



1967

LIMNOLOGICAL DATA REPORT NO. 2

# LAKE ONTARIO

CRUISE 67 - 007, July 25 - 30

CRUISE 67 - 009, August 5 - 10

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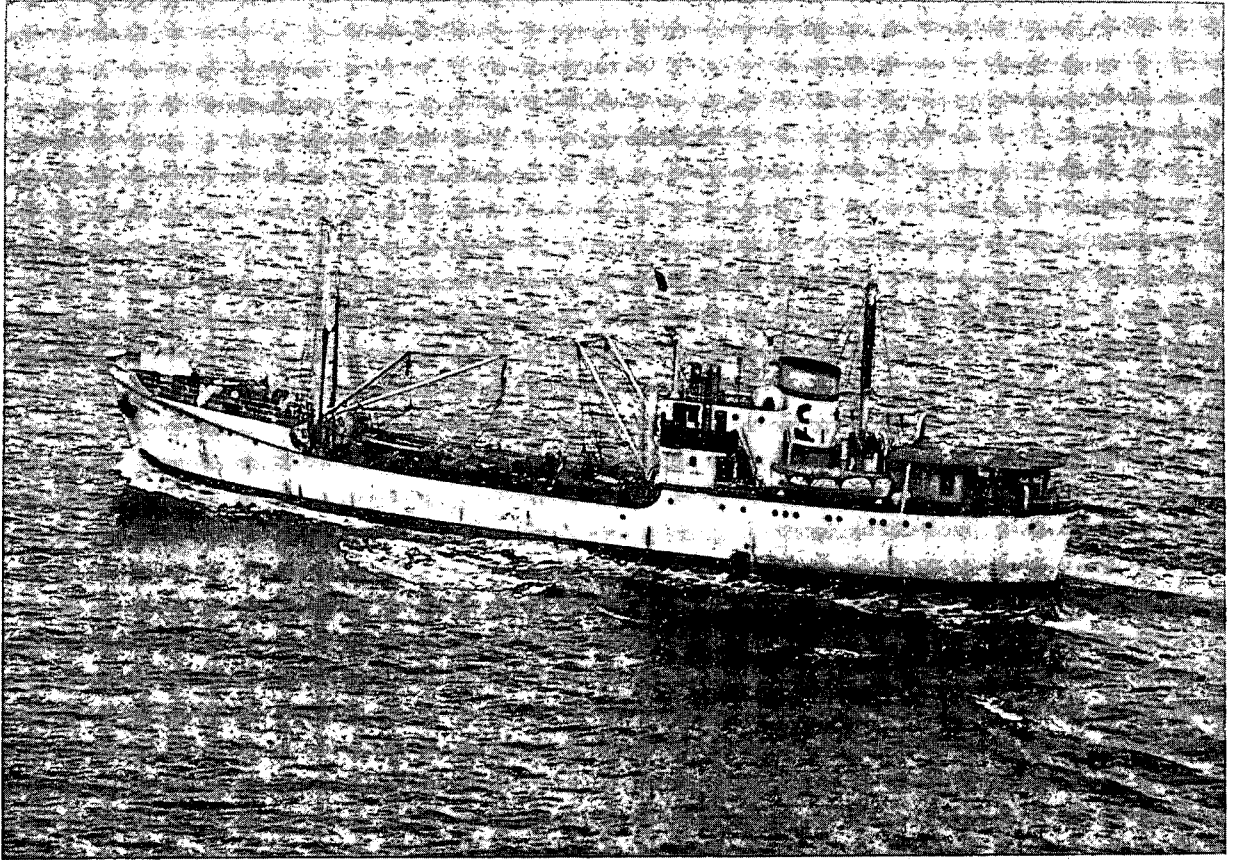
DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

CANADA



*M.V. "Theron"*



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**CANADA CENTRE FOR INLAND WATERS  
BURLINGTON, ONTARIO**



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## 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.

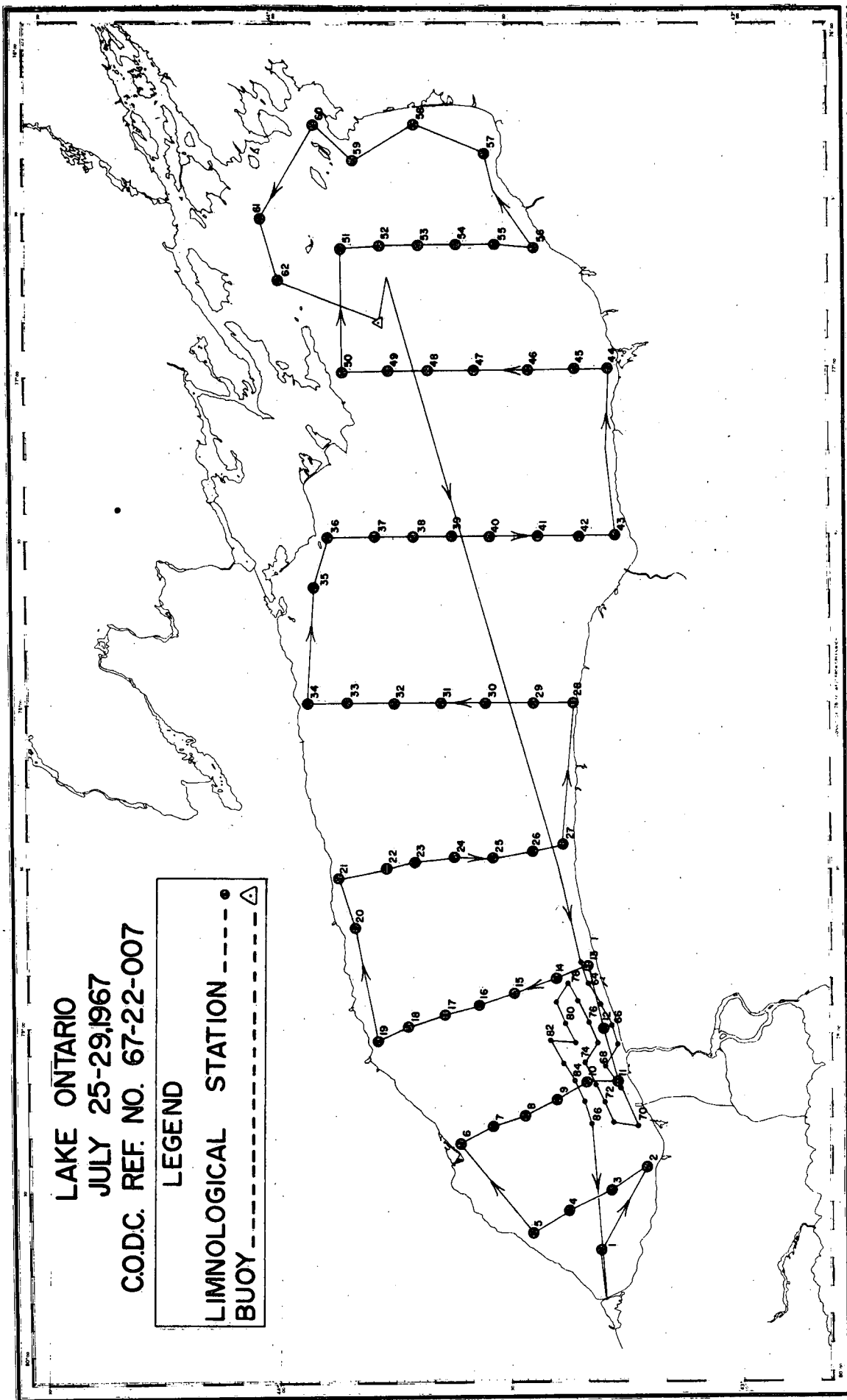
The Canadian Government's program developed in response to a request directed to the International Joint Commission by the Governments of Canada and the United States, that information relating to pollution of Lake Ontario, Lake Erie, and the international section of the St. Lawrence River be gathered. 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.

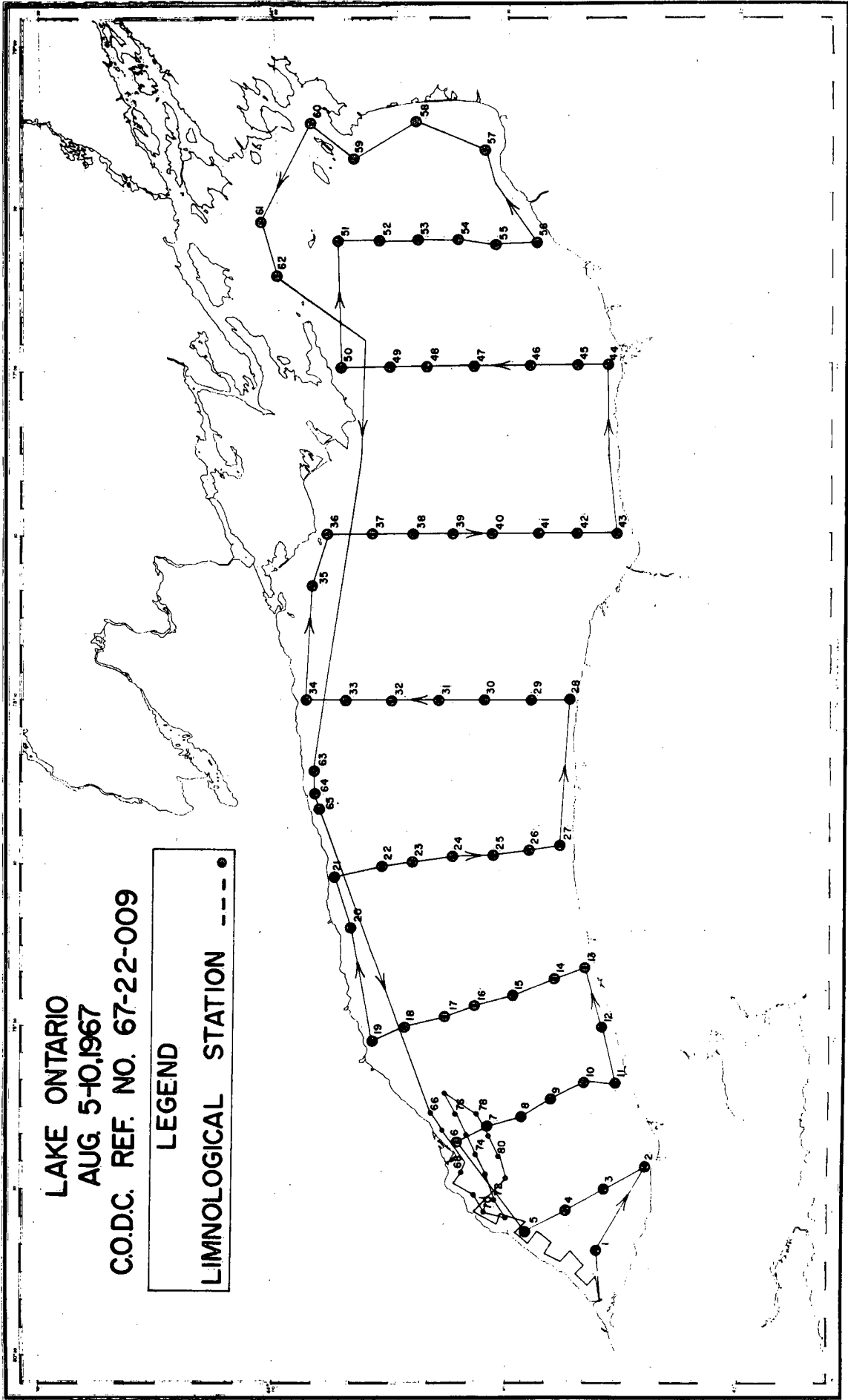
LAKE ONTARIO  
 JULY 25-29, 1967  
 C.O.D.C. REF. NO. 67-22-007

LEGEND  
 LIMNOLOGICAL STATION ---●---  
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LAKE ONTARIO  
 AUG 5-10, 1967  
 C.O.D.C. REF. NO. 67-22-009

LEGEND  
 LIMNOLOGICAL STATION ---●---





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

Data Report No.	1			2
	67-001	67-003	67-005	67-007
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.



## 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 <sub>3</sub> /L	1	219
Alkalinity, total (colorimetric)	TC ALK	mg CaCO <sub>3</sub> /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)	O2 W	mg O <sub>2</sub> /L	2	245
Oxygen, dissolved (Probe)	D O2 P	mg O <sub>2</sub> /L	2	246
Phosphate, total	T PO4	mg PO <sub>4</sub> /L	3	260
Phosphate, reactive	R PO4	mg PO <sub>4</sub> /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 <sub>4</sub> /L	1	280
Chloride, NF	CL	mg Cl/L	1	290
Silica, reactive	R SIO2	mg SIO <sub>2</sub> /L	3	295
Hardness, total	HARD	mg CaCO <sub>3</sub> /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 <sub>6</sub> H <sub>5</sub> OH/L	3	410
Chlorophyll A	CHLORA	mg/m <sup>3</sup>	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 CIM2 (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 mμ 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 NH<sub>3</sub> 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).

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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).

Chlorophyll 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 EC 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).

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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.

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**CRUISE 67 - 007, July 25 - 30**

C-REF-NO 007
CONS. NO 001
COUNTRY 18
INSTITUTE 22

LAT 43-19-00N  
 LON 079-39-00W  
 YEAR 1967  
 MONTH 07  
 DAY 25  
 TIME 1340

NO. DEPTHS 06  
 SOUNDING 0579  
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	9.76	1.2	324	3.2	8.195		
10.0		8.27	1.2	330		8.168		
20.0		4.73	0.7	326		8.092		
30.0		4.20	0.7	326		8.090		
50.0		4.12	1.0	330	3.0	8.072		
57.0		4.32	1.2	331	5.2	8.058		

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.60	0.052	0.034	0.105	0.004	0.270	0.236	27.9
10.0	11.90	0.040	0.037	0.140	0.005			26.7
20.0	12.60	0.020	0.038	0.210	0.008			26.4
30.0	12.60	0.067	0.067	0.230	0.010			26.2
50.0	12.70	0.010	0.047	0.247	0.009	0.250	0.203	26.4
57.0	12.40	0.014		0.252	0.009	0.320		26.5

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.490		0.001	9.87	500E00	000E00	000E00	460E02
10.0	0.990				100E01			
20.0	0.700							
30.0	0.740							
50.0	0.950							
57.0	0.830				700E00	000E00	000E00	550E02

DEPTH	SPC 35
1.0	290E02
10.0	
20.0	
30.0	
50.0	
57.0	780E01

C-REF-NO 007
CONS. NO 002
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 25  
TIME 1513

NO. DEPTHS 03  
SOUNDING 0213  
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	19.30	1.2	304	7.6	8.382		
10.0		7.08	0.8	333		8.032		
19.0		5.57	1.0	330	2.5	7.966		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.044	0.080	0.030	0.004	0.250	0.170	28.1
10.0	11.40	0.030	0.040	0.155	0.010			26.4
19.0	12.00	0.082	0.070	0.240	0.010	0.410	0.340	26.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCD	MF STR	SPC 20
1.0	0.660			5.31				
10.0	0.780							
19.0	0.880							

DEPTH	SPC 35
1.0	
10.0	
19.0	



C-REF-NO 007  
 CONS. NO 003  
 CCOUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 25  
 TIME 1620

NO. DEPTHS 17  
 SOUNDING 0905  
 BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.2	17.61	1.0	313	5.3	7.975		1.1
4.0		17.22	1.1	315	5.1	8.367		
7.0		10.98	1.3	323	3.6	8.235		
10.0		8.20	1.1	322	5.6	8.130		
13.0		6.24	0.8	327	5.4	8.100		
16.0		5.39	0.8	327	4.2	8.112		
19.0			0.6	329	1.9	8.128		
22.0		4.53	0.7	329	1.6	8.125		
25.0		4.42	0.8	324	3.0	8.125		
28.0		4.34	0.8	316	3.0	8.072		
31.0		4.30	0.7	326	3.9	8.098		
34.0		4.39	0.3	322	3.0	8.132		
37.0		4.39	0.6	323	3.2	8.105		
40.0		4.33	0.7	327	2.7	8.100		
50.0		4.15	0.8	331	3.2	8.135		
75.0		4.06	1.1	324	1.8	8.058		
80.0		4.13	64.0	330	6.8	7.945		1.8

DEPTH	U O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.95	0.030	0.038	0.055	0.005	0.390	0.352	27.8
4.0	10.00	0.032	0.033	0.045	0.004	0.280	0.247	26.7
7.0	10.10	0.041	0.025	0.055	0.005	0.320	0.295	26.8
10.0	10.70	0.021	0.027	0.093	0.003	0.360	0.333	26.6
13.0	11.20	0.020	0.048	0.145	0.004	0.290	0.242	26.6
16.0	11.60	0.020	0.076	0.180	0.007	0.420	0.344	26.0
19.0	11.90	0.023	0.040	0.200	0.011			27.0
22.0	12.20	0.030	0.043	0.223	0.017	0.320	0.277	26.0
25.0	12.20	0.020	0.025	0.230	0.018	0.370	0.345	26.1
28.0	12.20	0.045	0.027	0.235	0.022	0.290	0.263	26.1
31.0	12.10	0.047	0.018	0.237	0.014	0.510	0.492	26.1
34.0	12.20	0.050	0.017	0.237	0.015	0.320	0.303	25.7
37.0	12.10	0.055	0.028	0.240	0.017	0.380	0.352	26.1
40.0	12.10	0.060	0.020	0.240	0.017	0.370	0.350	25.8
50.0	12.10	0.073	0.014	0.245	0.016	0.350	0.336	25.1
75.0	11.70	0.110	0.024	0.257	0.019	0.260	0.236	25.9
80.0	9.60			0.287		0.320		28.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.510		0.001	5.54	510E01		000E00	400F01
4.0	0.670							
7.0	0.610							
10.0	0.160				200E00			
13.0	0.500							
16.0	0.420							
19.0	0.470							
22.0	0.370							
25.0	0.510							
28.0	0.420							
31.0	0.780							
34.0	0.740							
37.0	0.910							
40.0	0.770							
50.0	0.880				000E00			
75.0	0.900							
80.0							000E00	

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	150E02	197.0	88.0	28.1	38.400	7.600	1.300	11.700
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		198.0	86.1	27.5	40.800	8.100	1.400	13.000
75.0								
80.0	220E02	206.0	93.3	27.5	41.200	8.300	1.400	12.000

C-REF-NO 007  
 CONS. NO 004  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 25  
 TIME 1926

NO. DEPTHS 07  
 SOUNDING 0945  
 BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	15.99	2.4	311	4.7	8.194		
10.0		6.53	1.6	330		8.208		
20.0		4.41	0.8	324		8.122		
30.0		4.13	0.5	332		8.138		
50.0		3.98	1.0	326	3.3	8.188		
75.0		3.95	0.8			8.190		
93.0		3.91	1.8	325	12.0	8.152		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.90	0.050		0.003	0.001	0.310		26.5
10.0	11.50	0.025		0.132	0.003			26.0
20.0	12.00	0.020		0.210	0.010			25.9
30.0	12.40	0.048		0.235	0.014			25.9
50.0	12.50	0.076						
75.0	12.30	0.076		0.242	0.012			25.8
93.0	11.30	0.135		0.260	0.010	0.280		26.0

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.470		0.003	4.19	000E00		000E00	160F02
10.0	0.470				000E00			
20.0	0.560							
30.0	0.630							
50.0					000F00			
75.0	0.650							
93.0	1.000				110E01		000E00	290F02

DEPTH	SPC 35
1.0	110E02
10.0	
20.0	
30.0	
50.0	
75.0	
93.0	880E01

C-REF-NO 007
CONS. NO 005
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 25  
TIME 2035

NO. DEPTHS 04  
SOUNDING 0299  
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	5.5	6.08	2.5	333	1.5	8.079		
10.0		5.99	1.3	338		8.036		
19.0		4.43	1.3	305		8.045		
27.0		4.30	1.8	324	4.5	8.111		

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.70	0.055	0.030	0.223	0.010	0.320	0.290	25.5
10.0	11.80	0.055	0.039	0.223	0.010			26.0
19.0	12.10	0.076	0.076	0.230	0.009			26.0
27.0	11.80	0.078	0.060	0.235	0.009	0.400	0.340	26.0

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.650			4.87				
10.0	0.830							
19.0	0.580							
27.0	0.740							

DEPTH	SPC 35
1.0	
10.0	
19.0	
27.0	

C-RFF-NO 007
CONS. NO 006
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 25  
TIME 2212

NO. DEPTHS 03  
SOUNDING 0158  
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	6.62	2.6	308	1.7	8.266		
10.0		4.28	1.8	311		8.096		
12.0		4.20	1.3	319	2.9	8.145		

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.80	0.054	0.041	0.200	0.008	0.320	0.279	26.5
10.0	12.00	0.040	0.039	0.227	0.012			26.2
12.0	11.90	0.060	0.041	0.230	0.013	0.290	0.249	26.2

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.520			6.04				
10.0	0.570							
12.0	1.050							

DEPTH	SPC 35
1.0	
10.0	
12.0	

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

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

YEAR 1967  
 MONTH 07  
 DAY 25  
 TIME 2303

NO. DEPTHS 07  
 SOUNDING 1043  
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	12.04	2.8	312	1.9	8.725		
10.0		5.10	1.1	307		8.311		
20.0		4.05	0.5	311		8.192		
30.0		4.02	1.0	320		8.200		
50.0		3.99	0.5	318		8.200		
75.0		3.89	0.8	311		8.179		
99.0		3.75	0.8	323	3.0	8.156		

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.70	0.062	0.025	0.030	0.002	0.350	0.325	26.6
10.0	12.90	0.050	0.046	0.190	0.007			26.3
20.0	13.70	0.078	0.035	0.225	0.010			27.1
30.0	13.00	0.075	0.039	0.230	0.010			26.3
50.0	13.20	0.080	0.042	0.230	0.008	0.290	0.248	26.1
75.0	14.30	0.090	0.036	0.230	0.006			26.2
99.0	13.20	0.135	0.018	0.245	0.007	0.220	0.202	26.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.400		0.003	13.76	360E01		000E00	190F03
10.0	0.430				700E00			
20.0	0.450							
30.0	0.590							
50.0	0.560				300E00			
75.0	0.440							
99.0	0.830				200E00		000E00	120E02

DEPTH	SPC 35
1.0	120E02
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	450E01

C-REF-NO 007  
 CONS. NO 008  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 25  
 TIME 2358

NO. DEPTHS 08  
 SOUNDING 1283  
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	15.16	3.4	311	7.7	8.405		
10.0		10.99	3.5	321		8.350		
20.0		4.07	1.7	324		8.206		
30.0		4.07	0.8	307		8.140		
50.0		3.99	0.8	322	2.9	8.152		
75.0		4.13	0.8	328		8.138		
100.0		3.97	1.0	327		8.147		
126.0		3.84	0.7	327	1.6	8.142		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.20	0.045	0.024	0.005	0.001	0.360	0.336	26.6
10.0	11.40	0.053	0.087	0.085	0.002			26.6
20.0	12.80	0.070	0.026	0.225	0.008			26.4
30.0	12.90	0.070	0.030	0.225	0.008			26.3
50.0	13.30	0.090	0.047	0.225	0.007	0.240	0.193	26.4
75.0	13.00	0.085	0.022	0.225	0.006			26.4
100.0	12.90							
126.0	13.00	0.090	0.015	0.225	0.004	0.220	0.205	26.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.280		0.003	8.36	130E01		000E00	130E03
10.0	0.270				100E00			
20.0	0.440							
30.0	0.450							
50.0	0.540							
75.0	0.610							
100.0								
126.0	0.570							

DEPTH	SPC 35
1.0	110E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
126.0	

C-REF-NO 007
CONS. NO 009
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0101

NO. DEPTHS 08  
SOUNDING 1189  
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	19.11	1.8	314	7.5	8.535		
10.0		4.74	1.7	328		8.228		
20.0		4.08	1.7	327		8.167		
30.0		4.10	1.4	324		8.178		
50.0		4.02	1.1	328	3.0	8.179		
74.0		3.94						
99.0		3.85	1.1	329		8.201		
116.0		3.76	1.1	329	7.4	8.135		

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.035	0.018	0.002	0.001	0.350	0.332	26.6
10.0	11.00	0.040	0.020	0.165	0.004			26.6
20.0	11.50	0.065	0.020	0.225	0.009			
30.0	11.70	0.063	0.026	0.225	0.009			
50.0	11.80	0.070	0.033	0.225	0.008	0.460	0.427	
74.0								
99.0	11.80	0.093	0.024	0.230	0.009			
116.0	11.80	0.142	0.024	0.250	0.007	0.210	0.186	

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.210		0.003	5.83	300E00		000E00	140E02
10.0	0.370				300E00			
20.0	0.500							
30.0	0.420							
50.0	0.450				300E00			
74.0								
99.0	0.440							
116.0	1.100				600E00		000E00	900E01

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
50.0	
74.0	
99.0	
116.0	350E01



C-RFF-NO 007  
CONS. NO 010  
COUNTRY IP  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0155

NO. DEPTHS 07  
SCUNDING 0945  
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.57	1.7	311	5.3	8.633		
10.0		13.16	1.7	318		8.408		
19.0		5.06	1.4	323		8.162		
29.0		4.09	0.8	323		8.208		
48.0		4.02	0.9	326	4.9	8.222		
72.0		3.96	0.8	323		8.222		
90.0		4.01	6.6	325	11.9	8.083		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.050	0.018	0.002	0.001	0.340	0.322	28.7
10.0	9.80	0.042	0.022	0.015	0.001			27.7
19.0	11.40	0.030	0.021	0.155	0.001			27.5
29.0	11.90	0.070	0.020	0.225	0.015			27.4
48.0	17.00	0.076	0.019	0.230	0.015	0.360	0.341	27.5
72.0	13.00	0.095	0.019	0.235	0.016			27.4
90.0	11.30	0.380	0.038	0.282	0.011	0.350	0.312	28.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.350		0.001	6.30				
10.0	0.080				800E00			
19.0	0.190							
29.0	0.440							
48.0	0.500				000E00			
72.0	0.480							
90.0								

DEPTH	SPC 35
1.0	
10.0	
19.0	
29.0	
48.0	
72.0	
90.0	

C-RFF-NO 007
CONS. NO 011
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0315

NO. DEPTHS 03  
SOUNDING C165  
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.84	2.1	308	1.7	8.545		
10.0		20.84	2.2	310		8.555		
15.0		20.83	2.3	308	4.5	8.562		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.060	0.018	0.002	0.002	0.440	0.422	26.6
10.0	8.90	0.060	0.020	0.002	0.002			26.2
15.0	9.00	0.060	0.024	0.003	0.002	0.380	0.356	26.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.140		0.003	3.72				
10.0	0.130							
15.0	0.220							

