Department of Natural Resources
MARYLAND GEOLOGICAL SURVEY
Kenneth N. Weaver, Director

BASIC DATA REPORT NO. 9

INTERSTITIAL WATER CHEMISTRY OF CHESAPEAKE BAY SEDIMENTS

By
Owen P. Bricker, Gerry Matisoff
and
George R. Holdren, Jr.

This study was prepared in cooperation with the Energy and Coastal Zone Administration and the Capital Programs Administration of the Maryland Department of Natural Resources.

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INTRODUCTION

The environment within the first hundred centimeters beneath the sediment-water interface in estuarine systems undergoes large scale chemical changes. Significant geochemical reactions occur between trapped interstitial waters and sediment particles in response to reducing conditions induced by biologically mediated oxidation of organic matter. Terrigeneous detrital material, stable in the oxidizing conditions of the subaerial weathering zone, is eroded and transported to the estuary via rivers and shoreline processes. Upon deposition and burial this material is exposed to anoxic conditions under which many of the detrital components are unstable and highly reactive.

As a result of the reactions that occur in the anoxic environment, the composition of the interstitial waters differs drastically from that of the overlying water column and a new assemblage of minerals, stable in anoxic conditions, is formed. Because of concentration differences between the interstitial fluids and the water column, steep concentration gradients develop in the upper zone of the sediment. The dissolved species in the more highly concentrated interstitial waters (e.g., nutrients, trace metals) tend to be transported across the sediment-water interface into the water column. Conversely, a reverse gradient exists for sulphate which is utilized in the sediments as an oxidant by sulphate reducing bacteria. The upper zone of the sediment is thus in active communication with the overlying water and may play an important role in mediating the chemistry of the estuary.

Little work has been done on the geochemistry of estuarine sediments and even less on their interstitial fluids. In 1971, we began a program to systematically investigate the sediment-interstitial water system of the Chesapeake Bay and the role that the sediment reservoir plays in the chemistry of this estuary. The program was begun by the senior author while he was associated with the Chesapeake Bay Institute. Funding was provided by the United States Atomic Energy Commission from 1971-1975 (AT(11-1)-3292). In 1975, the program became a part of the Maryland Geological Survey Chesapeake Bay Earth Science Study. The data tabulated here were collected by the senior author and his graduate students. It represents the most complete and well documented set of data on estuarine interstitial water chemistry that we are aware of at this time. Various aspects of these data have been treated by Bray, 1973; Bray, *et al.*, 1973; Troup, 1974; Troup, *et al.*, 1974; Bricker and Troup, 1975; Troup and Bricker, 1975; Holdren, *et al.*, 1975; Matisoff, *et al.*, 1975; Holdren, 1977; Holdren and Bricker, 1977; Matisoff, 1977; and Goldberg, *et al.*, 1977.

We publish the full set of data here because other investigators may find it a useful steppingstone towards an understanding of the chemistry of the estuarine environment.

ACKNOWLEDGMENTS

This work was supported by the United States Atomic Energy Commission (AT(11-1)-3292) and the Department of Natural Resources of the State of Maryland. We appreciate the effort and support of all of those who participated in collecting and analyzing the samples: Virginia Grant, Mary E. Uhlfelder, John Bray, Bruce Troup, Peter Kaerk, Ruth Braun, Betsy Daniel, Joseph Frazido, David Given, John Ferguson, Jerry Gavis, the crew of the R/V *Warfield,* the crew of the R/V *Maury,* and the personnel of the CBESS program.

METHODS

Cruise and Cruise Designations

The data were collected on cruises conducted on the R/V *Ridgely Warfield* and the R/V *Maury*. Table I lists the stations, the dates on which they were visited, and the cruise designations for each sampling. The stations occupied for this study are shown in Figure 1. The stations are located as far north as 927, near the mouth of the Susquehanna River, and as far south as 724-R, located between the York and Rappahannock rivers.

The sampling grid chosen was such that both the lateral and axial changes of the pore water chemistry of Bay sediments could be investigated. As a result, many of the stations were sampled only once during the course of the study. However, so that seasonal changes in the pore water chemistry could also be investigated, many stations were visited several times.

The system used to identify stations within the Chesapeake Bay in this work is the standard system employed by the Chesapeake Bay Institute of The Johns Hopkins University, Baltimore, Maryland. This alpha-numeric system is quoted below:

"Each Chesapeake Bay station is identified according to a numeric-alphabetic system based on the geographic location of the station. The station is indexed by its latitude and longitude.

"A station designation consists of three numbers and up to two letters. The three numbers give the north latitude of the station to the nearest minute omitting the tens digit of the degrees. For a station at latitude 37°35′30″N, the three numbers in the station designator would be 736, rounding 35′30″ to 36.

"Letters following the numbers indicate a station's east-west position in minutes relative to a base line which more or less bisects the Bay. For latitudes below 38°10′30″, this line is defined as the north-south line 76°10′W; for latitudes 38°10′30″ and above, the line is defined as 76°20′W. Stations to the west (east) of the appropriate base line are labeled from the base line A, B, . . .M, AA, BB, . . .MM (N, O, . . .Z, NN, OO, . . .ZZZ). The distance between successive letters being one minute of longitude, stations located within ½ minute of the base line have no alphabetic suffix.

"For example, a station located at latitude 36°57′16″N and longitude 76°05′45″W would have a station designation of 657Q, and a station located at latitude 38°42′52″N and longitude 76°24′15″W would have a station designation of 843D."

Sample Collection

Sediment samples were collected by means of a Benthos gravity corer. Cellulose-butyrate-acetate core liners (7.0 cm i.d.) were used to contain the sediment during sample retrieval. Core samples

between 100 and 150 cm in length were usually obtained. Two cores were collected at each station. The first core was used to make a physical description of the sediment. Interstitial water samples were expressed from sediments obtained from the second core.

Beginning with cruise GIW XVI, the interstitial water samples were protected against oxidation during sampling except for the Sea Dog series. The core was sealed as it was brought on deck. The liner was held in an upright position until sampling procedures began. In sampling, the overlying water was siphoned off, filtered, and saved for later analysis. The air space produced above the sediment was minimized by pushing the sediment to within a few inches of the top of the core liner, and for some samples this space was then flushed with nitrogen gas. The upper end of the liner was then inserted into a glove box which had been previously flushed with nitrogen gas. All subsequent sample handling procedures were conducted in the glove box to minimize any oxygen contamination (Bray, *et al.*, 1973; Troup, *et al.*, 1974).

The sediment was extruded from the core liner directly into Reeburgh-type sediment squeezers (Reeburgh, 1967). Large gradients in the pore water concentrations of many dissolved species exist in the top 10 cm of the sediment column (Bray, 1973; Troup, 1974). Consequently, this portion of the core was sampled at 2 cm intervals. The remainder of the core was sampled at depths of approximately 15, 25, 40, 60, and 95 cm below the sediment-water interface. Pore waters were expressed through 0.22 μm membrane filters (Millipore) in the squeezing process. The first 10 ml aliquot of interstitial water collected from each sample was used for the potentiometric determination of pH, Eh, and sulfide. Then 3 mls of water were squeezed directly into reagents for ferrous iron analysis. The balance of the water collected was expressed into 2 oz ($\sim$65 ml) acid-cleaned polyethylene bottles. Subsamples for the phosphate analysis were removed from this bulk sample while the water was still under the protection of the nitrogen atmosphere. Subsamples for the alkalinity, chloride, silicate, and ammonium determinations were removed from the bottles after the bottles had been taken from the glove box. Samples were stored in an onboard refrigerator after the extraction process had been completed. Upon return to the shore-based laboratory, the remaining sample was acidified to a pH between 1.5 and 2.0 with double distilled ($\sim$5.6N) HCl. Acidified samples were used for the determination of manganese and, in some cases, dissolved organic carbon.

Extraction operations during these cruises were conducted at laboratory temperature on the ship. The authors are aware of the temperature effects caused by allowing the core samples to equilibrate with the ambient laboratory temperature during the pore water extraction procedure (Mangelsdorf, *et al.*, 1969; Bischoff, *et al.*, 1970; and Fanning and Pilson, 1971). However, large seasonal fluctuations in the temperature of the Bay waters generate thermal gradients in the top meter of the sediment column which can be as great as 7°C/meter (Bray, unpubl. data; Matisoff, 1977). The gradients are highly variable. Therefore, squeezing sediments at their *in situ* temperatures is an extremely difficult operation. To minimize the effects, processing of the samples was generally begun as soon as the core was brought onboard ship. Typically, fifteen minutes would elapse between the collection of the core and the squeezing of the first sample. The whole extraction operation was normally completed within two and one-half hours from the time of collection. This time is in contrast to the hour or more that cores were allowed to remain at a warmer temperature before the sampling procedures were initiated in the studies cited above.

Sampling procedures were slightly different for the Sea Dog series. Two cores were collected for interstitial water study. The first was processed in the manner described above, except that only about 5 ml of pore water was collected (squeeze method). The second method consisted of subcoring a gravity core with 5 ml plastic syringes which had the head cut off. The pore waters were then expressed mechanically through in-line filters, and about 2-3 mls of water was collected by the syringe method. The time for processing a core using these methods was reduced to about 20-30 minutes and greatly reduced the temperature effect of sampling.

Analytical Methods

The analytical methods used in this study are listed in Table II. The methods are taken from standard handbooks of sea water analysis, for the most part. Certain modifications of these techniques were occasionally necessary to bring the optimum range of the method in line with the concentrations of the species normally found in anoxic pore waters. Discussion of these modifications and of the interferences for each analysis are given in the references listed in Table II.

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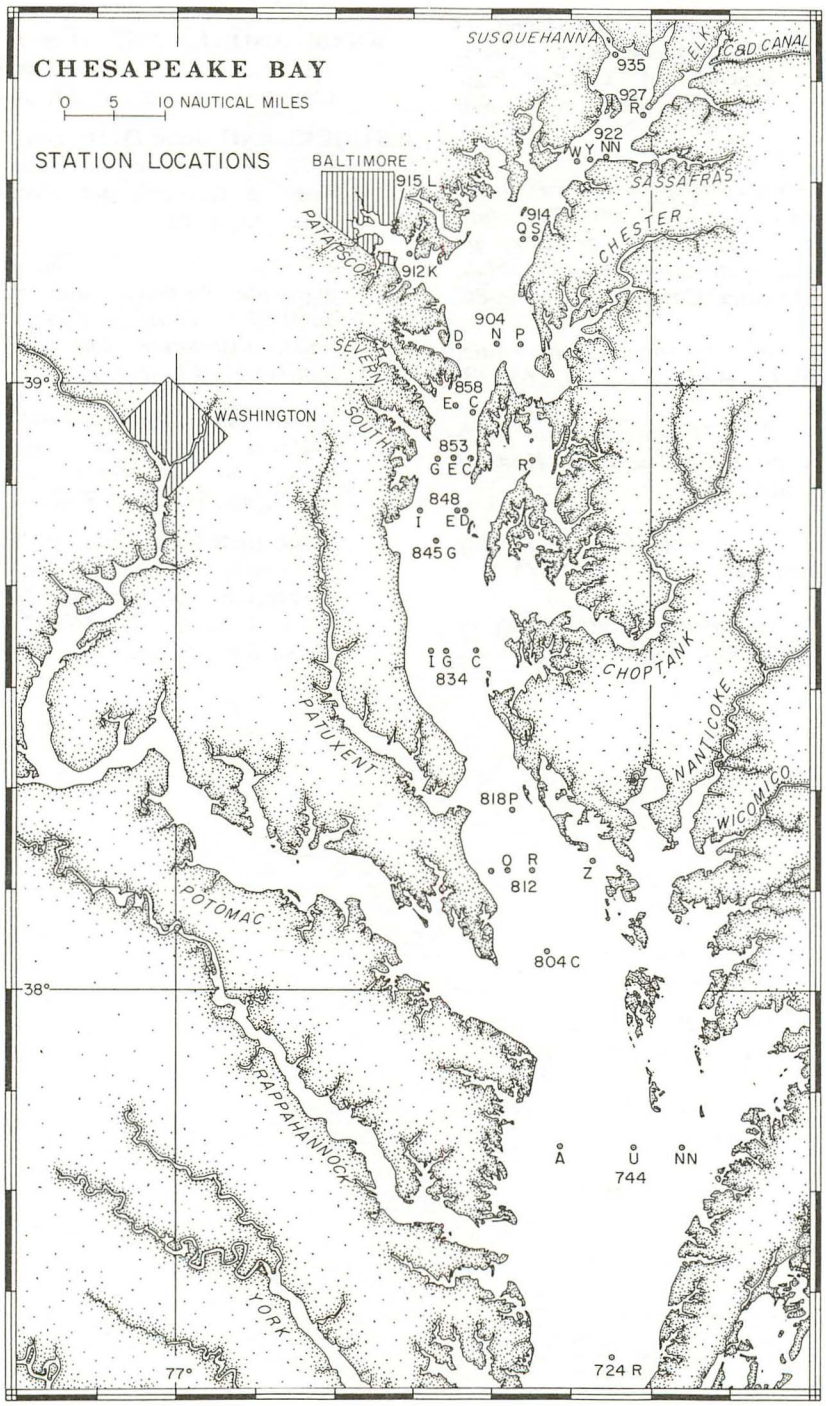

Figure 1.

MAP OF STATION LOCATIONS

TABLE I

List of cruises, dates and stations occupied from which the data for this study was collected.

CRUISE	DATE	STATIONS OCCUPIED
CFD I	26 May 1971	856E, 856-3, 856-4, 856-6, 856-7
CFD II	30 Jun 1971	856E, 856C
CFD III	30 Aug 1971	856E, 856C
CFD IV	27-28 Sep 1971	856E, 856C (2 cores)
GIW V	25-28 Oct 1971	856E, 856C (6 cores)
GIW VI	22-24 Nov 1971	856E (4 cores), 856C
GIW VII	20 Dec 1971	856E, 856C
GIW VIII	16-19 Jan 1972	856E, 856F, 856C, 856-7, 856B
GIW IX	22-24 Feb 1972	856E, 856C (2 cores)
GIW X	14-15 Mar 1972	856E (2 cores), 856C (2 cores)
GIW XI	29 Mar 1972	856E, 856C
GIW XII	27-28 Apr 1972	856E, 856C
GIW XIII	24-26 May 1972	856E, 856C (2 cores)
GIW XIV	26-27 Jun 1972	856E, 856C
GIW XV	17-19 Jul 1972	856E, 856C, 845G, 834G, 818P
GIW XVI	15-22 Aug 1972	922Y, 914S, 904N, 856E, 856C, 853R, 845G, 834G, 818S, 804C, 744A, 724R
GIW XVII	18-19 Dec 1972	904N, 856C
CBASS I	18-19 Jun 1973	926S, 856C, 724R
CBASS II	25-28 Sep 1973	927RR, 919T, 904N, 856C, 848E, 834G, 818P, 804C, 744A, 724R
CBASS III	17-20 Dec 1973	922Y, 922W, 922NN, 914Q, 914C, 914S, 904D, 904N, 904P, 848D, 848F, 848I

TABLE I--Cont'd.

CRUISE	DATE	STATIONS OCCUPIED
CBASS IV	26-28 Mar 1974	834C, 834F, 834I, 813Z, 812, 812-O, 812R, 744U, 744B, 744NN
GOOP I	17-19 Apr 1974	912K, 915L, 904N (5 cores), 854C (2 cores)
CBASS V	14-16 May 1974	853C (5 cores), 853E (5 cores), 853G (4 cores)
CBASS VI	1-2 Sep 1974	922Y, 904N, 858C
CBASS VII	13-14 May 1975	914S, 858C (2 cores), 834G, 812S, 747A
Sea Dog I	1 Oct 1976	914S, 858C
Sea Dog II	31 Oct 1976	858C, 848E
Sea Dog III	4 Dec 1976	914S, 858C
Sea Dog IV	6 Jan 1977	858C, 848E
Sea Dog V	9 Feb 1977	914S, 858C
Sea Dog VI	9 Mar 1977	858C
Sea Dog VII	8 Apr 1977	914S, 858C
Sea Dog VIII	17 May 1977	858C, 848E
Sea Dog IX	8 Jun 1977	914S, 858C
Sea Dog X	9 Jul 1977	858C, 848E
Sea Dog XI	10 Aug 1977	914S, 858C
Sea Dog XII	9 Sep 1977	858C, 848E

TABLE II

List of analytical methods used in this study. The method, estimated precision on multiple cores, and the reference for the technique used are listed for each species.

PARAMETER	METHOD	PRECISION	REFERENCE
pH	potentiometric*	± 0.05	
Eh	potentiometric*	± 20 mv	
sulfate	ion exchange-titration	± 15%	Dollman, 1968
sulfide	potentiometric*	± 15%	
alkalinity	titration	± 1%	
chloride	Fajan's titration	± 1%	Miyake, 1939
phosphate	colorimetric	± 10%	Murphy & Riley, 1962 Bray, 1973
iron	colorimetric	± 10%	Sandell, 1959 Troup, 1974
manganese	AAS	± 10%	
ammonia	colorimetric	± 15%	Solorzano, 1969
DOC	oxidation-IR	± 5ppm	
silicate	colorimetric	± 10%	Strickland & Parson, 1972

* Potentiometric Measurements - Electrodes used

pH	Orion 91-01-00 Laboratory pH electrode
Eh	Beckman-thimble-type platinum electrode
sulfide	Orion solid state membrane sulfide ion electrode
reference	Orion 90-02-00 Double-junction reference electrode

TABLE III

INTERSTITIAL WATER DATA

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E #2	0	0.0-0.0	--	--	--	--	--	--	--	--	0.6	89	20
	1	0.0-2.0	--	--	--	--	--	--	--	--	1.4	426	235
38°56'38"	2	4.0-6.0	--	--	--	--	--	--	--	--	25.8	292	417
76°24'56"	3	9.0-11.0	--	--	--	--	--	--	--	--	80.4	445	450
	4	14.0-16.0	--	--	--	--	--	--	--	--	220.0	620	557
Cr: CFD I	5	27.0-32.0	--	--	--	--	--	--	--	--	325.0	1070	610
	6	74.0-79.0	--	--	--	--	--	--	--	--	271.0	1740	602
26/V/71													
Station 856-3	0	0.0-0.0	--	--	--	--	--	--	--	--	0.6	53	15.0
	1	2.0-4.0	--	--	--	--	--	--	--	--	75.0	134	438.0
38°56'32"	2	7.0-9.0	--	--	--	--	--	--	--	--	167.0	589	447.0
76°23'57"	3	12.0-14.0	--	--	--	--	--	--	--	--	255.0	895	503.0
	4	19.0-22.0	--	--	--	--	--	--	--	--	298.0	1100	528.0
Cr: CFD I	5	31.0-36.0	--	--	--	--	--	--	--	--	340.0	1360	600.0
	6	49.0-54.5	--	--	--	--	--	--	--	--	380.0	1600	638.0
26/V/71													
Station 856-4	0	0.0-0.0	--	--	--	--	--	--	--	--	1.4	0	15
	1	0.0-2.0	--	--	--	--	--	--	--	--	4.7	5	288
38°56'02"	2	4.5-9.0	--	--	--	--	--	--	--	--	59.4	191	425
76°24'09"	3	20.0-24.0	--	--	--	--	--	--	--	--	229.0	761	503
	4	37.5-42.0	--	--	--	--	--	--	--	--	341.0	1550	552
Cr: CFD I													
26/V/71													

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856-6	1	0.0-3.5	--	--	--	--	--	--	--	--	26.3	2	403
	2	6.0-8.0	--	--	--	--	--	--	--	--	195.	690.	557
38°54'07"	3	11.5-14.5	--	--	--	--	--	--	--	--	242.	706.	652
76°23'33"	4	19.0-22.0	--	--	--	--	--	--	--	--	338.	1000.	587
	5	32.5-39.0	--	--	--	--	--	--	--	--	477.	1440.	595
Cr: CFD I	6	59.5-67.0	--	--	--	--	--	--	--	--	557.0	2270.	564
26/V/71													
Station 856-7	0	0.0-0.0	--	--	--	--	--	--	--	--	2.8	93	65.0
	1	0.0-5.0	--	--	--	--	--	--	--	--	--	311	--
38°54'43"	2	5.0-10.0	--	--	--	--	--	--	--	--	--	980	--
76°22'48"													
Cr: CFD I													
26/V/71													
Station 856E	0	0.0-0.0	--	--	--	--	--	--	--	--	--	--	--
	1	0.0-2.0	--	--	--	--	--	--	--	--	3.3	67	223.0
38°56'38"	2	4.0-6.0	--	--	--	--	--	--	--	--	4.6	132	395.0
76°24'56"	3	8.0-10.0	--	--	--	--	--	--	--	--	38.9	--	436.0
	4	12.0-14.0	--	--	--	--	--	--	--	--	--	175	439.0
Cr: CFD I	5	19.5-25.0	--	--	--	--	--	--	--	--	273.0	900	560.0
	6	35.0-40.0	--	--	--	--	--	--	--	--	319.0	1090	567.0
26/V/71													

