1966

LIMNOLOGICAL DATA REPORT NO. 9

LAKE ONTARIO

CRUISE 66 - 12, AUGUST 15 - 19

CRUISE 66 - 14, AUGUST 29 - SEPTEMBER 2

PUBLISHED BY

CANADIAN OCEANOGRAPHIC DATA CENTRE

CANADA CENTRE FOR INLAND WATERS

BURLINGTON • ONTARIO

Programmed by

GREAT LAKES DIVISION

INLAND WATERS BRANCH

DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

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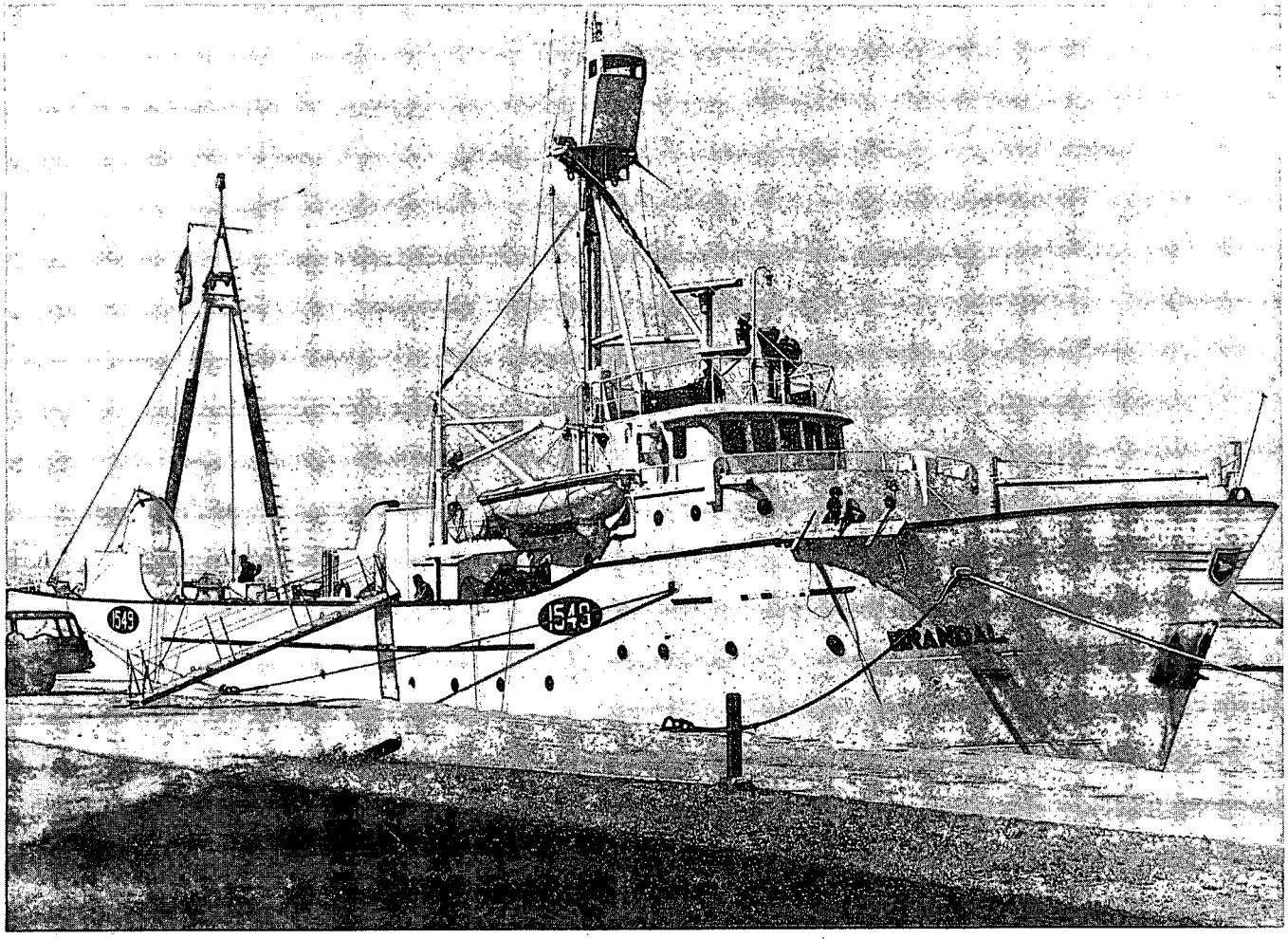

M.V. "Brandal"

CANADA

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1969

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 and Lake Erie, observed by Government of Canada agencies. The first twelve reports cover the year 1966, during which Lake Ontario was surveyed from June 1 to October 3, and Lake Erie, from August 8 to August 14.

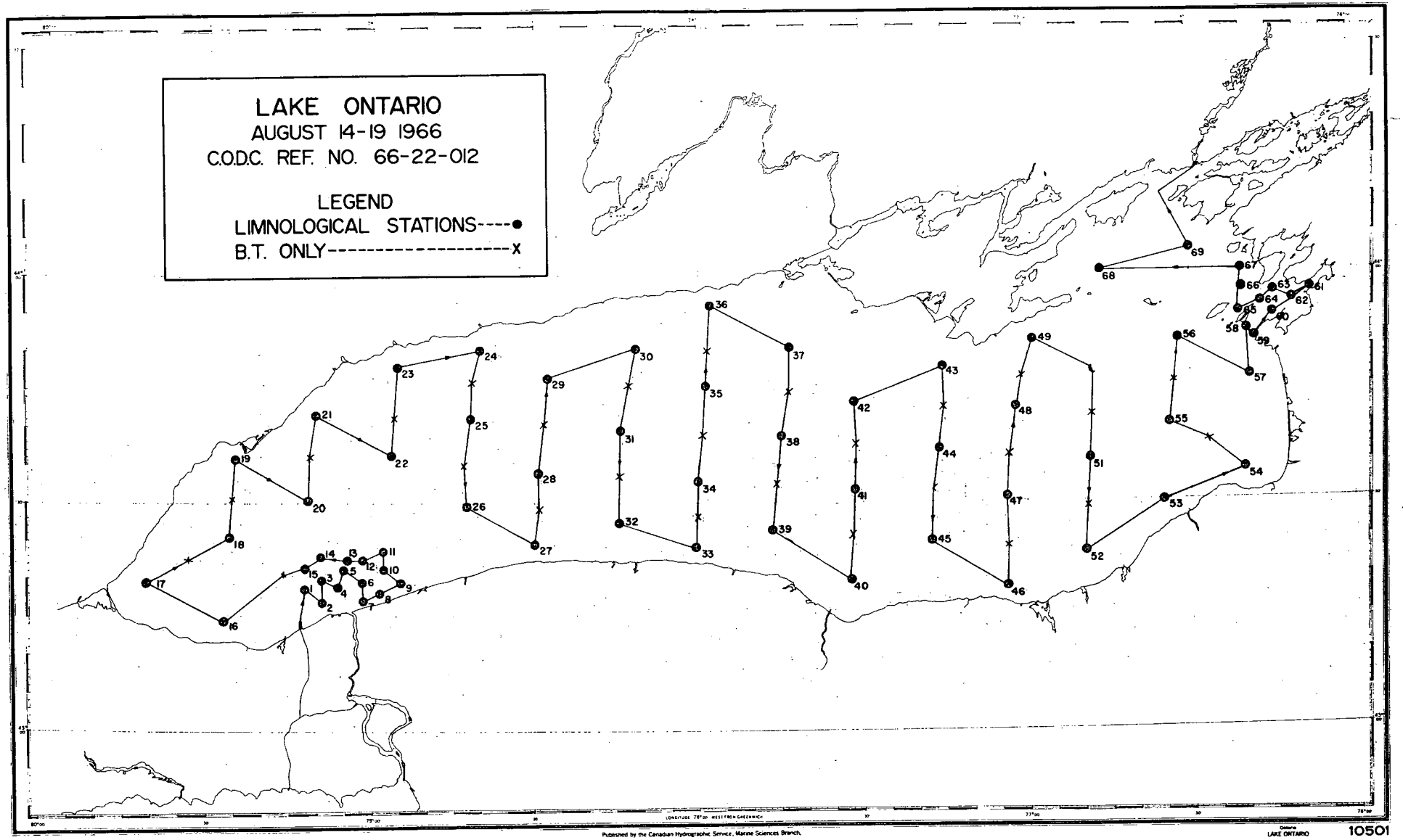
The 1966 surveys were carried out by the Great Lakes Division (Inland Waters Branch) and the Canadian Hydrographic Service (Marine Sciences Branch), both of which are Branches of the Department of Energy, Mines and Resources, and by the Public Health Engineering Division of the Department of National Health and Welfare. Staff from the three agencies carried out the work aboard the 140-foot stern trawler "Brandal", chartered by the Department of Energy, Mines and Resources.