DEPTH	SPC 35
1.0	
10.0	
15.0	

C-RFF-NO 007
CONS. NO 012
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0452

NO. DEPTHS 03  
SOUNDING 0189  
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.46	1.7	315		8.193		
10.0		21.45	2.3	322		8.386		
16.0		21.42	1.8	319	4.1	8.465		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.075		0.007	0.002	0.380		28.3
10.0	8.80	0.075	0.031	0.007	0.002			27.1
16.0	8.90	0.080	0.094	0.009	0.002	0.360	0.266	27.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF CUL	MF FCO	MF STR	SPC 20
1.0	0.120		0.001	4.70		480E01	000E00	150E03
10.0	0.110							
16.0	0.120				150E03	600E01	000E00	650E03

DEPTH	SPC 35
1.0	
10.0	
16.0	

C-REF-NO 007
CONS. NO 013
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0553

NO. DEPTHS 04  
SOUNDING 0341  
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.20	1.7	313	2.5	8.540		
10.0		21.19	1.8	314		8.535		
19.0		21.20	1.8	315		8.520		
30.0		5.27	1.3	329	3.3	8.177		

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.060	0.029	0.002	0.001	0.500	0.471	28.5
10.0	9.00	0.060	0.021	0.002	0.001			26.9
19.0	8.80	0.061	0.027	0.002	0.001			27.4
30.0	12.10	0.107	0.110	0.022	0.010	0.400	0.290	26.7

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.070		0.002	4.77	100E02	250E02	000E00	160E02
10.0	0.060				140E02			
19.0	0.110							
30.0	0.440				300E01	160E01	000E00	230E02

DEPTH	SPC 35
1.0	120E03
10.0	
19.0	
30.0	640E02

C-REF-NO 007
CONS. NO 014
COUNTRY 18
INSTITUTE 22

LAT	43-25-00N	YEAR	1967
LON	078-50-00W	MONTH	07
		DAY	26
		TIME	0645

NO. DEPTHS	08
SOUNDING	1146
BT SLIDE NO	014

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.49	0.8	321	5.0	8.594		
10.0		21.49	1.0	323		8.635		
20.0		11.57	1.8	329		8.182		
29.0		5.17	0.6	327		8.150		
49.0		4.15	0.6	330	2.8	8.198		
73.0		3.98	0.5	334		8.175		
98.0		3.82	0.8	334		8.151		
110.0		3.88	1.2	337	3.3	8.008		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.070	0.027	0.001	0.001	0.440	0.413	29.0
10.0	8.80	0.075	0.035	0.002	0.001			27.5
20.0	9.80	0.045	0.090	0.062	0.002			28.8
29.0	10.90	0.060	0.058	0.192	0.010			26.1
49.0	11.60	0.070	0.025	0.225	0.017	0.360	0.335	26.1
73.0	12.00	0.075	0.062	0.235	0.014			26.1
98.0	12.20	0.105	0.041	0.240	0.004			26.0
110.0	12.10	0.280	0.040	0.275	0.005	0.320	0.280	26.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200		0.002	6.55	100E00		100E00	200E01
10.0	0.210				400E00			
20.0	0.170							
29.0	0.380							
49.0	0.400				100E00			
73.0	0.360							
98.0	0.570							
110.0					110E01		000E00	620E01

DEPTH	SPC 35
1.0	800E01
10.0	
20.0	
29.0	
49.0	
73.0	
98.0	
110.0	700E01

C-REF-NO 007
CONS. NO 015
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 0748

NO. DEPTHS 06  
SOUNDING 1359  
BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.53	1.6	313	4.2	8.550		
10.0		19.68	1.9	323		8.604		
20.0		6.82	1.3	322		8.282		
30.0		4.60	1.3	327		8.240		
50.0		3.97	0.6	321	3.3	8.230		
75.0		3.89	0.6	321	1.6	8.210		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.050	0.018	0.002		0.360	0.342	26.1
10.0	9.10	0.040	0.016	0.001				26.0
20.0	12.40	0.050	0.053	0.170	0.005			26.0
30.0	13.30	0.075	0.054	0.223	0.007			25.9
50.0	13.40	0.080	0.019	0.227	0.004	0.340	0.321	25.9
75.0	14.40	0.085	0.018	0.230	0.004			26.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.290			8.38	000E00		000E00	580E01
10.0	0.230							
20.0	0.330							
30.0	0.370							
50.0	0.500				000E00			
75.0	0.430							

DEPTH	SPC 35
1.0	100E02
10.0	
20.0	
30.0	
50.0	
75.0	

C-REF-NO 007  
 CONS. NO 016  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 0942

NO. DEPTHS 08  
 SOUNDING 1312  
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.82	1.2	313	3.6	8.525		
10.0		8.38	1.2	326		8.152		
20.0		4.46	3.8	340		8.170		
30.0		4.01	1.8	323		8.165		
50.0		4.01	1.5	323	3.4	8.180		
75.0		3.91	1.5	322		8.200		
100.0		3.82	2.8	329		8.195		
130.0		3.75	0.6	330	6.5	8.140		

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.040	0.040			0.370	0.330	26.0
10.0	11.20	0.040	0.040	0.103	0.002			
20.0	11.60	0.045	0.045	0.220	0.007			26.1
30.0	11.80	0.100	0.066	0.225	0.007			26.7
50.0	12.60	0.090	0.030	0.225	0.007	0.300	0.270	26.6
75.0	12.00	0.077	0.030	0.220	0.005			27.4
100.0	12.00		0.037	0.225	0.004			26.7
130.0	12.20		0.031	0.250	0.005	0.290	0.259	26.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.140		0.002	5.60	100E00		000E00	190E02
10.0	0.110				000E00			
20.0	0.280							
30.0	0.370							
50.0	0.360				000E00			
75.0	0.340							
100.0	0.350							
130.0	0.900				100E00		000E00	200E01

DEPTH	SPC 35
1.0	120E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
130.0	330E01

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

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 1034

NO. DEPTHS 08  
 SOUNDING 1146  
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	12.91	1.6	316	2.9	8.350		
10.0		7.08	1.3	318		8.320		
20.0		4.03	0.8	318		8.240		
30.0		4.04	0.8	320		8.216		
50.0		4.01	0.8	323		8.210		
75.0		3.89	0.6	319		8.225		
100.0		3.76	0.7	323		8.214		
113.0		3.78	0.8	320	1.9	8.204		

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.20	0.040	0.022	0.043	0.001	0.370	0.348	26.7
10.0	12.00	0.040	0.023	0.105	0.001			26.6
20.0	12.00	0.065	0.021	0.220	0.005			26.6
30.0	12.00	0.070	0.023	0.220	0.005			26.8
50.0	12.30	0.080	0.044	0.228	0.005	0.300	0.256	26.8
75.0	12.60	0.100	0.105	0.230	0.004			26.8
100.0	13.00	0.110	0.028	0.230	0.009			26.6
113.0	12.60	0.130	0.027	0.237	0.005	0.290	0.263	26.5

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.050		0.002	4.18	300E00		000E00	480E01
10.0	0.110							
20.0	0.350							
30.0	0.390							
50.0	0.390				300E00			
75.0	0.350							
100.0	0.530							
113.0	0.920				900E00		000E00	400E01

DEPTH	SPC 35
1.0	540E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
113.0	240F01



C-REF-NO 007  
 CONS. NO 018  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 1128

NO. DEPTHS 06  
 SOUNDING 0774  
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	11.91	1.9	314	1.8	8.620		
10.0		6.96	1.7	315		8.472		
20.0		4.09	0.7	315		8.260		
30.0		4.08	0.8	319		8.207		
50.0		3.90	0.6	320	3.2	8.210		
75.0		3.92	0.3	330	4.9	8.150		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.10	0.040	0.017	0.023	0.001	0.300	0.283	26.2
10.0	12.80	0.050	0.015	0.095	0.007			26.6
20.0	13.60	0.045	0.024	0.210	0.008			26.4
30.0	13.50	0.043	0.031	0.210	0.009			26.3
50.0	13.30	0.084	0.020	0.220	0.011			26.5
75.0	13.10	0.122	0.027	0.245		0.320	0.293	26.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100		0.001	7.68	150E01		000E00	380F01
10.0	0.070				100E00			
20.0	0.270							
30.0	0.270							
50.0	0.400				000E00			
75.0	0.630				500E00		000E00	250E01

DEPTH	SPC 35
1.0	300E01
10.0	
20.0	
30.0	
50.0	
75.0	180F01

C-REF-NO 007
CUNS. NO 019

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 1219

NO. DEPTHS 03  
SOUNDING 0189  
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	11.29	1.6	317	5.0	8.586		
10.0		9.65	1.5	322		8.490		
17.0		4.86	0.9	325	4.2	8.100		

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	12.10	0.042	0.040	0.035	0.002	0.290	0.250	27.2
10.0	12.70	0.053	0.028	0.068	0.002			27.5
17.0	13.80	0.025	0.055	0.205	0.011	0.350	0.295	27.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.560			9.08				
10.0	0.770							
17.0	0.520							

DEPTH	SPC 35
1.0	
10.0	
17.0	

C-REF-NO 007
CONS. NO 020
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 1401

NO. DEPTHS 04  
SOUNDING 0311  
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	1.5	9.89	4.0	316	8.7	8.452		
10.0		6.06	2.7	333		8.457		
20.0		4.73	0.9	328		8.235		
28.0		4.73	1.1	334	3.5	8.165		

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	13.00	0.083	0.022	0.060	0.003	0.380	0.358	27.6
10.0	14.00	0.058	0.017	0.050	0.003			27.7
20.0	14.40	0.030	0.050	0.063	0.007			27.8
28.0	14.30	0.035	0.055	0.055	0.007	0.350	0.295	27.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.420		0.003	12.11	390E01	800E00	000E00	220E02
10.0	0.390				500E00			
20.0	0.360							
28.0	0.450				200E00	000E00	000E00	860E01

DEPTH	SPC 35
1.0	300E01
10.0	
20.0	
28.0	400E01

C-REF-NO 007
CONS. NO 021

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 1505

NO. DEPTHS 03  
SCUNDING 0189  
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	1.5	8.99	3.2	319	2.2	8.140		
10.0		6.09	2.2	329		8.162		
16.0		5.33	1.5	330	26.1	8.127		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0		0.062	0.026		0.002			27.7
10.0		0.055	0.030		0.003			28.6
16.0		0.040	0.031		0.004			28.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.330			16.93				
10.0	0.260							
16.0	0.420							

DEPTH	SPC 35
1.0	
10.0	
16.0	

C-REF-NO 007
CONS. NO 022
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 1608

NO. DEPTHS 06  
SCUNDING 0747  
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	14.83	3.0	316	3.1	8.605		
10.0			3.2	321		8.578		
20.0			1.4	328		8.305		
30.0			1.2	325		8.268		
50.0			0.7	329	3.2	8.218		
73.0			1.8	325	5.7	8.178		

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.40	0.035	0.016	0.005	0.002	0.360	0.344	
10.0	11.40	0.050	0.016	0.035	0.002			
20.0	12.40	0.026	0.026	0.212	0.013			24.0
30.0	12.40	0.023	0.027	0.208	0.012			24.1
50.0	12.30	0.030	0.042	0.215	0.014	0.300	0.258	24.2
73.0	12.20	0.087	0.060	0.240	0.015	0.360	0.300	24.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.390		0.002	3.70	400E00		000E00	210E01
10.0	0.360				000E00			
20.0	0.310							
30.0	0.200							
50.0	0.240				000E00			
73.0	0.680				000E00		000E00	190E01

DEPTH	SPC 35
1.0	340E01
10.0	
20.0	
30.0	
50.0	
73.0	150F01

C-REF-NO 007  
 CONS. NO 023  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 1701

NO. DEPTHS 08  
 SOUNDING 1060  
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	16.45	1.8	313	3.9	8.610		
10.0		13.25	2.3	319		8.615		
20.0		4.00	0.6	331		8.321		
30.0		4.02	0.7	328		8.250		
50.0		3.94	0.5	329	1.9	8.238		
75.0		3.86	0.7	322		8.235		
100.0		3.74	1.3	329		8.180		
103.0		3.76	0.7		4.3	8.106		

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.10	0.026	0.016		0.001	0.390	0.374	
10.0	10.70	0.028	0.020	0.005	0.002			
20.0	11.80	0.040	0.027	0.215	0.012			22.6
30.0	11.40	0.040	0.045	0.216	0.012			22.7
50.0	11.60	0.040	0.047	0.218	0.012	0.320	0.273	22.6
75.0	11.70	0.060	0.095	0.218	0.011			22.6
100.0	11.70	0.086	0.024	0.235	0.010			23.2
103.0	12.60	0.093	0.028	0.245	0.010	0.370	0.342	23.0

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.490		0.001	8.19	200E00		000E00	310E01
10.0	0.300				100E00			
20.0	0.290							
30.0	0.240							
50.0	0.410				200E00			
75.0	0.340							
100.0	0.700							
103.0	0.880				000E00		000E00	400E01

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
103.0	350E01

C-REF-NO 007  
 CONS. NO 024  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 1836

NO. DEPTHS 18  
 SOUNDING 1445  
 BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	16.65	2.2	315	5.4	8.598		1.1
4.0		16.56	1.7	313	5.6	8.612		
7.0		16.23	2.2	314	4.7	8.606		
10.0		8.01	2.0	323	5.0	8.498		
13.0		4.75	1.3	327	4.6	8.301		
16.0		4.05	1.1	332	6.2	8.215		
19.0		4.01	0.7	325	3.2	8.184		
22.0		4.02	0.9	326	3.2	8.174		
25.0		4.00	0.7	327	3.0	8.172		
28.0		4.02	0.8	326	3.7	8.166		
31.0		3.97	0.7	330	2.4	8.072		
34.0		3.92	0.8	325	3.7	8.132		
37.0		3.95	0.7	328	3.5	8.168	84.4	
40.0		3.94	0.5	321	4.3	8.165	85.0	
50.0		3.88	0.6	323	2.3	8.170		
75.0		3.88	0.6	324	4.0	8.174	85.0	
100.0		3.79	0.5	323	1.5	8.182	84.2	
142.0		3.71	0.8	321	3.7	8.120		1.4

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.00	0.023	0.023	0.002	0.001	0.340	0.317	
4.0	10.90	0.025	0.021		0.001	0.280	0.259	
7.0	11.10	0.032	0.016		0.001	0.290	0.274	
10.0	12.40	0.028	0.021	0.075	0.002	0.290	0.269	
13.0	12.80	0.025	0.034	0.165	0.002			23.5
16.0	12.60	0.037	0.034	0.210	0.006			23.6
19.0	12.80	0.049	0.106	0.212	0.006	0.300	0.194	23.5
22.0	12.60	0.037	0.020	0.210	0.006	0.290	0.270	23.7
25.0	12.50	0.039	0.027	0.212	0.006	0.310	0.283	23.6
28.0	12.40	0.039	0.041	0.212	0.006	0.290	0.249	23.8
31.0	14.20	0.049	0.040	0.212	0.009	0.240	0.200	23.5
34.0	14.50	0.050	0.067	0.212	0.009	0.270	0.203	23.4
37.0	14.40	0.050	0.022	0.212	0.009	0.280	0.258	23.3
40.0	14.20	0.050	0.078	0.212	0.009			23.5
50.0	14.20	0.054	0.019	0.212	0.008	0.510	0.491	23.6
75.0	14.40	0.063	0.089	0.212	0.007	0.270	0.181	23.8
100.0	14.30	0.062	0.065	0.212	0.005	0.300	0.235	23.8
142.0	14.40	0.095	0.029	0.215	0.006	0.260	0.231	23.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.090			2.76	000E00		000E00	480E01
4.0	0.100							
7.0	0.220							
10.0	0.120				000E00			
13.0	0.120							
16.0	0.300							
19.0	0.290							
22.0	0.290							
25.0	0.300							
28.0	0.290							
31.0	0.270							
34.0	0.250							
37.0	0.320	135.0						
40.0	0.410							
50.0	0.320				000E00			
75.0	0.290	134.8						
100.0	0.390	135.2						
142.0	0.450				000E00		000E00	850F01

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	450E01	197.0	85.1	27.3	38.800	8.200	1.500	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		201.0	90.9	27.5	40.500	8.200	1.400	12.000
75.0								
100.0								
142.0	170E01	202.0	91.4	28.6	40.500	8.100	1.400	12.000



C-REF-NO 007  
 CONS. NO 025  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 2020

NO. DEPTHS 09  
 SOUNDING 1713  
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	19.77	1.6	307	5.5	8.495	78.0	
10.0		12.64	1.9	311		8.395		
20.0		4.98	0.5	320		8.186		
30.0		4.09	0.3	325		8.100		
50.0		3.98	1.2	323	1.5	8.100	84.8	
75.0		3.91	0.2	327		8.115		
100.0		3.82	0.4	320		8.116		
149.0		3.75	1.2	322		8.300		
168.0		3.68	1.7	329	48.6	8.137	83.4	

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	10.20	0.030	0.041		0.001	0.450	0.409	
10.0	11.60	0.023	0.030	0.010	0.001			
20.0	13.10	0.015	0.031	0.215	0.006			25.6
30.0	13.40	0.055	0.020	0.240	0.005			26.1
50.0	13.40	0.058	0.039	0.240	0.005	0.290	0.251	26.3
75.0	13.80	0.056	0.062	0.240	0.004			26.6
100.0	13.50	0.075	0.043	0.240	0.003			26.5
149.0	13.20	0.061	0.032	0.235	0.002			26.2
168.0	13.20		0.031	0.250	0.011	0.310	0.279	27.7

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.070	127.4	0.004	0.00	120E01		000E00	720E01
10.0	0.100				000E00			
20.0	0.300							
30.0	0.410							
50.0	0.450	135.0			100E00			
75.0	0.400							
100.0	0.380							
149.0	0.450							
168.0		136.0			000E00		000E00	440F01

DEPTH	SPC 35
1.0	650F01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
149.0	
168.0	420E01

C-REF-NO 007  
 CONS. NO 026  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 26  
 TIME 2119

NO. DEPTHS 08  
 SCUNDING 1469  
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	21.17	0.3	313	3.0	8.422	77.8	
10.0		20.64	0.5	308		8.475		
20.0		11.60	0.2	321		8.175		
30.0		5.10	0.2	318		8.120		
50.0		4.04	0.2	321	1.6	8.150	84.4	
75.0		3.93	0.1	326		8.160		
100.0		3.93	0.2	321		8.155		
145.0		3.71	0.2	330	1.6	8.100		

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.80	0.030	0.022		0.001	0.450	0.428	26.6
10.0	9.80	0.017	0.028		0.001			27.2
20.0	11.90			0.070	0.006			27.5
30.0	13.70	0.025	0.049	0.200	0.008			25.9
50.0	13.80	0.045	0.025	0.225	0.007	0.290	0.265	25.8
75.0	14.00	0.052	0.035	0.227	0.006			26.0
100.0	13.80	0.055	0.032	0.230	0.007			26.4
145.0	14.40	0.096	0.015	0.240	0.005	0.310	0.295	26.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.050	126.2	0.004	2.30	290E01		000E00	110E02
10.0	0.050				300E00			
20.0	0.110							
30.0	0.300							
50.0	0.360	135.0			000E00			
75.0	0.370							
100.0	0.370							
145.0	1.050				000E00		000E00	140E02

DEPTH	SPC 35
1.0	170E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
145.0	650E01

C-REF-NO 007
CONS. NO. 027
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 2206

NO. DEPTHS 05  
SOUNDING 0384  
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.31	1.6	318	7.2		77.4	
10.0		21.70	1.4	323		8.455		
20.0		21.60						
30.0		6.13	1.5	328		8.223		
35.0		4.80	1.8	326	2.9	8.040	86.6	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.80	0.035	0.017	0.001	0.002	0.310	0.293	27.5
10.0	9.80	0.060	0.038	0.001	0.002			27.6
20.0	9.90	0.030	0.022	0.001	0.002			27.5
30.0	13.90	0.077	0.078	0.205	0.015			26.8
35.0	14.20	0.080	0.060	0.225	0.015	0.320	0.260	26.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.040	125.6	0.001	0.00	500E01		000E00	360E01
10.0	0.110				370E01			
20.0	0.100							
30.0	0.320							
35.0	0.480	137.0			400E00	500E00	000E00	

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
35.0	900E01

C-REF-NO 007
CONS. NO 028
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 26  
TIME 2359

NO. DEPTHS 03  
SOUNDING 0196  
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	22.16	2.0	313	3.4	8.435	77.8	
10.0		22.09	2.2	315		8.550		
18.0		22.09	14.0		14.3	8.545	78.8	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.50	0.045	0.018		0.002	0.310	0.292	27.6
10.0	9.50	0.040	0.025		0.002			27.5
18.0	9.60		0.029		0.004	0.320	0.291	28.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.090	126.0		6.65	300E00		000E00	130E02
10.0	0.320				100E00			
18.0	0.460	127.6			000E00	000E00	000E00	

DEPTH	SPC 35
1.0	110E02
10.0	
18.0	480E02

C-REF-NO 007  
 CONS. NO 029  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 0053

NO. DEPTHS 08  
 SOUNDING 1317  
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.78	1.4	312	1.8	8.542	73.6	
10.0		20.56	1.4	315		8.552		
20.0		8.79	1.1	326		8.295		
30.0		4.65	1.1	331		8.208		
50.0		4.01	1.2	327	2.0	8.190	76.8	
75.0		3.91	0.8	330		8.180		
100.0		3.84	0.7	329		8.164		
130.0		3.76	0.9	332	1.8	8.130	82.8	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.00	0.024	0.017		0.001	0.410	0.393	27.3
10.0	10.10	0.020	0.038		0.001			27.4
20.0	12.70	0.028	0.010	0.110	0.004			27.4
30.0	13.50	0.013	0.049	0.260	0.004			27.3
50.0	14.40	0.030	0.028	0.240	0.008	0.280	0.252	27.2
75.0	14.60	0.030		0.245	0.008			27.2
100.0	14.50	0.040		0.245	0.005			27.2
130.0	14.30	0.040		0.250	0.006	0.260		28.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.030	123.0	0.002	8.53	700E00		000E00	400E01
10.0	0.260				000E00			
20.0	0.170							
30.0	0.360							
50.0	0.500	131.4			000E00			
75.0	0.450							
100.0	0.400							
130.0	0.730	131.8			000E00		000E00	320E01

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
130.0	100E01

C-REF-NO 007  
 CONS. NO 030  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 0155

NO. DEPTHS 09  
 SOUNDING 1725  
 BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.56	1.3	309	2.7	8.628	78.0	
10.0		19.96	1.2	323		8.625		
20.0		6.53	2.2	339		8.270		
30.0		4.05	1.3	336		8.222		
50.0		4.03	1.4	337	1.3	8.198	85.0	
75.0		3.89	1.1	332		8.205		
100.0		3.84	0.7	334		8.200		
150.0		3.77	1.0	336		8.210		
170.0		3.71	1.7	335	1.6	8.194	84.6	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	10.30	0.020	0.018		0.002	0.280	0.262	27.6
10.0	10.40	0.024	0.015		0.001			28.1
20.0	13.30	0.020	0.096	0.190	0.006			27.2
30.0	14.20	0.038	0.013	0.255	0.005			27.2
50.0	14.60	0.036	0.023	0.260	0.006	0.290	0.267	27.5
75.0	14.80	0.039	0.015	0.260	0.003			27.6
100.0	14.80	0.044	0.012	0.253	0.003			28.4
150.0	14.40	0.044	0.011	0.260	0.004			28.5
170.0	14.40	0.020	0.010	0.265	0.007	0.260	0.250	28.0

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.140	126.6	0.004	5.70	000E00		000E00	240E01
10.0	0.170				000E00			
20.0	0.210							
30.0	0.380							
50.0	0.470	136.6			000E00			
75.0	0.400							
100.0	0.400							
150.0	0.610							
170.0	0.780	135.4			100E00		000E00	350E01

DEPTH	SPC 35
1.0	300E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
170.0	200E01

C-REF-NO 007  
 CONS. NO 031  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 0258

NO. DEPTHS 08  
 SOUNDING 1560  
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		18.85	1.6	308	4.6	8.564		
10.0		10.88	1.6	323		8.395		
20.0		4.27	1.3	326		8.130		
30.0		4.08	1.2	324		8.148		
50.0		3.98	0.8	324	3.3	8.155		
75.0		3.89	1.3	324		8.178		
100.0		3.83	1.4	328		8.238		
154.0		3.73	0.7	327	2.6	8.072	86.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.40	0.024	0.014		0.001	0.240	0.226	27.8
10.0	11.70	0.020	0.030	0.090	0.001			28.1
20.0	13.00	0.020	0.024	0.245	0.004			28.1
30.0	14.20	0.024	0.034	0.275	0.006			28.1
50.0	13.60	0.035		0.280	0.005	0.240		28.1
75.0	13.70	0.044	0.035	0.280	0.005			28.5
100.0	13.70	0.045	0.020	0.280	0.009			28.7
154.0	13.50	0.051	0.025	0.290	0.008	0.340	0.315	28.4

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.040			3.39	110E01		000E00	800E00
10.0	0.230				500E00			
20.0	0.340							
30.0	0.370							
50.0	0.380				000E00			
75.0	0.370							
100.0	0.320							
154.0	0.950	138.8			000E00		000E00	200E01

DEPTH	SPC 35
1.0	340F01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
154.0	250F01

C-REF-NO 007
CONS. NO 032
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 0358

NO. DEPTHS 07  
 SOUNDING 1036  
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		18.35	1.7	308	4.3	8.445	80.0	
10.0		6.46	2.2	321		8.350		
20.0		4.34	.7	319		8.220		
30.0		3.99	2.0	322		8.205		
50.0		3.95	0.5	320	2.0	8.174	83.0	
75.0		3.86	0.3	324		8.155		
102.0		3.73	0.7	337	4.5	8.085	85.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.40	0.022	0.050		0.001	0.240	0.190	27.7
10.0	13.20	0.031	0.016	0.165	0.002			28.0
20.0	14.00	0.016	0.033	0.240	0.006			27.9
30.0	14.00	0.020	0.062	0.265	0.013			28.2
50.0	13.90	0.037	0.035	0.275	0.015	0.280	0.245	28.2
75.0	14.40	0.029	0.065	0.290	0.017			28.3
102.0	13.40	0.052	0.020	0.300	0.011	0.190	0.170	28.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.090	128.0	0.001	5.61	000E00		000E00	500E00
10.0	0.210				000E00			
20.0	0.050							
30.0	0.140							
50.0	0.200	135.0			000E00			
75.0	0.240							
102.0	0.910	138.0			000E00		000E00	130E01

