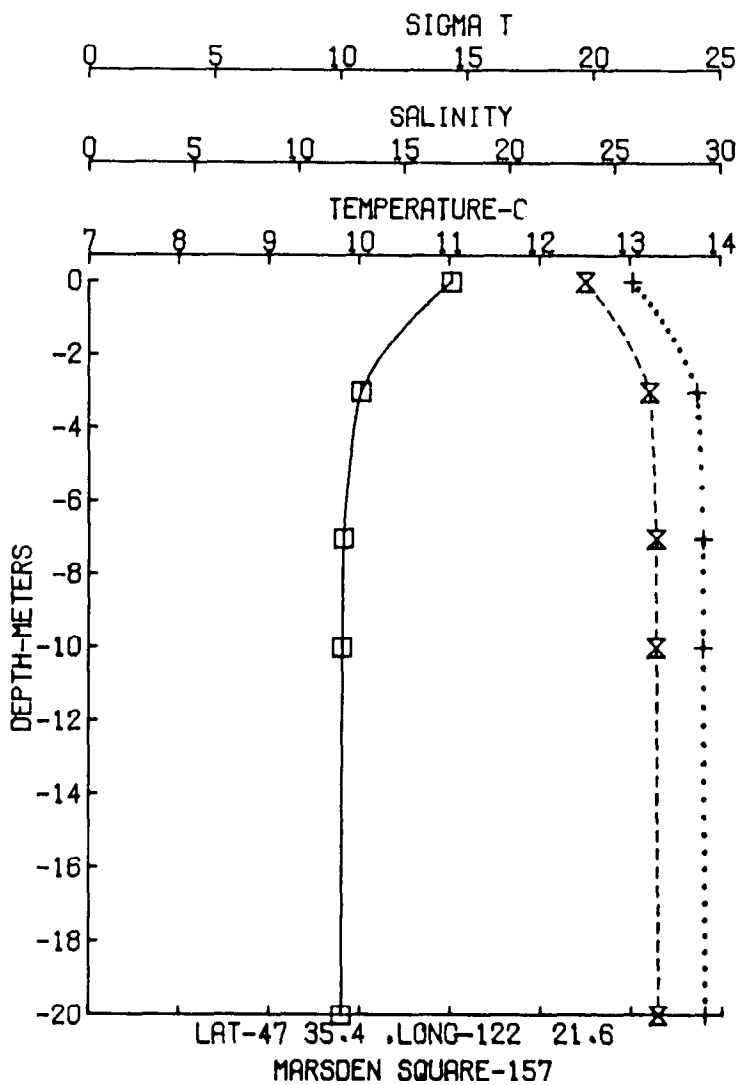
□ TEMPERATURE
+ SALINITY
⧖ SIGMA T

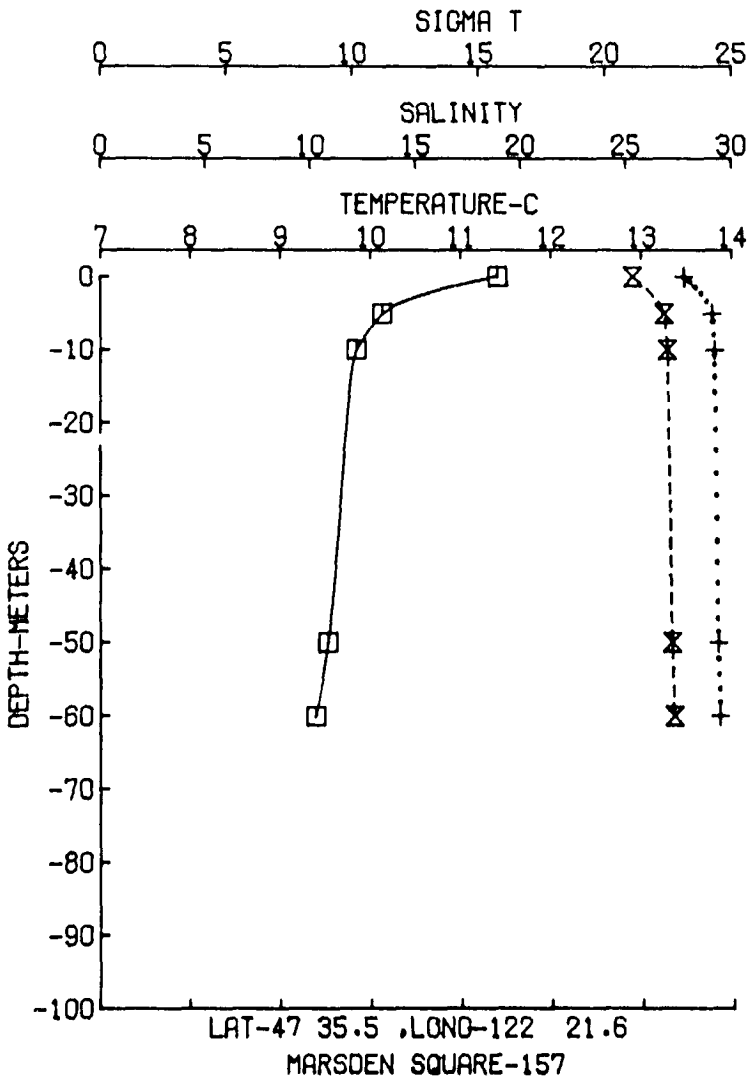
SHIP-CR,CRUISE- 99,STA NO- 6
4- 8-76,TIME-21.7 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU

