Programmed by

GREAT LAKES DIVISION

INLAND WATERS BRANCH

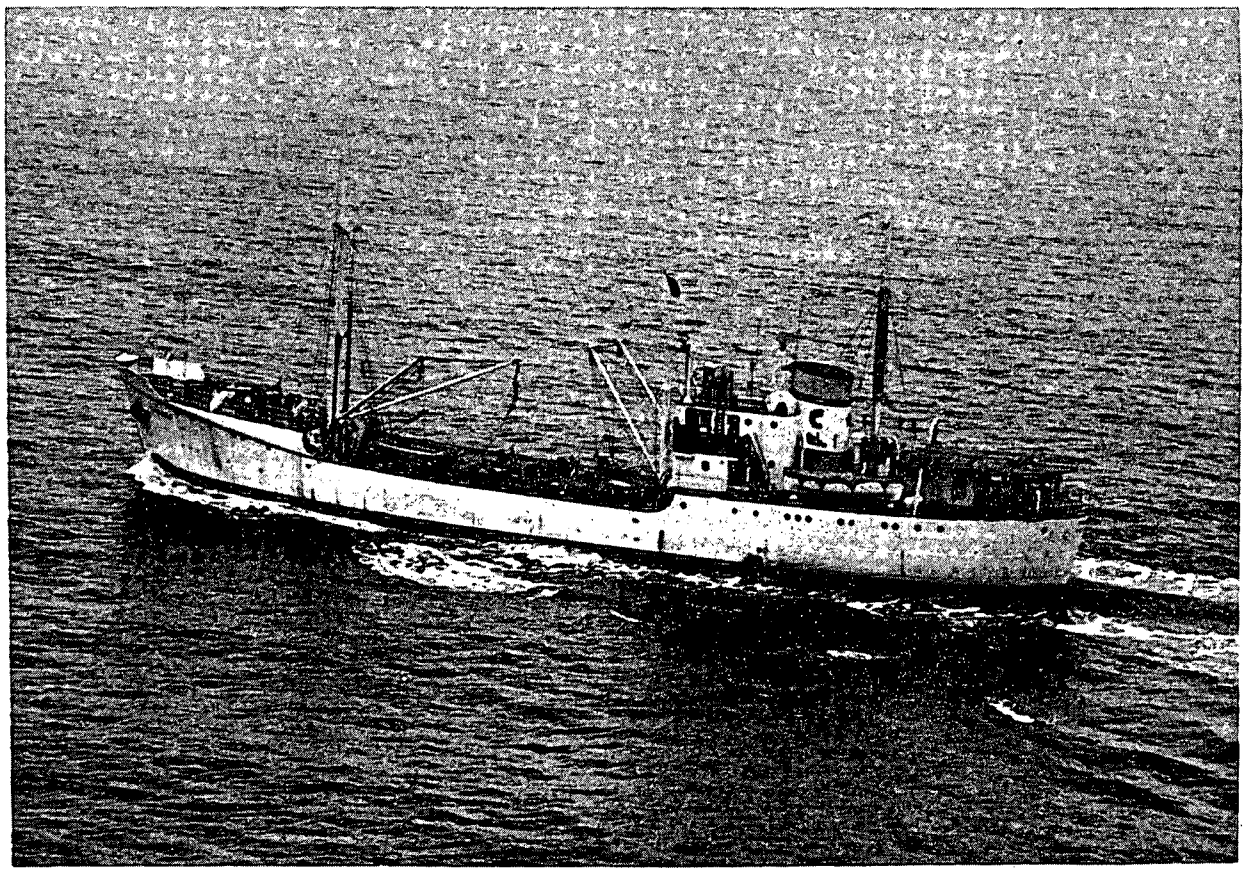
DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

CANADA



M.V. "Theron"

LIMNOLOGICAL DATA REPORT NO.4

LAKE ONTARIO

CRUISE 67 - 017, October 1 - 6

CRUISE 67 - 019, October 17 - 21

CRUISE 67 - 021, October 28 - November 2

1967

CANADA CENTRE FOR INLAND WATERS
BURLINGTON, ONTARIO

FOREWORD

This report contains limnological data gathered for research and monitoring purposes, primarily to provide data required in connection with the IJC reference on pollution of Lakes Erie and Ontario.

The agencies involved were:

Department of Energy, Mines and Resources
Department of National Health and Welfare

The joint reference of the Governments of Canada and the United States to the International Joint Commission was for information on the following questions:

(1) Are the waters of Lake Erie, Lake Ontario and the International Section of the St. Lawrence River being polluted on either side of the boundary to an extent which is causing or is likely to cause injury to health or property on the other side of the boundary?

(2) If the foregoing question is answered in the affirmative, to what extent, by what causes, and in what localities is such pollution taking place?

(3) If the Commission should find that pollution of the character just referred to is taking place, what remedial measures would, in its judgement, be most practicable from the economic, sanitary and other points of view and what would be the probable cost thereof?

These data have been made available to International Joint Commission agencies, federal and provincial, operating under the respective Boards: The International Lake Erie Water Pollution Board and the International Lake Ontario - St. Lawrence River Water Pollution Board.

In view of their interest to limnological research workers who are not formally charged with studies on behalf of the International Joint Commission, these data are distributed widely in this report. Because of difficulties in interpretation, anyone using these data in the preparation of a paper or report which draws conclusions pertaining to the three questions posed above, is requested by the IJC Pollution Reference Boards to discuss the data interpretation with the agencies concerned before publishing the report or paper. Such discussion can be arranged through the Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario.

In all other respects, the data are free to be used for scientific research and studies and should be acknowledged in accordance with the usual scientific practice.

INTRODUCTION

This report is one of a series listing chemical, bacteriological and physical data for waters of Lake Ontario, observed by Government of Canada agencies. Eleven cruises of Lake Ontario were carried out between June 12 and November 2, 1967.

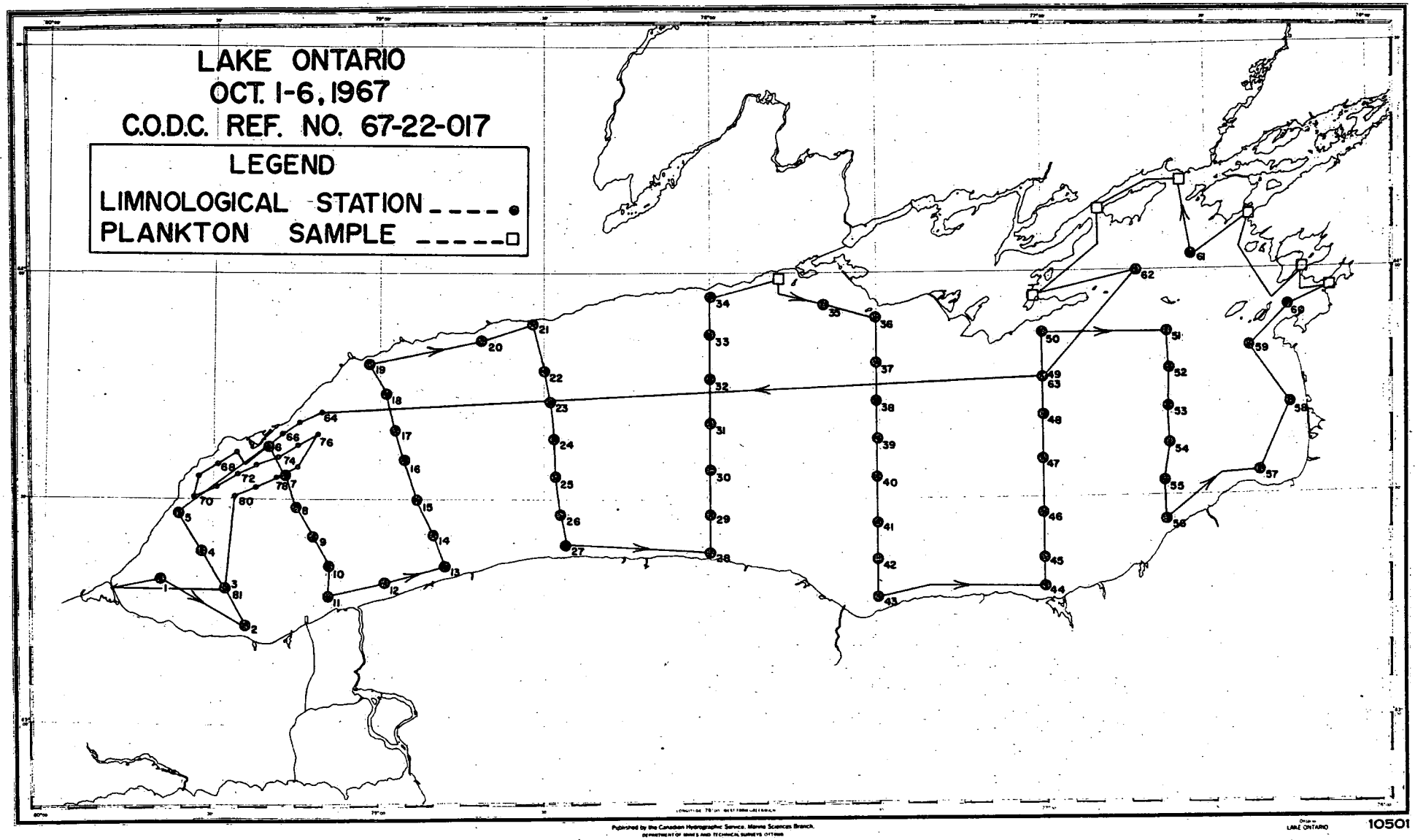
The 1967 surveys were carried out by the Great Lakes Division (Inland Waters Branch) and the Canadian Hydrographic Service (Marine Sciences Branch), both of which are Branches of the Department of Energy, Mines and Resources, and by the Public Health Engineering Division of the Department of National Health and Welfare. Staff from the three agencies carried out the work aboard the "Theron", chartered by the Department of Energy, Mines and Resources.

Water-quality data gathered during eleven monitor cruises in 1967 are contained in the present series. Not reported on are several cruises related to Physical, Geological and Seismic Surveys. Supplementary bathythermograph data and weather data are available on request from the Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario.

The Canadian Government's program developed in response to a request directed to the International Joint Commission by the Governments of Canada and the United States, that information relating to pollution of Lake Ontario, Lake Erie, and the international section of the St. Lawrence River be gathered. Preliminary listings of the data have already been made available to agencies preparing a report for the International Joint Commission.

The bacteriological data have already been published in Manuscript Report No. 67-20 of the Public Health Engineering Division, Department of National Health and Welfare. These data are again published in the present series of reports to facilitate comparison with the chemical and physical data.

Accompanying diagrams show the geographical locations of the observations listed in this data record, together with the vessel's track and the locations of bathythermograph lowerings.



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LAKE ONTARIO

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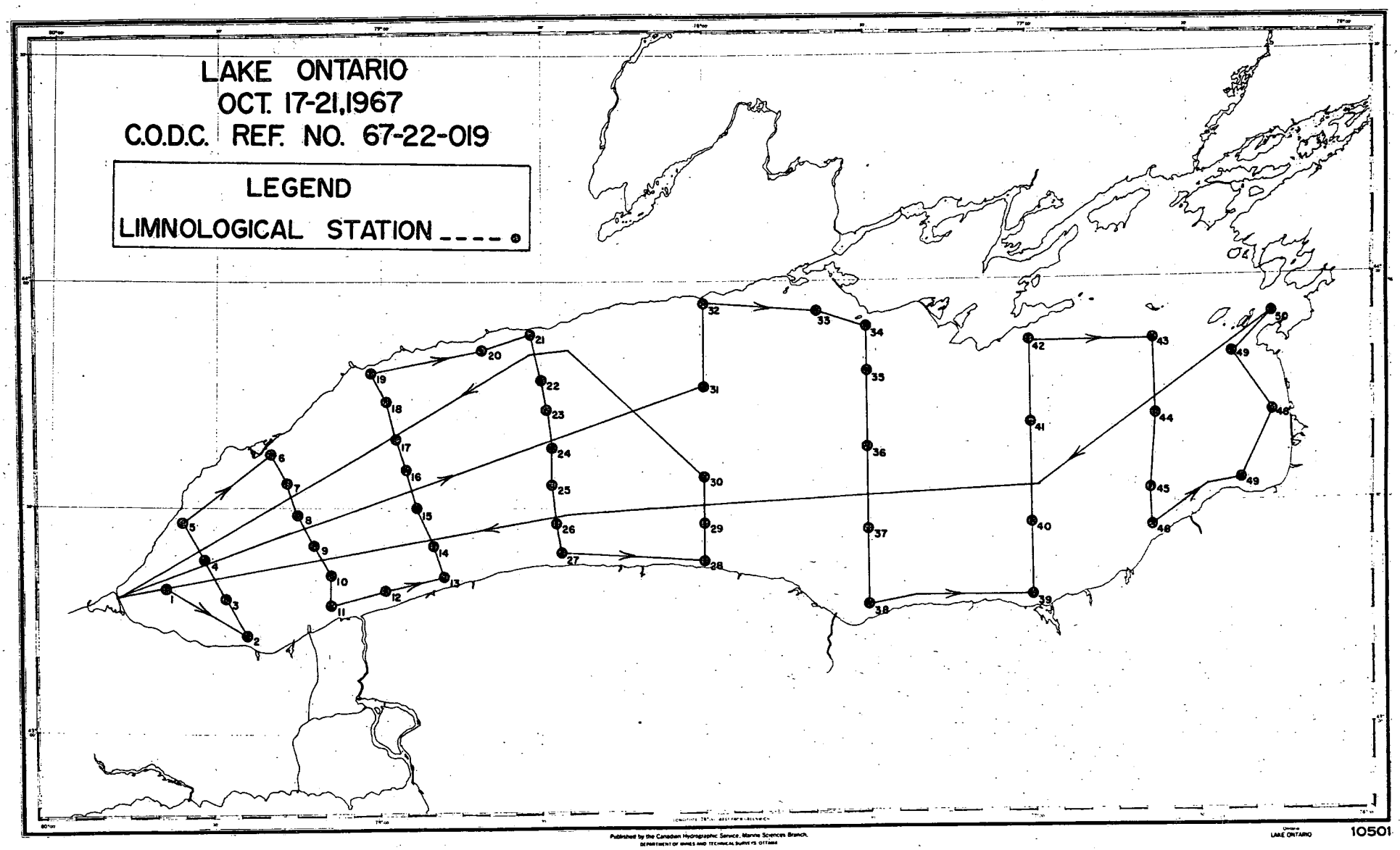

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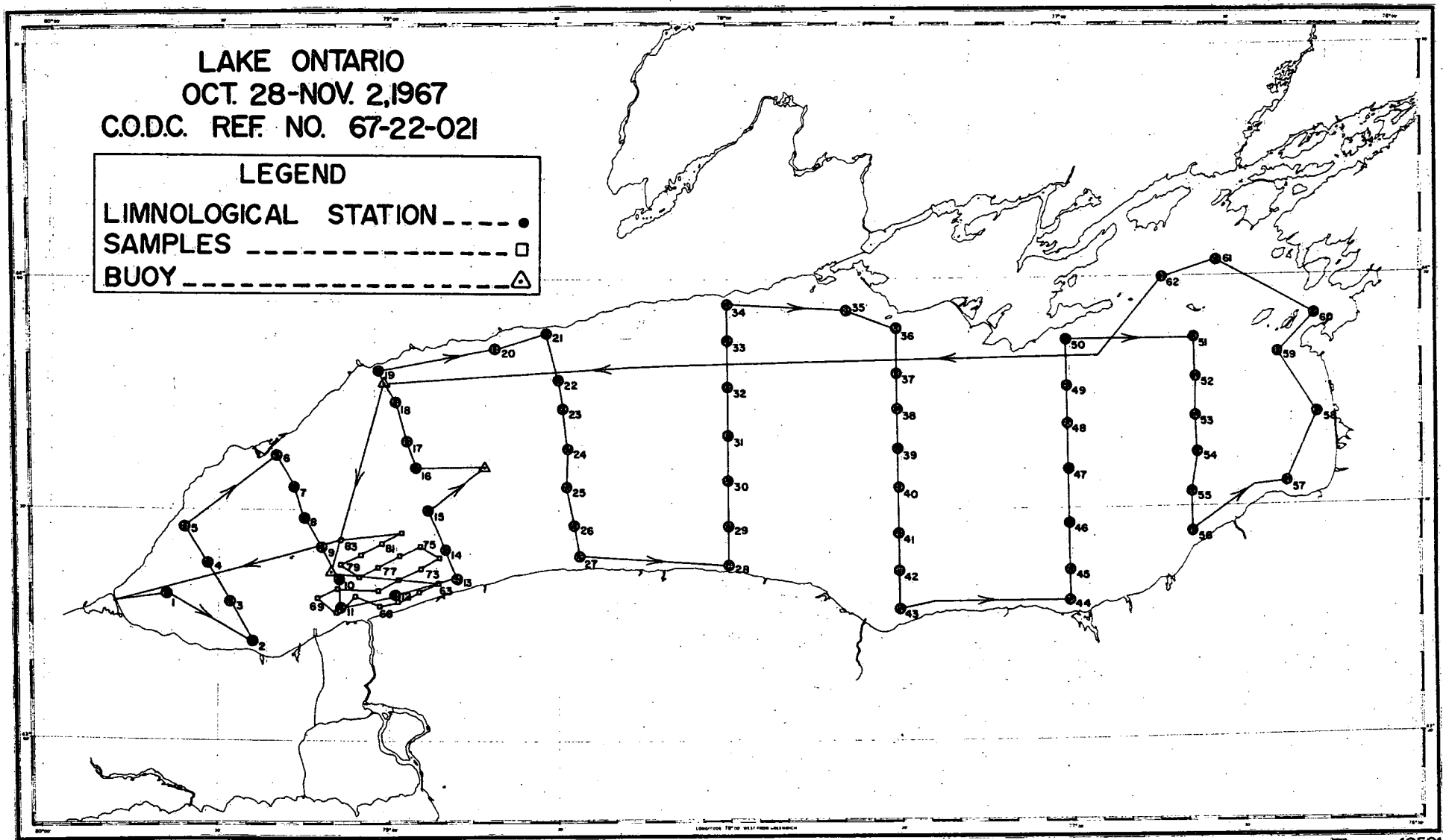

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10501

Summary of the cruises and data listed in Data Reports Numbers 1 to 4.

Data Report No.	1			2
Cruise No.	67-001	67-003	67-005	67-007
Dates (1967)	June 12 June 17	June 25 June 29	July 10 July 13	July 25 July 30
Cruise Type	Monitor	Monitor	Monitor	Monitor
Lake	Ontario	Ontario	Ontario	Ontario
Vessel	Theron	Theron	Theron	Theron
No. of Stations	73	73	62	86
No. of BT Slides	62	54	175	87
Station Data:				
Date/Time	X	X	X	X
Sounding	X	X	X	X
BT Slide No.	X	X	X	X
Sample Depth	X	X	X	X
Secchi Depth	X	X	X	X
Colour - Hazen Scale	X			
Temperature	X	X	X	X
Turbidity	X	X	X	X
Specific Conductance	X	X	X	X
Residue, filtrable	X	X	X	X
Residue, NF	X	X	X	X
PH 25°C	X	X	X	X
Alkalinity, total (titrimetric)	X	X	X	X
Alkalinity, total (colorimetric)	X	X	X	X
Biochemical Oxygen Demand	X	X		X
Oxygen, dissolved (Winkler)	X	X	X	
Oxygen, dissolved (Probe)	X			X
Phosphate, total				
Phosphate, reactive	X	X	X	X
Ammonia nitrogen, soluble	X	X	X	X
Nitrate nitrogen, NF	X	X	X	X
Nitrite nitrogen, NF	X	X	X	X
Nitrate nitrite nitrogen, NF				
Total Kjeldahl Nitrogen, NF	X	X	X	X
Organic Nitrogen, NF		X		X
Sulphate, NF	X	X	X	X
Chloride, NF	X	X	X	X
Silica, reactive	X	X	X	X
Hardness, total	X	X	X	X
Cadmium, NF	X	X	X	
Calcium, NF atomic absorption	X	X	X	X
Chromium, NF	X	X	X	
Cobalt, NF	X	X	X	
Copper, NF	X	X	X	
Iron, NF	X	X	X	
Lead, NF	X	X	X	
Lithium, NF	X	X	X	
Magnesium, NF	X	X	X	X
Manganese, NF	X	X	X	
Nickel, NF	X	X	X	
Potassium, NF photometric	X	X	X	X
Sodium, NF photometric	X	X	X	X
Strontium, NF atomic absorption	X	X	X	
Zinc, NF	X	X	X	
Phenolic Compounds	X	X	X	X
Chlorophyll A	X	X	X	X
MF Coliforms	X	X		X
MF fecal coliform	X	X		X
MF fecal streptococci	X	X		X
Standard plate count at 20°C	X	X		X
Standard plate count at 35°C	X	X		X

NF - Non filtered.

(An "X" indicates that the parameter is reported for one or more stations in that cruise).

2	3			4		
67-009	67-011	67-013	67-015	67-017	67-019	67-021
August 5 August 10	August 21 August 25	Sept. 5 Sept. 9	Sept. 16 Sept. 21	Oct. 1 Oct. 6	Oct. 17 Oct. 21	Oct. 28 Nov. 2
Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Ontario	Ontario	Ontario	Ontario	Ontario	Ontario	Ontario
Theron	Theron	Theron	Theron	Theron	Theron	Theron
81	78	75	91	81	50	83
81	78	75	91	81	50	83

X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X		X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X		X	X	X	X
X	X	X	X			
X	X		X			X
	X	X	X	X	X	X
X	X					
			X	X	X	X
X	X	X		X	X	X
X	X		X	X	X	X
X	X	X	X		X	X
X		X	X	X	X	X
		X	X		X	X
X	X	X	X	X	X	X
X			X	X	X	X
X	X		X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X			
X		X		X		X
X	X		X	X	X	X
X		X		X		X
X		X		X		X
X		X		X		X
X		X		X		X
X		X		X		X
X		X		X		X
X	X		X	X	X	X
X		X		X		X
X		X		X		X
X	X		X	X	X	X
X	X		X	X	X	X
X		X		X		X
X		X		X		X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X		X	X	X	X
X	X		X	X	X	X
X	X		X	X	X	X
X	X		X	X	X	X
X	X		X	X	X	X

Description of the Data Record

Information in the headings for each station:

1. C-REF-No.	5. LAT.	7. YEAR	11. No. DEPTHS
2. CONS. No.	6. LON.	8. MONTH	12. SOUNDING
3. COUNTRY		9. DAY	13. BT SLIDE No.
4. INSTITUTE		10. TIME	

Explanations:

(1) Cruise number: the 1967 cruises are numbered in the series from 001 to 021, the first digit (0) having been assigned to all Lake Ontario cruises.

(2) Consecutive station number: the stations within each cruise are numbered in chronological order.

(4) Institute: For filing purposes, the institute code was 22 (Inland Waters Branch, Department of Energy, Mines and Resources).

(5) and (6) indicate the latitude and longitude of the vessel, in degrees, minutes and seconds, at the time of the observations.

(7), (8) and (9) indicate the date of the observations according to Greenwich Mean Time.

(10) Indicates the messenger time in hours and minutes (Greenwich Mean Time) for the first bottle cast at the station. The hours of each day are numbered from 00 to 23.

(11) The number of depths at which observations were made. This should correspond to the number of depths actually listed. The count is listed to reveal omissions due to the loss of punch-cards.

(12) The sounding is listed in meters, to the nearest tenth of a meter.

(13) Indicates the bathythermograph slide number corresponding to the particular station. The slides are numbered consecutively within each cruise.

EXPLANATION OF THE DATA LISTING FOR EACH STATION

Parameter Name	Abbreviation (column heading)	Units used in the Data Reports	No. of Decimals printed	Star System Code
Sample Depth	DEPTH	METERS	1	001
Secchi Depth	SECCHI	METERS	1	030
Temperature	TEMP.	°C	2	100
Turbidity	TURB.	Turb. Units	1	123
Specific Conductance	SP. COND	Micromhos	0	160
Residue, filtrable	F. RES	mg/L	1	201
Residue, NF	NF RES	mg/L	1	202
PH 25°C	PH 25	pH units	3	215
Alkalinity, total (titrimetric)	TT ALK	mg $CaCO_3$/L	1	219
Alkalinity, total (colorimetric)	TC ALK	mg $CaCO_3$/L	1	220
Biochemical Oxygen Demand (Winkler)	BOD W	mg C/L	1	239
Biochemical Oxygen Demand (Probe)	BOD P	mg C/L	1	240
Oxygen, dissolved (Winkler)	02 W	mg O_2/L	2	245
Oxygen, dissolved (Probe)	D 02 P	mg O_2/L	2	246
Phosphate, total	T PO4	mg PO_4/L	3	260
Phosphate, reactive	R PO4	mg PO_4/L	3	262
Ammonia nitrogen, soluble	NH3	mg N/L	3	270
Nitrate nitrogen, NF	NO3NF	mg N/L	3	271
Nitrite nitrogen, NF	NO2 NF	mg N/L	3	273
Nitrate nitrite nitrogen, NF	T NO3	mg N/L	3	275
Total Kjeldahl Nitrogen, NF	T KJN	mg N/L	3	277
Organic Nitrogen, NF	ORG N	mg N/L	3	278
Sulphate, NF	S SO4	mg SO_4/L	1	280
Chloride, NF	CL	mg Cl/L	1	290
Silica, reactive	R SIO2	mg SIO_2/L	3	295
Hardness, total	HARD	mg $CaCO_3$/L	1	300
Cadmium, NF	CD NF	mg metal/L	3	320
Calcium, NF atomic absorption	CA NFA	mg metal/L	3	324
Chromium, NF	CR NF	mg metal/L	3	328
Cobalt, NF	CO NF	mg metal/L	3	332
Copper, NF	CU NF	mg metal/L	3	336
Iron, NF	FE NF	mg metal/L	3	340
Lead, NF	PB NF	mg metal/L	3	346
Lithium, NF	LI NF	mg metal/L	3	350
Magnesium, NF	MG NF	mg metal/L	3	354
Manganese, NF	MN NF	mg metal/L	3	358
Nickel, NF	NI NF	mg metal/L	3	366
Potassium, NF photometric	K NFS	mg metal/L	3	372
Sodium, NF photometric	NA NFS	mg metal/L	3	388
Strontium, NF atomic absorption	SR NFA	mg metal/L	3	390
Zinc, NF	ZN NF	mg metal/L	3	398
Phenolic Compounds	PHEN	mg C_6H_5OH/L	3	410
Chlorophyll A	CHLORA	mgs/m^3	2	610
MF Coliforms	MF COL	col/100 ml	*	700
MF fecal coliform	MF FCO	col/100 ml	*	703
MF fecal streptococci	MF STR	col/100 ml	*	706
Standard plate count at 20°C	SPC 20	col/ml	*	720
Standard plate count at 35°C	SPC 35	col/ml	*	721

* Exponential notation. NF - Non filtered.

Note: The four bacteriological parameters are listed in exponential form:

$130E02 = 1.30 \times 10^2 = 130.$
$100E00 = 1.00 \times 10^0 = 1.$
$000E00 = 0.00 \times 10^0 = 0.$

Note: For some parameters, the analytical methods listed in the Star System Manual (REF 12) are not the methods used for Data Reports.

Methods of Sampling and Measurement

Water sampling was carried out on the port side of the vessel, amidships, where a davit and a "chains" platform were installed. A small wooden deckhouse provided shelter for reading the thermometers and for transferring water from the primary sampling devices to small bottles which were taken to the shipboard laboratory. The sampling procedure together with photographs of the equipment are published in Manuscript Report No. 67-1 of the Public Health Division, Department of National Health and Welfare.

Samples were collected at standard depths of 1, 10, 20, 30, 50, 75, 100, 150 and 200 meters, where the depth of water permitted. The water sampling devices were metal Knudsen bottles with a capacity of 1.2 liters, and polyvinylchloride Van Dorn bottles with capacities of 2 and 3 liters. Oceanographic reversing thermometers, and rubber bulbs for bacteriological sampling, were mounted on the Knudsen bottles.

For bacteriological sampling, a sterile deflated pear-shaped rubber bulb was attached to a Knudsen bottle. A brass plug in the opening of the rubber bulb was pulled out by the reversing Knudsen bottle. (REF 14, pp. 88-90).

Position (Latitude and longitude) was determined using radar ranges and bearings on identifiable shoreline features. Occasionally, dead-reckoning had to be used when the vessel was far from shore.

Sounding The depth of water at each station was measured with the ship's echo sounder. Corrections for the transducer depth have been applied.

Secchi depth is the depth of disappearance of a white disc, 30 centimeters in diameter, when it is lowered slowly into the water.

Colour Hazen Scale (British Drug House Lolibond Nesslerizer) with Hazen colour discs.

Sample depth The length of wire was measured with a meter wheel, using the water surface as the reference level. Wire-angle corrections were applied whenever depths were one meter or more.

Temperature Oceanographic reversing thermometers manufactured by Yoshino Keiko Co. of Japan were lowered in a series to all the required depths, and were turned over after five minutes. Later, each thermometer was read twice in the vessel's deckhouse. Scale corrections and thermal-expansion corrections were applied to the readings. There were usually two thermometers on each Knudsen bottle. A single mean temperature value is reported in this final data record, but the individual readings are kept on file at the Canada Centre for Inland Waters. The difference between readings of paired thermometers was usually less than 0.05°C. (REF 32).

Additional temperature measurements were made with bathythermographs, and with a thermistor thermometer towed at a depth of one meter while the ship was underway. The BT and thermistor data are available on request from the Canada Centre for Inland Waters.

Turbidity Hach Turbidimeter, Model 1860 (REF. 13).

Specific conductance 25°C Radiometer Conductivity Meter Type CDM2 (REFS 2, 20).

Nonfiltrable residue A 2 liter sample is filtered through a washed pre-weighed 4.25 cm Whatman GF/C glass fiber filter disc.

Filtrable residue (Total dissolved solids) Gravimetric (REF. 2).

pH, 25°C Corning pH meter, Model 10 (REFS 2, 9).

Titrimetric alkalinity Potentiometric Titration (REF 29).

Colorimetric alkalinity The sample is added to a methyl orange indicator solution buffered at a pH of 3.1. Alkalinity present in the sample causes small changes in the pH of the buffer, which in turn causes a corresponding reduction in colour of the methyl orange indicator (REF 26).

B.O.D. (Biochemical oxygen demand) Air is bubbled through a diffusion tube into the sample for 5-10 minutes. On one portion of the aerated sample the D.O. is determined; another portion unseeded and undiluted is incubated at 20°C for the B.O.D. determinations (REF 2).

Dissolved oxygen (Winkler) Azide modification of the Iodometric Method (REF 2, pp. 406-410).

Dissolved Oxygen (Probe) Weston & Stack Oxygen Analyzer, Model 300 with B.O.D. Agitator (REF 31).

Total phosphate Samples and standards are digested manually with sulphuric acid and potassium persulfate.

After neutralization, samples and standards are analyzed on the AutoAnalyzer as outlined in the reactive phosphate method (REFS 7, 15, 25).

Reactive phosphate is determined by the formation of the phosphomolybdate complex by treating the sample with ammonium molybdate and sulphuric acid. Ascorbic acid is used to reduce the complex to "molybdenum blue" (REFS 7, 25).

Soluble ammonia nitrogen The ammonia present in the sample, reacting with phenol and hypochlorite in an alkaline medium, yields an intense blue colour believed to be related to indophenol. The addition of sodium nitro-prusside catalyzes the reaction and increases the sensitivity (REF 33).

Nitrate nitrogen The sample is mixed with an EDTA solution of pH 6.5-7.0 and passed through a coil containing cadmium filings where the nitrate present in the sample is reduced to nitrite.

The resultant nitrite, which is formed in a 85-95% yield, is determined by Bendschneider and Robinson's method (REFS 4, 5).

Nitrite nitrogen Nitrite reacts with sulphanilamide to form a diazo compound. Further reaction with N-(1-Naphthyl)-ethylene-diamine Dihydrochloride produces an azo dye which absorbs in the 520-550 mu light range (REF 4).

Kjeldahl nitrogen The Kjeldahl method, using selenious acid as a catalyst, converts organically bound nitrogen to ammonia by digestion with sulphuric acid to which perchloric acid has been added. The ammonia, reacting with phenol and hypochlorite in an alkaline medium, yields an intense blue colour believed to be related to indophenol. The addition of sodium nitroprusside catalyzes the reaction and increases the sensitivity (REF 22).

Organic nitrogen NF computed from NH3 and TKJ N determinations.

Sulphate NF Titrimetric, barium chloride, Thorin indicator (REFS 3, 10).

Chloride NF AutoAnalyzer, colorimetric, mercury thiocyanate (REF 23).

Reactive silica AutoAnalyzer, colorimetric heteropoly blue (REFS 2, 28).

Total hardness is determined by the use of 1-(1-hydroxy-4-methyl-2-phenylazo)-2-naphthol-4-sulfonic acid (Calmagite), in conjunction with disodium magnesium ethylenediamine tetra-acetate, at a pH of 10.1 to give a red-violet complex (REF 24).

Cadmium NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Calcium NF Atomic absorption spectrophotometry (REF 19).

Chromium NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Cobalt NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Copper NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Iron NF This determination of total iron is based upon the complexing of ferrous iron with 2,4,6-tripyridyl-s-triazine giving an intense violet colour. Hydroxylamine hydrochloride is used to reduce any ferric iron to the ferrous stage (REF 8).

Lead NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Lithium NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Magnesium NF Atomic absorption spectrophotometry (REF 19).

Manganese NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Nickel NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Potassium NF AutoAnalyzer, flame emission photometry (REF 27).

NF - Non filtered.

Sodium NF AutoAnalyzer, flame emission photometry (REF 27).

Strontium NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Zinc NF Atomic absorption spectrophotometry (REFS 1, 6, 17, 19, 21, 30).

Phenol Aminoantipyrene-potassium ferricyanide colorimetric finish (REF 2, pp. 516-520).

Chloraphyll A (REFS 16, 18).

BACTERIOLOGICAL PARAMETERS

Storage conditions for bacteriological samples The analysis began within one or two hours after sampling, except for samples collected between midnight and 6.30 a.m. The night samples were stored at temperatures varying between 4 and 7°C for a maximum of 8 hours before their analyses commenced.

Coliform density determinations were obtained by membrane filtration techniques using Bacto-m-Endo MF Broth. Membranes were incubated at 35°C for 20 ± 2 hours in an atmosphere of saturated humidity. Coliform, densities were recorded in terms of coliforms per 100 ml of water sample, (REF 2, p. 615).

Fecal coliform density determinations were obtained by membrane filtration techniques using Bacto-m FC Broth. Membranes were incubated in a 44.5°C waterbath for 24 ± 2 hours. Fecal coliform densities were recorded in terms of fecal coliform per 100 ml of water sample (REF 11).

Fecal streptococcus density determinations were obtained by membrane filtration techniques using Bacto-m Enterococcus Agar. Membranes were incubated at 35°C for 48 hours in an atmosphere of saturated humidity. Counts were calculated and recorded in terms of fecal streptococci (maroon and pink colonies) per 100 ml of water (REF 2, p. 619).

Standard plate counts The American Public Health Association Standard Methods (REF 2, p. 592), Standard Plate Count procedure was used for the estimation of total bacterial (viable) numbers at 35°C and 20°C. Bacto-Plate Count Agar was the medium used. Total viable counts were read at 24 ± 2 hours for plates incubated at 35°C and 48 ± 3 hours for plates incubated at 20°C. Counts were calculated and recorded as Standard Plate Counts per ml of water at the specified temperature.

Personnel Great Lakes Division (GLD), Water Quality Division (WQD), Canadian Hydrographic Survey (CHS) and Geological Survey of Canada (GSC), Department of Energy, Mines and Resources; Public Health Engineering Division (PHED), Department of National Health and Welfare; Fisheries Research Board (FRB).

NF - Non filtered.

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Other Participating Agencies

The Canadian Oceanographic Data Centre produced and distributed the preliminary data records, and published final reports in the present series.

The Meteorological Branch of the Department of Transport provided meteorological instruments, and trained the personnel who carried out the weather observations.

Captain H. Maro and the crew of the "Theron" operated the vessel in support of the limnological program.

References

1. Allan, J.E. 1961. The Use of Organic Solvents in Atomic Absorption Spectrophotometry. Spectrochim. Acta: pp. 467-473.

2. American Public Health Association. 1965. Standard Methods for the Examination of Water and Wastewater. Twelfth Ed. American Public Health Association, New York.

3. American Society for Testing and Materials. 1966. Book of ASTM Standards Part 23: Industrial Water; Atmospheric Analysis. American Society for Testing and Materials, Philadelphia.

4. Bendschneider, K. and R.J. Robinson. 1952. A New Spectrophotometric Method for the Determination of Nitrite in Sea Water. J. Mar. Res., 11, pp. 87-96.