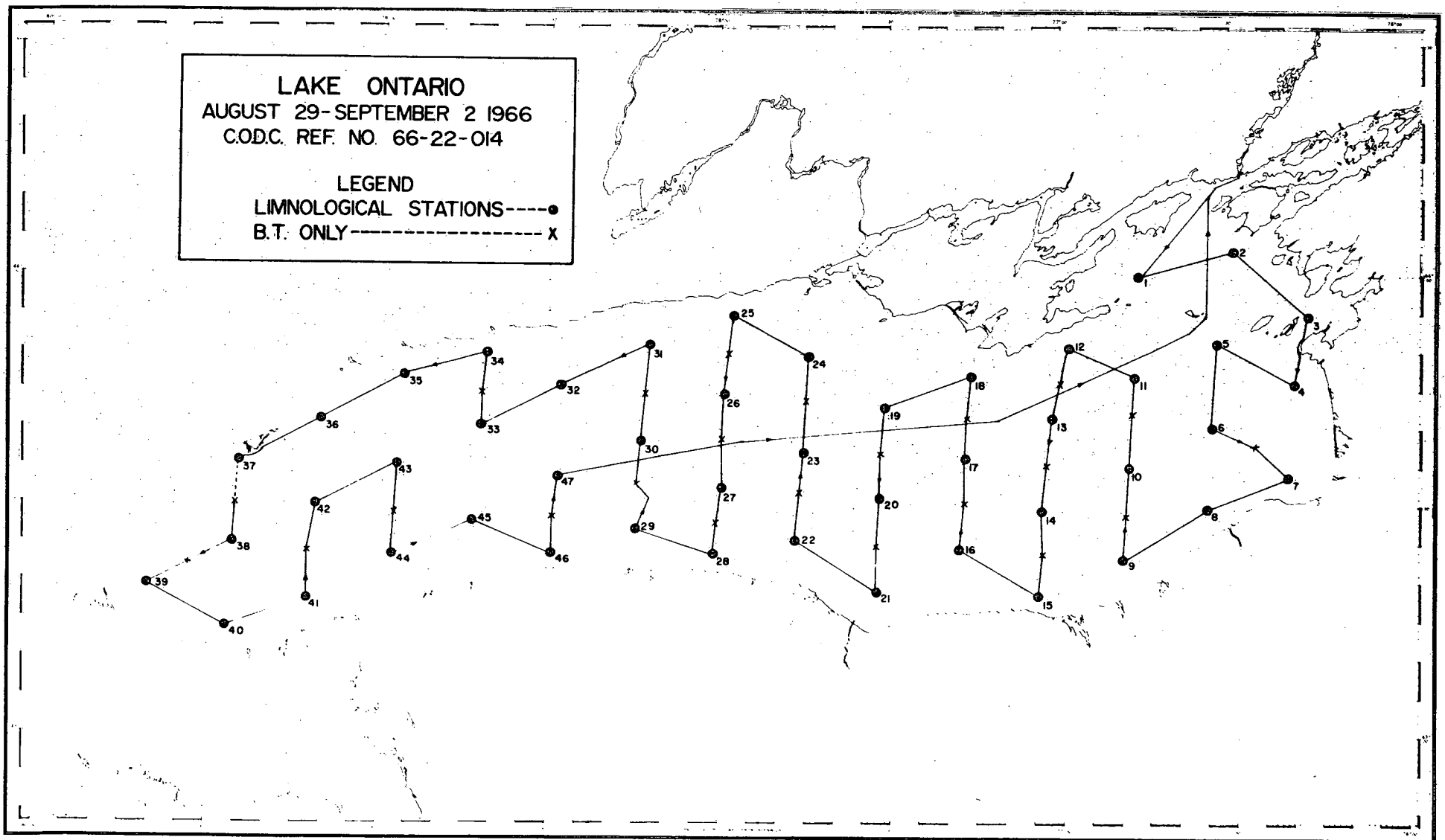
Water-quality data gathered during eighteen cruises in 1966 are contained in twelve separate reports in the present series. Not reported on is a nineteenth cruise, from August 23 to 28, which was for seismic purposes only. Supplementary bathythermograph data and weather data are available on request 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. 67-1 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.

Figure 1 shows 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
AUGUST 14-19 1966
C.O.D.C. REF. NO. 66-22-012
LEGEND
LIMNOLOGICAL STATIONS----●
B.T. ONLY----------X
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
Published by the Canadian Hydrographic Service, Marine Sciences Branch.
LAKE ONTARIO
10501



Published by the Canadian Hydrographic Service, Marine Sciences Branch

LAKE ONTARIO

10501

Summary of the cruises and data listed in Data Reports Nos. 1 to 12. (An "X" indicates that the parameter is reported for one or more stations in the particular cruise).

Data Report No.	1		2	3	4	5	6	
Cruise No.	66-1	66-2	66-3	66-4	66-5	66-6	66-7	66-8
Dates (1966)	June 1 -June 5	June 7 -June 10	June 15 -June 19	June 21 -June 25	June 26 -June 30	July 4 -July 10	July 12 -July 15	July 19 -July 24
Cruise type	Physical	Monitor	Physical	Monitor	Coastal	Monitor	Geology	Monitor
Lake	Ontario	Ontario	Ontario	Ontario	Ontario	Ontario	Ontario	Ontario
Vessel	Brandal	Brandal	Brandal	Brandal	Brandal	Brandal	Brandal	Brandal
No. of stations	35	39	107	88	113	125	75	88
No. of BT slides	133	39	120	88	115	125	76	116
Station data:								
Date/time	X	X	X	X	X	X	X	X
Sounding	X	X	X	X	X	X	X	X
BT slide no.	X	X	X	X	X	X	X	X
Secchi depth	X	X	X	X	X	X		X
Sample depth	X	X	X	X	X	X	X	X
Temperature	X	X	X	X	X	X		X
Conductance, 18°C.	X	X		X	X	X	X	X
Dissolved oxygen				X	X	X	X	X
pH at 25°C.				X	X	X	X	X
Turbidity					X			X
B.O.D.						X		X
Total alkalinity		X		X	X	X		X
Hardness					X	X		X
Chloride					X	X		X
Nitrate + nitrite								
Nitrite				X	X	X		X
Reactive phosphate								
Phenol					X	X		X
Total residue								
MF coliforms	X	X		X	X	X		X
MF enterococci	X	X		X	X	X		X
20°C standard plate count		X			X	X		X
35°C standard plate count		X			X	X		X

7		8	9		10		11	12	
66-9	66-10	66-11	66-12	66-14	66-15	66-16	66-17	66-18	66-19
July 26 -July 29	Aug. 2 -Aug. 7	Aug. 8 -Aug. 14	Aug. 15 -Aug. 19	Aug. 29 -Sept. 2	Sept. 6 -Sept. 11	Sept. 12 -Sept. 16	Sept. 20 -Sept. 24	Sept. 26 -Sept. 29	Oct. 1 -Oct. 3
Physical Ontario Brandal	Monitor Ontario Brandal	Monitor Erie Brandal	Monitor Ontario Brandal	Monitor Ontario Brandal	Geology Ontario Brandal	Monitor Ontario Brandal	Coastal Ontario Brandal	Monitor Ontario Brandal	Physical Ontario Brandal
62	79	105	69	47	92	54	109	47	45
105	106	97	96	70	92	81	109	72	94
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X		X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X		X	X	X	X
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
		X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	

Description of the Data Record

Information in the headings for each station:

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

Explanations:

(1) Cruise number: the 1966 cruises are numbered consecutively from 01 to 19, without regard for the lake involved. (In following years, consecutive numbers will be assigned to each lake separately).