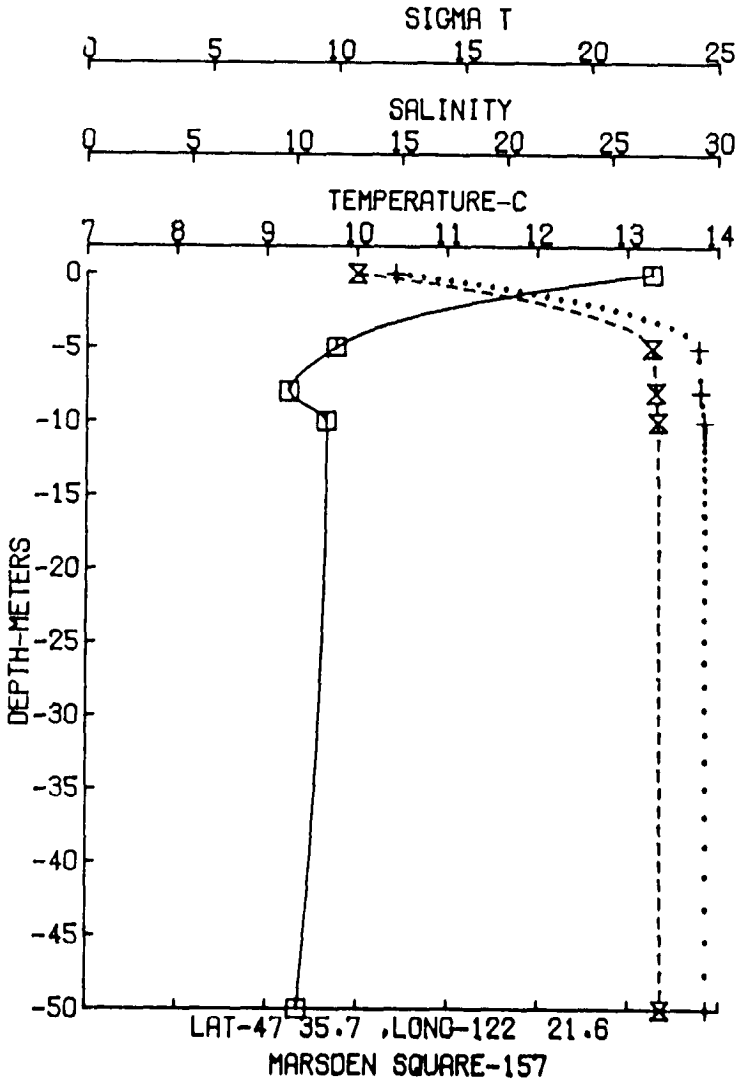


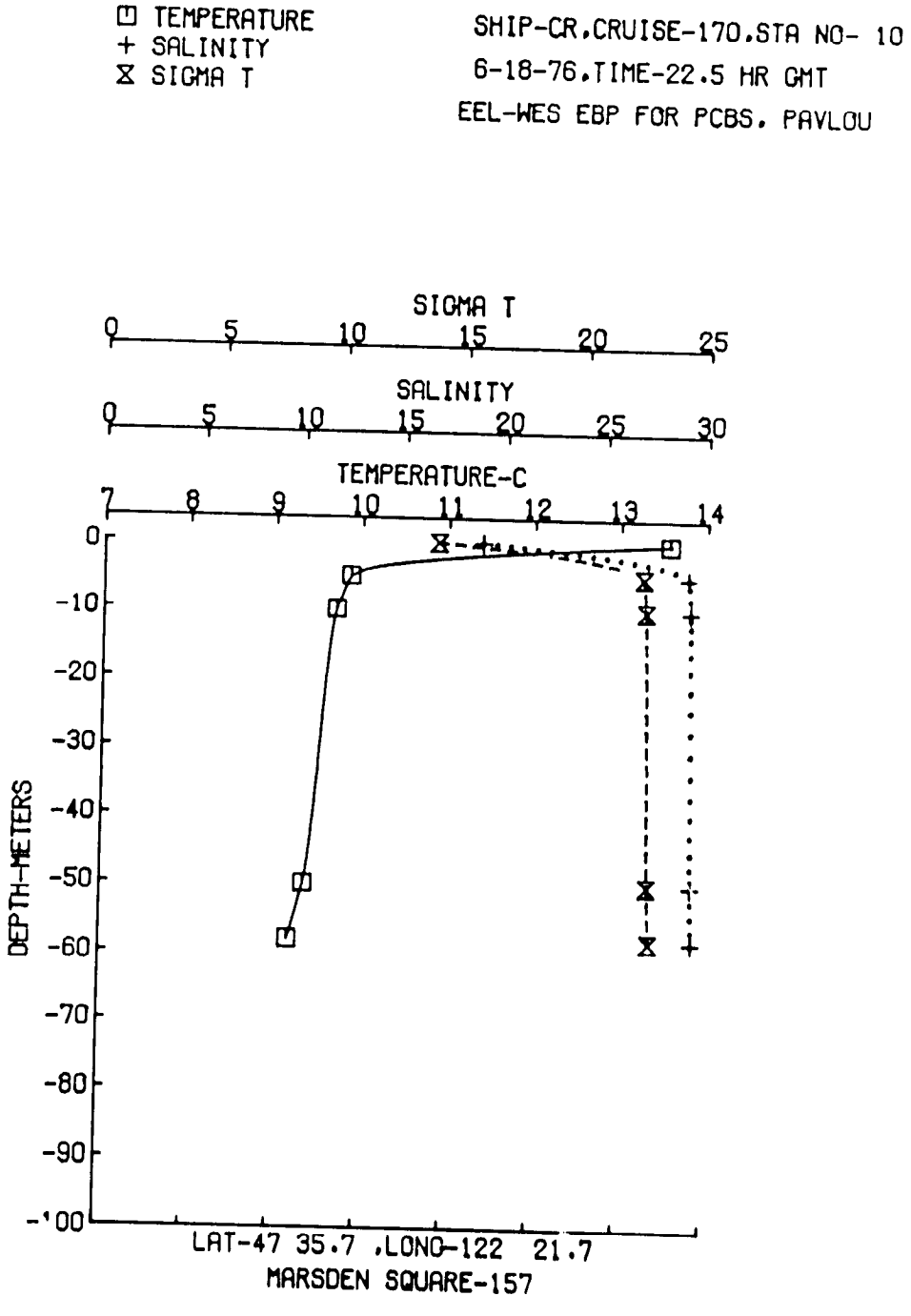

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR.CRUISE- 99.STA NO- 10
4- 8-76.TIME-22.9 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 21.7
MARSDEN SQUARE-157