5. Brewer, P.G. and J.P. Riley. 1965. The Automatic Determination of Nitrate in Sea Water. Deep Sea Research, vol. 12: pp. 765-772.

6. Brooks, R.R., B.J. Presley and T.R. Kaplan. 1967. Determination of Copper in Saline Waters by Atomic Absorption Spectrophotometry with APDC-MIBK Extraction. Anal. Chim. Acta, 38: pp. 321-326.

7. Chan K.M. and J.P. Riley. 1966. The Automatic Determination of Phosphate in Sea Water. Deep Sea Research, 1966, vol. 13, pp. 467-471.

8. Collins P. and H. Diehl. 1959. Tripyridyl-s-Triazine. A reagent for the determination of Iron in Sea Water. Journal of Marine Research, vol. 18, 1959.

9. Corning Scientific Instruments. 1965. Expanded-Scale pH meter. Corning Glass Works, Corning, N.Y.

10. Fritz, J.S. and S.S. Yamamura. 1955. Rapid Microtitration of Sulfate. Analytical Chemistry, vol. 27, no. 9, p. 1461.

11. Geldreich, E.G., H.F. Clark and P.W. Kabler. 1965. A Fecal Coliform Media for the Membrane Filter Techniques. JAWWA, 57: 208.

12. Glennie, C.J. and T.M. MacLeod. 1967. The Star system for storage and retrieval of scientific data. Canadian Oceanographic Data Centre, Ottawa.

13. Hach Chemical Company. Laboratory Turbidimeter Model 1860. Hach Chemical Company, Ames, Iowa.

14. I.J.C. agencies. 1966. Working Committee on Methodology. A digest of analytical methods employed by laboratories associated with International Joint Commission Research on the Great Lakes. 135 pp.

15. Julian, E.C. and R.C. Kroner. Determination of Organic Nitrogen in Water by Semi-Automated Analysis (Communication).

16. Lorenzen, Carl J. 1966. A method for the continuous measurement of in vivo chlorophyll concentrations. Deep-Sea Research, vol. 13, pp. 223 and 227.

17. Mulford, E.C. 1966. Solvent Extraction Technique for Atomic Absorption Spectroscopy. Atomic Absorption Newsletter 5 (4): pp. 88-90.

18. Parsons, T.R. and J.D.H. Strickland. 1963. Discussion of Spectrophotometric Determination of Marine-plant Pigments, with Revised Equations for Ascertaining Chlorophylls and Carotenoids. Journal of Marine Research, 21 (3).

19. Perkin-Elmer Corp. 1966. Analytical Methods for Atomic Absorption Spectrophotometry. Perkin-Elmer Corp., Norwalk, Connecticut.

20. Radiometer Copenhagen. Direct Reading Conductivity Meter Type CDM2. Radiometer Copenhagen, Denmark.

21. Sprague, S. and W. Slavin. 1964. Determination of Very Small Amounts of Copper and Lead in KCl by Organic Extraction and Atomic Absorption Spectrophotometry. Perkin-Elmer Atomic Absorption Newsletter No. 20, May.

22. Technicon AutoAnalyzer Methodology, Kjeldahl Nitrogen (Micro Level) Bulletin N-3C.

23. Technicon AutoAnalyzer Methodology, Bulletin C2a, Chloride 11a, 1960.

24. Technicon AutoAnalyzer Methodology, Bulletin H2, Hardness IIIG (Water Analysis), 1960.

25. Technicon AutoAnalyzer Methodology, Inorganic Phosphate, N Method N 4b, 1965.

26. Technicon AutoAnalyzer Methodology, Methyl Orange and Phenolphthalein - M & P Alkalinity, 1961.

27. Technicon Instruments Corp. 1967. Instruction Manual FPH-111. Technicon Instruments Corp., Ardsley, New York.

28. Technicon Instruments Corp. 1960. AutoAnalyzer Methodology Silica, 11F (Water Analysis).

29. Thomas, J.F.J. and J.J. Lynch. 1960. Determination of Carbonate Alkalinity in Natural Waters. JAWWA, 52: pp. 259-268.

30. Walsh, A. 1955. The Application of Atomic Absorption Spectra to Chemical Analysis. Spectrochim. Acta 7, 108.

31. Weston & Stack Inc. Manufacturers Manual, 1426 Lewis Lane, West Chester, Pa.

32. U.S. Hydrographic Office. 1955. Publ. No. 607. Instruction Manual for Oceanographic Observations. Second Edition, 211 pp.

33. Van Slyke & Hiller, J. Biol. Chem. 102, 499, (1933). Borsook, J. Biol. Chem. 110, 481, (1935). Russel, J. Biol. Chem. 156, 457, (1944). Technicon AutoAnalyzer Methodology, Bulletin A4a, Ammonia Vb, (1960).

CRUISE 67 - 017, October 1 - 6

C-REF-NO 017
CONS. NO 001
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 079-39-00W

YEAR 1967
MONTH 10
DAY 01
TIME 1413

NO. DEPTHS 06
SOUNDING 0540
BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	12.90	0.7	296	1.0	8.150	9.67	0.030
10.0		12.87	0.7	293		8.190	9.83	
20.0		7.49	0.7	304		7.950	8.71	
30.0		4.90	1.0	303		7.890	10.29	
50.0		4.13	1.3	301	1.4	7.930	10.76	0.060
52.0		4.13	1.1	293	1.5	7.940	10.82	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.045	0.010	0.360	0.315	28.0	0.360	
10.0	0.006	0.090	0.010			28.0	0.390	
20.0	0.012	0.164	0.003			27.9	0.480	
30.0	0.016	0.220	0.003			27.7	0.560	
50.0	0.060	0.060	0.003	0.225	0.165	27.9	0.920	
52.0	0.034	0.045	0.003	0.220	0.175	28.0	0.920	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.82	000E00	000E00	000E00	300E01	120E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
52.0		000E00	000E00	200E00	380E01	230E01

C-REF-NO 017
CONS. NO 002
COUNTRY 18
INSTITUTE 22

LAT 43-13-00N
LON 079-24-00W

YEAR 1967
MONTH 10
DAY 01
TIME 1545

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	14.38	1.3	311	1.2	8.190	9.50	0.050
10.0		14.30	1.1	312		8.200	9.48	
17.0		14.04	1.8	311	1.1	8.210	9.32	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.014	0.070	0.008	0.300	0.230	28.7	0.260	
10.0	0.008	0.085	0.008			28.8	0.245	
17.0	0.010	0.080	0.008	0.275	0.195	28.9	0.290	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.77					
10.0						
17.0						

C-REF-NO 017
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 079-28-00W

YEAR 1967
MONTH 10
DAY 01
TIME 1743

NO. DEPTHS 17
SOUNDING 0830
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	12.52	0.9	302	1.0	8.220	9.97	0.030
4.0		12.54	1.1	305		8.180	10.12	0.035
7.0		12.29	1.0	303		8.250	10.28	
10.0		11.96	1.0	311		8.240	10.20	
13.0		11.85	0.9	315		8.240	9.95	
16.0		11.84	0.9	314		8.200	9.92	
19.0		9.13	0.7	318		8.080	9.85	
22.0		5.34	0.6	314		7.900	10.08	
25.0		4.58	0.6	313		7.910	11.30	
28.0		4.21	0.6	310		7.960	11.50	
30.0		4.37	0.5	312		7.860	10.80	
33.0		4.28	0.6	298		7.900	11.27	
36.0		4.27	0.6	318		7.910	11.25	
39.0		4.21	0.8	324		7.910	11.45	
49.0		4.11	0.6	327		7.930	11.57	
73.0		3.91	0.8	329		7.930	10.90	
79.0		3.94		329	1.1	7.920	10.84	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.040	0.009	0.300	0.260	29.4	0.280	
4.0	0.006	0.036	0.009	0.300	0.264	29.3	0.275	
7.0	0.004	0.038	0.009	0.290	0.252	29.4	0.295	
10.0	0.006	0.036	0.009	0.325	0.289	29.5	0.310	
13.0	0.010	0.064	0.009	0.285	0.221	29.6	0.325	
16.0	0.010	0.068	0.009	0.250	0.182	29.7	0.330	
19.0	0.010	0.056	0.008	0.260	0.204	29.4	0.370	
22.0	0.008	0.066	0.009	0.235	0.169	29.2	0.380	
25.0	0.012	0.048	0.004	0.250	0.202	28.9	0.410	
28.0	0.016	0.052	0.002	0.375	0.323	29.0	0.430	
30.0	0.010	0.046	0.005			28.8	0.325	
33.0	0.016	0.036	0.002	0.210	0.174	28.6	0.390	
36.0	0.012	0.040	0.003	0.200	0.160	28.7	0.390	
39.0	0.012	0.088	0.003	0.225	0.137	28.7	0.390	
49.0	0.020	0.050	0.003	0.210	0.160	28.7	0.460	
73.0	0.040	0.046	0.003	0.220	0.174	29.0	1.055	
79.0	0.076	0.040	0.012	0.250	0.210	30.4	1.200	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.94	300E00		000E00	200E01	120E01
4.0						
7.0						
10.0		300E00				
13.0						
16.0						
19.0						
22.0						
25.0						
28.0						
30.0						
33.0						
36.0						
39.0						
49.0		500E00				
73.0						
79.0		200E00		000E00	800E00	300E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	205.0	93.7	27.0	40.800	7.900	1.400	12.600
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
30.0							
33.0							
36.0							
39.0							
49.0	200.0	94.7	26.9	41.600	7.900	1.300	12.000
73.0							
79.0	202.0	97.6	26.6	42.400	7.900	1.400	12.200

DEPTH	CDNF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.010	0.022	0.001	0.001	0.005
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
30.0								
33.0								
36.0								
39.0								
49.0	0.000	0.000	0.000	0.002	0.012	0.004	0.002	0.005
73.0								
79.0	0.000	0.000	0.000	0.015	0.037	0.003	0.002	0.002

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.001	0.180	0.000
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
30.0			
33.0			
36.0			
39.0			
49.0	0.001	0.190	0.002
73.0			
79.0	0.001	0.168	0.015

C-REF-NO 017
CONS. NO 004
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 079-32-00W

YEAR 1967
MONTH 10
DAY 01
TIME 1947

NO. DEPTHS 07
SOUNDING 0920
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	8.89	0.5	311		7.570	10.50	
10.0		8.37	0.6	321		7.570	10.31	
20.0		7.20	0.8	320		7.560	10.13	
30.0		6.13	0.8	319		7.560	10.20	
50.0		4.26	1.1	319		7.560	10.46	
75.0		4.23	1.1	321		7.550	10.35	
90.0		4.25	2.6	316		7.550	10.58	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.030	0.009	0.325	0.295	25.6	0.445	
10.0	0.020	0.040	0.008			27.5	0.470	
20.0	0.022	0.040	0.007			27.5	0.520	
30.0	0.026	0.030	0.006			27.4	0.600	
50.0	0.034	0.034	0.003	0.275	0.241	27.4	0.800	
75.0	0.036	0.034	0.003			27.4	0.840	
90.0	0.040	0.050	0.005	0.300	0.250	27.7	0.935	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.71	200E00			530E02	300E01
10.0		500E00				
20.0						
30.0						
50.0		200E00				
75.0						
90.0		200E00		000E00	120E02	440E01

C-REF-NO 017
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 079-36-00W

YEAR 1967
MONTH 10
DAY 01
TIME 2042

NO. DEPTHS 04
SOUNDING 0280
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	7.89	0.9	316	1.6	7.570	10.39	
10.0		7.16	0.7	318		7.570	10.20	
20.0		6.10	0.8	318		7.560	10.38	
26.0		5.88	0.9	318	1.5	7.560	10.18	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.030	0.050	0.011	0.150	0.100	27.8	0.545	
10.0	0.028	0.054	0.011			27.8	0.520	
20.0	0.031	0.178	0.010			27.6	0.600	
26.0	0.036	0.100	0.010	0.225	0.125	27.7	0.615	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.43					
10.0						
20.0						
26.0						

C-REF-NO 017
CONS. NO 006
COUNTRY 18
INSTITUTE 22

LAT 43-37-00N
LON 079-20-00W

YEAR 1967
MONTH 10
DAY 01
TIME 2229

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	1.0	7.53	3.6	312		8.090	10.96	
10.0		5.86	0.6	319		8.110	11.19	
12.0		5.84	0.5	317		8.110	11.18	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.110	0.240	0.016	0.400	0.160	29.5	0.710	
10.0	0.021	0.040	0.004			27.6	0.600	
12.0	0.022	0.090	0.004	0.225	0.135	27.6	0.595	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.66					
10.0						
12.0						

C-REF-NO 017
CONS. NO 007
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 079-17-00W

YEAR 1967
MONTH 10
DAY 01
TIME 2319

NO. DEPTHS 08
SOUNDING 1070
BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		6.82	0.4	312		8.160	11.30	
10.0		6.76	0.4	312		8.160	11.32	
20.0		5.15	0.3	312		8.140	11.45	
30.0		4.76	0.3	311		8.120	11.50	
50.0		4.60	0.3	310		8.120	11.50	
75.0		4.06	0.4	310		8.100	11.73	
100.0		4.00	1.2	315		8.100	11.75	
105.0		3.97		315		8.080		

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.020	0.020	0.005	0.225	0.205	27.4	0.500	0.001
10.0	0.016	0.050	0.005			27.4	0.495	
20.0	0.016	0.068	0.003			27.2	0.465	
30.0	0.018	0.034	0.003			27.2	0.460	
50.0	0.020	0.030	0.002	0.225	0.195	27.2	0.460	
75.0	0.026	0.050	0.002			27.2	0.700	
100.0	0.027	0.026	0.002	0.200	0.174	27.1	0.750	
105.0	0.087	0.040		0.250	0.210	32.6	1.180	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.60	100E00		000E00	640E02	840E01
10.0		100E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
105.0		000E00		000E00	790E01	330E01

C-REF-NO 017
CONS. NO 008
COUNTRY 18
INSTITUTE 22

LAT 43-29-00N
LON 079-15-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0010

NO. DEPTHS 08
SOUNDING 1280
BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		8.51	0.3	313		8.200	10.40	
10.0		8.45	0.3	316		8.190	10.41	
20.0		7.69	0.4	317		8.160	10.60	
30.0		5.90	0.3	319		8.120	11.07	
50.0		4.37	0.2	317		8.160	12.20	
75.0		3.95	0.5	318		8.170	12.22	
100.0		3.85	0.3	319		8.140	11.64	
126.0		3.81	0.6	313		8.110	11.48	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.026	0.008	0.225	0.199	27.4	0.430	0.001
10.0	0.012	0.040	0.008			27.4	0.410	
20.0	0.014	0.120	0.009			27.4	0.470	
30.0	0.014	0.050	0.004			27.3	0.450	
50.0	0.023	0.040	0.001	0.200	0.160	27.3	0.460	
75.0	0.024	0.090	0.001			27.4	0.440	
100.0	0.030	0.046	0.002			27.3	0.750	
126.0	0.034	0.050	0.002	0.225	0.175	27.5	0.940	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.36	000E00		000E00	350E01	350E01
10.0						
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
126.0		000E00		000E00	220E01	900E00

C-REF-NO 017
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 079-12-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0105

NO. DEPTHS 08
SOUNDING 1180
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		12.91	0.4	320		8.470	10.40	
10.0		12.85	0.3	321		8.470	10.16	
20.0		11.91	0.4	321		8.340	9.82	
30.0		6.30	0.3	322		8.210	11.20	
50.0		4.00	0.3	322		8.190	12.20	
75.0		3.93	0.2	325		8.190	12.43	
100.0		3.85	0.2	324		8.100	11.33	
116.0		3.81	0.4	324		8.080	11.30	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.046	0.009	0.275	0.229	28.0	0.235	
10.0	0.004	0.030	0.010			27.9	0.235	
20.0	0.008	0.066	0.009			27.9	0.250	
30.0	0.020	0.146	0.003			27.5	0.370	
50.0	0.027	0.050	0.001	0.200	0.150	27.4	0.420	
75.0	0.056	0.040	0.001			27.5	0.430	
100.0	0.035	0.040	0.001			27.5	0.960	
116.0	0.038	0.052	0.001	0.225	0.173	27.6	1.020	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.82	100E00		000E00	800E00	160E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
116.0		000E00			600E00	480E01

C-REF-NO 017
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0212

NO. DEPTHS 07
SOUNDING 0960
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.63	0.5	324		8.420	9.93	
10.0		13.52	0.3	325		8.430	10.00	
20.0		12.40	0.3	321		8.270	9.98	
30.0		5.17	0.3	323		7.880	10.17	
50.0		4.25	0.4	322		8.020	11.60	
75.0		4.12	0.4	321		7.980	10.50	
94.0		4.06	0.6	322		7.960	10.42	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.040	0.008	0.200	0.160	28.1	0.180	0.002
10.0	0.006	0.038	0.008			28.1	0.200	
20.0	0.008	0.050	0.007			28.1	0.210	
30.0	0.030	0.100	0.002			27.5	0.630	
50.0	0.022	0.056	0.002	0.175	0.119	27.4	0.530	
75.0	0.040	0.072	0.002			27.4	0.930	
94.0	0.045	0.040	0.002	0.350	0.310	27.5	1.105	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.70	500E00				
10.0		000E00				
20.0						
30.0						
50.0		200E00				
75.0						
94.0		700E00	000E00	000E00	400E00	130E01

C-REF-NO 017
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0305

NO. DEPTHS 03
SOUNDING 0150
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.48	1.5	326		8.280	9.10	
10.0		14.50	1.4	326		8.280	9.10	
13.0		14.21	2.2	326		8.180	8.87	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.012	0.080	0.008	0.325	0.245	28.2	0.210	
10.0	0.016	0.076	0.007			28.2	0.220	
13.0	0.024		0.008	0.300		28.2	0.315	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24					
10.0		200E02				
13.0		370E02	260E01	000E00		

C-REF-NO 017
CONS. NO 012
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0412

NO. DEPTHS 03
SOUNDING 0170
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.46	0.3	317		8.380	9.68	
10.0		14.47	0.5	319		8.400	9.72	
15.0		14.46	0.9	322		8.400	9.55	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.084	0.007	0.300	0.216	27.8	0.280	0.002
10.0	0.008	0.080	0.007			27.9	0.275	
15.0	0.010	0.080	0.007	0.250	0.170	27.8	0.210	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.53	800E00	000E00	000E00	300E01	600E01
10.0						
15.0		800E00	000E00	600E00	100E01	500E01

C-REF-NO 017
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 078-48-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0527

NO. DEPTHS 04
SOUNDING 0527
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.25	12.0	319	11.6	8.230	9.05	0.100
10.0		15.24	12.0	328		8.280	9.05	
20.0		15.10	13.0	330		8.260	9.18	
27.0		10.80		322	5.8	8.150	9.35	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.038	0.170	0.020			29.1	0.350	0.002
10.0	0.037	0.190	0.020			29.4	0.365	
20.0	0.035	0.150	0.020			29.6	0.365	
27.0	0.030	0.050	0.009			28.5	0.540	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.30			140E02	220E03	160E04
10.0						
20.0						
27.0					230E03	190E04

C-REF-NO 017
CONS. NO 014
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 078-50-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0618

NO. DEPTHS 08
SOUNDING 1130
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.70	4.4	322		8.310	9.30	
10.0		14.70	4.2	323		8.320	9.30	
20.0		13.05	1.6	326		8.290	9.28	
30.0		5.61	0.7	330		8.060	10.45	
50.0		4.05	0.4	325		8.100	12.30	
75.0		3.92	0.5	325		8.130	12.40	
100.0		3.84	0.5	329		8.120	12.05	
111.0		3.81	0.7	329		8.100	11.97	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.026	0.110	0.012	0.325	0.215	26.5	0.240	0.001
10.0	0.024	0.100	0.011			27.2	0.240	
20.0	0.022	0.110	0.009			27.0	0.270	
30.0	0.026	0.040	0.002			26.3	0.500	
50.0	0.027	0.040	0.001	0.200	0.160	27.7	0.420	
75.0	0.031	0.040	0.001			27.7	0.480	
100.0	0.036	0.040	0.001			27.8	0.710	
111.0	0.037	0.040	0.001	0.225	0.185	27.0	0.760	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.07	000E00		280E01	850E02	250E03
10.0		100E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
111.0		200E01		300E00		

C-REF-NO 017	LAT 43-30-00N	YEAR 1967	NO. DEPTHS 08
CONS. NO 015	LON 078-53-00W	MONTH 10	SOUNDING 1380
COUNTRY 18		DAY 02	BT SLIDE NO 015
INSTITUTE 22		TIME 0729	

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		8.66	0.3	318		8.180	11.20	
10.0		7.52	0.5	322		8.200	11.47	
20.0		5.15	0.4	325		8.160	11.77	
30.0		4.23	0.4	332		8.130	12.22	
50.0		3.98	0.5	329		8.110	12.37	
75.0		3.94	0.4	320		8.090	12.45	
100.0		3.86	0.4	329		8.130	12.55	
136.0		3.74	0.6	333		8.100	11.50	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.008	0.030	0.005	0.225	0.195	27.6	0.310	0.001
10.0	0.014	0.040	0.004			27.4	0.320	
20.0	0.021	0.050	0.002			27.4	0.360	
30.0	0.027	0.080	0.001			27.4	0.400	
50.0	0.029	0.050	0.001	0.225	0.175	27.4	0.420	
75.0	0.030	0.070	0.001			27.4	0.440	
100.0	0.031	0.050	0.001			27.4	0.420	
136.0	0.045	0.060	0.001	0.200	0.160	27.5	1.120	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.30					
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
136.0		100E00		000E00	600E00	210E01

C-REF-NO 017
CONS. NO 016
COUNTRY 18
INSTITUTE 22

LAT 43-35-00N
LON 078-55-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0825

NO. DEPTHS 08
SOUNDING 1330
BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		8.10	0.4	318	0.1	8.230	11.40	0.045
10.0		8.11	0.4	319		8.240	11.32	
20.0		6.89	0.4	325		8.220	11.39	
30.0		4.86	0.3	326		8.180	11.95	
50.0		4.00	0.3	324	0.4	8.150	12.38	0.050
75.0		3.91	0.3	325		8.160	12.50	
100.0		3.89	0.3	325		8.180	12.37	
131.0		3.77	0.3	326	0.5	8.130	12.03	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.010	0.030	0.005	0.275	0.245	27.4	0.350	0.007
10.0	0.014	0.050	0.005			27.4	0.310	
20.0	0.020	0.040	0.004			27.4	0.330	
30.0	0.024	0.044	0.002			27.4	0.400	
50.0	0.030	0.040	0.001	0.200	0.160	27.3	0.440	
75.0	0.031	0.150	0.001			27.3	0.420	
100.0	0.031	0.050	0.001			27.4	0.460	
131.0	0.037	0.050	0.001	0.200	0.150	27.4	0.780	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.77	000E00		000E00	210E01	800E00
10.0		000E00				
20.0						
30.0						
50.0		100E00				
75.0						
100.0						
131.0		000E00		000E00	110E01	700E00

C-REF-NO 017
CONS. NO 017
COUNTRY 18
INSTITUTE 22

LAT 43-39-00N
LON 078-57-00W

YEAR 1967
MONTH 10
DAY 02
TIME 0922

NO. DEPTHS 08
SOUNDING 1170
BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		12.08	0.3	320		8.430	10.85	0.050
10.0		10.06	0.4	324		8.430	10.92	
20.0		8.93	0.3	326		8.320	11.28	
30.0		5.69	0.2	325		8.220	11.54	
50.0		4.02	0.2	325		8.180	12.40	
75.0		3.88	0.2	325		8.180	12.55	
100.0		3.79	0.2	331		8.150	11.66	
115.0		3.78	0.3	331		8.110	11.72	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.044	0.006	0.200	0.156	27.8	0.200	0.001
10.0	0.006	0.060	0.005			27.5	0.250	
20.0	0.010	0.050	0.003			27.6	0.300	
30.0	0.014	0.040	0.002			27.4	0.360	
50.0	0.025	0.050	0.001			27.3	0.400	
75.0	0.029	0.030	0.001			27.3	0.390	
100.0	0.040	0.040	0.001			27.3	0.990	
115.0	0.040	0.030	0.001	0.175	0.145	27.3	1.050	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	7.46	000E00		000E00	200E00	900E00
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
115.0		000E00		000E00	600E00	700E00

C-REF-NO 017
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-44-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1016

NO. DEPTHS 06
SOUNDING 0780
BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.13	0.2	309		8.140	11.20	
10.0		6.83	0.2	319		8.140	11.25	
20.0		5.11	0.2	314		8.130	11.65	
30.0		4.51	0.2	314		8.120	11.89	
50.0		4.10	0.3	323		8.100	11.42	
75.0		4.05	0.4	322		8.080	11.28	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.100	0.005	0.275	0.175	27.5	0.240	0.002
10.0	0.004	0.110	0.005			27.5	0.260	
20.0	0.010	0.030	0.003			27.4	0.250	
30.0	0.014	0.020	0.003			27.4	0.330	
50.0	0.027	0.030	0.002	0.225	0.195	27.3	0.570	
75.0	0.029	0.030	0.002	0.225	0.195	27.3	0.610	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.42					
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0		000E00		500E01	500E00	110E01

C-REF-NO 017
CONS. NO 019
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 079-02-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1102

NO. DEPTHS 03
SOUNDING 0160
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	2.5	6.32	1.4	319	2.2	8.090	11.10	0.055
10.0		5.87	0.8	320		8.100	11.00	
14.0		5.83	0.6	320	1.3	8.090	11.02	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.026	0.150	0.007	0.250	0.100	27.1	0.610	
10.0	0.020	0.020	0.005	0.250	0.230	26.9	0.550	
14.0	0.020	0.050	0.004	0.225	0.175	27.0	0.550	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.54					
10.0						
14.0						

C-REF-NO 017
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 43-51-00N
LON 078-41-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1253

NO. DEPTHS 04
SOUNDING 0280
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	6.39	0.8	317		8.120	10.76	
10.0		6.36	0.8	328		8.100	10.80	
20.0		5.87	0.5	323		8.080	10.57	
26.0		5.86	0.6	324		8.070	10.42	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.020	0.020	0.004			27.2	0.540	0.002
10.0	0.020	0.020	0.004			27.2	0.540	
20.0	0.020	0.020	0.003			27.2	0.560	
26.0	0.020	0.220	0.004	0.225	0.005	27.2	0.570	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.78	000E00	000E00	000E00	900E00	200E01
10.0		000E00				
20.0						
26.0		000E00	000E00	000E00	250E01	700E00

C-REF-NO 017
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 43-53-00N
LON 078-32-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1351

NO. DEPTHS 03
SOUNDING 0180
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	7.32	0.6	318		8.110	10.50	
10.0		7.25	0.7	325		8.130	10.48	
16.0		7.23	0.7	326		8.130	10.70	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.010	0.020	0.004	0.228	0.205	27.8	0.470	
10.0	0.012	0.030	0.004			27.8	0.480	
16.0	0.012	0.154	0.004	0.250	0.096	27.8	0.490	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.66					
10.0						
16.0						

C-REF-NO 017
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 43-47-00N
LON 078-30-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1452

NO. DEPTHS 06
SOUNDING 0750
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.5	11.52	0.4	313		8.380	10.37	
10.0		11.32	0.3	316		8.410	10.50	
20.0		5.38	0.3	321		8.070	10.75	
30.0		5.05	0.5	323		8.080	10.91	
50.0		4.65	0.7	323		8.100	10.90	
73.0		4.30	0.8	323		8.100	11.13	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.004	0.275	0.245	27.8	0.160	0.001
10.0		0.030	0.004			27.9	0.175	
20.0	0.024	0.030	0.003			27.8	0.500	
30.0	0.025	0.030	0.002			27.7	0.490	
50.0	0.031	0.040	0.002	0.325	0.285	27.8	0.490	
73.0	0.034	0.034	0.002	0.625	0.591	27.8	0.575	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.18	000E00		200E00	300E00	210E01
10.0						
20.0						
30.0						
50.0		000E00				
73.0		100E00		000E00	180E01	230E01

C-REF-NO 017
CONS. NO 023
COUNTRY 18
INSTITUTE 22

LAT 43-43-00N
LON 078-29-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1600

NO. DEPTHS 08
SOUNDING 1070
BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.5	11.35	0.5	313		8.400	10.80	
10.0		10.97	0.3	317		8.430	10.73	
20.0		4.54	0.2	319		8.160	11.96	
30.0		3.96	0.2	321		8.110	12.20	
50.0		3.89	0.2	320		8.120	12.40	
75.0		3.85	0.2	319		8.130	12.41	
100.0		3.76	0.3	323		8.100	11.45	
105.0		3.75	0.3	325		8.070	11.66	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.038	0.004	0.350	0.312	27.8	0.140	0.001
10.0		0.030	0.004			27.8	0.140	
20.0	0.022	0.020	0.002			27.7	0.330	
30.0	0.030	0.020	0.002			27.6	0.410	
50.0	0.033	0.066	0.002	0.425	0.359	27.6	0.415	
75.0	0.034	0.060	0.001			27.7	0.380	
100.0	0.045	0.040	0.002			27.9	0.910	
105.0	0.049	0.048	0.002	0.425	0.377	27.9	0.985	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.07					
10.0		100E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
105.0		000E00		000E00	180E01	520E01

C-REF-NO 017
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1745

NO. DEPTHS 18
SOUNDING 1430
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	13.34	0.5	319	0.9	8.560	10.30	0.055
4.0		13.41	0.3	322		8.620	10.32	
7.0		13.02	0.3	317		8.540	10.43	
10.0		13.00	0.4	323		8.480	10.37	
13.0		12.91	0.3	321		8.500	10.28	
16.0		12.76	0.3	322		8.470	10.50	
19.0		12.43	0.4	322		8.410	10.30	
22.0		10.97	0.3	324		8.250	10.30	
25.0		9.17	0.3	323		8.160	10.83	
28.0			0.4	325		8.060	11.17	
30.0		5.07	0.5	317		8.100	11.85	
33.0		4.64	0.3	323		8.130	11.70	
36.0		4.36	0.3	330		8.110	11.90	
39.0		4.23	0.4	327		8.090	12.04	
49.0		3.97	0.3	323		8.100	12.13	0.065
74.0		3.90	0.3	320		8.110	12.20	
98.0		3.84	0.3	319		8.110	12.38	
138.0		3.75			1.1			

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.030	0.004	0.275	0.245	26.9	0.185	0.001
4.0	0.004	0.050	0.004	0.250	0.200	27.0	0.230	
7.0	0.014	0.050	0.003	0.275	0.175	27.1	0.200	
10.0	0.016	0.050	0.003	0.250	0.200	27.2	0.200	
13.0	0.016	0.110	0.003	0.250	0.140	27.2	0.245	
16.0	0.014	0.088	0.003	0.250	0.162	27.4	0.250	
19.0	0.004	0.040	0.003	0.225	0.185	27.4	0.245	
22.0		0.040	0.003	0.250	0.210	27.1	0.280	
25.0		0.066	0.003			27.4	0.350	
28.0			0.002	0.225		27.3	0.335	
30.0	0.012	0.060	0.003	0.200	0.140	27.7	0.415	
33.0	0.024	0.066	0.002	0.225	0.159	27.6	0.460	
36.0	0.026	0.080	0.002	0.200	0.120	27.8	0.505	
39.0	0.030	0.050	0.002	0.210	0.160	27.7	0.460	
49.0	0.035	0.100	0.001	0.200	0.100	27.7	0.515	
74.0	0.035	0.110	0.001	0.225	0.115	27.7	0.530	
98.0	0.036	0.060	0.001	0.200	0.140	27.7	0.535	
138.0			0.001			27.8	0.495	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.95					
4.0						
7.0						
10.0		000E00				
13.0						
16.0						
19.0						
22.0						
25.0						
28.0						
30.0						
33.0						
36.0						
39.0						
49.0		000E00				
74.0						
98.0						
138.0		000E00			230E01	260E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	190.0	89.8	25.0	39.200	7.900	1.400	12.400
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
30.0							
33.0							
36.0							
39.0							
49.0	199.0	96.6	26.7	41.600	7.900	1.400	12.400
74.0							
98.0							
138.0	202.0	96.1	26.6	41.600	7.900	1.300	12.000

DEPTH	CDNF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.029	0.024	0.018	0.001	0.048
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
30.0								
33.0								
36.0								
39.0								
49.0	0.000	0.000	0.000	0.000	0.010	0.003	0.002	0.002
74.0								
98.0								
138.0	0.000	0.000	0.000	0.002	0.280	0.003	0.002	0.002

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.001	0.168	0.019
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
30.0			
33.0			
36.0			
39.0			
49.0	0.001	0.168	0.002
74.0			
98.0			
138.0	0.002	0.185	0.002

C-REF-NO 017
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 02
TIME 1932

NO. DEPTHS 09
SOUNDING 1740
BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	14.27	0.4	326		8.450	9.80	
10.0		13.11	0.3	324		8.440	10.09	
20.0		10.60	0.3	320		8.280	10.45	
30.0		6.06	0.2	320		8.120	11.49	
50.0		4.12	0.1	323		8.080	12.30	
75.0		3.95	0.4	320		8.100	12.40	
100.0		3.90	0.2	324		8.090	12.30	
150.0		3.79	0.3	328		8.110	12.15	
172.0		3.75		325		8.100	11.96	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.064	0.006	0.300	0.236	26.5	0.160	0.003
10.0	0.004	0.060	0.004			26.5	0.200	
20.0	0.010	0.070	0.004			26.3	0.260	
30.0	0.022	0.066	0.002			26.1	0.375	
50.0	0.028	0.066	0.001	0.250	0.184	26.0	0.380	
75.0	0.031	0.070	0.001			26.1	0.370	
100.0	0.031	0.066	0.001			26.1	0.380	
150.0	0.040	0.070	0.001			26.1	0.760	
172.0	0.068	0.064	0.010	0.300	0.236	27.3	0.920	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.35	000E00		000E00	300E00	800E00
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
150.0						
172.0		000E00		100E00	120E01	470E01

C-REF-NO 017
CONS. NO 026
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-27-00W

YEAR 1967
MONTH 10
DAY 02
TIME 2030

NO. DEPTHS 08
SOUNDING 1450
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	14.71	0.5	325		8.460	9.71	
10.0		14.32	0.3	325		8.480	9.40	
20.0		14.00	0.3	327		8.470	9.50	
30.0		10.70	0.3	325		8.380	10.20	
50.0		4.06	0.2	322		8.220	12.20	
75.0		3.95	0.2	323		8.210	12.30	
100.0		3.87	0.2	324		8.220	12.35	
143.0		3.80	0.8	330		8.160	11.41	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.094	0.005	0.300	0.206	26.7	0.120	0.003
10.0	0.006	0.086	0.005			26.4	0.130	
20.0	0.008	0.056	0.006			26.4	0.140	
30.0	0.016	0.120	0.003			26.2	0.210	
50.0	0.035	0.040	0.001	0.200	0.160	26.1	0.360	
75.0	0.036	0.070	0.001			26.2	0.380	
100.0	0.036	0.050	0.001			26.2	0.415	
143.0	0.053	0.050	0.002	0.250	0.200	26.4	0.870	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.53	000E00		000E00	800E00	400E00
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
143.0		000E00		000E00	370E01	700E00

C-REF-NO 017
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 43-24-00N
LON 078-26-00W

YEAR 1967
MONTH 10
DAY 02
TIME 2135

NO. DEPTHS 05
SOUNDING 0400
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	14.87	0.7	325		8.510	9.75	
10.0		14.51	0.8	324		8.450	9.55	
20.0		14.36	0.7	327		8.410	9.40	
30.0		11.50	0.8	329		8.280	9.55	
38.0		5.63	1.6	330		8.050	10.10	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.080	0.005	0.300	0.220	26.9	0.160	0.003
10.0	0.014	0.060	0.005			26.8	0.220	
20.0	0.010	0.064	0.004			26.8	0.170	
30.0	0.021	0.050	0.004			26.8	0.380	
38.0	0.044	0.030	0.003	0.225	0.195	26.4	0.850	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.00					
10.0		500E00				
20.0						
30.0						
38.0		600E00	000E00	200E00	550E01	420E01

C-REF-NO 017
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 02
TIME 2337

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.56	1.1	311		8.460	9.43	0.080
10.0		15.35	1.8	317		8.410	9.38	
17.0		15.25	1.7	326		8.450	9.18	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.020	0.070	0.006	0.350	0.280	26.9	0.190	0.002
10.0	0.020	0.144	0.006			27.0	0.230	
17.0	0.024	0.068	0.006	0.300	0.232	27.0	0.270	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.77					
10.0		700E00				
17.0		200E01	200E01	120E01	130E02	130E02