(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 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	1966 processing code	1967 (Star System) code
Secchi depth	SECCHI	meters	1	026	030
Sample depth	DEPTH	meters	1	998	001
Temperature	TEMP	°C	2	004	100
Conductance, 18°C.	CON 18	µmhos	0	014	no equivalent
Dissolved oxygen	D 02	mg/L	2	003	245
pH at 25°C.	PH 25	pH units	3	055	215
Turbidity	TURB	Jackson units	1	015	123
B.O.D.	BOD	mg O_2/L/5 days	1	001	239
Total alkalinity	T ALK	mg $CaCO_3$/L	1	051	220
Hardness	HARD	mg $CaCO_3$/L	1	050	300
Chloride	CL	mg/L	1	057	290
Nitrate + nitrite	NO3NO2	mg N/L	3	022	275
Nitrite	NO2	mg N/L	3	021	273
Reactive phosphate	R PO4	mg PO_4/L	3	028	262
Phenol	PHEN	mg C_6H_5OH/L	3	024	410
MF coliforms	MF COL	colonies/100 ml.	*	080	700
MF enterococci	MF ENT	colonies/100 ml.	*	084	706
20°C standard plate count	SPC 20	colonies/ml.	*	082	720
35°C standard plate count	SPC 35	colonies/ml.	*	083	721

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

130E02 = 1.30 X 10^2 = 130.
100E00 = 1.00 X 10^0 = 1.
000E00 = 0.00 X 10^0 = 0.

* Exponential Notation

Note: For some parameters, the analytical methods listed in the Star System manual (Glennie and MacLeod 1967, pp. 23-33) are not the methods used for Data Reports Nos. 1-12.

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. (I.J.C. agencies 1966, 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.

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 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. (U.S. hydrographic Office 1955).

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.

Storage conditions for the chemical samples Most of the analyses reported here were done in the ship's laboratory and were completed within about 12 hours after sampling.

Conductance at 18°C The electrical conductance was measured at laboratory temperature with an "Industrial Instruments" Model RC 16 B2 bridge and a dip cell with cell constant 1.00. At the time of the measurement, the temperature of the sample was measured with a mercury thermometer and recorded to the nearest 0.1°C. These temperature readings varied throughout the survey period, with a range of from 15 to 28°C.

Conductance at 18.0°C listed in the Data Reports Nos. 1 to 12, was computed from Dr. G.K. Rodgers' correction tables for Great Lakes Waters (I.J.C. agencies 1966, p. 51). However, 25°C will be the reference temperature used in future data reports in this series. To convert the conductance at 18.0°C to conductance at 25.0°C, multiply by 1.176.

Dissolved oxygen was measured using the Winkler iodometric method. One milliliter of each reagent was added to each sample. In 1966, the alkaline iodide solution contained 700 grams potassium hydroxide and 150 grams potassium iodide per liter. Azide was not used. (I.J.C. agencies 1968, pp. 67-78).

Oxygen percent saturation may be computed (Dobson 1967) from the measured oxygen concentration and the temperature, using the following equations:

Oxygen percent saturation (Lake Erie and upper Great Lakes)

$$= \frac{100 \text{ (oxygen in mg/L)}}{(14.380 - 0.4105\ T + 0.008800\ T^2 - 0.00009500\ T^3)} \%$$

Oxygen percent saturation (Lake Ontario)

$$= \frac{98.8 \text{ (oxygen in mg/L)}}{(14.380 - 0.4105 + 0.008800\ T^2 - 0.00009500\ T^3)} \%$$

A graph showing percent saturation as a function of oxygen concentration and temperature, according to either of these equations, provides a convenient way to evaluate percent saturation.

pH The pH is an approximate measure of ($-\log H^+$) where H^+ is the hydrogen ion concentration.

pH	H^+	
7.0	$100. \times 10^{-9}$	gm atoms/liter
7.2	$63. \times 10^{-9}$	gm atoms/liter
7.5	$32. \times 10^{-9}$	gm atoms/liter
8.0	$10. \times 10^{-9}$	gm atoms/liter
8.2	6.3×10^{-9}	gm atoms/liter
8.5	3.2×10^{-9}	gm atoms/liter
9.0	1.0×10^{-9}	gm atoms/liter

Samples were analysed for pH about 10 to 20 hours after sampling. Changes in pH during the storage interval were probably ±0.1 to 0.3 pH units.

The pH near 25°C was measured using a Corning Model 10 meter, and glass and reference electrodes, calibrated with pH 7.4 (phosphate) and pH 9.2 (borax) standard solution. (I.J.C. agencies 1966, pp. 112-120).

Turbidity was measured within 24 hours after sampling, using a Hellige turbidimeter.

B.O.D. (Biochemical oxygen demand) One-liter samples were stored for a few hours so that they attained laboratory temperature. Then air was bubbled through each sample to produce oxygen concentrations near the equilibrium value for that temperature. Two 300-ml B.O.D. bottles were filled from each sample by means of a siphon. Dissolved oxygen in the sample of one of the B.O.D. bottles was measured immediately by the Winkler method. The sample in the other bottle was stored in the dark at 20°C, and after 5 days, its final oxygen concentration was measured. The "B.O.D." was the difference between the initial and final oxygen concentrations. A water seal was maintained around the top of each bottle during incubation. The dilution and seeding procedures of the American Public Health Association (1965, p. 415), were not included.

Alkalinity was measured using an Auto-Analyzer colorimetric instrument system. Samples were mixed with a buffered acidic methyl orange indicator solution. The final color was measured at 550 millimicrons. Standard solutions contained sodium bicarbonate. (I.J.C. agencies 1968, pp. 34-36). The unit for alkalinity in this report is mg $CaCO_3$/liter. The constituents reacting with the hydrogen ion during the alkalinity measurement were assumed to be CO_3^{-2}, and an equivalent amount of Ca^{++} was arbitrarily assumed to be present. Actually most of the alkalinity in Great Lakes waters is HCO_3^-. Conversion factor for alkalinity: 1 mg $CaCO_3$/liter = 1.219 mg HCO_3^-/liter.

Hardness ($Ca^{++} + Mg^{++}$) was measured using an Auto-Analyzer. The sample was mixed with disodium magnesium EDTA + disodium EDTA, then with Eriochrome Black T + pH 10.3 buffer. The resulting color was measured at 520 millimicrons. Standard solutions contained calcium. (I.J.C. agencies 1966, pp. 91-93). Lake-water samples contained some magnesium as well as calcium. The conventional unit, mg $CaCO_3$/L, used in Data Reports Nos. 1 to 12, gives information for ($Ca^{++} + Mg^{++}$), but not for Ca^{++} or CO_3^{-2}. Conversion factor for hardness: 1 mg $CaCO_3$/L = 0.0200 milli-equivalents ($Ca^{++} + Mg^{++}$)/L.

Chloride was measured using an Auto-Analyzer. Unfiltered samples were mixed with ferric ammonium sulfate + nitric acid + mercuric thiocyanate. The resulting color was measured at 480 millimicrons. (I.J.C. agencies 1966, pp. 97-98).

Nitrate + nitrite was measured using an Auto-Analyzer. Samples were not filtered. Nitrate was reduced to nitrite by adding sodium hydroxide, hydrazine sulfate, and copper sulfate. The mixture was passed through a 38°C heating bath. Then total nitrite was measured by adding orthophosphoric acid + sulfanilamide + N-(1-naphthyl) ethylenediamine dihydrochloride, and measuring the resulting color at 520 millimicrons. (I.J.C. agencies 1966, pp. 102-104).

(NO_3 + NO_2) was sampled on cruises 5, 6, 8 and 10, but the results for the 4°C water in Lake Ontario on those cruises were near 0.5 mg N/L, about $2\frac{1}{2}$ times the values found on cruise 66-12 and subsequent cruises in 1966 and 1967. The (NO_3 + NO_2) results for cruise 5, 6, 8 and 10 are probably in error and have been omitted from these final Data Reports. The (NO_3 + NO_2) data for cruise 66-11 on Lake Erie include values near 0.1 mg N/L for the eastern bottom water, which is in agreement with the 1967 data. Therefore the (NO_3 + NO_2) data from cruise 66-11 are probably correct, and have been printed in Data Report No. 8. For cruise 66-12 and following cruises on Lake Ontario, the (NO_3 + NO_2) data for the 4°C water have values near 0.2 mg N/L, which is also in agreement with 1967 results. Therefore the data for cruise 66-12 and later cruises are probably correct, and are included in the final Data Reports.

Nitrite Nitrite in unfiltered samples was measured, using an Auto-Analyzer, by adding sodium hydroxide + ortho-phosphoric acid + sulfanilamide + N-(1-naphthyl) ethylenediamine dihydrochloride. The resulting color was measured at 520 millimicrons. (I.J.C. agencies 1966, pp. 102-104).

Reactive phosphate Phosphate in unfiltered samples was measured, using an Auto-Analyzer, by adding ammonium molybdate + hydrochloric acid + stannous chloride, and measuring the resulting color at 660 millimicrons. (I.J.C. agencies 1966, pp. 94-96).