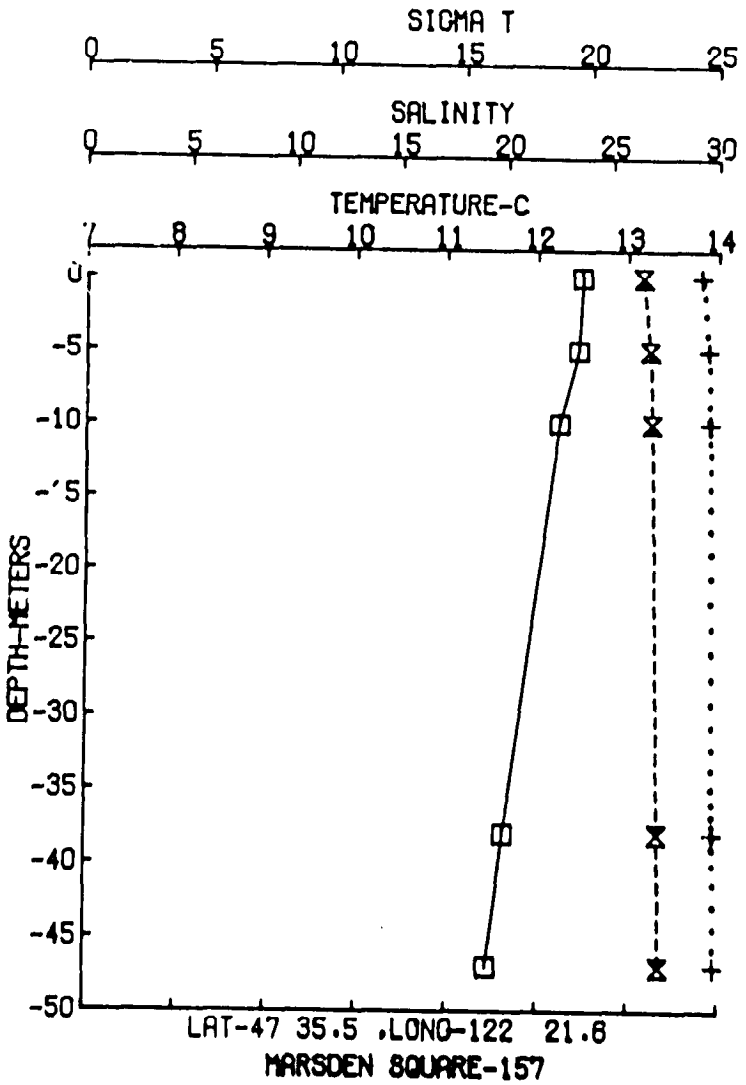

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-170,STA NO- 19
6-18-76,TIME-16.8 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.9 ,LONG-122 21.6
MARSDEN SQUARE-157

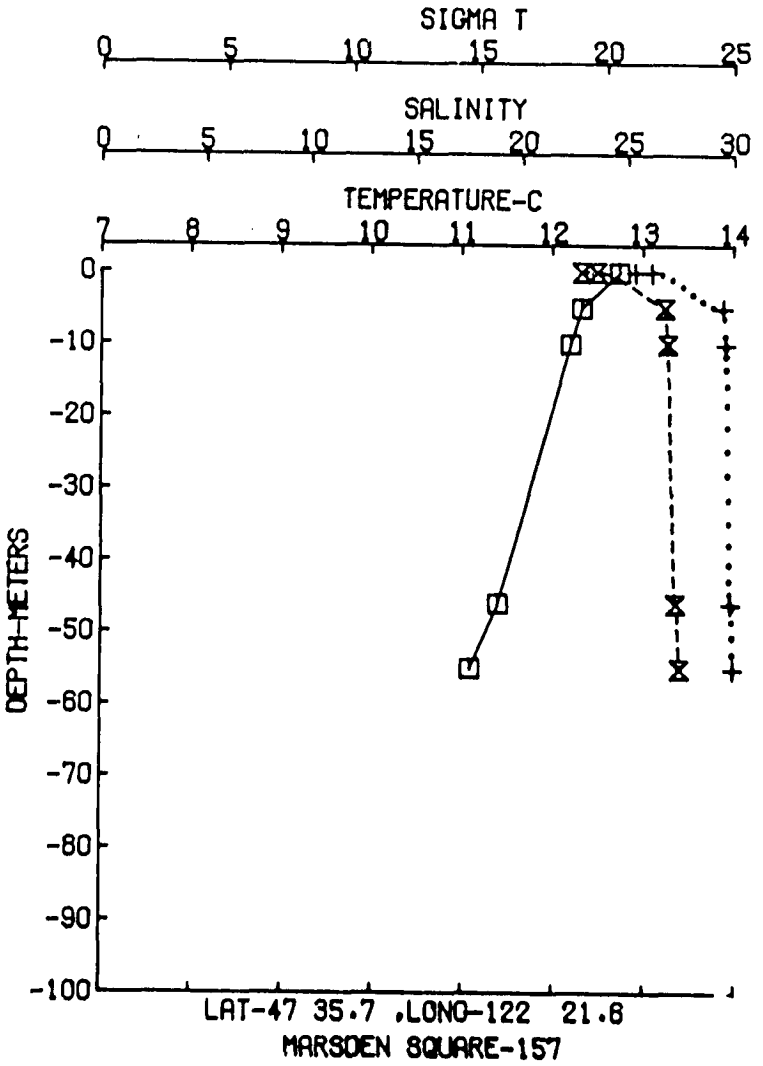

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-170,STA NO- 44
6-18-76,TIME-18.6 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -2 -4 -6 -8 -10 -12 -14 -16 -18 -20
LAT-47 35.4 ,LONG-122 21.6
MARSDEN SQUARE-157