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E	0	0.0-0.0	--	--	--	26.6	2.20	253.8	13.6	--	7.2	nd	168.0
	1	2.0-4.0	7.60	--	--	21.0	5.60	236.1	41.5	--	123.0	378.	343.0
38°56'38"	2	4.0-5.5	--	--	--	19.8	4.80	227.2	96.7	--	162.0	304.	385.0
76°24'56"	3	5.5-7.5	7.55	--	--	17.4	6.40	224.4	28.8	--	154.0	458.	425.0
	4	7.5-10.0	7.62	--	--	14.6	11.00	231.0	5.0	--	262.0	782.	595.0
Cr: CFD II	5	10.0-12.0	7.59	--	--	10.0	15.60	239.4	--	--	385.0	1260.	700.0
	6	12.0-15.0	7.78	--	--	4.0	20.00	247.2	--	--	480.0	1770.	760.0
30/VI/71	7	25.0-29.0	7.94	--	--	1.0	24.00	250.4	--	--	420.0	1970.	592.0
	8	40.0-45.0	7.91	--	--	0.7	24.30	255.0	10.0	--	342.0	2000.	562.0
	9	60.0-65.0	7.78	--	--	0.6	26.50	259.8	12.2	--	338.0	2360.	547.0
	10	80.0-86.0	7.79	--	--	0.5	28.00	258.0	10.4	--	296.0	2610.	635.0
Station 856C	0	0.0-0.0	7.43	--	--	29.8	0.40	283.8	10.0	--	8.8	57.	100.0
	1	0.0-2.5	7.32	--	--	24.5	3.60	277.0	--	--	83.6	354.	305.0
38°56'12"	2	2.5-4.5	7.19	--	--	22.1	5.70	272.8	8.4	--	139.0	521.	438.0
76°23'20"	3	4.5-6.5	7.18	--	--	22.5	5.90	271.6	--	--	104.0	517.	415.0
	4	6.5-9.0	7.30	--	--	20.4	7.80	272.6	9.7	--	179.0	663.	507.0
Cr. CFD II	5	9.0-11.0	7.46	--	--	18.9	8.80	273.7	--	--	266.0	850.	535.0
	6	15.5-17.0	--	--	--	8.5	14.20	284.2	--	--	264.0	1360.	649.0
30/VI/71	7	27.0-31.0	7.76	--	--	7.3	19.90	293.8	--	--	392.0	1690.	691.0
	8	45.0-50.0	7.70	--	--	1.6	23.20	295.2	--	--	422.0	2160.	707.0
	9	70.0-74.5	7.45	--	--	0.5	24.80	295.3	29.7	--	337.0	2500.	726.0
	10	110.0-116.0	7.68	--	--	0.3	27.20	295.0	--	--	231.0	2610.	768.0
Station 856E	0	0.0-0.0	--	--	--	21.2	1.30	203.1	--	--	1.2	34.	53.6
	1	0.0-2.0	7.38	--	--	17.7	6.70	212.3	22.0	--	66.0	530.	349.0
38°56'38"	2	2.0-4.0	7.20	--	--	16.7	5.10	203.2	174.0	--	146.0	371.	537.0
76°24'56"	3	4.0-6.0	7.46	--	--	14.8	8.30	207.2	40.7	--	121.0	547.	594.0
	4	6.0-7.0	7.42	--	--	12.4	11.30	215.7	19.4	--	226.0	825.	602.0
Cr: CFD III	5	7.0-9.0	--	--	--	11.0	13.10	224.3	19.4	--	253.0	749.	608.0
	6	11.0-19.0	7.52	--	--	5.4	19.20	239.8	10.4	--	317.0	1220.	629.0
11/VIII/71	7	19.0-32.0	7.76	--	--	0.6	24.80	247.9	8.0	--	358.0	1830.	604.0
	8	32.0-56.0	7.52	--	--	0.5	29.70	249.1	37.3	--	355.0	2200.	--
	9	60.5-80.5	7.74	--	--	0.6	30.30	250.8	63.8	--	366.0	2530.	614.0
	10	110.0-140.0	7.52	--	--	0.6	29.20	256.0	52.4	--	354.0	2270.	804.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C	0	0.0-0.0	--	--	--	24.3	1.80	243.4	--	--	1.6	nd	58.7
	1	0.0-2.0	7.15	--	--	25.4	3.10	244.9	7.1	--	2.9	132.	198.0
38°56'12"	2	3.0-5.0	7.71	--	--	20.5	4.90	255.4	8.9	--	89.0	299.	430.0
76°23'20"	3	5.0-6.0	7.39	--	--	5.2	9.30	267.9	8.0	--	376.0	862.	798.0
	4	6.0-9.0	7.19	--	--	5.3	13.80	274.2	1.4	--	512.0	1110.	897.0
Cr: CFD III	5	9.0-10.0	7.27	--	--	4.1	18.20	285.8	2.8	--	420.0	1340.	933.0
	6	18.0-27.0	7.31	--	--	0.4	30.30	293.5	0.5	--	448.0	2740.	791.0
11/VIII/71	7	30.0-42.0	7.12	--	--	0.6	33.60	295.5	12.0	--	530.0	3520.	790.0
	8	45.0-61.0	7.02	--	--	0.5	35.80	295.7	162.0	--	470.0	4280.	758.0
	9	65.0-85.0	7.00	--	--	0.3	36.90	294.5	356.0	--	156.0	4840.	741.0
	10	91.0-121.0	6.90	--	--	0.4	37.90	293.2	210.0	--	7.4	5200.	518.0
Station 856C #1	0	0.0-0.0	7.30	--	--	29.4	3.00	290.5	--	--	--	--	49.2
	1	0.0-2.0	7.18	--	--	21.7	8.80	--	--	--	--	--	461.0
38°56'12"	2	2.0-3.5	--	--	--	25.4	8.30	296.2	--	--	--	--	363.0
76°23'20"	3	3.5-5.0	7.12	--	--	7.8	19.90	295.5	--	--	--	--	713.0
	4	5.0-7.0	7.12	--	--	5.5	23.20	292.2	--	--	--	--	725.0
Cr: CFD IV	5	7.0-9.0	7.80	--	--	5.6	22.90	289.7	--	--	--	--	697.0
	6	14.5-17.0	7.25	--	--	9.4	20.30	285.0	--	--	--	--	723.0
27/IX/71	7	24.5-28.5	7.40	--	--	5.4	23.10	288.9	--	--	--	--	680.0
	8	39.0-44.0	7.50	--	--	0.7	29.50	299.7	--	--	--	--	--
	9	62.0-67.0	7.22	--	--	0.3	29.90	296.5	--	--	--	--	734.0
	10	87.0-92.5	7.16	--	--	0.3	32.30	297.3	--	--	--	--	672.0
Station 856E	0	0.0-0.0	6.81	--	--	25.5	2.20	248.0	--	--	17.5	nd	53.5
	1	0.0-5.0	7.33	--	--	15.9	7.90	232.4	31.7	--	176.0	383.	530.0
38°56'38"	2	5.0-7.0	7.30	--	--	12.8	10.70	226.6	49.7	--	290.0	469.	618.0
76°24'56"	3	7.0-9.0	7.25	--	--	9.4	12.60	226.1	50.5	--	322.0	618.	684.0
	4	9.0-11.0	7.51	--	--	8.9	13.30	228.9	30.1	--	311.0	727.	620.0
Cr: CFD IV	5	11.0-12.0	7.41	--	--	6.8	15.30	227.2	13.8	--	325.0	847.	673.0
	6	17.0-21.0	7.60	--	--	5.4	17.70	236.0	7.4	--	206.0	1170.	560.0
27/IX/71	7	27.0-31.0	7.70	--	--	3.2	20.30	246.4	3.7	--	206.0	1360.	575.0
	8	40.0-46.0	7.72	--	--	0.7	23.50	247.2	2.5	--	229.0	1500.	509.0
	9	57.0-63.0	7.50	--	--	0.5	24.40	248.4	78.2	--	237.0	1830.	556.0
	10	81.0-87.0	7.42	--	--	0.4	26.00	248.6	59.5	--	237.0	1910.	547.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #1	0	0.0-0.0	7.38	--	--	30.2	2.50	288.5	11.9	--	25.6	nd	73.8
	1	0.0-2.0	7.24	--	--	20.1	10.50	290.8	10.4	--	197.0	1090.	391.0
38°56'12"	2	2.0-4.0	7.35	--	--	19.1	10.50	293.0	6.1	--	232.0	406.	558.0
76°23'20"	3	4.0-6.0	7.32	--	--	12.3	15.60	294.3	2.1	--	360.0	905.	666.0
	4	6.0-8.0	7.30	--	--	5.4	21.10	296.2	24.9	--	483.0	1380.	765.0
Cr: CFD IV	5	8.0-9.0	7.22	--	--	2.5	24.00	294.0	3.7	--	520.0	1620.	794.0
	6	15.0-18.0	7.25	--	--	0.6	30.10	292.1	5.1	--	585.0	2810.	735.0
28/IX/71	7	25.0-29.0	7.05	--	--	0.4	32.60	294.5	41.1	--	610.0	3500.	769.0
	8	39.0-44.0	6.92	--	--	0.3	35.10	295.0	79.1	--	570.0	4210.	740.0
	9	62.0-68.0	6.92	--	--	0.3	37.20	295.4	431.0	--	336.0	4930.	714.0
	10	94.0-100.0	6.82	--	--	0.2	39.30	293.8	951.0	--	175.0	5870.	633.0
Station 856E	0	0.0-0.0	--	--	--	26.0	1.30	258.7	31.4	--	5.1	28.	32.0
	1	0.0-1.5	7.22	--	--	21.6	4.40	254.2	15.3	--	38.8	380.	276.0
38 56'38"	2	1.5-4.5	7.02	--	--	17.3	5.80	244.4	5.9	--	103.0	895.	435.0
76 24'56"	3	4.5-6.5	7.10	--	--	10.7	10.40	231.0	8.6	--	144.0	495.	474.0
	4	6.5-8.5	6.95	--	--	8.2	13.60	229.8	8.6	--	203.0	1155.	593.0
Cr: GIW V	5	8.5-10.0	--	--	--	5.9	16.00	229.7	3.8	--	220.0	1020.	608.0
	6	10.0-13.5	7.29	--	--	4.7	17.60	230.9	8.8	--	287.0	1160.	462.0
25/X/71	7	22.5-26.0	7.53	--	--	0.8	22.90	239.7	2.5	--	267.0	1430.	458.0
	8	36.5-40.0	7.31	--	--	0.6	24.70	245.1	9.0	--	332.0	1640.	422.0
	9	59.0-62.0	6.85	--	--	0.6	25.70	245.8	38.6	--	222.0	1930.	420.0
	10	86.5-89.0	--	--	--	0.6	27.50	248.2	5.6	--	249.0	1940.	412.0
Station 856C #1	0	0.0-0.0	7.37	--	--	30.5	2.80	298.9	--	--	2.2	nd	22.1
	1	0.0-2.0	7.42	--	--	23.2	9.00	299.5	18.3	--	208.0	450.	480.0
38°56'12"	2	2.0-3.5	7.36	--	--	18.5	13.30	301.0	22.4	--	334.0	875.	626.0
76°23'20"	3	3.5-5.5	7.26	--	--	15.7	16.80	294.5	5.7	--	323.0	1020.	568.0
	4	5.5-7.5	6.46	--	--	13.8	18.40	291.8	6.7	--	354.0	1130.	634.0
Cr: GIW V	5	7.5-10.0	--	--	--	11.8	18.50	288.8	7.1	--	192.0	1020.	601.0
	6	10.0-12.5	7.08	--	--	8.5	20.60	289.6	9.6	--	456.0	1140.	779.0
26/X/71	7	20.5-25.0	7.10	--	--	0.7	29.30	290.7	6.7	--	586.0	2310.	739.0
	8	35.0-40.0	7.01	--	--	0.6	34.30	294.0	32.5	--	564.0	3500.	781.0
	9	69.0-75.0	6.82	--	--	0.2	38.60	295.2	36.7	--	252.0	5050.	727.0
	10	94.0-100.0	6.79	--	--	0.2	40.70	294.6	56.0	--	163.0	5900.	692.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #7	0	0.0-0.0	7.10	--	--	--	2.10	292.0	--	--	--	--	24.3
	1	0.0-1.5	7.22	--	--	--	3.30	295.2	--	--	--	--	373.0
38°56'12"	2	1.5-3.0	7.44	--	--	--	4.60	291.1	--	--	--	--	332.0
76°23'20"	3	4.0-5.5	7.20	--	--	--	8.80	291.0	--	--	--	--	576.0
	4	5.5-7.5	7.08	--	--	--	9.60	288.2	--	--	--	--	572.0
Cr: GIW V	5	7.5-10.0	7.32	--	--	--	10.90	285.9	--	--	--	--	575.0
	6	13.5-15.5	7.30	--	--	--	11.90	282.9	--	--	--	--	670.0
28/X/71	7	20.0-23.5	7.43	--	--	--	13.20	283.9	--	--	--	--	679.0
	8	34.5-39.5	7.52	--	--	--	17.00	288.7	--	--	--	--	704.0
	9	64.0-69.5	7.25	--	--	--	22.50	292.1	--	--	--	--	783.0
	10	91.5-96.5	7.18	--	--	--	25.20	294.0	--	--	--	--	770.0
Station 856C #5	0	0.0-0.0	7.22	--	--	--	1.20	289.3	--	--	--	--	32.6
	1	0.0-2.0	7.32	--	--	--	1.90	291.3	--	--	--	--	266.0
38°56'12"	2	2.0-3.5	7.40	--	--	--	2.30	294.6	--	--	--	--	299.0
76°23'20"	3	3.5-5.0	7.85	--	--	--	--	298.8	--	--	--	--	366.0
	4	5.0-6.5	7.47	--	--	--	8.50	291.5	--	--	--	--	538.0
Cr: GIW V	5	6.5-8.0	7.58	--	--	--	9.70	285.8	--	--	--	--	504.0
	6	10.5-12.5	7.24	--	--	--	10.60	285.4	--	--	--	--	610.0
28/X/71	7	17.5-22.0	7.46	--	--	--	12.70	283.2	--	--	--	--	610.0
	8	38.5-44.0	7.52	--	--	--	19.90	290.3	--	--	--	--	629.0
	9	66.5-71.0	7.15	--	--	--	24.90	292.9	--	--	--	--	681.0
	10	96.0-101.0	7.02	--	--	--	27.30	294.4	--	--	--	--	728.0
Station 856C #6	0	0.0-0.0	7.46	--	--	--	0.30	293.5	--	--	--	--	27.2
	1	0.0-2.0	7.62	--	--	--	5.40	294.0	--	--	--	--	333.0
38°56'12"	2	2.0-3.0	7.72	--	--	--	6.40	294.8	--	--	--	--	509.0
76°23'20"	3	3.0-5.0	7.95	--	--	--	8.70	290.2	--	--	--	--	502.0
	4	5.0-7.0	7.43	--	--	--	10.00	285.1	--	--	--	--	628.0
Cr: GIW V	5	7.0-9.5	7.47	--	--	--	10.90	284.2	--	--	--	--	617.0
	6	13.5-15.5	7.78	--	--	--	13.40	285.8	--	--	--	--	596.0
28/X/71	7	19.0-24.5	7.43	--	--	--	15.30	287.7	--	--	--	--	679.0
	8	38.5-42.0	7.50	--	--	--	21.30	291.8	--	--	--	--	660.0
	9	67.0-72.5	7.20	--	--	--	25.60	291.8	--	--	--	--	776.0
	10	93.5-99.0	7.01	--	--	--	27.40	294.8	--	--	--	--	817.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #2	0	0.0-0.0	--	--	--	29.9	2.20	297.8	--	--	--	--	22.1
	1	0.0-1.5	--	--	--	29.8	3.20	298.6	--	--	--	--	177.0
38°56'12"	2	1.5-3.0	--	--	--	28.7	3.50	299.9	--	--	--	--	338.0
76°23'20"	3	3.0-4.5	--	--	--	24.3	6.10	298.2	--	--	--	--	309.0
	4	4.5-6.5	--	--	--	21.1	7.30	291.9	--	--	--	--	509.0
Cr: GIW V	5	6.5-8.5	--	--	--	19.4	9.50	289.9	--	--	--	--	527.0
	6	11.0-13.5	--	--	--	18.0	11.80	289.2	--	--	--	--	585.0
27/X/71	7	18.0-23.0	--	--	--	16.5	13.20	287.2	--	--	--	--	655.0
	8	38.0-43.5	--	--	--	8.7	19.70	296.8	--	--	--	--	679.0
	9	66.5-72.0	--	--	--	0.6	25.60	295.4	--	--	--	--	731.0
	10	95.0-101.5	--	--	--	0.3	27.80	297.5	--	--	--	--	804.0
Station 856C #3	0		--	--	--	--	1.00	295.8	--	--	--	--	26.1
	1		--	--	--	--	1.60	298.3	--	--	--	--	219.0
38°56'12"	2		--	--	--	--	4.00	300.8	--	--	--	--	441.0
76°23'20"	3		--	--	--	--	7.30	298.5	--	--	--	--	562.0
	4		--	--	--	--	6.90	--	--	--	--	--	588.0
Cr: GIW V	5		--	--	--	--	10.70	289.4	--	--	--	--	602.0
	6		--	--	--	--	10.30	286.2	--	--	--	--	668.0
27/X/71	7		--	--	--	--	12.00	286.2	--	--	--	--	728.0
	8		--	--	--	--	18.40	291.7	--	--	--	--	733.0
	9		--	--	--	--	24.30	--	--	--	--	--	829.0
	10		--	--	--	--	26.10	291.7	--	--	--	--	849.0
Station 856E #1	0	0.0-0.0	7.21	--	--	21.6	1.00	277.2	--	--	9.3	nd	28.8
	1	0.0-2.5	7.41	--	--	20.0	4.30	278.6	4.1	--	57.4	180.	291.0
38°56'38"	2	2.5-4.0	7.60	--	--	18.6	6.20	281.7	8.7	--	90.1	336.	359.0
76°24'56"	3	4.0-6.0	7.51	--	--	15.8	7.90	290.2	14.8	--	224.0	599.	518.0
	4	6.0-8.0	7.50	--	--	10.7	12.30	293.5	10.7	--	293.0	896.	556.0
Cr: GIW VI	5	8.0-10.5	7.54	--	--	6.6	15.70	289.4	10.9	--	318.0	1105.	--
	6	13.5-16.0	7.70	--	--	1.6	21.30	288.3	3.1	--	243.0	1130.	577.0
22/XI/71	7	19.0-24.0	7.75	--	--	1.4	22.50	284.2	4.6	--	332.0	1300.	559.0
	8	38.0-43.5	7.88	--	--	0.4	24.30	293.2	4.4	--	332.0	1460.	548.0
	9	66.5-72.5	7.67	--	--	0.2	24.20	296.8	4.2	--	186.0	1590.	502.0
	10	94.0-99.0	7.70	--	--	0.2	24.90	298.8	33.0	--	247.0	1620.	570.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C	0	0.0-0.0	6.95	--	--	27.4	2.50	277.2	--	--	7.9	53.	32.4
	1	0.0-1.5	6.96	--	--	26.3	3.00	278.6	17.7	--	46.8	213.	323.0
38°56'12"	2	1.5-3.5	7.11	--	--	24.3	5.80	281.7	94.2	--	91.3	332.	390.0
76°23'20"	3	3.5-5.0	7.20	--	--	22.3	7.30	240.2	50.3	--	158.0	663.	502.0
	4	5.0-6.5	7.21	--	--	17.3	9.90	293.5	6.8	--	216.0	738.	528.0
Cr: GIW VI	5	6.5-8.5	7.82	--	--	16.0	12.60	289.4	3.0	--	162.0	922.	475.0
	6	13.5-15.0	8.19	--	--	13.6	15.40	288.3	2.5	--	197.0	1099.	540.0
24/XI/71	7	19.5-24.0	7.99	--	--	12.1	19.00	284.2	4.7	--	291.0	1290.	608.0
	8	38.5-43.5	8.06	--	--	4.4	24.40	293.2	4.4	--	348.0	1800.	610.0
	9	67.0-72.5	7.62	--	--	0.3	28.50	296.8	54.8	--	228.0	2700.	696.0
	10	93.0-99.0	7.58	--	--	0.3	31.40	298.8	158.0	--	136.0	3370.	748.0
Station 856E #3	0	0.0-0.0	7.12	--	--	19.2	0.70	229.3	--	--	--	--	26.0
	1	0.0-2.0	7.29	--	--	15.9	4.00	227.6	--	--	--	--	233.0
37°56'38"	2	2.0-4.0	7.45	--	--	15.4	5.20	233.0	--	--	--	--	368.0
76°24'56"	3	4.0-5.5	7.42	--	--	15.8	12.00	237.8	--	--	--	--	516.0
	4	5.5-7.0	7.48	--	--	9.5	11.30	239.2	--	--	--	--	539.0
Cr: GIW VI	5	7.0-9.0	7.43	--	--	7.0	12.70	237.4	--	--	--	--	539.0
	6	14.5-16.5	7.80	--	--	5.4	17.60	236.0	--	--	--	--	526.0
23/XI/71	7	18.5-22.5	7.65	--	--	3.1	21.40	238.8	--	--	--	--	514.0
	8	38.0-43.0	7.65	--	--	0.4	27.00	248.0	--	--	--	--	507.0
	9	66.0-71.5	7.42	--	--	0.3	26.80	251.9	--	--	--	--	505.0
	10	93.0-98.5	7.60	--	--	0.3	31.60	253.3	--	--	--	--	572.0
Station 856E #4	0	0.0-0.0	7.16	--	--	--	1.10	223.8	--	--	--	--	30.9
	1	0.0-2.0	7.20	--	--	--	2.40	226.2	--	--	--	--	253.0
38°56'38"	2	2.0-3.5	7.45	--	--	--	5.00	232.4	--	--	--	--	413.0
76°24'56"	3	3.5-5.0	7.40	--	--	--	7.50	238.0	--	--	--	--	496.0
	4	5.0-6.5	7.39	--	--	--	10.50	238.2	--	--	--	--	561.0
Cr: GIW VI	5	6.5-8.5	7.45	--	--	--	13.70	235.0	--	--	--	--	599.0
	6	13.0-16.0	7.65	--	--	--	17.80	233.0	--	--	--	--	468.0
23/XI/71	7	19.5-24.0	7.68	--	--	--	19.00	239.0	--	--	--	--	511.0
	8	38.0-42.5	7.60	--	--	--	23.30	248.3	--	--	--	--	472.0
	9	66.5-72.5	7.50	--	--	--	25.50	250.6	--	--	--	--	481.0
	10	93.0-99.5	7.60	--	--	--	26.10	251.2	--	--	--	--	564.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E #2	0	0.0-0.0	7.37	--	--	--	1.40	228.0	--	--	--	--	21.7
	1	0.0-1.5	7.43	--	--	--	5.10	228.5	--	--	--	--	256.0
38°56'38"	2	1.5-3.0	7.59	--	--	--	6.20	234.2	--	--	--	--	382.0
76°24'56"	3	3.0-5.0	7.50	--	--	--	8.80	238.2	--	--	--	--	492.0
	4	5.0-7.0	7.50	--	--	--	12.30	239.8	--	--	--	--	522.0
Cr: GIW VI	5	--	--	--	--	--	--	--	--	--	--	--	--
	6	9.0-11.0	7.61	--	--	--	18.40	237.4	--	--	--	--	542.0
23/XI/71	7	18.0-22.5	7.74	--	--	--	24.50	239.0	--	--	--	--	531.0
	8	36.5-42.0	7.85	--	--	--	29.80	249.6	--	--	--	--	509.0
	9	64.5-71.0	7.79	--	--	--	28.90	249.2	--	--	--	--	603.0
	10	92.0-97.0	7.94	--	--	--	30.10	253.0	--	--	--	--	496.0
Station 856E #1	0	0.0-0.0	7.35	--	--	21.8	0.70	211.6	--	--	8.4	5.	28.1
	1	0.0-2.0	7.39	--	--	17.0	5.30	227.8	3.0	--	66.3	570.	259.0
38°56'40"	2	2.0-4.0	7.31	--	--	20.1	2.90	227.8	5.1	--	35.4	178.	--
76°24'55"	3	4.0-5.5	7.36	--	--	15.8	7.10	231.6	7.9	--	188.0	503.	446.0
	4	5.5-7.5	7.41	--	--	11.1	12.30	233.6	6.5	--	281.0	921.	530.0
Cr: GIW VII	5	7.5-10.0	7.47	--	--	8.2	14.50	236.1	4.8	--	297.0	1130.	515.0
	6	14.0-16.5	7.80	--	--	4.0	19.00	238.4	3.5	--	205.0	1370.	442.0
20/XII/71	7	20.0-24.0	7.80	--	--	1.9	21.50	240.4	3.6	--	370.0	1480.	460.0
	8	39.0-44.0	7.37	--	--	0.8	23.20	249.6	73.0	--	321.0	2080.	489.0
	9	67.5-72.5	7.41	--	--	0.3	28.50	252.5	19.5	--	290.0	2300.	525.0
	10	94.0-100.0	7.52	--	--	0.4	29.70	255.1	5.8	--	352.0	1955.	--
Station 856E #2	0	0.0-0.0	7.10	--	--	19.7	--	198.4	--	--	--	--	30.2
	1	0.0-2.0	7.20	--	--	21.0	0.50	227.3	--	--	--	--	240.0
38°56'40"	2	2.0-3.5	7.30	--	--	18.3	2.60	226.0	--	--	--	--	386.0
76°24'55"	3	3.5-5.0	7.60	--	--	14.6	5.80	229.3	--	--	--	--	496.0
	4	5.0-7.0	7.57	--	--	11.5	8.20	235.8	--	--	--	--	527.0
Cr: GIW VII	5	7.0-9.0	7.61	--	--	8.2	12.00	237.1	--	--	--	--	527.0
	6	13.5-15.0	--	--	--	2.3	16.80	238.2	--	--	--	--	--
20/XII/71	7	19.0-24.0	8.01	--	--	0.9	20.70	242.7	--	--	--	--	496.0
	8	38.0-42.5	7.55	--	--	0.5	23.20	249.6	73.2	--	--	--	519.0
	9	66.5-72.5	7.50	--	--	0.3	26.70	254.4	19.5	--	--	--	499.0
	10	93.0-98.5	7.58	--	--	0.3	26.70	252.7	--	--	--	--	552.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E	0	0.0-0.0	6.90	--	--	26.2	2.00	261.9	nd	--	2.0	13.	14.6
	1	0.0-2.5	7.00	--	--	22.4	3.30	244.7	17.2	--	13.3	114.	180.0
38°56'36"	2	2.5-4.0	7.30	--	--	19.8	6.20	240.7	41.8	--	44.7	258.	256.0
76°24'55"	3	4.0-5.5	7.50	--	--	13.8	9.10	236.6	15.8	--	181.0	612.	353.0
	4	5.5-7.5	7.80	--	--	8.7	14.30	238.7	3.8	--	350.0	1155.	345.0
Cr: GIW VIII	5	7.5-9.5	7.80	--	--	3.6	19.30	241.0	4.5	--	468.0	2087.	426.0
	6	14.0-17.0	7.50	--	--	0.7	26.50	244.7	26.0	--	409.0	2717.	582.0
16/I/72	7	20.0-24.0	7.50	--	--	0.3	28.20	248.8	112.0	--	573.0	3175.	512.0
	8	39.0-44.5	7.80	--	--	0.7	29.80	255.6	4.3	--	441.0	2304.	452.0
	9	67.5-73.0	7.50	--	--	0.5	29.50	256.9	12.9	--	446.0	2076.	456.0
	10	94.0-100.0	7.20	--	--	0.4	28.80	259.4	16.3	--	355.0	2310.	520.0
Station 856F	0	0.0-0.0	7.30	--	--	--	1.10	168.0	--	--	1.2	13.	38.5
	1	0.0-2.0	7.20	--	--	--	1.90	185.5	2.0	--	4.0	34.	85.7
38°56'28"	2	2.0-4.0	7.20	--	--	--	1.90	201.1	4.5	--	2.8	28.	130.0
76°25'30"	3	4.0-5.5	7.20	--	--	--	4.70	208.4	11.4	--	11.9	85.	204.0
	4	5.5-7.0	7.30	--	--	--	2.40	204.2	11.2	--	22.2	127.	240.0
Cr: GIW VIII	5	7.0-9.0	7.40	--	--	--	3.30	208.1	4.7	--	60.6	125.	283.0
	6	14.0-17.0	7.50	--	--	--	4.40	213.9	1.6	--	70.1	178.	311.0
17/I/72	7	20.0-24.5	7.50	--	--	--	4.40	233.0	1.8	--	47.1	134.	303.0
	8	39.0-44.0	7.40	--	--	--	5.00	214.6	1.2	--	104.0	496.	354.0
	9	67.0-72.0	7.40	--	--	--	21.90	233.0	8.2	--	304.0	1681.	391.0
	10	93.5-98.0	7.40	--	--	--	24.30	234.6	5.1	--	286.0	1815.	451.0
Station 856C	0	0.0-0.0	6.90	--	--	28.2	0.60	277.2	0.6	--	2.3	15.	48.7
	1	0.0-2.0	7.10	--	--	27.6	0.30	277.8	17.1	--	2.3	82.	76.9
38°56'20"	2	2.0-3.5	7.00	--	--	26.0	1.00	270.9	70.8	--	5.1	107.	161.0
76°23'7"	3	3.5-5.0	7.40	--	--	24.1	4.40	269.6	7.5	--	51.2	--	283.0
	4	5.0-7.0	7.90	--	--	21.0	11.00	274.6	2.2	--	147.0	469.	392.0
Cr: GIW VIII	5	7.0-9.0	8.00	--	--	19.2	8.80	277.3	3.4	--	191.0	618.	403.0
	6	13.5-15.5	8.00	--	--	14.0	12.00	283.5	4.6	--	309.0	989.	449.0
19/I/72	7	19.5-24.0	8.10	--	--	10.4	16.00	288.2	2.6	--	344.0	1209.	459.0
	8	38.0-41.5	8.20	--	--	2.8	22.40	288.6	2.2	--	407.0	1597.	490.0
	9	67.0-72.5	7.60	--	--	0.5	26.10	291.6	31.4	--	329.0	2229.	538.0
	10	93.5-98.5	7.40	--	--	0.3	27.40	295.2	149.0	--	23.0	2705.	588.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856-7	0	0.0-0.0	6.50	--	--	--	1.70	176.8	--	--	8.8	nd	43.3
	1	0.0-2.0	7.50	--	--	--	4.70	234.0	0.6	--	63.1	286.	249.0
38°56'36"	2	2.0-3.5	7.50	--	--	--	5.40	234.5	nd	--	59.7	346.	264.0
76°24'0"	3	3.5-5.0	7.60	--	--	--	8.30	247.2	2.2	--	116.0	568.	343.0
	4	5.0-6.5	7.70	--	--	--	11.30	252.2	7.1	--	155.0	893.	282.0
Cr: GIW VIII	5	6.5-8.5	7.80	--	--	--	12.10	252.3	0.3	--	160.0	991.	377.0
	6	13.5-16.0	7.90	--	--	--	18.00	258.2	1.4	--	274.0	1361.	374.0
17/I/72	7	19.5-24.0	7.80	--	--	--	23.20	261.1	3.4	--	347.0	1787.	390.0
	8	38.0-43.0	7.50	--	--	--	28.10	266.3	25.1	--	314.0	2413.	538.0
	9	66.0-73.0	7.40	--	--	--	34.30	268.0	11.6	--	449.0	2966.	617.0
	10	93.0-99.0	7.30	--	--	--	36.60	272.0	4.2	--	504.0	3104.	692.0
Station 856B	0	0.0-0.0	6.50	--	--	--	1.00	264.8	--	--	0.8	73.	33.6
	1	0.0-2.0	7.00	--	--	--	0.50	255.9	--	--	15.4	112.	155.0
38°56'20"	2	2.0-3.5	6.60	--	--	--	--	256.2	455.0	--	10.6	--	284.0
76°28'5"	3	3.5-5.0	6.90	--	--	--	1.80	254.4	27.4	--	83.0	238.	416.0
	4	5.0-7.5	7.40	--	--	--	5.30	258.2	3.0	--	163.0	359.	424.0
Cr: GIW VIII	5	7.5-9.0	7.50	--	--	--	8.60	261.1	1.1	--	198.0	546.	431.0
	6	13.5-16.0	7.70	--	--	--	8.70	267.3	0.9	--	234.0	655.	477.0
19/I/72	7	20.0-25.0	8.00	--	--	--	11.50	270.4	2.7	--	270.0	783.	506.0
	8	38.5-43.0	8.00	--	--	--	11.70	274.0	1.4	--	292.0	790.	469.0
	9	68.0-71.0	7.70	--	--	--	--	276.4	0.6	--	201.0	1264.	346.0
	10	85.0-90.0	8.00	--	--	--	--	--	1.6	--	125.0	1258.	327.0
Station 856C #1	0	0.0-0.0	7.65	--	nd	--	1.70	265.2	--	--	12.8	69.	18.7
	1	0.0-2.0	7.64	--	nd	--	5.90	269.2	--	--	54.7	938.	57.0
38°56'16"	2	2.0-3.5	7.64	--	nd	--	7.20	273.0	--	--	13.6	686.	85.0
76°23'15"	3	3.5-5.5	7.63	--	14.00	--	11.00	279.0	--	--	41.5	985.	106.0
	4	5.5-7.5	7.59	--	11.70	--	13.10	282.0	--	--	291.0	1420.	245.0
Cr: GIW IX	5	7.5-9.5	7.54	--	7.00	--	19.30	285.5	--	--	445.0	1770.	219.0
	6	13.5-16.5	7.50	--	7.10	--	30.20	289.1	--	--	714.0	2950.	331.0
22/II/72	7	19.5-24.5	7.34	--	7.80	--	32.90	290.0	--	--	599.0	3320.	382.0
	8	38.0-44.0	7.26	--	11.40	--	37.70	292.6	--	--	586.0	3830.	333.0
	9	67.0-72.0	7.19	--	12.20	--	41.30	294.5	--	--	529.0	4960.	358.0
	10	94.0-102.0	7.19	--	13.60	--	43.20	295.3	--	--	254.0	5900.	442.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #2	0	0.0-0.0	7.65	--	nd	27.2	1.60	272.0	--	--	10.0	nd	18.3
	1	0.0-2.0	7.64	--	12.00	24.6	4.20	271.6	--	--	40.6	375.	198.0
38°56'16"	2	2.0-3.5	7.64	--	7.50	22.3	6.20	270.3	--	--	90.0	595.	281.0
76°23'15"	3	3.5-5.5	7.63	--	7.10	16.5	10.70	270.8	--	--	184.0	910.	351.0
	4	5.5-7.5	7.59	--	6.80	9.8	18.30	271.1	--	--	351.0	1420.	380.0
Cr: GIW IX	5	7.5-10.0	7.54	--	6.70	6.6	22.70	273.3	--	--	413.0	1640.	396.0
	6	13.5-16.0	7.50	--	6.40	0.7	29.00	280.3	--	--	513.0	2440.	462.0
22/II/72	7	19.5-25.0	7.34	--	7.20	0.9	31.90	282.5	--	--	567.0	3230.	462.0
	8	38.5-43.0	7.26	--	10.80	0.4	35.60	287.4	--	--	82.0	9020.	466.0
	9	67.0-73.0	7.19	--	11.90	0.2	39.20	291.0	--	--	82.0	5960.	433.0
	10	93.5-98.0	7.19	--	11.70	0.3	40.90	291.0	--	--	77.6	6460.	454.0
Station 856E	0	0.0-0.0	--	--	--	21.2	2.10	210.8	--	--	8.3	142.	27.6
	1	0.0-1.5	7.35	--	--	15.4	6.40	222.1	48.6	--	58.8	705.	227.0
38°56'20"	2	1.5-3.0	7.35	--	--	20.2	3.40	217.5	3.9	--	14.9	374.	180.0
76°25'10"	3	3.0-4.5	7.35	--	--	19.6	3.60	227.4	--	--	19.9	450.	270.0
	4	4.5-6.5	7.43	--	--	16.6	6.60	231.8	176.0	--	153.0	666.	360.0
Cr: GIW IX	5	6.5-9.0	7.50	--	--	13.2	9.40	231.4	29.4	--	196.0	818.	382.0
	6	13.0-15.0	7.54	--	--	6.7	15.40	230.5	9.3	--	270.0	1180.	326.0
24/II/72	7	19.0-24.0	7.51	--	--	3.9	19.80	235.6	2.5	--	244.0	1370.	356.0
	8	38.0-42.0	7.48	--	14.3	0.6	25.2	245.3	10.6	--	353.0	1550.	346.0
	9	66.0-72.0	7.55	--	12.9	0.3	26.1	248.1	141.0	--	167.0	2000.	347.0
	10	92.5-98.0	7.54	--	12.3	0.4	28.5	248.8	10.8	--	235.0	2100.	404.0
Station 856E #1	0	0.0-0.0	--	--	--	17.5	--	181.3	48.6	--	3.6	33.	28.4
	1	0.0-1.5	--	--	nd	18.8	--	174.0	3.9	--	1.7	82.	96.7
38°56'8"	2	1.5-3.5	--	--	nd	19.5	--	184.8	--	--	6.3	53.	16.6
76°25'18"	3	3.5-4.5	--	--	nd	20.0	--	200.4	176.0	--	39.4	190.	250.0
	4	4.5-7.0	--	--	nd	19.5	--	211.4	29.4	--	78.4	203.	302.0
Cr: GIW X	5	7.0-8.5	--	--	nd	18.5	--	220.4	9.3	--	90.5	144.	319.0
	6	13.0-15.5	--	--	nd	11.3	--	231.4	2.5	--	234.0	377.	349.0
14/III/72	7	20.0-24.0	--	--	nd	7.0	--	234.8	10.6	--	281.0	1120.	331.0
	8	38.5-42.5	--	--	11.20	0.9	--	242.6	110.0	--	395.0	2560.	378.0
	9	68.0-71.5	--	--	13.00	0.2	--	246.1	141.0	--	147.0	3760.	349.0
	10	92.5-99.5	--	--	12.60	0.2	--	245.4	10.8	--	169.0	4150.	339.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E #2	0	0.0-0.0	7.28	--	nd	18.2	1.10	179.1	--	--	nd	69.	--
	1	0.0-2.0	7.46	--	nd	18.2	1.70	180.5	4.2	--	5.7	183.	378.0
38°56'8"	2	2.0-3.5	7.15	--	nd	19.1	1.00	190.0	53.7	--	11.1	174.	373.0
76°25'18"	3	3.5-5.0	7.18	--	nd	19.1	1.20	204.4	364.0	--	61.0	162.	364.0
	4	5.0-6.5	7.48	--	nd	17.8	3.80	214.6	228.0	--	127.0	389.	374.0
Cr: GIW X	5	6.5-9.5	7.61	--	nd	14.4	6.00	221.2	9.9	--	173.0	346.	--
	6	13.5-16.5	7.80	--	nd	8.7	13.10	230.8	4.0	--	45.9	672.	340.0
14/III/72	7	19.5-24.5	8.10	--	nd	1.9	16.90	233.0	2.3	--	228.0	470.	378.0
	8	38.5-43.5	7.90	--	10.20	0.6	22.70	241.6	3.0	--	388.0	1995.	379.0
	9	67.0-72.0	7.45	--	13.60	0.2	26.50	245.0	181.0	--	214.0	3480.	366.0
	10	94.0-99.0	7.51	--	13.30	0.3	28.00	244.7	158.0	--	126.0	4290.	377.0
Station 856C #2	0	0.0-0.0	7.19	--	--	22.0	7.00	--	0.3	--	1.9	17.	18.7
	1	0.0-1.5	7.51	--	8.10	19.0	3.70	298.0	1.6	--	111.0	801.	222.0
38°56'10"	2	1.5-3.0	6.94	--	9.90	22.9	2.40	292.4	116.0	--	11.9	438.	196.0
76°23'15"	3	3.0-4.5	6.47	--	9.20	23.3	7.10	292.5	480.0	--	83.5	455.	312.0
	4	4.5-7.0	7.08	--	8.70	19.6	11.60	292.2	61.6	--	210.0	744.	393.0
Cr: GIW X	5	7.0-8.0	7.27	--	8.00	15.4	19.10	292.1	4.3	--	328.0	1065.	393.0
	6	13.0-15.5	7.35	--	6.50	8.3	22.30	289.4	1.8	--	366.0	1490.	406.0
15/III/72	7	19.5-24.5	7.67	--	7.20	4.7	25.10	296.0	2.4	--	356.0	1620.	419.0
	8	38.0-42.0	7.45	--	8.50	0.6	28.40	291.8	63.3	--	354.0	2150.	450.0
	9	67.5-71.5	7.10	--	10.00	0.4	30.50	292.0	229.0	--	168.0	2860.	525.0
	10	92.5-99.5	7.29	--	10.00	0.4	1.30	--	19.2	--	162.0	2840.	535.0
		Water Column M											
Station 856C #0	1	0.2	--	--	--	--	1.10	215.0	--	--	--	--	--
	2	--	--	--	--	--	--	--	--	--	--	--	--
38°56'10"	3	1.0	--	--	--	--	1.20	215.7	--	--	--	--	--
76°23'15"	4	2.0	--	--	--	--	1.10	214.5	--	--	--	--	--
Cr: GIW X	5	3.5	--	--	--	--	1.10	215.7	--	--	--	--	--
	6	5.0	--	--	--	--	1.20	216.5	--	--	--	--	--
15/III/72													