Ammonia was measured during 1966 on cruises 8, 10, 11, 12, 14, 16, 17 and 18. The maximum value was .072 mg N/L. There were very many results of .000 mg N/L, except for cruise 10 for which the minimum was .020 mg N/L. There was no obvious spatial distribution of the higher values. These data have not been included in the Data Reports Nos. 1 to 12.

Phenol and related substances. The pH of the sample was adjusted to 4.0 by adding ortho-phosphoric acid, and copper sulfate was also added, immediately after sampling. Analyses were done up to one week later. The sample was distilled, and phenol in the distillate was measured by adding ammonium chloride; then, ammonium hydroxide (to produce pH 10.0 ± 0.2), 4-aminoantipyrine and potassium ferricyanide were also added. The resulting color was extracted into chloroform and measured at 460 millimicrons (American Public Health Association 1965, pp. 516-520, distillation step and method A).

Storage conditions for bacteriological samples The analyses began within one or two hours after sampling, except for samples collected between midnight and 7.30 a.m. These night-time samples were stored at 10°C for up to 8 hours before their analyses commenced.

Total 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 (American Public Health Association 1965, p. 616, Method A).

Fecal Streptococcus density determinations were obtained by membrane filtration techniques using Bacto-m Enterococcus Agar. Membranes were

incubated at 39°C for 48±3 hours (American Public Health Association 1965, p. 619).

20°C and 35°C Standard Plate Counts were made using 1 ml samples mixed with liquified (45°C) Bacto-Plate Count Agar, allowed to solidify and then incubated at 20°C for 48±3 hours or at 35°C for 24±2 hours. (American Public Health Association 1965, p. 592).

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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 R. Caldwell and the crew of the "Brandal" operated the vessel in support of the limnological program.

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CRUISE 66-12, LAKE ONTARIO

C-REF-NO 012	LAT 43-18-42N	YEAR 1966	NO. DEPTHS 07
CONS. NO 001	LON 079-12-06W	MONTH 08	SOUNDING 0086
COUNTRY 18		DAY 15	BT SLIDE NO 001
INSTITUTE 22		TIME 0958	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.09	273	9.80	8.350	1.3	2.2	83.5
3.0								
10.0		7.23	280	11.30	8.030	0.8		89.0
20.0		5.08	286	11.58	7.950	0.6		89.0
30.0		4.11	279	12.37	8.090	0.2		90.0
50.0		3.97	282	12.78	8.120	0.1		90.0
75.0		3.93	285	11.11	7.990	0.7		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.0	0.011	0.004	0.010		770E02	100E00
3.0						0.000		
10.0	132.0	25.0	0.139	0.006	0.010		500E01	
20.0	134.0	25.0	0.167	0.008	0.010		330E01	
30.0	131.0	25.0	0.189	0.011	0.005		100E01	
50.0	131.0	24.5	0.208	0.012	0.020		100E01	
75.0	132.0	25.0	0.228	0.012	0.045		220E01	000E00

DEPTH	SPC 20	SPC 35
1.0	150E03	530E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0	900E01	150E01

C-REF-NO 012	LAT 43-16-54N	YEAR 1966	NO. DEPTHS 02
CONS. NO 002	LON 079-09-00W	MONTH 08	SOUNDING 0013
COUNTRY 18		DAY 15	BT SLIDE NO 002
INSTITUTE 22		TIME 1043	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.47	282	9.36	8.460	0.7		89.0
10.0		6.64	284	11.12	8.080	0.4		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.023	0.002	0.020			
10.0	132.0	25.5	0.149	0.006	0.010			

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 012
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-19-54N
LON 079-09-09W

YEAR 1966
MONTH 08
DAY 15
TIME 1131

NO. DEPTHS 06
SOUNDING 0082
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.75	275	9.56	8.400	0.9	1.7	86.0
10.0		11.26	276	9.82	8.390	0.6		86.0
20.0		6.48	284	11.14	8.080	0.8		91.0
30.0		4.76	280	11.80	8.060	0.1		90.0
50.0		4.03	280	12.50	8.090	0.1		90.0
74.0		4.02		11.60	8.050	0.7		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.018	0.002	0.010		310E02	100E01
10.0	128.0	26.0	0.018	0.002	0.010		780E01	
20.0	131.0	25.0	0.154	0.006	0.010		300E01	
30.0	133.0	24.5	0.089	0.011	0.005		360E01	
50.0	131.0	24.5	0.203	0.012	0.005		110E01	
74.0	131.0	24.5	0.228	0.012	0.030		160E01	100E00

DEPTH	SPC 20	SPC 35
1.0	840E02	920E01
10.0		
20.0		
30.0		
50.0		
74.0	150E02	390E01

C-REF-NO 012
CONS. NO 004
COUNTRY 18
INSTITUTE 22

LAT 43-18-51N
LON 079-06-03W

YEAR 1966
MONTH 08
DAY 15
TIME 1211

NO. DEPTHS 02
SOUNDING 0012
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	21.25	278	9.70	8.370	1.2	1.4	88.0
10.0		7.16	282	10.67	8.030	0.7		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.5	0.018	0.002	0.020		620E02	140E01
10.0	131.0	25.0	0.124	0.006	0.010		270E02	

DEPTH	SPC 20	SPC 35
1.0	800E03	650E03
10.0		

C-REF-NO 012
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 43-21-12N
LON 079-05-33W

YEAR 1966
MONTH 08
DAY 15
TIME 1258

NO. DEPTHS 06
SOUNDING 0092
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	20.45	278	9.44	8.340	0.2	0.9	86.0
10.0		13.22	277	11.00	8.210	0.1		86.0
20.0		7.03	281	11.44	8.070	0.1		89.0
30.0		5.01	280	11.80	8.050	0.1		89.0
50.0		4.07	279	12.56	8.080	0.2		88.0
75.0		4.00	282	11.42	8.010	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.012	0.003	0.015		400E02	200E00
10.0	129.0	25.0	0.041	0.004	0.010		480E01	
20.0	136.0	25.0	0.124	0.006	0.010		150E01	
30.0	132.0	25.0	0.175	0.010	0.010		240E01	
50.0	130.0	24.5			0.005		110E01	
75.0	132.0	24.5	0.209	0.006	0.030		150E01	200E00

DEPTH	SPC 20	SPC 35
1.0	700E03	250E03
10.0		
20.0		
30.0		
50.0		
75.0	120E02	320E01

C-REF-NO 012
CONS. NO 006
COUNTRY 18
INSTITUTE 22

LAT 43-19-33N
LON 079-01-51W

YEAR 1966
MONTH 08
DAY 15
TIME 1418

NO. DEPTHS 04
SOUNDING 0031
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.43	270	9.86	8.390	0.7	1.8	84.0
5.0		17.58	271	10.26	8.340	0.8		84.0
15.0		11.80	276	10.19	8.170	0.5		86.0
25.0		5.81	281	10.65	8.060	0.2		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.0	0.014	0.001	0.020		250E01	000E00
5.0	127.0	25.5	0.014	0.001	0.005		380E01	
15.0	129.0	25.0	0.057	0.003	0.030		660E01	
25.0	132.0	25.0	0.116	0.009	0.010		290E01	000E00

DEPTH	SPC 20	SPC 35
1.0	490E02	430E02
5.0		
15.0		
25.0	130E02	650E01

C-REF-NO 012	LAT 43-17-21N	YEAR 1966	NO. DEPTHS 02
CONS. NO 007	LON 079-01-48W	MONTH 08	SOUNDING 0009
COUNTRY 18		DAY 15	BT SLIDE NO 007
INSTITUTE 22		TIME 1456	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	16.88	271	9.55	8.290	0.3	1.1	84.0
8.0		9.72	282	10.35	8.100	0.2		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.0	0.012	0.003	0.005		340E01	000E00
8.0	134.0	25.0	0.084	0.006	0.015		560E01	

DEPTH	SPC 20	SPC 35
1.0	114E02	590E01
8.0		

C-REF-NO 012	LAT 43-18-06N	YEAR 1966	NO. DEPTHS 02
CONS. NO 008	LON 078-58-27W	MONTH 08	SOUNDING 0012
COUNTRY 18		DAY 15	BT SLIDE NO 008
INSTITUTE 22		TIME 1529	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	19.15	272	10.29	8.310	0.5	1.5	84.0
10.0		17.05	272	10.13	8.310	0.5		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.5	0.008	0.002	0.005		390E01	200E00
10.0	128.0	25.5	0.009	0.006	0.005		320E01	

DEPTH	SPC 20	SPC 35
1.0	100E03	460E02
10.0		

C-REF-NO 012
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 43-19-24N
LON 078-54-48W