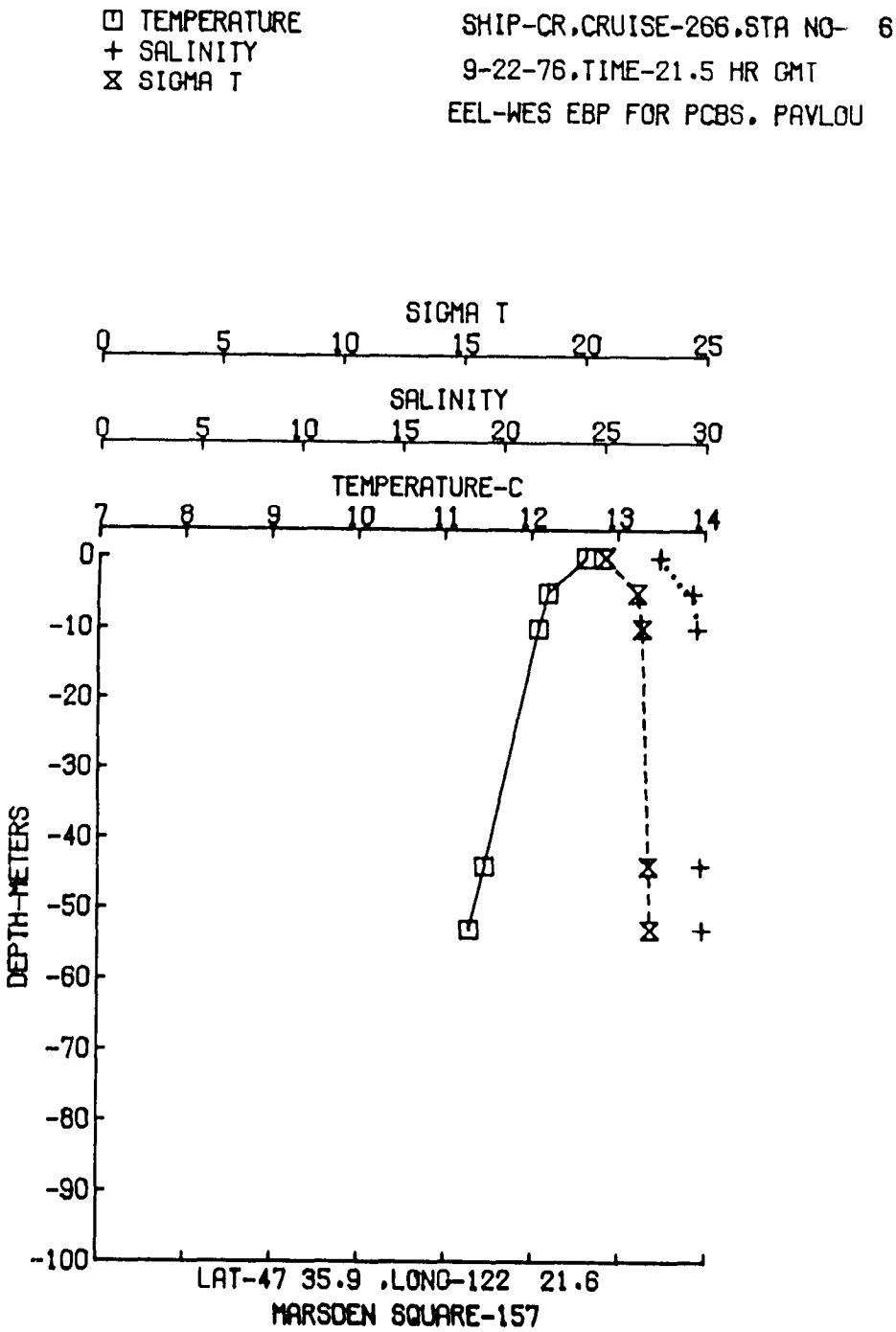

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-170,STA NO- 17
6-18-76,TIME-19.9 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.5 ,LONG-122 21.6
MARSDEN SQUARE-157