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #1	0	0.0-0.0	7.19	--	--	22.0	7.00	--	0.3	--	1.9	17.	48.0
	1	0.0-2.0	7.24	292.	--	21.7	6.90	214.1	2.0	--	9.1	495.	135.0
38°56'10"	2	2.0-3.5	7.45	212.	--	18.3	6.20	229.4	149.0	--	72.3	495.	294.0
76°23'15"	3	3.5-5.0	7.32	222.	--	5.1	5.40	238.0	69.7	--	86.4	525.	347.0
	4	5.0-7.0	7.20	202.	--	7.7	9.00	256.2	77.1	--	157.0	525.	437.0
Cr: GIW X	5	7.0-9.0	7.25	227.	--	15.8	11.00	265.8	17.4	--	309.0	825.	483.0
	6	13.5-16.0	7.70	62.	9.85	5.4	23.30	283.2	3.9	--	452.0	1550.	437.0
15/III/72	7	19.5-24.0	7.80	-3.	9.85	0.9	25.70	291.1	5.2	--	502.0	2030.	448.0
	8	38.5-43.5	7.36	57.	12.30	0.4	27.00	297.7	175.0	--	377.0	2680.	480.0
	9	67.0-71.0	7.27	42.	12.95	0.3	31.30	298.2	434.0	--	237.0	3220.	484.0
	10	94.0-99.0	7.28	57.	12.95	0.3	31.60	300.1	290.0	--	221.0	3190.	567.0
Station 856E	0	0.0-0.0	--	--	--	23.1	--	222.0	--	--	--	--	--
	1	0.0-2.0	--	--	--	20.0	--	213.8	--	--	--	--	--
38°56'20"	2	2.0-3.5	--	--	--	19.7	--	206.8	--	--	--	--	--
76°25'10"	3	3.5-5.5	--	--	--	19.2	--	201.4	--	--	--	--	--
	4	5.5-7.5	--	--	--	17.8	--	205.0	--	--	--	--	--
Cr: GIW XI	5	7.5-9.5	--	--	--	16.4	--	210.3	--	--	--	--	--
	6	13.5-15.0	--	--	--	8.9	--	225.9	--	--	--	--	--
29/III/72	7	19.0-25.0	--	--	--	5.0	--	233.2	--	--	--	--	--
	8	38.0-43.0	--	--	--	1.6	--	241.0	--	--	--	--	--
	9	66.0-71.0	--	--	--	0.2	--	243.8	--	--	--	--	--
	10	93.5-99.5	--	--	--	0.3	--	245.7	--	--	--	--	--
Station 856C	0	0.0-0.0	--	--	--	24.0	--	275.6	--	--	--	--	--
	1	0.0-2.0	--	--	--	20.8	--	275.1	--	--	--	--	--
38°56'10"	2	2.0-3.5	--	--	--	19.6	--	257.2	--	--	--	--	--
76°23'15"	3	3.5-6.0	--	--	--	14.0	--	266.6	--	--	--	--	--
	4	6.0-9.0	--	--	--	8.5	--	280.0	--	--	--	--	--
Cr: GIW XI	5	9.0-11.5	--	--	--	3.3	--	286.9	--	--	--	--	--
	6	14.0-18.5	--	--	--	1.0	--	292.5	--	--	--	--	--
29/III/72	7	20.0-25.5	--	--	--	0.8	--	296.5	--	--	--	--	--
	8	39.0-45.0	--	--	--	0.4	--	296.0	--	--	--	--	--
	9	68.0-73.0	--	--	--	0.4	--	298.1	--	--	--	--	--
	10	93.0-99.0	--	--	--	0.3	--	298.1	--	--	--	--	--