YEAR 1966
MONTH 08
DAY 15
TIME 1621

NO. DEPTHS 02
SOUNDING 0017
BT SLIDE NO 009

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.66	273	8.46	8.380	0.6	1.4	85.0
10.0		17.82	273	9.23	8.360	0.9		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	25.5	0.008	0.002	0.010		180E01	
10.0	128.0	25.5	0.013	0.002	0.020		590E01	

DEPTH	SPC 20	SPC 35
1.0	140E03	410E02
10.0		

C-REF-NO 012	LAT 43-21-12N	YEAR 1966	NO. DEPTHS 05
CONS. NO 010	LON 078-58-06W	MONTH 08	SOUNDING 0076
COUNTRY 18		DAY 15	BT SLIDE NO 010
INSTITUTE 22		TIME 1653	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.7	19.44	272	10.05	8.420	0.7	1.3	85.0
10.0		17.69	272	10.57	8.360	0.8		85.0
20.0		7.33	282	11.36	8.090	0.2		88.0
30.0		5.33	279	11.52	8.020	0.6		89.0
50.0		4.34	282	11.30	7.990	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.5	0.008	0.002	0.015		220E01	
10.0	127.0	25.5	0.008	0.002	0.025		320E01	
20.0	130.0	25.0	0.110	0.005	0.035		100E01	
30.0	131.0	25.0	0.168	0.012	0.060		100E01	
50.0	131.0	25.0	0.195	0.010	0.025		160E01	200E00

DEPTH	SPC 20	SPC 35
1.0	830E02	310E02
10.0		
20.0		
30.0		
50.0	260E01	700E00

C-REF-NO 012 LAT 43-24-03N YEAR 1966 NO. DEPTHS 07
CONS. NO 011 LON 078-58-00W MONTH 08 SOUNDING 0108
COUNTRY 18 DAY 15 BT SLIDE NO 011
INSTITUTE 22 TIME 1744

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.9	19.85	274	8.58	8.430	0.2	2.1	85.0
10.0		14.05	273	10.16	8.240	0.8	1.4	86.0
20.0		5.84	279	11.66	8.060	0.4	0.7	88.0
30.0		4.73	279	11.66	8.040	0.2	1.3	88.0
49.0		4.18	280	10.75	8.090	0.2	0.6	88.0
74.0		3.95	280	11.55	8.000	0.1	0.9	88.0
98.0		3.89	284	9.96	7.950	0.5	0.9	91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.008	0.002	0.015		460E01	
10.0	129.0	25.5	0.022	0.003	0.010		220E01	
20.0	131.0	25.5	0.155	0.010	0.015		700E00	
30.0	131.0	25.0	0.186	0.014	0.015		800E00	
49.0	131.0	25.0	0.181	0.009	0.030		400E00	
74.0	131.0	25.0	0.181	0.009	0.040		700E00	
98.0	134.0	25.0	0.208	0.007	0.065		270E01	000E00

DEPTH	SPC 20	SPC 35
1.0	900E02	470E02
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	120E02	180E01

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

LAT 43-22-42N
LON 079-01-51W

YEAR 1966
MONTH 08
DAY 15
TIME 1837

NO. DEPTHS 06
SOUNDING 0090
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	19.50	280	10.14	8.310	0.8	1.7	85.0
10.0		19.15	270	10.38	8.340	0.4		83.0
20.0		8.46	278	11.18	8.040	0.1		89.0
30.0		6.68	280	11.77	8.010	0.4		89.0
50.0		4.49	278	12.59	8.080	0.0		89.0
75.0		4.10	281	11.55	8.030	0.0		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.5	0.008	0.002	0.010		290E01	
10.0	126.0	26.0	0.007	0.003	0.005		370E01	
20.0	130.0	25.5	0.112	0.008	0.015		200E00	
30.0	132.0	25.0	0.168	0.017	0.010		400E00	
50.0	131.0	25.0	0.166	0.009	0.050		000E00	
75.0	132.0	25.0	0.183	0.002	0.040		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	600E02	230E02
10.0		
20.0		
30.0		
50.0		
75.0	350E01	100E01

C-REF-NO 012
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-22-24N
LON 079-04-30W

YEAR 1966
MONTH 08
DAY 15
TIME 1924

NO. DEPTHS 07
SOUNDING 0110
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	20.79	275	9.63	8.440	0.8	1.1	86.0
10.0		14.92	272	10.64	8.310	0.7		85.0
20.0		5.80	278	11.93	8.110	0.2		89.0
30.0		5.00	279	12.36	8.110	0.0		88.0
50.0		4.22	280	12.62	8.110	0.0		88.0
75.0		3.98	278	12.53	8.110	0.1		88.0
100.0		3.92	282	10.06	7.860	0.3		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.008	0.002	0.015		320E01	000E00
10.0	128.0	25.5	0.013	0.002	0.010		430E01	
20.0	130.0	25.0	0.186	0.004	0.005		220E01	
30.0	130.0	25.0	0.198	0.017	0.010		600E00	
50.0	130.0	25.0	0.180	0.010	0.020		500E00	
75.0	131.0	25.0	0.180	0.010	0.035		500E00	
100.0	134.0	25.0	0.215	0.005	0.060		700E00	000E00

DEPTH	SPC 20	SPC 35
1.0	280E03	118E03
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	131E02	380E01

C-REF-NO 012 LAT 43-21-36N YEAR 1966 NO. DEPTHS 06
CONS. NO 015 LON 079-12-06W MONTH 08 SOUNDING 0102
COUNTRY 18 DAY 15 BT SLIDE NO 015
INSTITUTE 22 TIME 2111

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.7	17.33	268	11.62	8.490	1.7	2.3	83.0
10.0		9.74	278	10.87	8.120	0.9		88.0
20.0		4.89	280	11.69	8.020	0.7		89.0
30.0		4.47	278	12.35	8.100	0.2		89.0
50.0		4.04	279	12.78	8.120	0.5		89.0
75.0		3.93	278	12.50	8.120	0.7		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.004	0.001	0.005		000E00	100E00
10.0	129.0	26.0	0.068	0.002	0.020		500E00	
20.0	130.0	26.0	0.167	0.008	0.010		000E00	
30.0	130.0	26.5	0.166	0.004	0.010		000E00	
50.0	130.0	26.0	0.175	0.005	0.030		100E00	
75.0	131.0	26.0	0.185	0.010	0.095		100E00	300E00

DEPTH	SPC 20	SPC 35
1.0	280E02	120E01
10.0		
20.0		
30.0		
50.0		
75.0	900E00	700E00

C-REF-NO 012 LAT 43-14-51N YEAR 1966 NO. DEPTHS 04
CONS. NO 016 LON 079-26-57W MONTH 08 SOUNDING 0040
COUNTRY 18 DAY 15 BT SLIDE NO 017
INSTITUTE 22 TIME 2310

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	19.33	267	11.24	8.530	0.8	1.8	82.0
10.0		11.75	278	9.24	8.020	0.5		87.0
20.0		6.94	281	11.24	8.080	1.1		90.0
30.0		6.22	282	10.83	8.060	0.8		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	26.5	0.009	0.001	0.010		100E00	200E00
10.0	133.0	26.0	0.013	0.002	0.015		600E00	
20.0	134.0	26.0	0.132	0.008	0.015		200E00	
30.0	135.0	25.5	0.158	0.007	0.015		000E00	300E00

DEPTH	SPC 20	SPC 35
1.0	740E01	100E01
10.0		
20.0		
30.0	320E01	500E00

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

LAT 43-19-45N
LON 079-41-12W

YEAR 1966
MONTH 08
DAY 16
TIME 0059

NO. DEPTHS 05
SOUNDING 0048
BT SLIDE NO 018

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.90	268	10.89	8.510	1.4	2.0	85.0
3.0								
10.0		14.79	278	8.78	8.090	1.3	1.3	88.0
20.0		7.95	282	9.94	7.940	0.9	1.0	90.0
30.0		5.95	281	10.75	7.980	0.6	0.8	90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.004	0.001	0.015		200E00	800E00
3.0						0.000		
10.0	133.0	26.0	0.017	0.003	0.020		120E01	
20.0	135.0	26.5	0.117	0.008	0.020		200E00	
30.0	135.0	26.0	0.158	0.012	0.020		300E00	130E02

DEPTH	SPC 20	SPC 35
1.0	800E01	100E01
3.0		
10.0		
20.0		
30.0		200E01

C-REF-NO 012 LAT 43-25-42N YEAR 1966 NO. DEPTHS 07
CONS. NO 018 LON 079-26-06W MONTH 08 SOUNDING 0108
COUNTRY 18 DAY 16 BT SLIDE NO 020
INSTITUTE 22 TIME 0320