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
30.0	
50.0	
75.0	
102.0	230E01



C-REF-NO 007
CUNS. NO 033
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 0455

NC. DEPTHS 06  
SCOUNDING 0585  
BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		15.05	2.3	312	6.0	8.515	82.0	
10.0		7.24	2.0	322		8.460		
20.0		4.52	0.7	322		8.240		
30.0		4.23	1.0	323		8.170		
50.0		4.09	0.7	333	1.2	8.135		
56.0		4.08	0.8	333	6.1	8.086	84.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.40	0.047	0.018	0.005	0.001	0.300	0.282	28.0
10.0	11.90	0.040	0.013	0.065	0.002			28.9
20.0	11.90	0.022	0.045	0.180	0.009			28.2
30.0	12.60	0.020		0.190	0.011			28.4
50.0	12.30	0.060	0.049	0.225	0.013	0.270	0.221	28.4
56.0	12.70	0.060	0.028	0.230	0.013	0.310	0.282	28.3

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.340	131.2	0.003	5.84	000E00		000E00	150E01
10.0	0.060				000E00			
20.0	0.170							
30.0	0.120							
50.0	0.690				000E00			
56.0	0.630	137.2			000E00		000E00	320E01

DEPTH	SPC 35
1.0	110E01
10.0	
20.0	
30.0	
50.0	
56.0	260E01

C-REF-NO 007
CONS. NO 034
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 0551

NO. DEPTHS 03  
SOUNDING 0226  
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		12.87	1.3	327	4.1	8.200	83.0	
10.0		8.72	0.9	335		8.088		
18.0		5.89	1.0	335	3.3	7.985	86.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.60	0.024	0.023	0.065	0.002	0.350	0.327	28.5
10.0	11.50	0.033	0.029	0.110	0.003			28.4
18.0	12.40	0.032	0.044	0.175	0.004	0.260	0.216	28.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.360	134.2		7.82				
10.0	0.290							
18.0	0.430	137.4						

DEPTH	SPC 35
1.0	
10.0	
18.0	

C-REF-NO 007
CONS. NO 035
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 0739

NO. DEPTHS 04  
SOUNDING 0305  
BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		15.52	1.4	318	4.1	8.390		
10.0		8.98	1.7	327		8.259		
20.0		7.50	1.2	334		8.115		
27.0		5.78	0.8	339	2.3	8.061	85.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.40	0.040	0.015	0.017	0.002	0.250	0.235	28.6
10.0	11.70	0.022	0.018	0.090	0.003			29.0
20.0	12.10	0.028	0.041	0.160	0.005			28.5
27.0	12.20	0.030	0.037	0.185	0.007	0.260	0.223	29.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF CUL	MF FCO	MF STR	SPC 20
1.0	0.120			4.62	000E00		000E00	140E01
10.0	0.180				000E00			
20.0	0.380							
27.0	0.430	137.4			000E00	000E00	000E00	100E02

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
27.0	200E01

C-REF-NO 007
CONS. NO 036

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 0835

NO. DEPTHS 04  
SOUNDING 0305  
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		16.07	2.0	322	4.8	8.370	82.0	
10.0		9.22	1.2	326		8.210		
20.0		8.57	1.0	331		8.136		
26.0		7.78	1.0	329	1.0	8.087	86.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.00	0.037	0.029	0.030	0.002	0.270	0.241	26.8
10.0	11.50	0.017	0.041	0.105	0.004			
20.0	11.60	0.020	0.040	0.125	0.004			27.0
26.0	11.70	0.024	0.040	0.150	0.005	0.240	0.200	27.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.220	133.6		6.12	000E00	000E00	000E00	610E01
10.0	0.740				900E00			
20.0	0.270							
26.0	0.430	137.2			800E00		000E00	120E02

DEPTH	SPC 35
1.0	550E01
10.0	
20.0	
26.0	650E01

C-REF-NO 007
CONS. NO 037
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 0931

NO. DEPTHS 05  
SCUNDING 0536  
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.59	2.4	323	1.6	8.480	80.0	
10.0		7.54	1.5	323		8.147		
20.0		5.84	0.8	328		8.067		
30.0		5.15	1.0	335		8.069		
50.0		4.37	2.8	336	6.1	8.080	84.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	ND2 NF	TKJ N	ORG N	CL
1.0	8.70	0.040	0.035	0.035	0.001	0.310	0.275	26.5
10.0	11.10	0.020	0.043	0.145	0.006			27.8
20.0	11.40	0.023	0.040	0.195	0.010			26.8
30.0	11.60	0.025	0.040	0.205	0.010			26.8
50.0	12.30	0.110	0.032	0.230	0.008	0.340	0.308	26.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.300	130.0	0.004	5.81	180E01		000E00	330E01
10.0	0.310				200E00			
20.0	0.360							
30.0	0.350							
50.0	0.600	136.8			100E00		000E00	100E02

DEPTH	SPC 35
1.0	450E01
10.0	
20.0	
30.0	
50.0	430E01

C-REF-NO 007
CONS. NO 038
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 1023

NO. DEPTHS 06  
SOUNDING 0780  
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	19.54	1.7	311	1.5	8.493	78.0	
10.0		19.48	1.7	314		8.524		
20.0		4.96	1.0	290		8.267		
30.0		4.55	0.8	329		8.165		
49.0		4.27	0.7	333	2.1	8.176	84.0	
74.0		3.90	2.2	329	6.2	8.111	84.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.50	0.021	0.007		0.001	0.260	0.253	26.0
10.0	8.60	0.023	0.010		0.001			26.0
20.0	11.40	0.022	0.046	0.175	0.008			26.8
30.0	11.70	0.025	0.048	0.185	0.011			26.6
49.0	12.70	0.028	0.040	0.200	0.019	0.260	0.220	26.6
74.0	12.30	0.110	0.008	0.235	0.006	0.440	0.432	26.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.060	126.2	0.012	3.31	000E00		000E00	190E01
10.0	0.090				000E00			
20.0	0.060							
30.0	0.180							
49.0	0.180	136.8			000E00			
74.0	0.620	138.0			000E00		000E00	500E01

DEPTH	SPC 35
1.0	400E01
10.0	
20.0	
30.0	
49.0	
74.0	180E01

C-RFF-NO 007
CONS. NO 039
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 1121

NO. DEPTHS 08  
SOUNDING 1140  
BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.22	2.0	315	2.2	8.553	78.0	
10.0		20.12	1.8	320		8.572		
20.0		7.67	1.5	327		8.305		
30.0		4.59	1.0	338		8.172		
50.0		4.08	0.7	331	3.3	8.167	84.0	
74.0		3.92	0.5	325		8.149		
99.0		3.76	0.8	334		8.109		
109.0		3.77	0.8	332	1.9	8.098		

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.030	0.018		0.001	0.390	0.372	26.8
10.0	8.90	0.024	0.013		0.001			26.6
20.0	11.50	0.015	0.010	0.105	0.002			27.6
30.0	12.60	0.023	0.048	0.185	0.010			27.2
50.0	12.90	0.041	0.049	0.220	0.020	0.420	0.371	27.3
74.0	12.80	0.047	0.008	0.225	0.018			27.3
99.0	12.70	0.078	0.018	0.240	0.004			27.4
109.0	12.50	0.088	0.007	0.240	0.004	0.400	0.393	27.2

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.050	127.8	0.002	5.25	000E00		000E00	150E01
10.0	0.040				000E00			
20.0	0.140							
30.0	0.090							
50.0	0.220	136.0			000E00			
74.0	0.260							
99.0	0.780							
109.0	0.860				000E00		000E00	420E01

DEPTH	SPC 35
1.0	240E01
10.0	
20.0	
30.0	
50.0	
74.0	
99.0	
109.0	200E01

C-REF-NO 007  
 CONS. NO 040  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 1219

NO. DEPTHS 09  
 SOUNDING 1676  
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	20.09	2.1	311	1.0	8.360	70.0	
10.0		20.06	1.9	313		8.538		
20.0		8.61	1.7	327		8.340		
30.0		5.07	1.2	327		8.260		
50.0		4.27	1.2	328	2.2	8.230	70.0	
75.0		3.94	2.1	332		8.205		
100.0		3.85	1.9	326		8.182		
150.0		3.74	2.6	330		8.175		
165.0		3.67	2.0	332	4.7	8.132	75.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.026		0.005	0.002	0.380		27.9
10.0	8.80	0.028		0.002	0.002			27.9
20.0	10.20	0.019		0.095	0.004			28.0
30.0	11.00	0.033		0.215	0.014			27.9
50.0	11.40	0.039		0.230	0.010	0.360		28.0
75.0	11.60	0.037	0.013	0.237	0.006			28.0
100.0	11.40	0.039	0.014	0.235	0.004			28.0
150.0	11.40	0.047	0.012	0.235	0.003			28.1
165.0	11.40	0.071	0.012	0.250	0.006	0.330	0.318	28.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		136.0	0.023	4.23	300E00		100E00	140F01
10.0					000E00			
20.0								
30.0								
50.0		133.6			000E00			
75.0								
100.0								
150.0								
165.0		133.0			000E00		000E00	470E01

DEPTH	SPC 35
1.0	190E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
165.0	200E01



C-REF-NO 007  
 CONS. NO 041  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 1325

NO. DEPTHS 09  
 SOUNDING 1633  
 BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	21.26	2.0	313	4.9	8.582	76.0	
10.0		21.18	2.2	313		8.574		
20.0		9.87	1.3	329		8.308		
30.0		5.54	1.2	322		8.208		
50.0		4.04	0.7	320	1.9	7.720	74.0	
75.0		4.08	1.0	329		7.945		
100.0		4.01	0.7	329		8.028		
150.0		3.83	0.6	330		8.064		
160.0		3.78	1.5	337	1.7	8.085	75.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0		0.039			0.002	0.280		28.3
10.0		0.033			0.002			29.1
20.0		0.020	0.042	0.095	0.008			28.1
30.0		0.024	0.060	0.195	0.012			28.4
50.0		0.035	0.035	0.225	0.001	0.190	0.155	29.6
75.0		0.039		0.230	0.005			28.5
100.0		0.042		0.230	0.003			28.5
150.0		0.042		0.230	0.003			28.6
160.0		0.045		0.232	0.003	0.310		28.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		126.2	0.002	5.87	200E01		000E00	190E02
10.0					200E00			
20.0								
30.0								
50.0		132.0			000E00			
75.0								
100.0								
150.0								
160.0		133.0			000E00		000E00	180F01

DEPTH	SPC 35
1.0	110F02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
160.0	220E01

C-REF-NO 007
CONS. NO 042
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 1431

NO. DEPTHS 08  
SCUNDING 1140  
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.35	1.3	314	3.1	8.395	71.0	
10.0		20.21	1.1	313		8.594		
20.0		16.42	0.9	316		8.410		
30.0		8.63	0.9	330		8.322		
50.0		4.50	1.2	325	1.4	8.155	90.0	
75.0		7.67	0.9	329		8.148		
100.0		3.83	0.8	331		8.090		
112.0		3.92	0.6	329	1.5	8.094	71.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.00	0.030	0.016	0.002	0.002	0.290	0.274	29.5
10.0	10.00	0.027	0.023	0.002	0.002			28.8
20.0	10.40	0.020	0.016	0.005	0.002			29.5
30.0	11.70	0.025	0.059	0.120	0.011			28.5
50.0	11.50	0.032	0.010	0.225	0.012	0.180	0.170	29.2
75.0	12.70	0.035	0.029	0.195	0.017			28.4
100.0	12.30	0.044	0.044	0.235	0.007			28.3
112.0	13.10	0.043	0.043	0.230	0.007	0.120	0.073	28.2

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		125.4	0.003	2.00	000E00	000E00	000E00	150E02
10.0					000E00			
20.0								
30.0								
50.0		134.4			000E00			
75.0								
100.0								
112.0		132.4			000E00	000E00	000E00	130E02

DEPTH	SPC 35
1.0	180E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
112.0	750E01

C-RFF-NO 007  
 CONS. NO 043  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 1535

NO. DEPTHS 04  
 SCUNDING 0305  
 BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.51	2.0	309	4.9	8.420		
10.0		21.38	2.0	311		8.514		
20.0		21.37	2.2	311		8.538		
30.0		21.15	2.2	314	4.1	8.542	78.0	

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.70	0.037	0.025	0.005		0.290	0.265	28.7
10.0	9.80	0.023	0.026	0.003	0.002			28.5
20.0	9.80	0.033	0.025	0.005	0.002			29.5
30.0	9.80	0.029	0.024	0.007	0.002	0.280	0.256	28.3

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		126.4	0.001	5.14	270E02	850E01	000E00	
10.0					270E02			
20.0								
30.0		126.4			210E02		200E00	

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	480E02

C-REF-NO 007
CONS. NO 044

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 1803

NO. DEPTHS 04  
SCUNDING 0268  
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.35	3.0	306	4.7	8.240	70.0	
10.0		21.00	2.8	308		8.352		
20.0		20.63	2.7	314		8.384		
25.0		20.33	21.0	316	56.2	8.388		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.50	0.048	0.033	0.005	0.002	0.300	0.267	28.3
10.0	9.70	0.028	0.025	0.005	0.002			29.5
20.0	9.60	0.028	0.027	0.005	0.002			28.2
25.0	9.70	0.220	0.026	0.010	0.006	0.270	0.244	30.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		124.0	0.002	7.98	100E02			320F02
10.0					800E00			
20.0								
25.0	0.080	124.0			250E01	100E00	000E00	230F02

DEPTH	SPC 35
1.0	120E02
10.0	
20.0	
25.0	600E01

C-REF-NO C07  
 CONS. NO C45  
 COUNTRY IE  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 1853

NC. DEPTHS 07  
 SOUNDING 0805  
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.48	2.7	306	3.1	8.545		
10.0		20.68	2.7	308		8.560		
20.0		19.26	2.3	317		8.475		
30.0		8.74	2.0	329		8.382		
50.0		4.66	1.6	333	1.9	8.280	86.0	
75.0		3.96	1.6	326		8.218		
79.0		3.91	1.7	330	2.3	8.168	83.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.70	0.025	0.042	0.007	0.002	0.140	0.098	28.7
10.0	10.00	0.025	0.015	0.007	0.002			29.9
20.0	10.20	0.020	0.020	0.007	0.002			29.0
30.0	12.50	0.033	0.085	0.110	0.007			29.0
50.0	13.30	0.035	0.025	0.220	0.014	0.200	0.175	28.9
75.0	13.00	0.055	0.017	0.230	0.006			28.6
79.0	13.10	0.060	0.019	0.235	0.007	0.200	0.181	28.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0			0.003	6.04	320E01	400E00	000E00	520E01
10.0					000E00			
20.0								
30.0								
50.0		130.6			200E00			
75.0								
79.0		132.6			200E00	000E00	000E00	610E01

DEPTH	SPC 35
1.0	540E01
10.0	
20.0	
30.0	
50.0	
75.0	
79.0	480E01

C-REF-NO 007
CONS. NO 046
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 2013

NO. DEPTHS 20  
SOUNDING 2195  
BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.72	2.0	313	1.7	8.493	81.0	1.3
4.0		20.07	2.1	314	2.1	8.616	81.0	
7.0		19.85	2.2	312	2.1	8.627	83.0	
10.0		19.81	2.2	318	2.6	8.607	83.0	
13.0		17.48	2.0	318	1.8	8.560	83.0	
16.0		9.62	1.2	330	1.7	8.410	87.0	
19.0		8.14	0.8	334	1.0	8.345	87.0	
22.0		7.06	0.7	330	1.0	8.306	87.0	
25.0		6.36	1.5	331	1.5	8.267	87.0	
28.0		6.17	1.2	331	1.1	8.261	87.0	
31.0		5.59	0.9	323	1.7	8.135	87.0	
34.0		5.21	0.7	323	1.1	7.936	89.0	
37.0		4.94	0.6	324	1.4	8.060	88.0	
40.0		4.72	0.8	331	1.4	8.100	88.0	
50.0		4.00	0.5	332	1.3	8.100	88.0	
75.0		3.87	0.6	333	0.9	8.113	88.0	
100.0		3.82	0.5	326		8.132	88.0	
150.0		3.78	0.4	332	1.1	8.095		
200.0		3.64	0.3	332	0.6	8.088	88.0	
214.0		3.67	0.7	332	5.7	8.065		1.9

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.030	0.015		0.001	0.310	0.295	28.6
4.0	8.80	0.028	0.020		0.002	0.250	0.230	28.8
7.0	8.90	0.034	0.012		0.001	0.330	0.318	28.8
10.0	8.80	0.028	0.013		0.002	0.290	0.277	28.7
13.0	9.20	0.026	0.020		0.002	0.260	0.240	28.7
16.0	10.10	0.019	0.014	0.050	0.002	0.400	0.386	29.1
19.0	10.00	0.015	0.018	0.090	0.003	0.280	0.262	29.8
22.0	10.00	0.015	0.028	0.120	0.004	0.300	0.272	28.9
25.0	9.80	0.020	0.028	0.145	0.006	0.270	0.242	28.8
28.0	9.80	0.020	0.032	0.160	0.005	0.280	0.248	28.6
31.0	10.80	0.021	0.032	0.170	0.007	0.300	0.268	29.2
34.0	10.80	0.021	0.023	0.155	0.008	0.270	0.247	28.8
37.0	10.70	0.018	0.018		0.009	0.320	0.302	29.6
40.0	10.30	0.025	0.019	0.215	0.009	0.240	0.221	28.6
50.0	10.50	0.046	0.012		0.003	0.450	0.438	28.3
75.0	11.00	0.043	0.011	0.220	0.002	6.260	0.249	28.5
100.0	10.80	0.043	0.010	0.220	0.001	0.250	0.240	28.5
150.0	10.70	0.043	0.012	0.230	0.001	0.230	0.218	28.7
200.0	10.80	0.058	0.017	0.235	0.002	0.330	0.313	29.5
214.0	10.70	0.073	0.013	0.245	0.003	0.300	0.287	29.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		127.4	0.013	3.96	000E00		000E00	700E00
4.0		127.6						
7.0		127.6						
10.0		127.6			000E00			
13.0		127.6						
16.0		128.4						
19.0		134.8						
22.0		134.2						
25.0		135.2						
28.0		134.8						
31.0		134.4						
34.0		135.2						
37.0		135.0						
40.0		135.0						
50.0		135.4			400E00			
75.0		134.6						
100.0		134.6						
150.0								
200.0		135.6						
214.0					000E00			260E01

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	300E01	190.0	87.1	27.8	38.300	8.100	1.400	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		198.0	85.1	27.3	38.600	9.400	1.400	12.400
75.0								
100.0								
150.0								
200.0								
214.0	400E01	202.0	91.9	27.4	40.900	8.300	1.400	12.200

C-REF-NO 007  
 CONS. NO 047  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 27  
 TIME 2237

NO. DEPTHS 09  
 SOUNDING 1768  
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.78	1.3	316	2.4	8.549	83.0	
10.0		19.42	1.5	321		8.585		
20.0		8.60	0.7	322		8.387		
30.0		5.20	0.4	327		8.220		
50.0		3.96	0.8	327	1.3	8.129	88.0	
75.0		3.89	0.4	324		8.136		
100.0		3.81	0.7	329		8.135		
150.0		3.73	0.6	323		8.135		
174.0		3.69	1.2	334	3.3	8.060	88.0	

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.034	0.015		0.001	0.230	0.215	28.8
10.0	9.20		0.013		0.002			29.8
20.0	11.10		0.020	0.065	0.003			29.9
30.0	11.70		0.037	0.200	0.009			29.7
50.0	11.70		0.017	0.230	0.009	0.230	0.213	28.6
75.0	11.50	0.045	0.026	0.235	0.007			28.7
100.0	12.20	0.039	0.012	0.215	0.005			28.9
150.0	11.90	0.042	0.016	0.215	0.002			28.8
174.0	11.90	0.064	0.012	0.240	0.002	0.250	0.238	29.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		129.6	0.003	2.83	620E01		000E00	300E01
10.0					500E00			
20.0								
30.0								
50.0		134.0			100E00			
75.0								
100.0								
150.0								
174.0		135.6			700E00		200E00	240E02

DEPTH	SPC 35
1.0	310E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
174.0	330E01



C-REF-NO 007
CONS. NO 048
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 27  
TIME 2330

NO. DEPTHS 08  
SOUNDING 1158  
BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.20	1.0	320	2.9	8.515	76.0	
10.0		18.44	1.2	316		8.566		
20.0		8.23	0.6	317		8.287		
30.0		4.73	0.5	320		8.092		
50.0		4.13	0.1	329	1.8	8.093	76.0	
75.0		3.93	1.2	328		8.095		
100.0		3.83	1.2	326		8.048		
114.0		3.82	1.6	332	2.2	7.960	86.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.032	0.013	0.013	0.002	0.210	0.197	
10.0	9.30	0.031	0.010	0.010	0.002			
20.0	11.40	0.020	0.019	0.019	0.003			
30.0	12.60	0.023	0.045	0.045	0.020			
50.0	12.60	0.035	0.012	0.012	0.021	0.210	0.198	
75.0	12.70	0.037	0.008	0.008	0.013			
100.0	12.00	0.041	0.009	0.009	0.004			
114.0	11.90	0.120	0.011	0.011	0.003	0.260	0.249	

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		129.2		7.48	150E02		000E00	400E01
10.0					500E00			
20.0								
30.0								
50.0		135.0			800E00			
75.0								
100.0								
114.0		137.0			600E00		000E00	620E01

DEPTH	SPC 35
1.0	500E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
114.0	300E01

C-REF-NO 007
CONS. NO 049

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0025

NO. DEPTHS 06  
SOUNDING 0738  
BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	21.00	1.5	318	2.8	8.614	75.0	
10.0		19.76	1.7	318		8.568		
20.0		9.41	1.5	331		8.292		
30.0		7.65	1.0	331		8.198		
50.0		5.06	0.8	327	2.9	8.158		
72.0		5.79	0.9	327	2.0	8.130	70.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.30	0.029	0.019		0.001	0.220	0.201	
10.0	9.50	0.047	0.016		0.002			
20.0	10.80	0.020	0.030	0.115	0.003			
30.0	11.30	0.024	0.050	0.175	0.006			28.6
50.0	12.10	0.023	0.026	0.200	0.011	0.210	0.284	29.1
72.0	12.00	0.018	0.024	0.205	0.010	0.270	0.246	28.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		127.8	0.003	6.41	600E00		000E00	200E01
10.0					000E00			
20.0								
30.0								
50.0		133.0			000E00			
72.0		132.0			000E00			600E01

DEPTH	SPC 35
1.0	280E01
10.0	
20.0	
30.0	
50.0	
72.0	200E01

C-RFF-NO 007
CONS. NO 050
COUNTRY 18
INSTITUTE 22

LAT	43-52-00N	YEAR	1967
LON	077-00-00W	MONTH	07
		DAY	28
		TIME	0149

NO. DEPTHS	03
SCUNDING	0183
BT SLIDE NO	050

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		18.67	1.5	317	4.1	8.554		
9.0		17.50	1.3	324		8.500		
14.0		16.00	1.4	330	1.4	8.403		

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.10	0.040	0.022	0.068	0.002	0.360	0.338	27.7
9.0	10.50	0.035	0.013	0.073	0.002			27.3
14.0	10.90	0.025	0.014	0.097	0.003	0.280	0.266	27.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		130.0	0.001	5.09	900E00		000E00	120E02
9.0					000E00			
14.0		131.8			000E00	200E00	200E00	170E02

DEPTH	SPC 35
1.0	600E01
9.0	
14.0	670F01

C-REF-NO 007
CONS. NO 051

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0348

NO. DEPTHS 05  
SOUNDING 0390  
BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.10	1.3	314	4.2	8.705		
10.0		21.36	1.3	322		8.651		
20.0		15.48	1.3	328		8.361		
30.0		11.75	0.8	338		8.180		
37.0		6.96	1.0	340	4.3	8.038		

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.50	0.032	0.013		0.002	0.360	0.347	26.2
10.0	9.60	0.026	0.023	0.002	0.002			27.3
20.0	10.70	0.020	0.027	0.007	0.002			26.0
30.0	11.30	0.026	0.049	0.090	0.006			27.7
37.0	11.70	0.060	0.040	0.180	0.009	0.280	0.240	25.7

DEPTH	R SIO2	HARD.	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		128.8	0.001	6.82	000E00	100E01	000E00	110E02
10.0					000E00			
20.0								
30.0								
37.0		139.0			000E00	000E00	000E00	230E02

DEPTH	SPC 35
1.0	250E01
10.0	
20.0	
30.0	
37.0	140E02

C-REF-NO 007
CONS. NO 052
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0448

NO. DEPTHS 06  
SOUNDING 0619  
BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.36	1.2	323	5.0	8.635		
10.0		21.13	1.4	318		8.570		
20.0		17.10	0.6	319		8.420		
30.0		10.41	0.6	326		8.320		
50.0		4.92	1.0	336	4.3	8.085		
60.0		4.91	1.7	336	5.0	7.974		

DEPTH	D 02 P	R PU4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.030	0.016	0.012	0.002	0.260	6.244	25.1
10.0	8.70	0.028	0.012	0.095	0.002			25.2
20.0	9.30	0.027	0.054	0.025	0.002			24.2
30.0	10.80	0.022	0.051	0.070	0.003			26.8
50.0	12.00	0.089	0.007	0.240	0.010	0.310	0.303	24.5
60.0	11.50	0.090	0.016	0.245		0.320	0.304	25.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		128.2	0.002	5.44	000E00		000E00	330E01
10.0					500E00			
20.0								
30.0								
50.0		138.8			000E00			
60.0		138.8			300E00		000E00	540E01

DEPTH	SPC 35
1.0	600E01
10.0	
20.0	
30.0	
50.0	
60.0	140E01

C-REF-NO 007
CONS. NO 053
COUNTRY 18
INSTITUTF 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0538

NO. DEPTHS 07  
SOUNDING 0938  
BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.15	1.2	321	2.3	8.615		
10.0		20.52	1.6	324		8.631		
20.0		14.72	0.9	326		8.410		
30.0		6.05	1.2	328		8.265		
50.0		4.03	0.7	329	1.5	8.265		
75.0		3.90	0.3	327		8.181		
92.0		3.82	1.8	330	3.0	8.195		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.023	0.022		0.001	0.290	0.268	26.0
10.0	9.00	0.022	0.020		0.002			26.2
20.0	9.60	0.020	0.064	0.060	0.001			25.1
30.0	11.40	0.015	0.023	0.195	0.002			23.4
50.0	12.10	0.040	0.017	0.240	0.007	0.260	0.243	24.7
75.0	12.40							
92.0	12.40	0.063	0.008	0.245	0.012			24.4