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E	0	0.0-0.0	--	--	--	21.4	2.40	210.1	--	--	0.8	18.	18.5
	1	0.0-2.0	--	--	--	19.7	3.00	211.3	--	--	18.4	269.	226.0
38°56'30"	2	2.0-3.5	--	--	--	20.3	2.50	209.0	--	--	0.3	114.	179.0
76°25'0"	3	3.5-5.5	--	--	--	19.6	2.60	204.9	--	--	0.2	156.	214.0
	4	5.5-8.0	--	--	--	18.2	3.00	203.4	--	--	54.6	336.	348.0
Cr: GIW XII	5	8.0-10.0	--	--	--	16.6	6.00	210.0	--	--	112.0	509.	456.0
	6	14.0-16.5	--	--	--	10.7	12.30	228.6	--	--	288.0	898.	475.0
27/IV/72	7	20.0-24.5	--	--	--	6.7	16.50	244.3	--	--	310.0	1160.	456.0
	8	38.5-43.5	--	--	--	1.0	23.00	241.1	--	--	366.0	1340.	422.0
	9	67.5-72.5	--	--	--	0.2	25.00	248.5	--	--	297.0	1770.	407.0
	10	93.5-99.5	--	--	--	0.2	26.60	251.2	--	--	279.0	1990.	428.0
Station 856C	0	0.0-0.0	--	--	--	26.0	2.10	251.9	--	--	0.2	6.	12.0
	1	0.0-2.0	--	--	--	21.6	5.30	260.2	--	--	108.0	670.	262.0
38°56'12"	2	2.0-3.5	--	--	--	23.7	2.20	251.4	--	--	60.5	311.	349.0
76°23'6"	3	3.5-5.0	--	--	--	21.2	5.30	254.9	--	--	156.0	503.	457.0
	4	5.0-7.0	--	--	--	18.0	9.60	266.9	--	--	264.0	755.	500.0
Cr: GIW XII	5	7.0-9.5	--	--	--	18.5	12.60	272.4	--	--	345.0	1020.	490.0
	6	13.5-16.0	--	--	--	6.8	20.50	282.4	--	--	429.0	1635.	466.0
28/IV/72	7	19.5-24.0	--	--	--	3.3	24.60	288.4	--	--	407.0	1890.	475.0
	8	38.5-42.5	--	--	--	4.1	28.50	294.4	--	--	268.0	2380.	500.0
	9	66.5-72.0	--	--	--	2.0	30.10	297.6	--	--	187.0	3210.	534.0
	10	93.0-98.0	--	--	--	2.7	32.30	298.4	--	--	131.0	3600.	585.0
Station 856C #1	0	0.0-0.0	--	--	nd	23.2	1.30	231.4	--	--	0.8	6.	20.9
	1	0.0-2.0	7.50	--	nd	24.1	1.80	236.1	3.2	--	10.0	291.	97.2
38°56'10"	2	2.0-3.5	7.60	--	nd	23.8	2.50	239.4	5.4	--	9.1	177.	104.0
76°23'15"	3	3.5-6.5	7.80	--	nd	24.0	2.70	242.4	3.6	--	36.2	221.	299.0
	4	6.5-9.0	7.80	-18.	nd	24.2	5.70	269.0	1.2	--	95.6	436.	450.0
Cr: GIW XIII	5	9.0-11.0	7.80	-70.	nd	23.2	6.80	275.8	1.6	--	132.0	518.	509.0
	6	14.0-17.0	7.90	-103.	11.00	21.0	9.80	286.4	4.0	--	176.0	664.	542.0
25/V/72	7	20.0-24.5	8.10	-128.	10.70	20.0	10.20	289.4	3.0	--	200.0	745.	585.0
	8	39.0-44.0	7.80	-218.	10.70	14.6	13.00	308.5	5.3	--	203.0	973.	585.0
	9	67.5-74.5	7.60	-208.	9.00		14.80	--	15.4	--	267.0	1105.	570.0
	10	94.0-100.0	7.55	-208.	7.60	10.6	15.30	303.1	9.0	--	153.0	1220.	605.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856C #2	0	0.0-0.0		--	--	23.0	1.50	230.2	--	--	nd	19.	26.1
	1	0.0-2.0	7.10	-111.	nd	22.5	0.90	231.0	1.2	--	4.3	150.	152.0
38°56'10"	2	2.0-3.5	7.30	-73.	nd	22.8	5.80	234.6	9.1	--	10.4	98.	138.0
76°23'15"	3	3.5-6.5	7.60	22.	nd	22.5	2.60	238.4	15.7	--	32.8	183.	263.0
	4	6.5-9.0	7.60	-88.	nd	21.7	5.10	253.7	8.8	--	136.0	373.	430.0
Cr: GIW XIII	5	9.0-11.0	--	-133.	nd	20.4	5.40	268.3	0.6	--	174.0	523.	457.0
	6	14.0-17.0	7.70	-78.	nd	17.9	9.90	283.5	2.7	--	322.0	916.	522.0
26/V/72	7	20.0-24.5	7.80	-168.	nd	9.6	15.00	291.7	1.4	--	392.0	1280.	500.0
	8	39.0-44.0	7.80	-178.	nd	4.9	19.90	291.5	17.8	--	428.0	1580.	508.0
	9	67.5-74.5	7.50	-168.	8.50	1.3	22.00	295.2	1.2	--	320.0	1800.	489.0
	10	94.0-100.0	7.50	-188.	nd	3.4	21.90	296.0	7.6	--	192.0	1670.	493.0
Station 856E	0	0.0-0.0	--	--	nd	19.2	1.10	196.0	--	--	0.2	189.	38.6
	1	0.0-2.0	7.20	176.	nd	12.4	3.40	205.9	1.8	--	7.9	155.	226.0
38°56'8"	2	2.0-4.0	6.80	152.	nd	18.9	1.90	196.3	272.0	--	15.5	nd	261.0
76°25'18"	3	4.0-6.0	7.70	57.	nd	17.3	3.90	197.5	623.0	--	89.5	88.	442.0
	4	6.0-7.5	7.60	-18.	nd	16.4	5.60	204.6	247.0	--	124.0	189.	537.0
Cr: GIW XIII	5	7.5-9.5	7.60	-128.	11.70	16.0	7.80	211.7	41.2	--	183.0	350.	527.0
	6	9.5-11.0	7.60	-78.	11.20	13.8	9.90	218.2	21.5	--	193.0	458.	533.0
24/V/72	7	19.0-23.5	8.20	-148.	9.50	6.0	17.10	234.2	3.6	--	282.0	983.	507.0
	8	38.5-43.0	8.00	-208.	10.20	0.7	25.60	244.3	8.6	--	379.0	1500.	526.0
	9	67.0-72.0	7.60	-238.	nd	0.3	26.40	251.4	195.0	--	208.0	2100.	488.0
	10	93.0-97.0	7.60	-188.	12.60	0.4	26.40	252.7	43.0	--	228.0	2310.	552.0
Station 856E #1	0	0.0-0.0	--	--	--	8.8	1.90	87.4	--	--	1.6	62.	43.9
	1	0.0-1.5	7.44	282.	nd	9.7	2.40	111.7	5.9	--	14.8	340.	--
38°56'8"	2	1.5-3.0	7.54	127.	nd	7.6	2.40	76.4	17.0	--	17.7	430.	218.0
76°25'18"	3	3.0-5.0	7.35	82.	nd	9.8	2.90	93.3	65.8	--	49.0	250.	270.0
	4	5.0-6.5	7.29	62.	nd	11.6	5.20	146.6	60.7	--	74.5	375.	458.0
Cr: GIW XIV	5	6.5-8.0	7.40	72.	11.25	12.4	7.20	178.5	47.5	--	203.0	650.	519.0
	6	13.0-15.5	7.72	102.	11.25	7.4	15.40	221.8	12.0	--	281.0	1020.	390.0
26/VI/72	7	19.5-24.0	7.93	112.	9.85	3.2	19.40	233.7	2.7	--	331.0	1720.	437.0
	8	38.5-43.5	7.65	52.	11.95	0.6	24.50	242.6	53.2	--	352.0	2120.	415.0
	9	67.0-71.5	7.45	12.	12.95	0.2	26.50	244.0	281.0	--	164.0	2710.	364.0
	10	93.0-98.0	7.50	22.	13.30	0.4	28.80	245.3	179.0	--	275.0	2450.	446.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856-C #1	0	0.0-0.0	--	--	--	16.8	3.90	186.2	--	--	5.0	54.	48.0
	1	0.0-2.0	7.24	292.	nd	21.7	6.90	214.1	2.0	--	9.1	495.	135.0
38°56'10"	2	2.0-3.5	7.45	212.	nd	18.3	6.20	229.4	149.0	--	72.3	495.	294.0
76°23'15"	3	3.5-5.0	7.32	222.	nd	5.1	5.40	238.0	69.7	--	86.4	525.	347.0
	4	5.0-7.0	7.20	202.	nd	7.7	9.00	256.2	77.1	--	157.0	525.	437.0
Cr: GIW XIV	5	7.0-9.0	7.25	227.	nd	15.8	11.00	265.8	17.4	--	309.0	825.	483.0
	6	13.5-16.0	7.70	62.	9.85	5.4	23.30	283.2	3.9	--	452.0	1550.	437.0
27/VI/72	7	19.5-24.0	7.80	-3.	9.85	0.9	25.70	291.1	5.2	--	502.0	2030.	448.0
	8	38.5-43.5	7.36	57.	12.30	0.4	27.00	297.7	175.0	--	377.0	2680.	480.0
	9	67.0-71.0	7.27	42.	12.95	0.3	31.30	298.2	434.0	--	237.0	3220.	484.0
	10	94.0-99.0	7.28	57.	12.95	0.3	31.60	300.1	290.0	--	221.0	3190.	567.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 856E	0	0.0-0.0	--	--	--	1.8	0.50	107.5	--	--	--	--	--
	1	0.0-2.0	--	--	--	1 8	5.40	130.8	--	--	--	--	--
38°56'8"	2	2.0-3.5	--	--	--	3.8	2.10	93.8	--	--	--	--	--
76°25'18"	3	3.5-5.0	--	--	--	5.0	2.90	84.8	--	--	--	--	--
	4	5.0-7.5	--	--	--	9.5	6.30	117.9	--	--	--	--	--
Cr: GIW XIV	5	7.5-9.5	--	--	--	12.2	--	169.6	--	--	--	--	--
	6	14.0-17.0	--	--	--	12.2	13.50	222.3	--	--	--	--	--
27/VI/72	7	20.0-25.0	--	--	--	1.1	17.20	229.5	--	--	--	--	--
	8	39.0-44.0	--	--	--	0.6	22.4	245.9	--	--	--	--	--
	9	68.0-73.5	--	--	--	0.3	26.00	248.6	--	--	--	--	--
	10	94.0-100.0	--	--	--	0.6	27.70	248.0	--	--	--	--	--
Station 856E	0	0.0-0.0	--	--	--	7.2	1.50	66.5	--	--	3.5	223.	76.2
	1	0.0-2.0	7.29	292.	nd	7.4	4.00	91.8	--	--	5.3	199.	190.0
38°56'7"	2	2.0-4.0	7.16	272.	nd	5.0	0.90	71.2	2.0	--	20.6	117.	148.0
76°25'15"	3	4.0-5.5	7.16	242.	nd	7.0	2.00	72.5	17.5	--	12.3	129.	188.0
	4	5.5-7.0	7.48	122.	nd	7.5	2.10	88.7	54.3	--	106.0	299.	335.0
Cr: GIW XV	5	7.0-9.0	7.40	2.	nd	5.8	6.30	131.9	310.0	--	241.0	762.	468.0
	6	14.0-16.0	7.47	102.	11.50	10.6	11.50	209.0	220.0	--	280.0	856.	585.0
17/VII/72	7	20.0-24.5	7.68	182.	10.55	7.3	14.20	226.0	8.4	--	326.0	1220.	527.0
	8	39.0-44.0	7.82	-28.	9.55	0.2	22.20	243.0	5.1	--	425.0	1590.	541.0
	9	67.0-73.0	7.47	-8.	12.27	nd	23.20	248.7	177.0	--	262.0	2120.	436.0
	10	94.5-99.5	8.05	-38.	12.60	nd	27.80	250.4	136.0	--	379.0	2340.	555.0
Station 856C	0	0.0-0.0	--	--	nd	10.5	0.10	124.2	--	--	2.0	29.	69.4
	1	0.0-1.5	7.24	262.	nd	10.9	2.30	132.0	0.3	--	2.8	318.	125.0
38°56'10"	2	1.5-3.0	7.19	242.	nd	10.1	3.70	141.5	27.8	--	4.0	723.	124.0
76°23'15"	3	3.0-4.5	7.28	142.	nd	8.2	5.10	133.7	128.0	--	48.7	792.	195.0
	4	4.5-6.5	7.41	62.	nd	9.3	5.60	199.5	155.0	--	149.0	1030.	377.0
Cr: GIW XV	5	6.5-8.5	7.42	32.	12.30	--	12.30	214.2	49.5	--	104.0	1100.	467.0
	6	13.0-16.0	7.48	-138.	8.33	4.8	15.70	267.8	1.8	--	381.0	1440.	579.0
19/VII/72	7	19.0-25.0	7.49	-158.	7.85	2.4	21.00	283.9	1.4	--	436.0	1870.	623.0
	8	38.5-44.5	7.39	-118.	9.20	nd	27.90	293.8	2.3	--	506.0	2970.	532.0
	9	67.0-74.0	7.15	-38.	12.60	nd	31.50	297.4	351.0	--	362.0	4210.	565.0
	10	94.0-100.0	7.30	-18.	12.60	nd	26.70	299.0	412.0	--	317.0	4870.	584.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 845G	0	0.0-0.0	--	--	--	--	0.20	146.8	--	--	5.0	240.	70.3
	1	0.0-2.0	7.52	227.	nd	--	1.50	147.3	14.0	--	10.0	315.	196.0
38°45'6"	2	2.0-3.5	7.05	227.	nd	--	4.10	150.8	87.1	--	10.9	930.	210.0
76°26'6"	3	3.5-5.0	7.16	122.	nd	--	11.40	180.0	202.0	--	91.3	1810.	379.0
	4	5.0-8.0	7.45	-178.	8.70	--	18.40	229.3	8.9	--	421.0	2540.	715.0
Cr: GIW XV	5	8.0-10.0	7.35	-198	8.17	--	22.80	252.7	3.7	--	453.0	2790.	680.0
	6	14.0-17.5	7.35	-198.	8.00	--	28.70	289.3	2.5	--	560.0	4210.	784.0
18/VII/72	7	20.0-25.5	7.44	-193.	7.85	--	31.90	300.0	3.1	--	571.0	4650.	667.0
	8	39.5-46.5	7.40	-173.	8.50	--	32.70	304.7	1.9	--	647.0	5650.	692.0
	9	68.5-75.5	7.26	-83.	11.25	--	41.30	304.2	60.6	--	754.0	7160.	693.0
	10	95.0-102.0	7.23	-58.	11.60	--	44.20	301.0	127.0	--	705.0	7900.	814.0
Station 834G	0	0.0-0.0	--	--	--	--	2.10	165.6	--	--	2.5	--	61.5
	1	0.0-2.0	7.22	267.	nd	--	3.80	160.6	14.4	--	19.7	35.	235.0
38°33'36"	2	2.0-3.5	7.38	262.	nd	--	4.50	162.6	11.7	--	33.2	99.	--
76°26'18"	3	3.5-6.0	7.63	257.	nd	--	3.00	181.3	6.0	--	90.3	174.	395.0
	4	6.0-7.0	7.42	257.	nd	--	6.80	179.7	5.8	--	105.0	255.	318.0
Cr: GIW XV	5	7.0-9.0	7.67	222.	13.00	--	12.30	223.9	1.9	--	235.0	412.	580.0
	6	13.0-19.5	7.79	102.	9.90	--	16.90	283.6	3.4	--	360.0	980.	702.0
17/VII/72	7	19.5-24.0	7.79	122.	10.10	--	24.70	296.8	8.8	--	411.0	1440.	680.0
	8	38.5-44.0	7.76	-53.	9.55	--	30.90	308.2	5.8	--	532.0	2200.	781.0
	9	66.5-73.0	7.49	102.	10.40	--	37.10	311.7	4.0	--	342.0	2370.	775.0
	10	94.5-100.0	7.50	72.	9.90	--	1.20	307.0	3.9	--	465.0	3540.	765.0
Station 818P	0	0.0-0.0	--	--	--	--	1.60	200.0	--	--	26.2	162.	75.2
	1	0.0-2.0	7.48	12.	9.32	--	9.40	243.8	15.3	--	359.0	1370.	580.0
38°18'48"	2	2.0-3.0	7.39	-28.	9.30	--	6.10	221.1	22.0	--	306.0	1390.	490.0
76°17'36"	3	3.0-5.0	7.57	22.	10.56	--	9.40	223.1	23.5	--	274.0	927.	537.0
	4	5.0-8.0	7.33	-158.	8.52	--	13.90	234.8	11.5	--	440.0	1510.	795.0
Cr: GIW XV	5	8.0-9.5	7.35	-168.	8.52	--	21.00	267.6	11.1	--	462.0	2020.	883.0
	6	13.0-17.0	7.30	-163.	8.03	--	21.10	308.5	6.1	--	520.0	3300.	798.0
18/VII/72	7	19.5-24.5	7.35	-143.	8.70	--	28.10	320.7	7.7	--	651.0	4180.	796.0
	8	38.5-45.0	7.18	-68.	11.25	--	34.10	327.9	52.9	--	865.0	6130.	775.0
	9	67.0-72.5	7.43	-48.	11.25	--	40.00	331.5	36.9	--	614.0	5790.	746.0
	10	94.0-100.0	7.73	-118.	9.72	--	40.00	332.9	12.9	--	467.0	4020.	758.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 922Y	0	0.0-0.0	--	--	nd	1.8	0.50	13.6	0.0	2.7	2.1	nd	20.5
	1	0.0-3.0	7.32	238	nd	2.0	2.40	14.4	0.0	112.9	2.1	110	94.8
39°22'15"	2	3.0-4.0	7.54	215	nd	1.6	4.70	13.2	0.0	74.7	14.9	450	282.0
76°7'40"	3	4.0-6.0	7.54	268	nd	1.2	6.80	17.4	1.3	51.0	61.5	600	698.0
	4	6.0-8.0	7.52	258	6.24	0.5	7.60	27.9	1.4	58.3	117.0	810	820.0
Cr: GIW XVI	5	8.0-10.0	7.50	190	6.09	1.2	8.30	33.6	3.8	80.1	126.0	750	974.0
	6	13.5-16.5	7.28	263	nd	1.3	11.00	34.1	13.2	102.0	148.0	1140	1050.0
Date: 18/VIII/72	7	19.5-24.0	7.19	223	nd	0.4	12.60	49.3	62.5	136.6	168.0	1580	1170.0
	8	38.0-42.0	7.11	228	nd	0.5	16.90	58.0	157.0	205.8	256.0	2470	1100.0
	9	64.0-72.5	7.24	242	nd	0.4	21.80	74.6	2110.0	178.5	304.0	3740	1060.0
	10	93.5-99.0	7.19	232	nd	0.6	28.20	79.7	194.0	169.4	242.0	4930	1140.0
Station: 914S	0	0.0-0.0	--	--	nd	9.9	1.90	95.7	--	9.1	3.0	nd	47.0
	1	0.0-2.0	6.92	449	nd	9.1	2.30	90.1	4.6	260.5	5.6	140	170.0
39°14'6"	2	2.0-4.0	7.06	410	nd	8.1	2.80	85.3	75.2	240.4	12.4	160	277.0
76°14'42"	3	4.0-5.0	7.38	403	nd	5.5	4.00	77.7	30.2	238.6	24.9	260	338.0
	4	5.0-7.0	7.68	392	nd	2.2	6.40	68.0	19.7	182.1	82.4	470	406.0
Cr: GIW XVI	5	7.0-9.5	7.64	380	nd	0.7	8.20	59.7	15.4	178.5	129.0	680	608.0
	6	13.0-16.0	7.67	225	nd	0.3	15.80	76.5	61.5	185.8	196.0	1420	476.0
Date:18/VIII/72	7	19.0-24.0	7.49	192	nd	0.4	19.60	121.2	143.0	143.9	172.0	2260	490.0
	8	38.0-43.0	7.32	180	nd	0.3	23.20	165.1	689.0	105.6	141.0	4720	503.0
	9	59.0-64.0	7.32	189	nd	0.2	27.40	169.1	378.0	202.2	136.0	5400	453.0
	10	86.0-91.0	7.28	188	nd	0.2	26.90	177.8	561.0	28.2	95.2	5860	372.0
Station: 904N	0	0.0-0.0	--	--	nd	17.3	--	169.9	--	19.7	0.8	40	53.7
	1	0.0-2.0	7.52	370	nd	17.1	3.40	200.2	188.0	783.2	22.1	630	191.0
39°3'52"	2	2.0-3.5	7.32	368	nd	13.6	5.70	200.4	403.0	837.9	22.1	1040	199.0
76°19'20"	3	3.5-5.5	7.20	368	nd	6.5	15.10	186.4	558.0	701.3	21.3	1660	212.0
	4	5.5-7.5	7.48	357	nd	1.8	21.90	173.8	698.0	819.7	137.0	2230	380.0
Cr: GIW XVI	5	7.5-9.5	7.44	360	nd	0.7	24.40	171.6	755.0	755.9	101.0	2790	490.0
	6	14.0-17.5	7.49	180	nd	0.3	33.90	203.6	676.0	500.9	166.0	4090	--
Date:8/VIII/72	7	20.0-25.5	7.39	186	nd	0.4	33.50	224.9	185.0	783.2	297.0	4520	710.0
	8	38.5-43.5	7.38	182	nd	0.2	34.40	245.8	669.0	428.1	208.0	5440	663.0
	9	67.5-73.0	7.44	165	nd	0.0	33.80	249.6	718.0	163.9	159.0	4860	629.0
	10	94.0-99.0	7.35	172	nd	0.2	32.90	252.7	836.0	255.0	164.0	4180	542.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 856-C	0	0.0-0.0	--	--	nd	28.7	1.00	302.1	--	14.6	3.6	110	56.7
	1	0.0-2.0	7.34	--	nd	24.1	7.20	294.0	130.0	163.9	151.0	1000	--
38°55'59"	2	2.0-3.5	7.22	--	nd	14.1	15.30	276.1	707.0	956.3	84.9	1400	283.0
76°23'22"	3	3.5-4.5	7.04	--	nd	10.2	15.90	237.4	1190.0	737.7	24.1	1690	--
	4	4.5-7.0	7.24	--	nd	1.3	26.40	233.4	593.0	491.8	238.0	2120	505.0
Cr: GIW XVI	5	7.0-8.5	7.74	--	nd	1.4	24.50	233.2	83.4	422.6	306.0	2030	781.0
	6	14.0-16.5	7.46	--	10.42	0.0	29.50	272.9	7.8	342.4	640.0	2720	840.0
Date:22/VIII/72	7	19.5-25.0	7.37	--	11.27	0.2	30.00	283.4	3.6	415.3	736.0	3550	788.0
	8	38.5-44.5	7.03	--	nd	0.4	36.40	296.0	219.0	291.4	660.0	4980	750.0
	9	67.5-72.5	6.96	--	nd	0.1	41.50	295.2	592.0	153.0	364.0	6120	684.0
	10	93.5-99.0	6.99	--	nd	0.0	41.90	293.8	914.0	287.8	203.0	6620	490.0
Station: 856E	0	0.0-0.0	--	--	nd	0.0	--	--	--	27.1	8.5	80	--
	1	0.0-2.0	6.80	95	nd	15.5	3.90	192.7	83.7	147.5	44.7	430	265.0
38°56'7"	2	2.0-4.0	7.31	70	nd	14.4	5.30	189.7	140.0	231.3	53.6	600	334.0
76°25'15"	3	4.0-5.5	7.26	70	nd	14.4	4.70	188.5	212.0	284.2	35.9	550	309.0
	4	5.5-7.5	7.33	70	nd	8.4	7.80	177.1	94.6	229.5	116.0	740	556.0
Cr: GIW XVI	5	7.5-8.0	7.40	70	nd	9.1	7.00	169.6	66.2	184.0	104.0	720	555.0
	6	13.5-17.0	6.87	155	nd	10.9	9.30	181.8	8.8	103.8	260.0	760	703.0
Date:15/VIII/72	7	19.5-25.5	7.60	15	12.62	10.0	10.30	220.5	6.4	138.4	293.0	960	579.0
	8	38.5-44.0	7.85	-160	10.75	1.6	21.00	244.9	3.2	107.5	361.0	1660	593.0
	9	67.0-74.0	7.55	-45	nd	0.4	24.50	256.4	143.0	169.4	276.0	2080	654.0
	10	93.0-99.0	7.60	-35	nd	0.5	27.50	257.0	119.0	171.2	346.0	2100	637.0
Station: 853R	0	0.0-0.0	--	--	nd	24.4	1.80	252.0	--	25.5	5.7	50	73.3
	1	0.0-2.0	7.14	--	12.11	37.9	5.10	238.4	3.0	107.5	140.0	410	318.0
38°52'45"	2	2.0-4.0	7.64	--	11.68	31.4	6.30	230.8	1.7	142.1	221.0	620	442.0
76°15'15"	3	4.0-5.5	7.68	--	11.52	10.5	10.60	213.9	2.8	145.7	218.0	790	580.0
	4	5.5-7.5	7.46	--	11.70	9.4	9.10	203.7	2.8	89.3	131.0	760	--
Cr: GIW XVI	5	7.5-9.0	7.32	--	11.33	8.5	9.10	192.9	2.5	74.7	113.0	690	684.0
	6	14.0-16.0	7.49	--	10.08	6.9	10.30	179.9	2.0	56.5	208.0	760	--
Date:21/VIII/72	7	20.0-24.5	7.48	--	9.17	5.2	15.00	210.1	3.6	27.3	252.0	1140	--
	8	39.0-44.0	7.43	--	9.24	0.4	23.80	241.2	2.7	1.1	284.0	1700	917.0
	9	68.0-73.5	7.38	--	9.64	0.1	24.80	243.8	2.0	3.1	327.0	2180	--
	10	94.0-99.0	7.32	--	9.85	0.3	27.20	242.2	3.2	2.0	352.0	2390	1035.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 845G	0	0.0-0.0	--	--	nd	27.6	2.20	302.0	--	9.3	3.6	nd	54.7
	1	0.0-2.0	7.55	--	12.42	20.8	10.20	303.6	7.3	47.4	161.0	920	271.0
38°45'6"	2	2.0-4.5	7.47	--	nd	18.9	11.10	301.4	195.0	154.8	208.0	880	442.0
76°26'0"	3	4.5-6.0	7.29	--	nd	17.8	9.30	284.4	185.0	176.7	189.0	810	679.0
	4	6.0-7.5	7.57	--	12.62	18.2	9.30	275.4	15.5	131.1	184.0	710	740.0
Cr: GIW XVI	5	7.5-9.5	7.55	--	12.05	18.7	8.30	268.9	5.9	83.8	181.0	680	740.0
	6	13.5-15.5	7.67	--	11.09	17.1	11.90	270.5	8.7	49.2	224.0	760	823.0
Date:21/VIII/72	7	19.5-24.5	7.50	--	10.51	14.0	15.10	292.1	5.1	18.2	238.0	1040	1030.0
	8	38.5-43.5	7.67	--	9.84	6.5	20.90	299.8	4.9	1.5	296.0	1510	762.0
	9	67.0-72.5	7.57	--	9.75	5.2	23.40	294.8	6.7	7.3	306.0	1740	876.0
	10	93.5-99.5	7.60	--	9.83	2.3	26.20	290.6	7.4	13.7	338.0	1920	853.0
Station: 834G	0	0.0-0.0	--	--	nd	30.0	3.00	309.5	--	7.3	1.7	120	52.7
	1	0.0-2.0	7.09	-113	12.68	26.4	10.80	299.2	130.0	94.7	104.0	520	371.0
38°33'50"	2	2.0-3.5	7.43	-170	11.89	22.7	15.40	283.7	707.0	83.8	103.0	600	545.0
76°26'33"	3	3.5-5.0	7.58	-187	10.31	19.7	22.00	269.3	1190.0	34.1	117.0	940	680.0
	4	5.0-7.0	7.50	-184	9.84	18.5	23.00	271.6	593.0	27.9	96.7	750	707.0
Cr: GIW XVI	5	7.0-9.0	7.53	-202	10.81	17.9	22.80	271.1	83.4	19.7	181.0	1190	791.0
	6	13.5-17.0	7.79	-255	9.32	9.0	24.00	294.6	7.8	5.5	283.0	2090	852.0
Date:17/VIII/72	7	20.0-25.0	7.65	-255	9.11	3.6	29.10	305.9	3.6	6.9	355.0	2500	906.0
	8	38.5-43.5	7.75	-239	9.27	0.1	35.80	311.4	219.0	45.5	501.0	3670	907.0
	9	67.0-73.5	7.70	-184	11.02	0.0	39.70	310.0	592.0	87.4	556.0	5030	886.0
	10	93.5-100.0	7.49	-105	nd	0.6	42.30	309.1	914.0	160.3	551.0	5900	892.0
Station: 818S	0	0.0-0.0	--	--	--	31.5	2.00	317.5	--	6.0	4.5	30	54.7
	1	0.0-3.0	7.55	-322	11.55	23.4	6.40	329.3	8.0	109.3	198.0	600	422.0
38°18'48"	2	3.0-5.0	7.30	-256	11.76	15.4	13.60	324.8	10.6	184.0	366.0	1420	972.0
76°13'35"	3	5.0-8.0	7.30	-228	11.62	6.1	19.20	314.1	11.8	143.9	437.0	1780	1050.0
	4	8.0-10.0	7.27	-224	11.44	2.7	22.00	304.3	11.4	102.0	412.0	2340	1030.0
Cr: GIW XVI	5	10.0-12.0	--	--	--	2.2	25.00	301.1	--	--	--	--	960.0
	6	18.0-20.5	7.49	-175	8.81	6.4	30.80	314.6	10.8	72.9	527.0	2910	1020.0
Date:17/VIII/72	7	20.5-25.0	7.44	-170	8.80	0.0	33.10	325.0	9.9	30.8	598.0	3760	1000.0
	8	39.0-43.5	7.48	-150	9.47	0.3	39.40	333.0	8.8	6.2	534.0	4410	940.0
	9	68.0-75.0	7.40	-225	10.14	0.0	39.60	335.9	2.4	19.3	662.0	4780	902.0
	10	95.0-100.0	7.44	1	11.83	0.3	43.20	336.1	46.6	83.8	643.0	5700	875.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 804C	0	0.0-0.0	--	--	--	26.9	1.50	318.8	--	10.6	28.7	190	104.0
	1	0.0-2.0	7.60	-204	11.22	22.3	4.30	320.0	11.8	53.4	287.0	1120	476.0
38°4'48"	2	2.0-3.0	7.40	-212	11.10	14.4	6.10	314.7	7.9	122.0	411.0	1360	1150.0
76°12'38"	3	3.0-5.0	7.43	-218	11.44	4.6	7.30	302.0	11.5	165.8	462.0	1920	1130.0
	4	5.0-6.5	7.48	-218	11.52	6.5	8.20	295.2	10.6	123.9	389.0	2030	1130.0
Cr: GIW XVI	5	6.5-10.0	7.48	-218	11.14	6.2	12.40	296.9	8.6	69.2	313.0	1900	1050.0
	6	14.0-18.0	7.30	-215	10.89	0.2	21.60	314.9	7.4	27.1	314.0	1940	946.0
Date:17/VIII/72	7	20.5-25.0	7.27	-230	10.40	0.0	28.20	329.9	5.6	4.0	309.0	2340	930.0
	8	39.0-44.0	7.41	-232	10.53	0.1	35.80	336.1	4.9	6.9	409.0	3260	826.0
	9	67.0-73.0	7.48	-205	11.05	0.0	39.20	337.5	5.0	8.2	505.0	3960	918.0
	10	94.0-99.0	7.58	-170	12.23	0.1	44.10	338.6	1.5	6.2	508.0	4410	856.0
Station: 744A	0	0.0-0.0	--	--	--	29.7	0.90	319.2	--	4.7	11.4	60	79.0
	1	0.0-2.0	7.45	-92	12.70	23.9	9.10	318.1	37.2	11.8	205.0	920	739.0
37°45'12"	2	2.0-4.0	7.33	-135	12.41	15.6	8.60	328.3	25.6	15.5	290.0	1000	810.0
76°11'28"	3	4.0-5.5	7.35	-220	11.50	12.6	16.20	330.2	8.2	43.9	534.0	1980	985.0
	4	5.5-8.0	7.30	-237	11.62	3.8	21.80	324.9	8.9	82.1	637.0	2210	1240.0
Cr: GIW XVI	5	8.0-10.0	7.12	-235	11.82	0.3	26.60	321.5	11.1	77.0	560.0	2390	1290.0
	6	13.5-17.0	7.38	-170	9.44	5.6	25.80	326.9	7.3	12.9	358.0	2210	1060.0
Date:16/VIII/72	7	20.0-24.0	7.56	-180	8.89	7.5	22.70	339.7	6.4	6.7	218.0	1950	813.0
	8	38.5-44.0	7.71	-200	8.19	7.7	25.70	356.0	5.6	1.1	146.0	1990	840.0
	9	67.0-74.0	7.74	-210	7.84	0.3	26.90	366.4	6.4	0.9	123.0	2840	834.0
	10	93.0-100.0	7.48	-200	8.36	0.2	37.50	365.1	32.0	0.9	178.0	3250	834.0
Station: 724R	0	0.0-0.0	--	--	nd	37.0	1.70	377.0	--	1.8	3.3	nd	28.3
	1	0.0-1.5	7.24	55	nd	36.0	2.60	367.2	91.0	71.0	62.1	1830	397.0
37°23'36"	2	1.5-3.5	7.44	30	nd	35.9	2.40	369.6	81.0	31.5	42.6	2860	412.0
76°4'42"	3	3.5-6.0	7.57	35	nd	34.3	3.60	365.0	34.6	23.0	88.2	2860	575.0
	4	6.0-7.5	7.48	23	nd	33.7	5.00	363.8	93.1	--	176.0	3500	695.0
Cr: GIW XVI	5	7.5-9.0	7.42	2	nd	28.2	--	366.1	122.0	--	232.0	4380	813.0
	6	13.5-16.5	7.25	-335	10.98	17.0	9.10	397.6	8.2	39.0	601.0	2180	1020.0
Date:16/VIII/72	7	19.5-24.0	7.43	-270	10.78	17.6	19.60	406.4	8.7	27.3	470.0	2280	981.0
	8	38.0-43.5	7.66	-244	10.97	25.9	10.00	390.6	2.3	1.8	222.0	2440	826.0
	9	67.0-72.5	7.70	-203	10.14	0.5	36.20	431.4	3.7	0.9	326.0	3330	786.0
	10	82.0-90.0	7.65	-200	10.03	0.9	38.30	430.6	6.7	1.5	321.0	3580	815.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 904-N #1	0	0.0-0.0	--	--	--	21.4	--	--	--	--	1.2	131.	28.9
	1	1.0-4.0	7.55	-40.	nd	0.4	--	--	809.0	--	147.0	5900.	641.0
39°03'52"	2	4.0-8.0	7.81	-166.	nd	1.0	--	--	960.0	--	90.6	5300.	502.0
76°19'20"	3	9.0-19.0	7.68	-128.	nd	3.1	--	--	420.0	--	93.1	2560.	373.0
	4	19.0-21.0	7.37	-100.	nd	3.2	--	--	850.0	--	88.6	4150.	491.0
Cr: GIW XVII	5	21.0-27.0	7.58	-73.	nd	14.4	--	--	134.0	--	46.6	101.	218.0
	6	28.0-36.0	7.20	-60.	nd	0.4	--	--	781.0	--	143.0	6270.	608.0
18/XII/72	7	36.0-41.0	7.32	-68.	nd	0.3	--	--	687.0	--	127.0	5240.	631.0
	8	45.0-50.0	7.29	-73.	nd	0.6	--	--	711.0	--	178.0	6630.	642.0
	9	50.0-55.0	7.54	-100.	nd	0.6	--	--	853.0	--	136.0	6830.	642.0
	10	57.0-59.0	7.59	-98.	nd	0.9	--	--	733.0	--	195.0	6540.	576.0
Station 856-C #1	0	0.0-0.0	--	--	--	21.8	--	--	--	--	3.3	150.	39.6
	1	0.0-3.0	7.50	213.	nd	15.0	--	--	295.0	--	250.0	2470.	638.0
38°56'6"	2	4.0-9.0	7.68	180.	nd	13.6	--	--	282.0	--	294.0	2690.	706.0
76°23'27"	3	10.0-13.0	7.52	167.	nd	7.2	--	--	36.4	--	57.1	1350.	341.0
	4	13.0-15.0	7.34	148.	nd	2.3	--	--	209.0	--	431.0	4110.	686.0
Cr: GIW XVII	5	15.0-16.0	7.33	117.	nd	1.2	--	--	249.0	--	340.0	4260.	705.0
	6	16.0-29.0	7.25	177.	nd	1.0	--	--	89.8	--	132.0	1215.	348.0
19/XII/72	7	30.0-45.0	7.48	82.	nd	0.7	--	--	360.0	--	137.0	1975.	411.0
	8	60.5-62.0	7.50	12.	nd	0.7	--	--	96.6	--	538.0	3040.	742.0
	9	90.0-95.0	7.54	20.	nd	0.5	--	--	71.1	--	604.0	3300.	713.0
	10	95.0-100.0	--	--	--	0.6	--	--	54.7	--	637.0	3610.	739.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 926S	0	0.0-0.0	--	--	--	--	0.77	1.6	nd	--	--	644.	--
	1	0.0-1.8	7.23	22.	nd	--	5.21	4.2	109.6	--	8.6	237.	--
39°26'31"	2	1.8-5.4	7.38	19.	nd	--	6.54	6.8	82.5	--	12.1	612.	--
76°1'30"	3	5.4-7.1	7.43	42.	nd	--	6.97	--	27.0	--	13.4	112.	--
	4	7.1-9.2	7.14	45.	nd	--	5.91	10.4	71.6	--	60.0	nd	--
Cr: CBASS I	5	9.2-11.5	7.08	22.	nd	--	6.67	12.7	128.0	--	89.0	450.	--
	6	11.5-14.6	7.18	157.	nd	--	7.75	15.2	261.4	--	78.5	930.	--
18/VI/73	7	19.2-23.7	6.94	107.	nd	--	9.11	20.1	501.9	--	70.8	1315.	--
	8	38.5-43.0	7.26	97.	nd	--	12.15	28.2	482.9	--	77.2	2086.	--
	9	60.0-67.0	7.23	107.	nd	--	15.30	34.7	539.3	--	86.9	3141.	--
	10	93.0-101.0	7.06	112.	nd	--	21.39	40.6	545.2	--	155.0	4010.	--
Station 856C	0	0.0-0.0	--	--	--	--	1.15	--	nd	--	--	62.	--
	1	0.0-2.0	7.24	-18.	nd	--	10.88	--	287.0	--	177.0	1153.	--
38°56'6"	2	2.0-4.0	7.10	7.	nd	--	15.66	--	461.0	--	157.0	2719.	--
76°23'21"	3	4.0-6.0	7.10	7.	nd	--	18.20	--	516.0	--	152.0	2557.	--
	4	6.0-9.0	7.25	1.	nd	--	22.98	--	374.0	--	275.0	3697.	--
Cr: CBASS I	5	9.0-12.0	7.46	-98.	11.95	--	25.31	--	4.9	--	392.0	2549.	--
	6	14.0-16.7	7.18	-98.	10.02	--	28.43	--	5.4	--	473.0	2670.	--
19/VI/73	7	19.5-23.4	7.76	-93.	10.02	--	29.31	--	3.9	--	493.0	2752.	--
	8	38.5-44.5	7.28	-33.	13.63	--	30.91	--	162.0	--	477.0	3815.	--
	9	67.0-75.0	7.52	-38.	14.71	--	35.41	--	432.0	--	282.0	5470.	--
	10	93.8-101.5	7.38	-43.	nd	--	38.87	--	512.0	--	219.0	6225.	--
Station 724R	0	0.0-0.0	--	--	--	--	3.56	--	--	--	--	--	--
	1	0.0-2.0	7.18	-4.	nd	--	6.80	--	100.6	--	136.5	428.	--
37°23'36"	2	2.0-4.0	7.32	-16.	nd	--	8.86	--	174.6	--	340.0	753.	--
76°4'42"	3	4.0-6.5	7.22	-19.	nd	--	9.99	--	130.9	--	313.0	715.	--
	4	6.5-8.5	7.14	-41.	13.10	--	9.58	--	43.5	--	275.0	710.	--
Cr: CBASS I	5	8.5-11.0	7.18	-54.	12.91	--	10.77	--	49.2	--	337.0	855.	--
	6	13.5-15.5	7.25	-78.	10.10	--	15.42	--	10.6	--	494.0	1365.	--
19/VI/73	7	19.5-23.0	7.59	-118.	9.65	--	21.00	--	13.6	--	647.0	2060.	--
	8	38.0-42.5	7.62	-118.	9.83	--	26.20	--	13.6	--	775.0	3018.	--
	9	66.5-73.5	7.79	-138.	9.65	--	29.73	--	8.4	--	457.0	2687.	--
	10	89.0-96.0	7.77	-158.	8.75	--	39.95	--	7.7	--	455.0	3465.	--

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol	Org C ppm
Station: 927RR	0	0.0-0.0	--	--	--	1.7	1.02	5.4	0.0	3.8	2.7	nd	28.6	12
	1	0.0-2.0	7.26	40	nd	0.2	6.74	3.6	80.0	273.2	7.4	503	237.4	19
39°27'0"	2	2.0-4.5	7.27	-13	nd	0.2	8.77	4.6	334.6	182.1	15.5	755	319.5	--
76°2'0"	3	4.5-6.5	7.18	2	nd	0.1	9.29	5.9	437.3	269.6	16.2	1001	331.6	24
	4	6.5-8.7	7.14	17	nd	0.1	9.50	7.8	297.1	184.0	16.9	1030	343.9	28
Cr: CBASS II	5	8.7-10.7	7.11	24	nd	0.1	9.03	9.3	194.4	204.0	32.4	938	340.0	19
	6	15.0-17.4	7.10	81	nd	0.2	8.07	13.9	357.5	127.5	43.9	904	444.3	20
Date 25/IX/73	7	22.4-25.8	6.93	71	nd	0.1	8.32	18.0	580.6	123.9	60.8	1264	507.9	20
	8	31.7-34.2	7.03	63	nd	0.1	8.33	21.9	564.9	107.5	61.8	2483	565.1	23
	9	48.8-53.0	6.99	71	nd	0.1	11.41	27.3	576.3	56.5	57.6	1613	599.9	30
	10	68.8-74.4	7.08	61	nd	0.1	12.88	32.1	545.7	38.3	76.6	3003	624.5	36
	11	200.0-225.0	7.41	52	--	6.1	--	47.3	502.3	--	--	--	823.0	50
Station: 919T	0	0.0-0.0	--	--	--	17.3	0.53	166.4	0.0	2.9	2.0	nd	43.3	8
	1	0.0-2.1	6.68	22	nd	15.4	2.12	159.5	254.1	260.5	29.7	217	204.2	22
39°19'0"	2	2.1-4.4	7.10	13	nd	13.5	3.46	160.3	260.2	413.5	46.0	338	231.0	30
76°13'0"	3	4.4-6.5	7.12	-7	nd	10.8	4.40	151.8	67.2	327.9	29.1	475	216.5	29
	4	6.5-8.5	7.17	52	nd	8.6	5.50	142.5	77.1	291.4	29.7	503	235.1	23
Cr.: CBASS II	5	8.5-10.6	7.25	32	nd	5.2	6.81	129.5	88.5	264.1	33.8	641	259.8	25
	6	15.0-18.0	7.01	169	nd	1.1	11.30	116.0	31.0	82.0	35.1	1390	251.6	27
Date: 25/IX/73	7	21.0-24.0	6.80	-18	9.93	0.6	15.79	130.8	27.2	71.0	41.2	2483	263.9	30
	8	38.0-42.5	6.79	69	nd	0.4	23.07	170.0	667.2	25.5	40.2	5606	325.8	60
	9	60.0-65.7	6.79	91	nd	0.4	25.99	185.4	581.0	16.4	61.3	7265	346.4	85
	10	88.3-94.0	6.94	82	nd	0.3	29.36	194.1	624.2	16.4	103.0	8753	439.1	102