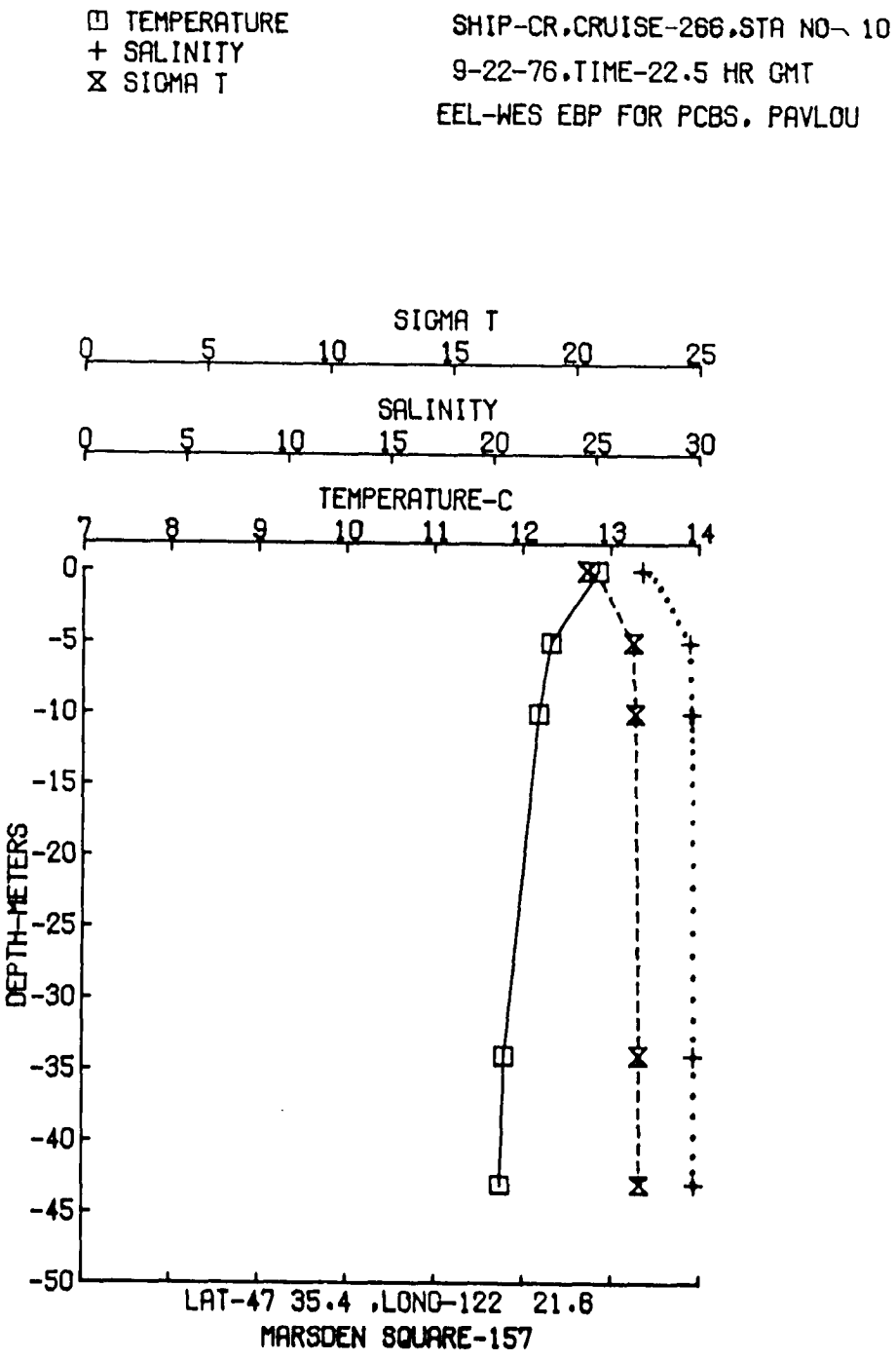

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-170,STA NO- 6
6-18-76,TIME-22.0 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.7 ,LONG-122 21.6
MARSDEN SQUARE-157

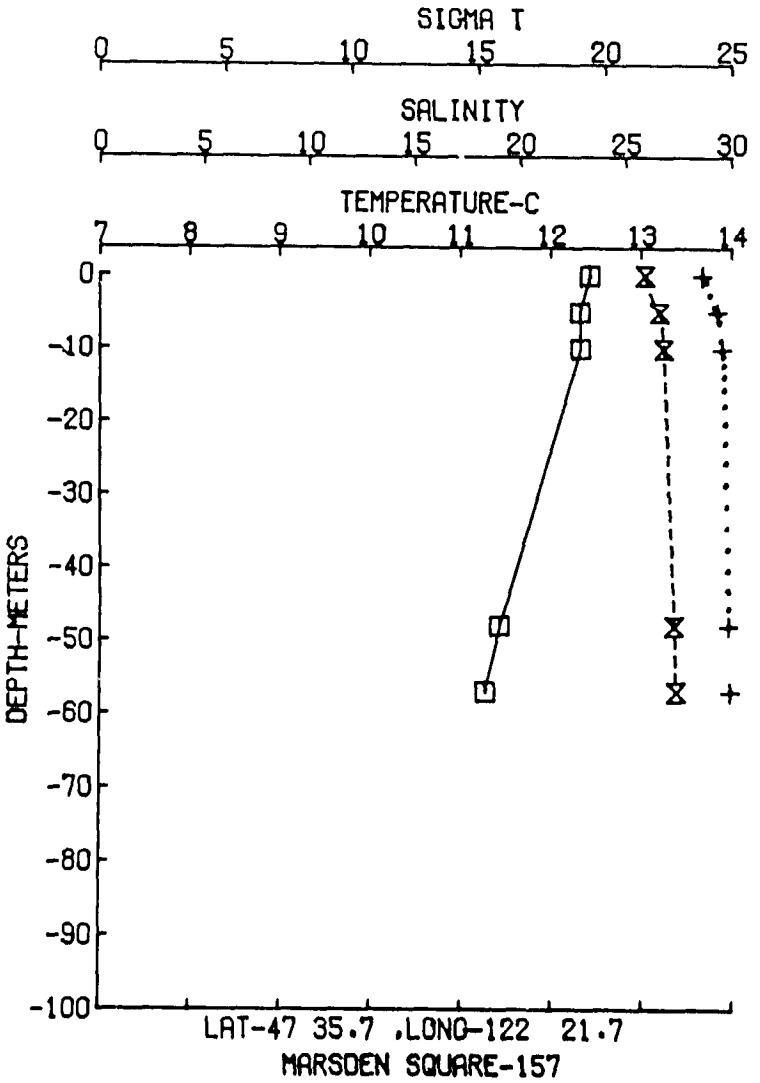

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR.CRUISE-170.STA NO- 10
6-18-76.TIME-22.5 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 21.7
MARSDEN SQUARE-157