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.52	268	10.82	8.490	1.8	2.0	83.0
10.0		7.51	279	10.86	8.010	0.4	1.2	88.0
20.0		4.66	278	12.05	8.040	0.8		89.0
30.0		4.29	279	12.52	8.070	0.4	0.8	89.0
49.0		4.04	279	12.86	8.110	0.4	0.0	89.0
74.0		3.94	279	12.78	8.120	0.2	0.4	89.0
98.0		3.85	285	10.30	7.930	0.8	0.6	92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.0	0.004	0.001	0.005		100E00	100E01
10.0	134.0	25.0	0.081	0.004	0.005		200E00	
20.0	134.0	25.0	0.163	0.007	0.005		000E00	
30.0	134.0	25.5	0.177	0.008	0.010		470E01	
49.0	135.0	25.0	0.202	0.008	0.030		100E00	
74.0	134.0	25.0	0.262	0.013	0.060		000E00	
98.0	137.0	25.0	0.243	0.007	0.060		100E00	170E01

DEPTH	SPC 20	SPC 35
1.0	480E01	800E00
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	640E01	150E01

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

LAT 43-36-00N
LON 079-25-03W

YEAR 1966
MONTH 08
DAY 16
TIME 0453

NO. DEPTHS 04
SOUNDING 0044
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.74	276	9.52	8.410	1.4		89.0
10.0		17.19	266	9.41	8.300	2.0		90.0
20.0		8.29	282	9.44	7.920	1.0		93.0
30.0		5.96	282	10.67	7.940	0.3		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	25.0	0.024	0.001	0.030			
10.0	132.0	25.0	0.073	0.002	0.070			
20.0	135.0	25.0	0.116	0.009	0.025			
30.0	135.0	24.5	0.169	0.016	0.015			

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 012
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 43-30-39N
LON 079-11-24W

YEAR 1966
MONTH 08
DAY 16
TIME 0635

NO. DEPTHS 07
SOUNDING 0135
BT SLIDE NO 023

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.86	273	9.32	8.540	1.9	0.8	90.0
10.0		11.37	276	10.16	8.180	0.9	0.7	92.0
20.0		5.01	280	11.10	8.070	0.4	0.5	93.0
30.0		4.25	277	11.93	8.090	0.3	0.6	93.0
50.0		4.05	279	11.10	8.120	0.3	0.7	93.0
75.0		3.95	278	11.65	8.130		0.3	92.0
100.0		3.87	279	11.60	8.060	0.4	0.6	91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.0	0.003	0.002	0.005		400E00	500E00
10.0	133.0	25.0	0.060	0.005	0.005		500E00	
20.0	134.0	24.5	0.218	0.022	0.030		200E00	
30.0	132.0	24.5	0.209	0.016	0.025		400E00	
50.0	134.0	24.5	0.190	0.010	0.025		600E00	
75.0	134.0	24.5	0.186	0.009	0.025		700E00	
100.0	135.0	24.0	0.187	0.008	0.025		000E00	300E00

DEPTH	SPC 20	SPC 35
1.0	173E02	830E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	190E01	500E00

C-REF-NO 012	LAT 43-41-42N	YEAR 1966	NO. DEPTHS 04
CONS. NO 021	LON 079-10-39W	MONTH 08	SOUNDING 0030
COUNTRY 18		DAY 16	BT SLIDE NO 025
INSTITUTE 22		TIME 0817	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.44	272	9.51	8.510	2.0	1.1	88.0
3.0								
10.0		17.03	275	8.62	8.230	1.7		91.0
20.0		10.84	264	8.06	8.080	0.6		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	25.0	0.002	0.003	0.005		100E01	300E00
3.0						0.000		
10.0	131.0	25.0	0.007	0.003	0.010		000E00	
20.0	135.0	25.0	0.091	0.009	0.005		000E00	

DEPTH	SPC 20	SPC 35
1.0	121E02	550E01
3.0		
10.0		
20.0		

C-REF-NO 012
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 43-36-06N
LON 078-56-57W

YEAR 1966
MONTH 08
DAY 16
TIME 1011

NO. DEPTHS 08
SOUNDING 0128
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.33	269	10.64	8.350	1.1	1.0	88.0
3.0								
10.0		15.27	273	10.19	8.340	1.6	0.8	88.0
20.0		5.50	278	11.82	8.010	0.3	0.4	93.0
29.0		4.15	280	12.47	8.130	0.2		93.0
49.0		3.99	279	12.76	8.130	0.7		93.0
73.0		3.91	278	12.94	8.150	0.6		93.0
98.0		3.82	280	12.98	8.160	1.1		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	25.0	0.003	0.002	0.010		000E00	300E00
3.0						0.001		
10.0	128.0	25.0	0.014	0.001	0.060		000E00	
20.0	133.0	25.0	0.156	0.009	0.005		000E00	
29.0	134.0	25.0	0.155	0.015	0.010		000E00	
49.0	134.0	24.5	0.176	0.014	0.010		000E00	
73.0	133.0	24.5	0.184	0.011	0.020		100E00	
98.0	134.0	24.5	0.185	0.010	0.025		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	118E02	760E01
3.0		
10.0		
20.0		
29.0		
49.0		
73.0		
98.0	270E01	170E01

C-REF-NO 012 LAT 43-47-51N YEAR 1966 NO. DEPTHS 05
CONS. NO 023 LON 078-55-45W MONTH 08 SOUNDING 0040
COUNTRY 18 DAY 16 BT SLIDE NO 028
INSTITUTE 22 TIME 1212

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	18.06	273	9.83	8.290	0.9		90.0
3.0								
10.0		15.27	279	9.43	8.130	0.9		92.0
20.0		13.50	280	9.12	8.070	0.6		92.0
30.0		8.95	281	9.44	7.970	0.8		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	25.0	0.009	0.001	0.040		100E00	390E01
3.0						0.001		
10.0	133.0	25.0	0.037	0.003	0.010		200E00	
20.0	135.0	25.0	0.055	0.005	0.010		000E00	
30.0	135.0	25.0	0.110	0.010	0.010		000E00	300E00

DEPTH	SPC 20	SPC 35
1.0	580E01	280E01
3.0		
10.0		
20.0		
30.0	590E01	360E01

C-REF-NO 012
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 43-50-15N
LON 078-40-57W

YEAR 1966
MONTH 08
DAY 16
TIME 1348

NO. DEPTHS 05
SOUNDING 0031
BT SLIDE NO 029

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	18.45	273	9.77	8.410	1.0		88.0
3.0								
10.0		17.72	274	9.72	8.330	0.9		90.0
20.0		14.32	277	9.29	8.180	0.2		91.0
25.0		9.98	280	9.00	8.030	0.4		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	25.0	0.003	0.002	0.005		000E00	500E00
3.0						0.000		
10.0	131.0	25.0	0.012	0.003	0.010		100E00	
20.0	133.0	25.0	0.055	0.005	0.010		000E00	
25.0	134.0	24.5	0.113	0.002	0.010		100E00	640E01

DEPTH	SPC 20	SPC 35
1.0	480E01	120E01
3.0		
10.0		
20.0		
25.0	230E01	200E01

C-REF-NO 012 LAT 43-41-18N YEAR 1966 NO. DEPTHS 08
CONS. NO 025 LON 078-41-12W MONTH 08 SOUNDING 0104
COUNTRY 18 DAY 16 BT SLIDE NO 031
INSTITUTE 22 TIME 1524

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	17.77	268	10.22	8.410	1.4		88.0
3.0								
9.0		16.44	270	10.08	8.380	1.0		89.0
19.0		10.09	280	10.96	8.170	1.1		91.0
28.0		4.91	278	12.30	8.040	0.2		90.0
47.0		4.07	278	12.83	8.090	0.2		91.0
70.0		3.92	278	12.97	8.120	0.2		92.0
93.0		3.81	280	12.33	8.080	0.5		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	24.5	0.004	0.001	0.010		000E00	900E00
3.0						0.001		
9.0	128.0	24.5	0.009	0.001	0.005		100E00	
19.0	132.0	24.0	0.033	0.002	0.010		000E00	
28.0	134.0	26.0	0.155	0.010	0.010		230E01	
47.0	134.0	24.0	0.162	0.008	0.055		000E00	
70.0	135.0	24.0	0.166	0.009	0.035		400E00	
93.0	135.0	24.0	0.189	0.011	0.030		730E01	230E01