C-REF-NO 017
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0030

NO. DEPTHS 08
SOUNDING 1320
BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.49	0.7	307		8.610	9.58	
10.0		15.01	0.9	318		8.600	9.66	
20.0		13.89	0.9	318		8.600	9.53	
30.0		13.34	0.8	317		8.600	9.88	
50.0		4.57	0.7	317		8.580	11.72	
75.0		3.98	0.4	319		8.570	12.21	
100.0		3.89	0.5	316		8.580	12.22	
130.0		3.83	0.6	325		8.570	11.11	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.078	0.006	0.350	0.272	26.4	0.140	0.003
10.0	0.008	0.058	0.005			26.4	0.160	
20.0	0.012	0.200	0.004			26.5	0.155	
30.0		0.040	0.003			26.4	0.175	
50.0	0.034	0.030	0.001	0.225	0.195	26.2	0.395	
75.0	0.042	0.054	0.001			26.2	0.435	
100.0	0.038	0.030	0.001			26.1	0.450	
130.0	0.060	0.030	0.001	0.210	0.180	26.2	1.020	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.00	000E00			500E00	100E01
10.0						
20.0						
30.0						
50.0						
75.0						
100.0						
130.0		000E00		000E00	100E01	700E00

C-REF-NO 017
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 43-34-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0134

NO. DEPTHS 09
SOUNDING 1750
BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.40	0.6	316		8.600	9.86	
10.0		14.20	0.7	314		8.600	9.78	
20.0		8.41	0.7	322		8.580	10.54	
30.0		4.14	0.6	325		8.580	12.14	
50.0		3.96	0.6	319		8.580	12.42	
75.0		3.87	0.5	319		8.580	12.49	
100.0		3.96	0.5	319		8.580	12.43	
150.0		3.83	0.4	320		8.580	12.55	
173.0		3.80	0.3	313		8.580	12.58	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.030	0.004	0.325	0.295	27.3	0.150	0.002
10.0	0.006	0.050	0.003			27.2	0.130	
20.0	0.010	0.050	0.003			27.0	0.290	
30.0	0.036	0.040	0.001			26.8	0.440	
50.0	0.036	0.030	0.001	0.225	0.195	26.8	0.460	
75.0	0.038	0.066	0.001			27.0	0.455	
100.0	0.037	0.030	0.001			26.7	0.450	
150.0	0.037	0.060	0.001			27.0	0.460	
173.0	0.033	0.030	0.001	0.250	0.195	27.0	0.455	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.35					
10.0		000E00				
20.0						
30.0						
50.0		370E01				
75.0						
100.0						
150.0						
173.0					200E02	130E02

C-REF-NO 017
CONS. NO 031
COUNTRY 18
INSTITUTE 22

LAT 43-40-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0231

NO. DEPTHS 09
SOUNDING 1600
BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.80	0.3	301		8.570	10.18	0.020
10.0		11.09	0.3	310		8.580	10.43	
20.0		6.32	0.3	320		8.580	11.39	
30.0		4.63	0.2	320		8.580	12.05	
50.0		4.05	0.2	318		8.580	12.12	0.065
75.0		3.92	0.2	315		8.580	12.29	
100.0		3.85		320		8.580	12.32	
150.0		3.72	0.3	324		8.580	11.37	
158.0		3.75	0.3	324		8.570	11.41	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.004	0.300	0.270	27.0	0.160	0.004
10.0		0.020	0.003			27.0	0.315	
20.0	0.016	0.050	0.002			26.6	0.345	
30.0	0.023	0.040	0.001			26.5	0.405	
50.0	0.038	0.040	0.001	0.280	0.240	26.5	0.450	
75.0	0.037	0.110	0.001			26.6	0.430	
100.0	0.041	0.050	0.001			26.7	0.445	
150.0	0.054	0.046	0.001			26.8	1.055	
158.0	0.055	0.046	0.001	0.300	0.254	26.7	1.085	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.94					
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
150.0						
158.0		000E00		300E00	150E01	190E01

C-REF-NO 017
CONS. NO 032
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0402

NO. DEPTHS 08
SOUNDING 1050
BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.42	0.5	323		8.420	10.20	
10.0		12.63	0.5	325		8.440	10.43	
20.0		10.66	0.6	328		8.280	10.22	
30.0		7.89	0.8	326		8.130	10.30	
50.0		6.93	0.7	328		8.060	10.40	
75.0		6.48	0.4	327		8.030	10.48	
100.0		4.82	0.7	326		7.960	10.75	
103.0		4.81	0.9	324		8.180	12.30	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.010	0.080	0.004	0.300	0.220	26.8	0.190	0.002
10.0	0.004	0.030	0.004			26.8	0.220	
20.0	0.004	0.040	0.003			26.7	0.360	
30.0	0.020	0.040	0.002			26.6	0.480	
50.0	0.024	0.030	0.002	0.250	0.220	26.6	0.480	
75.0	0.025	0.070	0.002			26.6	0.480	
100.0	0.033	0.060	0.002			26.6	0.570	
103.0	0.004	0.086	0.004	0.275	0.189	26.8	0.340	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24	000E00		100E00	110E01	210E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
103.0		000E00		400E00	110E01	150E01

C-REF-NO 017
CONS. NO 033
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0507

NO. DEPTHS 06
SOUNDING 0600
BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.16	0.4	319		8.490	10.47	
10.0		13.15	0.2	322		8.480	10.40	
20.0		11.70	0.3	324		8.310	10.11	
30.0		9.13	0.3	329		8.170	9.82	
50.0		6.69	0.4	329		8.080	9.96	
58.0		6.11	0.7	329		7.970	9.89	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.050	0.004	0.275	0.225	26.8	0.215	0.001
10.0		0.060	0.004			26.8	0.220	
20.0	0.008	0.070	0.003			26.6	0.275	
30.0	0.016	0.120	0.003			26.6	0.505	
50.0	0.025	0.080	0.002	0.225	0.145	26.5	0.595	
58.0	0.029	0.070	0.002	0.225	0.155	26.5	0.655	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.00	000E00		000E00	700E00	400E00
10.0		100E00				
20.0						
30.0						
50.0		100E00				
58.0		000E00		000E00	800E00	700E00

C-REF-NO 017
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 43-57-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0646

NO. DEPTHS 03
SOUNDING 0230
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.15	0.3	320		8.340	10.19	
10.0		12.49	0.5	324		8.360	10.14	
20.0		11.86		324		8.350	10.45	0.040

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.290	0.005		0.260	26.8	0.300	
10.0	0.004	0.040	0.004			26.7	0.325	
20.0	0.004	0.026	0.004	0.240	0.214	26.6	0.335	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.99					
10.0						
20.0						

C-REF-NO 017
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 43-56-00N
LON 077-39-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0855

NO. DEPTHS 04
SOUNDING 0310
BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.73	0.5	321		8.470	9.31	
10.0		15.72	0.3	326		8.500	9.46	
20.0		14.54	0.3	326		8.370	9.07	
29.0		12.98	0.4	322		8.330	9.41	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.003	0.300	0.270	27.1	0.410	0.001
10.0		0.040	0.003			27.1	0.235	
20.0		0.040	0.003			27.0	0.355	
29.0		0.040	0.003	0.550	0.510	26.9	0.505	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.52	000E00	000E00	000E00	400E00	300E00
10.0		300E00				
20.0						
29.0		300E00		000E00	200E00	600E00

C-REF-NO 017
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 43-54-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 0951

NO. DEPTHS 04
SOUNDING 0280
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.42	0.3	320		8.430	9.70	
10.0		14.24	0.2	322		8.420	9.59	
20.0		13.44	0.3	322		8.370	9.60	
26.0		13.38	0.3	323		8.370	9.80	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.004	0.030	0.004	0.350	0.320	27.0	0.230	0.001
10.0	0.004	0.026	0.003			27.1	0.250	
20.0	0.004	0.030	0.004			27.2	0.300	
26.0	0.004	0.030	0.003	0.600	0.570	27.2	0.360	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.29	100E00	000E00	600E00	300E00	800E00
10.0		000E00				
20.0						
26.0		100E00	100E00	000E00	200E00	700E00

C-REF-NO 017
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1043

NO. DEPTHS 05
SOUNDING 0530
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.23	0.3	323		8.470	9.10	
10.0		16.25	0.3	326		8.460	9.12	
20.0		16.02	0.3	325		8.410	9.00	
30.0		15.30	0.3	325		8.370	9.17	
50.0		5.21	0.5	337		8.060	10.85	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.008	0.030	0.003	0.250	0.220	27.7	0.145	0.002
10.0	0.008	0.050	0.003			27.6	0.150	
20.0	0.010	0.080	0.003			27.5	0.175	
30.0	0.012	0.050	0.003			27.2	0.240	
50.0	0.035	0.020	0.002	0.225	0.205	26.6	0.615	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.65	100E00		100E00	200E00	170E01
10.0		400E00				
20.0						
30.0						
50.0		000E00				

C-REF-NO 017
CONS. NO 038
COUNTRY 18
INSTITUTE 22

LAT 43-43-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1141

NO. DEPTHS 07
SOUNDING 0790
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.25	0.3	319		8.440	9.33	
10.0		16.29	0.3	321		8.510	9.23	
20.0		16.24	0.3	323		8.520	9.26	
30.0		9.39	0.2	323		8.310	10.10	
50.0		4.44	0.4	330		8.130	11.12	
75.0		4.05	2.5	330		8.100	11.29	
77.0		4.03	0.6	331		8.090	11.29	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.003	0.250	0.220	27.7	0.275	0.002
10.0		0.060	0.003			27.8	0.330	
20.0		0.050	0.003			27.8	0.260	
30.0	0.006	0.040	0.003			27.0	0.400	
50.0	0.040	0.030	0.002			26.7	0.740	
75.0	0.040	0.036	0.002			26.9	0.735	
77.0	0.050	0.038	0.002	0.225	0.187	26.7	0.890	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24					
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
77.0						

C-REF-NO 017
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1235

NO. DEPTHS 08
SOUNDING 1260
BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	14.22	0.2	318	0.7	8.480	10.03	0.100
10.0		14.22	0.2	321		8.530	10.03	
19.0		12.86	0.2	321		8.440	10.45	
29.0		4.91	0.2	329		8.210	11.15	
48.0		4.02	0.2	328	0.3	8.210	11.50	0.040
72.0		3.92	0.2	328		8.180	12.21	
98.0		3.83	0.2	323		8.190	12.50	
119.0		3.77	0.3	333	0.3	8.110	11.22	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.040	0.003	0.275	0.235	27.0	0.250	0.002
10.0		0.060	0.003			27.0	0.280	
19.0		0.046	0.003			27.2	0.240	
29.0		0.030	0.002			26.6	0.265	
48.0	0.019	0.030	0.002	0.275	0.245	26.8	0.415	
72.0	0.039	0.030	0.001			26.7	0.430	
98.0	0.040	0.050	0.001			26.9	0.420	
119.0	0.056	0.024	0.001	0.225	0.201	27.1	1.025	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.59	000E00		000E00	600E00	110E01
10.0		500E00				
19.0						
29.0						
48.0		000E00				
72.0						
98.0						
119.0		100E00		000E00	400E00	400E00

C-REF-NO 017
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1356

NO. DEPTHS 09
SOUNDING 1710
BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	14.68	0.2	323		8.470	9.90	
10.0		14.58	0.2	323		8.510	9.85	
20.0		14.17	0.2	325		8.470	9.73	
30.0		5.78	0.2	326		8.180	11.33	
50.0		4.14	0.2	325		8.180	12.20	
75.0		3.90	0.2	323		8.180	12.30	
100.0		3.85	0.2	319		8.180	12.38	
150.0		3.73	0.3	326		8.140	11.70	
169.0		3.75	0.3	329		8.090	11.31	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.026	0.003	0.280	0.254	27.0	0.170	0.001
10.0		0.030	0.003			27.0	0.170	
20.0		0.034	0.003			27.1	0.160	
30.0	0.023		0.001			26.4	0.365	
50.0	0.035	0.020	0.001	0.260	0.240	26.2	0.430	
75.0	0.040	0.106	0.001			26.1	0.430	
100.0	0.037	0.040	0.001			26.4	0.435	
150.0	0.046	0.030	0.001			26.4	0.980	
169.0	0.057	0.030	0.001	0.250	0.220	26.4	1.250	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.52	000E00		000E00	900E00	100E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
150.0						
169.0		000E00		000E00	220E01	110E01

C-REF-NO 017
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1508

NO. DEPTHS 09
SOUNDING 1700
BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	6.5	14.78	0.2	318		8.530	9.87	
10.0		14.74	0.3	320		8.540	9.83	
20.0		14.19	0.3	321		8.480	9.65	
30.0		6.60	0.2	323		8.210	10.40	
50.0		4.09	0.2	320		8.260	13.20	
75.0		3.94	0.2	320		8.210	12.40	
100.0		3.93	0.2	326		8.210	12.40	
150.0		4.05	0.2	328		8.180	12.40	
168.0		3.91	0.3	330		8.180	12.30	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0			0.003	0.275		26.8	0.120	0.004
10.0			0.003			26.7	0.150	
20.0			0.003			26.7	0.140	
30.0	0.022	0.040	0.001			26.6	0.340	
50.0	0.025	0.020	0.001	0.250	0.230	26.5	0.375	
75.0	0.040	0.020	0.001			26.5	0.445	
100.0	0.040	0.020	0.001			26.6	0.430	
150.0	0.040	0.030	0.001			26.7	0.530	
168.0	0.038	0.050	0.001	0.225	0.175	26.7	0.510	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.12	000E00		000E00	500E00	380E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
150.0						
168.0		000E00		000E00	300E00	900E00

C-REF-NO 017
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 43-22-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1633

NO. DEPTHS 08
SOUNDING 1210
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	15.20	0.2	320		8.500	9.87	
10.0		15.04	0.2	319		8.470	9.80	
20.0		14.55	0.1	321		8.440	9.49	
30.0		14.20	0.2	321		8.360	9.35	
50.0		4.10	0.2	318		8.050	12.03	
75.0		3.93	0.1	318		8.120	12.34	
100.0		3.90	0.4	322		8.080	11.65	
119.0		3.84	0.1	320		8.100	10.75	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.008	0.040	0.004	0.350	0.310	27.0	0.110	0.002
10.0	0.008	0.040	0.004			27.0	0.165	
20.0	0.008	0.040	0.003			26.9	0.135	
30.0	0.008	0.040	0.004			26.9	0.220	
50.0	0.033	0.030	0.001	0.250	0.220	26.4	0.430	
75.0	0.037	0.020	0.001			26.4	0.430	
100.0	0.049	0.030	0.001			26.4	0.700	
119.0	0.067	0.025	0.001	0.225	0.200	26.4	1.250	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.59	000E00	000E00	000E00	600E00	160E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
119.0		000E00	000E00	000E00	260E01	280E01

C-REF-NO 017
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 03
TIME 1745

NO. DEPTHS 04
SOUNDING 0330
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	16.44	0.3	325		8.430	9.50	
10.0		16.19	0.3	328		8.430	9.42	
20.0		15.41	0.3	325		8.370	9.10	
30.0		14.74	0.2	322		8.320	9.35	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.010	0.060	0.004	0.310	0.250	27.2	0.170	0.002
10.0	0.016	0.060	0.004			27.2	0.250	
20.0	0.010	0.060	0.004			26.9	0.180	
30.0	0.006	0.050	0.003	0.275	0.225	26.7	0.210	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24	000E00		000E00	370E01	130E02
10.0		100E01				
20.0						
30.0		000E00	000E00	000E00	600E01	500E01

C-REF-NO 017
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 2009

NO. DEPTHS 04
SOUNDING 0290
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	17.02	0.5	322	1.2	8.470	9.26	0.055
10.0		16.62	0.4	324		8.410	9.30	
20.0		16.25	0.6	324		8.360	8.73	
27.0		16.22	1.0	327	1.2	8.330	8.60	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.010	0.050	0.004	0.325	0.275	27.9	0.125	
10.0	0.010	0.065	0.003			27.9	0.120	
20.0	0.013	0.072	0.003			27.8	0.160	
27.0	0.020	0.060	0.003	0.325	0.245	27.8	0.190	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24	000E00	000E00	000E00	120E01	200E00
10.0		000E00				
20.0						
27.0		100E00	100E00	000E00	460E01	220E01

C-REF-NO 017
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-22-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 2102

NO. DEPTHS 06
SOUNDING 0770
BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	16.67	0.3	317		8.500	9.20	
10.0		16.09	0.4	324		8.430	9.04	
20.0		15.86	0.3	327		8.420	9.10	
30.0		15.70	0.3	324		8.430	9.20	
50.0		4.37	0.2	325		8.110	11.66	
75.0		3.98	0.4	321		8.070	11.56	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.012	0.070	0.004	0.310	0.240	26.8	0.180	0.001
10.0	0.008	0.062	0.003			26.7	0.230	
20.0	0.005	0.062	0.003			26.6	0.180	
30.0	0.004	0.050	0.003			26.4	0.280	
50.0	0.017	0.020	0.001	0.225	0.205	25.8	0.375	
75.0			0.002	0.225		26.0	0.720	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.94					
10.0		000E00				
20.0						
30.0						
50.0		100E00				
75.0		000E00	100E00		900E00	130E01

C-REF-NO 017
CONS. NO 046
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 03
TIME 2224

NO. DEPTHS 20
SOUNDING 2100
BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	6.0	15.37	0.4	322	0.7	8.290	9.78	0.030
4.0		15.38	0.2	322		8.430	9.61	
7.0		15.38	0.2	320		8.470	9.67	
10.0		15.37	0.2	321		8.480	9.70	
13.0		15.29	0.3	322		8.460	9.65	
16.0		14.45	0.2	327		8.330	9.30	
19.0		12.33	0.2	324		8.260	9.82	
22.0		11.50	0.2	324		8.280	9.91	
25.0		8.98	0.3	329		8.180	10.51	
28.0		6.55	0.2	328		8.080	11.11	
31.0		5.12	0.1	317		8.030	11.54	
34.0		4.93	0.2	320		7.890	11.67	
37.0		4.42	0.2	319		8.030	12.47	
40.0		4.12	0.1	319		8.100	12.20	
50.0		4.04	0.2	319	0.4	8.100	12.21	0.055
75.0		3.93	0.2	321		8.110	12.21	
100.0		3.89	0.2	320		8.120	12.10	
150.0		3.80	0.2	319		8.110	12.49	
200.0		3.74	0.2	321		8.080	11.83	
208.0		3.70	0.3	325	0.6	7.910	11.61	0.060

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.005	0.325	0.295	26.2	0.130	0.001
4.0		0.030	0.004	0.275	0.245	26.1	0.160	
7.0		0.100	0.004	0.250	0.150	26.0	0.175	
10.0		0.035	0.004	0.300	0.265	25.9	0.140	
13.0		0.035	0.003	0.280	0.245	25.9	0.245	
16.0		0.035	0.004	0.275	0.240	25.8	0.300	
19.0		0.035	0.003	0.275	0.240	25.9	0.305	
22.0		0.040	0.002	0.250	0.210	26.0	0.230	
25.0	0.005	0.040	0.002	0.260	0.220	25.7	0.350	
28.0	0.007	0.040	0.002	0.225	0.185	25.6	0.335	
31.0	0.016	0.042	0.001	0.250	0.208	26.6	0.320	
34.0	0.019	0.072	0.001	0.250	0.178	26.6	0.335	
37.0	0.016	0.046	0.001	0.225	0.179	26.6	0.370	
40.0	0.031	0.050	0.001	0.210	0.160	26.5	0.415	
50.0	0.033	0.030	0.001	0.220	0.190	27.5	0.410	
75.0	0.034	0.040	0.001	0.210	0.170	26.4	0.435	
100.0	0.035	0.040	0.001	0.200	0.160	26.6	0.450	
150.0	0.035	0.038	0.001	0.225	0.187	26.3	0.460	
200.0	0.046	0.040	0.001	0.210	0.170	26.4	0.875	
208.0	0.055	0.058	0.001	0.200	0.142	26.6	0.980	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.17	500E00		000E00	470E01	120E02
4.0						
7.0						
10.0		000E00				
13.0						
16.0						
19.0						
22.0						
25.0						
28.0						
31.0						
34.0						
37.0						
40.0						
50.0		000E00				
75.0						
100.0						
150.0						
200.0						
208.0		000E00		000E00	600E00	500E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	200.0	90.8	27.2	39.200	7.900	1.300	12.000
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
31.0							
34.0							
37.0							
40.0							
50.0	197.0	95.1	27.7	41.600	7.900	1.400	12.000
75.0							
100.0							
150.0							
200.0							
208.0	205.0	96.1	28.1	40.800	7.900	1.400	11.800

DEPTH	CDNF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.010	0.005	0.003	0.003	0.000
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0	0.000	0.000	0.000	0.010	0.018	0.003	0.001	0.000
75.0								
100.0								
150.0								
200.0								
208.0	0.000	0.000	0.000	0.001	0.022	0.004	0.004	0.002

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.002	0.190	0.002
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
31.0			
34.0			
37.0			
40.0			
50.0	0.000	0.175	0.008
75.0			
100.0			
150.0			
200.0			
208.0	0.002	0.175	0.000

C-REF-NO 017
CONS. NO 047
COUNTRY 18
INSTITUTE 22

LAT 43-35-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0021

NO. DEPTHS 09
SOUNDING 1830
BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.69	0.4	322		8.430	9.97	
10.0		15.59	0.2	320		8.540	10.03	
20.0		14.02	0.3	324		8.350	9.60	
30.0		5.81	0.2	322		8.060	10.90	
49.0		3.99	0.3	323		8.090	12.18	
74.0		3.91	0.2	325		8.120	12.10	
98.0		3.85	0.2	326		8.120	12.07	
148.0		3.74	0.2	322		8.130	12.23	
178.0		3.74	0.4	322		8.020	11.29	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.003	0.275	0.245	24.1	0.130	0.001
10.0		0.025	0.003			24.1	0.170	
20.0		0.035	0.003			23.9	0.160	
30.0		0.030	0.002			24.1	0.300	
49.0	0.037	0.035	0.002	0.175	0.140	24.1	0.450	
74.0	0.037	0.250	0.001			24.1	0.455	
98.0	0.037	0.045	0.001			26.2	0.430	
148.0	0.042	0.078	0.001			26.2	0.610	
178.0	0.060	0.040	0.002	0.180	0.140	26.2	1.090	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.94	000E00		000E00	700E00	140E01
10.0		000E00				
20.0						
30.0						
49.0		000E00				
74.0						
98.0						
148.0						
178.0		000E00		000E00	120E01	130E01

C-REF-NO 017
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 43-41-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0125

NO. DEPTHS 08
SOUNDING 1130
BT SLIDE NO 0

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.44	0.2	318	0.8	8.520	9.82	
10.0		16.46	0.2	321		8.510	9.65	
20.0		16.05	0.2	323		8.420	9.35	
30.0		5.93	0.2	321		8.070	10.81	
50.0		4.08	0.2	323	0.5	8.100	11.97	
75.0		3.96	0.2	321		8.130	12.12	
99.0		3.93	0.4	327		8.080	11.00	
110.0		3.91		332	0.4	8.020	11.22	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.025	0.003	0.350	0.325	26.8	0.255	
10.0		0.030	0.003			26.8	0.285	
20.0		0.040	0.003			27.2	0.270	
30.0	0.005	0.020	0.002			26.4	0.320	
50.0	0.030	0.024	0.002	0.225	0.201	26.2	0.470	
75.0	0.032	0.030	0.001			26.3	0.440	
99.0	0.057	0.030	0.002			26.5	0.910	
110.0	0.079	0.028	0.003	0.225	0.197	26.6	1.065	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	7.11	400E00		000E00	800E00	270E01
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
99.0						
110.0		000E00		000E00	700E00	180E01

C-REF-NO 017
CONS. NO 049
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0238

NO. DEPTHS 03
SOUNDING 0760
BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.47	0.3	324		8.460	9.40	
10.0		16.46	0.3	325		8.460	9.34	
20.0		16.25	0.2	326		8.420	9.32	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.250	0.004		0.215	27.5	0.335	0.002
10.0	0.004	0.040	0.003			27.4	0.215	
20.0	0.005	0.040	0.003			27.2	0.270	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.82	100E00		000E00	400E00	120E01
10.0		000E00				
20.0						

C-REF-NO 017
CONS. NO 050
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0350

NO. DEPTHS 03
SOUNDING 0200
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.74	0.4	321	1.2	8.410	9.32	0.040
10.0		15.74	0.4	321		8.430	9.30	
18.0		15.18	0.3	320	0.9	8.390	8.96	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.044	0.004	0.240	0.196	27.1	0.410	0.001
10.0	0.004	0.044	0.004			27.0	0.540	
18.0	0.004	0.050	0.003	0.225	0.175	26.8	0.520	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.59	000E00		000E00	100E01	180E01
10.0		000E00				
18.0		100E00		000E00	240E01	350E01

C-REF-NO 017
CONS. NO 051
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0623

NO. DEPTHS 05
SOUNDING 0390
BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.47	0.6	325		8.450	9.10	
10.0		16.49	0.6	325		8.470	9.19	
20.0		16.44	0.7	327		8.470	9.18	
30.0		16.43	0.7	325		8.470	9.15	
37.0		16.40	0.6	324		8.470	9.10	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.042	0.004	0.250	0.208	26.0	0.140	0.002
10.0	0.004	0.038	0.004			26.1	0.170	
20.0	0.004	0.038	0.004			26.0	0.160	
30.0	0.005	0.050	0.004			25.9	0.155	
37.0	0.004	0.046	0.004	0.250	0.204	25.8	0.175	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.77	300E00			500E00	200E00
10.0		000E00				
20.0						
30.0						
37.0		000E00		100E00	130E01	110E01

C-REF-NO 017
CONS. NO 052
COUNTRY 18
INSTITUTE 22

LAT 43-47-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0721

NO. DEPTHS 06
SOUNDING 0630
BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.06	0.6	319		8.510	9.59	
10.0		16.08	0.6	319		8.520	9.51	
20.0		15.83	0.6	322		8.470	9.25	
30.0		12.47	0.5	325		8.260	9.25	
50.0		4.50	1.1	324		8.090	10.96	
61.0		4.46	1.2	323		8.050	10.60	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.026	0.004	0.250	0.224	26.8	0.160	0.001
10.0		0.028	0.004			26.8	0.145	
20.0		0.054	0.003			26.6	0.140	
30.0	0.005	0.036	0.004			26.4	0.180	
50.0	0.035	0.020	0.003	0.175	0.155	26.3	0.690	
61.0	0.030	0.030	0.003	0.175	0.145	26.1	0.750	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.24	610E01		000E00	260E01	700E00
10.0		000E00				
20.0						
30.0						
50.0		000E00				
61.0		100E00		000E00	800E00	430E01

C-REF-NO 017
CONS. NO 053
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0815

NO. DEPTHS 08
SOUNDING 1100
BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.42	0.6	324		8.460	9.45	
10.0		16.28	0.7	327		8.500	9.42	
20.0		7.13	0.6	331		8.200	10.45	
30.0		6.96	0.7	324		8.140	10.56	
50.0		4.30	0.6	330		8.140	11.90	
75.0		3.93	0.6	327		8.150	12.17	
100.0		3.95	0.7	327		8.090	11.10	
108.0		3.94	1.3	328		8.070	11.10	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.006	0.030	0.003	0.250	0.220	27.7	0.185	0.001
10.0	0.003	0.028	0.003			27.4	0.200	
20.0	0.010	0.018	0.002			26.5	0.270	
30.0	0.010	0.020	0.002			26.4	0.260	
50.0	0.025	0.015	0.002	0.175	0.160	26.4	0.400	
75.0		0.025	0.002			26.5	0.455	
100.0	0.039	0.015	0.002			26.1	0.800	
108.0	0.042	0.024	0.003	0.200	0.176	26.1	0.855	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.94	000E00		000E00	140E01	180E01
10.0		000E00				
20.0						
30.0						
50.0		600E00				
75.0						
100.0						
108.0		000E00		000E00	100E01	350E01

C-REF-NO 017
CONS. NO 054
COUNTRY 18
INSTITUTE 22

LAT 43-37-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 04
TIME 0942

NO. DEPTHS 09
SOUNDING 1740
BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.71	0.5	323		8.440	9.50	
10.0		15.72	0.6	320		8.500	9.50	
20.0		15.49	0.6	321		8.470	9.30	
30.0		8.12	0.5	317		8.140	10.20	
50.0		4.10	0.5	312		8.130	12.00	
75.0		3.99	0.6	319		8.120	12.15	
100.0		3.90	0.5	318		8.140	12.20	
150.0		3.76	0.8	314		8.150	11.91	
172.0		3.79	0.9	321		8.060	10.64	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.024	0.004	0.235	0.211	27.3	0.110	0.001
10.0		0.022	0.004			27.3	0.120	
20.0		0.024	0.003			27.2	0.155	
30.0		0.028	0.003			26.8	0.180	
50.0	0.022	0.015	0.001	0.190	0.175	26.5	0.400	
75.0	0.024	0.015	0.001			26.4	0.365	
100.0	0.023	0.022	0.002			26.3	0.370	
150.0	0.024	0.020	0.002			26.3	0.605	
172.0	0.047	0.020	0.002	0.175	0.155	26.2	1.200	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.17	000E00		000E00	140E01	300E00
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
100.0						
150.0						
172.0		100E00		000E00	110E01	140E01

C-REF-NO 017
CONS. NO 055
COUNTRY 18
INSTITUTE 22

LAT 43-32-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1034

NO. DEPTHS 09
SOUNDING 1630
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.61	0.4	324		8.490	9.81	
10.0		15.62	0.4	324		8.520	9.67	
20.0		14.83	0.4	318		8.470	9.38	
30.0		8.31	0.2	325		8.180	10.00	
50.0		4.15	0.3	320		8.170	11.93	
75.0		3.95	0.3	319		8.160	12.25	
100.0		3.85	0.3	322		8.180	12.45	
150.0		3.88	0.4	328		8.090	10.70	
161.0		3.91	3.5	328		8.050	10.70	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.035	0.003			26.8	0.210	0.001
10.0		0.028	0.003			27.0	0.335	
20.0		0.030	0.003			27.0	0.340	
30.0	0.006	0.028	0.002			26.7	0.350	
50.0	0.022	0.026	0.002	0.160	0.134	26.5	0.490	
75.0	0.025	0.030	0.002			26.7	0.445	
100.0	0.026	0.030	0.002			26.7	0.515	
150.0	0.046	0.034	0.002			26.8	1.125	
161.0	0.051	0.028	0.005	0.200	0.172	27.2	1.255	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.76	000E00		000E00	400E00	200E00
10.0		000E00				
20.0						
30.0						
50.0		100E00				
75.0						
100.0						
150.0						
161.0		000E00		000E00	760E01	100E02

C-REF-NO 017
CONS. NO 056
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1142

NO. DEPTHS 05
SOUNDING 0360
BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	16.45	0.7	323		8.460	9.12	
10.0		16.46	0.6	324		8.480	9.18	
20.0		16.44	0.6	323		8.490	9.26	
30.0		16.45	0.6	323		8.490	9.11	
34.0		16.35	0.6	322		8.480	9.06	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.003	0.048	0.005	0.250	0.202	28.1	0.170	
10.0	0.007	0.078	0.006			26.9	0.190	
20.0	0.006	0.056	0.005			27.0	0.235	
30.0	0.007	0.056	0.005			27.3	0.200	
34.0	0.011	0.050	0.005	0.250	0.200	27.4	0.200	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.00	400E00	000E00	000E00	410E01	990E01
10.0		000E00				
20.0						
30.0						
34.0		000E00	000E00	000E00	500E00	180E01

C-REF-NO 017
CONS. NO 057
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 076-21-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1342

NO. DEPTHS 04
SOUNDING 0310
BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.5	16.93	0.6	323	1.0	8.390	8.70	0.080
10.0		16.93	0.6	328		8.370	9.00	
20.0		16.89	0.6	329		8.400	8.90	
29.0		16.36	0.8	336	1.1	8.320	8.50	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.009	0.060	0.004	0.250	0.190	27.7	0.640	0.002
10.0	0.007	0.050	0.004			27.5	0.395	
20.0	0.010	0.050	0.003			27.6	0.330	
29.0	0.013	0.050	0.004	0.260	0.210	28.7	0.425	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.30	190E01	200E01	000E00	420E01	800E01
10.0		120E01				
20.0						
29.0		120E01	100E00	000E00	710E01	350E01

C-REF-NO 017
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-15-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1509

NO. DEPTHS 04
SOUNDING 0280
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	16.84	0.4	323	1.1	8.370	8.92	0.050
10.0		16.81	0.4	327		8.360	8.99	
20.0		16.70	0.4	327		8.340	8.87	
26.0		16.37	0.7	332	1.0	8.350	8.80	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.005	0.050	0.003	0.250	0.200	27.9	0.230	0.001
10.0	0.007	0.040	0.003			27.9	0.255	
20.0	0.008	0.045	0.003			27.9	0.230	
26.0	0.009	0.045	0.003	0.250	0.205	30.7	0.305	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	4.18	300E00	000E00	000E00	330E01	500E00
10.0		100E00				
20.0						
26.0		200E00	100E00	000E00	120E01	600E00

C-REF-NO 017
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 43-50-00N
LON 076-22-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1626

NO. DEPTHS 05
SOUNDING 0340
BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	16.89	0.5	330		8.430	9.20	
10.0		16.84	0.4	330		8.440	9.00	
20.0		16.76	0.4	328		8.440	8.98	
30.0		16.71	0.4	328		8.410	9.00	
32.0		16.66	0.6	333		8.400	8.96	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.007	0.045	0.004	0.260	0.215	28.4	0.180	0.001
10.0	0.006	0.045	0.003			28.3	0.185	
20.0	0.010	0.052	0.003			28.2	0.190	
30.0	0.006	0.055	0.004			27.6	0.225	
32.0	0.007	0.065	0.004	0.250	0.185	27.6	0.190	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	5.47	000E00	000E00	000E00	220E01	190E01
10.0		100E00				
20.0						
30.0						
32.0		200E00	100E00	000E00	800E00	600E00

C-REF-NO 017
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 43-55-00N
LON 076-15-00W

YEAR 1967
MONTH 10
DAY 04
TIME 1839

NO. DEPTHS 04
SOUNDING 0260
BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	16.67	0.4	319	1.7	8.410	9.52	0.060
10.0		16.45	0.4	320		8.380	9.18	
20.0		16.44	0.5	321		8.330	8.90	
23.0		16.00	1.2	323		8.260	8.48	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.005	0.046	0.005	0.275	0.229	27.3	0.190	0.002
10.0	0.006	0.035	0.004			27.5	0.230	
20.0	0.008	0.040	0.004			27.4	0.235	
23.0	0.014	0.055	0.006	0.275	0.220	25.5	0.580	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	6.41	200E00	000E00	000E00	590E01	110E01
10.0		100E00				
20.0						
23.0		400E00	400E00	000E00	330E01	600E00

C-REF-NO 017
CONS. NO 061
COUNTRY 18
INSTITUTE 22

LAT 44-02-00N
LON 076-33-00W

YEAR 1967
MONTH 10
DAY 04
TIME 2329

NO. DEPTHS 03
SOUNDING 0230
BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.55	1.1	320	1.2	8.510	9.72	0.030
10.0		15.98	1.0	320		8.460	9.30	
20.0		15.98	0.8	324	0.9	8.440	9.10	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.060	0.005	0.225	0.165	27.8	0.470	0.002
10.0		0.040	0.005			27.5	0.580	
20.0		0.050	0.005	0.225	0.175	27.6	0.390	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	8.28	400E00				
10.0		100E00				
20.0		000E00	000E00	000E00	900E00	200E00

C-REF-NO 017
CONS. NO 062
COUNTRY 18
INSTITUTE 22

LAT 44-00-00N
LON 076-43-00W

YEAR 1967
MONTH 10
DAY 05
TIME 0513

NO. DEPTHS 05
SOUNDING 0350
BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		15.84	0.5	323		8.390	9.38	
10.0		15.81	0.6	327		8.440	9.33	
20.0		15.49	0.5	327		8.410	9.41	
29.0		13.29	0.5	330		8.110	8.00	
32.0		11.20	1.0	334		7.910	8.31	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.055	0.005	0.315	0.260	28.1	0.270	0.002
10.0		0.035	0.005			27.7	0.280	
20.0		0.025	0.005			27.8	0.400	
29.0	0.030	0.020	0.006			27.6	1.000	
32.0	0.070	0.020	0.006	0.200	0.180	27.7	1.500	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.01					
10.0		200E00				
20.0						
29.0						
32.0		200E00	000E00	000E00	300E00	500E00

C-REF-NO 017
CONS. NO 063
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 05
TIME 0736

NO. DEPTHS 03
SOUNDING 0738
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		16.03	0.4	320		8.450	9.49	
10.0		16.05	0.5	325		8.490	9.43	
20.0		15.56	0.4	326		8.410	9.50	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0				0.250				0.001
10.0								
20.0								

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		400E00		000E00	700E00	290E01
10.0		100E00				
20.0						