DEPTH	R SIO2	HARD	PHEN.	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100	129.6		2.84	000E00		000E00	370F01
10.0	0.530				000E00			
20.0	0.240							
30.0	0.420							
50.0	0.590	135.0			500E00			
75.0								
92.0		136.2			200E01		000E00	190E01

DEPTH	SPC 35
1.0	430E01
10.0	
20.0	
30.0	
50.0	
75.0	
92.0	190E01

C-REF-NO 007
CONS. NO 154
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0635

NO. DEPTHS 09  
SOUNDING 1561  
BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CUN	NF RES	PH 25	TC ALK	BOD P
1.0		21.16	1.0	312	4.7	8.442		
10.0		20.88	1.0	314		8.573		
20.0		11.45	0.5	325		8.410		
30.0		4.91	0.3	331		8.250		
50.0		4.06	0.3	328	4.8	8.150		
75.0		3.95	0.3	328		8.150		
100.0		3.86	0.7	329		8.150		
150.0		3.85	0.4	332		8.083		
154.0		3.79	0.3	332	3.8	8.060		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.025	0.012		0.002	0.180	0.168	23.4
10.0	8.50	0.024	0.010		0.002			24.0
20.0	9.80	0.035	0.040		0.003			24.8
30.0	10.80	0.015	0.016	0.210	0.018			22.7
50.0	11.30	0.032	0.022	0.225	0.014	0.200	0.178	24.3
75.0	11.40	0.033	0.008	0.230	0.008			22.6
100.0	11.20	0.033		0.225	0.005			23.0
150.0	11.20	0.065	0.010	0.235	0.002			24.3
154.0	11.20	0.074	0.012	0.250	0.003	0.200	6.188	22.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.120	128.4	0.003	6.44	100E00		000E00	710F01
10.0	0.100							
20.0	0.206							
30.0	0.330							
50.0	0.450	134.0			100E00			
75.0	0.360							
100.0	0.490							
150.0								
154.0		136.8			200E00		000E00	100E01

DEPTH	SPC 35
1.0	270E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
154.0	460E01

C-REF-NO 007
CONS. NO 055
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0744

NO. DEPTHS 09  
SOUNDING 1633  
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.61	1.1	320	3.2	8.550		
10.0		19.99	1.3	315		8.599		
20.0		12.59	0.6	323		8.380		
30.0		8.35	0.4	324		8.308		
50.0		4.56	0.6	324	2.1	8.242	89.5	
75.0		4.00	0.7	323		8.185		
100.0		3.89	0.7	323		8.162		
150.0		3.75	0.3	325		8.177		
161.0		3.69	0.3	326	2.9	8.152	89.3	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.048	0.020		0.001	0.270	0.250	
10.0	9.10	0.036	0.013		0.001			
20.0	10.30	0.020	0.038	0.075	0.003			
30.0	11.10	0.020	0.030	0.155	0.009			
50.0	11.60	0.024	0.028	0.240	0.014	0.290	0.262	
75.0	11.70	0.024	0.009	0.250	0.011			
100.0	12.20	0.033	0.010	0.245	0.009			
150.0	12.60	0.035	0.007	0.250	0.002			
161.0	12.20	0.045	0.009	0.245	0.002	0.370	0.361	

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.260	129.0	0.005	5.20	000E00		000E00	
10.0	0.180				500E00			
20.0	0.226							
30.0	0.290							
50.0	0.300	134.4			000E00			
75.0	0.410							
100.0	0.450							
150.0	0.610							
161.0		135.4			000E00		100E00	930E01

DEPTH	SPC 35
1.0	180E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
161.0	810E01



C-REF-NO 007
CONS. NO 056
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 0851

NO. DEPTHS 05  
SCUNDING 0366  
BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.25	1.3	312	3.7	8.555	83.0	
10.0		20.87	1.6	315		8.512		
20.0		20.63	1.6	312		8.528		
30.0		15.26	0.9	324		8.330		
34.0		8.26	0.7	330	2.5	8.216	89.3	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.046	0.016	0.020	0.002	0.330	0.314	
10.0	8.40	0.025	0.032	0.020	0.002			
20.0	8.40	0.036	0.019	0.020	0.002			
30.0	9.10	0.033	0.039	0.070	0.004			
34.0	10.30	0.034	0.031	0.165	0.011	0.350	0.319	

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100	125.0	0.003	6.48	100E01	000E00	000E00	240E02
10.0	0.150				130E01			
20.0	0.140							
30.0	0.280							
34.0	0.300	135.4			300E00	600E00	000E00	260E02

DEPTH	SPC 35
1.0	130E02
10.0	
20.0	
30.0	
34.0	640E01

C-REF-NO 007
CONS. NO 057

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 1028

NO. DEPTHS 04  
SOUNDING 0329  
BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.00	1.1	328	2.2	8.665		
10.0		21.70	1.5	327		8.680		
20.0		21.27	1.6	327		8.650		
30.0		19.58	1.7	318	1.6	8.545	83.5	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.045	0.015	0.008	0.003	0.220	0.205	32.0
10.0	8.30	0.040	0.040	0.008	0.002			29.6
20.0	8.30	0.038	0.018	0.007	0.002			29.0
30.0	8.50	0.025	0.019	0.020	0.002	0.250	0.231	29.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.650	120.0		7.71	000E00	000E00	000E00	660E01
10.0	0.100				000E00			
20.0	0.370							
30.0	0.190	127.9			500E00			160E02

DEPTH	SPC 35
1.0	520E02
10.0	
20.0	
30.0	400E01

C-REF-NO 007
CONS. NO 058
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 1140

NO. DEPTHS 04  
SOUNDING 0262  
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.90	2.5	311	3.1	8.552		
10.0		20.82	2.1	318		8.545		
20.0		20.18	2.1	315		8.494		
24.0		20.07	2.1	315	3.4	8.488		

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70					0.290		25.3
10.0	8.70							25.3
20.0	8.70			0.015				25.5
24.0	9.80			0.017		0.300		25.5

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.120		0.003	6.95	200E01		000E00	270E01
10.0	0.170				100E00			
20.0	0.150							
24.0	0.170	122.0			100E00	000E00	000E00	110F02

DEPTH	SPC 35
1.0	230E01
10.0	
20.0	
24.0	290E01

C-REF-NO 007  
 CONS. NO 059  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 28  
 TIME 1258

NO. DEPTHS 05  
 SOUNDING 0372  
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	21.65	1.4	321	4.8	8.582	65.0	
10.0		21.62	1.2	321		8.650		
20.0		21.48	1.0	320		8.622		
30.0		20.86	1.3	327		8.488		
35.0		20.82	1.2		4.7	8.422		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.063	0.015	0.005		0.320	0.305	25.7
10.0	9.00	0.054	0.018	0.005				26.0
20.0	9.10	0.045	0.029	0.005				25.7
30.0	9.10	0.055	0.040	0.015				25.0
35.0	9.00	0.060	0.040	0.017		0.350	0.310	24.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.640	128.0	0.003	8.62	100E00	000E00	000E00	270E01
10.0					200E00			
20.0	0.270							
30.0								
35.0	0.400	128.2				000E00	000E00	

DEPTH	SPC 35
1.0	610E01
10.0	
20.0	
30.0	
35.0	290E02

C-REF-NO 007
CONS. NO 060
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 28  
 TIME 1406

NO. DEPTHS 04  
 SOUNDING 0244  
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	21.97	0.8	321	5.1	8.432		
10.0		21.97	1.1	321		8.462		
20.0		21.40	1.0	321		8.484		
22.0		21.39	1.0	321	2.9	8.493	65.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.045	0.050	0.015		0.300	0.250	27.5
10.0	8.10	0.036	0.040	0.015				27.5
20.0	7.80	0.043	0.048	0.014				27.8
22.0	7.90	0.035	0.035	0.014		0.260	0.225	28.0

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.150	126.2	0.002	7.79	000E00	500E00	000E00	210E02
10.0					100E00			
20.0	0.550							
22.0	0.520	127.6			000E00		000E00	800F01

DEPTH	SPC 35
1.0	480E02
10.0	
20.0	
22.0	110E02

C-REF-NO 007  
 CONS. NO 061  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 07  
 DAY 28  
 TIME 1551

NO. DEPTHS 08  
 SOUNDING 0213  
 BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.78	1.6	322	4.5	8.562		
3.0		20.76						
5.0		20.77						
7.0		20.77						
9.0		20.74						
10.0		20.67	2.2	322		8.574		
11.0		20.70						
20.0		12.61	2.3	320	0.9	8.190		

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.035	0.018	0.020	0.002	0.260	0.242	26.7
3.0								
5.0								
7.0								
9.0								
10.0	8.50	0.030	0.019	0.018	0.002			26.9
11.0								
20.0	7.90	0.030	0.036	0.085	0.007	0.290	0.254	26.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.270		0.002	8.73	200E00		000E00	850E01
3.0								
5.0								
7.0								
9.0								
10.0	0.400				000E00			
11.0								
20.0		131.0			300E00	000E00	000E00	160F02

DEPTH	SPC 35
1.0	850E01
3.0	
5.0	
7.0	
9.0	
10.0	
11.0	
20.0	160F01

C-REF-NO 007
CONS. NO 062
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 07  
DAY 28  
TIME 1733

NO. DEPTHS 05  
SCUNDING 0372  
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	20.62	2.6	313	6.0	8.630	85.0	
10.0		20.39	2.7	316		8.640		
20.0		9.71	1.2	320		8.150		
29.0		8.15	1.2	326		8.010		
34.0		7.84	1.1	326	3.6	7.990		

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.40	0.065	0.015		0.003	0.250	0.235	26.1
10.0	9.00	0.062	0.014		0.003			25.8
20.0	8.20	0.025	0.017	0.100	0.006			26.3
29.0	8.00	0.032	0.024	0.140	0.009			26.4
34.0		0.032	0.028	0.145	0.010	0.250	0.222	26.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	127.5	0.004	7.03	200E00	000E00	000E00	230E02
10.0	0.150				100E00			
20.0	0.300							
29.0	0.320							
34.0	0.640	135.0			170E01	300E00	000E00	600E01

DEPTH	SPC 35
1.0	100E02
10.0	
20.0	
29.0	
34.0	560E01

C-REF-NO 007
CONS. NO 063
COUNTRY 18
INSTITUTE 22

LAT 43-22-00N  
 LON 078-47-24W  
 YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 0831

NO. DEPTHS 06  
 SOUNDING 0573  
 BT SLIDE NO. 064

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.69	1.5	316	6.2	8.437	90.0	0.9
10.0		16.84	1.4	317		8.282		
20.0		4.58	0.8	327		8.180		
30.0		4.21	0.7	325		8.165		
49.0		4.11	0.8	322		8.130		
54.0		4.15	0.7	325	3.6	8.100	86.0	2.0

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.083	0.075		0.003	0.370	0.295	
10.0	8.90	0.068	0.105	0.037	0.006			24.0
20.0	10.60	0.027	0.040	0.175	0.016			23.2
30.0	10.50	0.035	0.027	0.200	0.028			26.0
49.0	10.70	0.068	0.024	0.210	0.026	0.300	0.276	26.5
54.0	10.80	0.090	0.044	1.185	0.025			27.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.140	136.0	0.006		300E01		000E00	
10.0	0.420				100E02			
20.0	0.430							
30.0	0.580							
49.0	0.500							
54.0	0.540	128.4						

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
49.0	
54.0	



C-REF-NO 007
CONS. NO 064
COUNTRY 18
INSTITUTE 22

LAT 43-20-30N  
LON 078-51-06W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 0924

NO. DEPTHS 04  
SOUNDING 0354  
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.64	1.2	318	3.1	8.494	90.0	0.9
10.0		21.49	1.2	316		8.515		
20.0		5.04	1.3	318		8.205		
30.0		4.36	0.8	323	1.4	8.150	84.0	3.2

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.042	0.017	0.005	0.002	0.160	0.143	27.0
10.0	8.50	0.042	0.035	0.005	0.003			27.0
20.0	11.50	0.065	0.075	0.155	0.021			26.5
30.0	12.20	0.060	0.033	0.185	0.024	0.100	0.067	26.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.330	136.0	0.001		280E01	450E01	000E00	
10.0	0.540				180E01			
20.0	0.590							
30.0		127.2			180E01	210E01	000E00	

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	

C-REF-NO 007
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 43-19-18N  
LON 078-54-48W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1006

NO. DEPTHS 03  
SCOUNDING 0201  
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.66	0.8	321	2.6	8.435	90.0	0.9
10.0		21.18	1.2	316		8.440		
16.0		5.71	0.9	323	5.1	8.200	86.2	2.2

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.50	0.066		0.005	0.007	0.130		22.0
10.0	8.60	0.040	0.031	0.005	0.002			27.0
16.0	1.20	0.033	0.035	0.135	0.014	0.110	0.075	26.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.110	135.6	0.002		000E00		000E00	
10.0	0.420				350E01			
16.0	0.260	129.6			900E01	300E01	000E00	

DEPTH	SPC 35
1.0	
10.0	
16.0	

C-REF-NO 007
CONS. NO 066

COUNTRY 18  
INSTITUTE 22

LAT 43-17-54N  
LON 078-58-30W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1045

NO. DEPTHS 03  
SOUNDING 0168  
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	21.94	1.0	321	3.1	8.443	87.4	1.1
10.0		9.00	1.0	323		8.100		
12.0		7.78	0.8	335	8.3	8.072	86.6	2.3

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	11.00	0.041	0.027	0.005	0.003	0.170	0.143	26.9
10.0	17.00	0.055	0.043	0.120	0.015			26.5
12.0	11.60	0.050	0.040	0.120	0.015	0.130	0.090	26.8

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.210	155.2	0.005		200E01	240E01	000E00	
10.0	0.230				130E02			
12.0	0.490	130.0			120E02	710E01	000E00	

DEPTH	SPC 35
1.0	
10.0	
12.0	

C-REF-NO 007
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 43-17-24N  
LON 079-01-48W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1121

NO. DEPTHS 02  
SOUNDING 0113  
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	22.14	2.3	320	1.9	8.365	85.0	1.0
7.0		21.01	0.8	322	8.9	8.485	85.0	0.9

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.10	0.053	0.025	0.010	0.003	0.160	0.135	27.3
7.0	8.30	0.060	0.030	0.020	0.005	0.150	0.120	28.0

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.350	129.6	0.004		000E00		000E00	
7.0	0.230	130.6			320E01		000E00	

DEPTH	SPC 35
1.0	
7.0	

C-REF-NO 007
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 43-16-48N  
LON 079-09-18W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1240

NO. DEPTHS 03  
SOUNDING 0177  
BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	20.97	1.8	320	3.8	8.510	88.8	1.6
10.0		5.55	1.3	317		8.170		
14.0		4.80	4.2	324	1.1	8.126	82.0	1.8

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.044	0.017	0.002	0.003	0.160	0.143	26.5
10.0	12.30	0.044	0.042	0.120	0.013			26.6
14.0	12.50	0.100	0.030	0.140	0.023	0.150	0.120	26.5

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.370	135.6	0.003		320E02		000E00	
10.0	0.380							
14.0	0.420	128.4			870E01	100E01	200E00	

DEPTH	SPC 35
1.0	
10.0	
14.0	

C-REF-NO 007
CONS. NO 068

COUNTRY 18  
INSTITUTE 22

LAT 43-18-48N  
LON 079-06-06W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1158

NO. DEPTHS 02  
SOUNDING 0152  
BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.5	22.17	1.0	321	7.3	8.550	89.0	2.4
10.0		9.96	1.5	328	2.4	8.285	84.8	2.4

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.10	0.050	0.019	0.010	0.004	0.120	0.101	27.0
10.0	10.40	0.053	0.043	0.085	0.008	0.110	0.067	26.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.320	135.0			900E01		000E00	
10.0	0.320	128.0			130E02	540E01	200E00	

DEPTH SPC 35

1.0  
10.0

C-REF-NO 007
CONS. NO 070

COUNTRY 18  
INSTITUTE 22

LAT 43-14-24N  
LON 079-16-36W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1337

NO. DEPTHS 04  
SOUNDING 0283  
BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.85	2.7	323	13.8	8.330		1.4
10.0		7.38	1.7	323		8.162		
20.0		4.29	1.3	323		8.108		
26.0		4.27	1.2	333	7.3	8.080	85.0	3.8

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.071	0.010	0.010	0.005	0.120	0.110	26.7
10.0	11.60	0.029	0.023	0.080	0.008			26.5
20.0	12.20	0.082	0.020	0.160	0.025			26.5
26.0	12.20	0.084	0.024	0.165	0.025	0.150	0.126	26.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.130		0.004		210E02	270E02	000E00	
10.0	0.180				120E02			
20.0	0.540							
26.0	0.580	129.2			520E01	470E01	000E00	

DEPTH SPC 35

1.0  
10.0  
20.0  
26.0

C-REF-NO 007  
 CONS. NO 071  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-17-24N  
 LON 079-16-24W

YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 1424

NO. DEPTHS 07  
 SOUNDING 0805  
 BT. SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	19.72	1.0	316	2.0	8.505	89.0	1.7
10.0		9.17	1.2	315		8.211		
20.0		4.95	0.7	328		8.117		
30.0		4.36	0.7	331		8.120		
50.0		4.17	0.5	323	2.1	8.086	90.6	
75.0		4.09	2.7	331		7.960		
78.0		4.05	1.5	333	6.2	7.920	86.4	2.1

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.043	0.018	0.002	0.005	0.120	0.102	26.5
10.0	11.40	0.028	0.014	0.045	0.003			26.6
20.0	12.30	0.010	0.023	0.110	0.005			26.0
30.0	12.90	0.030	0.015	0.135	0.037			26.0
50.0	12.50	0.050	0.010	0.135	0.025	0.140	0.130	26.1
75.0	12.10	0.197	0.025	0.150	0.024			26.2
78.0	11.90	0.165	0.025	0.145	0.023	0.130	0.105	26.6

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.420	135.6	0.002		580E01		000E00	
10.0	0.130				480E01			
20.0	0.180							
30.0	0.410							
50.0	0.510	139.0			100E01			
75.0								
78.0		134.6			320E01	280E01	000E00	

DEPTH SPC 35

1.0  
 10.0  
 20.0  
 30.0  
 50.0  
 75.0  
 78.0



C-REF-NO 007  
 CONS. NO 072  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-18-30N  
 LON 079-12-48W

YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 1522

NO. DEPTHS 05  
 SOUNDING 0817  
 BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	19.59	1.0	316	6.8	8.538		1.8
10.0		8.51	0.8	323		8.225		
20.0		5.31	0.9	331		8.211		
30.0		4.28	0.6	315	2.8	8.212		
80.0								2.1

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.40	0.060	0.032	0.005	0.005	0.180	0.148	28.5
10.0	11.40	0.023	0.013	0.060	0.005			26.0
20.0	12.20	0.017	0.023	0.125	0.009			26.4
30.0	13.40	0.030	0.013	0.162	0.023			26.0
80.0								

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.320		0.001		120E01		000E00	
10.0	0.130				000E00			
20.0	0.100							
30.0	0.350							
80.0								

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
80.0	

C-REF-NO 007
CONS. NO 073
COUNTRY 18
INSTITUTE 22

LAT 43-19-48N  
LON 079-09-06W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1617

NO. DEPTHS 07  
SOUNDING 0829  
BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.15	0.8	323	4.2	8.505		1.7
10.0		11.16	1.3	322		8.242		
20.0		5.06	0.9	327		8.235		
30.0		4.45	1.0	326		8.205		
50.0		4.08	0.4	323	3.3	8.188		
75.0		4.03	1.3	324		8.070		
81.0		4.10	1.3	328	4.5	8.030	65.0	3.5

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.064	0.038		0.004	0.170	0.132	25.0
10.0	11.00	0.023	0.015	0.055	0.003			23.2
20.0	12.20	0.020	0.031	0.170	0.011			22.7
30.0	11.50	0.025	0.022	0.200	0.026			23.3
50.0	11.80	0.026	0.023	0.205	0.022	0.150	0.127	23.0
75.0	12.40	0.100	0.024	0.235	0.012			23.3
81.0	12.00	0.130	0.019	0.235	0.019	0.160	0.141	23.0

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.410		0.001		410E02	550E01	000E00	
10.0	0.350				100E02			
20.0	0.460							
30.0	0.290							
50.0	0.420				100E01			
75.0								
81.0		138.0			260E01	120E01	000E00	

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
81.0	

C-REF-NO 007
CONS. NO 074

COUNTRY 18  
INSTITUTE 22

LAT 43-21-18N  
LON 079-05-30W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1709

NO. DEPTHS 07  
SOUNDING 0945  
BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.3	22.29	1.0	320	4.1	8.562	86.0	1.8
10.0		14.81	1.5	323		8.392		
20.0		5.08	2.1	327		8.082		
30.0		4.16	1.1	329		8.125		
50.0		4.00	0.7	328	5.5	8.156		
75.0		3.86	1.5	333		8.145		
93.0		4.00	89.0	338	608.5	8.061	84.0	4.0

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.078	0.019	0.012	0.005	0.160	0.141	23.5
10.0	10.60	0.025	0.009	0.015	0.002			23.0
20.0	12.50	0.025	0.006	0.115	0.006			23.0
30.0	13.30	0.030	0.005	0.145	0.026			23.0
50.0	13.50	0.045	0.006	0.145	0.025			23.1
75.0	12.80	0.062	0.009	0.150	0.001			23.1
93.0	12.60		0.036	0.150	0.020	0.230	0.194	23.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.300	134.0			430E02	550E01	000E00	360E03
10.0	0.300				460E01			
20.0	0.520							
30.0	0.600							
50.0	0.530	132.4			600E00			
75.0	0.550							
93.0		129.0					000E00	900E01

DEPTH	SPC 35
1.0	280E02
10.0	
20.0	
30.0	
50.0	
75.0	
93.0	900E01

C-REF-NO 007
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 43-19-30N  
LON 079-02-00W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1752

NO. DEPTHS 03  
SOUNDING 0232  
BT SLIDE NO 076

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	22.63	3.1	317	2.9	8.566		1.9
10.0		20.36	3.5	312		8.482		
19.0		4.24	1.4	318	4.8	8.228	70.0	3.8

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0			0.100	0.025	0.003	0.190	0.090	
10.0		0.022	0.017		0.002			
19.0		0.033	0.014		0.029			

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.190	134.0			250E01			
10.0	0.380							
19.0	0.380	128.8			300E01		000E00	200E01

DEPTH	SPC 35
1.0	
10.0	
19.0	100E01

C-REF-NO 007
CONS. NO 076

COUNTRY 18  
INSTITUTE 22

LAT 43-21-00N  
LON 078-58-12W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 1840

NO. DEPTHS 06  
SOUNDING 0756  
BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.5	22.05	0.8	318	3.5	8.495	87.0	2.0
10.0		21.27	1.5	316		8.104		
20.0		4.93	1.4	330		8.048		
30.0		4.29	1.3	335		8.068		
49.0		4.12	1.6	335	3.8	8.070		
73.0		4.16	1.3	335	5.0	8.064	83.4	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.50	0.060	0.020	0.005	0.003	0.200	0.180	24.4
10.0	9.40	0.036	0.021	0.005	0.002			25.7
20.0	12.20	0.020	0.023	0.082	0.007			25.0
30.0	12.40	0.022	0.013	0.100	0.026			24.8
49.0	12.50	0.028	0.004	0.100	0.027	0.160	0.156	25.0
73.0	13.20		0.011	0.100	0.030	0.250	0.239	25.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	134.6			160E02	220E01	200E00	840E02
10.0	0.220				100E02			
20.0	0.200							
30.0	0.300							
49.0	0.350	129.2			840E01			
73.0	0.570	129.8			400E01	700E01	000E00	600E01

DEPTH	SPC 35
1.0	500E01
10.0	
20.0	
30.0	
49.0	
73.0	600E01

C-REF-NO 007  
 CONS. NO 077  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-23-18N  
 LON 078-54-24W

YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 1941

NO. DEPTHS 07  
 SOUNDING 0902  
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.5	22.48	1.0	317	4.7	8.502		
10.0		21.61	2.1	321		8.445		
20.0		5.95	1.6	327		8.202		
30.0		4.12	0.7	328		8.215		
50.0		4.08	0.6	328	2.9	8.168	85.0	
75.0		3.86	1.0	330		8.182		
89.0		3.96	3.4	330	1.0	8.106		3.7

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.052	0.013	0.005	0.003	0.110	0.097	24.5
10.0	8.90	0.040	0.011	0.010	0.003			24.6
20.0	1.20	0.021	0.009	0.095	0.005			24.3
30.0		0.040	0.007	0.145	0.019			24.0
50.0	12.70	0.027	0.012	0.150	0.024	0.110	0.098	24.0
75.0	12.80			0.160				25.0
89.0	12.80			0.160		0.080		25.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.130	132.2			170E01		000E00	800E02
10.0	0.200				190E02			
20.0	0.180							
30.0	0.390							
50.0	0.350	137.0			100E01			
75.0	0.570							
89.0		123.0			400E01			

DEPTH	SPC 35
1.0	600E01
10.0	
20.0	
30.0	
50.0	
75.0	
89.0	129E03

C-REF-NO 007
CONS. NO 078
COUNTRY 18
INSTITUTE 22

LAT 43-23-42N  
LON 078-50-42W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 2024

NO. DEPTHS 07  
SOUNDING 1007  
BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	5.0	22.03	1.3	318	2.9	8.550	82.0	2.0
10.0		20.70	1.7	319		8.425		
20.0		5.82	1.4	327		8.242		
30.0		4.52	1.0	323		8.125		
50.0		3.99	1.1	327	1.9	8.138	84.0	
75.0		3.91	1.3	331		8.123		
99.0		3.92	23.0	336	45.7	8.003		2.6

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.086	0.024		0.005	0.110	0.086	23.0
10.0	8.60	0.040	0.039	0.010	0.004			24.3
20.0	11.00	0.027	0.033	0.135	0.020			23.9
30.0	11.80	0.027	0.023	0.170	0.038			24.0
50.0	12.00	0.050	0.009	0.175	0.018	0.140	0.131	23.9
75.0	12.00	0.057	0.010	0.175	0.003			23.8
99.0	11.10	0.350	0.032	6.215	0.012	0.100	0.068	24.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.380	128.6			170E02	300E01	000E00	930E02
10.0					130E02			
20.0	0.250							
30.0	0.430							
50.0	0.600	133.0						
75.0	0.450							
99.0		139.0			330E01	240E01	000E00	120E02

DEPTH	SPC 35
1.0	240E02
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	800E01

C-REF-NO 007  
 CONS. NO 079  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-25-18N  
 LON 078-54-18W

YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 2112

NO. DEPTHS 08  
 SOUNDING 1170  
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	23.56	0.8	318	2.2	8.230		1.1
10.0		20.15	0.8	324		8.273		
20.0		5.42	1.3	329		8.136		
30.0		4.24	0.3	331		8.080		
50.0		3.97	0.3	329	7.8	8.060	84.0	
75.0		3.95	0.2	332		8.074		
100.0		3.77	0.8	330		8.055		
115.0		3.87	13.0	337	3.5	7.650	70.0	1.6

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.048	0.025	0.010	0.005	0.130	0.105	24.0
10.0	9.20	0.044	0.070	0.025	0.006			24.5
20.0	12.00	0.030	0.047	0.145	0.027			23.8
30.0	12.60	0.043	0.034	0.170	0.027			24.0
50.0	13.60	0.060	0.078	0.180	0.014	0.140	0.062	24.0
75.0	12.70	0.044	0.022	0.170	0.013			25.7
100.0	12.60	0.074	0.065	0.170	0.009			24.2
115.0	12.80	0.155		0.210	0.007	0.080		23.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.260	127.0			000E00		000E00	300E01
10.0	0.250				800E01			
20.0	0.410							
30.0								
50.0	0.430	134.0			100E01			
75.0	0.340							
100.0	0.650							
115.0		139.0			160E01	140E01	000E00	100E02

DEPTH	SPC 35
1.0	340E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
115.0	640E01



C-REF-NO 007  
CONS. NO 080

COUNTRY 18  
INSTITUTE 22

LAT 43-23-54N  
LON 078-58-00W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 2159

NO. DEPTHS 08  
SCOUNDING 1057  
BT SLIDE NO 081

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	22.21	0.9	322	2.2	8.395	86.0	1.4
10.0		19.54	1.5	313		8.530		
20.0		5.56	0.5	328		8.183		
30.0		4.36	1.2	332		8.125		
49.0		4.01	1.0	330	1.4	8.111	86.0	
74.0		3.88	0.3	324		8.095		
99.0		3.78	0.6	327		8.037		
102.0		3.86	1.2	342	2.5	7.880	91.0	1.7

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.064		0.010	0.005	0.150		24.1
10.0	8.90	0.035		0.115	0.001			24.2
20.0	10.60	0.026		0.115	0.013			23.5
30.0	10.80	0.035		0.160	0.036			23.5
49.0	10.70	0.050		0.165	0.021	0.260		23.5
74.0	11.00	0.050		0.160	0.006			23.8
99.0	10.50	0.100		0.180	0.006			24.0
102.0	10.30	0.197	0.030	0.200	0.008	0.210	0.180	24.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.280	129.4			700E02	130E02	000E00	
10.0	0.230				300E02			
20.0	0.320							
30.0	0.360							
49.0	0.460	135.0						
74.0	0.500							
99.0								
102.0		140.0			440E01	240E01		160E02

DEPTH	SPC 35
1.0	160E03
10.0	
20.0	
30.0	
49.0	
74.0	
99.0	
102.0	700E01

C-REF-NO 007  
 CONS. NO 081  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-22-30N  
 LON 079-01-42W

YEAR 1967  
 MONTH 07  
 DAY 29  
 TIME 2244

NO. DEPTHS 05  
 SOUNDING 0987  
 BT SLIDE NO 082

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	23.13	0.8	327	2.8	8.452	88.0	1.6
10.0		20.22	1.3	314		8.470		
20.0		4.94	0.6	320		8.042		
30.0		4.05	1.2	324	1.8	8.095		
97.0								1.4

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.060	0.016	0.005	0.005	0.190	0.174	23.8
10.0	8.50	0.040	0.017	0.002	0.001			24.0
20.0	10.90	0.020	0.030	0.135	0.029			24.0
30.0	11.00	0.044	0.024	0.150	0.015			23.5
97.0								

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.340	131.4			700E02	950E01		120E03
10.0	0.390				210E02			
20.0	0.190							
30.0	0.490							
97.0								

DEPTH	SPC 35
1.0	700E02
10.0	
20.0	
30.0	
97.0	

C-REF-NO 007
CONS. NO 082
COUNTRY 18
INSTITUTE 22

LAT 43-25-30N  
LON 079-01-24W

YEAR 1967  
MONTH 07  
DAY 29  
TIME 2332

NO. DEPTHS 08  
SOUNDING 1128  
BT SLIDE NO 083

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	19.87	2.0	313	2.4	8.564	83.0	1.4
10.0		17.43	1.7	318		8.493		
20.0		5.03	0.6	316		8.260		
30.0		4.06	0.7	327		8.192		
50.0		4.02	0.4	319	2.5	8.160	88.0	
75.0		3.92	0.8	324		8.163		
100.0		3.83	0.5	333		8.176		
111.0		3.79	1.2	329	3.2	8.070	87.0	1.6

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.050	0.014	0.239	0.001	0.420	0.406	
10.0	9.40	0.040	0.024	0.240	0.003			
20.0	10.80	0.034	0.029	0.235	0.022			13.5
30.0	11.10	0.037	0.024	0.233	0.016			14.5
50.0	11.30	0.040	0.018	0.236	0.015	0.250	0.232	14.5
75.0	11.10	0.045	0.020	0.238	0.011			15.0
100.0	11.20	0.042	0.018	0.237	0.010			14.5
111.0	11.00	0.074	0.017	0.235	0.010	0.140	0.123	15.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.420	127.8			000E00			120E01
10.0	0.040				200E00			
20.0	0.440							
30.0	0.330							
50.0	0.500	135.0			100E00			
75.0	0.410							
100.0	0.410							
111.0		135.0			200E00			440E01

DEPTH	SPC 35
1.0	120E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
111.0	140E01

C-REF-NO 007
CONS. NO 083
COUNTRY 18
INSTITUTE 22

LAT 43-24-12N  
LON 079-05-06W

YEAR 1967  
MONTH 07  
DAY 30  
TIME 0046

NO. DEPTHS 08  
SOUNDING 1112  
BT SLIDE NO 084

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.54	1.5	324	4.2	8.532	86.0	1.9
10.0		7.33	1.1	326		8.272		
20.0		4.64	2.0	323		8.210		
30.0		4.04	1.7	323		8.190		
50.0		3.99	1.5	320	3.4	8.145	86.0	
75.0		3.91	1.2	326		8.170		
100.0		3.79	1.3	328		8.158		
109.0		3.77	1.3	340	2.0	8.070	87.0	0.9

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.067	0.016	0.002	0.003	0.220	0.204	23.8
10.0	11.20	0.032	0.020	0.085	0.010			23.5
20.0	11.60	0.045	0.022	0.135	0.030			23.2
30.0	11.50	0.044	0.013	0.135	0.013			23.6
50.0	11.90	0.040	0.018	0.125	0.012			23.2
75.0	11.90	0.010	0.008	0.125	0.009			23.5
100.0	11.70	0.016	0.008	0.125	0.009			23.5
109.0	11.30	0.037	0.010	0.145	0.007	0.200	0.190	23.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100	129.4			240E02	280E01		170E03
10.0	0.160				900E00			
20.0	0.320							
30.0	0.410							
50.0	0.460	133.8			100E00			
75.0	0.380							
100.0	0.550							
109.0		136.6			100E01	000E00		640E02

DEPTH	SPC 35
1.0	800E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
109.0	190E02

C-REF-NO 007  
 CONS. NO 084  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-22-48N  
 LON 079-08-48W

YEAR 1967  
 MONTH 07  
 DAY 30  
 TIME 0143

NO. DEPTHS 07  
 SOUNDING 1068  
 BT SLIDE NO 085

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.08	0.8	325	1.2	8.030	82.0	1.5
10.0		10.82	1.5	318		8.550		
20.0		4.38	1.7	326		8.355		
30.0		4.03	1.3	303		8.200		
50.0		3.99	0.9	326	2.0	8.170	86.0	
75.0		3.94	.7	326		8.168		
105.0		3.75	1.0	333	3.3	8.245	87.0	0.8

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.30	0.042	0.016		0.003	0.130	0.114	24.0
10.0	10.30	0.026	0.014	0.025	0.004			23.8
20.0	11.20	0.010	0.019	0.120	0.002			23.5
30.0	11.30	0.009	0.008	0.125	0.015			24.0
50.0	11.60	0.011	0.008	0.110	0.013	0.070	0.062	23.6
75.0	11.10	0.015	0.022	0.080	0.010			23.8
105.0	11.30	0.018	0.014	0.120	0.007	0.070	0.056	23.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.110	127.2			570E01	650E01		520E02
10.0	0.100							
20.0	0.370							
30.0	0.380							
50.0	0.470	132.4			900E00			
75.0	0.270							
105.0		135.0			900E00	200E00		500E01

DEPTH	SPC 35
1.0	350E02
10.0	
20.0	
30.0	
50.0	
75.0	
105.0	280E01

C-REF-NO 007  
 CONS. NO 085  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-21-30N  
 LON 079-12-30W

YEAR 1967  
 MONTH 07  
 DAY 30  
 TIME 0245

NO. DEPTHS 07  
 SOUNDING 0993  
 BT SLIDE NO 086

DEPTH	SECCHI	TEMP	TURB	SP. CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.34	1.2	317	4.5	8.502	83.0	1.6
10.0		14.19	1.4	323		8.345		
20.0		4.77	0.9	330		8.090		
30.0		4.14	0.9	332		8.105		
50.0		4.01	1.0	329	3.5	8.109		
75.0		3.87	0.8	330		8.130		
97.0		3.81	1.2	335	7.1	8.060		1.4

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.067	0.019	0.005	0.004	0.120	0.101	23.7
10.0	10.00	0.050	0.012	0.005	0.002			23.7
20.0	10.70	0.020	0.015	0.075	0.021			22.9
30.0	11.00	0.030	0.008	0.060	0.026			23.3
50.0	11.10	0.042	0.009	0.090	0.022	0.080	0.071	23.2
75.0	11.20	0.050	0.006	0.060	0.002			23.5
97.0	11.20	0.078	0.008	0.100	0.004	0.120	0.112	23.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.450	126.2			210E02	180E01		120E03
10.0	0.200				120E01			
20.0	0.230							
30.0	0.320							
50.0	0.430				200E00			
75.0	0.440							
97.0					600E00			680E01

DEPTH	SPC 35
1.0	520E02
10.0	
20.0	
30.0	
50.0	
75.0	
97.0	100E02

C-REF-NO 007
CONS. NO 086
COUNTRY 18
INSTITUTE 22

LAT 43-20-36N  
LON 079-16-00W

YEAR 1967  
MONTH 07  
DAY 30  
TIME 0338

NO. DEPTHS 04  
SOUNDING 0960  
BT SLIDE NO 087

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.69	1.7	316	1.7		81.0	1.7
10.0		11.96	1.5	325				
20.0		4.15	1.1	332				
30.0		4.17	1.0	332	2.0			

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.40	0.045			0.002	0.160		23.3
10.0	10.40	0.028		0.015	0.003			23.0
20.0	11.60	0.030	0.009	0.100	0.028			23.1
30.0	11.40	0.026	0.010	0.080	0.027			23.5

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.170	127.4			000E00			340E01
10.0	0.50				100E00			
20.0	0.350							
30.0	0.320							

DEPTH	SPC 35
1.0	260E01
10.0	
20.0	
30.0	





C-REF-NO 009
CONS. NO 001
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 05  
TIME 2109

NO. DEPTHS 06  
SOUNDING 0579  
BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	18.42	1.0	320	2.0	8.810	82.0	
10.0		6.54	1.0	332		8.500		
20.0		4.74	0.7	336		8.420		
30.0		4.47	0.9	333		8.290		
50.0		4.50	0.8	331	1.5	8.280	86.0	
56.0		4.51	100.0	331	69.3	8.260	70.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.90	0.018	0.017		0.002	0.340	0.323	29.1
10.0	11.50	0.027	0.045	0.130	0.012			28.8
20.0	12.00	0.030	0.023	0.150	0.016			28.5
30.0	11.80	0.044	0.022	0.154	0.017			28.3
50.0	11.70	0.048	0.018	0.154	0.018			28.4
56.0	11.60	0.240	0.026	0.154	0.019	0.510	0.484	30.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.630	127.0	0.003		800E00	000E00	000E00	
10.0	0.350				100E00			
20.0	0.640							
30.0	0.690							
50.0	1.100	133.5			100E00			
56.0	0.790	137.5			200E00	000E00	200E00	110E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
56.0	220E01

C-REF-NO 009
CONS. NO 002
COUNTRY 18
INSTITUTE 22

LAT 43-13-00N	YEAR 1967
LON 079-24-00W	MONTH 08
	DAY 05
	TIME 2249

NO. DEPTHS 03
SOUNDING 0183
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	16.06	2.0	321	4.7	8.770	88.0	
10.0		8.09	1.8	318		8.400		
15.0		6.52	1.7	319	2.9	8.360	90.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.70	0.035	0.060	0.096	0.012	0.400	0.340	29.8
10.0	11.10	0.026	0.012	0.125	0.006			28.6
15.0	11.30	0.021	0.015	0.154	0.006	0.250	0.735	28.7

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.360	135.0		6.52				
10.0								
15.0	0.650	135.0						

DEPTH	SPC 35
1.0	
10.0	
15.0	

C-REF-NO 009
CONS. NO 003
COUNTRY 18
INSTITUTF 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0148

NO. DEPTHS 17  
SOUNDING 0811  
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		18.13	0.8	318	5.5	8.990	86.0	1.0
4.0		9.44	1.6	318	6.7	8.970	82.0	
7.0		5.69	1.2	322	6.8	8.780	86.0	
10.0		4.65	1.0	320	5.9	8.590	86.0	
13.0		4.14	0.6	317	5.6	8.520	87.0	
16.0		4.10	0.7	320	2.8	8.460	87.0	
19.0		4.10	0.9	332	7.0	8.430	89.0	
22.0		4.10	0.6	319	3.8	8.420		
25.0		4.09	0.7	317	4.3	8.400	86.0	
28.0		4.03	0.2	347	1.6		89.0	
31.0		3.98	1.5	344	2.0		84.0	
34.0		4.01	1.2	338	3.3		81.0	
37.0		3.99	1.5	334	3.8			
40.0		4.00	1.0	342	3.3		87.0	
50.0		3.97	0.8	337	3.0		88.0	
75.0		3.97	2.1	336	6.0		86.0	
79.0		4.01	13.0	340	35.9			1.0

DEPTH	O 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.20	0.020	0.033		0.004	0.245	0.212	28.4
4.0	11.80	0.033	0.014		0.001			
7.0	12.20	0.021	0.010		0.004	0.325	0.315	28.2
10.0	12.10	0.020	0.005		0.015	0.250	0.245	28.4
13.0	11.80	0.011	0.012		0.019	0.200	0.188	28.3
16.0	11.80	0.012	0.016		0.018			28.2
19.0	11.90	0.016	0.003		0.019	0.200	0.197	28.3
22.0	12.00	0.020	0.008		0.018	0.225	0.217	28.3
25.0	12.00	0.028	0.013		0.017	0.175	0.162	28.5
28.0	11.50	0.036	0.002		0.013	0.200	0.198	28.5
31.0	11.80	0.037	0.004		0.017			28.0
34.0	11.60	0.042	0.002		0.014	0.200	0.198	28.4
37.0	11.70	0.045	0.007		0.015	0.225	0.218	28.9
40.0	11.50	0.045	0.004		0.012	0.275	0.271	28.2
50.0	11.50	0.048			0.008	0.200		28.1
75.0	11.40	0.066	0.002		0.009	0.275	0.273	28.7
79.0	11.20				0.013	0.300	0.292	29.3

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.470	133.0	0.001	3.71				
4.0								
7.0	0.080	135.0						
10.0	0.310	134.0				100E00		
13.0	0.330	132.5						
16.0	0.480	133.5						
19.0	0.440	133.5						
22.0	0.690							
25.0	0.600	131.0						
28.0	0.530	133.5						
31.0	0.440	130.0						
34.0	0.470	126.5						
37.0	0.610							
40.0	0.500	135.0						
50.0	0.580	132.0				100E00		
75.0	0.590	133.5						
79.0		134.0						

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		202.0	90.4	29.6	40.800	8.300	1.500	12.600
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		201.0	92.8	27.3	40.600	8.200	1.400	12.000
75.0								
79.0		201.0	90.4	27.6	40.900	8.200	1.300	11.800

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	0.008	0.018	0.003	0.002	0.004
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	0.030	0.054	0.001	0.000
75.0								
79.0	0.000	0.000	0.000	0.010	0.044	0.002	0.002	0.005

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.006	0.180	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	0.002	0.190	0.004
75.0			
79.0	0.003	0.160	0.007

C-REF-NO 009
CONS. NO 004
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0442

NO. DEPTHS 07  
SOUNDING 0914  
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		16.91	1.8	329	6.2		81.0	
10.0		6.15	1.3	332				
19.0		4.13	1.2	335				
29.0		3.99	1.2	324				
49.0		4.02	1.5	330	4.1		86.0	
73.0		4.06	1.5	329				
87.0		4.01	45.7	339				

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.10	0.010	0.005			0.225	0.220	
10.0	11.60	0.023	0.005	0.100	0.003			28.8
19.0	11.70	0.039	0.009	0.154	0.004			28.5
29.0	11.70	0.017	0.012	0.154	0.004			28.5
49.0	11.80	0.017	0.002	0.156	0.005	0.200	0.198	28.0
73.0	12.20	0.042	0.007	0.156	0.004			28.4
87.0	11.30	0.040	0.010	0.152	0.016			35.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.320	122.5	0.001	3.60	100E00		000E00	400E00
10.0	0.160				100E00			
19.0	0.230							
29.0	0.350							
49.0	0.630	133.0			000E00			
73.0	0.440							
87.0	1.100	130.5						

DEPTH	SPC 35
1.0	120E03
10.0	
19.0	
29.0	
49.0	
73.0	
87.0	

C-REF-NO 009
CONS. NO 005

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0551

NO. DEPTHS 04  
SOUNDING 0311  
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		17.62	2.5	324	5.0		80.0	
10.0		6.48	1.8	337				
20.0		6.37	1.6	342				
30.0		5.61	1.5	335	8.4		86.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.80	0.040	0.040		0.006	0.275	0.235	28.0
10.0	12.60	0.043	0.040	0.080	0.004			27.0
20.0	12.40	0.054	0.070	0.128	0.007			28.3
30.0	12.60	0.048		0.140	0.004	0.300		27.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.080	132.5		4.77				
10.0	0.130							
20.0	0.280							
30.0	0.170	135.0						

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	

C-REF-NO 009
CONS. NO 006

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0741

NO. DEPTHS 03  
SCUNDING 0146  
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP. CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.46	2.8	325	5.2			
10.0		11.52	2.1	333				
13.0		10.87	2.7	334	4.4			

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.084	0.058			0.300	0.242	
10.0	10.60	0.044	0.019	0.025	0.002			
13.0	10.80				0.002			

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0				4.53				
10.0	0.170							
13.0	0.150							

DEPTH	SPC 35
1.0	
10.0	
13.0	



C-REF-NO 009
CONS. NO 007

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0841

NO. DEPTHS 07  
SCOUNDING 1024  
BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		18.38	1.7	312	6.0		81.0	
10.0		4.86	1.8	336				
20.0		4.08	0.6	344				
30.0		4.07	0.8	345				
50.0		3.98	0.5	343	6.7		84.0	
75.0		3.87	0.9	335				
100.0		3.84	1.4	345	3.6			

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.70	0.038	0.003		0.001	0.225	0.222	26.0
10.0	12.60	0.028	0.002	0.135	0.002			26.1
20.0	12.90	0.025	0.003	0.155	0.002			25.9
30.0	12.90	0.042	0.018	0.160	0.002			26.0
50.0	13.20	0.040	0.008	0.153	0.002			25.9
75.0	12.80	0.054	0.004	0.158	0.001			25.6
100.0	12.70	0.074	0.038	0.170	0.002	0.175	0.137	25.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100	120.0	0.004	4.18	000E00		000E00	230F02
10.0	0.320				000E00			
20.0	0.350							
30.0	0.350							
50.0	0.350	133.0			000E00			
75.0	0.500							
100.0	0.670							

DEPTH	SPC 35
1.0	150E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	

C-REF-NO 009
CONS. NO 008
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 0941

NO. DEPTHS 08  
SOUNDING 1256  
BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		13.18	1.7	332	6.7		82.0	
10.0		6.28	1.0	342				
20.0		4.13	0.6	347				
30.0		4.09	0.6	331				
50.0		4.04	0.8	337	2.9		80.0	
75.0		3.93	0.5	338				
100.0		3.82	0.7	339				
122.0		3.79	0.8	336	6.3		84.0	

DEPTH	D 02 P	R PU4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.70	0.030	0.007			0.175	0.168	26.6
10.0	12.20	0.028	0.002	0.085				26.5
20.0	12.90	0.030	0.001	0.150	0.002			26.0
30.0	12.60	0.034	0.007	0.150	0.003			26.2
50.0	12.50	0.042	0.006	0.150	0.003			26.2
75.0	12.50	0.046	0.004	0.148	0.002			26.2
100.0	12.50	0.049	0.009	0.148	0.014			26.2
122.0	12.50	0.077	0.001	0.160	0.010	0.200	0.199	26.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.420	132.0	0.002	3.60	500E00		000E00	700E01
10.0	0.070				000E00			
20.0	0.160							
30.0	0.330							
50.0	0.370	133.0			000E00			
75.0	0.350							
100.0	0.370							
122.0	0.340	137.0			100E00		000E00	180E01

DEPTH	SPC 35
1.0	340E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
122.0	

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

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1039

NO. DEPTHS 08  
SOUNDING 1146  
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	17.91	1.7	329	5.0		81.0	
10.0		7.11	1.3	321				
20.0		4.15	0.8	345				
30.0		4.13	0.7	344				
50.0		4.05	0.6	339	0.8		85.0	
75.0		3.97	0.6	334				
100.0		3.84	0.5	349				
112.0		3.79	0.7	343	3.8		81.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.60	0.050	0.049		0.002	0.210	0.161	
10.0	11.90	0.020	0.012	0.058	0.008			
20.0	12.70		0.009	0.158	0.016			
30.0	12.80		0.010	0.158	0.016			
50.0	12.60		0.019	0.155	0.013	0.250	0.231	
75.0	13.00		0.007	0.143	0.009			
100.0	12.60	0.013	0.016	0.143	0.001			
112.0	12.40	0.012	0.007	0.170	0.002	0.275	0.268	

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	130.0	0.002	3.36	120E01		000E00	760E01
10.0	0.280				000E00			
20.0	0.290							
30.0	0.310							
50.0	0.240	132.5			100E00			
75.0	0.400							
100.0	0.280							
112.0	0.650	132.5			600E00		000E00	260E01

DEPTH	SPC 35
1.0	550E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
112.0	300E01

C-REF-NO 009
CONS. NO 010
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1137

NO. DEPTHS 07  
SCUNDING 0932  
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	18.84	1.5	325	8.2		82.0	
10.0		7.08	1.4	329				
20.0		4.14	0.6	326				
30.0		4.11	0.5	325				
50.0		4.03	0.5	330	5.7		81.0	
75.0		4.16	0.5	326				
91.0		4.12	0.7	328	14.8		85.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.020	0.007		0.001	0.275	0.268	
10.0	10.70	0.027	0.009	0.038	0.003			
20.0	10.70	0.010	0.009	0.148	0.020			
30.0	11.00	0.013	0.008	0.155	0.018			
50.0	11.30	0.029	0.010	0.155	0.015	0.275	0.265	
75.0	11.20	0.024	0.010	0.155	0.002			
91.0	11.00	0.051	0.007	0.162	0.003			

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.230	131.5	0.002	3.25	000E00	000E00	000E00	130E01
10.0	0.230				000E00			
20.0	0.320							
30.0	0.230							
50.0	0.320	133.5			000E00			
75.0	0.360							
91.0	0.440	135.0			100E00	000E00	000E00	350E01

DEPTH	SPC 35
1.0	290E01
10.0	
20.0	
30.0	
50.0	
75.0	
91.0	420F01

C-REF-NO 009
CONS. NO 011
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1243

NO. DEPTHS 03  
SOUNDING 0177  
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.36	1.5	325	6.7		82.0	
10.0		7.57	1.4	330	4.8			
16.0		5.03	1.3	325	4.8		85.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	9.10	0.038	0.016		0.004	0.350	0.234	
10.0	12.10	0.022	0.014	0.128	0.007			
16.0	12.70	0.033	0.015	0.160	0.006	0.250	0.235	

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.230	130.5	0.006	3.25	120E03		800E00	310E03
10.0	0.240				710E02			
16.0	0.360	135.0			150E02		000E00	260E02

DEPTH	SPC 35
1.0	320E03
10.0	
16.0	130E03

C-REF-NO 009
CONS. NO 012

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1351

NO. DEPTHS 03  
SOUNDING 0165  
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.00	1.4	320	5.8		81.0	
10.0		16.03	2.2	322	1.9			
15.0		5.94	1.2	322	2.3		78.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	9.00	0.027	0.016		0.004	0.275	0.259	
10.0	9.70	0.020	0.009	0.030	0.006			
15.0	11.20	0.023	0.017	0.133	0.011			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.220	130.5	0.001	4.30	570E02	600E01	000E00	700E01
10.0	0.190				320E02			
15.0	0.190	134.0			280E02	350E02	000E00	600E01

DEPTH	SPC 35
1.0	750E02
10.0	
15.0	390E02

C-REF-NO 009
CONS. NO 013
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1501

NO. DEPTHS 04  
SCUNDING 0311  
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.47	1.6	318	5.5		78.0	
10.0		14.69	2.0	323				
20.0		5.18	1.5	329				
29.0		4.73	1.0	324	3.6		82.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.025	0.010		0.002			
10.0	9.80	0.021	0.012	0.045	0.006			
20.0	11.70	0.028	0.040	0.138	0.006			
29.0	12.20	0.029	0.018	0.140	0.010			

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCD	MF STR	SPC 20
1.0	0.150	129.0	0.002	3.60	400E00	200E00	740E01	100E02
10.0	0.230				100E02			
20.0	0.200							
29.0	0.230	135.0			160E01	000E00	400E01	700E01

DEPTH	SPC 35
1.0	560E02
10.0	
20.0	
29.0	380F02

C-REF-NO 009
CONS. NO 014
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 06  
 TIME 1555

NO. DEPTHS 08  
 SOUNDING 1128  
 BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	20.55	2.4	318	1.3		79.0	
10.0		15.15	2.5	321				
20.0		4.25	1.3	325				
30.0		4.16	0.8	326				
50.0		4.07	0.7	326	1.4		81.0	
75.0		3.98	0.8	324				
100.0		3.82	0.6	325				
111.0		3.87	1.3	328	1.3			