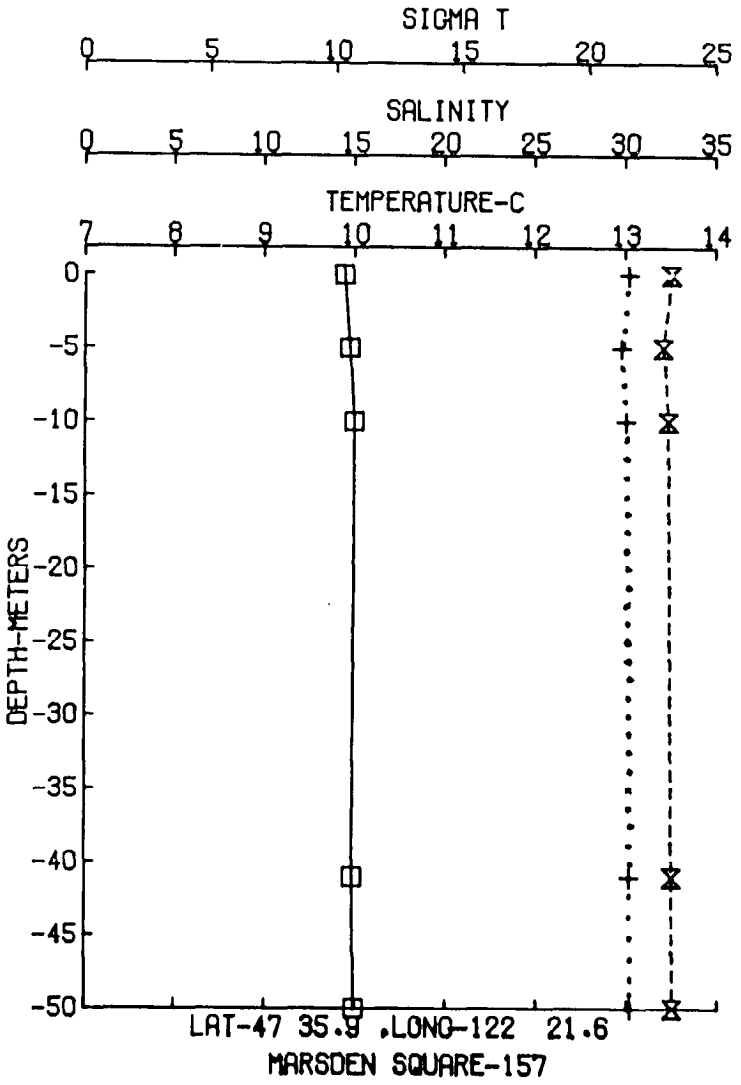

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-266,STA NO- 19
9-22-76,TIME-16.6 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.5 ,LONG-122 21.6
MARSDEN SQUARE-157