C-REF-NO 017
CONS. NO 064
COUNTRY 18
INSTITUTE 22

LAT 43-41-36N
LON 079-10-36W

YEAR 1967
MONTH 10
DAY 05
TIME 1719

NO. DEPTHS 05
SOUNDING 0340
BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	7.99	1.6	316	1.8	8.090	11.27	0.040
10.0		5.76	0.9	323		8.040	10.90	
20.0		5.68	0.8	328		8.030	10.68	
30.0		5.65	0.8	327		8.020	10.80	
33.0		5.66	0.8	329	1.2	8.020	10.80	0.045

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.035	0.050	0.007	0.185	0.135	26.6	0.720	
10.0	0.025	0.035	0.004			26.4	0.700	
20.0	0.030	0.030	0.004			26.5	0.750	
30.0	0.030	0.040	0.004			26.4	0.780	
33.0	0.030	0.040	0.004	0.215	0.175	26.5	0.880	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00			150E03	290E02
10.0		000E00				
20.0						
30.0						
33.0		000E00	000E00	200E00	370E02	100E02

C-REF-NO 017
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 43-40-06N
LON 079-14-24W

YEAR 1967
MONTH 10
DAY 05
TIME 1754

NO. DEPTHS 03
SOUNDING 0210
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	6.0	6.55	0.5	321	0.9	8.040	10.82	0.055
10.0		5.91	0.7	328		8.020	10.78	
19.0		5.80	0.7	322	0.8	8.010	10.72	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.035	0.050	0.004	0.240	0.190	26.6	0.590	
10.0	0.030	0.045	0.005			26.5	0.580	
19.0	0.030	0.025	0.004	0.310	0.285	26.4	0.660	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
19.0						

C-REF-NO 017
CONS. NO 066
COUNTRY 18
INSTITUTE 22

LAT 43-38-42N
LON 079-17-48W

YEAR 1967
MONTH 10
DAY 05
TIME 1852

NO. DEPTHS 03
SOUNDING 0130
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	7.04	0.7	323	1.2	8.050	11.50	0.050
10.0		6.95	0.8	326		8.060	10.99	
12.0		6.55	1.1	334	1.0	7.960	11.15	0.055

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.040	0.035	0.005	0.240	0.205	26.6	0.580	
10.0	0.040	0.045	0.005			26.7	0.590	
12.0	0.040	0.040	0.005	0.300	0.260	26.7	0.610	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
12.0						

C-REF-NO 017
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 43-36-06N
LON 079-25-24W

YEAR 1967
MONTH 10
DAY 05
TIME 1957

NO. DEPTHS 05
SOUNDING 0390
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	7.84	1.1	321	1.6	8.170	10.39	0.085
10.0		7.53	1.1	325		8.160	11.26	
20.0		6.20	0.8	326		8.110	11.00	
30.0		5.16	0.9	325		8.060	11.10	
37.0		5.13	0.9	327	1.6	7.930	10.47	0.075

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.050	0.050	0.010	0.260	0.210	26.8	0.520	
10.0	0.050	0.045	0.010			26.8	0.500	
20.0	0.055	0.075	0.012			26.8	0.600	
30.0	0.050	0.040	0.009			26.5	0.730	
37.0	0.050	0.060	0.008	0.350	0.290	26.5	0.780	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
20.0						
30.0						
37.0						

C-REF-NO 017
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 43-34-36N
LON 079-29-12W

YEAR 1967
MONTH 10
DAY 05
TIME 2044

NO. DEPTHS 04
SOUNDING 0260
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	8.38	1.0	328	1.6	8.150	11.22	0.095
10.0		8.29	0.8	331		8.150	10.99	
20.0		5.90	0.8	327		8.060	10.55	
24.0		5.39		337	2.0	8.030	10.51	0.085

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0	0.060	0.050	0.014	0.300	0.250	27.0	0.560	
10.0	0.055	0.050	0.014			27.1	0.560	
20.0	0.060	0.050	0.014			26.7	0.650	
24.0		0.030	0.012	0.290	0.260	26.8	0.760	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
20.0						
24.0						

C-REF-NO 017
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 079-32-30W

YEAR 1967
MONTH 10
DAY 05
TIME 2121

NO. DEPTHS 03
SOUNDING 0170
BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	8.66	1.1	323	2.0	8.080	11.09	0.160
10.0		7.83	1.1	331		8.070	10.79	
15.0		5.42		342	1.3	8.030	10.43	0.100

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.050	0.015	0.135	0.085	27.0	0.590	
10.0		0.045	0.015			27.1	0.600	
15.0		0.020	0.010			26.6	0.700	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
15.0						

C-REF-NO 017
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT 43-30-12N
LON 079-33-00W

YEAR 1967
MONTH 10
DAY 05
TIME 2202

NO. DEPTHS 04
SOUNDING 0320
BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	7.78	0.6	327	1.2	8.110	10.61	0.075
10.0		7.50	0.5	331		8.110	10.53	
20.0		5.09	0.5	328		8.070	10.92	
30.0		4.87		332	1.6	8.070	11.10	0.055

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.035	0.008	0.345	0.310	27.0	0.580	0.002
10.0		0.030	0.008			26.9	0.580	
20.0		0.025	0.005			26.6	0.710	
30.0		0.020	0.003	0.210	0.190	26.5	0.710	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		600E00				
10.0		170E02				
20.0						
30.0		100E01				

C-REF-NO 017
CONS. NO 071
COUNTRY 18
INSTITUTE 22

LAT 43-31-48N
LON 079-29-30W

YEAR 1967
MONTH 10
DAY 05
TIME 2251

NO. DEPTHS 05
SOUNDING 0520
BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	7.80	0.5	332	1.3	8.130	11.10	0.070
10.0		7.81	0.6	327		8.130	11.29	
20.0		5.93	0.6	325		8.050	11.30	
30.0		5.38	0.6	325		8.050	11.33	
50.0		4.98		326	1.3	8.050	11.39	0.120

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.045	0.007	0.210	0.165	28.3	0.570	
10.0		0.020	0.008			28.3	0.570	
20.0		0.020	0.005			28.1	0.580	
30.0		0.020	0.006			28.0	0.680	
50.0		0.020	0.004	0.230	0.210	27.9	0.690	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		100E00		100E00		
10.0		100E01				
20.0						
30.0						
50.0		690E01		700E00		

C-REF-NO 017
CONS. NO 072
COUNTRY 18
INSTITUTE 22

LAT 43-33-12N
LON 079-25-36W

YEAR 1967
MONTH 10
DAY 05
TIME 2341

NO. DEPTHS 06
SOUNDING 0620
BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.43	1.0	322	0.8	8.060	11.21	0.035
10.0		7.43	0.3	325		8.080	11.40	
20.0		7.22	0.3	325		8.100	11.70	
30.0		5.77	0.2	327		8.180	10.91	
50.0		5.55	0.2	326	1.0	8.200	10.99	0.035
60.0		4.64		326	1.3	8.200	10.96	0.045

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.025	0.005	0.285	0.260	28.2	0.380	0.001
10.0		0.025	0.005			28.2	0.390	
20.0		0.025	0.004			28.2	0.380	
30.0		0.020	0.003			28.2	0.550	
50.0		0.025	0.003	0.325	0.300	28.2	0.560	
60.0		0.030	0.003	0.275	0.245	28.0	0.590	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		700E00		000E00		150E02
10.0		100E00				
20.0						
30.0						
50.0						
60.0		000E00		000E00	500E02	

C-REF-NO 017
CONS. NO 073
COUNTRY 18
INSTITUTE 22

LAT 43-34-24N
LON 079-22-06W

YEAR 1967
MONTH 10
DAY 06
TIME 0033

NO. DEPTHS 06
SOUNDING 0730
BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.05	0.5	319	1.0	8.130	11.30	0.045
10.0		7.06	0.6	324		8.120	11.40	
20.0		5.99	0.3	325		8.080	10.82	
30.0		5.43	0.4	327		8.040	10.60	
50.0		4.96	0.3	326	1.1	8.020	10.83	0.040
71.0		4.12		325	1.0	8.010	10.72	0.065

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.020	0.006	0.280	0.260	28.7	0.440	
10.0		0.025	0.005			28.7	0.450	
20.0		0.020	0.004			28.8	0.470	
30.0		0.025	0.003			28.0	0.500	
50.0		0.025	0.003	0.250	0.225	28.1	0.560	
71.0		0.020	0.002	0.240	0.220	27.9	0.650	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		360E01	000E00	600E00		
10.0		300E00				
20.0						
30.0						
50.0		170E01				
71.0		200E00	000E00	000E00		

C-REF-NO 017
CONS. NO 074
COUNTRY 18
INSTITUTE 22

LAT 43-35-48N
LON 079-18-24W

YEAR 1967
MONTH 10
DAY 06
TIME 0125

NO. DEPTHS 07
SOUNDING 0860
BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.69	0.5	321	1.0	8.190	11.26	0.045
10.0		7.61	0.5	328		8.150	11.31	
20.0		5.97	0.4	327		8.070	10.96	
30.0		4.76	0.3	326		8.090	11.98	
50.0		4.04	0.3	323	0.9	8.070	11.75	0.060
75.0		3.99	0.5	322		8.040	11.48	
84.0		3.99	0.6	325	1.2	8.040	11.60	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.035	0.005	0.290	0.255	28.3	0.380	0.001
10.0		0.035	0.005			28.5	0.380	
20.0		0.030	0.004			28.2	0.420	
30.0		0.020	0.001			28.1	0.420	
50.0		0.040	0.001	0.250	0.210	27.9	0.710	
75.0		0.035	0.002			27.9	0.650	
84.0		0.015	0.002	0.225	0.210	27.9	0.680	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		200E00	000E00	000E00		
10.0		000E00				
20.0						
30.0						
50.0		000E00				
75.0						
84.0		000E00	000E00	200E00		

C-REF-NO 017
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 43-37-06N
LON 079-14-42W

YEAR 1967
MONTH 10
DAY 06
TIME 0218

NO. DEPTHS 07
SOUNDING 0899
BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.38	0.6	321	1.1	8.100	10.77	0.060
10.0		7.28	0.6	322		8.060	11.20	
20.0		4.40	0.4	322		8.030	11.66	
30.0		4.10	0.4	324		8.020	11.80	
50.0		4.03	0.4	324	0.6	8.040	12.05	0.025
75.0		3.90	0.6	326		8.020	12.18	
86.0		3.92	0.8	327	1.0		11.72	

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.035	0.005	0.225	0.190	28.6	0.390	
10.0		0.035	0.005			28.6	0.370	
20.0		0.020	0.001			28.2	0.410	
30.0		0.020	0.001			28.2	0.430	
50.0		0.020	0.001	0.190	0.170	28.2	0.450	
75.0		0.020	0.001			28.1	0.730	
86.0		0.015	0.002	0.200		28.2	0.780	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		160E01	200E00	000E00		
10.0						
20.0						
30.0						
50.0		100E00				
75.0						
86.0		200E00	200E00	200E01	220E03	

C-REF-NO 017
CONS. NO 076
COUNTRY 18
INSTITUTE 22

LAT 43-38-36N
LON 079-11-00W

YEAR 1967
MONTH 10
DAY 06
TIME 0315

NO. DEPTHS 07
SOUNDING 0880
BT SLIDE NO 076

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		6.97	0.9	321	0.8	8.110	10.80	0.035
10.0		6.98	0.5	327		8.130	11.02	
20.0		6.78	0.4	323		8.120	11.28	
30.0		6.16	0.4	321		8.090	11.40	
50.0		4.10	0.4	322	0.6	8.070	12.43	0.035
75.0		4.00	0.5	323		8.050	11.40	
86.0		3.96	0.8	322	1.5	8.020	11.32	0.055

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0			0.004	0.190		28.1	0.430	
10.0			0.004			28.2	0.420	
20.0			0.004			28.2	0.390	
30.0			0.003			28.1	0.400	
50.0			0.001	0.200		27.9	0.390	
75.0			0.001			27.9	0.660	
86.0			0.002	0.190		28.0	0.690	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		500E00		170E01		
10.0		300E00				
20.0						
30.0						
50.0		500E00				
75.0						
86.0		100E00		900E00	180E03	

C-REF-NO 017
CONS. NO 077
COUNTRY 18
INSTITUTE 22

LAT 43-34-12N
LON 079-14-48W

YEAR 1967
MONTH 10
DAY 06
TIME 0419

NO. DEPTHS 08
SOUNDING 1070
BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		9.97	0.4	310	1.1	8.360	11.80	0.030
10.0		8.88	0.4	324		8.370	11.99	
20.0		5.36	0.3	322		8.210	11.72	
30.0		4.42	0.2	323		8.130	12.15	
50.0		4.21	0.2	327	0.5	8.103	12.33	0.070
75.0		3.88	0.3	324		8.080	12.15	
100.0		3.80	0.5	321		8.060	11.91	
105.0		3.79	0.5	321	1.3	8.050	11.70	0.065

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.035	0.006	0.225	0.190	26.8	0.400	
10.0		0.065	0.005			26.8	0.390	
20.0		0.040	0.002			26.4	0.530	
30.0		0.035	0.001			26.2	0.510	
50.0		0.035	0.001	0.200	0.165	26.2	0.500	
75.0		0.060	0.001			26.0	0.730	
100.0		0.035	0.002			26.0	0.960	
105.0		0.035	0.002	0.125		26.0	0.980	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		500E00		120E01	760E02	
10.0		400E00				
20.0		400E00				
30.0						
50.0		800E00				
75.0						
100.0						
105.0		160E01			630E02	

C-REF-NO 017
CONS. NO 078
COUNTRY 18
INSTITUTE 22

LAT 43-32-54N
LON 079-18-36W

YEAR 1967
MONTH 10
DAY 06
TIME 0521

NO. DEPTHS 07
SOUNDING 1020
BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		8.99	0.3	313	0.7	8.170	11.59	0.020
10.0		8.95	0.4	320		8.250	11.55	
20.0		6.08	0.4	326		8.180	11.40	
30.0		4.72	0.3	321		8.110	12.00	
50.0		4.08	0.4	322	0.4	8.080	12.31	0.045
75.0		3.91	0.3	322		8.100	12.38	
100.0		3.86	0.6	325		8.100	11.90	0.175

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.030	0.005	0.225	0.195	26.4	0.450	
10.0		0.030	0.005			26.5	0.450	
20.0		0.030	0.004			26.2	0.480	
30.0		0.025	0.001			26.1	0.540	
50.0		0.025	0.001	0.180	0.155	26.0	0.570	
75.0		0.065	0.001			26.0	0.600	
100.0		0.025	0.002	0.150	0.010	26.1	0.840	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		200E00		100E00		
10.0		000E00				
20.0						
30.0						
50.0		100E01				
75.0						
100.0		100E00		100E00		

C-REF-NO 017
CONS. NO 079
COUNTRY 18
INSTITUTE 22

LAT 43-31-24N
LON 079-22-18W

YEAR 1967
MONTH 10
DAY 06
TIME 0643

NO. DEPTHS 07
SOUNDING 0969
BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		8.81	0.5	313	0.8	8.200	11.56	0.035
10.0		8.81	0.4	320		8.160	11.60	
20.0		5.23	0.3	324		8.060	11.65	
30.0		4.05	0.3	324		8.140	12.08	
50.0		3.95	0.3	321	0.5	8.090	12.05	0.060
75.0		3.92	0.5	318		8.080	12.05	
89.0		3.93	0.6	322	0.4	8.050	12.22	0.035

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.040	0.005	0.200	0.160	26.3	0.380	0.001
10.0		0.030	0.005			26.4	0.420	
20.0		0.030	0.001			26.1	0.480	
30.0		0.025	0.001			26.1	0.540	
50.0		0.020	0.001	0.175	0.155	26.2	0.630	
75.0		0.025	0.001			26.2	0.710	
89.0		0.020	0.001	0.180	0.160	26.3	0.840	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		200E00		300E01		
10.0		100E00				
20.0						
30.0						
50.0		000E00				
75.0						
89.0		400E00		400E00		

C-REF-NO 017
CONS. NO 080
COUNTRY 18
INSTITUTE 22

LAT 43-30-18N
LON 079-26-00W

YEAR 1967
MONTH 10
DAY 06
TIME 0740

NO. DEPTHS 07
SOUNDING 0817
BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.57	0.5	321	0.5	8.050	11.39	0.025
10.0		7.59	0.4	322		8.100	11.40	
20.0		6.90	0.4	323		8.100	11.36	
30.0		5.06	0.6	327		8.070	11.70	
50.0		3.98	0.5	319	0.4	8.020	12.55	0.065
75.0		4.06	0.7	321			11.50	
79.0		4.06		328	0.3	8.000	11.50	0.085

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0		0.020	0.004	0.190	0.170	26.5	0.370	
10.0		0.025	0.004			26.5	0.340	
20.0		0.020	0.003			26.4	0.360	
30.0		0.035	0.002			26.4	0.460	
50.0		0.090	0.001	0.190	0.100	26.3	0.740	
75.0		0.045	0.001			26.6	0.690	
79.0		0.025	0.010	0.175	0.150	27.3	0.800	

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		300E00		000E00		
10.0		000E00				
20.0						
30.0						
50.0		100E00				
75.0						
79.0						

C-REF-NO 017	LAT 43-18-00N	YEAR 1967	NO. DEPTHS 07
CONS. NO 081	LON 079-28-00W	MONTH 10	SOUNDING 0840
COUNTRY 18		DAY 06	BT SLIDE NO 081
INSTITUTE 22		TIME 0909	

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		7.77						
10.0		7.78						
20.0		5.74						
30.0		4.89						
50.0		4.04						
75.0		4.05						
82.0		4.04						

DEPTH	R PO4	NH3	NO2 NF	TKJ N	ORG N	CL	R SIO2	PHEN
1.0								
10.0								
20.0								
30.0								
50.0								
75.0								
82.0								

DEPTH	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
10.0						
20.0						
30.0						
50.0						
75.0						
82.0						

CRUISE 67 - 019, October 17 - 21

C-REF-NO 019
CONS. NO 001
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 079-39-00W

YEAR 1967
MONTH 10
DAY 17
TIME 1352

NO. DEPTHS 06
SOUNDING 0591
BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	11.69	0.6	331	1.6	7.870	10.28	0.050
10.0		11.41	0.6	329		8.100	10.56	
19.0		8.47	1.2	334		7.960	10.50	
29.0		7.88	0.8	331		7.960	10.68	
48.0		4.60	1.0	331	1.7	7.440	10.34	0.065
55.0		4.56	10.2	329	2.0	7.830	9.82	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.030	0.042	0.003	0.045	0.220	0.190	27.1
10.0	0.005	0.020	0.047	0.003	0.050			26.8
19.0	0.010	0.040	0.140	0.010	0.150			27.0
29.0	0.005	0.020	0.122	0.003	0.125			26.7
48.0	0.065	0.015	0.188	0.002	0.190	0.150	0.135	26.7
55.0	0.140	0.050	0.195	0.005	0.200	0.275	0.225	27.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.330	0.004	11.44					
10.0	0.330			000E00				
19.0	0.540							
29.0	0.490							
48.0	0.990			200E00				
55.0	0.920			000E00	400E00	600E00		

C-REF-NO 019
CONS. NO 002
COUNTRY 18
INSTITUTE 22

LAT 43-13-00N
LON 079-24-00W

YEAR 1967
MONTH 10
DAY 17
TIME 1547

NO. DEPTHS 03
SOUNDING 0160
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	11.12	0.4	305	1.4	8.390	11.00	0.040
10.0		10.56	0.6	312		8.340	10.92	
14.0		10.54	0.6	318	1.8	8.300	11.00	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.062	0.003	0.065	0.210	0.190	28.2
10.0	0.000	0.020	0.067	0.003	0.070			28.1
14.0	0.000	0.015	0.067	0.003	0.070	0.220	0.205	28.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.240		11.09					
10.0	0.280							
14.0	0.310							

C-REF-NO 019
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 079-28-00W

YEAR 1967
MONTH 10
DAY 17
TIME 1720

NO. DEPTHS 17
SOUNDING 0829
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5		1.0		1.1		11.03	0.035
4.0		10.96	0.6	324		8.360	11.40	
7.0		10.95	0.6	323		8.350	11.25	
10.0		10.94	0.6	323		8.330	11.20	
13.0		10.74	0.7	328		8.290	11.09	
16.0		10.04	0.8	328		8.190	10.90	
19.0		8.73	0.6	329		8.050	11.10	
22.0		7.72	0.6	329		8.010	11.05	
25.0		7.52	0.4	329		8.000	11.00	
28.0		7.34	0.7	329		8.000	11.00	
31.0		7.18	0.6	330		7.990	10.74	
34.0		7.01	0.6	330		7.990	11.03	
37.0		6.89	0.6	331		7.960	11.15	
40.0		6.84	0.3	330		7.930	11.15	
50.0		5.77	0.4	330	0.8	7.910	11.11	0.045
75.0		4.44	0.6	329		7.890	11.03	
81.0		4.37	0.7	329		7.880	10.92	0.065

DEPTH	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020				0.275	0.255	27.7
4.0	0.000	0.015	0.048	0.002	0.050	0.250	0.235	27.6
7.0	0.000	0.020	0.048	0.002	0.050	0.275	0.255	28.1
10.0	0.000	0.015	0.048	0.002	0.050	0.350	0.335	27.9
13.0	0.000	0.020	0.058	0.002	0.060	0.200	0.180	27.8
16.0	0.000	0.020	0.068	0.002	0.070	0.240	0.220	26.9
19.0	0.010	0.025	0.087	0.003	0.090	0.190	0.165	26.8
22.0		0.025	0.131	0.004	0.135	0.230	0.205	26.7
25.0	0.025	0.015	0.135	0.005	0.140	0.250	0.235	26.8
28.0	0.025	0.025	0.144	0.006	0.150	0.220	0.195	26.8
31.0	0.030	0.025	0.160	0.005	0.165	0.175	0.150	27.1
34.0	0.025	0.025	0.151	0.004	0.155	0.290	0.265	27.3
37.0	0.020	0.025	0.148	0.002	0.150	0.190	0.165	27.2
40.0	0.050	0.030	0.148	0.002	0.150	0.160	0.130	27.2
50.0	0.040	0.035	0.164	0.001	0.165	0.200	0.165	27.2
75.0	0.070	0.020	0.179	0.001	0.180	0.250	0.230	27.3
81.0	0.065	0.020	0.199	0.001	0.200	0.180	0.160	27.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	0.002	8.63	000E00			600E01	240E01
4.0	0.120							
7.0	0.210							
10.0	0.190			100E00				
13.0	0.250							
16.0	0.270							
19.0	0.330							
22.0	0.420							
25.0	0.490							
28.0	0.520							
31.0	0.470							
34.0	0.440							
37.0	0.430							
40.0	0.430							
50.0	0.530			000E00				
75.0	0.890							
81.0	0.920			100E00		350E01	910E01	640E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	195.0	93.2	27.3	40.000	7.900	1.300	11.800
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
31.0							
34.0							
37.0							
40.0							
50.0	197.0	95.6	27.0	40.800	7.900	1.300	11.600
75.0							
81.0	199.0	98.1	26.9	42.000	7.900	1.300	11.600

C-REF-NO 019
CONS. NO 004
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 079-32-00W

YEAR 1967
MONTH 10
DAY 17
TIME 1945

NO. DEPTHS 07
SOUNDING 0926
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	11.41	0.5	325		8.520	11.40	
10.0		11.33	0.8	322		8.460	11.11	
20.0		8.19	0.6	325		8.180	11.20	
30.0		6.23	0.6	343		8.020	10.96	
50.0		4.99	0.6	326		7.980	11.30	
75.0		4.37	0.8	330		7.970	11.14	
91.0		4.06	1.1	335		7.960	11.28	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.023	0.002	0.025	0.300	0.280	29.1
10.0	0.000	0.020	0.028	0.002	0.030			29.2
20.0	0.000	0.020	0.094	0.001	0.095			28.7
30.0	0.020	0.015	0.147	0.003	0.150			28.7
50.0	0.045	0.010	0.164	0.001	0.165	0.210	0.200	28.6
75.0	0.050	0.040	0.169	0.001	0.170			27.7
91.0	0.060	0.020	0.174	0.001	0.175	0.170	0.150	28.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.240	0.003	11.56					
10.0	0.220			000E00				
20.0	0.310							
30.0	0.480							
50.0	0.670			100E00				
75.0	0.660							
91.0	0.850			100E00		210E01	460E01	400E01

C-REF-NO 019
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 079-36-00W

YEAR 1967
MONTH 10
DAY 17
TIME 2045

NO. DEPTHS 04
SOUNDING 0280
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	11.80	0.3	326	1.3	8.390	10.70	0.035
10.0		11.81	1.0	322		8.410	10.60	
20.0		11.41	0.8	319		8.360	10.71	
26.0		10.90	1.0	322	1.5	8.300	10.48	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.048	0.002	0.050	0.225	0.205	29.4
10.0	0.000	0.035	0.048	0.002	0.050			30.6
20.0	0.010	0.030	0.053	0.002	0.055			30.0
26.0	0.010	0.015	0.063	0.002	0.065	0.225	0.210	29.4

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220		9.10					
10.0	0.230							
20.0	0.240							
26.0	0.320							

C-REF-NO 019
CONS. NO 006
COUNTRY 18
INSTITUTE 22

LAT 43-37-00N
LON 079-20-00W

YEAR 1967
MONTH 10
DAY 17
TIME 2230

NO. DEPTHS 02
SOUNDING 0130
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	12.17	1.2	327		8.450	10.36	
10.0		12.17	1.1	325		8.450	10.34	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.035	0.038	0.002	0.040	0.225	0.190	29.8
10.0	0.000	0.020	0.038	0.002	0.040	0.260	0.240	29.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180		7.11					
10.0	0.230							

C-REF-NO 019
CONS. NO 007
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 079-17-00W

YEAR 1967
MONTH 10
DAY 17
TIME 2318

NO. DEPTHS 08
SOUNDING 1066
BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.77	0.6	327		8.480	11.30	
10.0		10.75	0.8	329		8.490	11.30	
20.0		9.98	0.7	323		8.410	11.02	
30.0		6.51	1.0	325		8.140	11.31	
50.0		4.01	1.0	329		8.080	12.30	
75.0		3.91	0.8	331		8.070	12.11	
100.0		3.83	1.3	334		8.060	11.60	
105.0		3.84	4.0	330		8.040	11.67	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.035	0.043	0.002	0.045	0.275	0.240	30.1
10.0	0.000	0.030	0.043	0.002	0.045			30.5
20.0	0.000	0.030	0.058	0.002	0.060			29.9
30.0	0.000	0.030	0.139	0.001	0.140			29.7
50.0	0.050	0.030	0.169	0.001	0.170	0.190	0.160	29.5
75.0	0.055	0.040	0.169	0.001	0.170			29.5
100.0	0.065	0.035	0.174	0.001	0.175			29.7
105.0	0.075	0.050	0.167	0.003	0.170	0.275	0.225	30.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.240	0.002	10.04	200E00		300E00	200E01	180E01
10.0	0.190			000E00				
20.0	0.220							
30.0	0.370							
50.0	0.440			000E00				
75.0	0.510							
100.0	0.840							
105.0	0.910							

C-REF-NO 019
CONS. NO 008
COUNTRY 18
INSTITUTE 22

LAT 43-29-00N
LON 079-15-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0025

NO. DEPTHS 08
SOUNDING 1304
BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.00	0.5	327		8.520	11.23	
10.0		10.99	0.8	326		8.500	11.20	
20.0		8.42	0.8	328		8.300	11.40	
30.0		5.65	0.8	328		8.120	11.42	
50.0		4.07	1.0	328		8.070	12.00	
75.0		3.92	1.0	339		8.100	12.25	
100.0		3.87	0.5	327		8.060	11.90	
129.0		3.83	0.9	331		8.010	10.97	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.033	0.002	0.035	0.275	0.255	30.3
10.0	0.000	0.050	0.038	0.002	0.040			30.2
20.0	0.000	0.030	0.098	0.002	0.100			29.9
30.0	0.030	0.015	0.149	0.001	0.150			29.9
50.0	0.050	0.015	0.159	0.001	0.160	0.200	0.185	29.3
75.0	0.060	0.060	0.159	0.001	0.160			29.3
100.0	0.070	0.030	0.164	0.001	0.165			29.4
129.0	0.090	0.030	0.174	0.001	0.175	0.200	0.170	29.6

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.190		10.86	420E01		180E01	160E01	650E01
10.0	0.160			100E00				
20.0	0.270							
30.0	0.380							
50.0	0.450			100E00				
75.0	0.480							
100.0	0.710							
129.0	1.240			200E00		130E01	230E01	750E01

C-REF-NO 019
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 079-12-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0114

NO. DEPTHS 08
SOUNDING 1232
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.57	0.5	323		8.480	11.27	
10.0		10.63					11.38	
20.0		9.04	0.3	317		8.270	10.86	
30.0		6.50	0.3	323		8.120	11.42	
50.0		4.63	0.3	321		8.080	12.00	
75.0		4.12	0.3	329		8.040	12.00	
100.0		3.94	0.3	329		8.030	11.82	
121.0		3.87	0.3	323		7.990	11.68	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.015	0.043	0.002	0.045	0.300	0.285	30.0
10.0	0.000	0.070	0.038	0.002	0.040			30.0
20.0	0.015	0.030	0.079	0.001	0.080			29.7
30.0	0.030	0.020	0.134	0.001	0.135			29.5
50.0	0.055	0.020	0.159	0.001	0.160	0.180	0.160	29.5
75.0	0.055	0.030	0.164	0.001	0.165			29.4
100.0	0.075	0.040	0.164	0.001	0.165			29.6
121.0	0.085	0.025	0.179	0.001	0.180	0.180	0.155	29.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180		11.33	100E00		160E01	150E01	310E01
10.0	0.200			120E01				
20.0	0.260							
30.0	0.350							
50.0	0.450			100E00				
75.0	0.490							
100.0	0.670							
121.0	1.080			000E00		800E00	110E01	270E01

C-REF-NO 019
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0220

NO. DEPTHS 07
SOUNDING 0950
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		9.56	0.5	327		8.350	11.78	
10.0		8.73	0.7	329		8.230	11.51	
20.0		7.74	0.7	326		8.060	10.83	
30.0		7.32	1.0	331		7.970	10.90	
50.0		4.00	0.8	326		7.960	12.02	
75.0		3.94	0.7	331		7.940	11.73	
93.0		3.94	1.0	330		7.970	11.65	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.005	0.015	0.067	0.003	0.070	0.325	0.310	30.1
10.0	0.005	0.040	0.097	0.003	0.100			30.3
20.0	0.030	0.045	0.131	0.004	0.135			30.4
30.0	0.035	0.035	0.150	0.005	0.155			30.3
50.0	0.055	0.015	0.164	0.001	0.165	0.190	0.175	30.3
75.0	0.065	0.055	0.174	0.001	0.175			30.2
93.0	0.065	0.030	0.174	0.001	0.175	0.190	0.160	30.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.300	0.000	14.07	100E00	000E00	100E01	120E01	240E01
10.0	0.340			100E00				
20.0	0.440							
30.0	0.480							
50.0	0.470			000E00				
75.0	0.660							
93.0	0.730			200E00	000E00	520E01	140E01	330E01

C-REF-NO 019
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0321

NO. DEPTHS 03
SOUNDING 0130
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.60	0.2	336		8.290	10.42	
10.0		10.78	1.1	329			10.63	
13.0		10.74	0.9	331		8.310	10.67	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.005	0.050	0.036	0.004	0.040	0.325	0.275	26.6
10.0	0.005	0.070	0.056	0.004	0.060			26.7
13.0	0.005	0.050	0.062	0.003	0.065	0.340	0.290	26.4

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.300	0.001	11.44	160E02		380E01		960E03
10.0	0.350			250E02				
13.0	0.370			300E02	100E01	280E01	510E03	320E03

C-REF-NO 019
CONS. NO 012
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0425

NO. DEPTHS 03
SOUNDING 0170
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		14.22	1.7	329		8.350		
10.0		13.86	1.9	330		8.370		
16.0		10.71	1.6	334		8.230		

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.030	0.070	0.019	0.001	0.020	0.300	0.230	26.4
10.0	0.030	0.070	0.016	0.004	0.020			26.4
16.0	0.010	0.060	0.056	0.004	0.060	0.265	0.205	26.6

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.130	0.001	6.40	880E01	380E01	400E00	210E03	180E03
10.0	0.130			360E01				
16.0	0.330			600E00	000E00	200E00	240E03	200E03

C-REF-NO 019
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 078-48-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0523

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.07	1.2	328	1.9	8.370	10.38	0.050
10.0		12.69	1.9	330		8.260	10.47	
20.0		9.16	1.2	331		8.160	10.76	
29.0		7.74	0.9	332	1.2	8.070	10.70	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	DRG N	CL
1.0	0.020	0.040	0.041	0.004	0.045	0.265	0.225	26.2
10.0	0.015	0.060	0.046	0.004	0.050			26.2
20.0	0.015	0.050	0.101	0.004	0.105			26.3
29.0	0.020	0.030	0.136	0.004	0.140	0.225	0.195	26.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.130	0.001	7.29	240E01	110E02	200E00	130E03	200E03
10.0	0.140			160E01				
20.0	0.320							
29.0	0.460			110E01	320E01	000E00	800E02	

C-REF-NO 019
CONS. NO 014
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 078-50-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0630

NO. DEPTHS 08
SOUNDING 1146
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.09	0.6	333		8.380	11.10	
10.0		11.10	0.6	324		8.340	11.20	
20.0		10.19	0.7	324		8.160	10.90	
30.0		6.55	0.7	329		7.870	10.90	
50.0		5.15	0.6	330		7.860	10.80	
75.0		4.19	0.5	330		7.890	11.40	
100.0		4.03	0.5	331		7.900	11.10	
113.0		4.04	0.5	331		7.870	11.10	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.005	0.050	0.046	0.004	0.050	0.250	0.200	26.0
10.0	0.000	0.050	0.046	0.004	0.050			26.0
20.0		0.030	0.072	0.003	0.075			25.9
30.0		0.020	0.152	0.003	0.155			25.8
50.0		0.020	0.178	0.002	0.180	0.190	0.170	25.8
75.0		0.050	0.179	0.001	0.180			25.7
100.0		0.040	0.184	0.001	0.185			25.8
113.0		0.030	0.179	0.001	0.180			25.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.160	0.000	9.94	180E01		000E00	180E02	150E02
10.0	0.160			000E00				
20.0	0.210							
30.0	0.520							
50.0	0.670			260E01				
75.0	0.670							
100.0	0.830							
113.0	0.920			140E01		000E00	110E02	600E01

C-REF-NO 019
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT 43-30-00N
LON 078-53-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0739

NO. DEPTHS 08
SOUNDING 1390
BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.27	0.4	335		8.280	11.00	
10.0		11.25	0.5	335		8.320	11.10	
19.0		8.87	0.4	333		8.060	11.00	
29.0		4.57	0.4	337		7.830	11.90	
49.0		3.95	0.3	335		7.870	12.40	
73.0		3.90	0.3	339		7.880	12.40	
97.0		3.82	0.2	332		7.880	12.50	
133.0		3.75	0.3	333		7.860	11.60	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.047	0.003	0.050	0.260	0.240	26.1
10.0	0.000	0.040	0.047	0.003	0.050			26.2
19.0	0.000	0.030	0.098	0.002	0.100			26.0
29.0	0.040	0.020	0.169	0.001	0.170			25.0
49.0	0.055	0.020	0.169	0.001	0.170	0.130	0.110	25.0
73.0	0.050	0.020	0.169	0.001	0.170			24.9
97.0	0.055	0.020	0.169	0.001	0.170			25.0
133.0	0.075	0.010	0.179	0.001	0.180	0.140	0.130	25.0

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.120		10.24	000E00		100E00	270E01	190E01
10.0	0.130			000E00				
19.0	0.220							
29.0	0.380							
49.0	0.430			000E00				
73.0	0.410							
97.0	0.440							
133.0	1.130			000E00		000E00	200E01	230E01

C-REF-NO 019
CONS. NO 016
COUNTRY 18
INSTITUTE 22

LAT 43-35-00N
LON 078-55-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0828

NO. DEPTHS 08
SOUNDING 1342
BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.84	0.7	327	1.1	8.160	10.70	0.030
10.0		10.82	0.5	327		8.190	10.70	
20.0		10.57	0.5	327		8.190	10.90	
30.0		4.44	0.5	327		7.870	12.10	
50.0		3.98	0.4	327	0.5	7.880	12.30	0.050
75.0		3.95	0.4	329		7.870	12.40	
100.0		3.85	0.2	328		7.900	12.30	
132.0		3.78	0.3	335	0.7	7.870	11.70	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.040	0.082	0.003	0.085	0.200	0.160	26.2
10.0	0.000	0.050	0.082	0.003	0.085			26.3
20.0	0.000	0.030	0.077	0.003	0.080			26.5
30.0	0.020	0.050	0.179	0.001	0.180			26.0
50.0	0.050	0.020	0.174	0.001	0.175	0.160	0.140	25.9
75.0	0.055	0.050	0.174	0.001	0.175			25.8
100.0	0.070	0.030	0.174	0.001	0.175			25.9
132.0	0.080	0.020	0.179	0.001	0.180	0.175	0.155	26.0