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol	Org C ppm
Station: 904N	0	0.0-0.0	--	--	--	23.7	1.24	279.2	5.4	--	4.8	63	47.1	11
	1	0.0-3.5	7.56	-42	11.80	5.9	18.91	240.8	11.5	533.7	258.3	1848	403.4	59
39°3'52"	2	3.5-5.8	7.49	-18	nd	1.7	23.63	230.6	555.9	397.1	168.5	2803	303.0	67
76°19'20"	3	5.8-8.3	7.39	-20	nd	1.0	25.45	220.6	495.0	417.1	72.9	3375	387.0	68
	4	8.3-10.6	7.39	5	nd	0.5	29.00	214.5	558.8	471.8	81.4	3696	370.6	68
Cr: CBASS II	5	10.6-130.0	7.22	-16	nd	0.5	29.88	217.3	350.7	493.6	133.1	3919	499.5	64
	6	17.0-20.4	7.22	80	nd	0.6	31.94	225.2	530.5	437.2	216.6	4748	606.0	51
Date: 25/IX/73	7	25.0-28.2	7.20	81	nd	0.4	32.84	233.8	570.4	209.5	118.3	4748	565.1	52
	8	38.7-43.0	7.21	96	nd	0.5	32.73	245.6	500.9	424.4	234.0	4005	589.7	39
	9	68.0-74.0	7.32	81	nd	0.4	31.14	254.2	495.0	388.0	184.9	3661	489.4	41
	10	95.5-101.0	7.43	62	nd	0.2	29.41	257.6	569.0	43.7	114.1	4005	464.8	45
Station: 856C	0	0.0-0.0	--	--	--	27.4	1.92	269.7	0.7	67.4	5.3	130	53.2	9
	1	0.0-2.0	7.78	62	nd	14.0	15.54	290.3	6.3	519.1	143.7	nd	297.2	34
38°56'10"	2	2.0-4.5	7.56	-38	nd	2.1	25.48	290.5	46.6	280.5	305.9	1919	375.1	52
76°23'10"	3	4.5-7.0	7.44	-38	nd	1.3	27.02	280.4	599.1	409.8	139.5	2720	358.6	56
	4	7.0-9.0	7.30	-28	nd	0.7	30.42	273.2	561.1	510.0	280.0	3330	641.5	51
Cr: CBASS II	5	9.0-11.0	7.30	-14	nd	0.6	31.26	270.3	391.2	743.2	459.6	3668	743.8	54
	6	15.0-18.0	7.28	84	nd	1.3	32.35	277.5	255.9	573.8	681.5	3386	797.2	34
Date: 26/IX/73	7	23.0-26.0	7.40	63	nd	1.6	32.46	281.8	231.7	391.6	634.0	3047	661.9	34
	8	51.5-55.5	7.48	83	nd	0.8	32.95	293.2	278.3	244.1	301.1	2935	616.8	35
	9	75.5-81.0	7.65	39	nd	0.4	34.84	295.9	600.5	178.5	169.1	3781	534.8	37
	10	110.0-116.0	7.52	32	nd	0.3	34.81	297.8	486.0	351.5	240.9	4063	588.1	41
Station: 848E	0	0.0-0.0	--	--	--	27.8	3.36	274.0	2.9	--	12.1	149	9.5	5
	1	0.0-2.0	7.08	-139	10.70	7.6	26.91	291.4	8.2	233.2	501.0	372	555.3	36
38°48'0"	2	2.0-4.0	7.08	-158	7.20	4.8	31.66	293.9	5.7	227.7	542.5	499	608.7	41
76°25'0"	3	4.0-6.0	7.03	-134	11.71	4.8	35.50	284.5	28.0	431.7	450.9	655	680.4	52
	4	6.0-8.0	7.03	-108	12.06	4.1	34.79	284.7	29.0	455.4	461.3	647	657.8	49
Cr: CBASS II	5	8.0-10.0	7.12	-40	nd	0.4	44.42	276.6	586.2	573.8	172.0	833	729.5	60
	6	20.2-24.7	6.95	-14	nd	0.8	51.92	286.4	197.5	646.6	696.6	990	809.4	35
Date: 28/IX/73	7	36.8-40.3	7.01	1	nd	0.9	56.90	299.3	404.7	697.6	479.2	1012	854.5	39
	8	55.0-60.0	7.09	-14	nd	0.8	60.73	301.6	311.6	816.0	691.9	1116	776.6	35
	9	76.2-85.2	7.08	-2	nd	0.7	62.65	301.0	375.1	626.6	656.9	1212	719.3	37
	10	101.0-108.0	6.89	1	nd	0.4	64.05	299.2	475.1	495.4	401.7	1295	715.2	37

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol	Org C ppm
Station: 834-G	0	0.0-0.0	--	--	--	22.7	1.65	227.7	nd	2.6	2.6	28	47.4	5
	1	0.0-3.0	7.49	-28	11.86	19.8	7.15	257.4	11.1	28.1	178.0	456	542.3	12
38°33'36"	2	3.0-5.0	7.60	-68	11.57	17.6	8.83	256.3	12.4	37.2	210.8	578	564.9	14
76°26'18"	3	5.0-7.0	7.67	-119	11.20	16.0	9.69	253.2	5.4	42.6	163.8	628	598.0	16
	4	7.0-9.0	7.56	-140	10.90	15.2	10.76	248.9	4.1	39.5	160.6	639	647.5	16
Cr: CBASS II	5	9.0-11.0	7.48	-139	10.80	15.8	9.36	245.4	3.0	32.8	163.8	628	688.7	16
	6	21.0-23.5	7.68	-48	13.08	15.5	13.65	259.4	16.8	10.7	216.6	750	676.2	17
Date: 26/IX/73	7	50.5-53.0	7.70	-76	12.69	12.2	17.02	282.5	13.8	9.5	180.7	939	68817	19
	8	90.0-94.0	7.73	-96	11.25	12.1	17.21	286.5	7.2	11.1	100.9	822	690.7	15
	9	139.0-151.0	7.65	-120	12.11	18.8	12.95	290.7	22.0	12.6	57.6	572	647.5	16
	10	208.0-219.0	7.64	-165	10.59	22.9	10.94	294.3	8.6	--	48.6	428	633.0	--
Station: 818P	0	0.0-0.0	--	--	--	32.6	1.68	324.3	0.7	6.2	6.9	60	36.9	5
	1	1.0-2.0	7.28	-126	9.96	26.9	7.10	317.7	4.8	69.2	164.3	530	534.8	16
38°18'48"	2	2.0-4.5	7.31	-130	9.68	19.5	11.97	323.5	1.8	12.6	224.5	881	721.3	17
76°17'36"	3	4.5-6.5	7.56	-148	9.32	15.0	17.33	323.9	1.4	14.0	270.5	1305	762.3	20
	4	6.5-8.5	7.47	-158	9.12	11.0	20.57	318.6	0.9	14.0	298.0	1603	801.2	24
Cr: CBASS II	5	8.5-10.5	7.47	-166	9.38	9.2	22.86	318.7	2.5	14.0	359.2	1861	805.4	27
	6	20.0-23.0	7.48	-216	8.74	1.7	--	323.4	1.4	10.9	443.8	2629	805.4	30
Date: 28/IX/73	7	50.5-53.5	7.42	-180	10.25	3.6	34.44	336.3	1.6	0.9	313.8	3099	729.5	26
	8	90.0-94.5	7.48	-187	10.23	4.9	29.06	337.7	1.4	11.8	150.6	2172	668.1	15
	9	350.0-360.0	7.78	-106	11.87	1.1	24.02	346.5	--	20.8	206.0	4053	620.8	30
	10	399.0-409.0	7.42	-98	10.92	5.3	21.86	347.5	11.1	16.4	140.5	3444	600.4	25
Station: 804C	0	0.0-0.0	--	--	--	32.4	1.56	328.0	0.9	5.1	8.5	60	45.4	8
	1	0.0-2.0	7.38	-123	10.04	17.4	13.65	317.6	2.5	31.0	297.4	1845	618.5	27
38°4'48"	2	2.0-4.0	7.42	-130	10.06	8.3	16.32	315.5	4.8	49.2	340.8	1578	756.8	26
76°25'0"	3	4.0-5.5	7.32	-160	9.78	5.3	26.28	318.3	3.4	43.7	50.2	2580	896.9	37
	4	5.5-7.5	7.21	-164	9.75	3.1	28.40	317.6	9.3	45.5	55.5	2941	936.2	33
Cr: CBASS II	5	7.5-9.5	7.35	-166	9.55	3.3	29.29	315.2	3.4	43.7	57.1	3476	932.0	40
	6	20.0-23.0	7.41	-203	11.30	1.7	30.35	315.3	7.0	2.9	41.2	3870	818.5	29
Date: 27/IX/73	7	50.0-53.5	7.49	-243	8.05	1.8	34.46	332.1	5.4	0.7	31.7	3904	791.8	36
	8	99.5-105.0	7.46	-170	11.19	0.6	37.72	334.4	6.1	0.9	273.1	3643	764.9	36
	9	181.0-191.0	7.31	-161	10.12	0.0	35.44	339.9	3.4	1.5	159.5	2774	748.5	35
	10	450.0-460.0	7.39	-166	11.22	0.8	35.50	349.9	3.0	2.0	163.8	2627	707.2	37

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol	Org C ppm
Station: 744A	0	0.0-0.0	--	--	--	84.7	1.52	339.9	0.2	2.4	nd	94	41.3	7
	1	0.0-2.0	7.10	327	nd	35.1	2.35	351.6	11.3	29.1	116.8	178	488.7	23
34°45'12"	2	2.0-4.5	6.88	-38	12.22	30.8	1.67	344.0	8.4	10.9	56.0	217	548.5	18
76°36'11"	3	4.5-7.0	7.23	-70	11.79	31.8	2.33	340.6	10.6	11.5	59.7	278	579.4	21
	4	7.0-9.2	7.08	-98	11.79	32.0	2.94	344.8	6.1	6.0	49.7	267	560.9	18
Cr: CBASS II	5	9.2-12.0	6.53	-98	12.05	31.6	5.07	341.4	1.8	2.9	76.1	378	670.1	26
	6	20.0-23.0	7.08	-132	11.64	16.4	16.89	342.1	5.9	3.8	140.0	1011	659.8	19
Date: 26/IX/73	7	50.0-53.0	7.00	-155	12.13	15.0	31.62	343.0	19.9	0.7	163.2	1322	715.5	23
	8	89.5-94.0	7.30	-178	11.18	2.7	38.32	361.6	15.6	1.3	165.4	2533	711.3	31
	9	115.0-125.0	7.38	-148	11.59	11.5	43.70	359.8	2.5	1.5	369.3	4094	738.2	57
	10	215.0-225.0	7.22	144	nd	0.6	46.09	366.8	10.9	3.5	353.4	4139	730.0	47
Station: 724R	0	0.0-0.0	--	--	--	52.8	1.77	433.7	0.2	2.0	2.6	7	16.5	7
	1	0.0-2.5	7.28	160	nd	39.3	7.32	422.4	8.6	273.2	164.4	427	472.2	--
37°23'36"	2	2.5-4.5	6.57	-41	13.10	33.6	11.68	417.1	9.1	123.9	395.7	886	703.2	--
76°4'42"	3	4.5-7.5	7.42	-129	10.28	20.9	20.83	410.6	4.3	61.9	600.9	1734	892.9	27
	4	7.5-9.0	7.35	-146	9.78	14.0	29.24	411.0	4.8	--	535.5	2594	917.5	--
Cr: CBASS II	5	9.0-11.0	7.40	-156	9.95	8.4	32.02	410.1	4.5	--	602.9	3357	843.3	--
	6	15.0-17.5	7.40	-153	12.43	1.8	41.45	415.6	3.0	20.9	881.4	4851	785.6	47
Date: 27/IX/73	7	25.0-27.5	7.32	-140	12.43	1.5	41.51	419.3	3.0	61.9	828.8	4767	917.5	--
	8	40.0-44.5	7.53	-173	11.19	0.8	38.95	428.1	6.3	6.0	484.5	4082	748.5	--
	9	60.0-65.5	7.68	-160	11.13	13.0	29.24	424.3	5.0	2.7	365.1	2926	725.8	37
	10	81.0-86.0	7.87	-130	12.02	24.1	18.39	415.8	3.6	3.3	451.9	2173	682.6	--
Station: 848F	0	0.0-0.0	--	--	--	26.0	0.90	254.1	nd	2.2	nd	127	21.3	
	1	0.0-2.0	7.27	39	nd	22.0	3.80	242.5	84.1	75.2	103.4	369	302.8	
38°48'0"	2	2.0-5.0	7.33	51	nd	19.0	6.80	254.5	16.7	79.0	201.1	707	446.8	
76°26'0"	3	5.0-7.0	7.41	45	nd	17.0	7.80	253.4	18.5	89.6	187.3	739	449.3	
	4	7.0-9.0	7.38	42	nd	17.0	8.30	255.8	14.3	83.5	157.6	752	449.3	
Cr: CBASS III	5	9.0-10.5	7.43	37	nd	16.0	8.50	254.7	9.3	79.9	158.6	707	489.9	
	6	15.0-18.5	7.61	4	nd	16.0	10.30	255.8	4.5	55.0	169.8	752	545.8	
Date: 20/XII/73	7	25.0-27.5	7.83	-18	12.12	12.0	12.10	260.9	2.7	33.8	223.9	847	618.8	
	8	40.0-44.5	7.75	-100	10.69	10.0	16.40	272.4	2.2	23.4	240.8	1108	672.6	
	9	60.0-65.0	7.80	-128	10.28	7.0	18.80	276.9	1.1	16.9	221.8	1217	711.0	
	10	88.0-92.0	7.70	-156	10.46	7.0	20.10	281.5	1.6	17.5	150.7	1280	743.5	

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 848I	0	0.0-0.0	--	--	--	16.0	0.50	156.1	0.4	0.1	0.5	67	30.6
	1	0.0-2.0	7.03	154	nd	18.0	1.00	166.5	1.3	99.0	3.6	73	131.5
38°48'0"	2	2.0-4.0	7.21	59	nd	19.0	1.00	175.3	94.6	69.6	19.7	104	179.5
76°29'0"	3	4.0-6.0	7.37	43	nd	21.0	1.50	194.7	59.9	89.0	36.7	55	262.6
	4	6.0-8.0	7.46	29	nd	21.0	3.00	199.6	28.1	144.5	67.8	159	308.5
Cr: CBASS III	5	8.0-10.0	7.56	5	nd	19.0	3.40	200.6	14.5	154.3	67.2	287	356.6
	6	15.0-18.0	7.59	75	nd	14.0	5.80	208.8	7.3	61.3	92.6	342	389.4
Date: 20/XII/73	7	24.0-26.5	7.78	67	nd	14.0	7.00	188.2	2.0	51.0	107.1	366	450.6
	8	39.0-43.0	7.79	-53	11.07	15.0	8.10	183.5	6.1	53.5	125.2	421	641.3
	9	60.0-65.0	7.88	-106	11.38	12.0	10.20	218.2	8.8	40.4	131.4	732	726.3
	10	85.0-89.0	7.96	-127	11.20	10.0	10.70	218.9	7.5	22.8	--	616	733.2
Station: 848D	0	0.0-0.0	--	--	--	24.0	1.20	233.7	1.1	0.3	0.5	46	23.5
	1	0.0-2.0	7.33	82	nd	18.0	6.20	238.6	89.4	5.4	91.8	678	309.7
38°40'0"	2	2.0-5.0	7.64	-35	13.16	12.0	11.80	246.3	12.9	9.6	354.6	1046	436.1
76°24'0"	3	5.0-7.0	7.57	-31	12.96	5.0	18.40	250.9	5.9	6.8	414.6	1480	562.9
	4	7.0-9.0	7.62	-40	12.52	4.0	18.80	255.4	3.9	6.8	371.8	1645	601.7
Cr: CBASS III	5	9.0-11.0	7.64	-65	12.09	3.0	19.50	251.8	2.2	6.1	388.0	1625	597.4
	6	14.0-16.5	7.76	-108	10.86	4.0	20.30	254.7	1.8	0.9	324.4	1520	509.5
Date: 20/XII/73	7	24.0-27.0	8.07	-110	10.65	4.0	21.50	261.8	2.0	1.2	369.8	1474	485.6
	8	38.0-43.0	7.93	-139	10.00	1.0	24.30	271.0	2.0	0.4	413.0	1737	537.6
	9	58.0-63.0	7.82	-82	12.29	1.0	25.90	274.2	3.0	0.8	439.1	2007	611.8
	10	97.5-102.5	7.51	-148	10.52	1.0	27.20	278.6	5.7	0.4	360.9	2362	758.5
Station: 904P	0	0.0-0.0	--	--	--	18.0	1.30	164.7	nd	3.9	nd	60	388.0
	1	0.0-3.0	7.05	131	nd	19.0	2.60	186.5	17.7	12.0	17.3	115	233.8
39°4'0"	2	3.0-5.5	7.35	42	nd	16.0	4.70	195.8	64.3	11.6	93.8	289	330.6
76°17'0"	3	5.5-7.5	7.41	21	nd	14.0	--	195.7	65.1	5.8	90.0	368	379.1
	4	7.5-9.0	7.48	12	nd	13.0	7.10	192.7	36.4	4.8	98.7	404	447.8
Cr: CBASS III	5	9.0-11.0	7.57	-2	nd	12.0	8.30	192.3	17.7	4.0	121.4	464	432.5
	6	16.0-19.0	7.72	67	nd	8.0	12.10	192.9	5.9	2.4	202.8	675	442.1
Date: 19/XII/73	7	25.0-28.0	7.85	34	nd	4.0	17.70	203.5	6.1	1.9	268.4	928	471.4
	8	40.5-45.5	7.88	2	12.18	0.4	21.50	220.3	8.4	1.8	323.7	1277	471.4
	9	60.0-64.5	7.75	30	13.04	0.3	23.60	228.0	8.2	2.1	297.1	1500	719.3
	10	89.5-95.0	7.68	16	12.44	0.4	25.20	234.9	3.2	0.8	241.7	1789	899.2

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 904D	0	0.0-0.0	--	--	--	20.0	0.70	187.1	0.7	0.2	0.5	33	4.1
	1	0.0-2.0	6.72	192	nd	20.0	0.00	179.1	18.3	3.1	20.5	82	174.9
39°4'0"	2	2.0-4.0	7.09	129	nd	21.0	1.30	186.3	33.2	5.3	3.8	121	262.6
76°24'0"	3	4.0-6.0	7.31	84	nd	22.5	1.70	199.5	39.6	9.6	17.3	143	442.1
	4	6.0-8.0	--	--	--	21.0	2.40	200.7	29.6	14.2	42.2	269	422.8
Cr: CBASS III	5	8.0-10.0	--	--	--	18.0	3.60	200.2	42.3	14.0	75.7	341	490.9
	6	15.0-19.0	7.75	137	nd	14.0	9.60	184.0	8.6	7.4	224.9	643	612.4
Date: 17/XII/73	7	20.5-23.0	7.90	134	nd	3.0	11.70	183.0	7.3	5.4	252.4	863	675.4
	8	30.5-35.5	6.90	134	--	2.0	14.80	194.0	26.2	4.2	289.2	1110	714.4
	9	41.0-46.0	7.33	233	--	0.5	17.70	193.0	23.1	3.7	294.6	1192	796.9
	10	50.0-55.0	--	--	--	0.3	17.00	191.7	30.3	4.7	264.3	1308	860.5
Station: 904N	0	0.0-0.0	--	--	--	15.0	1.40	139.1	0.4	0.1	nd	74	34.6
	1	0.0-2.5	7.22	185	nd	18.0	5.80	206.9	6.1	17.4	21.9	531	197.7
39°3'52"	2	2.5-5.0	7.58	40	nd	11.0	10.80	213.7	100.4	23.3	143.3	966	442.5
76°19'20"	3	5.0-7.5	7.48	6	nd	4.0	15.80	215.3	220.4	17.6	180.7	1406	363.1
	4	7.5-10.0	7.51	16	nd	0.8	21.40	214.1	84.6	18.7	279.1	1771	474.9
Cr:CBASS III	5	10.0-12.5	7.45	-4	nd	0.7	21.40	213.5	254.5	23.9	291.4	1989	565.1
	6	15.5-18.0	7.45	47	nd	0.8	25.00	213.1	152.7	17.2	386.7	2371	526.5
Date: 18/XII/73	7	25.5-29.0	7.49	13	nd	0.7	27.30	220.3	115.1	14.1	390.7	2257	451.4
	8	40.5-45.5	7.43	7	nd	0.8	28.60	233.2	65.1	13.0	386.7	2423	442.5
	9	60.0-65.0	7.42	18	nd	0.3	27.50	--	315.4	9.3	223.5	2463	487.7
	10	75.5-80.0	7.33	1	nd	0.3	29.70	247.8	369.2	12.2	205.9	2486	481.2
Station: 914C	0	0.0-0.0	--	--	--	4.0	1.20	31.8	nd	0.3	nd	43	52.2
	1	0.0-2.0	7.24	100	nd	7.6	2.20	67.6	13.3	10.9	16.7	209	210.2
39°14'0"	2	2.0-4.0	7.35	27	nd	7.7	3.50	77.4	64.9	13.9	78.1	380	315.3
76°23'0"	3	4.0-6.0	7.43	7	nd	5.9	4.20	80.4	67.0	11.5	53.6	472	328.1
	4	6.0-8.0	7.52	-5	nd	4.2	5.10	78.9	61.6	10.5	77.1	491	318.5
Cr: CBASS III	5	8.0-10.0	7.56	-9	nd	1.3	5.70	74.8	40.3	10.5	76.6	577	321.7
	6	15.0-17.5	7.51	46	nd	2.5	7.10	66.8	14.5	8.0	65.6	515	315.3
Date: 19/XII/73	7	25.0-27.5	7.73	18	12.53	0.4	8.60	69.2	75.4	6.4	81.8	564	326.0
	8	40.0-44.0	7.98	14	12.35	0.3	10.80	83.4	59.9	4.9	130.2	687	426.8
	9	60.0-65.0	7.87	34	12.93	0.3	11.60	96.2	2.5	4.6	142.2	706	820.5
	10	85.0-90.0	7.77	14	12.08	0.0	12.60	101.2	3.0	3.8	143.8	798	757.1

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 914Q	0	0.0-0.0	--	--	--	4.0	0.50	29.1	0.5	0.2	nd	43	59.1
	1	0.0-2.0	6.93	119	nd	7.6	1.60	59.6	18.3	5.4	4.7	86	122.5
39°14'0"	2	2.0-4.5	7.05	39	nd	7.2	2.90	76.6	170.3	14.6	42.1	288	238.6
76°16'0"	3	4.5-6.5	7.35	1	nd	5.0	4.50	81.0	190.0	19.0	106.8	552	339.1
	4	6.5-8.5	7.54	-11	nd	4.1	5.80	78.9	130.8	18.6	110.5	681	348.1
Cr.: CBASS III	5	8.5-10.5	7.66	-21	nd	1.3	8.50	75.8	92.3	15.9	86.8	754	291.0
	6	15.0-18.0	7.49	34	nd	0.5	9.70	64.4	70.8	14.0	75.8	859	262.6
Date: 19/XII/73	7	25.0-28.0	7.98	13	nd	0.7	11.60	62.6	9.5	4.9	124.7	883	256.1
	8	40.0-44.5	7.88	5	12.56	0.3	14.10	78.2	7.2	4.1	127.9	1282	247.8
	9	60.0-65.5	7.47	23	nd	0.2	17.90	112.5	331.5	5.3	81.6	1987	269.4
	10	87.5-93.0	7.26	14	nd	0.0	20.20	133.9	560.9	2.8	70.5	3029	328.1
Station: 914S	0	0.0-0.0	--	--	--	18.0	1.20	168.0	1.3	0.3	0.5	nd	48.1
	1	0.0-2.0	6.95	124	nd	17.0	3.20	171.4	81.9	18.6	2.2	143	208.0
39°14'0"	2	2.0-4.5	7.02	22	nd	11.0	7.30	167.3	603.9	36.0	70.4	958	361.3
76°16'0"	3	4.5-6.5	7.24	-6	nd	5.1	11.30	160.5	643.4	27.0	78.5	1387	371.9
	4	6.5-9.0	7.22	-28	nd	1.5	13.30	152.1	503.6	18.9	63.4	2009	345.9
Cr: CBASS III	5	9.0-11.0	7.17	-11	nd	0.3	14.70	144.8	609.3	13.8	32.8	2245	312.8
	6	15.0-17.5	7.48	-62	nd	0.6	16.50	136.3	639.8	41.4	85.5	3091	429.0
Date: 19/XII/73	7	25.0-27.5	7.14	21	nd	0.9	16.10	146.4	209.7	6.9	21.0	3713	236.3
	8	40.0-45.0	7.03	32	nd	0.5	14.20	171.2	494.6	0.4	19.9	4043	258.3
	9	58.5-63.5	6.92	37	nd	0.5	15.10	192.3	618.3	0.4	27.4	6060	1.0
	10	84.0-90.0	7.03	29	nd	0.3	15.00	199.1	546.6	0.4	19.9	7588	295.4
Station: 922W	0	0.0-0.0	--	--	--	1.5	0.40	10.3	0.5	0.1	nd	42	77.2
	1	0.0-0.0	6.90	57	nd	2.0	2.00	11.6	0.5	0.2	1.6	139	126.5
39°22'0"	2	2.0-4.0	7.22	62	nd	2.1	3.20	17.8	47.1	6.0	9.9	253	199.2
76°10'0"	3	4.0-6.0	7.37	27	nd	1.2	5.30	26.9	141.6	12.4	33.0	494	296.4
	4	6.0-8.0	7.38	17	nd	0.5	7.20	33.7	168.5	13.8	52.2	717	379.1
Cr: CBASS III	5	8.0-9.5	7.32	24	nd	0.5	7.80	33.5	154.3	13.2	54.9	904	471.4
	6	15.0-17.5	7.32	-3	nd	0.3	10.40	35.3	245.3	15.4	97.3	1229	520.2
Date: 18/XII/73	7	25.0-27.5	7.39	48	nd	0.4	14.00	42.3	3.4	10.9	96.2	1248	656.3
	8	35.0-39.5	7.08	8	--	0.3	15.00	49.4	1.6	9.2	94.5	1254	796.9
	9	50.0-54.5	7.42	102	nd	0.4	16.00	57.5	5.9	12.0	146.2	1416	957.6
	10	65.0-70.5	7.03	85	nd	0.5	16.80	69.7	44.1	14.5	187.4	1669	991.4