DEPTH	SPC 20	SPC 35
1.0	145E02	210E01
3.0		
9.0		
19.0		
28.0		
47.0		
70.0		
93.0	100E02	400E01

C-REF-NO 012 LAT 43-29-09N YEAR 1966 NO. DEPTHS 08
CONS. NO 026 LON 078-43-00W MONTH 08 SOUNDING 0154
COUNTRY 18 DAY 16 BT SLIDE NO 033
INSTITUTE 22 TIME 1726

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	19.18	270	10.17	8.500	1.1		88.0
3.0								
10.0		11.53	275	10.38	8.170	0.9		91.0
20.0		5.20	277	12.16	8.080	0.9		92.0
30.0		4.54	278	12.49	8.090	0.4		92.0
50.0		4.03	279	12.94	8.130	0.3		92.0
75.0		3.91	277	12.90	8.130	0.2		92.0
100.0		3.86	278	12.94	8.110	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.0	0.009	0.001	0.010		600E00	300E00
3.0						0.000		
10.0	132.0	24.5	0.047	0.003	0.005		900E00	
20.0	134.0	24.5	0.158	0.012	0.005		100E00	
30.0	134.0	24.5	0.184	0.016	0.010		000E00	
50.0	134.0	24.0	0.184	0.011	0.030		100E00	
75.0	134.0	24.0	0.186	0.009	0.030		100E00	
100.0	134.0	24.0	0.182	0.008			100E00	200E00

DEPTH	SPC 20	SPC 35
1.0	190E02	470E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	410E01	140E01

C-REF-NO 012
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 43-24-30N
LON 078-29-36W

YEAR 1966
MONTH 08
DAY 16
TIME 1854

NO. DEPTHS 06
SOUNDING 0058
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	19.55	271	9.85	8.440	0.9		89.0
3.0								
10.0		19.66	271	9.80	8.450	0.9		89.0
20.0		15.17	280	10.96	8.200	0.8		92.0
30.0		5.90	281	11.34	7.900	0.2		93.0
50.0		4.78	282	11.00	7.890	0.1		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0		25.5	0.014	0.001	0.005		300E00	700E00
3.0						0.000		
10.0		25.5	0.013	0.002	0.005		100E00	
20.0		25.5	0.085	0.005	0.015		600E00	
30.0		25.0	0.160	0.010	0.025		600E00	
50.0	135.0	25.5	0.169	0.006	0.015		130E01	100E00

DEPTH	SPC 20	SPC 35
1.0	230E02	130E02
3.0		
10.0		
20.0		
30.0		
50.0	240E01	800E00

C-REF-NO 012 LAT 43-34-21N YEAR 1966 NO. DEPTHS 09
CONS. NO 028 LON 078-27-54W MONTH 08 SOUNDING 0181
COUNTRY 18 DAY 16 BT SLIDE NO 036
INSTITUTE 22 TIME 2048

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.53	269	10.26	8.350	1.2		89.0
3.0								
10.0		16.59	259	10.11	8.330	1.1		88.0
20.0		6.02	268	11.76	8.100	0.4		92.0
30.0		4.69	268	12.54	8.120	0.5		92.0
50.0		3.97	268	12.90	8.120	0.5		92.0
75.0		3.91	279	12.96	8.160	0.2		92.0
100.0		3.85	278	12.87	8.110	0.3		92.0
150.0		3.76	280	12.34	8.070	0.2		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0	0.014	0.001	0.015		000E00	200E00
3.0						0.002		
10.0	132.0	25.5	0.018	0.002	0.005		200E00	
20.0	134.0	26.0	0.148	0.017	0.005		000E00	
30.0	134.0	26.0	0.164	0.016	0.015		000E00	
50.0	134.0	26.0	0.150	0.010	0.035		100E00	
75.0	134.0	26.5	0.150	0.010	0.025		100E00	
100.0	134.0	26.0	0.152	0.013	0.025		200E00	
150.0	135.0	26.0	0.159	0.011	0.030		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	240E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	370E01	500E00

C-REF-NO 012
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-46-36N
LON 078-27-12W

YEAR 1966
MONTH 08
DAY 16
TIME 2249

NO. DEPTHS 06
SOUNDING 0073
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.1	18.84	269	10.19	8.500	1.4		88.0
3.0								
10.0		17.03	272	9.72	8.430	1.4		89.0
20.0		7.40	279	11.29	8.100	0.3		92.0
30.0		5.08	280	11.70	8.070	0.2		92.0
50.0		4.37	281	11.76	8.060	0.3		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	26.0	0.004	0.001	0.005		100E00	200E00
3.0						0.000		
10.0	134.0	26.5	0.003	0.002	0.015		300E00	
20.0	134.0	26.0	0.072	0.008	0.015		000E00	
30.0	135.0	26.0	0.146	0.014	0.005		000E00	
50.0	134.0	26.0	0.209	0.006	0.020		100E00	100E00

DEPTH	SPC 20	SPC 35
1.0	100E02	100E01
3.0		
10.0		
20.0		
30.0		
50.0	800E01	400E00

C-REF-NO 012 LAT 43-51-39N YEAR 1966 NO. DEPTHS 04
CONS. NO 030 LON 070-11-39W MONTH 08 SOUNDING 0051
COUNTRY 18 DAY 17 BT SLIDE NO 039
INSTITUTE 22 TIME 0036

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.30	275	10.02	8.410	0.9		88.0
10.0		16.24	276	9.34	8.230	0.3		89.0
20.0		6.27	281	10.41	7.910	0.3		92.0
30.0		5.47	283	10.95	7.950	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	26.0	0.023	0.002	0.005		000E00	000E00
10.0	133.0	26.5	0.045	0.005	0.005		800E00	
20.0	134.0	26.5	0.146	0.004	0.015		000E00	
30.0	135.0	26.5	0.148	0.002	0.015		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	620E01	600E00
10.0		
20.0		
30.0	700E01	120E01

C-REF-NO 012 LAT 43-39-27N YEAR 1966 NO. DEPTHS 09
CONS. NO 031 LCN 078-13-42W MONTH 08 SOUNDING 0155
COUNTRY 18 DAY 17 BT SLIDE NO 041
INSTITUTE 22 TIME 0240

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.47	268	9.88	8.360	0.9		87.0
3.0								
10.0		18.49	267	9.86	8.370	0.7		87.0
19.0		11.20	275	10.62	8.150	0.5		90.0
29.0		4.87	278	12.64	8.070	0.4		92.0
48.0		3.95	279	13.03	8.090	0.2		92.0
73.0		3.88	280	13.08	8.120	0.2		91.0
97.0		3.87	280	13.01	8.120	0.2		91.0
146.0		3.83	281	12.04	8.040			91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.5	0.009	0.001	0.005		000E00	000E00
3.0						0.000		
10.0	130.0	26.0	0.017	0.003	0.005		100E00	
19.0	133.0	26.0	0.061	0.009	0.005		000E00	
29.0	134.0	25.5	0.162	0.018	0.015		200E00	
48.0	135.0	26.0	0.154	0.011	0.030		000E00	
73.0	135.0	25.5	0.154	0.011	0.045		000E00	
97.0	133.0	26.0	0.161	0.009	0.020		000E00	
146.0	134.0	26.0	0.155	0.010	0.095			700E00

DEPTH	SPC 20	SPC 35
1.0	930EC1	300E00
3.0		
10.0		
19.0		
29.0		
48.0		
73.0		
97.0		
146.0	300E02	650E01

C-REF-NO 012 LAT 43-27-30N YEAR 1966 NO. DEPTHS 08
CONS. NO 032 LCN 078-14-03W MONTH 08 SOUNDING 0137
COUNTRY 18 DAY 17 BT SLIDE NO 043
INSTITUTE 22 TIME 0435

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.81	272	8.09	8.430	1.1		88.0
3.0								
10.0		18.79	271	8.44	8.480	0.7		89.0
19.0		9.68	276	9.97	8.090	0.8		92.0
29.0		5.27	279	9.80	8.080	0.6		93.0
48.0		4.19	278	11.23	8.100	0.3		93.0
72.0		3.92	278	11.42	8.080	0.3		93.0
96.0		3.85	279	10.66	8.090	0.3		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.009	0.001	0.020		100E00	000E00
3.0						0.001		
10.0	131.0	26.0	0.008	0.002	0.015		200E00	
19.0	133.0	25.5	0.127	0.008	0.005		000E00	
29.0	134.0	26.0	0.127	0.008	0.090		200E00	
48.0	134.0	25.5	0.151	0.009	0.020		100E00	
72.0	134.0	25.5	0.151	0.009	0.210		100E00	
96.0	136.0	25.5	0.154	0.006	0.040		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	630E01	700E00
3.0		
10.0		
19.0		
29.0		
48.0		
72.0		
96.0	160E01	600E00