DEPTH	O 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.40	0.030	0.016		0.002	0.200	0.184	
10.0	10.10	0.030	0.013		0.002			
20.0	11.40	0.031	0.011	0.168	0.013			
30.0	11.60	0.023	0.008	0.158	0.002			
50.0	11.70	0.032	0.007	0.158	0.017	0.120	0.113	
75.0	11.90	0.038	0.009	0.160	0.006			
100.0	11.70	0.053	0.012	0.170	0.002			
111.0	11.40	0.082	0.011	0.188	0.003	0.100	0.089	

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	130.0	0.003	3.36	500E00		000E00	880E01
10.0	0.170				180E01			
20.0	0.270							
30.0	0.290							
50.0	0.300	134.5			300E00			
75.0	0.250							
100.0	0.440							
111.0	0.800				900E00		000E00	570E01

DEPTH	SPC 35
1.0	390E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
111.0	370E02



C-REF-NO 009
CONS. NO 015
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1650

NO. DEPTHS 08  
SOUNDING 1347  
BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.53	1.5	305	2.3		76.0	
10.0		13.22	1.7	320				
20.0		5.01	1.0	322				
30.0		4.32	0.8	319				
50.0		4.02	0.7	320	0.6		83.0	
75.0		3.89	0.6	316				
100.0		3.82	0.4	317				
133.0		3.76	1.7	322	1.0		85.0	

DEPTH	O 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.50	0.026	0.008		0.002	0.300	0.292	
10.0	9.80	0.020	0.008	0.030	0.005			
20.0	11.50	0.023	0.048	0.148	0.020			
30.0	11.60	0.035	0.010	0.155	0.014			
50.0	12.00	0.041	0.008	0.165	0.007			
75.0	11.80	0.040	0.007	0.160	0.004			
100.0	12.00	0.042	0.008	0.158	0.002			
133.0	11.70	0.053	0.006	0.165	0.005			

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.270	127.0	0.001	3.13	400E00		000E00	500E01
10.0	0.110				240E01			
20.0	0.200							
30.0	0.210							
50.0	0.230	131.0			100E00			
75.0	0.270							
100.0	0.300							
133.0	0.530	134.0			500E00		200E00	490E01

DEPTH	SPC 35
1.0	380E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
133.0	960E01

C-RFF-NO 009
CCNS. NO 016

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1801

NO. DEPTHS 08  
SOUNDING 1274  
BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	18.83	2.5	319	2.7			
10.0		8.95	1.8	321				
20.0		4.07	0.8	320				
30.0		4.05	0.8	323				
50.0		3.98	0.7	318	2.3			
75.0		3.90	0.8	319				
100.0		3.82	0.5	320				
124.0		3.78	0.6	321	2.2			

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.50	0.020	0.012		0.002			
10.0	11.50	0.034	0.032	0.065	0.005			
20.0	12.40	0.032	0.010	0.150	0.012			
30.0	12.40	0.037	0.009	0.148	0.012			
50.0	12.60	0.034	0.008	0.148	0.010			
75.0	12.40	0.036	0.005	0.145	0.006			
100.0	12.60	0.053	0.006	0.140	0.003			
124.0	12.40	0.029	0.009	0.165	0.006			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.110		0.001	3.48	000E00		200E00	120E02
10.0	0.190				000E00			
20.0	0.300							
30.0	0.210							
50.0	0.250				000E00			
75.0	0.200							
100.0	0.240							
124.0	0.580				000E00		920E01	410E01

DEPTH	SPC 35
1.0	170E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
124.0	670E01

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

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 1851

NO. DEPTHS 08  
SOUNDING 1164  
BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	19.43	1.8	323	4.0		80.0	
10.0		6.12	1.0	336				
20.0		4.08	1.0	344				
30.0		4.06	0.6	326				
50.0		3.97	0.6	343	1.1		83.0	
75.0		3.88	0.5	332				
100.0		3.77	0.5	332				
115.0		3.76	0.5	338	2.2		84.0	

DEPTH	D O2 P	R PU4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.018	0.008		0.002			
10.0	11.70	0.027	0.007	0.090	0.003			
20.0	12.60	0.027	0.006	0.150	0.012			
30.0	12.50	0.033	0.007	0.144	0.011			
50.0	12.70	0.036	0.013	0.148	0.009			
75.0	12.40	0.041	0.006	0.145	0.006			
100.0	12.40	0.049	0.009	0.152	0.004			
115.0	12.40	0.015	0.009	0.160	0.006			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF CUL	MF FCO	MF STR	SPC 20
1.0	0.300	128.5	0.001	2.43	000E00		000E00	290F01
10.0	0.220				000E00			
20.0	0.310							
30.0	0.370							
50.0	0.290	131.0			000E00			
75.0	0.190							
100.0	0.330							
115.0	0.640	133.5			000F00		000F00	260F01

DEPTH	SPC 35
1.0	420E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
115.0	200F01

C-REF-NO 009
CONS. NO 018
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 06  
 TIME 1951

NO. DEPTHS 06  
 SOUNDING 0768  
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP. CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.61	1.9	322	3.4			
10.0		10.04	2.5	323				
20.0		4.12	0.9	343				
30.0		4.12	0.7	343				
50.0		3.93	0.5	339	2.3		83.0	
75.0		3.93	0.8	344	2.4		86.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.022	0.008		0.001			
10.0	11.40	0.024	0.008		0.002			
20.0	17.90	0.012	0.009	0.143	0.017			
30.0	12.90	0.015	0.008	0.140	0.017			
50.0	13.10	0.029	0.008	0.157	0.012			
75.0	12.80	0.058	0.004	0.150	0.021			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200		0.001	2.07	000E00		000E00	200E01
10.0	0.150				000E00			
20.0	0.180							
30.0	0.200							
50.0	0.300	132.5			000E00			
75.0	0.410	135.0			000E00		000E00	360E01

DEPTH	SPC 35
1.0	370E01
10.0	
20.0	
30.0	
50.0	
75.0	470E01

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

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 2044

NO. DEPTHS 03  
SOUNDING 0171  
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	19.50	2.4	324	4.9		80.0	
10.0		12.21	1.9	332				
15.0		11.33	2.1	335	6.7		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.042	0.013		0.002			
10.0	10.40	0.021	0.017	0.023	0.003			
15.0	10.50	0.028	0.040	0.033	0.003			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.190	129.0		3.25				
10.0	0.150							
15.0	0.210	135.0						

DEPTH	SPC 35
1.0	
10.0	
15.0	

C-RFF-NO 009
CONS. NO 020
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 06  
 TIME 2227

NO. DEPTHS 04  
 SOUNDING 0265  
 BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.03	2.2	321	1.0			
10.0		14.16	1.4	331				
20.0		12.55	1.3	335				
24.0		11.06	1.2	335	5.5		84.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.050	0.020		0.002			
10.0	9.80	0.022	0.012	0.008	0.003			
20.0	10.10	0.038	0.026	0.035	0.004			
24.0	10.40	0.022	0.019	0.050	0.005			

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.080		0.001	3.60	280E01	600E00	000E00	260E01
10.0	0.080				600E00			
20.0	0.120							
24.0	0.170	135.0			300E00		000E00	200E02

DEPTH	SPC 35
1.0	540E01
10.0	
20.0	
24.0	110E02

C-REF-NO 009
CONS. NO 021

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 06  
TIME 2329

NO. DEPTHS 03  
SCUNDING 0189  
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	19.16	2.2	325	1.1			
10.0		14.36	1.7	337				
16.0		13.00	1.5	335	2.1			

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.042	0.012		0.004			
10.0	9.70	0.027	0.015	0.020	0.005			
16.0	10.10	0.033	0.035	0.040				

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.130			4.18				
10.0	0.150							
16.0	0.260							

DEPTH	SPC 35
1.0	
10.0	
16.0	

C-REF-NO 009
CUNS. NO 022
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 0025

NO. DEPTHS 06  
SOUNDING 0750  
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	21.63			0.9		77.0	
10.0		9.54						
20.0		5.02						
30.0		4.25						
50.0		3.97			0.8		80.0	
73.0		3.93			1.8		84.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.046	0.012		0.001	0.260	0.248	
10.0	11.20	0.030	0.009		0.001			
20.0	12.30	0.022	0.010	0.110	0.007			
30.0	12.70	0.026	0.014	0.130	0.016			
50.0	12.90	0.041	0.013	0.155	0.011	0.250	0.237	
73.0	12.50	0.046	0.014	0.168	0.008			

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		128.0	0.003	3.25	500E00		000E00	
10.0					000E00			
20.0								
30.0								
50.0		134.0			100E00			
73.0		134.5			200E00		200E00	

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
73.0	



C-REF-NO 009  
 CONS. NO 023  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 0113

NO. DEPTHS 07  
 SOUNDING 1024  
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.77	2.2	316	2.7		78.0	
10.0		6.07	2.5	336				
20.0		4.10	1.4	339				
30.0		4.08	1.3	334				
50.0		3.99	0.6	335	1.7		83.0	
75.0		3.88	0.5	337				
100.0		3.75	0.7	333			83.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.030	0.012		0.001			
10.0	12.20	0.037	0.011	0.033	0.001			
20.0	12.40	0.020	0.005	0.210	0.013			
30.0	12.40	0.016	0.008	0.200	0.013			
50.0	12.70	0.025	0.007	0.210	0.013	0.215	0.208	
75.0	12.60	0.030	0.008	0.210	0.009			
100.0	12.40	0.041	0.004	0.240	0.008	0.230	0.226	

DEPTH	R SID2	HARD	PHEN	CHLOKA	MF COL	MF FCO	MF STR	SPC 20
1.0		128.5	0.003	2.19	100E00		000E00	
10.0					000E00			
20.0								
30.0								
50.0		134.0			000E00			
75.0								
100.0		135.0			000E00		000E00	270E01

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	310E01

C-REF-NO 009
CONS. NO 024
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 0235

NO. DEPTHS 18  
SOUNDING 1365  
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		20.51	2.5	313	2.2		78.0	0.9
4.0		19.91	2.3	313	2.3		76.0	
7.0		12.81	2.1	316	3.2		79.0	
10.0		7.11	1.8	322	2.3		82.0	
13.0		5.38	1.7	321	0.3		81.0	
16.0		4.05	1.5	322			82.0	
19.0		4.00	0.8	322	0.3		82.0	
22.0		4.02	0.6	322			84.0	
25.0		4.00	0.6	322	1.1		83.0	
28.0		4.00	0.6	322	1.2		83.0	
31.0		4.05	0.6	322	1.4		83.0	
34.0		4.00	0.8	323	0.3		84.0	
37.0		4.05	0.7	323	1.3		83.0	
40.0		4.05	0.7	322			83.0	
50.0		4.01	0.8	320	0.2		83.0	
75.0		3.89	0.7				84.0	
100.0		3.81	0.4	311			83.0	
135.0		3.73	0.3	318			83.0	1.1

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.035	0.017		0.001	0.275	0.258	26.2
4.0	9.00	0.033	0.017		0.001	0.235	0.218	26.2
7.0	10.30	0.034	0.015		0.002	0.230	0.215	26.1
10.0	10.90	0.036	0.012	0.077	0.003	0.215	0.203	26.1
13.0	11.00	0.018	0.007	0.180	0.006	0.250	0.243	26.2
16.0	11.70	0.027	0.012	0.235	0.013	0.245	0.233	26.1
19.0	11.50	0.028	0.007	0.235	0.013	0.220	0.213	26.0
22.0	11.30	0.028	0.009	0.235	0.012	0.230	0.221	26.2
25.0	11.50	0.029	0.010	0.230	0.013	0.235	0.225	26.4
28.0	11.30	0.025	0.011	0.225	0.013			26.4
31.0	12.90	0.025	0.009	0.240	0.009	0.240	0.231	26.2
34.0	12.70	0.027	0.010	0.220	0.013	0.225	0.215	26.1
37.0	12.30	0.028	0.011	0.220	0.014	0.230	0.219	26.1
40.0	11.90	0.024	0.008	0.215	0.014	0.225	0.217	26.1
50.0	11.90	0.031	0.007	0.215	0.014	0.225	0.218	26.3
75.0	12.10	0.035	0.010	0.228	0.014	0.225	0.215	26.4
100.0	12.40	0.035	0.010	0.225	0.006	0.220	0.210	26.1
135.0	11.90	0.037	0.008	0.205	0.005	0.205	0.197	26.5

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.290	129.0	0.003	2.19	000E00		000E00	140E01
4.0	0.230	129.0						
7.0	0.270	131.0						
10.0	0.380	135.0			000E00			
13.0	0.520	134.0						
16.0	0.560	135.5						
19.0	0.540	135.0						
22.0	0.480	134.5						
25.0	0.550	134.5						
28.0	0.080	134.5						
31.0	0.530	135.0						
34.0	0.490	135.0						
37.0	0.470	134.5						
40.0	0.580	134.5						
50.0	0.460	134.0			000E00			
75.0	0.570	134.0						
100.0	0.580	133.5						
135.0	0.700	134.5			000E00		420E02	470E01

DEPTH	SPC 35	F RES	TT ALK	S S04	CA NFA	MG NF	K NFS	NA NFS
1.0	190E01	193.0	86.1	27.6	38.000	8.100	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		204.0	90.4	27.6	39.700	8.600	1.300	11.800
75.0								
100.0								
135.0	550E01	188.0	94.8	27.6	40.500	8.200	1.300	11.800

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	0.000	0.037	0.004	0.002	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	0.000	0.000	0.000	0.010	0.002	0.001	0.002
75.0								
100.0								
135.0	0.000	0.000	0.000	0.002	0.011	0.003	0.003	0.003

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.003	0.180	0.024
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	0.002	0.175	0.003
75.0			
100.0			
135.0	0.002	0.168	0.002

C-RFF-NO 009  
 CONS. NO 025  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 0423

NO. DEPTHS 09  
 SCUNDING 1658  
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.10	1.6	319	1.4		75.0	
10.0		5.19	0.9	328				
20.0		7.76	0.9	322				
30.0		4.18	0.5	322				
50.0		4.13	0.5	324	0.2		84.0	
75.0		3.95	0.6	321				
100.0		3.88	0.4	320				
150.0		3.73	0.3	316				
166.0		3.68	0.5	328	2.9		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.026	0.010			0.270	0.260	26.5
10.0	11.20	0.010	0.008	0.195	0.015			26.1
20.0	11.40	0.017	0.010	0.170	0.011			26.2
30.0	11.60	0.029	0.005	0.220	0.010			26.1
50.0	11.60	0.032	0.006	0.210	0.009	0.200	0.194	26.1
75.0	11.90	0.033	0.020	0.225	0.006			26.2
100.0	11.50	0.035	0.006	0.220	0.004			26.2
150.0	11.30	0.035	0.006	0.202	0.002			26.2
166.0	11.10	0.050	0.006	0.237	0.007	0.230	0.224	26.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.600	125.5	0.009	3.13	220E01		200E00	150F02
10.0	0.730				000E00			
20.0	0.360							
30.0	0.860							
50.0	0.720	134.0			000E00			
75.0	0.440							
100.0	0.570							
150.0	0.780							
166.0	1.600	135.5			100E00		100E00	800E01

DEPTH	SPC 35
1.0	140E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
166.0	570E01

C-REF-NO 009  
 CONS. NO 026  
 COUNTRY IR  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 0542

NO. DEPTHS 08  
 SOUNDING 1426  
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.80	1.4	316	1.7		76.0	
10.0		22.20	1.5	317				
20.0		6.62	1.0	326				
30.0		4.80	1.0	322				
50.0		4.02	0.7	320	2.1			
75.0		3.96	0.6	321				
100.0		3.79	0.5	322				
139.0		3.83	0.8	323	1.8		83.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	7.70	0.025	0.010		0.001			26.3
10.0	8.20	0.020	0.009		0.001			26.5
20.0	11.00	0.020	0.018	0.170	0.037			26.0
30.0	11.50	0.023	0.020	0.210	0.021			25.9
50.0	12.00	0.030	0.007	0.225	0.011			25.9
75.0	12.10	0.032	0.009	0.232	0.001			25.9
100.0	11.80	0.040	0.029	0.233	0.001			26.0
139.0	11.50	0.072	0.016	0.270	0.004	0.160	0.144	25.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	128.0	0.001	2.66	200E00		000E00	350E01
10.0	0.420				000E00			
20.0	0.430							
30.0	0.330							
50.0	0.620				200E00			
75.0	0.420							
100.0	0.650							
139.0	1.500	137.0			100E00		100E00	120E02

DEPTH	SPC 35
1.0	120E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
139.0	270E02

C-REF-NO 009
CONS. NO 027
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 0634

NO. DEPTHS 05  
SOUNDING 0372  
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.77	1.2	315	2.8		75.0	
10.0		8.73	1.2	325				
20.0		4.53	0.9	321				
30.0		4.25	0.7	322				
35.0		4.29	0.7	320	1.5		81.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.023	0.016		0.001	0.500	0.484	26.8
10.0	11.20	0.022	0.016	0.130	0.016			26.5
20.0	12.70	0.019	0.010	0.205	0.017			26.0
30.0	12.70	0.024	0.006	0.225	0.020			26.2
35.0	12.70	0.028	0.007	0.235	0.023	0.610	0.603	26.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCD	MF STR	SPC 20
1.0	0.370	127.0	0.004	3.01	000E00	000E00	000E00	280E01
10.0	0.640				200E00			
20.0	0.430							
30.0	0.520							
35.0	0.500	135.0			000E00			

DEPTH	SPC 35
1.0	720E01
10.0	
20.0	
30.0	
35.0	

C-RFF-NO 009
CONS. NO 028
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 0838

NO. DEPTHS 03  
SCOUNDING 0207  
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.20	1.2	315	2.3		75.0	
10.0		12.10	2.3	332				
18.0		6.09	1.0	335	2.7		82.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.063			0.001			27.3
10.0	10.40	0.046		0.115	0.024			26.7
18.0	11.40	0.066		0.122	0.008	0.625		26.9

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.650	127.0	0.003	3.48	000E00	000E00	200E00	130F02
10.0	0.360				400E00			
18.0	0.380	135.0			110E01	300E00	000E00	420E02

DEPTH	SPC 35
1.0	180E02
10.0	
18.0	140E03



C-REF-NO 009
CONS. NO 029
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 0934

NO. DEPTHS 08  
 SOUNDING 1311  
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.95	1.4	318	1.1		76.0	
10.0		21.18	1.4	319				
20.0		7.70	0.9	323				
30.0		4.81	0.8	317				
50.0		4.10	0.5	323	2.1		80.0	
75.0		3.94	0.4	318				
100.0		3.86	0.3	318				
129.0		3.76	0.5	318	1.5		81.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.030			0.001	0.425		27.2
10.0	9.10	0.031			0.001			27.3
20.0	11.20	0.033		0.130	0.022			26.8
30.0	12.00	0.032		0.200	0.038			26.7
50.0	12.50	0.037	0.017	0.270	0.015	0.260	0.243	26.5
75.0	12.10	0.031	0.016	0.210	0.002			26.0
100.0	12.60	0.034	0.010	0.220	0.001			26.6
129.0	12.90	0.069	0.019	0.230	0.001	0.235	0.216	26.7

DEPTH	R S102	HARD	PHEN	CHLOPA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.170	129.0		3.60	600E00			
10.0	0.150				600E00			
20.0	0.150							
30.0	0.370							
50.0	0.420	132.5			000E00			
75.0	0.410							
100.0	0.440							
129.0	0.760	135.5			000E00		000E00	

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
129.0	130E02

C-REF-NO 009  
 CONS. NO 030  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 1044

NO. DEPTHS 09  
 SOUNDING 1713  
 BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	20.94	1.7	317	0.4		76.0	
10.0		17.40	2.0	322				
20.0		5.35	1.5	332				
30.0		4.05	0.8	322				
50.0		3.95	0.5	320	1.1		83.0	
75.0		3.90	0.5	321				
99.0		3.83	0.5	320				
149.0		3.78	0.5	316				
168.0		3.70	0.6	321	0.4		81.0	

DEPTH	D O2 P	R PU4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.043	0.044		0.001			26.1
10.0	9.80	0.044	0.063		0.002			26.1
20.0	12.00	0.024	0.033	0.200	0.021			25.8
30.0	12.30	0.062	0.019	0.232	0.013			26.1
50.0	12.50	0.046	0.010	0.210	0.004			25.9
75.0	12.50	0.048	0.010	0.235	0.002			25.9
99.0	17.10	0.051	0.010	0.215	0.001			25.6
149.0	17.50	0.049	0.012	0.215	0.001			26.3
168.0	17.10	0.068	0.019	0.230	0.002	0.265	0.246	26.4

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.190	126.5	0.001	3.48	420E02		270E01	110F02
10.0	0.100				400E00			
20.0	0.310							
30.0	0.510							
50.0	0.500	134.0			300E00			
75.0	0.440							
99.0	0.520							
149.0	0.440							
168.0	0.630	133.5			000E00		100E00	490E01

DEPTH	SPC 35
1.0	550E02
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	
149.0	
168.0	180E01

C-REF-NO 009  
 CONS. NO 031  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 1146

NO. DEPTHS 09  
 SOUNDING 1554  
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.01	2.5	312	5.0		76.0	
10.0		11.86	3.3	328				
20.0		4.84	2.0	338				
30.0		4.04	0.8	340				
50.0		4.01	1.1	338	4.0		83.0	
75.0		3.91	1.2	340				
100.0		3.82	0.8	339				
150.0		3.74	0.6	337				
153.0		3.70	0.7	339	3.4		83.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.034	0.025		0.001	0.285	0.260	26.1
10.0	10.80	0.035	0.023		0.002			25.7
20.0	12.20	0.018	0.017	0.192	0.007			26.2
30.0	12.50	0.034	0.012	0.200	0.012			26.0
50.0	12.70	0.037	0.012	0.205	0.026	0.200	0.188	26.2
75.0	12.80	0.047	0.011	0.215	0.019			26.0
100.0	12.70	0.049	0.010	0.225	0.012			26.1
150.0	12.40	0.064	0.010	0.225	0.002			26.4
153.0	12.10	0.086	0.010	0.245	0.003	0.215	0.205	26.7

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.070	127.0	0.001	2.66	100E01		000E00	660E01
10.0	0.100				000E00			
20.0	0.130							
30.0	0.450							
50.0	0.310	135.0			000E00			
75.0	0.300							
100.0	0.320							
150.0	0.900							
153.0	1.200	137.5			000E00		100E00	250E01

DEPTH	SPC 35
1.0	820E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
153.0	150E01

C-REF-NO 009  
 CONS. NO 032  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 1247

NO. DEPTHS 07  
 SOUNDING 1060  
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	21.33	2.6	313	3.1			
10.0		7.34	2.4	337				
20.0		4.05	1.4	337				
30.0		4.05	1.8	340				
50.0		3.92	0.8	340	1.9		83.0	
75.0		3.91	0.5	335				
104.0		3.80	0.9	339	1.2		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80					0.275		28.5
10.0	11.50							28.6
20.0	12.10							28.6
30.0	12.00							28.6
50.0	12.10					0.300		28.6
75.0	12.20							28.6
104.0	11.90					0.225		28.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.470		0.001	2.43	000E00		000E00	550E01
10.0	0.500				000E00			
20.0	0.460							
30.0	0.440							
50.0	0.400	134.5			000E00			
75.0	0.350							
104.0	0.440	136.0			000E00		000E00	150E02

DEPTH	SPC 35
1.0	680E01
10.0	
20.0	
30.0	
50.0	
75.0	
104.0	

C-REF-NO 009
CONS. NO 033
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1346

NO. DEPTHS 05  
SCUNDING 0567  
BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.57	1.8	320	6.8		77.0	
10.0		12.90	1.5	331				
20.0		7.75	1.0	345				
30.0		5.61	1.8	338				
50.0		4.46	1.4	343	5.9		84.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.053	0.033		0.002	0.230	0.197	27.2
10.0	10.30	0.025			0.002			26.6
20.0	11.40	0.018	0.024	0.160	0.011			27.0
30.0	12.00	0.020	0.020	0.150	0.002			26.7
50.0	12.30	0.018	0.029	0.187	0.009	0.190	0.161	26.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.440	129.6	0.001	3.60	000E00		000E00	
10.0	0.100				000E00			
20.0	0.330							
30.0	0.310							
50.0	0.390	136.5			000E00			

DEPTH SPC 35

1.0  
10.0  
20.0  
30.0  
50.0

C-REF-NO 009
CONS. NO 034
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1435

NO. DEPTHS 03  
SOUNDING 0207  
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	21.86	1.8	315	3.9		76.0	
10.0		19.36	1.6	323				
19.0		14.16	1.1	335	2.2		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.030	0.025		0.001			27.0
10.0	9.00	0.021	0.020		0.003			27.0
19.0	9.80	0.016	0.030	0.085	0.007	0.250	0.220	27.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.200	128.5		4.07				
10.0	0.150							
19.0	0.310	134.0						

DEPTH	SPC 35
1.0	
10.0	
19.0	

C-REF-NO 009  
 CONS. NO 035  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 1616

NO. DEPTHS 04  
 SCUNDING 0329  
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	21.93	2.0	315	4.4		75.0	
10.0		20.68	1.8	321				
20.0		13.85	1.0	336				
29.0		8.73	1.2	343	1.8		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	8.60		0.015		0.002	0.275	0.260	28.7
10.0	8.80		0.022		0.002			26.7
20.0	9.80			0.092	0.006			26.3
29.0	11.00			0.173	0.005	0.220		26.6

DEPTH	R SIO2	HARD	PHEN	CHLGRA	MF CUL	MF FCO	MF STR	SPC 20
1.0	0.420	128.0	0.033	5.35	000E00	000E00	200E00	
10.0	0.500				000E00			
20.0	0.270							
29.0	0.500	136.5			600E00	300E00	000E00	130F02

DEPTH	SPC 35
1.0	
10.0	
20.0	
29.0	550E01

C-REF-NO 009
CONS. NO 036
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1711

NO. DEPTHS 04  
SOUNDING 0335  
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.84	1.7	321	3.0		75.0	
10.0		21.44	1.5	323				
19.0		16.59	1.3	333				
29.0		11.11	1.0	336	3.8		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60		0.045		0.002	0.310	0.265	26.6
10.0	8.60				0.002			26.6
19.0	9.40			0.040	0.009			26.2
29.0	10.40			0.128	0.006	0.210		26.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.300	128.0	0.003	5.12	500E00	400E00	000E00	900E00
10.0	0.300				000E00			
19.0	0.190							
29.0	0.550	134.5			000E00	000E00	000E00	360E01