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 922NN	0	0.0-0.0	--	--	--	1.5	0.40	0.6	nd	2.2	0.5	nd	59.4
	1	0.0-2.0	7.00	135	nd	3.2	3.40	1.8	3.0	57.5	3.6	126	96.5
39°22'0"	2	2.0-4.0	7.36	133	nd	3.4	6.10	27.2	93.9	238.0	1.0	397	249.4
76°6'0"	3	4.0-6.0	7.49	11	nd	2.5	7.30	31.4	196.4	253.5	7.7	541	195.5
	4	6.0-8.0	7.55	-24	nd	1.4	8.60	35.0	207.3	244.2	23.2	716	212.7
Cr: CBASS III	5	8.0-10.0	7.54	-25	nd	0.5	7.80	32.4	2.9	249.0	26.3	710	229.8
	6	---	--	330	nd	0.0	--	--	3.6	91.5	40.7	427	--
Date: 18/XII/73	7	---	7.66	37	nd	0.2	8.80	37.5	5.6	111.2	58.2	722	266.4
	8	---	7.25	78	nd	0.2	12.50	51.6	22.9	123.3	65.5	1137	386.9
	9	---	7.26	98	nd	0.3	13.40	60.2	4.8	144.5	71.6	1492	483.4
	10	---	7.09	113	nd	0.4	16.40	68.3	3.2	156.0	95.4	1871	569.3
Station: 834I	0	0.0-0.0	--	--	nd	--	1.23	179.8	0.4	1.5	nd	11	35.8
	1	0.0-2.0	6.86	1	nd	--	1.22	189.3	73.8	82.0	11.7	68	163.1
38°34'0"	2	2.0-4.0	6.99	3	nd	--	1.18	198.7	127.2	63.8	33.0	68	234.6
76°29'0"	3	4.0-6.0	7.06	2	nd	--	1.69	196.6	50.7	41.9	47.0	107	300.2
	4	6.0-8.0	7.29	-21	10.85	--	3.13	202.1	10.4	56.5	82.0	215	387.7
Cr: CBASS IV	5	8.0-10.0	7.52	-28	10.10	--	4.65	206.6	3.9	58.3	119.0	306	435.3
	6	13.0-17.0	7.68	-88	9.73	--	7.78	215.0	2.3	54.6	144.0	465	496.2
Date: 28/III/74	7	23.5-27.5	7.67	-121	9.59	--	10.34	216.3	3.0	30.8	144.0	357	542.8
	8	37.0-43.0	7.59	-136	9.60	--	12.14	218.4	1.9	15.8	128.0	414	608.4
	9	56.0-64.0	7.59	-140	9.84	--	14.83	222.4	2.6	10.7	101.0	414	636.1
	10	96.0-104.0	7.59	-141	9.91	--	15.89	214.8	3.6	8.4	84.0	425	582.6
Station: 834F	0	0.0-0.0	--	--	nd	--	1.50	287.9	10.9	3.8	1.5	487	nd
	1	0.0-2.0	7.33	17	13.09	--	8.48	285.3	48.3	0.0	86.0	1351	553.3
38°34'0"	2	2.0-4.0	7.60	-72	10.88	--	15.91	272.4	18.3	149.4	517.0	1738	966.1
76°26'0"	3	4.0-6.0	7.64	-109	9.94	--	20.18	281.3	5.0	125.7	544.0	2194	685.7
	4	6.0-8.0	7.53	-117	9.98	--	23.36	288.6	5.9	134.8	529.0	2427	623.7
Cr: CBASS IV	5	8.0-10.0	7.54	-125	9.81	--	26.66	288.5	6.6	111.1	575.0	2787	728.8
	6	14.0-17.0	7.59	-115	10.17	--	29.98	291.0	5.2	74.7	594.0	3269	782.2
Date: 26/III/74	7	25.0-29.0	7.54	-70	11.43	--	32.07	298.7	2.6	58.3	572.0	3354	759.9
	8	39.0-45.0	7.62	-26	10.96	--	33.46	307.2	2.1	5.8	497.0	3667	816.4
	9	62.5-70.5	7.62	-102	10.17	--	33.53	316.5	3.4	1.3	420.0	3280	774.8
	10	111.0-119.0	7.58	-139	9.50	--	29.89	320.5	5.0	9.5	60.0	2056	675.3
	11	170.0-178.0	7.47	-61	11.12	--	8.27	315.6	0.2	8.7	9.5	731	590.6

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station:812R	0	0.0-0.0	--	--	--	--	1.14	275.0	nd	0.7	1.0	169	10.6
	1	0.0-2.0	7.04	42	--	--	3.66	278.2	nd	74.7	104.0	711	501.7
26°3'74"	2	2.0-4.0	7.40	-120	10.86	--	5.61	288.0	315.5	7.8	92.0	880	623.7
76°15'0"	3	4.0-6.0	7.64	-141	10.33	--	9.59	298.3	3.6	1.5	129.0	1088	648.5
	4	6.0-8.0	7.66	-160	9.87	--	11.98	303.6	1.3	0.9	138.0	1214	731.8
Cr: CBASS IV	5	8.0-10.0	7.67	-166	9.81	--	12.64	306.1	1.3	1.3	146.0	1345	698.0
	6	14.5-18.5	7.64	-167	9.90	--	11.82	313.7	2.6	5.5	107.0	1214	658.0
Date: 26/III/74	7	25.0-29.0	7.57	-172	9.87	--	13.20	318.7	4.4	3.8	87.0	1361	698.0
	8	39.5-45.5	7.54	-172	9.93	--	11.87	313.8	17.3	4.2	75.0	1121	698.0
	9	58.5-66.5	7.54	-175	9.80	--	11.04	324.8	4.5	7.7	68.0	1028	685.7
	10	82.5-90.5	7.54	-172	9.96	--	9.52	324.7	3.0	10.2	55.0	929	691.9
Station: 813Z	0	0.0-0.0	--	--	--	--	0.76	187.8	4.8	1.6	1.5	18	16.0
	1	0.0-2.0	7.19	-32	13.44	--	3.75	204.7	30.5	772.3	2.0	342	276.4
38°13'0"	2	2.0-4.0	7.04	-4	--	--	6.33	208.3	651.8	245.9	133.0	690	505.0
76°7'0"	3	4.0-6.0	7.23	-94	11.98	--	10.40	214.3	28.8	154.8	159.0	885	497.0
	4	6.0-8.0	7.48	-134	10.73	--	14.00	216.4	3.1	67.4	200.0	1203	510.8
Cr: CBASS IV	5	8.0-10.0	7.58	-138	10.64	--	15.80	222.2	5.9	40.8	192.0	1409	507.0
	6	13.5-17.5	7.61	-142	10.06	--	21.16	216.9	3.4	7.1	190.0	1693	487.1
Date: 28/III/74	7	26.0-30.0	7.66	-157	9.84	--	19.69	215.2	6.0	3.3	90.0	1757	427.5
	8	37.0-43.0	7.51	-161	9.54	--	16.57	235.6	4.5	3.1	80.0	896	550.6
	9	56.0-64.0	7.48	-165	9.38	--	16.45	251.4	5.5	1.3	104.0	1003	596.4
	10	86.0-94.0	7.61	-167	9.32	--	18.22	248.3	6.3	4.0	83.0	1026	564.6
	11	193.0-20.10	7.31	-147	9.88	--	24.67	254.5	5.0	1.6	153.0	2695	673.9
	12	252.0-260.0	7.30	-129	10.81	--	24.40	248.0	2.2	5.3	168.0	3303	719.7
Station: 744U	0	0.0-0.0	--	--	--	--	0.63	256.1	0.4	0.7	0.5	--	4.0
	1	0.0-2.0	6.65	16	--	--	2.32	274.8	105.4	14.4	14.0	--	290.2
38°13'0"	2	2.0-4.0	7.28	-71	11.81	--	2.60	280.9	7.3	13.5	34.0	--	389.7
75°58'0"	3	4.0-6.0	7.43	-92	11.56	--	2.52	291.8	2.5	10.9	35.0	--	407.5
	4	6.0-8.0	7.49	-93	11.13	--	2.89	290.7	4.9	--	36.0	--	411.5
Cr: CBASS IV	5	8.0-10.0	7.50	-98	11.07	--	2.87	295.4	2.6	--	40.0	--	407.5
	6	15.0-19.0	7.53	-99	11.15	--	2.91	312.4	2.1	8.7	29.0	--	375.7
Date: 27/III/74	7	26.0-30.0	7.49	-106	10.93	--	3.23	311.5	2.2	8.7	32.0	--	407.5
	8	29.5-35.5	7.50	-106	10.76	--	3.69	316.8	1.2	6.0	20.0	--	399.5
	9	34.5-42.5	7.48	-119	10.67	--	4.82	348.4	1.5	5.3	24.0	--	467.3
	10	---	7.48	-126	10.68	--	5.87	319.8	2.2	5.3	21.0	--	427.5

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 834C	0	0.0-0.0	--	--	--	--	2.10	235.3	nd	3.1	1.1	nd	16.0
	1	0.0-3.0	6.99	12	--	--	2.92	252.2	50.8	163.9	8.2	121	220.6
38°34'0"	2	2.0-4.0	7.52	-105	10.78	--	5.92	254.5	9.5	120.2	124.0	312	457.3
76°23'0"	3	4.0-6.0	7.55	-132	10.03	--	9.20	259.7	2.3	120.2	208.0	598	544.8
	4	6.0-8.0	7.52	-146	10.03	--	11.82	261.9	5.7	125.7	293.0	900	628.2
Cr: CBASS IV	5	8.0-10.0	7.57	-150	9.76	--	14.70	270.3	5.1	120.2	317.0	1202	664.9
	6	13.0-17.0	7.51	-136	9.63	--	17.54	281.5	5.4	69.2	310.0	1469	516.8
Date: 28/III/74	7	---	--	--	--	--	--	--	--	--	--	--	--
	8	38.5-44.5	7.54	-146	9.86	--	10.66	295.7	2.3	6.4	30.0	611	447.3
	9	56.5-64.5	7.49	-134	10.18	--	7.86	297.1	1.6	5.1	22.0	337	441.3
	10	74.0-78.0	7.49	-126	10.62	--	6.31	293.5	1.6	5.5	17.0	261	463.3
Station: 812	0	0.0-0.0	--	--	--	--	0.66	181.6	0.2	0.4	0.5	66	24.0
38°12'0"	1	0.0-1.0	6.49	-13	--	--	0.61	187.5	149.1	133.0	29.0	77	385.9
76°20'0"	2	1.0-3.0	7.02	-1	--	--	1.98	205.8	31.0	89.3	57.0	169	495.2
	3	3.0-5.0	7.11	-45	13.07	--	3.12	220.2	9.7	65.6	73.0	202	551.3
Cr: CBASS IV	4	5.0-7.0	7.45	-131	11.34	--	4.02	219.2	1.4	43.0	71.0	312	588.6
Date: 26/III/74	5	25.0-33.0	7.30	-98	10.67	--	5.27	248.1	1.5	8.2	43.0	547	551.3
Station: 8120	0	0.0-0.0	--	--	--	--	1.23	195.2	0.4	0.5	0.5	84	31.9
	1	0.0-2.0	6.93	108	--	--	2.24	208.3	94.8	30.7	37.0	203	434.3
38°12'0"	2	2.0-4.0	7.17	9	12.92	--	3.42	210.1	39.5	33.2	68.0	253	551.3
76°18'0"	3	4.0-6.0	7.31	-41	11.41	--	4.72	228.3	3.7	34.2	88.0	360	592.6
	4	6.0-8.0	7.36	-58	11.53	--	4.89	236.2	6.3	38.4	106.0	495	592.6
Cr: CBASS IV	5	8.0-10.0	7.34	-68	11.39	--	5.84	240.1	3.3	39.7	99.0	473	619.5
	6	14.0-18.0	7.41	-79	10.97	--	6.47	245.7	4.4	29.0	88.0	462	619.5
Date: 27/III/74	7	25.0-29.0	7.59	-67	10.60	--	6.01	241.8	2.2	44.3	48.0	383	580.2
	8	34.5-40.5	7.61	-79	11.15	--	5.87	260.3	--	12.6	39.0	343	594.7
	9	46.0-54.0	7.50	-80	10.88	--	5.72	274.1	1.9	9.5	43.0	355	567.8
	10	59.0-67.0	7.49	-77	11.17	--	5.54	278.2	1.1	7.5	32.0	332	534.8

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 744B	0	0.0-0.0	--	--	--	--	1.68	252.3	5.9	1.3	0.5	nd	8.0
	1	0.0-2.0	6.60	102	--	--	1.63	313.6	111.1	20.0	20.0	102	483.1
37°44'0"	2	2.0-4.0	6.98	65	--	--	3.11	285.3	26.2	35.0	95.0	181	530.6
76°12'0"	3	4.0-6.0	7.42	61	--	--	3.42	287.5	5.5	6.7	33.0	153	396.2
	4	6.0-8.0	7.40	6	11.91	--	3.00	289.6	2.2	3.3	18.0	130	452.1
Cr: CBASS IV	5	8.0-10.0	7.38	-5	11.86	--	2.63	294.5	1.5	3.5	18.0	119	425.2
	6	14.5-17.5	7.43	10	12.41	--	3.11	315.2	5.1	11.5	28.0	164	505.9
Date: 27/III/74	7	23.0-27.0	7.45	-50	10.35	--	4.08	321.0	2.0	4.2	38.0	254	551.3
	8	42.0-48.0	7.49	-76	10.44	--	4.33	324.9	2.0	3.5	31.0	311	590.6
	9	66.0-74.0	7.50	-86	10.26	--	4.43	329.6	2.4	3.3	31.0	401	594.7
	10	105.5-113.5	7.56	-90	10.37	--	4.30	334.6	2.5	2.6	26.0	203	607.0
	11	---	7.37	-156	9.53	--	--	370.5	6.5	1.3	128.0	1808	720.0
	12	---	7.43	-137	10.09	--	--	366.7	4.3	1.5	132.0	2560	734.7
Station: 744NN	0	0.0-0.0	--	--	--	--	1.01	257.2	0.4	3.6	1.0	--	4.0
	1	0.5-2.5	7.20	-14	--	--	8.23	266.6	620.3	404.4	54.0	--	431.5
37°44'0"	2	3.0-5.0	7.35	-14	nd	--	10.14	279.9	249.7	211.3	181.0	--	644.1
75°56'0"	3	6.5-8.5	7.36	-78	11.63	--	10.21	280.3	39.7	89.3	208.0	--	669.9
	4	8.5-10.0	7.38	-134	10.64	--	13.72	285.6	3.2	72.9	266.0	--	743.5
Cr: CBASS IV	5	10.0-12.0	7.38	-145	10.35	--	16.44	286.7	4.3	76.5	311.0	--	739.5
	6	16.0-19.0	7.45	-155	10.00	--	26.02	305.7	6.4	--	513.0	--	669.9
27/III/74	7	29.5-31.5	7.51	-162	9.55	--	33.96	311.0	4.1	0.9	303.0	--	750.7
	8	41.0-49.0	7.50	-166	9.41	--	36.39	323.9	5.2	0.9	235.0	--	658.1
	9	71.5-81.5	7.46	-167	9.42	--	37.24	329.3	6.4	0.7	247.0	--	685.9
	10	98.5-108.5	7.42	-168	9.35	--	37.47	326.6	5.8	0.9	281.0	--	705.7
	11	125.0-135.0	7.51	-172	9.43	--	26.83	309.4	9.8	2.9	71.0	--	594.4
Station: 854C	0	0.0-0.0	--	--	--	--	1.47	208.2	0.8	--	3.6	nd	27.8
	1	0.0-2.0	7.32	77	nd	--	3.68	201.6	118.0	240.4	66.0	585	240.0
38°54'1"	2	2.0-4.0	6.75	72	nd	--	3.57	197.9	605.0	499.1	89.0	310	302.0
76°23'0"	3	4.0-6.0	7.25	53	nd	--	7.07	206.1	98.0	264.1	183.0	590	334.0
	4	6.0-8.0	7.43	47	nd	--	10.32	207.8	50.0	149.4	194.0	830	382.0
Cruise: GOOP I	5	8.0-10.0	7.50	47	nd	--	11.18	212.4	33.0	125.7	193.0	835	380.0
	6	15.5-18.0	7.76	-13	12.01	--	18.25	213.3	2.1	102.0	297.0	1200	393.0
Date: 19/IV/74	7	30.5-33.5	7.73	11	12.97	--	23.67	227.1	9.9	160.3	438.0	1700	387.0
	8	55.0-59.5	7.53	17	nd	--	27.08	242.6	202.0	244.1	318.0	2250	442.0
	9	80.0-84.5	7.52	6	nd	--	29.59	245.9	191.0	229.5	278.0	2215	410.0
	10	109.0-114.0	7.65	12	nd	--	29.71	244.4	40.0	151.2	371.0	2075	604.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 912K	0	0.0-0.0	--	--	--	--	0.41	61.2	13.9	4.4	nd	220	61.8
	1	0.0-2.0	7.08	12	nd	--	0.81	74.8	112.0	8.2	18.0	1295	181.0
39°12'30"	2	2.0-4.0	7.19	31	nd	--	nd	65.9	114.0	5.6	21.0	565	140.5
76°30'30"	3	4.0-6.0	7.48	-6	nd	--	nd	76.7	139.0	6.7	31.0	695	196.0
	4	6.0-8.0	7.35	12	nd	--	nd	84.2	88.0	8.4	40.0	695	274.0
Cruise: GOOP I	5	8.0-10.0	7.31	12	nd	--	nd	92.1	9.0	10.0	40.0	1220	258.0
	6	14.5-17.5	7.18	-3	nd	--	18.33	120.9	219.0	16.9	59.0	4345	319.0
Date: 17/IV/74	7	24.0-27.0	7.18	-8	nd	--	22.69	125.0	212.0	10.2	68.0	5620	353.0
	8	46.5-51.0	7.32	-20	nd	--	23.60	146.3	161.0	3.1	71.0	6575	298.0
	9	78.0-83.0	7.45	17	nd	--	22.15	150.3	2.5	29.3	128.0	3605	565.0
	10	103.5-108.5	7.34	-1	nd	--	20.94	143.8	nd	13.3	229.0	2280	708.0
Station: 915L	0	0.0-0.0	--	--	--	--	0.77	73.3	11.2	7.7	1.0	250	63.9
	1	0.0-2.0	7.10	25	nd	--	3.61	nd	83.6	18.2	30.0	820	--
39°15'21"	2	2.0-4.0	7.25	42	nd	--	1.42	75.9	99.4	8.9	23.0	310	13.6
76°32'15"	3	4.0-6.0	7.30	37	nd	--	2.29	92.7	61.9	10.4	59.0	385	204.0
	4	6.0-8.0	7.23	35	nd	--	9.29	124.7	56.5	22.0	136.0	1380	358.0
Cruise: GOOP I	5	8.0-10.0	7.28	31	nd	--	13.69	136.0	61.2	24.8	161.0	2095	410.0
	6	13.0-16.0	7.22	20	nd	--	20.28	140.9	125.3	--	160.0	3275	368.0
Date: 17/IV/74	7	23.0-26.0	7.14	18	nd	--	20.24	133.2	110.9	--	177.0	3405	385.0
	8	41.5-46.0	7.15	11	nd	--	27.27	125.3	218.5	--	124.0	5305	427.0
	9	63.0-68.0	7.05	20	nd	--	33.41	143.3	110.9	--	230.0	5260	478.0
	10	100.0-106.0	7.01	27	nd	--	27.68	173.9	24.0	--	144.0	6635	457.0
Station: 904N	0	0.0-0.0	--	--	--	--	1.58	201.9	47.0	--	nd	97	60.7
	1	0.0-2.0	7.21	40	nd	--	10.95	297.1	34.0	265.9	27.0	3185	317.0
39°3'52"	2	2.0-4.0	7.35	64	nd	--	3.94	198.9	1.3	783.2	2.5	715	187.0
76°19'20"	3	4.0-6.0	7.76	99	nd	--	6.08	211.7	17.1	947.2	5.5	1220	213.0
	4	6.0-8.0	7.63	57	nd	--	11.60	214.1	153.0	451.7	23.0	1905	365.0
Cruise: GOOP I	5	8.0-10.0	7.71	-10	nd	--	16.25	218.9	267.0	315.1	86.0	2245	404.0
Date: 17/IV/74	6	24.0-32.0	7.32	-9	nd	--	32.23	220.0	1193.0	nd	107.0	6150	657.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 904N #1	0	0.0-0.0	--	--	--	--	1.57	204.3	32.0	--	0.5	178	27.8
	1	0.0-2.0	7.25	162	nd	--	5.75	206.5	2.3	597.4	2.0	513	104.0
39°3'52"	2	2.0-4.0	7.58	26	nd	--	13.06	212.3	139.5	431.7	176.0	1080	298.0
76°19'20"	3	4.0-6.0	7.58	26	nd	--	18.09	224.1	134.0	397.1	237.0	1600	310.0
	4	6.0-8.0	7.49	22	nd	--	22.04	222.4	240.0	437.2	230.0	2195	340.0
Cruise: GOOP I	5	8.0-10.0	7.40	13	nd	--	24.38	225.0	306.0	597.2	208.0	2675	374.0
	6	15.0-17.5	7.40	-1	nd	--	27.19	230.5	639.0	670.3	197.0	3810	414.0
Date: 18/IV/74	7	28.5-31.0	7.32	-8	nd	--	31.81	238.0	560.0	464.5	189.0	3885	478.0
	8	42.5-47.0	7.36	-10	nd	--	31.13	244.7	352.0	388.0	321.0	2935	486.0
	9	72.5-78.0	7.30	-9	nd	--	28.94	249.1	637.0	296.9	173.0	2480	391.0
	10	98.5-103.5	7.33	14	nd	--	--	--	898.0	--	201.0	2395	618.0
Station: 904N #2	0	0.0-0.0	--	--	--	--	1.08	198.2	6.6	--	1.1	260	43.4
	1	0.0-2.0	7.17	119	nd	--	6.51	205.4	10.9	528.2	3.2	930	124.0
39°3'52"	2	2.0-4.0	7.48	60	nd	--	11.92	209.2	107.0	418.9	133.0	1170	282.0
76°19'20"	3	4.0-6.0	7.51	52	nd	--	17.20	217.9	77.5	404.4	178.0	1625	354.0
	4	6.0-8.0	7.41	34	nd	--	21.63	224.9	235.0	386.2	225.0	2260	365.0
Cruise: GOOP I	5	8.0-10.0	7.37	19	nd	--	24.55	226.2	419.0	473.6	180.0	2785	350.0
	6	15.0-18.0	7.25	2	nd	--	27.00	228.5	899.0	433.5	126.0	4460	528.0
Date: 18/IV/74	7	28.5-31.0	7.25	-6	nd	--	32.40	235.8	835.0	306.0	162.0	2340	530.0
	8	47.0-51.0	7.37	-3	nd	--	31.95	241.9	318.0	422.6	306.0	3230	443.0
	9	76.0-81.0	7.22	-6	nd	--	28.09	236.3	695.0	258.7	160.0	2150	419.0
	10	115.0-121.0	7.50	-6	nd	--	27.36	209.1	132.0	138.4	300.0	2075	600.0
Station: 904N #3	0	0.0-0.0	--	--	--	--	1.13	194.9	nd	--	1.5	63	32.0
	1	0.0-2.0	7.38	130	nd	--	1.48	195.7	38.0	652.1	1.5	165	176.0
39°3'52"	2	2.0-4.0	--	69	nd	--	0.77	198.2	1416.0	446.3	60.0	440	248.0
76°19'20"	3	4.0-6.0	7.05	32	nd	--	8.50	213.8	514.0	382.5	135.0	770	374.0
	4	6.0-8.0	7.35	19	nd	--	13.20	214.2	146.0	229.5	216.0	1110	427.0
Cruise: GOOP I	5	8.0-10.0	7.40	18	nd	--	16.71	217.0	67.0	191.3	274.0	1345	486.0
	6	15.0-18.0	7.40	15	nd	--	22.52	220.2	96.0	284.2	395.0	2005	508.0
Date: 18/IV/74	7	38.0-31.0	7.49	6	nd	--	25.32	225.6	146.5	211.3	385.0	2930	443.0
	8	49.5-54.0	7.39	5	nd	--	27.19	240.4	125.0	189.4	351.0	2345	454.0
	9	76.0-82.0	7.47	-3	nd	--	27.56	248.3	238.0	171.2	300.0	4960	427.0
	10	109.0-114.5	7.55	-8	nd	--	27.06	255.2	82.0	82.0	391.0	2005	483.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 904N #4	0	0.0-0.0	--	--	--	--	0.90	197.6	8.4	--	1.5	310	30.4
	1	0.0-2.0	6.81	94	nd	--	2.79	205.1	172.0	537.3	12.0	570	165.0
39°3'52"	2	2.0-4.0	6.98	37	nd	--	6.88	209.3	900.0	551.9	119.0	845	276.0
76°19'20"	3	4.0-6.0	7.26	11	nd	--	17.63	238.9	287.0	528.2	237.0	1315	421.0
	4	6.0-8.0	7.43	4	nd	--	21.19	217.7	--	349.7	250.0	1835	406.0
Cruise: GOOP I	5	8.0-10.0	7.39	10	nd	--	21.72	214.7	179.0	482.7	258.0	2065	432.0
	6	15.0-17.0	7.38	1	nd	--	26.04	221.3	389.0	488.2	222.0	2675	540.0
Date: 18/IV/74	7	25.0-28.0	7.35	-3	nd	--	26.08	214.5	243.0	360.7	319.0	2585	489.0
	8	43.0-47.5	7.34	-6	nd	--	24.85	204.8	260.0	338.8	311.0	2380	422.0
	9	73.0-77.0	7.45	-9	nd	--	20.81	178.3	310.0	131.1	210.0	2150	471.0
	10	102.0-106.5	7.69	-7	nd	--	18.96	158.3	6.1	51.0	270.0	1635	726.0
Station: 904N #5	0	0.0-0.0	--	--	--	--	1.52	201.8	2.9	--	2.6	300	26.2
	1	0.0-2.0	7.23	95	nd	--	5.10	204.4	57.0	278.7	22.0	930	204.0
39°3'52"	2	2.0-4.0	7.28	34	nd	--	4.60	207.0	344.0	373.4	84.0	1315	280.0
76°19'20"	3	4.0-6.0	7.41	24	nd	--	10.63	210.6	239.0	373.4	180.0	2615	361.0
	4	6.0-8.0	7.40	13	nd	--	16.84	217.9	219.0	355.2	222.0	2475	410.0
Cruise: GOOP I	5	8.0-10.0	7.43	11	nd	--	19.03	218.1	69.0	373.4	270.0	1255	430.0
	6	15.5-18.0	7.32	1	nd	--	24.92	224.7	382.0	455.4	230.0	2875	585.0
Date: 18/IV/74	7	30.0-32.5	7.37	1	nd	--	27.03	224.9	230.0	258.7	331.0	2450	447.0
	8	49.5-54.0	7.36	-1	nd	--	26.47	222.4	239.0	202.2	311.0	2395	450.0
	9	79.0-83.5	7.50	-10	nd	--	26.02	217.8	262.0	149.4	266.0	2100	455.0
	10	107.0-111.5	7.69	-3	nd	--	25.58	195.4	6.1	63.8	344.0	2015	747.0
Station: 854C	0	0.0-0.0	--	--	--	--	1.50	209.4	1.1	--	1.0	125	29.9
	1	0.0-2.0	7.32	63	nd	--	4.82	200.3	8.7	156.6	71.0	nd	234.0
38°54'0"	2	2.0-4.0	6.97	79	nd	--	4.92	198.2	511.0	318.8	114.0	330	272.0
76°23'0"	3	4.0-6.0	7.32	58	nd	--	7.81	203.2	200.0	282.3	179.0	650	342.0
	4	6.0-8.0	7.45	41	nd	--	12.62	207.8	99.0	182.1	215.0	870	368.0
Cruise: GOOP I	5	8.0-10.0	7.53	43	nd	--	15.11	215.1	40.0	138.4	243.0	1055	399.0
	6	15.5-18.0	7.78	28	nd	--	20.68	213.3	11.0	94.7	329.0	1315	418.0
Date: 19/IV/74	7	26.5-29.5	7.83	31	nd	--	24.87	225.4	8.3	134.8	425.0	1600	380.0
	8	46.0-50.5	7.58	34	nd	--	27.30	241.9	140.0	235.0	332.0	3915	442.0
	9	68.0-72.5	7.53	22	nd	--	28.78	244.7	225.0	244.1	239.0	2340	398.0
	10	99.0-104.5	7.63	20	nd	--	30.56	247.4	74.0	171.2	369.0	2020	545.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 853C #2	0	0.0-0.0	--	--	--	--	1.84	232.0	8.6	--	1.0	131	40.7
	1	0.0-2.0	7.40	44	nd	--	10.59	240.6	25.3	728.6	36.0	1223	244.9
38°52'59"	2	2.0-4.0	7.38	-34	nd	--	15.54	247.9	247.0	500.9	647.0	1670	473.6
76°23'0"	3	4.0-6.0	7.35	-116	11.46	--	18.82	254.5	1.5	291.4	393.0	2000	465.5
	4	6.0-8.0	7.35	-120	11.46	--	19.91	256.4	2.7	242.3	427.0	2250	441.0
Cr: CBASS V	5	8.0-10.0	7.36	-123	11.46	--	27.05	267.8	4.2	244.1	557.0	2810	479.8
	6	14.5-17.5	7.32	-62	nd	--	37.48	279.8	338.9	326.0	497.0	4530	663.6
Date: 14/V/74	7	26.5-30.0	7.35	-50	13.40	--	35.47	288.5	25.6	189.4	689.0	4170	626.8
	8	45.0-50.0	7.45	-44	12.95	--	35.47	296.9	14.8	143.9	740.0	3790	577.8
	9	65.0-69.0	7.38	-37	nd	--	34.80	294.8	53.8	127.5	728.0	3410	586.0
	10	95.0-100.0	7.37	-28	nd	--	30.53	301.1	163.1	138.4	534.0	3790	532.9
Station: 853C #3	0	0.0-0.0	--	--	--	--	0.60	189.6	9.2	--	2.6	39	40.4
	1	0.0-2.0	7.46	33	nd	--	10.46	232.1	112.8	719.5	16.0	907	252.2
38°53'0"	2	2.0-4.0	7.40	-45	nd	--	14.56	239.9	107.3	386.2	241.0	1374	460.0
76°22'59"	3	4.0-6.0	7.38	-88	12.11	--	18.18	250.0	8.8	326.0	336.0	1973	512.9
	4	6.0-8.0	7.32	-93	12.27	--	23.43	257.2	9.2	338.8	370.0	2420	517.0
Cr: CBASS V	5	8.0-10.0	7.32	-53	nd	--	27.78	265.4	303.0	369.8	337.0	3240	525.1
	6	15.0-18.0	7.20	-34	nd	--	35.37	272.3	560.5	457.2	300.0	--	690.1
Date: 14/V/74	7	27.5-30.5	7.35	-41	13.44	--	35.07	276.5	19.1	114.8	662.0	3830	588.3
	8	45.5-49.5	7.42	-37	13.27	--	34.58	288.3	20.2	94.7	712.0	3390	584.2
	9	69.5-75.5	7.29	-29	nd	--	37.22	291.0	183.0	171.2	650.0	3700	535.3
	10	102.0-108.0	7.23	-23	nd	--	38.44	297.1	325.0	167.6	387.0	4050	535.3
Station: 853C #4	0	0.0-0.0	--	--	--	--	2.13	228.9	4.8	--	0.0	217	44.4
	1	0.0-2.0	7.59	-14	nd	--	11.06	234.8	118.3	874.3	16.0	1006	250.1
38°53'0"	2	2.0-4.0	7.67	-43	nd	--	17.35	253.3	367.2	592.0	197.0	1618	437.5
76°22'59"	3	4.0-6.0	7.53	-110	11.75	--	21.59	258.1	2.0	244.1	463.0	2000	496.6
	4	6.0-10.0	7.53	-131	11.33	--	26.10	267.1	2.0	222.2	676.0	2400	504.8
Cr: CBASS V	5	10.0-13.0	7.56	-134	11.43	--	27.15	270.9	2.5	255.0	756.0	2700	551.6
	6	18.0-21.5	7.38	-79	13.27	--	32.36	281.4	51.7	316.9	838.0	3641	655.5
14/V/74	7	31.0-36.5	7.50	-71	13.05	--	35.39	284.5	18.1	102.0	766.0	3660	606.6
	8	51.5-56.0	7.51	-62	13.08	--	35.79	293.0	22.0	127.5	784.0	3570	572.0
	9	76.0-81.0	7.39	-56	nd	--	36.81	297.6	101.0	174.9	756.0	3940	553.7
	10	101.0-106.0	7.35	-49	nd	--	40.11	294.9	137.0	165.8	651.0	3850	586.2