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.300	0.001	4.86	100E00		300E00	154E02	150E02
10.0	0.260			300E00				
20.0	0.290							
30.0	0.480							
50.0	0.450			200E00				
75.0	0.450							
100.0	0.520							
132.0	1.140			000E00		000E00	240E01	210E01

C-REF-NO 019
CONS. NO 017
COUNTRY 18
INSTITUTE 22

LAT 43-39-00N
LON 078-57-00W

YEAR 1967
MONTH 10
DAY 18
TIME 0940

NO. DEPTHS 08
SOUNDING 1176
BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.11	0.4	320		8.210	11.00	
10.0		11.12	0.4	325		8.280	11.10	
20.0		8.21	0.3	327		8.010	11.10	
30.0		5.58	0.3	331		7.820	10.90	
50.0		4.38	0.2	329		7.850	11.80	
75.0		3.94	0.2	331		7.870	12.20	
100.0		3.82	0.2	330		7.850	11.70	
115.0		3.83	0.3	330		7.840	11.60	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.020	0.047	0.003	0.050	0.200	0.180	27.0
10.0	0.000	0.030	0.042	0.003	0.045			26.6
20.0	0.000	0.020	0.103	0.002	0.105			26.5
30.0	0.020	0.020	0.168	0.002	0.170			26.4
50.0	0.045	0.010	0.173	0.002	0.175	0.160	0.150	26.3
75.0	0.060	0.060	0.174	0.001	0.175			26.1
100.0	0.070	0.030	0.179	0.001	0.180			26.1
115.0	0.075	0.020	0.179	0.001	0.180	0.150	0.130	26.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.280	0.000	8.63	000E00		200E00	230E01	230E01
10.0	0.280			000E00				
20.0	0.330							
30.0	0.540							
50.0	0.560			100E00				
75.0	0.540							
100.0	0.880							
115.0	1.030			000E00		000E00		310E02

C-REF-NO 019
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-44-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1032

NO. DEPTHS 06
SOUNDING 0783
BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		12.66	0.3	324		8.220	10.20	
10.0		12.66	0.2	323		8.230	10.20	
20.0		12.66	0.2	323		8.200	10.20	
30.0		7.64	0.2	327		7.890	10.70	
50.0		5.51	0.1	327		7.840	11.40	
75.0		4.81	0.1	331		7.810	10.90	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.030	0.027	0.003	0.030	0.240	0.210	27.0
10.0	0.005	0.040	0.037	0.003	0.040			27.0
20.0	0.010	0.070	0.067	0.003	0.070			27.2
30.0	0.005	0.060	0.057	0.003	0.060			26.7
50.0	0.020	0.020	0.018	0.002	0.020	0.160	0.140	26.5
75.0	0.050	0.020	0.018	0.002	0.020	0.170	0.150	26.6

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.330		6.41	000E00		000E00	200E01	700E01
10.0	0.230			000E00				
20.0	0.260							
30.0	0.430							
50.0	0.540			100E00				
75.0	0.670							

C-REF-NO 019
CONS. NO 019
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 079-02-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1117

NO. DEPTHS 03
SOUNDING 0170
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		12.64	0.3	322	1.0	8.240	10.40	0.030
10.0		12.64	0.2	322		8.260	10.30	
15.0		12.40	0.4	325	0.9	8.240	10.30	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.070	0.032	0.003	0.035	0.200	0.130	27.2
10.0	0.000	0.070	0.032	0.003	0.035			27.0
15.0	0.005	0.050	0.037	0.003	0.040	0.190	0.140	27.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.170		6.41					
10.0	0.190							
15.0	0.210							

C-REF-NO 019
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 43-51-00N
LON 078-41-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1301

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	12.80	0.5	331		8.290	10.18	
10.0		12.82	0.7	319		8.280	10.10	
20.0		12.49	0.8	319		8.260	10.12	
28.0		12.49	0.8	320		8.220	10.20	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.075	0.037	0.003	0.040	0.210	0.135	27.0
10.0	0.000	0.075	0.037	0.003	0.040			26.9
20.0	0.000	0.160	0.042	0.003	0.045			27.0
28.0	0.000	0.075	0.037	0.003	0.040	0.190	0.115	26.9

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.200	0.002	6.52	200E00	000E00	000E00	230E01	240E01
10.0	0.200			000E00				
20.0	0.290							
28.0	0.300			000E00	000E00	000E00	420E01	210E01

C-REF-NO 019
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 43-53-00N
LON 078-32-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1400

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	12.95	0.6	331		8.250	10.08	
10.0		12.94	0.6	338		8.240	10.00	
17.0		12.96	0.6	329		8.250	10.11	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.065	0.032	0.003	0.035	0.230	0.165	27.1
10.0	0.000	0.120	0.032	0.003	0.035			26.9
17.0	0.000	0.100	0.032	0.003	0.035	0.220	0.120	27.0

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.230		7.29					
10.0	0.220							
17.0	0.190							

C-REF-NO 019
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 43-47-00N
LON 078-30-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1456

NO. DEPTHS 06
SOUNDING 0774
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	13.12	0.4	333		8.290	10.10	
10.0		13.12	0.4	326		8.290	10.08	
20.0		13.11	0.4	326		8.280	9.95	
30.0		7.85	0.3	331		7.950	9.95	
50.0		4.83	0.8	338		7.870	10.51	
75.0		4.79	0.7	332		7.860	10.63	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.065	0.037	0.003	0.040	0.230	0.165	26.5
10.0	0.005	0.110	0.037	0.003	0.040			26.5
20.0	0.005	0.080	0.032	0.003	0.035			26.5
30.0		0.035	0.148	0.002	0.150			26.2
50.0		0.085	0.194	0.001	0.195	0.160	0.075	26.1
75.0		0.065	0.189	0.001	0.190	0.170	0.105	26.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	0.002	6.40	000E00		000E00	110E01	440E01
10.0	0.170			000E00				
20.0	0.160							
30.0	0.450							
50.0	0.620			300E00				
75.0	0.620			100E00		000E00		230E01

C-REF-NO 019
CONS. NO 023
COUNTRY 18
INSTITUTE 22

LAT 43-43-00N
LON 078-29-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1604

NO. DEPTHS 08
SOUNDING 1072
BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	12.49	0.5	332		8.240	10.25	
10.0		12.31	1.0	326		8.250	10.36	
20.0		11.84	0.6	329		8.250	10.47	
30.0		6.21	0.5	333		7.960	11.15	
50.0		4.05	0.5	336		7.950	11.80	
75.0		3.88	0.6	336		7.900	11.64	
100.0		3.83	0.6	336		7.890	11.63	
105.0		3.85	0.6			7.890	11.60	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0			0.042	0.003	0.045	0.200		
10.0		0.080	0.042	0.003	0.045			
20.0		0.075	0.043	0.002	0.045			
30.0	0.005	0.055	0.153	0.002	0.155			
50.0	0.045	0.050	0.184	0.001	0.185	0.200	0.150	
75.0	0.065	0.065	0.189	0.001	0.190			
100.0	0.070	0.065	0.189	0.001	0.190			
105.0	0.065	0.050	0.184	0.001	0.185	0.375	0.325	

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.140	0.008	6.70	000E00		000E00	190E01	110E01
10.0	0.150			000E00				
20.0	0.150							
30.0	0.220							
50.0	0.380			000E00				
75.0	0.650							
100.0	0.750							
105.0	0.780			100E00		400E00	220E01	230E01

C-REF-NO 019
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 18
TIME 1750

NO. DEPTHS 18
SOUNDING 1438
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	11.71	0.3	331	1.2	8.290	10.52	0.040
4.0		11.72	0.5	329		8.290	10.50	
7.0		11.72	0.5	328		8.280	10.55	
10.0		11.73	0.5	329		8.280	10.55	
13.0		11.69	0.5	325		8.270	10.53	
16.0		11.71	0.6	329		8.250	10.55	
19.0		11.69	0.4	331		8.250	10.65	
22.0		11.68	0.6	331		8.200	10.60	
25.0		11.45	0.5	331		8.250	10.51	
28.0		8.98	0.7	331		8.090	10.58	
31.0		5.45	0.4	329		7.920	10.32	
34.0		4.58	0.4	325		7.860	11.83	
37.0		4.23	0.5			7.870	11.85	
40.0		4.03	0.7			7.860	12.15	
50.0		3.96	0.4	335	0.3	7.870	12.30	0.035
75.0		3.92	0.7	334		7.880	12.41	
100.0		3.83	0.5	334		7.910	12.52	
142.0		3.76	7.5	334	3.1	7.840	11.15	0.130

DEPTH	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.050	0.042	0.003	0.045	0.280	0.230	26.2
4.0	0.000	0.055	0.042	0.003	0.045	0.290	0.235	26.4
7.0	0.000	0.065	0.037	0.003	0.040	0.260	0.195	26.4
10.0	0.000	0.055	0.037	0.003	0.040	0.280	0.225	26.3
13.0	0.000	0.040	0.037	0.003	0.040	0.260	0.220	26.3
16.0	0.000	0.040	0.037	0.003	0.040	0.240	0.200	26.4
19.0	0.000	0.045	0.037	0.003	0.040	0.260	0.215	26.4
22.0	0.000	0.045	0.037	0.003	0.040	0.250	0.205	26.5
25.0	0.005	0.050	0.042	0.003	0.045	0.260	0.210	26.5
28.0	0.045	0.060	0.087	0.003	0.090	0.290	0.230	26.6
31.0	0.010	0.055	0.158	0.002	0.160	0.240	0.185	26.7
34.0	0.020	0.035	0.178	0.002	0.180	0.190	0.165	26.3
37.0	0.030	0.030	0.174	0.001	0.175	0.210	0.180	26.3
40.0	0.045	0.020	0.179	0.001	0.180	0.225	0.205	26.3
50.0	0.050	0.040	0.179	0.001	0.180	0.280	0.240	26.3
75.0	0.055	0.055	0.174	0.001	0.175	0.250	0.195	26.3
100.0	0.055	0.055	0.164	0.001	0.165	0.180	0.125	26.3
142.0	0.095	0.055	0.183	0.002	0.185	0.200	0.145	26.6

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	0.001	8.17	000E00		000E00	200E01	320E01
4.0	0.150							
7.0	0.160							
10.0	0.260			000E00				
13.0	0.220							
16.0	0.240							
19.0	0.170							
22.0	0.220							
25.0	0.210							
28.0	0.340							
31.0	0.350							
34.0	0.370							
37.0	0.400							
40.0	0.400							
50.0	0.400			000E00				
75.0	0.380							
100.0	0.390							
142.0	1.400						340E01	400E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	196.0	92.7	27.5	40.000	7.900	1.300	11.800
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
31.0							
34.0							
37.0							
40.0							
50.0	199.0	94.7	26.7	40.000	7.900	1.300	11.600
75.0							
100.0							
142.0	200.0	96.6	27.9	40.200	7.800	1.300	12.400

C-REF-NO 019
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 18
TIME 2000

NO. DEPTHS 09
SOUNDING 1744
BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	11.50	0.7	326		8.170	10.90	
10.0		11.47	0.5	325		8.280	11.00	
20.0		11.08	0.3	325		8.240	10.70	
30.0		5.83	0.3	327		7.950	11.30	
50.0		4.00	0.3	327		7.930	12.10	
75.0		3.95	0.2	327		7.940	12.20	
100.0		3.85	0.2	326		7.930	12.30	
150.0		3.78	0.5	330		7.910	12.10	
172.0		3.76	0.3	330		7.860	11.30	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.075	0.044	0.004	0.048			26.3
10.0	0.000	0.085	0.041	0.004	0.045			26.3
20.0	0.000	0.100	0.049	0.004	0.053			26.3
30.0	0.010	0.050	0.155	0.003	0.158			26.1
50.0	0.050	0.045	0.174	0.001	0.175			26.0
75.0	0.055	0.065	0.169	0.001	0.170			26.0
100.0	0.060	0.050	0.177	0.001	0.178			26.1
150.0	0.060	0.045	0.174	0.001	0.175			26.2
172.0	0.075	0.050	0.182	0.001	0.183			26.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.140	0.002	9.94	000E00		180E01	240E01	520E01
10.0	0.140			000E00				
20.0	0.140							
30.0	0.380							
50.0	0.430			100E01				
75.0	0.420							
100.0	0.430							
150.0	0.680							
172.0	1.300			000E00		500E00	180E01	700E01

C-REF-NO 019
CONS. NO 026
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-27-00W

YEAR 1967
MONTH 10
DAY 18
TIME 2053

NO. DEPTHS 05
SOUNDING 1482
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	11.83	0.4	325		8.330	10.70	
10.0		11.83	0.3	325		8.320	10.70	
20.0		11.19	0.5	325		8.280	10.60	
30.0		6.91	0.4	327		8.000	11.20	
50.0		3.90	0.3	331		7.970	12.40	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.000	0.050	0.048	0.005	0.053			26.1
10.0	0.000	0.050	0.045	0.005	0.050			26.1
20.0	0.000	0.050	0.054	0.004	0.058			26.2
30.0	0.035	0.055	0.152	0.003	0.155			26.0
50.0	0.055	0.045	0.177	0.001	0.178			25.9

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.140	0.001	9.94	200E00		000E00	190E01	330E01
10.0	0.140			000E00				
20.0	0.150							
30.0	0.350							
50.0	0.430			300E00				

C-REF-NO 019
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 43-24-00N
LON 078-26-00W

YEAR 1967
MONTH 10
DAY 18
TIME 2221

NO. DEPTHS 05
SOUNDING 0380
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.67	0.6	324		8.120	10.60	
10.0		11.66	0.8	326		8.180	10.70	
20.0		11.63	0.6	326		8.210	10.60	
30.0		10.11	0.6	327		8.160	10.80	
36.0		8.02	0.5	328		7.980	10.90	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.015	0.060		0.005		0.275	0.215	
10.0	0.010	0.080	0.070	0.005	0.075			
20.0	0.010	0.065	0.065	0.005	0.070			26.1
30.0	0.010	0.055	0.085	0.005	0.090			26.2
36.0	0.020	0.050	0.140	0.005	0.145	0.230	0.180	26.2

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.170	0.001	11.12		740E01	700E00	780E01	210E02
10.0	0.170			270E01				
20.0	0.170							
30.0	0.270							
36.0	0.440			400E00	400E00	600E00	860E01	100E02

C-REF-NO 019
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 19
TIME 0020

NO. DEPTHS 03
SOUNDING 0180
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.36	0.7	331	2.0	8.280	10.90	
10.0		10.39	0.7	328		8.290	10.90	
16.0		10.38	1.0	328	1.7	8.320	11.00	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.060			0.100	0.275	0.215	26.2
10.0								
16.0	0.010	0.070			0.095	0.300	0.230	26.2

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.250	0.002	9.06					
10.0				200E00				
16.0	0.240			400E00	000E00	000E00	370E01	740E01

C-REF-NO 019
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 19
TIME 0131

NO. DEPTHS 08
SOUNDING 1348
BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.84	0.6	324		8.430	10.60	0.070
10.0		11.85	0.3	322		8.430	10.70	
20.0		10.84	0.3	322		8.320	10.40	
30.0		7.76	0.3	324		8.070	10.60	
50.0		4.07	0.3	327		8.080	12.30	
75.0			0.3	327		8.020	12.20	
100.0		3.78	0.2	329		8.030	12.00	
133.0		3.95	0.6	330		7.920	10.20	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0		0.050	0.052	0.003	0.055	0.270	0.220	26.5
10.0		0.055	0.047	0.003	0.050			26.6
20.0		0.045	0.076	0.004	0.080			26.3
30.0	0.020	0.035	0.155	0.003	0.158			26.2
50.0	0.045	0.030	0.184	0.001	0.185	0.240	0.210	26.0
75.0	0.062	0.050	0.184	0.001	0.185			26.0
100.0	0.096	0.035	0.184	0.001	0.185			26.2
133.0		0.025	0.209	0.001	0.210	0.240	0.215	26.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	0.002	9.06	300E00		300E00	130E01	450E01
10.0	0.190			000E00				
20.0	0.210							
30.0	0.350							
50.0	0.380			000E00				
75.0	0.400							
100.0	0.800							
133.0	1.400			500E00		100E01	180E01	330E01

C-REF-NO 019
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 43-34-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 19
TIME 0333

NO. DEPTHS 09
SOUNDING 1753
BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.61	0.3	327		8.370	10.40	
10.0		11.57	0.5	326		8.380	10.33	
20.0		11.56	0.4	334		8.380	10.37	
30.0		10.34	0.4	332		8.370	11.85	
50.0		4.14	0.6	334		8.100	10.47	
75.0		3.94	0.8	331		8.110	12.14	
100.0		3.87	0.7	331		8.130	12.20	
150.0		3.76	0.8	333		8.110	11.88	
173.0		4.02	0.5	332		8.100	12.14	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0		0.050	0.062	0.003	0.065	0.375	0.325	26.5
10.0		0.055	0.060	0.003	0.063			26.6
20.0		0.050	0.057	0.003	0.060			26.5
30.0		0.040	0.060	0.003	0.063			26.7
50.0	0.040	0.030	0.189	0.001	0.190	0.350	0.320	26.3
75.0	0.050		0.184	0.001	0.185			26.1
100.0	0.053	0.035	0.184	0.001	0.185			26.2
150.0	0.064	0.045	0.184	0.001	0.185			26.4
173.0	0.052	0.040	0.174	0.001	0.175	0.240	0.200	26.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	0.000	7.29	800E00		200E00	250E01	380E01
10.0	0.150			200E00				
20.0	0.160							
30.0	0.210							
50.0	0.420			000E00				
75.0	0.440							
100.0	0.450							
150.0	0.850							
173.0	0.460			400E00		100E00	210E01	420E01

C-REF-NO 019	LAT 43-46-00N	YEAR 1967	NO. DEPTHS 08
CONS. NO 031	LON 078-00-00W	MONTH 10	SOUNDING 1060
COUNTRY 18		DAY 20	BT SLIDE NO 031
INSTITUTE 22		TIME 1309	

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	10.29	0.2	325		7.970	10.60	
10.0		10.33	0.2	328		7.970	10.33	
20.0		10.22	0.2	328		8.010	10.38	
30.0		4.84	0.3	336		7.860	11.58	
50.0		4.43	0.4	336		7.780	11.43	
75.0		3.99	0.4	339		7.800	12.02	
100.0		3.82	0.3	343		7.800	11.60	
104.0		3.82	0.8	337		7.760	11.62	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0		0.060	0.090	0.003	0.093	0.225	0.165	27.1
10.0			0.088	0.002	0.090			27.5
20.0			0.088	0.002	0.090			27.5
30.0	0.052	0.050	0.189	0.001	0.190			27.3
50.0	0.060	0.050	0.192	0.001	0.193	0.200	0.150	27.5
75.0	0.055		0.184	0.001	0.185			27.4
100.0	0.074	0.060	0.194	0.001	0.195			27.3
104.0	0.072	0.040	0.188	0.002	0.190	0.225	0.185	27.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.210	0.002	5.00					
10.0	0.210			100E00				
20.0	0.230							
30.0	0.450							
50.0	0.570			000E00				
75.0	0.400							
100.0	0.850							
104.0	0.860						230E02	750E01

C-REF-NO 019
CONS. NO 032
COUNTRY 18
INSTITUTE 22

LAT 43-57-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 20
TIME 1456

NO. DEPTHS 03
SOUNDING 0180
BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	9.02	0.4	322	1.9	7.900	9.80	0.055
10.0		7.40	1.0	336		7.850	9.99	
16.0		7.39	1.0		1.6	7.800	9.92	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.025	0.060	0.132	0.003	0.135	0.280	0.220	
10.0	0.040	0.065	0.171	0.002	0.173			
16.0	0.040	0.065	0.193	0.002	0.195	0.240	0.175	

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.510		6.11					
10.0	0.610							
16.0	0.610							

C-REF-NO 019
CONS. NO 033
COUNTRY 18
INSTITUTE 22

LAT 43-56-00N
LON 077-39-00W

YEAR 1967
MONTH 10
DAY 20
TIME 1651

NO. DEPTHS 04
SOUNDING 0290
BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	9.98	0.7	333		7.950	9.94	
10.0		9.29	0.8	329		7.980	10.15	
20.0		5.41	0.8	333		7.900	10.60	
28.0		5.35	0.9	331		7.850	10.70	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.065	0.105	0.003	0.108	0.260	0.195	27.2
10.0	0.020	0.050	0.111	0.002	0.113			27.0
20.0	0.050	0.040	0.187	0.001	0.188			26.8
28.0	0.056	0.045	0.184	0.001	0.185	0.250	0.205	26.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.400		4.93	220E01	340E01	000E00	140E01	150E01
10.0	0.440			390E01				
20.0	0.660							
28.0	0.660			310E01	000E00	000E00	240E01	230E01

C-REF-NO 019
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 43-54-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 20
TIME 1809

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	10.91	1.1	326		7.970	10.12	
10.0		10.86	1.5	325		8.100	10.24	
19.0		9.02	1.2	328		8.000	10.15	
28.0		6.52	1.5	332		7.830	10.22	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.060	0.067	0.003	0.070	0.275	0.215	27.3
10.0	0.010	0.055	0.064	0.003	0.067			27.5
19.0	0.040	0.035	0.126	0.002	0.128			27.6
28.0	0.060	0.030	0.179	0.001	0.180	0.240	0.210	27.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.310		6.11	110E01	000E00	000E00	180E01	120E01
10.0	0.310			100E00				
19.0	0.480							
28.0	0.650			400E00	000E00	000E00	400E00	180E01

C-REF-NO 019
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 20
TIME 1914

NO. DEPTHS 06
SOUNDING 0555
BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	10.37	0.4	331		7.960	9.95	
10.0		10.34	0.4	328		8.010	10.05	
20.0		8.89	0.7	328		7.970	10.10	
30.0		6.71	0.8	327		7.870	10.48	
50.0		4.94	0.9	331		7.850	10.92	
53.0		4.95	1.0	331		7.830	11.10	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.030	0.060	0.110	0.003	0.113	0.275	0.215	27.4
10.0	0.035	0.060	0.105	0.003	0.108			27.5
20.0	0.040	0.040	0.126	0.002	0.128			27.5
30.0	0.065	0.070	0.168	0.002	0.170			27.5
50.0	0.075	0.030	0.192	0.001	0.193	0.225	0.195	27.5
53.0	0.075	0.020		0.001	0.190	0.190	0.170	27.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.440	0.000	4.93	300E00		000E00	160E01	180E01
10.0	0.430			800E00				
20.0	0.480							
30.0	0.600							
50.0	0.620							
53.0	0.630			700E00		100E00	140E01	130E01

C-REF-NO 019
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 20
TIME 2054

NO. DEPTHS 08
SOUNDING 1226
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	6.0	11.86	0.3	327	1.0	8.050	10.10	0.040
10.0		11.84	0.3	324		8.030	10.10	
20.0		11.64	0.4	327		8.030	10.00	
30.0		6.71	0.3	331		7.870	11.40	
50.0		4.21	0.2	332	0.5	7.840	12.10	
75.0		3.90	0.3	330		7.830	12.30	
100.0		3.81	0.2	332		7.820	12.10	
120.0		3.76	1.4	335	1.1	7.740	10.80	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.050	0.080	0.003	0.083	0.350	0.300	
10.0	0.020	0.060	0.080	0.003	0.083			
20.0	0.020	0.050	0.080	0.003	0.083			
30.0	0.040	0.050	0.163	0.002	0.165			
50.0	0.060	0.035	0.194	0.001	0.195			
75.0								
100.0	0.075	0.035	0.197	0.001	0.198			
120.0	0.120	0.035	0.203	0.002	0.205	0.190	0.155	

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.250	0.000	6.11	300E00		000E00	120E01	300E01
10.0	0.250			200E00				
20.0	0.260							
30.0	0.360							
50.0	0.420			100E00				
75.0								
100.0	0.540							
120.0	1.500			300E00		150E01	170E01	170E01

C-REF-NO 019
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 20
TIME 2243

NO. DEPTHS 09
SOUNDING 1720
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.31	0.6	331		8.020	10.70	
10.0		10.23	0.3	326		8.040	10.70	
20.0		10.10	0.3	328		8.020	10.70	
30.0		10.10	0.4	327		8.010	10.60	
50.0		4.33	0.2	331		7.820	11.90	
75.0		3.92	0.3	331		7.840	12.20	
100.0		3.83	0.1	331		7.810	12.40	
150.0		3.71	0.5	331		7.790	11.80	
170.0		3.71	10.0	331		7.760	11.30	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.200	0.116	0.002	0.118	0.800	0.600	27.2
10.0	0.010	0.060	0.103	0.002	0.105			27.0
20.0	0.010	0.040	0.101	0.002	0.103			27.1
30.0	0.010	0.030	0.098	0.002	0.100			27.2
50.0	0.070	0.030	0.199	0.001	0.200	0.150	0.120	26.9
75.0	0.080	0.030	0.202	0.001	0.203			26.9
100.0	0.075	0.020	0.194	0.001	0.195			27.0
150.0	0.095	0.030	0.196	0.002	0.198			27.1
170.0	0.150	0.050	0.198	0.007	0.205	0.250	0.200	27.7

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220	0.001	4.93	210E01		160E01	230E01	620E01
10.0	0.220							
20.0	0.220							
30.0	0.220							
50.0	0.420			120E01				
75.0	0.460							
100.0	0.460							
150.0	0.980							
170.0	1.500			160E01			220E01	290E01

C-REF-NO 019
CONS. NO 038
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 21
TIME 0010

NO. DEPTHS 05
SOUNDING 0340
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		10.93	0.9	329		8.140	10.70	
10.0		10.94	0.8	327		8.100	10.70	
20.0		10.88	1.0	328		8.050	10.60	
29.0		10.54	1.2	327		8.040	10.50	
31.0		10.43	1.7	326		8.060	10.50	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.060	0.071	0.004	0.075	0.300	0.240	26.8
10.0	0.020	0.070	0.066	0.004	0.070			26.8
20.0	0.020	0.050	0.066	0.004	0.070			26.8
29.0	0.020	0.060	0.071	0.004	0.075			26.7
31.0	0.020	0.050	0.071	0.004	0.075	0.325	0.275	26.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220	0.007	8.76	200E00	000E00	000E00	590E01	310E01
10.0	0.220			100E00				
20.0	0.220							
29.0	0.230							
31.0	0.250			300E00	800E00	560E01	450E01	470E01

C-REF-NO 019
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 21
TIME 0310

NO. DEPTHS 04
SOUNDING 0270
BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.19	0.8	324	3.4	8.090	10.50	
10.0		11.22	0.7	327		8.170	10.50	
20.0		10.99	3.5	328		8.110	10.40	
25.0		10.99	4.4	328	2.0	8.090	10.30	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.040	0.060	0.076	0.004	0.080	0.250	0.190	26.8
10.0	0.020	0.050	0.074	0.004	0.078			27.0
20.0	0.060	0.040	0.092	0.006	0.098			27.1
25.0	0.060	0.035	0.093	0.007	0.100	0.240	0.205	27.2

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220	0.004	6.70	740E01		800E00	510E02	250E02
10.0	0.220							
20.0	0.400							
25.0	0.440					660E01		

C-REF-NO 019
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 21
TIME 0519

NO. DEPTHS 20
SOUNDING 2196
BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.43	0.2	307	1.8	8.140	10.32	0.030
4.0		11.43	0.3	309		8.150	10.26	
7.0		11.43	0.3	309		8.210	10.20	
10.0		11.46	0.3	311		8.140	10.30	
13.0		11.42	0.3	315		8.120	10.18	
16.0		11.44	0.5	311		8.110	10.18	
19.0		11.42	0.4	311		8.110	10.40	
22.0		11.42	0.5	311		8.160	10.30	
25.0		11.42	0.5	311		8.170	10.22	
28.0		11.44	0.6	310		8.170	10.35	
31.0		11.36	0.2	310		8.140		
34.0		11.29	0.2	311		8.210	10.27	
37.0		7.65	0.2	316		8.060	10.85	
40.0		5.20	0.2	317		7.950	11.56	
50.0		4.08	0.3	316	0.4	7.950	12.19	0.065
75.0		3.93	0.3	319		7.970	12.31	
100.0		3.85	0.2	320		7.950	12.30	
150.0		3.80	0.2	319		7.960	12.50	
200.0		3.74	0.4	322		7.900	11.40	
217.0		3.70	0.6	322	0.9	7.920	11.48	

DEPTH	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N	CL
1.0	0.005	0.060	0.075	0.003	0.078	0.240	0.180	26.5
4.0	0.005	0.050	0.072	0.003	0.075	0.210	0.160	26.6
7.0	0.005	0.060	0.072	0.003	0.075	0.275	0.215	26.4
10.0	0.005	0.040	0.070	0.003	0.073	0.300	0.260	26.5
13.0	0.010	0.040	0.070	0.003	0.073	0.225	0.185	26.5
16.0	0.005	0.040	0.070	0.003	0.073	0.200	0.160	26.5
19.0	0.005	0.050	0.070	0.003	0.073	0.300	0.250	26.4
22.0	0.005	0.050	0.070	0.003	0.073	0.200	0.150	26.6
25.0	0.005	0.060	0.067	0.003	0.070	0.225	0.165	26.6
28.0	0.020	0.050	0.067	0.003	0.070	0.330	0.280	26.9
31.0	0.005	0.020	0.075	0.003	0.078	0.250	0.230	26.7
34.0	0.005	0.040	0.077	0.003	0.080	0.260	0.220	26.8
37.0	0.015	0.020	0.142	0.003	0.145	0.210	0.190	26.7
40.0	0.040	0.080	0.194	0.001	0.195	0.220	0.140	26.6
50.0	0.060	0.030	0.197	0.001	0.198	0.700	0.670	26.6
75.0	0.060	0.030	0.184	0.001	0.185	0.260	0.230	26.6
100.0	0.060	0.020	0.184	0.001	0.185	0.190	0.170	26.6
150.0	0.060	0.020	0.184	0.001	0.185	0.150	0.130	26.8
200.0	0.090	0.040	0.207	0.001	0.208	0.210	0.170	27.3
217.0	0.100	0.040	0.204	0.001	0.205	0.200	0.160	27.4

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.160		5.81	300E00		500E00	500E00	330E01
4.0	0.160							
7.0	0.160							
10.0	0.180			000E00				
13.0	0.190							
16.0	0.180							
19.0	0.200							
22.0	0.250							
25.0	0.220							
28.0	0.210							
31.0	0.130							
34.0	0.140							
37.0	0.240							
40.0	0.330							
50.0	0.420			500E00				
75.0	0.430							
100.0	0.430							
150.0	0.430							
200.0	1.300							
217.0	1.300			900E00		000E00	360E01	610E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	193.0	90.8	27.9	40.000	7.900	1.300	12.400
4.0							
7.0							
10.0							
13.0							
16.0							
19.0							
22.0							
25.0							
28.0							
31.0							
34.0							
37.0							
40.0							
50.0	196.0	94.3	27.7	40.200	7.800	1.400	12.200
75.0							
100.0							
150.0							
200.0							
217.0	198.0	96.1	26.9	42.000	7.900	1.300	12.200

C-REF-NO 019
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 43-41-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 21
TIME 0850

NO. DEPTHS 08
SOUNDING 1182
BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		11.25	0.2	311	1.1	8.070	9.92	0.030
10.0		11.26	0.5	313		8.080	9.93	
20.0		11.20	0.6	321		8.100	10.05	
30.0		8.34	0.7	318		8.040	10.67	
50.0		5.30	0.9	319	0.4	7.980	11.65	0.035
75.0		3.97	0.5	319		7.970	12.18	
100.0		3.95	1.0	331		7.900	11.03	
116.0		3.90	1.2	329	1.5	7.860	10.91	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.040	0.099	0.004	0.103			26.5
10.0	0.020	0.050	0.097	0.003	0.100			26.5
20.0	0.020	0.040	0.092	0.003	0.095			26.3
30.0	0.025	0.050	0.148	0.002	0.150			25.9
50.0	0.035	0.040	0.189	0.001	0.190	0.225	0.185	26.4
75.0	0.055	0.040	0.204	0.001	0.205			25.9
100.0	0.085	0.050	0.214	0.001	0.215			26.4
116.0	0.085	0.020	0.209	0.001	0.210			27.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.410	0.005	5.52	300E00		100E00	200E01	350E01
10.0	0.390			200E00				
20.0	0.440							
30.0	0.370							
50.0	0.370			100E00				
75.0	0.440							
100.0	1.000							
116.0	1.020			000E00		200E00	130E01	270E01

C-REF-NO 019
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1022

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		12.65	0.8	311	2.2	8.190	9.60	0.045
10.0		12.64	1.1	310		8.190	9.67	
12.0		12.66	1.2	309	2.1	8.210	9.71	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.040	0.051	0.004	0.055	0.390	0.350	27.2
10.0	0.020	0.050	0.051	0.004	0.055			27.2
12.0	0.020	0.050	0.049	0.004	0.053	0.260	0.210	27.4

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.420	0.005	5.81	000E00		100E00	350E01	250E01
10.0	0.420							
12.0	0.420			300E00		000E00	170E01	150E01

C-REF-NO 019
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1227

NO. DEPTHS 05
SOUNDING 0400
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.5	12.38	0.5	324		8.100	9.90	
10.0		12.37	0.6	328		8.110	9.70	
20.0		12.34	0.4	328		8.170	9.90	
30.0		11.26	0.7	328		8.120	9.80	
40.0		6.37	2.7	335		7.870	10.20	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.060	0.069	0.004	0.073	0.250	0.190	26.6
10.0	0.015	0.040	0.066	0.004	0.070			26.7
20.0	0.020	0.050	0.066	0.004	0.070			26.8
30.0	0.025	0.040	0.086	0.004	0.090			26.7
40.0	0.090	0.040	0.187	0.003	0.190			26.7

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.190	0.005	4.93	400E00		000E00	160E01	270E01
10.0	0.190			000E00				
20.0	0.220							
30.0	0.360							
40.0	0.770			000E00		000E00	230E01	200E01

C-REF-NO 019
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1400

NO. DEPTHS 08
SOUNDING 1110
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	13.09	0.2	331		8.210	9.70	
10.0		13.09	0.1	328		8.180	9.80	
20.0		13.12	0.1	331		8.220	9.80	
30.0		13.11	0.1	331		8.250	9.70	
50.0		9.44	0.2	331		7.970	9.80	
75.0		4.26	0.2	337		7.890	11.10	
100.0		4.08	0.3	336		7.850	10.90	
109.0		4.10	0.4	336		7.870	10.90	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.050	0.051	0.004	0.055	0.275	0.225	26.6
10.0	0.010	0.040	0.049	0.004	0.053			26.8
20.0	0.010	0.050	0.046	0.004	0.050			26.9
30.0	0.010	0.040	0.046	0.004	0.050			27.0
50.0	0.030	0.040	0.127	0.003	0.130	0.260	0.220	26.8
75.0	0.075	0.030	0.209	0.001	0.210			26.0
100.0	0.088	0.020	0.212	0.001	0.213			26.0
109.0	0.090	0.030	0.211	0.002	0.213	0.210	0.180	26.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.120		4.93	200E00		000E00	290E01	250E01
10.0	0.130			200E00				
20.0	0.140							
30.0	0.130							
50.0	0.280			300E00				
75.0	0.620							
100.0	0.820							
109.0	0.850			000E00		500E00	580E01	270E01

C-REF-NO 019
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-32-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1538

NO. DEPTHS 09
SOUNDING 1539
BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.5	12.08	0.2	329		8.170	9.90	
10.0		12.07	0.2	327		8.200	10.10	
20.0		12.08	0.4	326		8.220	10.20	
30.0		12.07	0.3	327		8.230	10.10	
50.0		9.03	0.3	331		7.990	10.30	
75.0		4.15	0.3	332		7.910	11.70	
100.0		3.92	0.3	332		7.890	11.50	
150.0		3.98	0.4	333		7.860	11.20	
152.0		4.00	0.4	333		7.860	11.10	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.005	0.040	0.065	0.003	0.068	0.260	0.220	26.2
10.0	0.005	0.050	0.060	0.003	0.063			26.1
20.0	0.005	0.040	0.062	0.003	0.065			26.1
30.0	0.005	0.040	0.057	0.003	0.060			26.2
50.0	0.060	0.040	0.137	0.003	0.140	0.225	0.185	25.6
75.0	0.050	0.030	0.212	0.001	0.213			25.5
100.0	0.070	0.060	0.212	0.001	0.213			25.6
150.0	0.080	0.050	0.213	0.002	0.215			25.5
152.0	0.080	0.040	0.212	0.001	0.213	0.175	0.135	25.5