DEPTH	SPC 35
1.0	170E01
10.0	
19.0	
29.0	340E01



C-REF-NO 009
CONS. NO 037
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1807

NO. DEPTHS 06  
SOUNDING 0543  
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	22.20	2.0	320	2.8		74.0	
10.0		21.97	1.3	319				
20.0		17.04	1.3	330				
30.0		8.08	0.9	350				
50.0		5.13	1.0	341	1.5		81.0	
54.0		4.88	1.5	343	1.6			

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40				0.002	0.250		27.0
10.0	8.50				0.002			27.0
20.0	9.00				0.007			
30.0	10.20				0.004			
50.0	11.10			0.218	0.003	0.245		26.8
54.0	11.10			0.220	0.003	0.285		26.8

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.290	128.0	0.003	5.59	000E00		000E00	410F01
10.0	0.160				000E00			
20.0	0.170							
30.0	0.470							
50.0	0.350	136.0						
54.0	0.410				000E00		000E00	450E01

DEPTH	SPC 35
1.0	430E01
10.0	
20.0	
30.0	
50.0	
54.0	170E01

C-RFF-NO 009
CONS. NO C3E
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1857

NO. DEPTHS 07  
SCUNDING 0799  
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	22.65	2.2	313	2.1		74.0	
10.0		21.80	1.9	311				
20.0		7.72	1.4	329				
30.0		5.01	1.0	328				
50.0		4.19	0.9	326	2.5		81.0	
75.0		3.88	1.1	326				
78.0		3.86	1.5	326	7.1		81.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.10	0.031	0.028		0.001			23.9
10.0	8.20	0.025	0.024		0.001			23.8
20.0	10.30	0.017		0.137	0.010			23.9
30.0	10.80	0.020	0.035	0.192	0.005			23.5
50.0	11.00	0.028	0.024	0.210	0.030			23.2
75.0	11.40	0.057	0.028	0.225	0.004			23.5
78.0	10.70	0.086	0.020	0.255	0.003			24.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.460	127.0	0.005	3.71	400E00		000E00	460F01
10.0	0.620				000E00			
20.0	0.180							
30.0	0.310							
50.0	0.530	134.5			000E00			
75.0	0.930							
78.0	1.200	136.0			100E00		000E00	130E02

DEPTH	SPC 35
1.0	580F01
10.0	
20.0	
30.0	
50.0	
75.0	
78.0	500E01

C=REF-NO 009
CONS. NO 039
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 1951

NO. DEPTHS 08  
SOUNDING 1262  
BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.8	22.18	2.0	311	5.8		70.0	
10.0		18.00	2.2	315				
20.0		6.10	1.8	331				
30.0		4.34	1.2	322				
50.0			0.9	324	5.6			
75.0		3.90	0.6	324				
100.0		3.86	1.1	330				
124.0		3.74	1.2	331	7.0		88.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.80	0.024	0.019		0.001	0.250	0.231	23.4
10.0	9.30	0.024	0.023		0.002			23.4
20.0	11.30	0.019	0.020	0.155	0.008			23.4
30.0	11.50	0.022	0.020	0.205	0.026			23.3
50.0	11.90	0.036	0.014	0.220	0.010	0.350	0.336	23.3
75.0	11.80	0.039	0.040	0.230	0.006			23.5
100.0	11.60	0.042	0.013	0.218	0.002			23.8
124.0	11.80	0.072	0.014	0.255	0.003	0.400	0.386	23.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF CUL	MF FCO	MF STR	SPC 20
1.0	0.580	125.0	0.002	1.84	000E00		000E00	100E01
10.0	0.330				000E00			
20.0	0.320							
30.0	0.540							
50.0	0.510				000E00			
75.0	0.590							
100.0	0.470							
124.0	1.400	134.5			600E00		000E00	600F01

DEPTH	SPC 35
1.0	270F01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
124.0	300F01

C-REF-NO 009
CONS. NO 040
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 2042

NO. DEPTHS 09  
SOUNDING 1639  
BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.05	1.6	312	6.1		79.0	
10.0		18.72	2.1	317				
20.0		6.83	1.2	331				
30.0		5.01	1.0	327				
50.0		4.15	0.5	325	5.4		85.0	
75.0		3.91	0.5	327				
100.0		3.80	0.5	321				
150.0		3.74	0.5	323				
162.0		3.69	0.6	326	2.0		77.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.20	0.025			0.001	0.225		23.5
10.0	9.70	0.031			0.001			24.6
20.0	11.60	0.026	0.038	0.155	0.003			23.3
30.0	11.70	0.018	0.028	0.210	0.026			24.6
50.0	11.80	0.034	0.028	0.265	0.006	0.200	0.172	25.2
75.0	11.90	0.035	0.029	0.170	0.002			
100.0	12.10	0.045	0.035	0.238	0.002			23.5
150.0	12.00	0.055	0.046	0.225	0.002			24.0
162.0	12.10	0.073	0.026	0.243	0.003	0.380	0.354	23.7

DEPTH	R. SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.430	124.0	0.003	2.07	300E00		000E00	160E01
10.0	0.330				000E00			
20.0	0.340							
30.0	0.560							
50.0	0.660	134.0			200E00			
75.0	0.480							
100.0	0.690							
150.0	0.620							
162.0	1.250	135.0			100E00		000E00	440E01

DEPTH	SPC 35
1.0	520E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
162.0	870E01

C-REF-NO 009  
 CONS. NO 041  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 07  
 TIME 2150

NO. DEPTHS 09  
 SOUNDING 1676  
 BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.68	1.5	310	1.2		70.0	
10.0		21.95	1.0	314				
20.0		10.18	1.5	338				
30.0		5.50	1.2	334				
50.0		4.03	0.8	327	3.1		85.0	
75.0		3.94	0.6	325				
100.0		3.86	0.5	322				
150.0		3.78	0.9	323				
165.0		3.70	0.9	330	0.9		85.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.038	0.022		0.002	0.280	0.258	23.9
10.0	8.00	0.027	0.014		0.001			23.7
20.0	9.80	0.027	0.087	0.110	0.026			23.9
30.0	10.40	0.020	0.033	0.180	0.017			23.4
50.0	10.50	0.041	0.023	0.225	0.008	0.200	0.177	23.3
75.0	10.50	0.046	0.034	0.217	0.003			23.3
100.0	10.40	0.057	0.014	0.235	0.002			23.3
150.0	10.40	0.050	0.013	0.217	0.001			23.3
165.0	10.40	0.065	0.015	0.235	0.002	0.300	0.285	23.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.610	124.0	0.002	4.07	200E00		000E00	600E00
10.0	0.500				600E00			
20.0	0.200							
30.0	0.600							
50.0	0.690	133.5			100E00			
75.0	0.710							
100.0	0.650							
150.0	0.650							
165.0	1.190	134.0			000E00		000E00	110E02

DEPTH	SPC 35
1.0	110E03
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
165.0	260E01

C-REF-NO 009
CONS. NO 042
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 2247

NO. DEPTHS 08  
SOUNDING 1237  
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	22.80	1.2	317	0.9		78.0	
10.0		22.12	1.4	312				
20.0		14.01	1.0	324				
30.0		6.56	1.1	328				
50.0		4.14	1.0	324	2.9		85.0	
75.0		3.95	1.0	327				
100.0		3.89	1.2	328				
122.0		4.09	1.0	332	3.5		86.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	7.50	0.043	0.023		0.002	0.240	0.217	23.8
10.0	7.60	0.037	0.026		0.002			23.6
20.0	8.60	0.032	0.041	0.065	0.016			23.3
30.0	9.60	0.043	0.051	0.190	0.010			23.0
50.0	10.00					0.195		
75.0	10.20	0.057	0.024	0.232	0.002			24.7
100.0	10.20	0.075	0.028	0.265	0.002			24.6
122.0	10.20	0.079	0.028	0.270	0.002	0.195	0.167	24.7

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.580	126.5	0.002	4.77	700E00	000E00	000E00	740E01
10.0	0.720				150E01			
20.0	0.220							
30.0	0.340							
50.0		134.5			400E00			
75.0	0.580							
100.0	0.980							
122.0	1.150	134.5			700E00	200E00	000E00	230E02

DEPTH	SPC 35
1.0	410E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
122.0	130E02

C-REF-NO 009
CONS. NO 043
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 07  
TIME 2336

NO. DEPTHS 04  
SOUNDING 0329  
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	22.31	1.7	310	3.1		60.0	
10.0		22.25	2.0	310				
20.0		9.58	1.6	326				
30.0		4.62	1.5	319	4.4			

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.034	0.044		0.002	0.265	0.221	23.6
10.0	8.60	0.031	0.015		0.001			23.6
20.0	10.10	0.036	0.059	0.108	0.016			23.3
30.0	11.20	0.082	0.034	0.250	0.002	0.200	0.166	23.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.460	126.0	0.003	3.36	000E00		000E00	
10.0	0.830				180E01			
20.0	0.480							
30.0	0.700				100E02		300E00	900E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	430E02

C-REF-NO 009  
 CONS. NO 044  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 0222

NO. DEPTHS 04  
 SOUNDING 0293  
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	MF RES	PH 25	TC ALK	BOD P
1.0		22.56	1.0	310	2.3		70.0	
10.0		22.03	1.4	310				
20.0		8.96	1.5	330				
27.0		6.89	1.5	329	2.6		87.0	

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.071			0.002	0.215		24.7
10.0	8.80	0.040			0.001			23.4
20.0	10.40	0.061		0.205	0.006			23.3
27.0	11.30	0.069		0.220	0.004	0.200		23.4

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.310	125.5	0.002	3.71	000E00	000E00	000E00	130E03
10.0	0.210				120E01			
20.0	0.560							
27.0	0.650	136.5			740E01	400E00	000E00	180E03

DEPTH	SPC 35
1.0	120E03
10.0	
20.0	
27.0	170E03



C-REF-NO 009  
 CONS. NO 045  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 0313

NO. DEPTHS 05  
 SOUNDING 0738  
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.52	1.6	317	3.3		65.0	
10.0		21.96	1.3	313				
20.0		10.47	1.0	341				
30.0		6.03	1.3	343				
50.0		4.08	0.9	338	2.4		85.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.041	0.018			0.270	0.252	23.8
10.0	8.30	0.032	0.016		0.001			23.6
20.0	10.30	0.042	0.029	0.105	0.016			23.6
30.0	11.50	0.067	0.017	0.210	0.004			23.5
50.0	11.90	0.039	0.011	0.185	0.002	0.215	0.204	23.5

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0		125.5	0.003	4.42	120E01	000E00	100E00	700E00
10.0	0.300				200E00			
20.0	0.600							
30.0	0.560							
50.0	0.540	132.5			000E00			

DEPTH	SPC 35
1.0	320F01
10.0	
20.0	
30.0	
50.0	

C-REF-NO 009  
 CONS. NO 046  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 0541

NO. DEPTHS 20  
 SOUNDING 2121  
 BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.43	1.3	314	2.6		77.0	0.9
4.0		22.45	1.2	311	2.8		76.0	
7.0		22.06	1.4	312	2.0		76.0	
10.0		21.63	1.5	314	1.9			
13.0		16.38	1.8	323	3.1		81.0	
16.0		11.46	1.3	331	2.6			
19.0		9.62	1.4	333	1.4			
22.0		8.08	0.8	340	1.5		86.0	
25.0		7.25	1.0	338	2.4		86.0	
28.0			1.1	334	2.8		87.0	
31.0		5.14	0.6	342	0.9		86.0	
34.0		4.87	1.0	339	2.4		86.0	
37.0		4.63	1.1	340	1.0		85.0	
40.0		4.47	0.8	343	1.0		84.0	
50.0		4.00	0.6	337	2.0		86.0	
75.0		3.95	0.7	342	1.9		86.0	
100.0		3.86	0.5	340	3.6		85.0	
150.0		3.81	0.3	339	1.4		84.0	
200.0		3.68	0.5	342	2.4			
210.0		3.65	62.0	339	173.5		73.0	1.7

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	8.30		0.029		0.026			24.0
4.0	8.30	0.071	0.029		0.048	0.300	0.271	24.2
7.0	8.40	0.077	0.018		0.012	0.265	0.247	23.8
10.0	8.40	0.043	0.012		0.012	0.280	0.268	23.6
13.0	8.90	0.043	0.013		0.012	0.250	0.237	23.6
16.0	9.50	0.035	0.013		0.016	0.215	0.202	24.0
19.0	9.70	0.028	0.020	0.045	0.002	0.210	0.190	24.0
22.0	9.70	0.024	0.030	0.095	0.006	0.250	0.220	24.0
25.0	11.50	0.031	0.022	0.130	0.009	0.300	0.278	23.8
28.0	11.50	0.028	0.025	0.135	0.015	0.265	0.240	23.6
31.0	11.00	0.035	0.014	0.190	0.021	0.210	0.196	23.5
34.0	11.10	0.039	0.022	0.195	0.019	0.210	0.188	23.5
37.0	11.20	0.052	0.010	0.205	0.016	0.210	0.200	23.5
40.0	11.10	0.049	0.013	0.220	0.012	0.250	0.237	23.7
50.0	11.20	0.058	0.024	0.210	0.002	0.225	0.201	23.5
75.0	11.50	0.057	0.020	0.210	0.002	0.220	0.200	23.3
100.0	11.30	0.056	0.013	0.212	0.002	0.260	0.247	23.5
150.0	11.40	0.053	0.011	0.208	0.002	0.260	0.249	23.4
200.0	11.50	0.066	0.012	0.215	0.002	0.300	0.288	23.4
210.0	11.10			0.205	0.013	0.375		23.1

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.220	125.0	0.095	2.43	200E00		000E00	320E01
4.0	0.170	125.0						
7.0	0.100	124.5						
10.0	0.290				100E01			
13.0	0.200	128.5						
16.0	0.100							
19.0								
22.0	0.210	133.5						
25.0	0.250	132.5						
28.0	0.310	133.5						
31.0	0.370	133.0						
34.0	0.400	134.5						
37.0	0.470	133.0						
40.0	0.440	132.0						
50.0	0.450	133.5			400E00			
75.0	0.430	134.0						
100.0	0.490	131.0						
150.0	0.500	131.0						
200.0	0.800							
210.0	1.410	131.5			200E00		000E00	640E01

DEPTH	SPC 35	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		194.0	81.8	27.6	37.000	7.800	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		202.0	93.8	28.0	40.400	8.400	1.400	12.200
75.0								
100.0								
150.0								
200.0								
210.0		196.0	90.9	27.5	40.500	8.200	1.300	11.800

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	0.002	0.011	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	0.018	0.059	0.017	0.001	0.006
75.0								
100.0								
150.0								
200.0								
210.0	0.000	0.000	0.000	0.000	0.015	0.003	0.001	0.000

DEPTH	NI NF	SR NFA	ZN NF
1.0	0.003	0.160	0.011
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	0.002	0.168	0.012
75.0			
100.0			
150.0			
200.0			
210.0	0.001	0.185	0.004

C-REF-NO 009  
 CONS. NO 047  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 0755

NO. DEPTHS 09  
 SOUNDING 1755  
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.01	1.4	319	2.4		77.0	
10.0		19.85	1.6	324				
20.0		6.38	1.1	347				
30.0		4.90	0.7	336				
50.0		3.93	0.5	335	2.9		82.0	
75.0		3.88	1.0	334				
100.0		3.81	0.5	333				
150.0		3.72	0.5	335			85.0	
175.0		3.72	0.6	336	1.3		84.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	.100	0.031		0.002			24.7
10.0	8.70	0.043	0.017		0.001			25.4
20.0	10.70	0.030	0.024	0.155	0.013			25.2
30.0	11.30	0.040	0.034	0.205	0.023			25.4
50.0	11.50	0.059	0.013	0.210	0.002	0.260	0.247	25.1
75.0	11.60	0.065	0.019	0.205	0.002			25.0
100.0	11.80	0.062	0.010	0.222	0.002			25.5
150.0	12.20	0.060	0.014	0.180	0.002	0.245	0.231	25.5
175.0	12.20	0.072	0.010	0.218	0.002	0.260	0.250	25.4

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.210	126.1	0.005	2.43	400E00		000E00	660E01
10.0	0.380				400E00			
20.0	0.170							
30.0	0.360							
50.0	0.610	133.3			800E00			
75.0	0.490							
100.0	0.490							
150.0	0.760	133.0						
175.0	1.040	134.0			000E00		000E00	450E01

DEPTH	SPC 35
1.0	410E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
150.0	
175.0	360E01

C-REF-NO 009  
 CONS. NO 048  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 0907

NO. DEPTHS 08  
 SOUNDING 1152  
 BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.10	1.8	317	2.1			
10.0		22.01	1.6	311				
20.0		6.59	1.0	341				
30.0		4.89	0.8	340				
49.0		4.28	0.7	331	3.1		81.0	
74.0		3.95	0.4	334				
99.0		3.82	0.5	331				
113.0		3.84	1.5	335	4.2			

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.026	0.015		0.001	0.255	0.240	25.4
10.0	8.40	0.027	0.021		0.001			25.4
20.0	11.00	0.020	0.049	0.138	0.007			25.7
30.0	11.60	0.026	0.032	0.200	0.013			25.4
49.0	11.80	0.047	0.025	0.220	0.001	0.260	0.235	25.2
74.0	11.90	0.056	0.029	0.220	0.001			25.4
99.0	11.90	0.065	0.016	0.217	0.001			25.1
113.0	11.70	0.119	0.018	0.258	0.003	0.230	0.212	25.1

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.680		0.003	3.01	000E00		000E00	470E01
10.0	0.350				000E00			
20.0	0.200							
30.0	0.160							
49.0	0.360	133.0			600E00			
74.0	0.380							
99.0	0.560							
113.0	1.600				000E00		000E00	160E02

DEPTH	SPC 35
1.0	480E01
10.0	
20.0	
30.0	
49.0	
74.0	
99.0	
113.0	520E01

C-REF-NO 009  
 CONS. NO 049  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 1000

NO. DEPTHS 06  
 SOUNDING 0744  
 BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.20	1.4	316	2.4			
10.0		21.98	1.2	319				
20.0		8.45	1.0	346				
30.0		5.80	0.8	347				
50.0		4.72	0.5	342	4.7		81.0	
72.0		4.06	1.5	352	6.0			

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.029	0.024		0.001			25.3
10.0	8.30	0.022	0.012		0.001			25.4
20.0	11.10	0.021	0.032	0.120	0.001			25.8
30.0	11.70	0.032	0.036	0.165	0.010			25.3
50.0	12.30	0.037	0.017	0.205	0.002			25.2
72.0	12.40	0.116	0.042	0.285	0.002	0.230	0.188	26.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.130		0.004	3.48	200E00		000E00	210F01
10.0	0.140				440E01			
20.0	0.110							
30.0	0.190							
50.0	0.240	133.5			140E01			
72.0	1.300				200E00		000E00	710E01

DEPTH	SPC 35
1.0	280E01
10.0	
20.0	
30.0	
50.0	
72.0	460E01

C-REF-NO 009
CONS. NO 050
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 1051

NO. DEPTHS 03  
SCUNDING 0219  
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.01	1.4	312	2.3		78.0	
10.0		21.72	1.2	312				
19.0		17.30	1.2	322	1.5		73.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.035	0.017		0.001			25.6
10.0	8.20	0.047	0.022		0.001			25.8
19.0	8.80	0.050	0.100	0.047	0.006	0.275	0.165	25.6

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.460	127.2	0.005	5.70	000E00	100E00	000E00	250E01
10.0	0.200				200E00			
19.0	0.310	131.1			000E00	200E00	000E00	190E01

DEPTH	SPC 35
1.0	380E01
10.0	
19.0	250E01



C-REF-NO 009  
 CONS. NO 051  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 1244

NO. DEPTHS 05  
 SOUNDING 0411  
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	4.0	22.13	1.7	312	2.5		77.0	
10.0		22.08	1.4	318				
20.0		21.69	1.3	317				
30.0		12.12	1.6	335				
39.0		6.16	1.2	335	3.5		81.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.054	0.040		0.003			25.8
10.0	8.60	0.035	0.023		0.002			25.6
20.0	9.00	0.044	0.027		0.008			25.7
30.0	10.40	0.083	0.022	0.240	0.008			25.9
39.0	10.80	0.090	0.027	0.265	0.007	0.225	0.198	25.6

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.610	126.8	0.005	3.25	600E00	300E00	000E00	160E01
10.0	0.560				000E00			
20.0	0.320							
30.0	1.100							
39.0	1.100	137.4			000E00	000E00	000E00	620E01

DEPTH	SPC 35
1.0	410E01
10.0	
20.0	
30.0	
39.0	310E01

C-REF-NO 009
CONS. NO 052
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 1352

NO. DEPTHS 06  
SOUNDING 0634  
BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		21.91	1.5	309	2.0		78.0	
10.0		21.87	1.3	313				
20.0		11.59	1.5	332				
30.0		8.30	1.0	334				
50.0		4.58	1.2	333	2.6		79.0	
61.0		4.29	1.8	336	4.3		78.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.035	0.030		0.002	0.295	0.265	25.3
10.0	8.60	0.025	0.024		0.002			25.1
20.0	10.60	0.050	0.069	0.068	0.015			25.5
30.0	11.00	0.045	0.026	0.173	0.009			25.9
50.0	12.00	0.070	0.025	0.255	0.004	0.230	0.205	25.7
61.0	12.00	0.100	0.027	0.263	0.007	0.290	0.263	25.4

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.670	126.8	0.001	2.89	100E00		000E00	470E01
10.0	0.400				000E00			
20.0	0.210							
30.0	0.650							
50.0	1.100	137.0			000E00			
61.0		138.3			000E00		000E00	160F02

DEPTH	SPC 35
1.0	420E01
10.0	
20.0	
30.0	
50.0	
61.0	900E01

C-REF-NO 009
CONS. NO 053
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 1451

NO. DEPTHS 08  
SOUNDING 1085  
BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	21.91	1.5	314	2.8		67.0	
10.0		21.78	1.5	313				
20.0		12.23	1.4	323				
30.0		5.99	1.1	330				
50.0		4.04	0.6	333	1.9		83.0	
75.0		3.95	0.7	322				
100.0		3.92	0.6	327				
106.0		3.88	1.3	332	3.0		82.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.50	0.028	0.026		0.002	0.275	0.249	25.3
10.0	8.60	0.023	0.030		0.002			25.1
20.0	9.80	0.040	0.020		0.003			25.3
30.0	10.60	0.050	0.028		0.017			25.5
50.0	11.00	0.045	0.017	0.210	0.009	0.225	0.208	25.2
75.0	12.90	0.046	0.015	0.208	0.004			25.4
100.0	13.00	0.060	0.020	0.212	0.005			25.3
106.0	12.40	0.090	0.020	0.228	0.005	0.195	0.175	25.5

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.540	126.9	0.001	2.66	000E00			220E02
10.0	0.490				100E00			
20.0								
30.0	6.210							
50.0	0.330	134.6			000E00			
75.0	0.400							
100.0	0.620							
106.0	1.100	137.3			100E00		000E00	240E02

DEPTH	SPC 35
1.0	180E02
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
106.0	100E02

C-REF-NO 009  
 CONS. NO 054  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 1610

NO. DEPTHS 09  
 SOUNDING 1688  
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.29	1.5	310	3.4			
10.0		21.98	1.5	308				
20.0		10.38	1.4	325				
30.0		6.26	1.0	324				
50.0		3.98	0.6	325	3.2		79.0	
75.0		3.91	0.4	324				
99.0		3.82	0.3	322				
149.0		3.75	0.3	321				
166.0		3.71	0.4	325	2.3		77.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.040	0.025		0.003	0.255	0.230	25.5
10.0	8.20	0.030	0.024		0.002			25.5
20.0	9.70	0.028	0.028	0.090	0.035			25.3
30.0	10.80	0.030	0.028	0.150	0.032			25.3
50.0	11.30	0.055	0.015	0.205	0.004	0.210	0.195	25.3
75.0	11.60	0.055	0.020	0.205	0.004			25.5
99.0	11.60	0.040	0.020	0.200	0.004			25.3
149.0	11.40	0.054	0.029	0.283	0.004			27.3
166.0	10.60	0.060	0.023	0.190	0.005	0.200	0.177	25.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.100		0.003	2.54	000E00		000E00	700E01
10.0	0.216				200E00			
20.0	0.170							
30.0	0.280							
50.0	0.450	135.1			100E00			
75.0	0.380							
99.0	0.470							
149.0	0.530							
166.0	1.100	135.8			000E00		000E00	130E02

DEPTH	SPC 35
1.0	450E01
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	
149.0	
166.0	600E01

C-REF-NO 009  
 CONS. NO 055  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 1726

NO. DEPTHS 08  
 SOUNDING 1475  
 BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.42	1.2	308	2.7		78.0	
10.0		21.60	1.0	309				
20.0		13.73	1.2	308				
30.0		7.84	0.9	327				
50.0		4.41	0.7	326	3.0		72.0	
75.0		3.98	0.5	327				
100.0		3.88	0.3	329				
146.0		3.76	0.5	330	3.2		60.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.035			0.002	0.250		25.5
10.0	8.30	0.026			0.002			25.4
20.0	9.20	0.067			0.004			25.6
30.0	11.00	0.042		0.115	0.029			25.3
50.0	12.20	0.046		0.177	0.017	0.250		25.4
75.0	12.30	0.042		0.185	0.004			25.3
100.0	12.40	0.046		0.180	0.004			25.2
146.0	12.60	0.070		0.190	0.004	0.225		25.3

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.400	126.4	0.002	2.43	100E00		000E00	110E02
10.0	0.110				000E00			
20.0								
30.0	0.380							
50.0	0.400	135.1			000E00			
75.0	0.330							
100.0	0.650							
146.0	1.100	135.7			000E00		000E00	120E02

DEPTH	SPC 35
1.0	830E01
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
146.0	540E01

C-REF-NO 009  
 CGNS. NO 056  
 COUNTRY IR  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 08  
 TIME 1818

NO. DEPTHS 05  
 SOUNDING 0372  
 BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.0	22.49	1.5	309			78.0	
10.0		21.85	1.3	310				
20.0		10.44	1.0	326				
30.0		6.07	0.8	325				
35.0		5.37	0.9	330	1.8		79.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.037	0.019		0.002	0.280	0.261	25.4
10.0	8.30	0.025	0.021		0.002			25.3
20.0	10.40	0.035	0.047	0.068	0.024			25.3
30.0	11.60	0.039	0.022	0.158	0.016			25.2
35.0	11.60	0.056	0.029	0.185	0.007	0.285	0.256	25.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.490	126.5		3.25	000E00	000E00	000E00	
10.0	0.250				000E00			
20.0	0.140							
30.0	0.400							
35.0	0.540	136.0			750E02	400E00	000E00	170E02