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 853C #5	0	0.0-0.0	--	--	--	--	8.27	229.7	1.9	--	7.0	322	63.3
	1	0.0-2.0	7.30	29	nd	--	18.39	244.6	55.0	422.6	189.0	2000	517.0
38°53'0"	2	2.0-4.0	7.33	-6	nd	--	21.36	254.4	76.4	382.5	361.0	2210	523.0
76°23'1"	3	4.0-6.0	7.36	1	nd	--	19.55	256.8	107.0	360.7	355.0	1992	523.0
	4	6.0-8.0	7.30	-103	11.69	--	23.52	264.5	11.4	295.1	368.0	3020	582.0
Cr: CBASS V	5	8.0-10.0	7.23	-98	12.34	--	24.54	266.5	8.6	302.4	492.0	3560	605.0
	6	15.0-18.0	7.12	-58	nd	--	34.69	276.7	341.0	468.1	493.0	4990	776.0
Date: 14/V/74	7	28.5-31.5	7.29	-35	nd	--	39.41	282.3	24.5	235.0	739.0	4760	727.0
	8	46.5-51.5	7.25	-30	nd	--	39.94	290.4	56.1	260.5	718.0	4730	717.0
	9	71.0-77.0	7.15	-30	nd	--	40.02	295.8	187.4	293.3	696.0	5380	671.0
	10	103.0-109.0	7.15	-28	nd	--	42.00	302.1	332.0	269.6	446.0	5530	654.0
Station: 853E #1	0	0.0-0.0	--	--	--	--	0.33	158.7	1.2	--	1.6	7	42.6
	1	0.0-2.0	7.11	119	nd	--	5.16	183.8	4.1	360.7	29.0	197	218.0
38°53'2"	2	2.0-4.0	7.25	54	nd	--	3.89	193.8	105.0	245.9	86.0	250	301.0
76°25'0"	3	4.0-6.0	7.10	57	nd	--	5.35	204.5	146.0	196.7	117.0	395	361.0
	4	6.0-8.0	7.22	53	nd	--	8.53	216.0	54.1	171.2	134.0	560	415.0
Cr: CBASS V	5	8.0-10.0	7.35	54	nd	--	11.74	222.0	40.3	125.7	173.0	645	437.0
	6	15.0-17.0	7.78	24	nd	--	13.40	232.1	2.4	93.8	262.0	960	454.0
Date: 15/V/74	7	27.5-30.0	7.78	44	nd	--	18.21	240.4	5.0	76.5	342.0	1025	437.0
	8	45.0-49.0	7.73	54	nd	--	20.14	251.5	5.2	67.4	333.0	1170	444.0
	9	74.0-78.0	7.65	-99	11.17	--	21.86	258.3	5.3	43.7	226.0	1185	627.0
	10	98.0-103.5	7.55	-128	11.24	--	19.77	264.5	9.5	25.5	199.0	1040	687.0
Station: 853E #2	0	0.0-0.0	--	--	--	--	0.83	148.9	0.8	---	2.1	--	42.6
	1	0.0-2.0	7.22	40	nd	--	--	182.9	1.8	446.3	24.0	250	189.3
38°53'1"	2	2.0-4.0	7.52	17	nd	--	5.08	190.9	58.4	455.4	131.0	360	330.0
76°25'0"	3	4.0-6.0	7.49	15	nd	--	6.87	206.3	42.1	322.4	167.0	506	386.0
	4	6.0-8.0	7.40	1	nd	--	9.88	215.7	58.1	200.4	202.0	620	435.0
Cr: CBASS V	5	8.0-10.0	7.40	3	nd	--	9.72	220.4	27.0	156.6	195.0	710	487.0
	6	15.0-19.0	7.73	-16	13.56	--	--	230.5	3.9	98.4	274.0	1165	483.0
15/V/74	7	29.0-32.5	7.75	-5	12.98	--	18.03	239.7	6.5	71.0	350.0	1100	448.0
	8	47.5-52.0	7.73	-3	nd	--	20.19	248.0	5.1	61.9	328.0	1250	499.0
	9	73.0-77.0	7.58	-113	10.72	--	21.21	262.0	4.0	43.7	211.0	1145	658.0
	10	98.0-102.0	7.50	-130	10.88	--	19.82	260.7	2.9	25.5	130.0	1072	704.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 853E #3	0	0.0-0.0	--	--	--	--	0.37	153.4	2.0	nd	0.5	nd	44.3
	1	0.0-2.0	7.30	56	nd	--	3.34	183.0	59.0	355.2	66.0	170	265.0
38°53'0"	2	2.0-4.0	7.51	32	nd	--	5.01	197.2	80.9	289.6	126.0	270	322.0
76°24'59"	3	4.0-6.0	7.41	31	nd	--	5.97	207.8	67.5	174.9	168.0	410	383.0
	4	6.0-8.0	7.42	10	nd	--	7.76	213.4	39.3	142.1	182.0	560	444.0
Cr: CBASS V	5	8.0-10.0	7.49	-19	nd	--	9.79	223.6	26.5	129.3	199.0	690	469.0
	6	15.0-17.5	7.75	2	nd	--	14.85	229.7	6.0	80.1	269.0	905	467.0
Date: 15/V/74	7	27.5-30.5	7.79	13	nd	--	18.94	237.1	4.5	61.9	362.0	1070	444.0
	8	45.0-49.0	7.78	16	nd	--	22.96	253.9	8.4	65.6	346.0	1330	444.0
	9	75.0-79.0	7.68	-112	10.30	--	22.37	254.4	3.8	40.1	246.0	1190	656.0
	10	100.0-105.0	7.55	-130	10.62	--	20.19	259.4	3.2	21.9	167.0	1295	732.0
Station: 853E #4	0	0.0-0.0	--	--	--	--	1.50	154.0	1.0	--	nd	nd	42.2
	1	0.0-2.0	7.35	30	nd	--	3.00	182.0	9.0	324.2	32.0	250	210.0
38°53'0"	2	2.0-4.0	7.39	23	nd	--	2.76	190.1	26.1	364.3	76.0	285	297.0
76°24'59"	3	4.0-6.0	7.45	20	nd	--	5.40	207.4	82.7	306.0	156.0	410	370.0
	4	6.0-8.0	7.35	17	nd	--	5.79	206.8	62.5	209.5	171.0	506	414.0
Cr: CBASS V	5	8.0-10.0	7.42	11	nd	--	9.13	217.5	30.1	169.4	181.0	610	486.0
	6	15.0-17.5	7.72	-7	nd	--	12.66	227.3	3.9	92.9	232.0	875	469.0
Date: 15/V/74	7	27.5-30.0	7.72	-1	nd	--	15.01	235.1	7.3	72.9	319.0	1090	446.0
	8	44.5-48.5	7.73	7	nd	--	20.25	245.5	6.6	74.7	348.0	1215	467.0
	9	68.5-74.5	7.65	-101	10.91	--	19.66	252.4	9.3	49.2	251.0	1196	633.0
	10	100.0-105.0	7.48	-130	11.04	--	19.56	255.6	8.8	27.3	155.0	1070	692.0
Station: 853E #5	0	0.0-0.0	--	--	--	--	0.85	121.9	2.0	--	nd	nd	65.0
	1	0.0-2.0	7.40	7	nd	--	6.02	175.4	5.9	118.4	49.0	495	276.0
38°53'0"	2	2.0-4.0	7.45	3	nd	--	5.79	185.2	77.7	318.8	130.0	360	327.0
76°25'0"	3	4.0-6.0	7.45	7	nd	--	8.11	198.3	58.0	316.9	142.0	520	363.0
	4	6.0-8.0	7.34	-4	nd	--	8.70	207.1	59.3	178.5	159.0	725	421.0
Cr: CBASS V	5	8.0-10.0	7.35	-9	13.44	--	10.22	209.0	28.0	133.0	162.0	750	466.0
	6	15.0-18.0	7.72	-30	12.34	--	15.56	219.2	2.7	83.8	223.0	980	482.0
Date: 15/V/74	7	28.0-30.5	7.77	-2	nd	--	18.80	227.4	2.5	76.5	340.0	1280	506.0
	8	45.5-49.5	7.70	3	nd	--	22.57	245.4	13.0	83.8	367.0	3065	482.0
	9	69.0-74.5	7.68	-68	11.79	--	23.26	251.0	5.0	69.2	312.0	1330	619.0
	10	93.5-98.0	7.54	-127	11.27	--	21.88	254.0	2.1	38.3	219.0	1425	746.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 853G #1	0	0.0-0.0	--	--	--	--	0.21	126.1	0.3	--	nd	35	40.3
	1	0.0-2.0	7.12	-103	11.53	--	0.98	128.1	4.6	47.4	4.1	6	128.8
38°52'58"	2	2.0-4.0	7.09	-59	13.31	--	1.43	131.7	13.6	83.8	1.0	20	152.0
76°27'0"	3	4.0-6.0	7.09	-45	nd	--	1.65	138.2	27.1	116.6	29.0	135	256.0
	4	6.0-8.0	7.08	-41	nd	--	2.07	146.8	27.0	111.1	41.0	73	289.0
Cr: CBASS V	5	8.0-10.0	7.52	-76	nd	--	2.81	150.3	16.5	103.8	53.0	146	319.0
	6	15.0-17.0	7.22	-90	11.27	--	5.35	189.3	2.4	94.7	107.0	432	458.0
Date: 16/V/74	7	27.5-30.0	7.18	-131	10.39	--	10.49	191.3	3.4	32.8	183.0	645	624.0
	8	45.0-49.5	7.24	-158	10.23	--	16.23	198.1	4.4	20.0	185.0	1024	652.0
	9	64.5-68.5	7.10	-162	10.30	--	19.75	189.8	2.2	13.7	190.0	1217	662.0
	10	85.0-89.0	7.10	-160	10.43	--	21.17	183.7	1.7	12.8	395.0	1390	683.0
Station: 853G #2	0	0.0-0.0	--	--	--	--	0.78	124.1	nd	--	nd	nd	47.3
	1	0.0-2.0	7.12	-90	nd	--	0.75	127.5	1.8	142.1	nd	33	128.0
38°52'59"	2	2.0-4.0	7.09	-70	nd	--	0.09	129.4	1.3	61.9	4.8	53	155.0
76°27'0"	3	4.0-6.0	7.08	-68	nd	--	0.47	133.1	21.2	71.0	2.7	nd	196.3
	4	6.0-8.0	7.33	-67	nd	--	0.00	141.7	16.4	123.9	21.0	66	310.0
Cr: CBASS V	5	8.0-10.0	7.35	-67	12.82	--	1.65	152.9	2.8	--	49.0	106	403.0
	6	15.0-17.0	7.34	-126	10.59	--	4.30	--	3.5	--	67.0	346	652.0
Date:16/V/74	7	28.0-30.5	7.36	-158	10.39	--	4.41	142.6	3.1	29.1	83.0	472	749.0
	8	46.0-50.0	7.48	-167	10.46	--	6.16	121.2	2.5	16.8	67.0	612	735.0
	9	70.0-75.0	7.48	-168	11.27	--	5.99	91.6	2.6	13.7	59.0	791	739.0
	10	100.0-106.0	7.60	-156	11.85	--	4.69	64.8	4.4	10.6	46.0	732	780.0
Station: 853C #1	0	0.0-0.0	--	--	nd	--	2.66	236.5	6.8	--	6.0	92	50.9
	1	0.0-2.0	7.38	83	nd	--	10.17	239.8	129.0	643.0	76.0	1144	306.2
38°52'58"	2	2.0-4.0	7.52	-3	nd	--	13.82	244.0	357.0	519.1	379.0	1453	412.4
76°23'0"	3	4.0-6.0	7.40	-119	11.79	--	17.81	253.6	18.6	293.3	419.0	1920	459.3
	4	6.0-8.0	7.57	-135	10.94	--	22.77	262.4	3.3	338.8	743.0	2350	492.0
Cr: CBASS V	5	8.0-10.0	7.41	-137	11.11	--	27.21	269.5	4.6	262.3	601.0	2700	498.1
	6	15.0-18.0	7.33	-46	13.53	--	33.01	277.8	66.5	340.6	692.0	4120	626.8
Date: 14/V/74	7	25.0-28.0	7.31	-41	13.24	--	36.06	285.1	17.2	176.7	716.0	4120	635.0
	8	43.0-47.0	7.48	-37	13.14	--	35.53	291.6	11.6	89.3	690.0	3670	571.7
	9	67.0-71.0	7.34	-33	nd	--	34.96	294.9	63.2	147.5	694.0	3780	536.9
	10	103.0-107.0	7.23	-19	nd	--	--	296.6	212.2	142.1	464.0	3850	553.3

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station 853G #3	0	0.0-0.0	--	--	--	--	0.70	124.3	nd	--	0.5	7	86.5
	1	0.0-2.0	7.02	-1	nd	--	1.39	126.3	6.5	100.2	nd	27	260.0
38°53'0"	2	2.0-4.0	7.31	-2	nd	--	2.26	128.4	14.8	224.0	nd	86	365.0
76°26'59"	3	4.0-6.0	7.40	+3	nd	--	4.88	133.2	64.8	364.3	18.0	259	397.0
	4	6.0-8.0	7.41	0	nd	--	5.10	139.3	86.3	264.1	22.0	319	474.0
Cr: CBASS V	5	8.0-10.0	7.46	-9	nd	--	5.49	147.5	35.0	--	82.0	439	639.0
	6	15.0-18.0	7.52	-19	7.80	--	7.11	165.6	9.3	145.7	142.0	605	998.0
16/V/74	7	28.0-31.0	7.59	-142	4.65	--	10.66	152.6	2.0	36.4	128.0	758	1330.0
	8	46.0-50.0	7.62	-146	4.45	--	8.53	140.6	3.0	19.7	118.0	718	1370.0
	9	71.0-75.0	7.67	-168	4.15	--	9.70	121.1	0.6	13.7	98.0	765	1450.0
	10	90.0-95.0	7.67	-167	4.60	--	9.29	103.0	1.8	7.8	92.0	971	1450.0
Station 853G #4	0	0.0-0.0	--	--	--	--	1.76	125.0	nd	nd	nd	86	86.5
	1	0.0-2.0	6.87	-6	nd	--	1.33	128.2	7.1	32.8	1.0	60	248.0
38°53'0"	2	2.0-4.0	7.04	-4	nd	--	1.43	127.5	27.6	105.6	13.0	73	317.0
76°27'1"	3	4.0-6.0	7.08	-3	nd	--	1.69	133.8	30.9	131.1	5.3	86	434.0
	4	6.0-8.0	7.22	-4	nd	--	1.53	134.6	32.6	94.7	10.0	20	514.0
Cr: CBASS V	5	8.0-10.0	7.30	-4	nd	--	2.21	144.4	29.0	94.7	24.0	126	587.0
	6	15.0-18.0	7.52	-135	4.35	--	3.38	165.6	2.4	74.7	68.0	379	1139.0
16/V/74	7	28.0-30.0	7.63	-150	4.40	--	6.09	143.8	3.0	40.1	78.0	525	1366.0
	8	45.0-49.0	7.61	-162	4.05	--	7.71	125.5	2.1	20.9	73.0	685	1475.0
	9	69.0-74.0	7.62	-165	4.10	--	7.10	93.9	0.9	16.8	55.0	--	1487.0
	10	93.0-98.0	7.54	-133	5.25	--	5.75	65.0	3.3	13.7	43.0	798	1596.0

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 858C	0	0.0-0.0	7.48	-175	--	--	2.1	296.6	19.3	--	13.6	--	--
	1	0.0-2.0	7.42	-268	--	--	11.4	284.0	36.7	--	265.7	--	--
38°57'43"	2	2.0-4.0	7.51	-382	--	--	18.8	282.4	6.3	--	440.4	--	--
76°22'49"	3	4.0-6.0	7.51	-366	--	--	23.5	--	10.0	--	376.4	--	--
	4	6.0-8.0	7.35	-344	--	--	25.4	283.3	9.1	--	294.8	--	--
Cr: CBASS VI	5	8.0-10.0	7.32	-253	--	--	28.4	275.1	89.3	--	215.8	--	--
	6	15.0-19.0	7.24	-257	--	--	31.6	281.6	378.8	--	333.3	--	--
2/IX/74	7	28.5-33.5	7.30	-244	--	--	34.9	285.1	107.3	--	538.9	--	--
	8	49.0-55.0	7.31	-250	--	--	35.5	296.9	115.9	--	515.5	--	--
	9	75.5-81.0	7.30	-251	--	--	37.8	285.5	264.6	--	413.2	--	--
	10	107.0-112.0	7.28	-260	--	--	39.5	301.8	489.0	--	262.6	--	--
Station: 904N	0	0.0-0.0	7.12	-140	--	--	0.8	227.6	14.4	--	--	188	--
	1	0.0-2.0	7.27	-216	--	--	13.4	215.6	327.6	--	94.5	1811	--
39°04'20"	2	2.0-4.0	7.42	-240	--	--	20.8	215.4	408.0	--	197.5	1931	--
76°23'35"	3	4.0-6.0	7.38	-252	--	--	25.0	214.3	430.1	--	226.1	2534	--
	4	6.0-8.0	7.34	-241	--	--	28.0	213.2	403.4	--	263.0	3107	--
Cr: CBASS VI	5	8.0-10.0	7.26	-204	--	--	28.4	210.7	118.6	--	225.5	3518	--
	6	14.4-17.2	7.11	-233	--	--	30.7	217.6	997.5	--	111.6	4766	--
1/IX/74	7	27.4-30.3	7.09	-237	--	--	35.9	226.3	876.2	--	162.9	5713	--
	8	50.1-55.1	7.11	-223	--	--	34.8	240.2	801.3	--	150.1	5062	--
	9	74.7-79.4	7.04	-228	--	--	36.7	249.7	975.3	--	81.9	6853	--
	10	94.4-99.1	7.04	-225	--	--	37.0	251.6	933.0	--	162.8	6672	--
Station: 922Y	0	0.0-0.0	7.12	-118	--	--	--	71.0	0.8	--	nd	--	--
	1	0.0-2.0	6.86	-139	--	--	--	--	0.8	--	--	--	--
39°22'20"	2	2.0-4.0	6.92	-172	--	--	3.1	57.1	3.3	--	65.3	--	--
76°07'43"	3	4.0-6.0	6.73	-186	--	--	3.9	47.8	3.3	--	111.0	--	--
	4	6.0-8.0	7.12	-202	--	--	6.6	44.9	11.8	--	112.0	--	--
Cr: CBASS VI	5	8.0-10.0	7.17	-224	--	--	8.1	--	26.3	--	146.8	--	--
	6	15.0-17.0	7.01	-217	--	--	13.1	57.8	83.5	--	223.0	--	--
2/IX/74	7	27.0-31.0	6.93	-217	--	--	17.4	68.7	160.5	--	273.8	--	--
	8	41.5-46.5	6.91	-202	--	--	21.7	75.0	201.7	--	261.4	--	--
	9	57.0-62.0	6.82	-188	--	--	21.1	76.2	259.1	--	303.4	--	--
	10	72.0-76.5	6.89	-197	--	--	27.6	86.5	262.0	--	352.6	--	--

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 914S	0	0.0-0.0	7.74	-7	--	4.7	0.52	41.9	0.2	--	nd	67	22
	1	0.0-2.0	7.28	+34	--	5.8	2.09	63.1	0.7	--	nd	92	78
39°14'0"	2	2.0-4.0	7.11	+37	--	6.0	2.43	79.6	21.1	--	4	190	125
76°16'0"	3	4.0-6.0	7.32	-20	--	7.4	3.38	98.6	119.1	--	39	184	--
	4	6.0-8.0	7.39	-47	--	5.5	3.86	103.2	135.3	--	82	300	184
Cr: CBASS VII	5	8.0-10.0	7.41	-60	--	2.0	5.19	109.5	138.3	--	106	441	329
	6	15.0-18.0	7.57	-62	--	0.2	12.48	123.5	69.7	--	149	1006	374
14/V/75	7	23.0-27.0	7.72	-83	--	0.8	17.29	147.6	69.5	--	167	1717	430
	8	36.5-41.5	7.62	-121	--	0.1	21.30	136.5	233.2	--	169	2454	366
	9	51.5-58.0	7.53	-108	--	0.3	23.30	151.6	141.1	--	147	2920	396
	10	73.0-79.0	7.49	-123	--	0.3	24.58	170.7	477.4	--	88	4318	340
Station: 858C	0	0.0-0.0	7.57	-56	--	23.9	2.36	261.0	2.7	--	1	532	14
	1	0.0-2.0	7.48	-134	--	16.5	7.30	273.0	14.1	--	86	943	316
38°57'43"	2	2.0-4.0	7.55	-61	--	17.2	12.09	280.1	164.5	--	208	1027	271
76°22'49"	3	4.0-6.0	7.68	-83	--	12.6	17.83	276.4	173.8	--	402	1565	631
	4	6.0-8.0	7.58	-253	--	7.7	21.72		9.7	--	479	2061	660
Cr: CBASS VII	5	8.0-10.0	7.60	-258	--	5.6	24.05	288.7	4.3	--	528	2339	584
	6	14.5-17.0	7.40	-168	--	0.7	30.64	315.1	269.7	--	419	2991	445
14/V/75	7	23.0-27.0	7.37	-122	--	0.7	34.01	315.1	50.5	--	574	3632	705
	8	37.9-42.0	7.36	-115	--	0.5	37.57	312.7	70.0	--	654	4617	634
	9	56.0-61.0	7.30	-104	--	0.4	42.03	306.1	224.0	--	626	5560	631
	10	98.5-105.0	7.23	-116	--	0.4	44.50	308.0	892.0	--	211	6690	623
Station: 858C	0	0.0-0.0	7.11	+9	--	21.2	--	251.9	nd	--	nd	--	7
	1	2.0-4.0	7.05	-46	--	17.5	3.71	262.7	232.2	--	94	--	321
38°57'43"	2	6.0-8.5	7.62	-198	--	5.1	14.91	293.6	10.0	--	356	--	588
76°22'49"	3	10.0-12.5	7.70	-283	--	3.0	20.94	274.7	4.5	--	398	--	657
Cr: CBASS VII	4	14.0-16.5	7.73	-300	--	0.6	24.26	278.1	4.8	--	346	--	630
	5	18.0-20.5	7.72	-197	--	0.5	27.26	283.8	4.9	--	490	--	633
14/V/75	6	22.0-28.5	7.68	-129	--	0.5	29.13	280.4	10.5	--	503	--	648
	7	30.0-40.0	7.64	-94	--	0.5	31.38	282.1	24.6	--	496	--	639
	8	71.0-85.5	7.32	-97	--	0.4	36.13	289.0	389.9	--	334	--	619