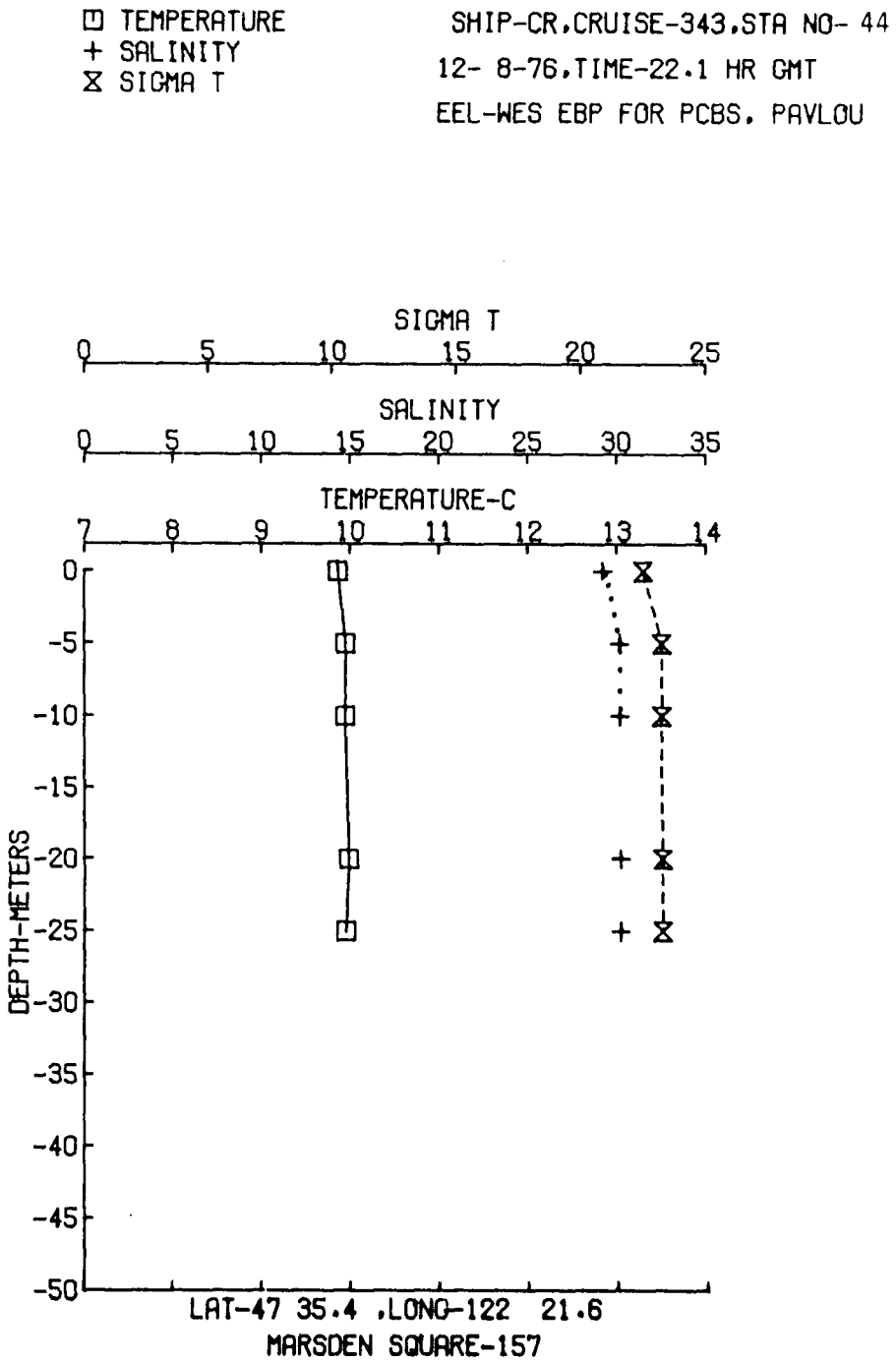

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-266,STA NO- 44
9-22-76,TIME-18.4 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 21.6
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-266,STA NO- 6
9-22-76,TIME-21.5 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.9 ,LONG-122 21.6
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-266,STA NO- 10
9-22-76,TIME-22.5 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.4 ,LONG-122 21.6
MARSDEN SQUARE-157

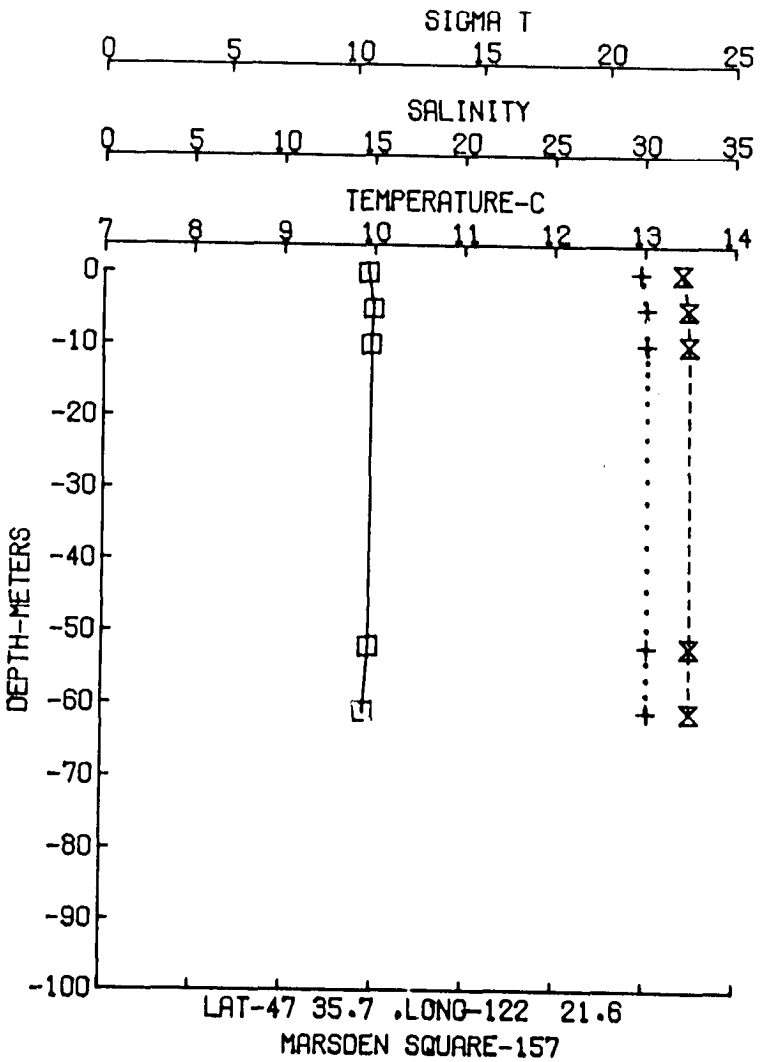

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-266,STA NO- 17
9-22-76,TIME-19.6 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.7 ,LONG-122 21.7
MARSDEN SQUARE-157