DEPTH	SPC 35
1.0	110E02
10.0	
20.0	
30.0	
35.0	160E02

C-REF-NO 009
CONS. NO 057
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 1951

NO. DEPTHS 04  
SCUNDING 0347  
BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	23.21	2.3	323	2.9		76.0	
10.0		22.53	1.5	330				
20.0		9.95	1.3	343				
31.0		5.32	1.2	344	2.5		66.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.00	0.055	0.024		0.003	0.350	0.326	
10.0	8.20	0.036	0.026		0.002			
20.0	10.90	0.048	0.033	0.110	0.024			25.6
31.0	12.20	0.069	0.039	0.190	0.006	0.280	0.241	25.3

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.340	136.0		8.75	400E00	000E00	000E00	150E02
10.0					200E00			
20.0	0.280							
31.0	0.530	135.8			200E00	600E00	000E00	900E01

DEPTH	SPC 35
1.0	350E02
10.0	
20.0	
31.0	200E02

C-REF-NO 009
CONS. NO 058

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 2110

NO. DEPTHS 04  
SOUNDING 0274  
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.70	1.3	315	0.7		79.0	
10.0		22.21	1.5	313				
20.0		22.00	1.3	313				
26.0		9.53	1.6	349	0.8		88.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.10		0.009		0.008	0.325	0.316	27.2
10.0	8.20		0.010		0.002			26.0
20.0	8.20		0.055		0.002			25.5
26.0	10.20		0.022	0.172	0.013	0.300	0.278	26.6

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.430	126.3	0.001	3.71	400E00		000E00	500E01
10.0					000E00			
20.0	0.380							
26.0	1.100	138.2			100E00	000E00	000E00	800E01

DEPTH	SPC 35
1.0	220E02
10.0	
20.0	
26.0	230E02



C-REF-NO	009
CONS. NO	059
COUNTRY	18
INSTITUTE	22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 2226

NO. DEPTHS 05  
SOUNDING 0427  
BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.89	1.3	317	2.6		78.0	
10.0		22.23	1.1	318				
20.0		21.58	1.4	319				
30.0		7.53	1.5	350				
40.0		6.14	1.6	348	0.8		87.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.090	0.026			0.360	0.334	27.3
10.0	8.30	0.033	0.027					26.3
20.0	8.40	0.040	0.026					26.3
30.0	11.90	0.070	0.030	0.157	0.009			26.5
40.0	12.30	0.077	0.073	0.167	0.007	0.300	0.226	26.1

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.390	126.7	0.003	6.52	000E00	000E00	000E00	130E02
10.0	0.200				000E00			
20.0	0.220							
30.0	0.680							
40.0	1.100	137.2			100E00	000E00	000E00	140E02

DEPTH	SPC 35
1.0	170E02
10.0	
20.0	
30.0	
40.0	240E02

C-REF-NO 009
CGNS. NO 060

COUNTRY 18  
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 08  
TIME 2346

NO. DEPTHS 04  
SOUNDING 0262  
BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	3.5	22.95	0.9	316	0.4		86.0	
10.0		22.95	1.3	317				
20.0		22.01	0.8	319				
23.0		18.19	1.1	336	2.6		82.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.30	0.075	0.022		0.005	0.350	0.328	26.6
10.0	8.30	0.050	0.038		0.004			26.5
20.0	7.20	0.050	0.040		0.009			26.5
23.0	5.60	0.110	0.178	0.057	0.034	0.395	0.217	26.5

DEPTH	R SI02	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.210	126.6	0.003	6.52	200E00	200E00	000E00	900E01
10.0	0.180				000E00			
20.0	0.230							
23.0	0.760	130.6			100E00	000E00	000E00	230E02

DEPTH	SPC 35
1.0	260E02
10.0	
20.0	
23.0	260E02

C-REF-NO 009
CONS. NO 061
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 09  
TIME 0135

NO. DEPTHS 03  
SOUNDING 0201  
BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.08	1.5	319	2.7		80.0	
10.0		21.97	1.5	318				
18.0		20.33	1.2	325	1.8			

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	DRG N	CL
1.0	8.10	0.117	0.084		0.006	0.325	0.241	24.2
10.0	8.20	0.048	0.023		0.003			24.2
18.0	8.30	0.033	0.036		0.006			24.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.240	127.5	0.001	6.99	000E00	000E00	000E00	130E02
10.0	0.380				000E00			
18.0	0.340				100E00	000E00	000E00	100E02

DEPTH	SPC 35
1.0	140E02
10.0	
18.0	400E01

C-REF-NO 009
CONS. NO 062
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 09  
TIME 0243

NO. DEPTHS 05  
SOUNDING 0381  
BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	NE RES	PH 25	TC ALK	BOD P
1.0		22.27	1.6	316	3.0		80.0	
10.0		22.26	1.5	312				
20.0		17.66	1.1	322				
30.0		9.81	1.0	333				
36.0		8.04	1.1	336	2.4			

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.20	0.040	0.023		0.004	0.325	0.302	23.9
10.0	8.20	0.033	0.023		0.004			23.9
20.0	8.60	0.021	0.025		0.009			23.6
30.0	9.60	0.040	0.026		0.006			23.6
36.0	9.60	0.050	0.051		0.007	0.300	0.249	23.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.710	128.6	0.002	6.76	100E00	100E01	000E00	300E01
10.0	0.140				000E00			
20.0	0.250							
30.0	0.740							
36.0	1.100				100E00	000E00	000E00	120F02

DEPTH	SPC 35
1.0	210E02
10.0	
20.0	
30.0	
36.0	160F02

C-REF-NO 009
CONS. NO 063

COUNTRY 18  
INSTITUTE 22

LAT 43-56-00N  
LON 078-13-42W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 0951

NO. DEPTHS 03  
SOUNDING 0213  
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		22.04	2.4	310	3.1			0.8
10.0		20.95	1.9	316				
18.0		16.13	1.7	327	6.8		81.0	1.2

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.00	0.085	0.030		0.019	0.275	0.245	32.9
10.0	8.20	0.035	0.065		0.010			32.6
18.0	8.80	0.030	0.135	0.975	0.067	0.310	0.175	32.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.090	127.2			500E00	700E00	000E00	100E02
10.0					000E00			
18.0	0.240	133.4			100E00	400E00	000E00	120E02

DEPTH	SPC 35
1.0	130E02
10.0	
18.0	130E02

C-REF-NO 009
CONS. NO 064
COUNTRY 18
INSTITUTE 22

LAT 43-55-54N  
LON 078-16-48W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1023

NO. DEPTHS 03  
SOUNDING 0183  
BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.85	2.3	314	2.1		77.0	
10.0		20.66	2.3	317				
15.0		16.78	2.4	320	1.4		83.0	

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	0.80	0.040	0.015		0.010	0.350	0.335	32.6
10.0	0.82	0.035	0.025		0.010			32.5
15.0	0.88	0.020	0.040	0.075	0.065	0.400	0.360	32.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.180	126.9						
10.0	0.140							
15.0	0.280	133.2						

DEPTH	SPC 35
1.0	
10.0	
15.0	

C-REF-NO 009
CONS. NO 065

COUNTRY 18  
INSTITUTE 22

LAT 43-55-24N  
LON 078-19-06W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1055

NO. DEPTHS 03  
SOUNDING 0201  
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.90	2.5	310	2.1		78.0	
10.0		18.74	1.7	319				
17.0		15.53	1.5	324	1.4		82.0	

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	7.90	0.040	0.045		0.008	0.285	0.240	32.8
10.0	8.30	0.035	0.055		0.037			32.9
17.0	9.00	0.025	0.040	0.087	0.072	0.325	0.285	32.6

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.060	127.2						
10.0	0.096							
17.0	0.100	133.8						

DEPTH	SPC 35
1.0	
10.0	
17.0	

C-REF-NO 009  
 CONS. NO 066  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-40-18N  
 LON 079-14-18W

YEAR 1967  
 MONTH 08  
 DAY 09  
 TIME 1526

NO. DEPTHS 03  
 SOUNDING 0192  
 BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	19.29	2.5	323	2.4		78.0	
9.0		19.58	2.7	321				
16.0		15.37	2.6	325	3.6		83.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.055	0.040		0.019	0.310	0.270	27.6
9.0	8.90	0.040	0.050		0.011			27.7
16.0	9.50	0.025	0.045	0.003	0.038	0.300	0.255	27.9

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCD	MF STR	SPC 20
1.0	0.560	130.3						
9.0	0.410							
16.0	0.440	134.1						

DEPTH	SPC 35
1.0	
9.0	
16.0	



C-REF-NO 009
CONS. NO 067
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1606

NO. DEPTHS 03  
SOUNDING 0168  
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.09	2.9	323	2.7		82.0	
9.0		17.84	4.2	329				
12.0		17.46	4.0	327	3.5		82.0	

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.040	0.050		0.002	0.315	0.265	27.5
9.0	9.10	0.050	0.045		0.004			27.8
12.0	9.30	0.045	0.040		0.003	0.320	0.280	28.0

DEPTH	R SID2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.380	129.5						
9.0	0.510							
12.0	0.430	132.6						

DEPTH	SPC 35
1.0	
9.0	
12.0	

C-REF-NO 009
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 43-36-12N  
LON 079-25-24W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1702

NO. DEPTHS 05  
SOUNDING 0421  
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CUN	NF RES	PH 25	TC ALK	BOD P
1.0	1.5	20.35	3.2	321	3.3			1.1
10.0		16.14	2.8	329				
20.0		12.22	2.5	333				
30.0		11.02	2.3	339				
40.0		9.27	2.5	342	2.4			1.0

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.040	0.030		0.002	0.320	0.290	28.0
10.0	9.40	0.035	0.050		0.002			27.7
20.0	10.40	0.020	0.050	0.575	0.003			27.7
30.0	10.60	0.025	0.045	0.070	0.004			27.7
40.0	11.00	0.040	0.080	0.085	0.006	0.410	0.330	28.3

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCD	MF STR	SPC 20
1.0	0.600		0.002		400E00	100E00	000E00	970F02
10.0	0.380				180E01			
20.0	0.305							
30.0	0.335							
40.0	0.390				600E00	200E00	200E00	100E02

DEPTH	SPC 35
1.0	120E02
10.0	
20.0	
30.0	
40.0	130E02

C-REF-NO 009
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 43-34-42N  
LON 079-29-12W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1801

NO. DEPTHS 04  
SCUNDING 0290  
BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.35	2.0	330	3.8		81.0	
10.0		16.96	2.6	328				
20.0		13.22	2.5	333				
27.0		10.96	2.1	336	2.2		84.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.40	0.040	0.035		0.002	0.385	0.350	28.4
10.0	9.10	0.030	0.060		0.003			28.6
20.0	9.90	0.010	0.040		0.004			28.2
27.0	10.60	0.025	0.065	0.065	0.004	0.390	0.325	28.0

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.360	129.9						
10.0	0.290							
20.0	0.250							
27.0	0.230	136.2						

DEPTH	SPC 35
1.0	
10.0	
20.0	
27.0	

C-REF-NO 009  
 CONS. NO 070  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-33-06N  
 LON 079-32-30W

YEAR 1967  
 MONTH 08  
 DAY 09  
 TIME 1833

NO. DEPTHS 03  
 SCUNDING 0219  
 BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.24	3.0	320	5.4		80.0	
10.0		16.59	2.5	327				
20.0		11.44	2.9	341	4.9		85.0	

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.035	0.040		0.002	0.350	0.310	28.2
10.0	9.00	0.030	0.070		0.002			28.8
20.0	10.20	0.035	0.090	0.075	0.005	0.350	0.260	28.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.520	128.3						
10.0	0.195							
20.0	0.500	135.0						

DEPTH	SPC 35
1.0	
10.0	
20.0	

C-REF-NO 009
CONS. NO 071
COUNTRY 18
INSTITUTE 22

LAT 43-30-24N  
LON 079-33-06W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1908

NO. DEPTHS 04  
SOUNDING 0351  
BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	1.5	21.37	2.9	321	2.9		79.0	1.0
10.0		12.24	2.2	324				
20.0		9.19	2.1	333				
30.0		6.74	1.5	331	3.3		84.0	3.0

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.50	0.040	0.035		0.001	0.275	0.240	29.1
10.0	10.30	0.035	0.060		0.003			29.3
20.0	11.20	0.040	0.075	0.100	0.005			29.3
30.0		0.045	0.055	0.135	0.007	0.330	0.275	29.1

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.078	127.8	0.002		000E00	000E00	000E00	200E02
10.0	0.205				900E00			
20.0	0.260							
30.0	0.545	135.5			500E00	100E00	000E00	120F03

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	

C-REF-NO 009
CONS. NO C72
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 08  
DAY 09  
TIME 1946

NO. DEPTHS 05  
SOUNDING 0530  
BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	1.0	20.65	3.1	318	4.3		80.0	1.7
10.0		13.69	3.1	319				
20.0		8.80	1.8	321				
30.0		6.82	1.5	325				
50.0		5.72	1.4	323	3.5		85.0	2.5

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.60	0.035	0.035		0.001	0.325		29.2
10.0	10.00	0.030	0.035		0.001			29.4
20.0	11.20	0.045	0.055	0.001	0.005			29.2
30.0	11.60	0.040	0.030	0.128	0.007			29.2
50.0	11.80	0.040	0.040	0.178	0.016	0.325	0.285	29.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.078	128.4	0.001		000E00	500E00	000E00	350E02
10.0	0.310				000E00			
20.0	0.410							
30.0	0.465							
50.0	0.620	136.4			000E00	000E00	000E00	150E03

DEPTH	SPC 35
1.0	390E02
10.0	
20.0	
30.0	
50.0	290E02

C-REF-NO 009
CONS. NO 073

COUNTRY 18  
INSTITUTE 22

LAT 43-33-18N  
LON 079-25-48W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 2032

NO. DEPTHS 06  
SOUNDING 0597  
BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.29	3.3	309	1.7		79.0	3.5
10.0		15.09	3.1	317				
20.0		6.53	1.8	323				
30.0		5.50	1.4	325				
50.0		4.40	0.9	327			79.0	
58.0		4.32	1.0	326	0.4		85.0	0.8

DEPTH	D 02 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.00	0.040	0.025			0.275	0.250	29.2
10.0	10.20	0.030	0.045					29.0
20.0	11.90	0.055	0.080	0.127	0.004			28.7
30.0	12.50	0.045	0.070	0.158	0.007			28.7
50.0	12.90	0.050	0.240	0.195	0.012	0.305	0.065	29.1
58.0	12.40	0.025	0.060	0.198	0.015			28.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.660	128.2	0.001		000E00	000E00	000E00	380E02
10.0	0.080				000E00			
20.0	0.240							
30.0	0.370							
50.0	0.340	136.4			000E00			
58.0	0.540	136.8			400E00	000E00	000E00	320E02

DEPTH	SPC 35
1.0	230E02
10.0	
20.0	
30.0	
50.0	
58.0	

C-RFF-NO 009  
 CONS. NO 074  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-34-30N  
 LON 079-22-00W

YEAR 1967  
 MONTH 08  
 DAY 09  
 TIME 2115

NO. DEPTHS 06  
 SOUNDING 0774  
 BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	21.25	2.8	312	2.6		79.0	1.3
10.0		14.25	2.3	320				
20.0		5.68	2.2	326				
30.0		4.95	1.0	332				
50.0		4.80	0.8	328	4.1		84.0	
75.0		4.44	1.0	328	4.1		83.0	2.3

DEPTH	D 02 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.030	0.020		0.001			27.2
10.0	9.60	0.015	0.040		0.001			29.4
20.0	10.40	0.045	0.045	0.058	0.004			29.0
30.0	10.60	0.030	0.055	0.175	0.008			29.3
50.0	10.80	0.025	0.070	0.178	0.011	0.385	0.315	29.2
75.0	10.60	0.025	0.060	0.195	0.012	0.415	0.355	29.2

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.570	127.6	0.005		000E00	000E00	000E00	310E02
10.0	0.150				000E00			
20.0	0.290							
30.0	0.300							
50.0	0.390	136.4			000E00			
75.0	0.660	136.0			000E00	100E00	460E01	190E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	



C-REF-NO 009
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 43-35-42N  
LON 079-18-24W

YEAR 1967  
MONTH 08  
DAY 09  
TIME 2201

NO. DEPTHS 07  
SOUNDING 0872  
BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	21.22	2.8	312	1.5		80.0	1.5
10.0		14.12	2.2	323				
20.0		9.28	2.3	324				
30.0		5.63	0.9	338				
50.0		5.08	0.8	326			75.0	
75.0		4.21	0.8	328				
85.0		4.15	0.7	325			84.0	2.7

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.90	0.035	0.030		0.001	0.320	0.290	29.9
10.0	9.80	0.025	0.065	0.030	0.003			30.3
20.0	11.10	0.025	0.040	0.050	0.003			30.1
30.0	11.60	0.040	0.070	0.145	0.006			30.1
50.0	11.80	0.035	0.100	0.155	0.009	0.350	0.250	30.2
75.0	12.00	0.030	0.060	0.193	0.020			30.2
85.0	11.90	0.015	0.030	0.200	0.020	0.300	0.270	30.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.078	127.5			110E01	000E00	000E00	400E02
10.0	0.215				400ECO			
20.0	0.320							
30.0	0.320							
50.0	0.450	136.0			000E00			
75.0	0.350							
85.0	0.078	135.8			000E00		000E00	250E02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
85.0	

C-REF-NO 009  
 CONS. NO 076  
 CCOUNTRY 18  
 INSTITUTE 22

LAT 43-37-18N  
 LON 079-14-36W

YEAR 1967  
 MONTH 08  
 DAY 09  
 TIME 2246

NO. DEPTHS 07  
 SCUNDING 0896  
 BT SLIDE NO 076

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	20.85	2.4	311	2.1		80.0	2.2
10.0		14.62	2.2	316				
20.0		7.84	1.1	328				
30.0		4.14	0.8	320				
50.0		4.04	0.5	320			84.0	
75.0		3.98	2.1	323				
87.0		3.93	2.2	330			85.0	2.9

DEPTH	D 02 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.040	0.025		0.001	0.390	0.365	30.2
10.0	10.20	0.025	0.040		0.001			30.2
20.0	11.60	0.035	0.055	0.100	0.004			30.0
30.0	12.80	0.010	0.040	0.180	0.014			29.6
50.0	13.00	0.010	0.020	0.198	0.015	0.260	0.240	28.8
75.0	13.20	0.025	0.040	0.210	0.020			29.6
87.0	12.80	0.035	0.050	0.210	0.020	0.240	0.190	29.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.470	129.1			100E01	000E00	000E00	710E02
10.0	0.320				200E00			
20.0	0.200							
30.0	0.370							
50.0	0.360	135.3			000E00			
75.0	0.540							
87.0	0.078	136.2			400E00	000E00	000E00	820E02

DEPTH SPC 35

1.0  
 10.0  
 20.0  
 30.0  
 50.0  
 75.0  
 87.0

C-REF-NO 009  
 CONS. NO 077  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 09  
 TIME 2333

NO. DEPTHS 07  
 SOUNDING 0872  
 BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP. CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.0	20.95	2.3	319	1.6		80.0	2.4
10.0		14.26	2.5	323				
20.0		5.85	1.6	329				
30.0		4.08	0.5	327				
50.0		3.98	0.3	328			82.0	
75.0		3.84	0.6	328				
85.0		3.82	0.5	328			83.0	4.2

DEPTH	D O2 P	R PD4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.40	0.040	0.040			0.410	0.370	30.2
10.0	10.80	0.030	0.040					29.3
20.0	12.60	0.035	0.035	0.105	0.003			29.7
30.0	13.60	0.015	0.030	0.195	0.017			29.7
50.0	13.40	0.035	0.060	0.200	0.015	0.310	0.250	29.7
75.0	13.40	0.040	0.040	0.200	0.001			29.7
85.0	12.80	0.055	0.030	0.210	0.005	0.290	0.260	29.7

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.310	129.1			000E00	000E00	000E00	120E03
10.0	0.290				000E00			
20.0	0.160							
30.0	0.330							
50.0	0.470	135.0			200E00			
75.0	0.615							
85.0	0.078	135.4			200E00	000E00	000E00	290E03

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
85.0	380E03

C-REF-NO 009  
 CONS. NO 078  
 COUNTRY 18  
 INSTITUTE 22

LAT 43-34-12N  
 LON 079-14-54W

YEAR 1967  
 MONTH 08  
 DAY 10  
 TIME 0029

NO. DEPTHS 08  
 SOUNDING 1079  
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0	2.5	18.13	1.9	312	2.5		79.0	1.6
10.0		9.07	1.6	320				
20.0		4.10	0.4	325				
30.0		4.11	0.4	326				
50.0		3.99	0.3	328			83.0	
75.0		3.91	0.3	326				
100.0		3.78	0.5	326				
106.0		3.81	0.6	328			85.0	3.7

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	10.20	0.030	0.050			0.375	0.325	29.7
10.0	11.60	0.040	0.030		0.001			29.8
20.0	12.20	0.005	0.025	0.198	0.015			29.6
30.0	12.80	0.005	0.020	0.198	0.015			29.5
50.0	12.60	0.030	0.020	0.200	0.011	0.275	0.755	28.8
75.0	12.90	0.040	0.030	0.200	0.002			29.2
100.0	12.60	0.060	0.035	0.210	0.003			29.1
106.0	12.40	0.070	0.025	0.210	0.005	0.260	0.235	29.1

DEPTH	R S102	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.130	130.2			430E01	000E00	600E00	100E04
10.0	0.325				000E00			
20.0	0.430							
30.0	0.410							
50.0	0.490	134.2			000E00			
75.0	0.440							
100.0	0.007							
106.0	0.007	136.8			000E00	000E00	000E00	800E01

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
100.0	
106.0	

C-REF-NO 009
CONS. NO 079
COUNTRY 18
INSTITUTE 22

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

YEAR 1967  
MONTH 09  
DAY 10  
TIME 0115

NO. DEPTHS 07  
SOUNDING 1012  
BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.00	1.7	316	2.3		80.0	1.1
10.0		6.93	0.2	321				
20.0		4.09	0.4	326				
30.0		4.06	0.5	324				
50.0		3.97	0.3	322			83.0	
75.0		3.89	0.2	325				
99.0		3.79	0.4	329			84.0	3.7

DEPTH	D O2 P	R P04	NH3	NO3 NF	NO2 NF	TKJ N	URG N	CL
1.0	9.80	0.025	0.020			0.310	0.290	28.8
10.0	12.20	0.030	0.025	0.060	0.003			29.0
20.0	12.50	0.015	0.020	0.195	0.015			28.7
30.0	12.40	0.020	0.020	0.185	0.015			28.6
50.0	13.20	0.030	0.015	0.190	0.009	0.265	0.250	28.6
75.0	12.90	0.040	0.025	0.198	0.001			28.3
99.0	17.40	0.065	0.020	0.205	0.003	0.270	0.250	28.2

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.105	129.5			000E00	000E00	000E00	390F03
10.0	0.420				000E00			
20.0	0.400							
30.0	0.430							
50.0	0.400	134.8			000E00			
75.0	0.430							
99.0	0.006	136.0			000E00	000E00	000E00	190F02

DEPTH	SPC 35
1.0	
10.0	
20.0	
30.0	
50.0	
75.0	
99.0	100E02

C-REF-NO 009  
 CONS. NO 080  
 COUNTRY 18  
 INSTITUTE 22

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

YEAR 1967  
 MONTH 08  
 DAY 10  
 TIME 0203

NO. DEPTHS 07  
 SOUNDING 0969  
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	MF RES	PH 25	TC ALK	BOD P
1.0		19.23	2.3	311			81.0	1.0
10.0		5.28	1.0	324				
20.0		4.10	0.4	325				
30.0		4.09	0.4	333				
50.0		3.97	0.6	336			83.0	
75.0		3.85	0.8	334				
95.0		3.89	0.7	336				1.3

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	8.70	0.030	0.025		0.001	0.360	0.335	28.0
10.0	10.40	0.025	0.025	0.123	0.002			27.9
20.0	11.00	0.015	0.020	0.183	0.012			27.8
30.0	11.00	0.015	0.020	0.180	0.014			27.9
50.0	10.80	0.035	0.025	0.183	0.012	0.215	0.190	27.2
75.0	10.60	0.050	0.025	0.190	0.001			27.4
95.0	10.40	0.065	0.030	0.208	0.016			27.8

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.320	129.1			000E00	000E00	000E00	870F02
10.0	0.400				000E00			
20.0	0.400							
30.0	0.430							
50.0	0.460	134.8			000E00			
75.0	0.630							
95.0	0.007				000E00			840E01

DEPTH	SPC 35
1.0	400E02
10.0	
20.0	
30.0	
50.0	
75.0	
95.0	110F02

C-REF-NO 009
CONS. NO 081
COUNTRY 18
INSTITUTE 22

LAT 43-30-24N  
LON 079-26-00W

YEAR 1967  
MONTH 08  
DAY 10  
TIME 0249

NO. DEPTHS 07  
SOUNDING 0860  
BT SLIDE NO 081

DEPTH	SECCHI	TEMP	TURB	SP CON	NF RES	PH 25	TC ALK	BOD P
1.0		19.56	1.2	325			78.0	0.6
10.0		13.76	1.8	324				
20.0		4.19	0.9	331				
29.0		4.07	0.7	337				
49.0		3.96	0.6	342			81.0	
73.0		4.05	0.6	337				
82.0		4.02	1.6	339			80.0	0.7

DEPTH	D O2 P	R PO4	NH3	NO3 NF	NO2 NF	TKJ N	ORG N	CL
1.0	9.10	0.020	0.025		0.001	0.295	0.270	27.7
10.0	10.10	0.050	0.035		0.001			27.8
20.0	11.10	0.020	0.025	0.185	0.016			27.8
29.0	11.10	0.010	0.020	0.180	0.017			27.8
49.0	11.00	0.040	0.015	0.190	0.015	0.260	0.245	27.8
73.0	11.20	0.035	0.040	0.190	0.022			27.9
82.0	11.10	0.040	0.025	0.193	0.022	0.310	0.285	27.9

DEPTH	R SIO2	HARD	PHEN	CHLORA	MF COL	MF FCO	MF STR	SPC 20
1.0	0.250	127.1			000E00	000E00		
10.0	0.120				000E00			
20.0	0.240							
29.0	0.315							
49.0	0.460	134.7			000E00			
73.0	0.420							
82.0	0.460	129.7			000E00	000F00		

DEPTH	SPC 35
1.0	
10.0	
20.0	
29.0	
49.0	
73.0	
82.0	