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.160	0.001	5.22	140E01		000E00	300E01	400E00
10.0	0.160			400E00				
20.0	0.170							
30.0	0.180							
50.0	0.410			300E00				
75.0	0.490							
100.0	0.780							
150.0	0.970							
152.0	0.960			200E00		000E00	220E01	160E01

C-REF-NO 019
CONS. NO 046
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1544

NO. DEPTHS 05
SOUNDING 0370
BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	3.0	11.43	0.5	326		8.090	10.20	
10.0		11.42	1.1	326		8.090	10.20	
20.0		11.41	0.8	331		8.170	10.30	
30.0		11.43	1.0	330		8.130	10.20	
36.0		11.40	0.9	330		8.150	10.20	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.050	0.066	0.004	0.070	0.325	0.275	25.8
10.0	0.010	0.050	0.064	0.004	0.068			25.8
20.0	0.010	0.050	0.064	0.004	0.068			25.9
30.0	0.010	0.050	0.061	0.004	0.065			26.2
36.0	0.010	0.040	0.059	0.004	0.063	0.250	0.210	26.1

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220		5.81					
10.0	0.220			220E01				
20.0	0.240							
30.0	0.250							
36.0	0.230			210E01	200E01	000E00	320E02	930E01

C-REF-NO 019
CONS. NO 047
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 076-21-00W

YEAR 1967
MONTH 10
DAY 21
TIME 1836

NO. DEPTHS 05
SOUNDING 0354
BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	4.0	13.55	0.6	342	1.7	8.170	9.58	0.045
10.0		13.54	0.7	342		8.170	9.76	
20.0		13.56	0.6	339		8.150	9.42	
30.0		13.55	0.9	339		8.150	9.60	
32.0		13.53	0.7	339	1.5	8.160	9.60	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.060	0.045	0.005	0.050	0.300	0.240	29.8
10.0	0.010	0.110	0.045	0.005	0.050			29.7
20.0	0.015	0.080	0.040	0.005	0.045			29.8
30.0	0.015	0.080	0.048	0.005	0.053			29.7
32.0	0.015	0.060	0.040	0.005	0.045	0.315	0.255	29.9

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.210	0.001	5.22	600E00			540E01	200E01
10.0	0.360			500E00				
20.0	0.310							
30.0	0.480							
32.0	0.320			000E00	000E00		340E01	120E01

C-REF-NO 019
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-15-00W

YEAR 1967
MONTH 10
DAY 21
TIME 2012

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	5.0	13.63	0.7	330	1.1	8.220	9.50	0.050
10.0		13.60	0.8	327		8.220	9.68	
20.0		13.62	0.8	327		8.230	9.68	
28.0		13.62	0.8	330	1.8	8.220	9.80	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.010	0.060	0.038	0.005	0.043	0.260	0.200	27.8
10.0	0.010	0.050	0.035	0.005	0.040			27.7
20.0	0.010	0.040	0.035	0.005	0.040			27.7
28.0	0.015	0.040	0.035	0.005	0.040	0.275	0.235	27.8

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.210	0.000	4.93	100E00			230E01	190E01
10.0	0.250			200E00				
20.0	0.220							
28.0	0.240			000E00	900E00		400E01	290E01

C-REF-NO 019
CONS. NO 049
COUNTRY 18
INSTITUTE 22

LAT 43-50-00N
LON 076-22-00W

YEAR 1967
MONTH 10
DAY 21
TIME 2141

NO. DEPTHS 05
SOUNDING 0360
BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0	2.5	13.29	0.0	334		8.210	9.57	
10.0		13.28	1.3	331		8.200	9.64	
20.0		13.27	1.1	327		8.210	9.60	
30.0		13.17	0.8	328		8.180	9.50	
33.0		12.77	0.8	328		8.160	9.69	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.050		0.004	0.040	0.300	0.250	27.4
10.0	0.020	0.050		0.004	0.040			27.3
20.0	0.020	0.040		0.003	0.040			27.3
30.0	0.020	0.050		0.003	0.040			27.3
33.0	0.020	0.050		0.003	0.045	0.275	0.225	27.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.260	0.001	5.81	000E00		000E00	270E01	200E01
10.0	0.250							
20.0	0.260							
30.0	0.280							
33.0	0.320							

C-REF-NO 019
CONS. NO 050
COUNTRY 18
INSTITUTE 22

LAT 43-55-00N
LON 076-15-00W

YEAR 1967
MONTH 10
DAY 21
TIME 2247

NO. DEPTHS 04
SOUNDING 0250
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	O2 W	T PO4
1.0		13.21	0.1	327	3.0	8.200	9.70	0.045
10.0		13.25	0.8	321		8.250	9.72	
20.0		13.26	0.7	321		8.250	9.67	
23.0		13.25	0.7	321	2.4	8.250	9.69	

DEPTH	R PO4	NH3	NO3NF	NO2NF	T NO3	TKJ N	ORG N	CL
1.0	0.020	0.050	0.030	0.003	0.033	0.325	0.275	27.3
10.0	0.020	0.040	0.030	0.003	0.033			27.3
20.0	0.015	0.040	0.027	0.003	0.030			27.3
23.0	0.015	0.040	0.025	0.003	0.028	0.325	0.285	27.3

DEPTH	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.230	0.000	5.81					
10.0	0.250			100E00				
20.0	0.240							
23.0	0.280			500E00	600E00	000E00	330E01	250E01

CRUISE 67 - 021, October 28 - November 2

C-REF-NO 021
CONS. NO 001
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 079-39-00W

YEAR 1967
MONTH 10
DAY 28
TIME 2221

NO. DEPTHS 06
SOUNDING 0549
BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.09	0.3	330	1.0	7.950	1.6	10.80
10.0		8.12	0.4	334		8.050		10.90
20.0		8.08	0.4	327		8.030		10.80
30.0		7.79	0.4	329		8.020		10.90
50.0		4.81	1.4		3.3	7.840		10.50
53.0		4.80	1.6	332	3.5	7.810	2.4	10.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.042	0.010	0.048	0.156	0.004	0.160	0.340	.0.292
10.0		0.010	0.070	0.121	0.004	0.125		
20.0		0.010	0.066	0.116	0.004	0.120		
30.0		0.010	0.066	0.121	0.004	0.125		
50.0	0.077	0.020	0.040	0.178	0.002	0.180	0.235	
53.0		0.045	0.058	0.163	0.002	0.165	0.280	0.222

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.8	0.410	0.007	3.13	000E00	000E00	000E00	110E01
10.0	27.8	0.420			000E00			
20.0	27.8	0.440						
30.0	27.7	0.500						
50.0	27.6	1.000			000E00			
53.0	27.6	1.040			200E00	200E00	000E00	300E01

DEPTH	SPC 35
1.0	500E00
10.0	
20.0	
30.0	
50.0	
53.0	380E01

C-REF-NO 021
CONS. NO 002
COUNTRY 18
INSTITUTE 22

LAT 43-13-00N
LON 079-24-00W

YEAR 1967
MONTH 10
DAY 28
TIME 2347

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.84	0.6	317	2.1	8.170		10.90
10.0		8.88	0.7	322		8.170		11.00
17.0		8.86	0.6	321	2.0	8.180		10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.032	0.005	0.028	0.111	0.004	0.115	0.260	0.232
10.0		0.010	0.040	0.106	0.004	0.110		
17.0		0.005	0.025	0.106	0.004	0.110	0.360	0.110

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.280		6.52				
10.0	26.4	0.280						
17.0	26.5	0.290						

DEPTH	SPC 35
1.0	
10.0	
17.0	

C-REF-NO 021
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 079-28-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0053

NO. DEPTHS 17
SOUNDING 0832
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.28	0.4	327	0.9	8.100	1.0	10.70
4.0		8.30	0.3	324		8.130		11.00
7.0		8.31	0.4	322		8.080		11.00
10.0		8.32	0.5	326		8.100		11.00
13.0		8.30	0.3	324		8.110		11.10
16.0		8.32	0.3	322		8.090		11.10
19.0		8.21	0.3	324		8.120		10.90
22.0		8.23	0.3	323		8.030		11.20
25.0		8.21	0.3			8.040		11.10
28.0		8.23	0.3			8.030		10.90
31.0		8.23	0.3					10.90
34.0		8.26	0.2	328				10.80
37.0		8.26	0.3	332				10.90
40.0		8.24	0.2	319				11.10
50.0		7.95	0.9	327	0.9			10.70
75.0		4.49	1.0	327				10.80
81.0		4.42	1.2	325	2.1		2.1	11.00

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.031	0.010	0.030	0.132	0.003	0.135	0.250	0.220
4.0		0.010	0.044	0.123	0.002	0.125	0.240	0.196
7.0		0.005	0.030	0.117	0.003	0.120	0.225	0.195
10.0		0.010	0.030	0.112	0.003	0.115	0.340	0.310
13.0		0.010	0.044	0.107	0.003	0.110	0.210	0.166
16.0		0.010	0.026	0.107	0.003	0.110	0.260	0.234
19.0		0.015	0.034	0.102	0.003	0.105	0.270	0.236
22.0		0.010	0.030	0.107	0.003	0.110	0.290	0.260
25.0		0.010	0.030	0.102	0.003	0.105	0.220	0.190
28.0		0.030	0.040	0.102	0.003	0.105	0.260	0.220
31.0		0.015	0.044	0.102	0.003	0.105		
34.0		0.005	0.024	0.097	0.003	0.100		
37.0		0.015	0.034	0.092	0.003	0.095		
40.0		0.015	0.054	0.092	0.003	0.095		
50.0	0.024	0.020	0.032	0.097	0.003	0.100	0.225	0.193
75.0		0.060	0.028	0.134	0.001	0.135	0.200	0.172
81.0	0.062	0.060	0.032	0.134	0.001	0.135	0.240	0.208

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.350	0.003	5.70				
4.0	27.2	0.370						
7.0	27.2	0.350						
10.0	27.2	0.370			000E00			
13.0	27.1	0.360						
16.0	27.1	0.370						
19.0	27.2	0.380						
22.0	27.1	0.370						
25.0	27.1	0.390						
28.0	27.0	0.440						
31.0	27.8	0.350						
34.0	27.2	0.390						
37.0	27.1	0.380						
40.0	27.2	0.420						
50.0	27.2	0.430			000E00			
75.0	27.0	0.900						
81.0	27.1	0.900			200E00		000E00	470E01

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		192.0	93.7	26.8	41.600	7.700	1.300	12.400
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0		190.0	95.2	27.5	41.600	7.700	1.400	12.200
75.0								
81.0	210E01	191.0	96.1	26.9	41.600	7.700	1.400	12.800

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.047	0.025	0.003	0.001	0.000
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0	0.000	0.000	0.000	0.014	0.015	0.002	0.002	0.000
75.0								
81.0	0.000	0.000	0.000	0.000	0.009	0.002	0.002	0.002

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.004	0.180	0.008
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
31.0			
34.0			
37.0			
40.0			
50.0	0.003	0.185	0.008
75.0			
81.0	0.002	0.175	0.008

C-REF-NO 021
CONS. NO 004
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 079-32-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0232

NO. DEPTHS 07
SOUNDING 0938
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		5.72	0.4	322				11.00
10.0		5.74	0.2	322				11.10
20.0		5.73	0.2	322				11.20
30.0		5.70	0.2	322				11.50
50.0		5.08	0.2	322				11.40
75.0		4.22	0.4	322				11.30
92.0		4.16	0.9	325				11.40

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.060	0.030	0.119	0.001	0.120	0.235	0.205
10.0		0.050	0.050	0.119	0.001	0.120		
20.0		0.045	0.040	0.114	0.001	0.115		
30.0		0.040	0.024	0.109	0.001	0.110		
50.0		0.040	0.024	0.114	0.001	0.115	0.180	0.156
75.0		0.040	0.026	0.114	0.001	0.115		
92.0		0.020	0.020	0.129	0.001	0.130	0.230	0.210

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.6	0.590	0.003	2.66	000E00		000E00	200E02
10.0	27.8	0.590			400E00			
20.0	27.7	0.590						
30.0	28.0	0.570						
50.0	27.9	0.620			100E00			
75.0	28.0	0.760						
92.0	28.0	0.810			200E00		000E00	260E01

DEPTH	SPC 35
1.0	650E01
10.0	
20.0	
30.0	
50.0	
75.0	
92.0	220E01

C-REF-NO 021
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 079-36-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0345

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		5.80	0.7	319	1.8			11.00
10.0		5.78	0.9	328				11.00
20.0		5.23	0.5	328				11.00
28.0		5.21	0.6	327	1.9			10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.060	0.028	0.213	0.002	0.215	0.290	0.262
10.0		0.045	0.032	0.198	0.002	0.200		
20.0		0.050	0.030	0.199	0.001	0.200		
28.0		0.055	0.024	0.199	0.001	0.200	0.235	0.211

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.730		3.01				
10.0	26.3	0.780						
20.0	26.2	0.740						
28.0	26.4	0.800						

DEPTH	SPC 35
1.0	
10.0	
20.0	
28.0	

C-REF-NO 021
CONS. NO 006
COUNTRY 18
INSTITUTE 22

LAT 43-37-00N
LON 079-20-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0521

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		4.44	0.9	327				11.30
10.0		4.46	0.6	337				11.92
13.0		4.45	0.6					11.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.050	0.038	0.204	0.001	0.205	0.185	0.147
10.0		0.060	0.050	0.199	0.001	0.200		
13.0		0.060	0.026	0.199	0.001	0.200	0.260	0.234

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.600		2.43				
10.0	26.8	0.600						
13.0	26.8	0.600						

DEPTH	SPC 35
1.0	
10.0	
13.0	

C-REF-NO 021
CONS. NO 007
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 079-17-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0614

NO. DEPTHS 08
SOUNDING 1054
BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		4.72	0.8	337				11.40
10.0		4.75	0.7	334				10.92
20.0		4.77	0.6	333				10.71
30.0		4.75	0.6	332				11.20
50.0		4.68	0.6	332				11.00
75.0		4.44	0.7	333				10.82
100.0		3.92	0.8	334				10.75
103.0		3.93	0.9	332				11.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.055	0.028	0.214	0.001	0.215	0.200	0.172
10.0		0.055	0.062	0.204	0.001	0.205		
20.0		0.060	0.036	0.194	0.001	0.195		
30.0		0.055	0.020	0.194	0.001	0.195		
50.0		0.065	0.024	0.189	0.001	0.190	0.285	0.261
75.0		0.020	0.028	0.194	0.001	0.195		
100.0		0.055	0.024	0.199	0.001	0.200		
103.0		0.060	0.036	0.199	0.001	0.200	0.290	0.254

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.8	0.610	0.006	1.84	000E00		100E00	330E02
10.0	27.8	0.620			000E00			
20.0	28.0	0.620						
30.0	27.9	0.630						
50.0	27.8	0.640			000E00			
75.0	27.8	0.660						
100.0	27.7	0.840						
103.0	27.7	0.850			500E00		100E00	350E01

DEPTH	SPC 35
1.0	280E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
103.0	140E01

C-REF-NO 021
CONS. NO 008
COUNTRY 18
INSTITUTE 22

LAT 43-29-00N
LON 079-15-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0706

NO. DEPTHS 08
SOUNDING 1298
BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		6.81	1.0	327				11.30
10.0		6.81	0.7	334				11.25
20.0		6.78	0.7	333				11.21
30.0		6.74	0.6	333				11.20
50.0		6.59	0.4	332				11.23
75.0		5.94	0.3	338				11.41
100.0		3.90	0.4	331				11.37
128.0		3.88	0.6	337				11.45

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.020	0.020	0.164	0.001	0.165	0.200	0.180
10.0		0.020	0.040	0.159	0.001	0.160		
20.0		0.020	0.024	0.154	0.001	0.155		
30.0		0.025	0.026	0.154	0.001	0.155		
50.0		0.025	0.026	0.154	0.001	0.155	0.185	0.159
75.0		0.030	0.022	0.169	0.001	0.170		
100.0		0.055	0.018	0.205	0.000	0.205		
128.0		0.060	0.030	0.205	0.000	0.205	0.190	0.160

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.2	0.340	0.004	2.78	000E00			750E01
10.0	26.2	0.340			000E00			
20.0	26.3	0.350						
30.0	26.2	0.360						
50.0	26.0	0.360			000E00			
75.0	25.9	0.420						
100.0	25.9	0.690						
128.0	25.8	0.870			000E00		200E00	800E00

DEPTH	SPC 35
1.0	430E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
128.0	120E01

C-REF-NO 021
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 079-12-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0755

NO. DEPTHS 08
SOUNDING 1201
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.07	0.9	335				11.20
10.0		8.09	0.8	332				11.08
20.0		8.09	0.4	332				11.20
30.0		8.01	0.4	329				11.00
50.0		5.95	0.2	330				11.58
75.0		4.07	0.2	337				11.45
100.0		3.94	0.4	336				11.36
118.0		3.93	0.7	338				11.29

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.015	0.000	0.133	0.002	0.135	0.225	0.225
10.0		0.015	0.034	0.133	0.002	0.135		
20.0		0.015	0.034	0.128	0.002	0.130		
30.0		0.015	0.028	0.128	0.002	0.130		
50.0		0.030	0.024	0.169	0.001	0.170	0.360	0.336
75.0		0.065	0.020	0.214	0.001	0.215		
100.0		0.070	0.030	0.214	0.001	0.215		
118.0		0.055	0.020	0.215	0.000	0.215	0.200	0.180

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.6	0.270	0.004	4.30	000E00		000E00	400E01
10.0	26.9	0.280			100E00			
20.0	26.7	0.300						
30.0	26.4	0.280						
50.0	26.1	0.470			000E00			
75.0	26.2	0.880						
100.0	26.2	0.960						
118.0	26.3	1.010			000E00		000E00	200E02

DEPTH	SPC 35
1.0	170E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
118.0	140E02

C-REF-NO 021
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0858

NO. DEPTHS 07
SOUNDING 0945
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.26		339				10.90
10.0		8.28		337				10.94
20.0		8.29		336				10.80
30.0		8.26		334				10.82
50.0		8.24		333				10.97
75.0		8.17		333				11.00
92.0		5.64						

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.015	0.026	0.137	0.003	0.140	0.235	0.209
10.0		0.015	0.034	0.132	0.003	0.135		
20.0		0.020	0.034	0.132	0.003	0.135		
30.0		0.015	0.026	0.127	0.003	0.130		
50.0		0.015	0.026	0.133	0.002	0.135	0.280	0.254
75.0		0.020	0.042	0.128	0.002	0.130		
92.0		0.040	0.042	0.128	0.002	0.130	0.350	0.308

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.5	0.300	0.004	4.65	000E00	000E00	000E00	280E01
10.0	27.6	0.300			100E00			
20.0	27.9	0.310						
30.0	27.6	0.330						
50.0	27.6	0.390			100E00			
75.0	27.6	0.290						
92.0	27.4	0.320			000E00	400E00	000E00	150E02

DEPTH	SPC 35
1.0	170E01
10.0	
20.0	
30.0	
50.0	
75.0	
92.0	370E01

C-REF-NO 021
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 079-09-00W

YEAR 1967
MONTH 10
DAY 29
TIME 0953

NO. DEPTHS 03
SOUNDING 0150
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.64		341				10.77
10.0		8.67		334				10.89
13.0		8.66		336				11.00

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0				0.113	0.002	0.115	0.235	
10.0				0.117	0.003	0.120		
13.0				0.112	0.003	0.115	0.275	

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.280	0.002	6.29	000E00	000E00	140E01	120E02
10.0	26.8	0.290			100E01			
13.0	26.8	0.290			500E00	000E00	800E00	180E02

DEPTH	SPC 35
1.0	600E01
10.0	
13.0	300E01

C-REF-NO 021
CONS. NO 012
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 29
TIME 1053

NO. DEPTHS 03
SOUNDING 0160
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.82	0.9	332				10.90
10.0		8.85	0.4	329				10.83
14.0		8.84	0.8	334				10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0				0.117	0.003	0.120	0.265	
10.0				0.112	0.003	0.115		
14.0				0.112	0.003	0.115	0.260	

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.260	0.003	5.94	400E00	400E00	000E00	600E01
10.0	26.5	0.260			100E01			
14.0	26.6	0.270			600E00	140E01	000E00	120E02

DEPTH	SPC 35
1.0	100E01
10.0	
14.0	300E01

C-REF-NO 021
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 078-48-00W

YEAR 1967
MONTH 10
DAY 29
TIME 1156

NO. DEPTHS 04
SOUNDING 0310
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	2.5	8.79	0.7	328	4.6		4.3	10.66
10.0		8.86	1.2	326				10.82
20.0		8.85	0.7	328				11.02
29.0		8.86	0.8	330	6.6		2.8	11.10

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.034			0.127	0.003	0.130	0.315	
10.0			0.080	0.122	0.003	0.125		
20.0			0.060	0.127	0.003	0.130		
29.0			0.044	0.118	0.002	0.120	0.260	0.216

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.320	0.004	5.70	240E01	320E01	200E00	250E02
10.0	27.4	0.320			160E01			
20.0	27.7	0.310						
29.0	27.6	0.300			100E01	180E01	000E00	140E02

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
29.0	900E01

C-REF-NO 021
CONS. NO 014
COUNTRY 18
INSTITUTE 22

LAT 43-25-00N
LON 078-50-00W

YEAR 1967
MONTH 10
DAY 29
TIME 1241

NO. DEPTHS 08
SOUNDING 1158
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.5	8.69	0.2	324				10.70
10.0		8.75	0.2	324				10.70
20.0		8.74	0.1	324				10.70
30.0		8.74	0.2	324				10.80
50.0		8.63	0.2	324				10.80
75.0		6.15	0.2	326				10.80
100.0		3.97	0.5	326				11.40
114.0		3.98	0.3	327				11.40

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.000	0.056	0.132	0.003	0.135	0.310	0.254
10.0		0.000	0.048	0.127	0.003	0.130		
20.0		0.000	0.050	0.127	0.003	0.130		
30.0		0.000	0.070	0.122	0.003	0.125		
50.0		0.020	0.038	0.127	0.003	0.130	0.275	0.237
75.0		0.050	0.034	0.203	0.002	0.205		
100.0		0.070	0.028	0.234	0.001	0.235		
114.0		0.070	0.060	0.235	0.000	0.235	0.200	0.140

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.2	0.260	0.002	4.30	800E00		000E00	160E01
10.0	27.2	0.270			600E00			
20.0	27.2	0.280						
30.0	27.2	0.280						
50.0	27.0	0.300			400E00			
75.0	26.9	0.640						
100.0	27.0	0.840						
114.0	26.8	0.850			160E01		200E00	260E01

DEPTH	SPC 35
1.0	240E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
114.0	100E01

C-REF-NO 021
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT 43-30-00N
LON 078-53-00W

YEAR 1967
MONTH 10
DAY 29
TIME 1336

NO. DEPTHS 07
SOUNDING 1384
BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.5	7.28	0.2	316				11.30
10.0		7.28	0.2					11.40
20.0		6.95						11.40
30.0		6.18	0.1	314				11.60
50.0		4.88	0.2	316				11.90
75.0		3.90	0.1	314				12.30
100.0		3.87	0.1	319				12.40

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.025	0.038	0.154	0.001	0.155	0.225	0.187
10.0		0.020	0.070	0.149	0.001	0.150		
20.0		0.020	0.024	0.149	0.001	0.150		
30.0		0.030	0.028	0.169	0.001	0.170		
50.0		0.045	0.010	0.199	0.001	0.200	0.200	0.190
75.0		0.055	0.020	0.220	0.000	0.220		
100.0		0.050	0.014	0.214	0.001	0.215		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.330	0.002	3.83	140E01		000E00	650E01
10.0	26.8	0.300			100E00			
20.0	26.8	0.310						
30.0	26.6	0.350						
50.0	26.4	0.390			000E00			
75.0	26.4	0.450						
100.0	26.4	0.450						

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	

C-REF-NO 021
CONS. NO 016
COUNTRY 18
INSTITUTE 22

LAT 43-35-00N
LON 078-55-00W

YEAR 1967
MONTH 10
DAY 29
TIME 2006

NO. DEPTHS 08
SOUNDING 1323
BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	7.5	6.49	0.2	321	0.8		0.6	11.70
10.0		6.67	0.1	318				11.70
20.0		6.52	0.1	321				11.60
30.0		6.19	0.1	321				11.70
50.0		5.44	0.1	323	0.6			11.90
75.0		5.06	0.1	321				11.90
100.0		5.15	0.1	318				11.70
130.0		4.03	0.1	320	0.6		1.0	11.70

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.033	0.005	0.179	0.001	0.180	0.195	0.190
10.0		0.075	0.007	0.164	0.001	0.165		
20.0		0.038	0.004	0.164	0.001	0.165		
30.0		0.045	0.003	0.174	0.001	0.175		
50.0		0.056	0.003	0.189	0.001	0.190	0.200	0.197
75.0		0.063	0.045	0.199	0.001	0.200		
100.0		0.064	0.000	0.189	0.001	0.190		
130.0		0.076	0.006	0.204	0.001	0.205	0.190	0.184

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.7	0.330	0.002	2.89	000E00		000E00	900E00
10.0	26.0	0.320			000E00			
20.0	25.9	0.330						
30.0	25.8	0.360						
50.0	25.8	0.470			000E00			
75.0	25.8	0.510						
100.0	25.8	0.540						
130.0	25.8	0.690			000E00		100E01	110E01

DEPTH	SPC 35
1.0	900E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
130.0	700E00

C-REF-NO 021
CONS. NO 017
COUNTRY 18
INSTITUTE 22

LAT 43-39-00N
LON 078-57-00W

YEAR 1967
MONTH 10
DAY 67
TIME 2108

NO. DEPTHS 08
SOUNDING 1189
BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	7.5	5.10	0.1	330				11.80
10.0		5.06	0.2	322				11.79
20.0		5.09						11.84
30.0		5.08	0.1	322				11.72
50.0		4.93	0.1	322				11.65
75.0		4.41	0.1	323				11.72
100.0		3.98	0.1	323				11.92
117.0		3.98	4.1	325				11.96

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.063	0.006	0.199	0.001	0.200	0.175	0.169
10.0		0.064	0.017	0.194	0.001	0.195		
20.0		0.061	0.009	0.189	0.001	0.190		
30.0		0.058	0.008	0.189	0.001	0.190		
50.0		0.062	0.006	0.184	0.001	0.185	0.280	0.274
75.0		0.068		0.199	0.001	0.200		
100.0		0.072	0.020	0.204	0.001	0.205		
117.0		0.104	0.018	0.209	0.001	0.210	0.200	0.182

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.0	0.610	0.004	2.07	000E00		100E00	480E01
10.0	26.0	0.600			000E00			
20.0	26.0	0.580						
30.0	25.9	0.590						
50.0	25.9	0.590			000E00			
75.0	25.8	0.740						
100.0	25.8	0.800						
117.0	26.2	0.830			000E00		900E00	700E00

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
117.0	600E00

C-REF-NO 021
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-44-00N
LON 078-59-00W

YEAR 1967
MONTH 10
DAY 29
TIME 2155

NO. DEPTHS 05
SOUNDING 0780
BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	9.0	4.82	1.2	327				11.68
10.0		4.78	0.3	324				12.00
20.0		4.70	0.2	321				11.80
30.0		4.68	0.3	323				11.69
50.0		4.19	0.4	324				11.81

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.065	0.009	0.194	0.001	0.195	0.175	0.166
10.0		0.065	0.037	0.189	0.001	0.190		
20.0		0.065	0.011	0.189	0.001	0.190		
30.0		0.065	0.016	0.194	0.001	0.195		
50.0		0.075	0.010	0.199	0.001	0.200	0.175	0.165

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.8	0.620	0.004	1.96	000E00		000E00	100E02
10.0	25.8	0.640			000E00			
20.0	25.7	0.630						
30.0	25.7	0.630						
50.0	25.8	0.750			000E00			

DEPTH	SPC 35
1.0	100E01
10.0	
20.0	
30.0	
50.0	

C-REF-NO 021
CONS. NO 019
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 079-02-00W

YEAR 1967
MONTH 10
DAY 29
TIME 2236

NO. DEPTHS 03
SOUNDING 0150
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		5.61	2.2	337	4.1			11.49
10.0		5.38	1.6	332				11.82
13.0		5.36			3.0			11.52

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.103	0.043	0.198	0.002	0.200	0.400	0.357
10.0		0.096	0.046	0.198	0.002	0.200		
13.0		0.093	0.018	0.193	0.002	0.195	0.250	0.232

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.620		2.66				
10.0	27.0	0.650						
13.0	26.9	0.670						

DEPTH	SPC 35
1.0	
10.0	
13.0	

C-REF-NO 021
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 43-51-00N
LON 078-41-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0023

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		6.37	3.0	330				11.68
10.0		6.26	2.7	332				11.10
20.0		5.87	1.5	319				11.60
28.0		5.47	0.9	322				11.53

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.063	0.010	0.193	0.002	0.195	0.200	0.190
10.0		0.067	0.012	0.189	0.001	0.190		
20.0		0.069	0.008	0.189	0.001	0.190		
28.0		0.075	0.006	0.199	0.001	0.200	0.240	0.334

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.6	0.590	0.004	5.59	200E00	000E00	000E00	810E01
10.0	26.7	0.590			500E00			
20.0	26.5	0.600						
28.0	26.8	0.630			000E00	000E00	000E00	580E01

DEPTH	SPC 35
1.0	450E01
10.0	
20.0	
28.0	170E01

C-REF-NO 021
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 43-53-00N
LON 078-32-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0122

NO. DEPTHS 03
SOUNDING 0170
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		5.98	0.9	329				11.40
10.0		5.96	0.8	326				11.50
15.0		5.84	0.7	330				11.62

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.062	0.012	0.209	0.001	0.210	0.200	0.188
10.0		0.069	0.057	0.199	0.001	0.200		
15.0		0.077	0.005	0.194	0.001	0.195	0.240	0.235

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.4	0.560		4.18				
10.0	27.6	0.570						
15.0	27.5	0.580						

DEPTH	SPC 35
1.0	
10.0	
15.0	

C-REF-NO 021
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 43-47-00N
LON 078-30-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0217

NO. DEPTHS 06
SOUNDING 0762
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		4.95	0.5	325				11.90
10.0		5.00	0.4	325				11.98
20.0		4.87	0.4	324				11.86
30.0		4.85	0.4	326				11.62
50.0		4.84	0.4	326				11.60
74.0		4.84	0.4	323				12.02

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.071	0.008	0.209	0.001	0.210		
10.0		0.077	0.006	0.199	0.001	0.200		
20.0		0.077	0.010	0.194	0.001	0.195		
30.0		0.074	0.022	0.194	0.001	0.195		
50.0		0.072	0.006	0.194	0.001	0.195		
74.0		0.074	0.006	0.189	0.001	0.190		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.6	0.550	0.004	2.19	000E00			290E01
10.0	26.8	0.560			000E00			
20.0	26.6	0.570						
30.0	26.6	0.560						
50.0	26.4	0.600			000E00			
74.0	26.2	0.640			100E00		000E00	520E01

DEPTH	SPC 35
1.0	110E01
10.0	
20.0	
30.0	
50.0	
74.0	300E00

C-REF-NO 021
CONS. NO 023
COUNTRY 18
INSTITUTE 22

LAT 43-43-00N
LON 078-29-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0307

NO. DEPTHS 07
SOUNDING 1085
BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		4.89	0.4	325				12.00
10.0		4.93	0.3	321				11.64
20.0		4.91	0.4	322				11.98
30.0		4.89	0.3	322				11.85
50.0		4.81	0.3	321				11.52
75.0		4.52						11.71
100.0		4.06	0.4	324				11.82

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0			0.011	0.199	0.001	0.200	0.240	0.229
10.0			0.028	0.189	0.001	0.190		
20.0			0.020	0.184	0.001	0.185		
30.0			0.044	0.189	0.001	0.190		
50.0			0.020	0.184	0.001	0.185	0.200	0.180
75.0		0.081	0.097	0.189	0.001	0.190		
100.0		0.094	0.012	0.199	0.001	0.200		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.9	0.570	0.002	2.19	000E00		000E00	150E01
10.0	26.0	0.590			200E00			
20.0	26.1	0.590						
30.0	25.8	0.600						
50.0	25.7	0.650			000E00			
75.0	25.8	0.690						
100.0	25.9	0.770						

DEPTH	SPC 35
1.0	400E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	

C-REF-NO 021
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0425

NO. DEPTHS 18
SOUNDING 1441
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		6.23	0.2	320	0.6		1.5	11.50
4.0		6.26	0.2	320				11.75
7.0		6.25	1.0					11.85
10.0		6.26	0.2					11.75
13.0		6.26	0.3	322				11.85
16.0		6.24	0.3	326				11.80
19.0		6.22	0.2	328				11.75
22.0		6.21	0.3	324				11.70
25.0		6.14	0.2	323				11.70
28.0		6.06	0.2	326				11.70
31.0		5.94	0.1	330				11.60
34.0		5.84	0.1	322				11.70
37.0		5.78	0.2	324				11.70
40.0		5.74	0.2	324				11.70
50.0		5.20	0.2	325				11.80
75.0		4.59	0.3	328				12.05
100.0		3.85	0.1	327				11.90
142.0		3.84	0.1	324	0.9		1.5	11.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.028	0.024	0.179	0.001	0.180	0.240	0.216
4.0		0.028	0.020	0.184	0.001	0.185	0.225	0.205
7.0		0.036	0.045	0.189	0.001	0.190	0.230	0.185
10.0		0.033	0.020	0.184	0.001	0.185	0.240	0.220
13.0		0.042	0.036	0.184	0.001	0.185	0.240	0.204
16.0		0.029	0.019	0.179	0.001	0.180	0.225	0.206
19.0		0.032	0.026	0.179	0.001	0.180	0.210	0.184
22.0		0.027	0.018	0.179	0.001	0.180	0.300	0.282
25.0		0.025	0.050	0.174	0.001	0.175	0.220	0.170
28.0		0.029	0.028	0.179	0.001	0.180	0.250	0.222
31.0		0.027	0.026	0.194	0.001	0.195	0.380	0.354
34.0		0.033	0.023	0.184	0.001	0.185	0.270	0.247
37.0		0.032	0.022	0.184	0.001	0.185	0.270	0.248
40.0		0.033	0.048	0.184	0.001	0.185	0.280	0.232
50.0		0.045	0.046	0.194	0.001	0.195		
75.0		0.056	0.034	0.199	0.001	0.200	0.190	0.156
100.0		0.057	0.028	0.214	0.001	0.215	0.250	0.222
142.0	0.063			0.219	0.001	0.220	0.240	

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.5	0.350	0.002	2.66	000E00		100E00	
4.0	26.9	0.360						
7.0	28.0	0.350						
10.0	27.9	0.390			000E00			
13.0	27.9	0.360						
16.0	28.0	0.380						
19.0	27.9	0.430						
22.0	27.8	0.430						
25.0	27.9	0.450						
28.0	27.7	0.510						
31.0	26.3	0.440						
34.0	26.2	0.540						
37.0	26.2	0.500						
40.0	26.1	0.500						
50.0	26.0	0.590			000E00			
75.0	26.1	0.580						
100.0	26.1	0.790						
142.0	26.1	1.000			000E00		000E00	150E01

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	400E00	191.0	93.7	27.3	41.600	7.700	1.300	12.200
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0		189.0	94.7	27.1	41.600	7.900	1.400	12.400
75.0								
100.0								
142.0	200E00	192.0	96.1	27.1	41.600	7.900	1.300	12.000

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.002	0.009	0.002	0.002	0.000
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0	0.000	0.000	0.000	0.000	0.008	0.002	0.001	0.000
75.0								
100.0								
142.0	0.000	0.000	0.000	0.000	0.007	0.003	0.002	0.000

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.003	0.175	0.020
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
31.0			
34.0			
37.0			
40.0			
50.0	0.003	0.168	0.004
75.0			
100.0			
142.0	0.002	0.158	0.004

C-REF-NO 021
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 078-28-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0656

NO. DEPTHS 09
SOUNDING 1707
BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		6.57	0.3	323				11.65
10.0		6.58	0.2	324				
19.0		6.57	0.2	323				11.60
29.0		6.58	0.2	321				11.70
48.0		6.44	0.2	327				11.65
72.0		5.47	0.2	327				11.80
97.0		3.88	0.1	327				12.40
145.0		3.81	0.1	330				11.95
162.0		3.78	0.2	331				11.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.017	0.018	0.159	0.001	0.160	0.190	0.172
10.0		0.019	0.033	0.164	0.001	0.165		
19.0		0.017	0.018	0.164	0.001	0.165		
29.0		0.017	0.024	0.164	0.001	0.165		
48.0		0.040	0.017	0.164	0.001	0.165	0.175	0.158
72.0		0.028	0.013	0.179	0.001	0.180		
97.0		0.041	0.012	0.204	0.001	0.205		
145.0		0.049	0.010	0.209	0.001	0.210		
162.0		0.050	0.005	0.209	0.001	0.210	0.190	0.185