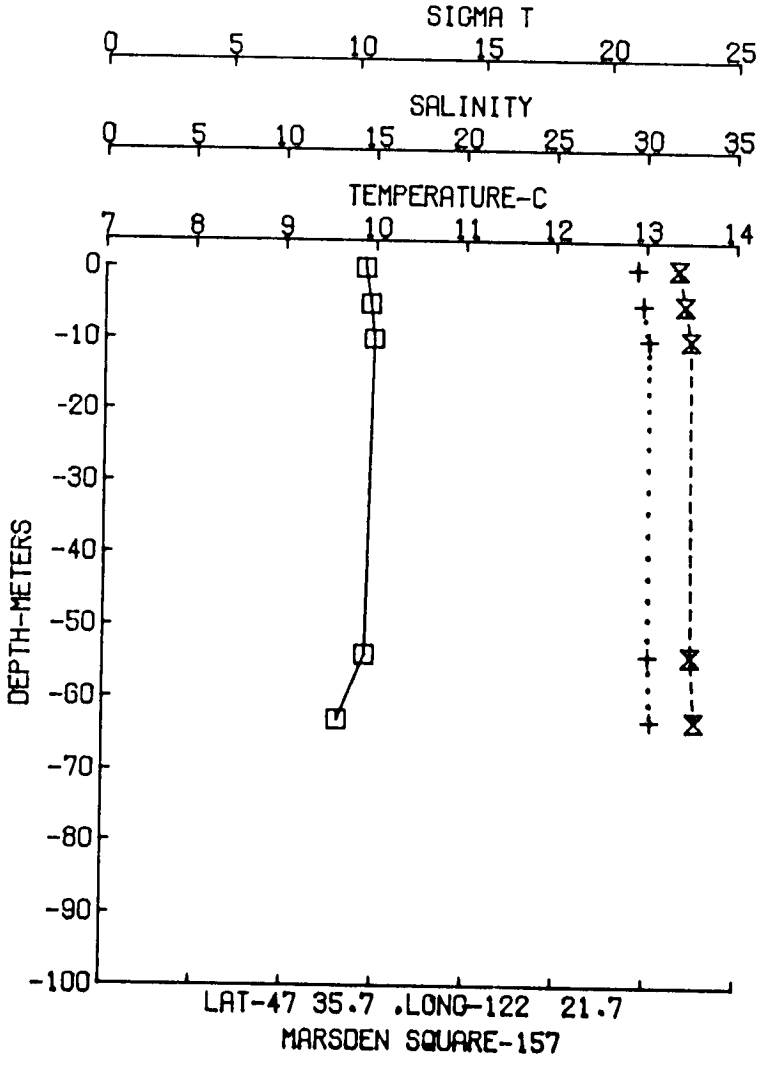

TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-343,STA NO- 19
12- 8-76,TIME-23.2 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30 35
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.9 ,LONG-122 21.6
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
SHIP-CR,CRUISE-343,STA NO- 44
12- 8-76,TIME-22.1 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30 35
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50
LAT-47 35.4 ,LONG-122 21.6
MARSDEN SQUARE-157

TEMPERATURE
SALINITY
SIGMA T

SHIP-CR,CRUISE-343,STA NO- 6
12- 8-76,TIME-16.7 HR GMT
EEL-WES EBP FOR PCBS, PAVLOU




TEMPERATURE
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SIGMA T
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12- 8-76,TIME-18.6 HR GMT
EEL-WES EBP FOR PCBS. PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30 35
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
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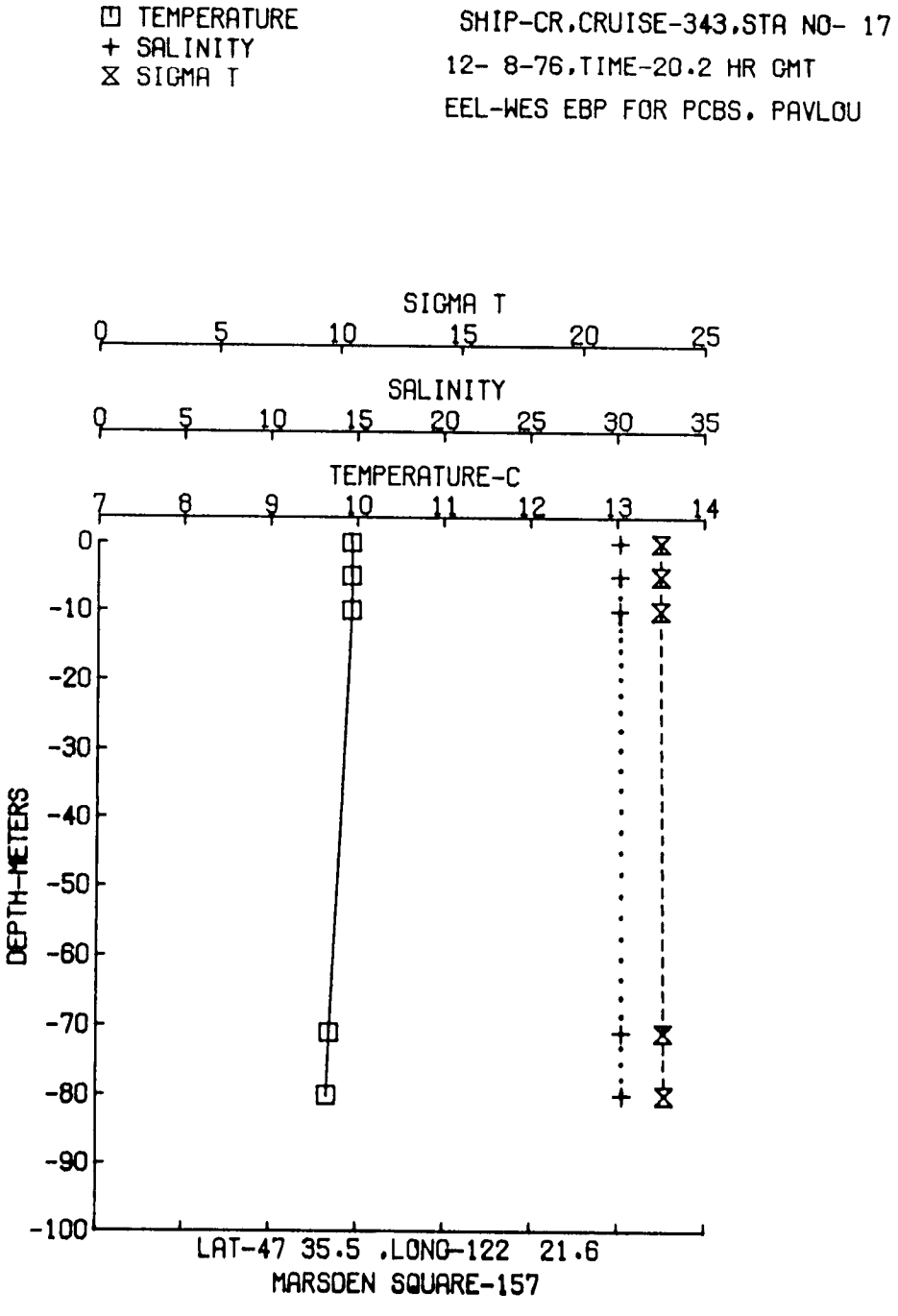
LAT-47 35.7 ,LONG-122 21.7
MARSDEN SQUARE-157


TEMPERATURE
SALINITY
SIGMA T
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EEL-WES EBP FOR PCBS, PAVLOU
SIGMA T
0 5 10 15 20 25
SALINITY
0 5 10 15 20 25 30 35
TEMPERATURE-C
7 8 9 10 11 12 13 14
DEPTH-METERS
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
LAT-47 35.5 ,LONG-122 21.6
MARSDEN SQUARE-157