	Sample Number	Sampling Interval cm	pH	Eh(mv)	pS	SO_4 meq/L	CO_3 meq/L	Cl mmol	Fe_2 µmol	Mn µmol	PO_4 µmol	NH_3 µmol	SiO_2 µmol
Station: 834G	0	0.0-0.0	7.44	111	--	20.5	2.16	296.6	1.3	--	0	--	10
	1	0.0-2.0	7.08	42	--	21.3	2.83	240.4	193.6	--	44	--	352
38°33'36"	2	2.0-4.5	7.02	32	--	23.2	3.58	238.2	87.6	--	44	--	449
76°26'18"	3	4.5-6.5	7.05	23	--	12.9	3.96	240.4	54.0	--	73	--	515
	4	6.5-8.5	7.33	-153	--	12.9	4.72	240.4	12.0	--	92	--	564
Cr: CBASS VII	5	8.5-10.0	7.46	-223	--	7.6	6.90	249.6	9.9	--	132	--	612
	6	15.0-17.5	7.63	-281	--	7.1	13.43	261.6	5.2	--	213	--	724
14/V/75	7	25.0-29.0	7.69	-293	--	6.7	17.97	--	4.8	--	214	--	702
	8	42.0-47.0	7.76	-305	--	1.0	20.33	273.0	6.3	--	201	--	754
	9	67.0-71.5	7.69	-309	--	4.6	21.94	292.4	6.0	--	178	--	721
	10	107.0-112.0	7.74	-310	--	--	20.62	289.6	5.5	--	91	--	724
Station: 812S	0	0.0-0.0	7.65	-173	--	27.6	1.86	371.8	2.2	--	1	490	nd
	1	0.0-2.0	7.23	-196	--	24.8	8.59	311.6	12.2	--	264	1120	271
38o12'	2	2.0-4.0	7.37	-251	--	9.1	20.72	341.2	7.4	--	498	2190	1017
76°15'	3	4.0-6.0	7.40	-266	--	7.6	26.88	316.8	7.0	--	507	3467	1036
	4	6.0-8.0	7.39	-276	--	3.0	29.29	314.9	10.9	--	741	3355	1069
Cr: CBASS VII	5	8.0-10.0	7.41	-286	--	0.6	33.36	315.5	7.8	--	776	4109	1050
	6	15.0-17.5	7.39	-276	--	0.6	37.11	325.4	19.0	--	848	5336	1061
13/V/75	7	25.0-28.5	7.57	-255	--	0.5	41.81	317.4	6.2	--	815	5764	1185
	8	40.0-44.5	7.58	-190	--	0.5	45.07	326.5	19.5	--	759	5932	1259
	9	59.0-64.0	7.51	-163	--	0.4	46.30	325.1	34.6	--	653	5876	876
	10	89.0-94.0	7.61	-153	--	0.4	44.02	328.5	19.3	--	571	5989	876
Station: 747A	0	0.0-0.0	7.40	+43	--	33.3	1.90	337.3	1.5	--	3	2	nd
	1	0.0-2.0	7.11	-76	--	29.8	5.93	335.9	1138.3	--	185	462	723
37o47'	2	2.0-4.0	6.94	-165	--	22.9	8.45	333.8	113.1	--	160	661	1025
76°11'	3	4.0-6.0	7.08	-190	--	27.0	11.39	334.1	71.5	--	192	916	901
	4	6.0-8.0	7.12	-257	--	12.9	14.66	335.3	6.9	--	196	1121	812
Cr: CBASS VII	5	8.0-10.0	7.24	-267	--	15.9	17.27	341.0	13.3	--	251	1141	1058
	6	15.0-17.5	7.47	-326	--	2.3	29.89	343.7	6.0	--	364	1909	898
13/V/75	7	24.5-28.5	7.59	-334	--	0.3	35.06	346.3	7.0	--	316	2089	855
	8	49.5-54.5	7.70	-345	--	0.5	38.57	350.0	11.5	--	252	2144	855
	9	79.5-84.5	7.68	-343	--	0.4	41.85	360.8	7.1	--	320	2873	842
	10	109.0-103.0	7.60	-332	--	0.4	45.31	358.3	11.3	--	390	3717	825

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 914S	0.	82.	0.0- 0.0	29.	--	2.	20.25
	2.	400.	0.0- 2.0	57.	--	6.	20.39
$39^0 14'0"$	4.	312.	2.0- 4.0	73.	--	10.	20.43
$76^0 16'0"$	6.	241.	4.0- 6.0	294.	--	14.	20.48
	10.	325.	6.0- 8.0	316.	--	18.	20.45
Cr: Sea Dog I	14.	381.	8.0- 10.0	272.	--	26.	20.28
	18.	381.	10.0- 12.0	362.	--	34.	20.12
1/X/75	24.	312.	14.0- 16.0	487.	--	42.	20.04
	32.	328.	24.0- 26.0	587.	--	50.	19.86
	48.	381.	39.0- 41.0	443.	--	58.	19.73
	72.	372.	83.0- 87.0	322.	--	66.	19.53
	96.	415.				74.	19.42
						82.	19.18
						90.	18.90
Station: 858C	1.	438.	0.0- 0.0	0.	--	1.	22.03
	3.	463.	0.0- 2.0	349.	--	3.	22.13
38 57'43"	5.	920.	2.0- 4.0	794.	--	5.	22.05
76 22'49"	7.	865.	4.0- 6.0	905.	--	7.	21.97
	9.	735.	6.0- 8.0	770.	--	9.	21.80
Cr: Sea Dog I	15.	693.	8.0- 10.0	721.	--	11.	21.79
			25.0- 28.0	902.	--	15.	21.72
1/X/75			35.0- 39.0	813.	--	23.	21.34
			50.5- 55.0	712.	--	29.	21.20
			81.0- 85.5	708.	--	35.	20.93
			111.0- 116.0	773.	--	41.	20.61
						47.	20.32
						55.	19.99
						63.	19.68
						71.	19.28
						83.	18.72
						91.	18.69
						99.	18.08
						107.	17.95
						115.	17.58
						123.	17.29

Station: 858C

$38^0 57'43''$
$76^0 22'49''$

Cr: Sea Dog II

31/X/75

DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
0.	533.	0.0- 0.0	23.	266.8	0.	19.86
2.	787.	0.0- 2.0	203.	270.9	2.	19.78
4.	868.	2.0- 5.5	577.	262.1	4.	19.57
6.	829.	5.5- 7.5	844.	260.3	6.	19.72
8.	721.	7.5- 9.0	823.	260.1		
10.	619.	9.0- 11.0	778.	264.2	10.	19.37
12.	592.	11.0- 13.0	739.	264.0		
22.	865.	13.0- 14.5	667.	266.4	14.	19.67
32.	907.	24.5- 29.5	652.	268.9	16.	19.53
50.	853.	47.5- 52.5	880.	273.8	18.	19.25
94.	781.	85.0- 92.0	739.	279.2	20.	19.43
					24.	19.00
					30.	18.61
					34.	18.93
					40.	18.71
					52.	18.13
					56.	18.14
					62.	17.69
					74.	17.32
					82.	17.24
					90.	16.97
					94.	16.67
					110.	16.37
					118.	16.00

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 848E	0.	380.	0.0- 0.0	28.	270.6	0.	19.94
	2.	727.	0.0- 2.5	204.	280.1	2.	19.98
$38^0 48'0"$	4.	833.	2.5- 6.5	877.	279.1	4.	20.04
$76^0 25'0"$	6.	883.	6.5- 9.0	924.	281.7	6.	20.03
	8.	854.	9.0- 11.0	995.	279.1	8.	20.01
Cr: Sea Dog II	10.	774.	11.0- 13.5	1033.	285.9	10.	19.98
	14.	674.	13.5- 15.0	1104.	287.9	12.	19.99
31/X/75	22.	836.	25.5- 28.0	986.	285.0	16.	19.99
	30.	842.	45.5- 51.0	886.	282.6	20.	19.93
	46.	819.	100.0- 105.5	921.	293.1	24.	19.86
	64.	821.			299.2	28.	19.82
	108.	874.				36.	19.56
						44.	19.40
						52.	19.27
						62.	19.09
						70.	18.84
						78.	18.58
						86.	18.39
						94.	18.16
						102.	17.99
						110.	17.69
						118.	17.45
						126.	17.37
Station: 914S	2.	261.	0.0- 0.0	70.	94.0	0.	10.35
	4.	247.	0.0- 2.0	119.	92.4	2.	10.75
$39^0 14'0"$	6.	267.	2.0- 4.0	244.	119.5	4.	10.92
$76^0 16'0"$	8.	310.	4.0- 6.0	264.	135.1	6.	11.24
	12.	370.	6.0- 7.5	304.	143.3	12.	11.70
Cr: Sea Dog III	16.	470.	7.5- 9.0	342.	144.5	14.	12.20
	20.	545.	15.0- 17.0	510.	147.4	18.	12.82
4/XII/75	28.	485.	26.5- 30.0	387.	148.2	22.	13.19
	34.	404.	42.0- 46.0	353.	158.5	30.	13.86
	52.	347.	57.0- 61.0	290.	174.1	38.	14.20
	68.	293.	77.0- 81.0	316.	192.5	46.	14.88
	84.	376.				54.	15.27
						62.	15.08
						74.	15.32
						82.	15.09

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 858C	2.	245.	0.0- 0.0	26.	219.8	0.	13.83
	4.	560.	0.0- 2.0	133.	221.5	1.	15.10
$38^0$57'43"	6.	808.	2.0- 5.0	752.	251.5	3.	14.76
$76^0$22'49"	8.	713.	5.0- 7.0	755.	261.8	5.	14.32
	10.	657.	7.0- 9.0	660.	268.4	7.	14.60
Cr: Sea Dog III	16.	660.	9.0- 11.0	607.	272.9	11.	15.91
	30.	799.	15.0- 17.0	575.	277.5	15.	16.49
4/XII/75	42.	805.	25.0- 27.0	637.	280.8	19.	16.61
	56.	672.	40.0- 45.5	819.	282.4	23.	16.51
	72.	634.	65.0- 70.0	637.	293.9	25.	16.29
	92.	669.	110.0- 114.0	681.	300.5	29.	16.70
	118.	704.				33.	16.66
						37.	16.97
						43.	17.21
						53.	17.95
						61.	17.93
						73.	18.33
						89.	17.83
						105.	17.32
						117.	17.43
Station: 858C	0.	183.	0.0- 0.0	41.	230.8	0.	6.34
	2.	378.	0.0- 2.0	196.	255.0	2.	7.02
38 57'43"	4.	573.	2.0- 5.5	492.	254.6	4.	7.45
76 22'49"	6.	598.	5.5- 7.5	539.	253.8	6.	7.58
	8.	687.	7.5- 9.5	647.	257.8	8.	7.92
Cr: Sea Dog IV	10.	718.	9.5- 11.5	663.	262.2	10.	8.19
	16.	514.	14.5- 16.5	474.	267.1	12.	8.41
6/I/76	20.	455.	24.0- 26.0	703.	275.2	14.	8.73
	32.	802.	37.0- 41.0	709.	284.9	18.	9.20
	74.	659.	75.0- 80.0	647.	293.8	22.	9.66
			110.0- 115.0	706.	301.9	26.	10.06
						30.	10.38
						36.	11.14
						40.	11.25
						48.	11.83
						56.	12.30
						64.	12.50
						72.	12.50
						80.	12.72
						88.	13.00
						96.	13.17
						104.	13.20

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 914S	1.	183.	0.0- 0.0	50.	132.8	0.	2.10
	3.	259.	0.0- 2.0	50.	149.7	4.	2.45
$39^0$14'0"	5.	250.	2.0- 3.5	184.	138.4	6.	2.45
$76^0$16'0"	7.	241.	3.5- 5.5	220.	145.3	10.	2.86
	9.	244.	5.5- 7.0	226.	146.1	14.	3.21
Cr: Sea Dog V	13.	290.	7.0- 8.5	229.	145.3	18.	3.71
	21.	438.	15.0- 17.0	317.	145.7	26.	4.18
9/II/76	29.	414.	22.0- 25.5	426.	143.1	38.	5.41
	45.	338.	32.0- 36.0	366.	161.3	50.	6.39
	61.	287.	45.0- 50.0	335.	157.8	62.	7.19
	73.	247.	65.0- 69.0	256.	176.6	70.	8.02
	89.	256.				82.	8.04
Station: 858C						0.	2.20
	2.	393.	0.0- 0.0	9.	202.2	8.	3.41
$38^0$57'43"	6.	507.	0.0- 2.0	114.	219.7	24.	5.89
$76^0$22'49"	8.	609.	2.0- 7.0	441.	252.6	40.	7.85
	10.	651.	7.0- 8.5	534.	256.3	56.	9.70
Cr: Sea Dog V	14.	588.	8.5- 10.0	597.	272.9	72.	10.80
	30.	639.	10.0- 11.0	600.	271.7	88.	11.81
9/II/76	48.	717.	15.0- 17.0	435.	270.5	104.	12.40
	72.	618.	25.0- 27.0	573.	283.1	120.	12.35
	112.	690.	50.0- 54.0	633.	282.7		
			75.0- 79.0	603.	295.0		
			105.5- 110.0	675.	310.8		
Station: 858C	3.	390.	0.0- 0.0	8.	199.3	0.	3.92
	5.	452.	0.0- 2.0	241.	198.7	4.	4.41
$38^0$57'43"	9.	413.	2.0- 5.5	376.	244.7	4.	4.76
$76^0$22'49"	12.	343.	5.5- 7.0	455.	256.0	8.	4.54
	42.	579.	7.0- 8.5	457.	266.7	14.	5.11
Cr: Sea Dog VI	64.	497.	8.5- 11.0	397.	269.7	16.	4.75
	88.	511.	15.0- 18.0	392.	275.2	24.	5.59
9/III/76	112.	480.	25.0- 28.0	564.	276.7	26.	5.06
			55.0- 60.0	485.	289.8	34.	5.67
			80.0- 84.5	513.	296.8	38.	5.14
			110.0- 115.0	483.	297.5	44.	5.90
						46.	5.85
						56.	6.51
						56.	6.98
						68.	6.92
						76.	7.45
						100.	8.15
						112.	8.58
						128.	9.74

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 914S	0.	43.	0.0- 0.0	16.	133.6	2.	8.75
	2.	72.	0.0- 2.0	43.	124.6	8.	8.71
$39^0$14'0"	4.	87.	2.0- 4.0	72.	105.7	14.	8.77
$76^0$16'0"	6.	110.	4.0- 6.0	84.	85.6	22.	8.71
	8.	158.	6.0- 8.0	143.	81.3	34.	8.86
Cr: Sea Dog VII	14.	218.	8.0- 10.0	218.	84.8	42.	8.85
	22.	322.	15.0- 17.5	311.	126.1	54.	8.99
8/IV/76	30.	464.	30.0- 32.0	307.	153.5	62.	9.07
	42.	311.	50.0- 52.0	360.	159.4	74.	9.07
	58	319.	80.0- 83.5	337.	182.6	78.	9.28
	74.	333.	105.0- 109.0	266.	194.4	86.	9.49
	94.	233.					
Station: 858C	1.	209.	0.0- 0.0	0.	200.8	2.	8.25
	3.	309.	0.0- 2.0	114.	221.7	5.	8.09
$38^0$57'43"	5.	469.	2.0- 6.0	326.	235.4	6.	8.20
$76^0$22'49"	7.	478.	6.0- 7.5	426.	245.7	14.	8.05
	9.	438.	7.5- 9.5	406.	251.8	22.	8.04
Cr: Sea Dog VII	21.	631.	9.5- 11.0	329.	259.0	30.	8.16
	53.	604.	19.5- 21.0	578.	275.4	42.	8.48
8/IV/76	77.	593.	39.0- 41.0	522.	284.5	50.	8.58
	107.	542.	65.5- 68.0	532.	286.9	64.	8.94
			92.5- 96.0	457.	286.9	72.	8.89
			129.0- 133.0	484.	294.8	80.	9.08
						92.	8.99
						100.	9.71
						112.	9.97
						124.	10.46
Station: 858C	4.	470.	0.0- 0.0	0.	176.5	0.	15.16
	8.	372.	0.0- 2.0	212.	195.3	4.	14.05
$38^0$57'43"	10.	387.	2.0- 3.5	421.	218.3	12.	13.69
$76^0$22'49"	14.	589.	3.5- 7.8	396.	242.0	22.	13.30
	20.	625.	7.5- 9.0	354.	249.5	32.	12.47
Cr: Sea Dog VIII	30.	638.	9.0- 10.0	369.	257.6	42.	12.02
	44.	531.	16.0- 18.5	578.	275.7	50.	11.89
17/V/76	62.	502.	31.0- 33.5	578.	280.1	62.	11.97
	84.	454.	50.5- 54.0	510.	288.8	74.	11.73
	110.	477.	81.0- 85.0	508.	294.4	82.	11.97
			111.0- 116.0	475.	296.3	92.	11.46
						102.	11.55
						110.	12.01

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 848E	1.	481.	0.0- 0.0	0.	192.6	2.	14.98
	3.	618.	0.0- 2.0	253.	201.9	8.	14.36
$38^0$48'0"	7.	623.	2.0- 5.5	658.	244.5	18.	14.46
$76^0$25'0"	9.	535.	5.5- 7.0	701.	248.8	30.	12.96
	13.	506.	7.0- 9.5	636.	252.5	38.	11.99
Cr: Sea Dog VIII	23.	602.	9.5- 11.0	609.	261.7	46.	11.94
	35.	618.	15.0- 17.0	643.	273.5	58.	11.67
17/V/76	47.	560.	30.0- 32.0	587.	283.3	66.	11.96
	63.	578.	49.5- 52.0	598.	279.6	74.	11.90
	83.	562.	80.0- 84.0	558.	279.6	90.	12.11
	111.	573.	110.0- 114.5	544.	275.3	98.	12.71
						106.	13.04
						114.	12.92
Station: 914S	1.	119.	0.0- 0.0	13.	130.8	1.	18.28
	3.	202.	0.0- 2.0	72.	132.5	5.	17.79
$39^0$14'0"	5.	334.	2.0- 5.0	121.	107.4	11.	17.32
$76^0$16'0"	7.	332.	5.0- 6.5	267.	88.9	17.	16.71
	9.	298.	6.5- 8.0	280.	84.6	25.	16.19
Cr: Sea Dog IX	13.	260.	8.0- 9.5	285.	91.1	35.	15.62
	19.	395.	15.0- 18.0	361.	116.3	47.	15.31
8/VI/76	29.	395.	25.0- 28.0	386.	141.2	55.	15.08
	41.	339.	50.0- 52.5	312.	156.0	67.	14.72
	57.	312.	69.0- 73.5	229.	174.5	75.	15.01
	73.	227.	94.0- 98.5	222.	191.1	83.	14.42
	93.	222.				95.	13.18
Station: 858C	1.	248.	0.0- 0.0	16.	259.0	1.	18.52
	3.	624.	0.0- 2.0	17.	273.2	7.	17.16
$38^0$57'43"	7.	505.	2.0- 7.0	455.	242.4	17.	16.69
$76^0$22'49"	9.	493.	7.0- 9.0	406.	248.6	27.	15.98
	15.	377.	9.0- 11.0	375.	251.6	37.	15.39
Cr: Sea Dog IX	23.	536.	11.0- 12.5	386.	259.0	47.	14.64
	33.	624.	15.0- 17.0	621.	271.3	55.	14.32
8/VI/76	45.	561.	25.0- 28.0	588.	278.7	67.	13.70
	61.	554.	50.0- 53.5	550.	289.2	75.	14.02
	77.	523.	80.0- 85.0	541.	294.7	83.	13.61
			120.0- 127.0	487.	295.9	95.	13.45
						107.	13.20
						119.	12.66
						131.	12.45

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SIO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 858C	1.	593.	0.0- 0.0	52.	232.8	2.	19.55
	3.	752.	0.0- 2.0	222.	235.3	6.	19.48
$38^0$57'43"	5.	621.	2.0- 5.5	745.	240.8	14.	18.59
$76^0$22'49"	7.	573.	5.5- 6.5	565.	244.7	22.	18.32
	9.	613.	6.5- 7.5	560.	246.4	32.	17.49
Cr: Sea Dog X	13.	723.	7.5- 8.5	617.	251.3	42.	16.65
	19.	515.	14.0- 16.5	584.	263.0	52.	15.40
9/VII/76	29.	613.	24.0- 26.5	426.	272.2	62.	14.93
	43.	684.	50.0- 52.5	678.	282.1	74.	14.41
	59.	615.	80.0- 83.0	506.	289.5	90.	15.16
	75.	580.	110.0- 115.0	506.	293.8	102.	15.18
	99.	586.				112.	14.40
						118.	14.39
						126.	14.20
						138.	14.33
Station: 848E	0.	719.	0.0- 0.0	55.	235.3	3.	20.41
	2.	756.	0.0- 3.0	593.	250.7	5.	20.36
$38^0$48'0"	4.	738.	3.0- 5.0	582.	252.5	13.	19.54
$76^0$25'0"	6.	639.	5.0- 7.0	652.	255.6	21.	18.60
	8.	608.	7.0- 8.0	680.	259.3	29.	18.31
Cr: Sea Dog X	12.	487.	8.0- 10.0	610.	258.1	39.	17.28
	18.	491.	15.0- 18.0	587.	267.3	47.	16.87
9/VII/76	26.	665.	30.0- 33.0	628.	280.6	59.	16.51
	40.	665.	50.0- 52.0	639.	276.6	65.	16.43
	62.	626.	80.0- 84.0	634.	275.9	67.	16.46
	82.	602.	110.0- 115.0	643.	271.0	87.	16.28
	118.	654.				99.	15.07
						111.	14.66
						119.	14.62
Station: 914S	2.	100.	0.0- 0.0	30.	101.0	1.	24.41
	6.	412.	0.0- 2.0	190.	125.0	5.	24.24
$39^0$14'0"	10.	451.	2.0- 4.0	403.	134.3	11.	23.82
$76^0$16'0"	14.	433.	4.0- 6.5	448.	123.2	19.	23.40
	18.	300.	6.5- 8.0	410.	115.2	29.	22.59
Cr: Sea Dog XI	22.	287.	8.0- 9.5	442.	106.6	45.	21.45
	26.	307.	15.0- 17.5	298.	99.2	53.	20.98
10/VIII/76	30.	334.	25.0- 27.0	260.	117.6	65.	20.45
	38.	484.	45.0- 47.5	365.	138.6	71.	19.55
	46.	446.	70.0- 73.5	354.	128.1	73.	20.26
	54.	401.	95.0- 100.0	383.	118.3	93.	18.93

	DEPTH SYRINGE cm	SIO2 SYRINGE µm/L	DEPTH SQUEEZER cm	SLO2 SQUEEZER µm/L	CL SQUEEZER meq/L	DEPTH TEMP cm	TEMPERATURE ^0C
Station: 858C	2.	544.	0.0- 0.0	67.	314.0	0.	23.64
	4.	658.	0.0- 2.0	314.	314.6	5.	23.10
$38^0$57'43"	6.	724.	2.0- 4.0	615.	301.6	13.	22.19
$76^0$22'49"	8.	728.	4.0- 5.5	599.	284.9	21.	21.49
	10.	791.	5.5- 8.0	674.	272.5	31.	20.65
Cr: Sea Dog XI	14.	732.	8.0- 10.0	685.	258.3	39.	19.73
	20.	584.	15.0- 16.5	806.	260.1	47.	19.21
10/VIII/76	30.	674.	25.0- 28.0	611.	274.4	55.	18.78
	42.	795.	50.0- 52.0	767.	279.3	71.	16.98
	60.	611.	80.0- 82.5	587.	291.1	83.	16.47
	112.	541.	120.0- 124.0	548		91.	16.01
						103.	15.42
						111.	15.22
						123.	14.97
Station: 858C	2.	642.	0.0- 0.0	36.	288.5	0.	24.25
	4.	734.	0.0- 2.0	227.	280.3	6.	23.72
$38^0$57'43"	6.	682.	2.0- 5.5	653.	272.0	10.	23.40
$76^0$22'49"	8.	655.	5.5- 7.0	660.	267.9	18.	22.99
	10.	682.	7.0- 8.5	642.	264.9	20.	22.37
Cr: Sea Dog XII	14.	721.	8.5- 10.0	693.	259.6	34.	21.86
	20.	627	15.0- 17.5	675.	266.7	44.	21.30
9/IX/76	30.	429.	25.0- 27.0	444.	272.0	52.	20.91
	40.	736.	49.5- 53.0	695.	286.2	64.	20.16
	66.	616.	80.0- 83.0	519.	293.9	80.	18.97
	82.	559.	113.0- 118.0	570.	296.2	88.	18.35
	110.	583.				96.	17.94
						108.	18.17
						116.	17.92
						128.	17.18
Station: 848E	1.	422.	0.0- 0.0	27.	295.7	0.	24.88
	3.	611.	0.0- 2.0	422.	293.3	1.	24.31
$38^0$48'o"	5.	671.	2.0- 4.5	451.	287.4	9.	23.96
$76^0$25'0"	7.	679.	4.5- 6.0	556.	278.0	21.	23.40
	9.	679.	6.0- 8.0	581.	274.4	29.	22.97
Cr: Sea Dog XII	13.	701.	8.0- 9.5	589.	270.9	41.	22.56
	17.	714.	15.0- 17.0	668.	268.2	49.	22.33
9/IX/76	27.	743.	25.0- 28.0	695.	269.1	61.	21.72
	39.	761.	40.0- 43.0	734.	270.3	59.	21.54
	51.	754.	66.0- 69.0	728.	263.2	81.	20.91
	63.	787.	95.0- 100.0	734.	257.9		
	83.	791.					

MARYLAND GEOLOGICAL SURVEY

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Basic Data Reports

1. Records of wells and springs in Baltimore County, Maryland by C. P. Laughlin, 1966, 406 p. $6.00
2. Records of wells and springs, chemical analyses, and selected well logs in Charles County, Maryland, by T. H. Slaughter and C. P. Laughlin, 1966, 93p. $4.00
3. Hydrogeologic data from the Janes Island State Park test well (1,514 feet) Somerset County, Maryland, by H. J. Hansen, 1967, 24 p. $2.50
4. Southern Maryland — Records of selected wells, water levels, and chemical analyses, by J. M. Weigle and W.E. Webb, 1970, 48 p. AND, Water resources of southern Maryland, by J. M. Weigle, W. E. Webb, and R. A. Gardner, 1970, 3 atlas sheets $5.25
5. Deep wells of Maryland, by Jonathan Edwards, Jr., 1970, 162 p. $3.75
6. Worcester County ground-water information: well records, pumpage, chemical data, and selected well logs, compiled by Richard C. Lucas, 1972, 90 p. $3.00
7. Harford County ground-water information: well records, pumpage, and chemical quality data, compiled by L. J. Nutter and M. J. Smigaj, 1975, 89 p. $3.25
8. Anne Arundel County ground-water information: selected well records, chemical-quality data, pumpage, appropriation data, and selected well logs, compiled by R. C. Lucas, 1976, 149 p. $5.00
9. Interstitial water chemistry of Chesapeake Bay sediments, by O. P. Bricker, G. Matisoff, and G. R. Holdren, Jr., 1977, 67 p. $2.50

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