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.9	0.330	0.003	2.78	000E00		000E00	190E01
10.0	25.9	0.330			000E00			
19.0	25.8	0.320						
29.0	25.8	0.340						
48.0	25.8	0.350			000E00			
72.0	25.7	0.370						
97.0	25.5	0.430						
145.0	25.6	0.820						
162.0	25.6	0.920			300E00		000E00	800E00

DEPTH	SPC 35
1.0	100E00
10.0	
19.0	
29.0	
48.0	
72.0	
97.0	
145.0	
162.0	300E00

C-REF-NO 021
CONS. NO 026
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-27-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0821

NO. DEPTHS 08
SOUNDING 1475
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.12	0.5	321				10.70
10.0		9.11	0.5	326				10.85
20.0		8.52	0.3	318				10.95
30.0		8.31	0.3	319				11.10
50.0		7.64	0.2	321				11.25
75.0		4.83	0.2	321				12.10
100.0		4.13	0.2	322				12.30
145.0		3.83	0.3	325				12.10

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.012	0.037	0.117	0.003	0.120	0.275	0.238
10.0		0.013	0.044	0.147	0.003	0.150		
20.0		0.012	0.025	0.123	0.002	0.125		
30.0		0.013	0.033	0.123	0.002	0.125		
50.0		0.013	0.035	0.138	0.002	0.140	0.200	0.165
75.0		0.025	0.023	0.184	0.001	0.185		
100.0		0.035	0.024	0.199	0.001	0.200		
145.0		0.041	0.019	0.203	0.001	0.204		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.5	0.260	0.001	4.18	130E01		300E00	230E02
10.0	25.4	0.260			700E00			
20.0	25.5	0.260						
30.0	25.5	0.260						
50.0	25.4	0.290			300E00			
75.0	25.0	0.410						
100.0	25.0	0.450						
145.0	25.2	0.670						

DEPTH	SPC 35
1.0	140E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
145.0	

C-REF-NO 021
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 43-24-00N
LON 078-26-00W

YEAR 1967
MONTH 10
DAY 30
TIME 0910

NO. DEPTHS 04
SOUNDING 0310
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.28	2.3	325				10.70
10.0		9.32	2.3					10.75
20.0		9.30	1.9	323				10.75
29.0		9.09	1.6	323				10.75

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.008	0.025	0.102	0.003	0.105		
10.0		0.016		0.097	0.003	0.100		
20.0		0.018	0.043	0.097	0.003	0.100		
29.0		0.016	0.042	0.117	0.003	0.120		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.290	0.002	4.18	110E02	100E02	420E01	180E03
10.0	26.4	0.280			760E01			
20.0	26.4	0.290						
29.0	26.3	0.290			680E01	780E01	280E01	250E03

DEPTH	SPC 35
1.0	140E03
10.0	
20.0	
29.0	140E03

C-REF-NO 021
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 43-23-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1132

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.81	1.9	328	3.0		1.7	10.60
10.0		9.87	1.8	325				10.55
17.0		9.87	1.7	326	2.9		2.1	10.55

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.032	0.043	0.102	0.003	0.105		
10.0		0.040	0.027	0.097	0.003	0.100		
17.0		0.039		0.097	0.003	0.100	0.275	

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.250	0.002	4.77	170E01	100E01	000E00	140E02
10.0	27.4	0.250			240E01			
17.0	27.4	0.260			900E00	600E00	000E00	130E02

DEPTH	SPC 35
1.0	120E02
10.0	
17.0	880E01

C-REF-NO 021
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1222

NO. DEPTHS 08
SOUNDING 1372
BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.0	8.29	0.2	324				11.20
10.0		8.31	0.3	322				11.10
20.0		8.32	0.2	322				11.20
30.0		8.30	0.2	321				11.15
50.0		5.89	0.2	320				11.50
75.0		4.54	0.2	321				12.00
100.0		3.99	0.2	324				11.67
135.0		3.98	0.2	322				11.55

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0			0.018	0.149	0.001	0.150	0.200	0.182
10.0		0.010	0.014	0.144	0.001	0.145		
20.0		0.011	0.017	0.144	0.001	0.145		
30.0		0.010	0.028	0.144	0.001	0.145		
50.0		0.026	0.018	0.189	0.001	0.190	0.175	0.157
75.0		0.030	0.085	0.214	0.001	0.215		
100.0		0.040	0.009	0.219	0.001	0.220		
135.0		0.042	0.008	0.214	0.001	0.215	0.200	0.192

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.1	0.280	0.007	3.95	100E00		000E00	250E01
10.0	26.0	0.280			000E00			
20.0	26.0	0.280						
30.0	26.0	0.290						
50.0	25.7	0.440			000E00			
75.0	25.5	0.470						
100.0	25.4	0.730						
135.0	25.3	0.790			000E00		000E00	150E01

DEPTH	SPC 35
1.0	800E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
135.0	200E00

C-REF-NO 021
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 43-34-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1323

NO. DEPTHS 05
SOUNDING 1777
BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.5	7.54	0.2	321				11.30
10.0		7.53	0.1	320				11.39
20.0		7.48	0.2	319				10.10
30.0		7.32	0.2	319				10.74
50.0		6.43	0.2	316				11.03

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.013					0.170	
10.0		0.010	0.020	0.154	0.001	0.155		
20.0		0.015	0.022	0.154	0.001	0.155		
30.0		0.015	0.015	0.154	0.001	0.155		
50.0		0.027	0.015	0.154	0.001	0.155	0.180	0.165

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		0.330	0.004	4.18	000E00		000E00	500E00
10.0		0.350			000E00			
20.0		0.350						
30.0	26.3	0.330						
50.0	26.2	0.340			000E00			

DEPTH	SPC 35
1.0	400E00
10.0	
20.0	
30.0	
50.0	

C-REF-NO 021
CONS. NO 031
COUNTRY 18
INSTITUTE 22

LAT 43-40-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1437

NO. DEPTHS 09
SOUNDING 1573
BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.0	7.80	0.2	315	0.8		1.3	11.20
10.0		7.80	0.2	319				11.35
20.0		7.59	0.2	319				11.07
30.0		6.71	0.2	321				10.89
50.0		5.35	0.3	321	0.5			11.15
74.0		4.57	0.2	322				11.10
99.0		3.93	0.2	323				11.83
149.0		3.80	0.1	326				12.01
154.0		3.80	0.3	326	0.5		1.2	11.94

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.043	0.017	0.047	0.154	0.001	0.155	0.200	0.153
10.0		0.014	0.019	0.149	0.001	0.150		
20.0		0.014	0.014	0.149	0.001	0.150		
30.0		0.020	0.015	0.174	0.001	0.175		
50.0		0.050	0.008	0.189	0.001	0.190	0.185	0.177
74.0		0.036		0.209	0.001	0.210		
99.0		0.042	0.010	0.219	0.001	0.220		
149.0		0.061	0.094	0.234	0.001	0.235		
154.0		0.052	0.005	0.219	0.001	0.220	0.145	0.140

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.340	0.001	3.95			000E00	900E00
10.0	26.5	0.350			000E00			
20.0	26.6	0.350						
30.0	26.6	0.400						
50.0	26.4	0.420			000E00			
74.0	26.3	0.440						
99.0	26.3	0.590						
149.0	26.4	1.050						
154.0	26.4	1.080			100E00		000E00	150E01

DEPTH	SPC 35
1.0	700E00
10.0	
20.0	
30.0	
50.0	
74.0	
99.0	
149.0	
154.0	200E00

C-REF-NO 021
CONS. NO 032
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1543

NO. DEPTHS 08
SOUNDING 1044
BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.5	7.07	0.4	322				11.17
10.0		7.07	0.4	326				11.32
20.0		7.04	0.3	319				11.32
30.0		6.99	0.3	321				11.30
50.0		6.61	0.3	321				11.22
75.0		5.84	0.4	320				11.07
100.0		4.78	0.4	326				11.33
102.0		4.74	0.5	324				11.26

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.024	0.019	0.179	0.001	0.180	0.190	0.171
10.0		0.020	0.012	0.169	0.001	0.170		
20.0		0.020	0.010	0.169	0.001	0.170		
30.0		0.021	0.023	0.169	0.001	0.170		
50.0		0.030	0.021	0.169	0.001	0.170	0.235	0.214
75.0		0.033	0.015	0.184	0.001	0.185		
100.0		0.046	0.010	0.209	0.001	0.210		
102.0		0.045	0.012	0.204	0.001	0.205	0.220	0.208

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.500	0.002	3.13	200E00		000E00	400E00
10.0	26.2	0.500			000E00			
20.0	26.3	0.500						
30.0	26.2	0.500						
50.0	25.9	0.540			100E00			
75.0	25.8	0.600						
100.0	25.7	0.690						
102.0	25.7	0.740			110E01		000E00	300E00

DEPTH	SPC 35
1.0	200E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
102.0	000E00

C-REF-NO 021
CONS. NO 033
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1647

NO. DEPTHS 06
SOUNDING 0597
BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	8.5	5.96	0.5	323				11.12
10.0		5.95	0.6	327				11.40
20.0		5.91	0.4	321				11.36
30.0		5.90	0.4	321				11.19
50.0		5.73	0.4	325				11.20
57.0		5.68	0.5	323				10.93

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.033	0.005				0.225	0.220
10.0		0.034	0.015	0.194	0.001	0.195		
20.0		0.036	0.010	0.194	0.001	0.195		
30.0		0.032	0.017	0.194	0.001	0.195		
50.0		0.037	0.020	0.194	0.001	0.195	0.210	0.190
57.0		0.040	0.014	0.194	0.001	0.195	0.170	0.156

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.580	0.000	3.01	000E00		000E00	100E00
10.0	26.7	0.580			300E00			
20.0	26.7	0.580						
30.0	26.7	0.570						
50.0	26.6	0.600			000E00			
57.0	26.6	0.610			300E00		000E00	400E00

DEPTH	SPC 35
1.0	100E00
10.0	
20.0	
30.0	
50.0	
57.0	200E00

C-REF-NO 021
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 43-57-00N
LON 078-00-00W

YEAR 1967
MONTH 10
DAY 30
TIME 1759

NO. DEPTHS 04
SOUNDING 0230
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	3.0	7.30	0.1	329	2.4			11.10
10.0		7.30	0.1	323				11.35
20.0		7.29	0.1	322				11.33
22.0		7.27	0.1	325	4.0			11.08

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.050	0.023	0.010	0.174	0.001	0.175	0.200	0.190
10.0		0.025	0.010	0.169	0.001	0.170		
20.0		0.025	0.014	0.169	0.001	0.170		
22.0		0.027	0.010	0.169	0.001	0.170	0.200	0.190

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.1	0.530		4.07				
10.0	27.1	0.540						
20.0	27.0	0.550						
22.0	27.0	0.560						

DEPTH	SPC 35
1.0	
10.0	
20.0	
22.0	

C-REF-NO 021
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 43-56-00N
LON 077-39-00W

YEAR 1967
MONTH 10
DAY 30
TIME 2000

NO. DEPTHS 04
SOUNDING 0300
BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	3.5	8.83	1.0	319				10.49
10.0		8.84	0.6	320				10.72
20.0		8.63	0.6	321				10.90
29.0		8.49	0.5	319				10.86

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.016	0.016	0.149	0.001	0.150	0.200	0.184
10.0		0.015	0.013	0.149	0.001	0.150		
20.0		0.015	0.012	0.144	0.001	0.145		
29.0		0.016	0.005	0.144	0.001	0.145	0.190	0.185

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.1	0.520	0.000	5.47	000E00	000E00	000E00	900E00
10.0	26.2	0.550			000E00			
20.0	26.3	0.520						
29.0	26.5	0.620			000E00	000E00	000E00	100E01

DEPTH	SPC 35
1.0	700E00
10.0	
20.0	
29.0	110E01

C-REF-NO 021
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 43-54-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 30
TIME 2105

NO. DEPTHS 04
SOUNDING 0290
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	4.0	9.45	0.8	327				10.70
10.0		9.49	0.9	327				10.70
20.0		9.09	0.7	326				10.90
27.0		8.76	0.9	326				10.70

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.020	0.024	0.124	0.001	0.125	0.215	0.191
10.0		0.020	0.028	0.119	0.001	0.120		
20.0		0.020	0.020	0.119	0.001	0.120		
27.0		0.020	0.017	0.119	0.001	0.120	0.230	0.213

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.540	0.001	5.47	000E00	000E00	000E00	700E00
10.0	26.8	0.540			000E00			
20.0	26.6	0.570						
27.0	26.6	0.570			000E00	000E00	000E00	260E01

DEPTH	SPC 35
1.0	500E00
10.0	
20.0	
27.0	100E01

C-REF-NO 021
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-48-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 30
TIME 2200

NO. DEPTHS 05
SOUNDING 0518
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	4.0	9.86	0.6	321				10.70
10.0		9.89	0.6	321				10.80
20.0		9.90	0.6	321				10.90
30.0		9.78	0.6	321				10.60
49.0		7.49	0.8	321				10.40

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.015	0.030	0.104	0.001	0.105	0.240	0.210
10.0		0.020	0.030	0.104	0.001	0.105		
20.0		0.015	0.030	0.104	0.001	0.105		
30.0		0.025	0.030	0.109	0.001	0.110		
49.0		0.041	0.030	0.159	0.001	0.160	0.185	0.155

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.380	0.005	4.77	000E00		000E00	200E00
10.0	26.5	0.350			000E00			
20.0	26.5	0.350						
30.0	26.5	0.360						
49.0	26.7	0.370			000E00		000E00	800E00

DEPTH	SPC 35
1.0	500E00
10.0	
20.0	
30.0	
49.0	500E00

C-REF-NO 021
CONS. NO 038
COUNTRY 18
INSTITUTE 22

LAT 43-43-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 30
TIME 2255

NO. DEPTHS 07
SOUNDING 0810
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.07	0.4	320				10.90
10.0		8.07	0.4	322				11.10
20.0		8.09	0.3	321				11.10
30.0		8.09	0.3	323				11.00
50.0		7.92	0.4	323				10.85
75.0		4.90	0.7	323				11.05
79.0		4.30	0.5	321				11.50

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.023	0.022	0.149	0.001	0.150	0.200	0.178
10.0		0.023	0.015	0.144	0.001	0.145		
20.0		0.025	0.020	0.144	0.001	0.145		
30.0		0.024	0.038	0.144	0.001	0.145		
50.0		0.030	0.027	0.144	0.001	0.145	0.225	0.198
75.0		0.056	0.029	0.214	0.001	0.215		
79.0		0.052	0.010	0.214	0.001	0.215	0.185	0.175

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.9	0.430	0.005	3.60	000E00		000E00	200E00
10.0	26.8	0.440			000E00			
20.0	26.8	0.440						
30.0	26.7	0.440						
50.0	26.7	0.480			000E00			
75.0	26.5	0.700						
79.0	26.5	0.740			000E00		000E00	200E00

DEPTH	SPC 35
1.0	220E01
10.0	
20.0	
30.0	
50.0	
75.0	
79.0	100E00

C-REF-NO 021
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0011

NO. DEPTHS 08
SOUNDING 1295
BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		7.42	0.4	323	0.7		1.0	11.40
10.0		7.44	0.5	322				11.65
20.0		7.17	0.2	322				11.45
30.0		6.36	0.2	322				11.70
49.0		5.43	0.3	322	0.5			12.05
74.0		4.87	0.4	322				12.00
99.0		3.90	0.3	325				11.80
125.0		3.83	0.3	324	0.9		1.0	11.65

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.046	0.024	0.045	0.159	0.001	0.160	0.290	0.245
10.0		0.021	0.020	0.154	0.001	0.155		
20.0		0.019	0.020	0.154	0.001	0.155		
30.0		0.028	0.019	0.169	0.001	0.170		
49.0		0.032	0.014	0.184	0.001	0.185	0.185	0.171
74.0		0.036	0.070	0.189	0.001	0.190		
99.0		0.049	0.037	0.209	0.001	0.210		
125.0		0.050	0.040	0.209	0.001	0.210	0.170	0.130

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.320	0.004	3.13	000E00		000E00	500E00
10.0	26.7	0.330			000E00			
20.0	26.7	0.360						
30.0	26.5	0.350						
49.0	26.5	0.350			100E00			
74.0	26.4	0.360						
99.0	26.4	0.780						
125.0	26.5	0.890			000E00		000E00	200E00

DEPTH	SPC 35
1.0	300E00
10.0	
20.0	
30.0	
49.0	
74.0	
99.0	
125.0	

C-REF-NO 021
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0101

NO. DEPTHS 09
SOUNDING 1707
BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		7.91	0.3	319				11.15
10.0		7.95	0.3	320				11.20
20.0		7.94	0.3	320				11.40
30.0		7.93	0.2	318				11.20
50.0		7.87	0.2	320				11.20
75.0		6.98	0.3	327				11.40
100.0		4.52	0.3	326				12.20
150.0		3.83	0.3	326				11.70
169.0		3.80	0.4	326				11.70

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.036	0.070	0.144	0.001	0.145	0.185	0.115
10.0		0.018	0.024	0.139	0.001	0.140		
20.0		0.020	0.025	0.139	0.001	0.140		
30.0		0.017	0.020	0.139	0.001	0.140		
50.0		0.022	0.012	0.139	0.001	0.140		
75.0		0.029	0.120	0.154	0.001	0.155		
100.0		0.041	0.033	0.189	0.001	0.190		
150.0		0.068	0.060	0.214	0.001	0.215		
169.0		0.059	0.045	0.199	0.001	0.200	0.140	0.195

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.290	0.002	3.60				
10.0	26.7	0.290			000E00			
20.0	26.7	0.300						
30.0	26.7	0.310						
50.0	26.6	0.330			000E00			
75.0	26.6	0.340						
100.0	26.4	0.430						
150.0	26.5	0.860						
169.0	26.5	0.870			000E00		000E00	600E00

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
169.0	500E00

C-REF-NO 021
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0202

NO. DEPTHS 09
SOUNDING 1700
BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.51	0.2	325				10.80
10.0		9.56	0.3	321				11.00
20.0		9.55	0.2	322				10.90
30.0		9.44	0.2	321				10.85
50.0		4.43	0.2	322				12.25
75.0		3.93	0.1	321				12.35
100.0		3.85	0.1	323				12.50
150.0		3.84	0.3	326				11.35
168.0		3.88	0.1	325				11.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.017	0.030	0.118	0.002	0.120	0.200	0.170
10.0		0.013	0.022	0.113	0.002	0.115		
20.0		0.013	0.020	0.113	0.002	0.115		
30.0		0.016	0.030	0.113	0.002	0.115		
50.0		0.041	0.010	0.199	0.001	0.200	0.150	0.140
75.0		0.038	0.022	0.199	0.001	0.200		
100.0		0.039	0.030	0.199	0.001	0.200		
150.0		0.053	0.110	0.224	0.001	0.225		
168.0		0.034	0.010	0.199	0.001	0.200	0.120	0.110

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.230	0.004	4.07	000E00		000E00	300E00
10.0	26.8	0.240			000E00			
20.0	26.8	0.240						
30.0	26.8	0.250						
50.0	26.4	0.420			000E00			
75.0	26.3	0.420						
100.0	26.4	0.420						
150.0	26.5	1.070						
168.0	26.4	0.570			000E00		000E00	900E00

DEPTH	SPC 35
1.0	700E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
168.0	120E01

C-REF-NO 021
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 43-22-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0309

NO. DEPTHS 08
SOUNDING 1268
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.31	0.5	321				10.70
10.0		9.35	0.5	320				10.80
20.0		9.35	0.3	320				10.80
30.0		9.34	0.3	321				10.70
50.0		8.75	0.2	321				10.95
75.0		7.29	0.3	323				10.45
100.0		4.13	0.5	325				11.00
125.0		3.88	0.4	325				11.25

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.010	0.030	0.098	0.002	0.110	0.165	0.135
10.0		0.010	0.035	0.103	0.002	0.105		
20.0		0.010	0.040	0.098	0.002	0.100		
30.0		0.010	0.065	0.108	0.002	0.110		
50.0		0.010	0.028	0.118	0.002	0.120	0.175	0.147
75.0		0.028	0.037	0.163	0.002	0.165		
100.0		0.055	0.080	0.219	0.001	0.220		
125.0		0.052	0.010	0.209	0.001	0.210	0.115	0.105

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.5	0.230	0.004	4.07	000E00	000E00	000E00	190E01
10.0	26.6	0.250			000E00			
20.0	26.4	0.250						
30.0	26.3	0.250						
50.0	26.4	0.280			000E00			
75.0	26.2	0.490						
100.0	26.1	0.900						
125.0	26.4	1.080			000E00	000E00	000E00	160E01

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
125.0	100E01

C-REF-NO 021
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 077-30-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0409

NO. DEPTHS 04
SOUNDING 0320
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.86	0.4	319				10.45
10.0		9.87	0.5	320				10.40
20.0		9.86	0.5	320				10.45
30.0		9.86	0.6	319				10.45

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.010	0.045	0.093	0.002	0.095	0.200	0.155
10.0		0.010	0.047	0.083	0.002	0.085		
20.0		0.020	0.055	0.083	0.002	0.085		
30.0		0.017	0.060	0.083	0.002	0.085	0.175	0.115

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.5	0.210	0.015	3.95	000E00	600E00	000E00	350E01
10.0	26.8	0.230			200E00			
20.0	26.7	0.230						
30.0	26.7	0.220			400E00	200E00	000E00	470E01

DEPTH	SPC 35
1.0	240E01
10.0	
20.0	
30.0	230E01

C-REF-NO 021
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 43-18-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0638

NO. DEPTHS 04
SOUNDING 0270
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.86	0.8	323	1.7		1.9	10.56
10.0		9.89	0.7	321				10.55
20.0		9.88	0.6	321				10.61
26.0		9.89	0.7	323	1.7		1.3	10.52

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.050	0.010	0.050	0.098	0.002	0.100	0.190	0.140
10.0		0.019	0.045	0.088	0.002	0.090		
20.0		0.020	0.055	0.088	0.002	0.090		
26.0		0.019	0.045	0.088	0.002	0.090	0.200	0.155

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.230	0.000	4.77	200E00	200E00	300E00	130E02
10.0	27.3	0.290			300E00			
20.0	27.2	0.310						
26.0	27.2	0.230			100E00	400E00	000E00	220E01

DEPTH	SPC 35
1.0	200E01
10.0	
20.0	
26.0	420E01

C-REF-NO 021
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-22-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0733

NO. DEPTHS 06
SOUNDING 0762
BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.87	0.4	321				10.54
10.0		9.89	0.4	323				10.68
20.0		9.90	0.3	322				10.56
30.0		9.90	0.3	321				10.70
50.0		9.81	0.3	320				10.50
74.0		8.11	0.4	324				10.47

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.011	0.030	0.108	0.002	0.110	0.175	0.145
10.0		0.010	0.040	0.103	0.002	0.105		
20.0		0.010	0.035	0.103	0.002	0.105		
30.0		0.010	0.035	0.098	0.002	0.100		
50.0		0.012	0.035	0.103	0.002	0.105	0.225	0.190
74.0		0.020	0.025	0.148	0.002	0.150	0.165	0.140

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.6	0.210	0.001	3.83	000E00	600E00	000E00	290E01
10.0	26.7	0.240			000E00			
20.0	26.7	0.260						
30.0	26.7	0.250						
50.0	26.5	0.250			000E00			
74.0	26.4	0.490			100E00	000E00	000E00	280E01

DEPTH	SPC 35
1.0	230E01
10.0	
20.0	
30.0	
50.0	
74.0	160E01

C-REF-NO 021
CONS. NO 046
COUNTRY 18
INSTITUTE 22

LAT 43-28-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 0923

NO. DEPTHS 20
SOUNDING 2085
BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		9.67	0.6	329	0.6	8.400	0.9	10.70
4.0		9.71	0.3	321		8.420		10.80
7.0		9.70	0.3	319		8.430		10.87
10.0		9.70	0.3	318		8.410		10.80
13.0		9.70	0.3	319		8.430		10.76
16.0		9.69	0.2	320		8.380		10.77
19.0		9.66	0.2	319		8.350		10.62
22.0		9.66	0.2	320		8.340		10.76
25.0		9.68	0.3	321		8.340		10.68
28.0		9.70	0.2	321		8.370		10.61
31.0		9.46	0.1	322		8.280		10.90
34.0		9.37	0.1	321		8.320		10.72
37.0		9.27	0.1	321		8.310		10.70
40.0		9.22	0.1	322		8.280		10.93
50.0		8.76	0.1	321	0.6	8.270		10.86
75.0		4.12	0.1	319		8.180		12.50
100.0		3.94	0.1	327		8.080		12.46
150.0		3.82	0.1	326		8.150		12.42
200.0		3.77	0.3	327		8.090		11.58
206.0		3.79	0.2	326	0.2	8.080	0.7	11.50

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.039			0.118	0.002	0.120		
4.0				0.118	0.002	0.120		
7.0			0.035	0.113	0.002	0.115	0.300	0.265
10.0		0.010	0.025	0.113	0.002	0.115	0.300	0.275
13.0		0.011	0.028	0.113	0.002	0.115	0.275	0.247
16.0		0.011	0.022	0.113	0.002	0.115	0.240	0.218
19.0		0.011	0.031	0.108	0.002	0.110	0.225	0.194
22.0		0.010	0.020	0.108	0.002	0.110	0.210	0.190
25.0		0.015	0.040	0.118	0.002	0.120	0.260	0.220
28.0		0.010	0.030	0.118	0.002	0.120	0.275	0.245
31.0		0.010	0.020	0.129	0.001	0.130	0.225	0.205
34.0		0.010	0.020	0.124	0.001	0.125	0.310	0.290
37.0		0.010	0.015	0.124	0.001	0.125	0.190	0.175
40.0		0.010	0.020	0.134	0.001	0.135	0.235	0.215
50.0	0.025	0.014	0.032	0.139	0.001	0.140	0.200	0.168
75.0		0.042	0.010	0.219	0.001	0.220	0.145	0.135
100.0		0.038	0.025	0.214	0.001	0.215	0.135	0.110
150.0		0.040	0.035	0.209	0.001	0.210	0.165	0.130
200.0		0.057	0.020	0.224	0.001	0.225	0.200	0.180
206.0	0.074	0.060	0.035	0.224	0.001	0.225	0.210	0.175

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	25.9	0.220	0.002	3.71	000E00		000E00	150E01
4.0	25.8	0.230						
7.0	25.9	0.220						
10.0	25.8	0.230			000E00			
13.0	25.9	0.240						
16.0	26.1	0.250						
19.0	26.2	0.280						
22.0	26.3	0.290						
25.0	26.7	0.290						
28.0	26.6	0.270						
31.0	27.0	0.260						
34.0	27.0	0.290						
37.0	26.9	0.290						
40.0	26.9	0.300						
50.0	26.9	0.270			000E00			
75.0	26.2	0.390						
100.0	26.3	0.400						
150.0	26.3	0.420						
200.0	26.3	1.040						
206.0	26.3	1.040			000E00		000E00	180E02

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	800E00	192.0	91.8	27.5	40.800	7.900	1.400	12.800
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0		191.0	92.7	27.3	40.800	7.900	1.400	12.400
75.0								
100.0								
150.0								
200.0								
206.0	140E01	201.0	95.6	27.6	41.600	7.900	1.300	12.400

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.000	0.010	0.003	0.001	0.000
4.0								
7.0								
10.0								
13.0								
16.0								
19.0								
22.0								
25.0								
28.0								
31.0								
34.0								
37.0								
40.0								
50.0	0.000	0.000	0.000	0.000	0.006	0.002	0.001	0.005
75.0								
100.0								
150.0								
200.0								
206.0	0.000	0.000	0.000	0.000	0.008	0.002	0.002	0.002

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.002	0.175	0.008
4.0			
7.0			
10.0			
13.0			
16.0			
19.0			
22.0			
25.0			
28.0			
31.0			
34.0			
37.0			
40.0			
50.0	0.003	0.180	0.006
75.0			
100.0			
150.0			
200.0			
206.0	0.002	0.190	0.006

C-REF-NO 021
CONS. NO 047
COUNTRY 18
INSTITUTE 22

LAT 43-35-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1149

NO. DEPTHS 09
SOUNDING 1816
BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.03	0.2	321		8.230		10.50
10.0		10.07	0.2	321		8.290		10.33
20.0		10.01	0.2	320		8.320		10.41
30.0		9.57	0.2	322		8.340		10.80
50.0		6.26	0.1	322		8.240		11.46
75.0		4.01	0.3	322		8.130		12.00
100.0		3.87	0.2	323		8.120		11.30
150.0		3.75	0.4	327		8.060		11.35
172.0		3.78	0.4	327		8.060		11.38

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.010	0.020	0.104	0.001	0.105	0.250	0.230
10.0		0.010	0.015	0.098	0.002	0.100		
20.0		0.010	0.015	0.099	0.001	0.100		
30.0		0.010	0.032	0.109	0.001	0.110		
50.0		0.025	0.045	0.174	0.001	0.175	0.265	0.220
75.0		0.100	0.120	0.209	0.001	0.210		
100.0		0.030	0.030	0.204	0.001	0.205		
150.0		0.056	0.010	0.204	0.001	0.205		
172.0		0.060	0.010	0.219	0.001	0.220	0.150	0.140

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.160	0.000	5.00	000E00		000E00	120E01
10.0	27.0	0.160			100E00			
20.0	26.8	0.170						
30.0	27.0	0.180						
50.0	26.6	0.300			000E00			
75.0	26.5	0.390						
100.0	26.5	0.400						
150.0	26.6	1.120						
172.0	26.6	1.190			000E00		100E00	500E00

DEPTH	SPC 35
1.0	900E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
172.0	800E00

C-REF-NO 021
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 43-41-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1319

NO. DEPTHS 07
SOUNDING 1128
BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.0	10.94	0.3	326	0.9	8.100	6.1	10.30
10.0		10.96	0.3	330		8.070		10.40
20.0		10.94	0.3	330		8.060		10.50
30.0		10.93	0.3	325		8.210		10.50
50.0		9.49	0.3	323	0.5	8.310		10.50
74.0		4.01	0.2	327		8.290		10.70
99.0		4.05	0.4	326	1.1	8.270		11.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.011	0.026	0.084	0.001	0.085	0.260	0.234
10.0		0.011	0.025	0.084	0.001	0.085		
20.0		0.010	0.025	0.084	0.001	0.085		
30.0		0.010	0.025	0.084	0.001	0.085		
50.0		0.019	0.028	0.114	0.001	0.115	0.200	0.172
74.0		0.060	0.045	0.224	0.001	0.225		
99.0		0.071	0.080	0.229	0.001	0.230		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.0	0.180	0.002	3.95	000E00		000E00	100E00
10.0	26.0	0.180			000E00			
20.0	26.1	0.190						
30.0	26.3	0.190						
50.0	26.2	0.260			000E00			
74.0	26.0	0.580						
99.0	26.0	0.700						

DEPTH	SPC 35
1.0	500E00
10.0	
20.0	
30.0	
50.0	
74.0	
99.0	

C-REF-NO 021
CONS. NO 049
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1403

NO. DEPTHS 06
SOUNDING 0747
BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.5	11.06	0.3	323		8.350		10.50
10.0		11.08	0.5	331		8.350		10.50
20.0		11.06	0.4	328		8.340		10.70
30.0		11.08	0.3	331		8.300		10.80
50.0		10.92	0.3	327		8.290		10.80
72.0		9.41	1.2	330		8.120		10.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.010	0.035	0.068	0.002	0.070	0.225	0.190
10.0		0.010	0.050	0.067	0.003	0.070		
20.0		0.010	0.035	0.067	0.003	0.070		
30.0		0.010	0.037	0.067	0.003	0.070		
50.0		0.010	0.035	0.073	0.002	0.075	0.215	0.180
72.0		0.032	0.025	0.102	0.003	0.105	0.200	0.175

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.2	0.200	0.005	3.71	800E00		100E00	770E01
10.0	27.2	0.230			300E00			
20.0	27.3	0.230						
30.0	27.2	0.230						
50.0	27.2	0.210			100E00			
72.0	27.0	0.550			000E00		000E00	100E01

DEPTH	SPC 35
1.0	710E01
10.0	
20.0	
30.0	
50.0	
72.0	110E01

C-REF-NO 021
CONS. NO 050
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 077-00-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1503

NO. DEPTHS 03
SOUNDING 0200
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.0	11.02	0.7	339	1.5	8.450	2.2	10.30
9.0		11.03	0.6	328		8.550		10.40
17.0		11.04	0.7	327	1.3	8.420	2.8	10.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.047	0.013	0.018	0.058	0.002	0.060	0.200	0.182
9.0		0.011	0.020	0.058	0.002	0.060		
17.0		0.013	0.024	0.053	0.002	0.055	0.215	0.191

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.1	0.200	0.004	4.30	200E00		000E00	150E01
9.0	27.1	0.410			000E00			
17.0	27.0	0.420			000E00		000E00	

DEPTH	SPC 35
1.0	900E00
9.0	
17.0	

C-REF-NO 021
CONS. NO 051
COUNTRY 18
INSTITUTE 22

LAT 43-52-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1704

NO. DEPTHS 05
SOUNDING 0380
BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.0	11.68	0.8	327		8.390		9.90
10.0		11.68	0.8	327		8.440		10.10
20.0		11.67	0.9	315		8.440		10.00
30.0		11.69	0.7	327		8.390		10.00
36.0		11.69	0.7	327		8.410		10.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.015	0.030	0.059	0.001	0.060	0.220	0.190
10.0		0.014	0.035	0.054	0.001	0.055		
20.0		0.013	0.028	0.054	0.001	0.055		
30.0		0.012	0.030	0.055	0.000	0.055		
36.0		0.013	0.030	0.050	0.000	0.050	0.240	0.210

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FLO	MF STR	SPC 20
1.0	27.4	0.370	0.004	3.83	000E00		000E00	180E01
10.0	27.5	0.370			100E00			
20.0	27.4	0.370						
30.0	27.4	0.380						
36.0	27.5	0.350			100E00		000E00	140E01

DEPTH	SPC 35
1.0	700E00
10.0	
20.0	
30.0	
36.0	900E00

C-REF-NO 021
CONS. NO 052
COUNTRY 18
INSTITUTE 22

LAT 43-47-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1806

NO. DEPTHS 06
SOUNDING 0628
BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.0	10.88	0.5	328		8.390		10.20
10.0		10.89	0.4	330		8.390		10.20
20.0		10.89	0.5			7.830		9.50
30.0		10.89	0.4	333		8.380		10.20
50.0		10.87	0.4	331		8.370		10.30
60.0		10.60	0.9	330		8.360		10.10

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.011	0.037	0.085	0.000	0.085	0.240	0.203
10.0		0.010	0.035	0.085	0.000	0.085		
20.0		0.010	0.034	0.085	0.000	0.085		
30.0		0.010	0.048	0.080	0.000	0.080		
50.0		0.010	0.043	0.085	0.000	0.085	0.230	0.187
60.0		0.010	0.040	0.090	0.000	0.090	0.225	0.185

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.1	0.220	0.004	3.13	300E00		000E00	260E01
10.0	27.1	0.220			000E00			
20.0	27.1	0.230						
30.0	27.0	0.240						
50.0	26.9	0.250			000E00			
60.0	26.9	0.280			100E00		000E00	340E01

DEPTH	SPC 35
1.0	900E00
10.0	
20.0	
30.0	
50.0	
60.0	800E00

C-REF-NO 021
CONS. NO 053
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 31
TIME 1904

NO. DEPTHS 07
SOUNDING 1006
BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.5	10.52	0.3	328		8.390		10.50
10.0		10.53	0.3	334		8.340		10.50
20.0		10.25	0.3	324		8.390		10.50
30.0		10.15	0.3	324		8.330		10.50
50.0		10.00	0.2					10.70
75.0		9.18	0.2					10.70
99.0		5.42	0.6	330		8.120		10.70

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.006	0.027	0.088	0.002	0.090	0.200	0.173
10.0		0.006	0.025	0.088	0.002	0.090		
20.0		0.006	0.025	0.103	0.002	0.105		
30.0		0.006	0.022	0.098	0.002	0.100		
50.0		0.006	0.022	0.109	0.001	0.110		
75.0		0.010	0.042	0.144	0.001	0.145		
99.0		0.033	0.050	0.224	0.001	0.225	0.200	0.150

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.170	0.002	4.42	100E00		000E00	700E00
10.0	27.0	0.190			000E00			
20.0	27.0	0.190						
30.0	27.0	0.210						
50.0	26.9	0.210			000E00			
75.0	26.7	0.280						
99.0	26.5	0.680			000E00		000E00	160E01

DEPTH	SPC 35
1.0	100E00
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	500E00

C-REF-NO 021
CONS. NO 054
COUNTRY 18
INSTITUTE 22

LAT 43-37-00N
LON 076-37-00W

YEAR 1967
MONTH 10
DAY 31
TIME 2027

NO. DEPTHS 09
SOUNDING 1715
BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	6.0	10.86	0.3			7.530		10.32
10.0		10.88	0.3	328		8.000		10.30
20.0		10.82	0.3	325		8.220		10.35
30.0		10.43	0.4	321		8.190		10.37
50.0		10.08	0.4	321		8.190		10.50
75.0		6.14	0.2	326		8.050		11.20
100.0		3.96	0.3	325		8.050		12.20
150.0		3.90	0.3	326		8.030		11.61
169.0		3.94	0.3	325		8.010		11.64

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.008	0.030	0.088	0.002	0.090	0.250	0.220
10.0		0.007	0.030	0.083	0.002	0.085		
20.0		0.006	0.028	0.083	0.002	0.085		
30.0		0.007	0.042	0.098	0.002	0.100		
50.0		0.005	0.027	0.103	0.002	0.105	0.225	0.198
75.0		0.018	0.035	0.198	0.002	0.200		
100.0		0.024	0.045	0.225	0.000	0.225		
150.0		0.032	0.017	0.229	0.001	0.230		
169.0		0.033	0.017	0.235	0.000	0.235	0.190	0.173

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.180	0.001	4.42	400E00		000E00	600E00
10.0	26.8	0.170			000E00			
20.0	26.7	0.170						
30.0	26.6	0.190						
50.0	26.2	0.220			000E00			
75.0	26.1	0.350						
100.0	26.1	0.410						
150.0	26.1	0.580						
169.0	26.1	0.610			000E00		000E00	800E00

DEPTH	SPC 35
1.0	800E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
169.0	800E00

C-REF-NO 021
CONS. NO 055
COUNTRY 18
INSTITUTE 22

LAT 43-32-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 31
TIME 2122

NO. DEPTHS 08
SOUNDING 1512
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	7.5	9.99	0.3	324		8.310		10.71
10.0		10.03	0.3	325		8.340		10.70
20.0		9.94	0.3	323		8.340		10.52
30.0		9.79	0.2	323		8.320		10.32
50.0		9.71	0.2	322		8.270		10.70
75.0		8.61	0.2	322		8.200		10.80
100.0		3.94	0.3	322		8.120		12.11
149.0		3.86	0.3	324		8.040		11.40

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.007	0.025	0.108	0.002	0.110	0.250	0.225
10.0		0.008	0.027	0.103	0.002	0.105		
20.0		0.005	0.020	0.109	0.002	0.110		
30.0		0.005	0.020	0.109	0.001	0.110		
50.0		0.005	0.017	0.114	0.001	0.115	0.260	0.243
75.0		0.010	0.025	0.144	0.001	0.145		
100.0		0.038	0.045	0.215	0.000	0.215		
149.0		0.037	0.012	0.234	0.001	0.235	0.200	0.188

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.190	0.002	4.18	000E00		000E00	300E00
10.0	26.6	0.190			000E00			
20.0	26.7	0.210						
30.0	26.8	0.220						
50.0	26.8	0.220			000E00			
75.0	26.5	0.300						
100.0	26.2	0.410						
149.0	26.3	0.950			000E00		000E00	400E00

DEPTH	SPC 35
1.0	200E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
149.0	600E00

C-REF-NO 021
CONS. NO 056
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 076-38-00W

YEAR 1967
MONTH 10
DAY 31
TIME 2211

NO. DEPTHS 05
SOUNDING 0340
BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.0	10.21	0.5	323		8.280		10.61
10.0		10.22	0.4	321		8.280		10.70
20.0		10.22	0.4	321		8.300		10.40
30.0		10.22	0.7	324		8.310		10.49
32.0		10.20	0.5	322		8.290		10.45

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.007	0.025	0.098	0.002	0.100	0.225	0.200
10.0		0.007	0.030	0.098	0.002	0.100		
20.0		0.007	0.030	0.098	0.002	0.100		
30.0		0.007	0.030	0.093	0.002	0.095		
32.0		0.007	0.028	0.088	0.002	0.090	0.230	0.202

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.190	0.002	3.83	100E00	200E00	000E00	200E00
10.0	26.7	0.190			000E00			
20.0	26.7	0.180						
30.0	26.8	0.210						
32.0	26.9	0.200			000E00	000E00	000E00	110E01

DEPTH	SPC 35
1.0	300E00
10.0	
20.0	
30.0	
32.0	100E00

C-REF-NO 021
CONS. NO 057
COUNTRY 18
INSTITUTE 22

LAT 43-33-00N
LON 076-21-00W

YEAR 1967
MONTH 10
DAY 31
TIME 2350

NO. DEPTHS 05
SOUNDING 0360
BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.36	0.8	340	1.6	8.270	0.9	10.60
10.0		10.37	0.9	337		8.320		10.60
20.0		10.35	0.9	337		8.330		10.49
30.0		10.30	0.9	339		8.280		10.62
34.0		10.24	1.0	348	2.1	8.140	1.4	10.39

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.047	0.029	0.055	0.097	0.003	0.100	0.375	0.320
10.0		0.023	0.045	0.092	0.003	0.095		
20.0		0.024	0.042	0.092	0.003	0.095		
30.0								
34.0		0.029	0.045	0.097	0.003	0.100	0.250	0.205

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		0.230	0.002	3.83	300E00	800E00	000E00	
10.0		0.230			400E00			
20.0		0.250						
30.0								
34.0		0.280			200E00	000E00	200E00	

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
34.0	310E01

C-REF-NO 021
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 43-42-00N
LON 076-15-00W

YEAR 1967
MONTH 11
DAY 01
TIME 0113

NO. DEPTHS 04
SOUNDING 0270
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		11.37	0.9	326	1.2	8.320	1.7	10.16
10.0		11.39	0.5	322		8.350		10.11
20.0		11.39	0.5	321		8.340		10.12
25.0		11.39	0.5	319	1.1	8.330	1.3	10.15

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.049	0.020	0.040	0.077	0.003	0.080	0.230	0.190
10.0		0.020	0.038	0.067	0.003	0.070		
20.0		0.020	0.040	0.067	0.003	0.070		
25.0		0.020	0.038	0.067	0.003	0.070	0.225	0.187

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.6	0.200	0.004	3.71	000E00	000E00	000E00	600E00
10.0	27.6	0.210			000E00			
20.0	27.5	0.210						
25.0	27.6	0.210			000E00	000E00	000E00	700E00

DEPTH	SPC 35
1.0	120E01
10.0	
20.0	
25.0	600E00

C-REF-NO 021
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 43-50-00N
LON 076-22-00W

YEAR 1967
MONTH 11
DAY 01
TIME 0223

NO. DEPTHS 05
SOUNDING 0360
BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		11.29	1.0	315		8.290		10.23
10.0		11.30	0.8	314				10.35
20.0		11.30	0.8	312				10.22
30.0		11.25	1.0	307				10.30
34.0		11.22	4.0	319				10.20

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.022	0.028	0.058	0.002	0.060	0.265	0.237
10.0		0.021	0.025	0.053	0.002	0.055		
20.0		0.018	0.025	0.053	0.002	0.055		
30.0		0.022	0.027	0.048	0.002	0.050		
34.0		0.029	0.035	0.047	0.003	0.050	0.230	0.195

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.9	0.350	0.001	3.71	400E00	200E00	000E00	100E01
10.0	27.0	0.360			400E00			
20.0	27.1	0.350						
30.0	26.9	0.410						
34.0	27.1	0.440			300E00	200E00	000E00	800E00

DEPTH	SPC 35
1.0	600E00
10.0	
20.0	
30.0	
34.0	500E00

C-REF-NO 021
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 43-55-00N
LON 076-15-00W

YEAR 1967
MONTH 11
DAY 01
TIME 0326

NO. DEPTHS 04
SOUNDING 0250
BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		11.07	0.5	310	1.4	8.380	1.3	10.17
10.0		11.09	0.8	308		8.400		10.29
20.0		11.05	0.7	309		8.430		10.56
23.0		11.05	0.9	310	1.4	8.400	1.3	10.55

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.052	0.020	0.025	0.048	0.002	0.050	0.300	0.275
10.0		0.020	0.044	0.043	0.002	0.045		
20.0		0.017	0.020	0.043	0.002	0.045		
23.0		0.017	0.020	0.043	0.002	0.045	0.270	0.250

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.6	0.430		4.42	100E01		000E00	100E01
10.0	26.7	0.410			000E00			
20.0	27.0	0.320						
23.0	27.2	0.310			400E00	400E00	000E00	900E00

DEPTH	SPC 35
1.0	140E01
10.0	
20.0	
23.0	600E00

C-REF-NO 021
CONS. NO 061
COUNTRY 18
INSTITUTE 22

LAT 44-02-00N
LON 076-33-00W

YEAR 1967
MONTH 11
DAY 01
TIME 0511

NO. DEPTHS 03
SOUNDING 0220
BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		11.32	0.9	328	1.2	7.520	2.7	10.20
10.0		11.31	0.4	331		8.000		10.35
20.0		11.25	0.4		1.4	7.890	3.3	10.25

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.040	0.017	0.020	0.073	0.002	0.075	0.220	0.200
10.0		0.016	0.032	0.068	0.002	0.070		
20.0		0.017	0.020	0.073	0.002	0.075	0.240	0.220

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.3	0.280	0.001	4.18	000E00	000E00	000E00	340E01
10.0	27.3	0.290			000E00			
20.0	27.2	0.280			000E00		000E00	340E01

DEPTH	SPC 35
1.0	200E01
10.0	
20.0	170E01

C-REF-NO 021
CONS. NO 062
COUNTRY 18
INSTITUTE 22

LAT 44-00-00N
LON 076-43-00W

YEAR 1967
MONTH 11
DAY 01
TIME 0620

NO. DEPTHS 04
SOUNDING 0320
BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		11.36	1.3	346		8.120		10.20
10.0		11.38	0.4	334		8.080		10.15
20.0		11.38	0.7	336		8.130		10.15
30.0		11.38	0.6	347		7.920		10.25

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.021	0.020	0.063	0.002	0.065	0.230	0.210
10.0		0.020	0.028	0.058	0.002	0.060		
20.0		0.019	0.015	0.058	0.002	0.060		
30.0		0.028	0.025	0.053	0.002	0.055	0.265	0.240

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.400	0.003	4.77	000E00	000E00	000E00	740E01
10.0	26.9	0.410			000E00			
20.0	27.0	0.410						
30.0	27.1	0.400			000E00	000E00	000E00	390E01

DEPTH	SPC 35
1.0	230E01
10.0	
20.0	
30.0	800E00

C-REF-NO 021
CONS. NO 063
COUNTRY 18
INSTITUTE 22

LAT 43-20-36N
LON 078-51-00W

YEAR 1967
MONTH 11
DAY 01
TIME 2126

NO. DEPTHS 05
SOUNDING 0340
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	3.5	8.67	1.0	334	1.2	8.600	1.7	11.10
10.0		8.54	1.2	335		8.600		11.10
20.0		8.38	1.2	333		8.590		10.80
30.0		8.03	0.4	328		8.590		11.00
32.0		7.99	0.4	329	0.9	8.590	1.2	10.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.041	0.015	0.025	0.125	0.003	0.128	0.215	0.190
10.0		0.020	0.022	0.123	0.002	0.125		
20.0		0.020	0.020	0.127	0.001	0.128		
30.0		0.020	0.023	0.174	0.001	0.175		
32.0	0.040	0.023	0.073	0.177	0.001	0.178	0.200	0.127

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.310	0.000		500E00		000E00	820E01
10.0	26.8	0.330			800E00			
20.0	26.9	0.370						
30.0	26.7	0.400						
32.0	26.6	0.340			400E00		000E00	430E01

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
32.0	710E01

C-REF-NO 021
CONS. NO 064
COUNTRY 18
INSTITUTE 22

LAT 43-19-18N
LON 078-54-42W

YEAR 1967
MONTH 11
DAY 01
TIME 2156

NO. DEPTHS 03
SOUNDING 0190
BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	4.0	8.53	0.7		1.2		2.3	11.10
10.0		8.42	0.7	331		8.050		11.00
17.0		8.33	0.5	330	1.3	8.080	1.3	10.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.053	0.022	0.022	0.120	0.002	0.122	0.290	0.268
10.0		0.030	0.027	0.123	0.002	0.125		
17.0	0.028	0.028	0.020	0.127	0.001	0.128	0.205	0.185

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.290	0.001		300E00		200E00	350E01
10.0	26.8	0.330			200E00			
17.0	26.9	0.340			300E00		000E00	190E01

DEPTH	SPC 35
1.0	410E01
10.0	
17.0	

C-REF-NO 021
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 43-17-54N
LON 078-58-30W

YEAR 1967
MONTH 11
DAY 01
TIME 2245

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.83	0.7	327	1.3	8.150	1.0	10.90
10.0		8.53	0.7	325		8.200		10.95
12.0		8.39	0.7	326	1.4	8.150	1.4	10.60

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.041	0.020	0.014	0.110	0.002	0.112	0.205	0.191
10.0		0.020	0.030	0.114	0.001	0.115		
12.0	0.028	0.020	0.023	0.121	0.001	0.122	0.200	0.177

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.5	0.250	0.000		110E01		000E00	420E02
10.0	26.6	0.280			110E01			
12.0	26.6	0.300			500E00		000E00	940E01

DEPTH	SPC 35
1.0	240E02
10.0	
12.0	120E02

C-REF-NO 021
CONS. NO 066
COUNTRY 18
INSTITUTE 22

LAT 43-17-24N
LON 079-01-42W

YEAR 1967
MONTH 11
DAY 01
TIME 2314

NO. DEPTHS 02
SOUNDING 0110
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.22	3.7	326	4.0	8.220	1.9	10.90
9.0		9.95	3.4	325	4.9	8.230	1.1	10.75

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.076	0.050	0.044	0.053	0.004	0.057	0.275	0.231
9.0	0.076	0.050	0.055	0.061	0.004	0.065	0.290	0.235

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.290	0.000				160E01	480E02
9.0	27.0	0.270						250E02

DEPTH	SPC 35
1.0	220E01
9.0	370E02

C-REF-NO 021
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 43-18-48N
LON 079-06-00W

YEAR 1967
MONTH 11
DAY 01
TIME 2354

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.91	4.2	330	4.9	8.150	2.3	10.60
10.0		10.89	4.2	326		8.180	1.9	10.70
12.0		10.88			4.8			

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.094	0.055	0.045	0.036	0.004	0.040	0.280	0.235
10.0								
12.0		0.056	0.045	0.031	0.004	0.035		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.7	0.200	0.002		800E00		300E01	
10.0								
12.0	27.6	0.220					220E01	

DEPTH	SPC 35
1.0	
10.0	
12.0	

C-REF-NO 021
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 43-16-48N
LON 079-09-18W

YEAR 1967
MONTH 11
DAY 02
TIME 0028

NO. DEPTHS 03
SOUNDING 0160
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.45	5.1	325	6.1	8.180	2.4	10.80
10.0		10.27	6.2	325		8.160		10.95
14.0		6.14	1.8	324	4.1	7.980	1.4	10.50

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.090	0.063	0.065	0.045	0.005	0.050	0.340	0.285
10.0		0.060	0.067	0.043	0.005	0.048		
14.0	0.066	0.054	0.020	0.083	0.002	0.085	0.210	0.190

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.330	0.006				120E01	
10.0	26.2	0.350						
14.0	26.8	0.720					120E01	

DEPTH	SPC 35
1.0	
10.0	
14.0	

C-REF-NO 021
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 43-18-24N
LON 079-12-42W

YEAR 1967
MONTH 11
DAY 02
TIME 0114

NO. DEPTHS 07
SOUNDING 0816
BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.74	2.5	325	3.1	8.190	1.8	10.90
10.0		8.35	1.1	325		8.220		11.30
20.0		8.12	0.4	324		8.200		10.95
30.0		8.03	0.3	323		8.160		10.90
50.0		5.90	0.2	325	0.5	8.000		11.30
75.0		4.35	0.6	326		7.940		11.10
79.0		4.33	0.6	326	1.2	7.930	1.9	11.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.067	0.027	0.027	0.108	0.002	0.110	0.220	0.193
10.0		0.023	0.023	0.123	0.002	0.125		
20.0		0.020	0.012	0.132	0.001	0.133		
30.0		0.020	0.018	0.131	0.001	0.132		
50.0	0.038	0.040	0.015	0.177	0.001	0.178	0.165	0.150
75.0		0.060	0.042	0.204	0.001	0.205		
79.0	0.065	0.060	0.008	0.199	0.001	0.200	0.160	0.152

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.8	0.310	0.002		200E01		200E00	
10.0	26.8	0.320			110E01			
20.0	26.7	0.340						
30.0	26.7	0.340						
50.0	26.6	0.560			200E00			
75.0	26.5	0.840						
79.0	26.5	0.800			300E00		000E00	110E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
79.0	100E02

C-REF-NO 021
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT 43-19-48N
LON 079-09-00W

YEAR 1967
MONTH 11
DAY 02
TIME 0200

NO. DEPTHS 07
SOUNDING 0841
BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.70	4.1	326	4.5	8.210	2.9	11.10
10.0		8.58		324		8.190		10.90
20.0		8.21	0.8	324		8.150		10.90
30.0		7.96	0.5	324		8.140		11.10
50.0		6.61	0.3	324	0.9	8.040		11.20
75.0		4.39	0.4	326		7.950		11.30
82.0		4.35	0.5	326	1.0	7.910	1.6	11.20

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.099	0.060	0.062	0.037	0.005	0.032	0.290	0.228
10.0		0.023	0.023	0.104	0.001	0.105		
20.0		0.024	0.018	0.114	0.001	0.115		
30.0		0.020	0.020	0.124	0.001	0.125		
50.0	0.045	0.029	0.012	0.154	0.001	0.155	0.165	0.153
75.0		0.055	0.035	0.199	0.001	0.200		
82.0	0.059	0.055	0.015	0.199	0.001	0.200	0.160	0.145

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.5	0.250	0.001				460E01	
10.0	27.0	0.280						
20.0	27.0	0.300						
30.0	26.8	0.320						
50.0	26.7	0.450			700E00			
75.0	26.6	0.790						
82.0	26.6	0.800			130E01		000E00	390E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
82.0	180E02

C-REF-NO 021
CONS. NO 071
COUNTRY 18
INSTITUTE 22

LAT 43-19-24N
LON 079-01-54W

YEAR 1967
MONTH 11
DAY 02
TIME 0253

NO. DEPTHS 03
SOUNDING 0180
BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.51	3.6	328	2.2	8.200	3.1	10.80
10.0		9.42	2.0	324		8.230		10.90
16.0		8.55	1.2	326	1.6	8.160	2.7	10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.111	0.060	0.055	0.041	0.004	0.045	0.285	0.230
10.0		0.035	0.027	0.077	0.003	0.080		
16.0	0.052	0.025	0.018	0.109	0.001	0.110	0.225	0.207

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.240	0.001		000E00		300E01	780E02
10.0	26.9	0.240						
16.0	26.7	0.290			440E01		100E01	930E02

DEPTH	SPC 35
1.0	630E02
10.0	
16.0	

C-REF-NO 021
CONS. NO 072
COUNTRY 18
INSTITUTE 22

LAT 43-20-54N
LON 078-58-12W

YEAR 1967
MONTH 11
DAY 02
TIME 0336

NO. DEPTHS 06
SOUNDING 0780
BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.63	1.3	327	1.5	8.180	3.3	10.90
10.0		8.61	1.2	327		8.100		10.60
20.0		8.07	0.8	324		8.150		11.10
30.0		7.73	0.3	324		8.140		10.90
50.0		6.89	0.3	325	1.8	8.070		10.80
75.0		4.83	1.0	328	1.3	7.890	2.0	10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.057	0.030	0.040		0.002		0.235	0.195
10.0		0.025	0.020		0.002			
20.0			0.018		0.001			
30.0			0.023		0.001			
50.0	0.045	0.035	0.032		0.001		0.190	0.158
75.0	0.087	0.060	0.018		0.001			0.172

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.300	0.003		100E01		000E00	140E01
10.0	26.7	0.300			300E00			
20.0	26.7	0.280						
30.0	26.6	0.330						
50.0	26.6	0.450			000E00			
75.0	26.5	0.920			700E00		000E00	100E01

DEPTH	SPC 35
1.0	800E00
10.0	
20.0	
30.0	
50.0	
75.0	170E01

C-REF-NO 021
CONS. NO 073
COUNTRY 18
INSTITUTE 22

LAT 43-22-18N
LON 078-54-18W

YEAR 1967
MONTH 11
DAY 02
TIME 0419

NO. DEPTHS 07
SOUNDING 0923
BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.31	1.0	322	1.0	8.210	2.0	11.20
10.0		7.68	0.3	326		8.150		11.15
20.0		7.54	0.3	325		8.150		11.20
30.0		7.51	0.3	325		8.110		11.10
50.0		6.65			2.2			11.20
75.0		3.99		326		8.020		
91.0		3.96		325		8.020		
75.0			0.3					11.65
91.0			0.3		0.7		1.7	11.80

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.063	0.027	0.025		0.002		0.230	0.205
10.0		0.021	0.010		0.001			
20.0		0.022	0.013		0.001			
30.0		0.023	0.022		0.001			
50.0	0.047	0.033	0.017		0.001		0.185	0.168
75.0		0.058	0.019		0.001			
91.0		0.060	0.015		0.001			
75.0								
91.0	0.055						0.140	0.125

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.5	0.280	0.004					
10.0	26.5	0.300			300E00			
20.0	26.5	0.340						
30.0	26.4	0.350						
50.0	26.4	0.380			000E00			
75.0		0.700						
91.0		0.750			100E00		100E00	870E01
75.0	26.3							
91.0	26.3							

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
91.0	320E01
75.0	
91.0	

C-REF-NO 021
CONS. NO 074
COUNTRY 18
INSTITUTE 22

LAT 43-23-48N
LON 078-50-48W

YEAR 1967
MONTH 11
DAY 02
TIME 0528

NO. DEPTHS 07
SOUNDING 1006
BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.09	0.6	327	1.0	8.220	1.2	11.20
10.0		8.04	0.5	323		8.240		11.50
20.0		7.89	0.5	323		8.220		11.02
30.0		7.69	0.5	322		8.210		11.04
50.0		6.42	0.5	322	0.8	8.120		10.99
75.0		4.07	0.5	323		8.060		12.05
98.0		4.03	0.6	326	0.8	8.000	0.6	12.18

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.050	0.032	0.015		0.000		0.250	0.235
10.0		0.024	0.018		0.000			
20.0		0.018	0.018		0.001			
30.0		0.020	0.020		0.001			
50.0		0.036	0.025		0.001		0.190	0.165
75.0		0.050	0.013		0.001			
98.0	0.050	0.057	0.020		0.001		0.185	0.165

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.280	0.002		200E00		000E00	170E02
10.0	26.4	0.280			200E00			
20.0	26.3	0.290						
30.0	26.3	0.320						
50.0	26.3	0.510			000E00			
75.0	26.3	0.600						
98.0	26.3	0.600						

DEPTH	SPC 35
1.0	460E01
10.0	
20.0	
30.0	
50.0	
75.0	
98.0	

C-REF-NO 021
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 43-25-18N
LON 078-54-12W

YEAR 1967
MONTH 11
DAY 02
TIME 0630

NO. DEPTHS 08
SOUNDING 1152
BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.29	0.5	322	0.9	8.170	1.7	10.80
10.0		8.33	0.4	319		8.200		10.98
20.0		8.30	0.4	323		8.200		11.10
30.0		8.05	0.4	319		8.190		11.23
50.0		7.25	0.3	320	0.8	8.180		11.32
75.0		5.60	0.5	325		7.930		11.10
100.0		4.06	0.7	322		7.900		11.54
113.0		4.08	0.8	323	1.2	7.980	1.0	11.62

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.020	0.030			0.004		0.240	
10.0		0.020	0.023		0.004			
20.0		0.020	0.020		0.004			
30.0		0.024	0.020		0.004			
50.0	0.034	0.030	0.047		0.003		0.200	0.153
75.0		0.056	0.030		0.002			
100.0		0.067	0.008		0.002			
113.0		0.068	0.008		0.002		0.160	0.152

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.200	0.004		100E00		000E00	500E00
10.0	26.4	0.300			100E00			
20.0	26.5	0.310						
30.0	26.6	0.310						
50.0	26.6	0.350			100E00			
75.0	26.4	0.680						
100.0	26.4	0.900						
113.0	26.4	0.970			300E00		000E00	110E01

DEPTH	SPC 35
1.0	130E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
113.0	800E00

C-REF-NO 021
CONS. NO 076
COUNTRY 18
INSTITUTE 22

LAT 43-23-54N
LON 078-58-00W

YEAR 1967
MONTH 11
DAY 02
TIME 0740

NO. DEPTHS 08
SOUNDING 1067
BT SLIDE NO 076

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		7.72	0.4	324	0.7	8.230	1.2	11.04
10.0		7.69	0.4	327		7.780		11.33
20.0		7.68	0.4	321		8.220		11.42
30.0		7.43	0.5	329		8.140		11.46
50.0		6.87	0.3	329	0.6	8.150		11.50
75.0		6.17	0.3	335		7.610		11.43
100.0		4.10	0.4	336		7.540		11.32
104.0		4.09	0.3	333	0.7	7.650	1.3	11.61

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.040	0.024	0.015		0.004		0.215	0.200
10.0		0.023	0.010		0.003			
20.0		0.023	0.013		0.003			
30.0		0.026	0.014		0.004			
50.0	0.047	0.037	0.020		0.003		0.200	0.180
75.0		0.034	0.022		0.002			
100.0		0.063	0.018		0.002			
104.0		0.060	0.012		0.002		0.200	0.188

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.290	0.002		000E00			130E01
10.0	26.7	0.290			000E00			
20.0	26.7	0.300						
30.0	26.6	0.350						
50.0	26.5	0.370			000E00			
75.0	26.5	0.360						
100.0	26.5	0.820						
104.0	26.5	0.890			200E00		000E00	230E01

DEPTH	SPC 35
1.0	800E00
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
104.0	300E00

C-REF-NO 021
CONS. NO 077
COUNTRY 18
INSTITUTE 22

LAT 43-22-36N
LON 079-01-48W

YEAR 1967
MONTH 11
DAY 02
TIME 0841

NO. DEPTHS 07
SOUNDING 0975
BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.23	0.9	321	1.4	8.210	1.1	10.82
10.0		8.21	1.0	321		8.220		11.00
20.0		8.16	0.8	318		8.150		11.23
30.0		7.98	0.6	322		8.200		11.51
50.0		7.26	0.4	330	0.8	8.170		11.21
75.0		4.80	0.7	326		8.020		11.42
95.0		4.41	0.5	325	1.1	7.970	1.1	10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.059	0.028	0.038		0.005		0.250	0.212
10.0		0.022	0.019		0.005			
20.0		0.022	0.020		0.005			
30.0		0.020	0.017		0.004			
50.0	0.030	0.025	0.012		0.003		0.150	0.138
75.0		0.058	0.025		0.002			
95.0	0.078	0.032	0.025		0.002		0.150	0.125

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.280			800E00		000E00	600E00
10.0	26.8	0.290			600E00			
20.0	26.7	0.280						
30.0	26.7	0.290						
50.0	26.5	0.340			100E00			
75.0	26.4	0.800						
95.0	26.4	0.900			200E00		000E00	200E00

DEPTH	SPC 35
1.0	500E00
10.0	
20.0	
30.0	
50.0	
75.0	
95.0	300E00

C-REF-NO 021
CONS. NO 078
COUNTRY 18
INSTITUTE 22

LAT 43-21-12N
LON 079-05-18W

YEAR 1967
MONTH 11
DAY 02
TIME 0940

NO. DEPTHS 07
SOUNDING 0902
BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		10.25	2.9	319	4.0	8.200	1.5	10.70
10.0		9.63	2.7	322		8.230		10.72
20.0		8.02	0.4	323		8.220		10.92
30.0		7.74	0.4	322		8.210		11.10
50.0		6.81	0.4	319	0.9	8.150		10.94
75.0		4.74	0.7	323		8.040		10.68
88.0		4.70	0.8	323	1.2	8.020	1.3	10.90

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.081	0.053	0.050		0.006		0.275	0.225
10.0		0.040	0.038		0.006			
20.0		0.020	0.020		0.004			
30.0		0.022	0.012		0.003			
50.0	0.039	0.035	0.040		0.003		0.160	0.120
75.0		0.062	0.031		0.002			
88.0	0.039	0.062	0.013		0.002		0.170	0.157

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	27.0	0.230	0.002				290E01	690E02
10.0	27.0	0.270						
20.0	26.7	0.300						
30.0	26.7	0.330						
50.0	26.6	0.460			300E00			
75.0	26.5	0.890						
88.0	26.5	0.900			130E01		200E00	

DEPTH	SPC 35
1.0	620E02
10.0	
20.0	
30.0	
50.0	
75.0	
88.0	660E01

C-REF-NO 021
CONS. NO 079
COUNTRY 18
INSTITUTE 22

LAT 43-22-54N
LON 079-08-42W

YEAR 1967
MONTH 11
DAY 02
TIME 1035

NO. DEPTHS 08
SOUNDING 1054
BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.11	0.6	323	0.9	8.210	1.6	11.01
10.0		8.13	0.4	322		8.230		11.12
20.0		8.11	0.4	322		8.230		11.20
30.0		7.96	0.5	319		8.170		11.12
50.0		7.27	0.4	319	0.7	8.110		11.07
75.0		4.44	0.4	321		7.960		11.41
100.0		4.18	0.5	322		7.970		11.60
103.0		4.17	0.4	321	0.7	7.990	1.2	11.42

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.037	0.024	0.020		0.005		0.280	0.260
10.0		0.030	0.020		0.005			
20.0		0.020	0.015		0.005			
30.0		0.028	0.050		0.005			
50.0	0.026	0.030	0.018		0.003		0.250	0.232
75.0					0.002			
100.0		0.043	0.035		0.002			
103.0	0.030	0.028	0.038		0.002		0.210	0.172

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.4	0.320			110E01		000E00	680E01
10.0	26.4	0.350			300E00			
20.0	26.5	0.350						
30.0	26.4	0.370						
50.0	26.3	0.420			200E00			
75.0	26.3	0.800						
100.0	26.3	0.930						
103.0	26.5	0.900			000E00		000E00	240E01

DEPTH	SPC 35
1.0	630E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
103.0	500E00

C-REF-NO 021
CONS. NO 080
COUNTRY 18
INSTITUTE 22

LAT 43-24-12N
LON 079-05-00W

YEAR 1967
MONTH 11
DAY 02
TIME 1128

NO. DEPTHS 08
SOUNDING 1091
BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0		8.66	1.1	321	1.9	8.120	1.3	11.20
10.0		8.65	1.1	320		8.200		10.98
20.0		8.51	1.0	317		8.220		11.31
30.0		7.78	0.4	314		8.210		11.27
50.0		7.46	0.3	314	0.6	8.170		11.04
75.0		6.31	0.3	316		8.100		11.36
100.0		4.53	0.6	319		8.010		11.04
107.0		4.50	0.7	317	0.6	7.990	1.2	11.15

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.020	0.025	0.020		0.005		0.300	0.280
10.0		0.024	0.025		0.005			
20.0		0.020	0.013		0.005			
30.0		0.024	0.011		0.004			
50.0	0.032	0.042	0.018		0.003		0.320	0.302
75.0		0.058	0.010		0.002			
100.0					0.002			
107.0	0.068	0.060	0.047		0.003		0.230	0.183

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.5	0.270	0.000		190E01		800E00	
10.0	26.5	0.270						
20.0	26.4	0.280						
30.0	26.4	0.310						
50.0	26.4	0.320			900E00			
75.0	26.3	0.520						
100.0	26.3	0.890						
107.0	26.3	0.860			100E00		000E00	140E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
107.0	520E01

C-REF-NO 021
CONS. NO 081
COUNTRY 18
INSTITUTE 22

LAT 43-25-30N
LON 079-01-24W

YEAR 1967
MONTH 11
DAY 02
TIME 1222

NO. DEPTHS 08
SOUNDING 1121
BT SLIDE NO 081

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.0	7.75	0.2	331	0.7	8.150		11.30
10.0		7.75	0.2	330		8.170		11.10
20.0		7.72	0.2	324		8.190		11.10
30.0		7.53	0.1	324		8.150		11.10
50.0		6.87	0.1	325	0.5	8.120		11.20
75.0		4.48	0.2	326		8.050		11.30
100.0		4.20	0.4	333		8.010		11.20
110.0			0.6	329	1.2	7.950	1.8	11.10

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0	0.055			0.152	0.003	0.155	0.195	
10.0		0.016	0.018	0.147	0.003	0.150		
20.0		0.018	0.015	0.142	0.003	0.145		
30.0		0.025	0.020	0.151	0.004	0.155		
50.0	0.040	0.026	0.025	0.167	0.003	0.170	0.175	0.150
75.0		0.050	0.010	0.228	0.002	0.230		
100.0		0.051	0.010	0.225	0.010	0.235		
110.0		0.090	0.015	0.232	0.002	0.235	0.190	0.175

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.370	0.002		100E00		000E00	190E01
10.0	26.8	0.390			300E00			
20.0	26.9	0.400						
30.0	27.3	0.400						
50.0	27.2	0.470			100E00			
75.0	27.3	0.900						
100.0	29.1	1.050						
110.0	27.5	0.950			000E00		000E00	530E01

DEPTH	SPC 35
1.0	280E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
110.0	420E01

C-REF-NO 021
CONS. NO 082
COUNTRY 18
INSTITUTE 22

LAT 43-27-00N
LON 078-57-48W

YEAR 1967
MONTH 11
DAY 02
TIME 1345

NO. DEPTHS 08
SOUNDING 1289
BT SLIDE NO 082

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.5	8.07	0.2	327	0.8	8.220	1.2	11.10
10.0		8.07	0.2	328		8.240		11.10
20.0		7.94	0.2	325		8.180		11.10
30.0		7.77	0.1	327		8.150		11.10
49.0		7.27	0.2	325	0.6	8.140		11.10
74.0		5.43	0.2	332		8.040		11.30
99.0		4.12	0.2	328		7.950		11.00
124.0		4.09					1.3	10.70

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.035	0.025	0.141	0.004	0.145		
10.0		0.024	0.018	0.131	0.004	0.135		
20.0		0.020	0.035	0.141	0.004	0.145		
30.0		0.020	0.015	0.138	0.004	0.142		
49.0		0.027	0.035	0.162	0.003	0.165	0.190	0.155
74.0		0.045	0.012	0.197	0.003	0.200		
99.0		0.060	0.008	0.233	0.002	0.235		
124.0			0.020			0.230		

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.0	0.310	0.000					
10.0	26.0	0.320						
20.0	26.0	0.310						
30.0	25.9	0.360						
49.0	25.9	0.350						
74.0	25.8	0.650						
99.0	25.7	0.980						
124.0		1.400						

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
49.0	
74.0	
99.0	
124.0	

C-REF-NO 021
CONS. NO 083
COUNTRY 18
INSTITUTE 22

LAT 43-26-00N
LON 079-08-30W

YEAR 1967
MONTH 11
DAY 02
TIME 1509

NO. DEPTHS 08
SOUNDING 1176
BT SLIDE NO 083

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	BOD W	O2 W
1.0	5.0	8.05	0.2	332	1.0	8.230	1.6	11.10
10.0		8.09	0.2	330		8.210		11.00
20.0		7.80	0.1	331		8.200		11.10
30.0		7.28	0.1	333		8.170		11.10
50.0		6.81	0.1	328	0.7	8.120		11.10
75.0		4.22	0.2	329		8.010		11.20
100.0		4.23	0.1	332		7.970		11.00
115.0		4.22	0.2	334	0.9	7.970	1.1	11.30

DEPTH	T PO4	R PO4	NH3	NO3 NF	NO2 NF	T NO3	TKJ N	ORG N
1.0		0.028	0.015	0.145	0.005	0.150	0.210	0.195
10.0		0.018	0.010	0.140	0.005	0.145		
20.0		0.020	0.010	0.146	0.004	0.150		
30.0		0.023	0.010	0.161	0.004	0.165		
50.0		0.025	0.012	0.172	0.003	0.175	0.150	0.138
75.0		0.058	0.020	0.228	0.002	0.230		
100.0		0.055	0.015	0.278	0.002	0.280		
115.0		0.056	0.010	0.228	0.002	0.230	0.150	0.140

DEPTH	CL	R SIO2	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	26.7	0.330						
10.0	26.5	0.330						
20.0	26.5	0.360						
30.0	26.4	0.400						
50.0	26.4	0.420						
75.0	26.2	0.920						
100.0	26.3	0.930						
115.0	26.8	0.940						

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
115.0	