C-REF-NO 012
CONS. NO 033
COUNTRY 18
INSTITUTE 22

LAT 43-24-30N
LON 078-00-12W

YEAR 1966
MONTH 08
DAY 17
TIME 0609

NO. DEPTHS 06
SOUNDING 0064
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.96	270	12.54	8.440	0.6		88.0
3.0								
10.0		18.82	272	9.63	8.430	1.0		89.0
19.0		18.90	279	11.04	8.070	0.7		92.0
29.0			277	9.69	8.000	0.8		93.0
48.0			279	10.25	7.990	0.8		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5	0.008	0.002	0.025		100E00	200E00
3.0						0.001		
10.0	131.0	26.5	0.007	0.003	0.040		000E00	
19.0	134.0	26.0	0.126	0.004	0.045		300E00	
29.0	136.0	26.0	0.145	0.005	0.040		500E00	
48.0	133.0	26.0	0.158	0.002	0.045		200E00	200E00

DEPTH	SPC 20	SPC 35
1.0	143E02	350E01
3.0		
10.0		
19.0		
29.0		
48.0	920E01	120E01

C-REF-NO 012 LAT 43-33-12N YEAR 1966 NO. DEPTHS 09
CONS. NO 034 LON 077-59-54W MONTH 08 SOUNDING 0183
COUNTRY 18 DAY 17 BT SLIDE NO 046
INSTITUTE 22 TIME 0807

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.09	270	8.98	8.400	0.4		88.0
3.0								
9.0		19.11	269	9.62	8.390	0.4		88.0
17.0		7.03	278	11.69	8.100	0.2		92.0
26.0		4.96	278	12.31	8.070	0.2		92.0
43.0		4.34	279	12.84	8.110	0.4		92.0
65.0		4.08	279	12.84	8.110	0.5		92.0
87.0		3.91	278	13.00	8.080	0.2		92.0
130.0		3.82	279	12.97	8.090	0.6		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0	0.009	0.001	0.005		200E00	120E01
3.0						0.003		
9.0	131.0	26.0	0.008	0.002	0.110		000E00	
17.0	134.0	26.0	0.150	0.020	0.040		000E00	
26.0	132.0	26.0	0.168	0.017	0.055		300E00	
43.0	135.0	25.5			0.040		100E00	
65.0	134.0	26.0	0.172	0.008	0.050		000E00	
87.0	136.0	25.5	0.169	0.006	0.050		100E00	
130.0	135.0	25.5	0.160	0.005	0.025		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	340E02	630E01
3.0		
9.0		
17.0		
26.0		
43.0		
65.0		
87.0		
130.0	570E01	600E00

C-REF-NO 012
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 43-45-18N
LON 077-58-48W

YEAR 1966
MONTH 08
DAY 17
TIME 1054

NO. DEPTHS 08
SOUNDING 0117
BT SLIDE NO 048

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	18.37	273	9.26	8.400	1.1		89.0
3.0								
10.0		18.35	274	9.54	8.350	0.7		89.0
20.0		8.34	278	10.70	8.050	0.3		92.0
30.0		4.70	281	12.07	7.990	0.3		93.0
49.0		4.25	280	12.58	8.040	0.2		94.0
74.0		3.99	281	12.64	8.050	0.3		94.0
98.0		3.98	282	11.85	8.000	0.2		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	26.0	0.012	0.003	0.115		200E00	000E00
3.0						0.000		
10.0	132.0	26.0	0.012	0.003	0.010		000E00	
20.0	134.0	26.0	0.095	0.015	0.030		000E00	
30.0	136.0	26.0	0.164	0.016	0.015		000E00	
49.0	136.0	26.0	0.160	0.005	0.020		000E00	
74.0	135.0	26.0	0.166	0.009	0.035		000E00	
98.0	136.0	26.0	0.165	0.005	0.040		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	680E01	430E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	120E01	400E00

C-REF-NO 012
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 43-56-00N
LON 077-57-27W

YEAR 1966
MONTH 08
DAY 17
TIME 1243

NO. DEPTHS 04
SOUNDING 0038
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	17.92	274	12.36	8.310	0.8		90.0
10.0		16.02	275	9.05	8.240	0.8		90.0
20.0		9.41	281	9.30	8.020	0.4		93.0
30.0		8.10	281	9.74	7.980	0.2		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	26.0	0.024	0.001	0.005		000E00	000E00
10.0	133.0	26.0	0.043	0.002	0.050		000E00	
20.0	135.0	26.0	0.113	0.002	0.045		000E00	
30.0	135.0	26.0	0.124	0.001	0.040		000E00	800E00

DEPTH	SPC 20	SPC 35
1.0	240E01	160E01
10.0		
20.0		
30.0	580E01	220E01

C-REF-NO 012
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-50-30N
LON 077-42-57W

YEAR 1966
MONTH 08
DAY 17
TIME 1416

NO. DEPTHS 06
SOUNDING 0070
BT SLIDE NO 051

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	18.76	272	9.22	8.350	0.7		89.0
3.0								
10.0		8.06	281	9.78	8.080	0.4		92.0
20.0		6.23	282	10.77	8.020	0.2		93.0
30.0		5.58	281	11.21	8.020	0.2		93.0
50.0		4.48	282	12.12	8.050	0.4		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0	0.007	0.003	0.010		000E00	000E00
3.0						0.001		
10.0	136.0	26.0	0.107	0.003	0.110		130E01	
20.0	136.0	26.0	0.137	0.003	0.115		100E00	
30.0	136.0	26.5	0.142	0.003	0.120		000E00	
50.0	136.0	26.0	0.147	0.003			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	390E01	190E01
3.0		
10.0		
20.0		
30.0		
50.0	360E01	500E00

C-REF-NO 012 LAT 43-38-18N YEAR 1966 NO. DEPTHS 09
CONS. NO 038 LON 077-44-51W MONTH 08 SOUNDING 0167
COUNTRY 18 DAY 17 BT SLIDE NO 053
INSTITUTE 22 TIME 1612

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.96	269		8.330	0.7		88.0
3.0								
10.0		18.95	271	9.33	8.360	0.7		
20.0		8.70	277	10.74	8.060	0.4		92.0
29.0		5.37	278	12.12	8.050	0.2		80.0
49.0		4.18	280	12.26	8.080	0.3		92.0
73.0		3.97	280	12.94	8.090	0.2		92.0
98.0		3.88	279		8.090	0.7		92.0
147.0		3.82	281	11.97	8.010	0.6		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5	0.009	0.001	0.015		000E00	100E00
3.0						0.002		
10.0							400E00	
20.0	135.0	26.0	0.094	0.006	0.020		100E00	
29.0	123.0	26.0	0.120	0.005	0.040		000E00	
49.0	132.0	26.0	0.159	0.006	0.045		000E00	
73.0	138.0	25.0	0.164	0.006	0.050		100E00	
98.0	135.0	25.5	0.165	0.005	0.035		000E00	
147.0	134.0	25.5	0.178	0.007	0.055		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	103E02	530E01
3.0		
10.0		
20.0		
29.0		
49.0		
73.0		
98.0		
147.0	340E01	150E01

C-REF-NO 012
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-26-24N
LON 077-46-12W

YEAR 1966
MONTH 08
DAY 17
TIME 1810

NO. DEPTHS 07
SOUNDING 0126
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.84	270	9.48	8.370	1.0		87.0
10.0		18.77	270	9.40	8.320	0.9		88.0
20.0		18.24	272	9.34	8.310	0.8		88.0
30.0		8.07	278	10.93	8.060	0.3		92.0
50.0		4.53	278	12.55	8.100	0.2		92.0
74.0		3.92	280	12.81	8.110	0.2		92.0
99.0		3.83	278	12.72	8.100	0.4		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.009	0.001	0.620		000E00	000E00
10.0	130.0	26.0	0.009	0.001	0.160		000E00	
20.0	131.0	26.0	0.013	0.002	0.060		000E00	
30.0	133.0	25.5	0.111	0.009	0.075		000E00	
50.0	134.0	25.5	0.169	0.011	0.020		000E00	
74.0	135.0	25.5	0.160	0.005	0.030		000E00	
99.0	134.0	25.5	0.165	0.005	0.040		300E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E02	300E01
10.0		
20.0		
30.0		
50.0		
74.0		
99.0	620E01	410E01

C-REF-NO 012 LAT 43-19-48N YEAR 1966 NO. DEPTHS 04
CONS. NO 040 LON 077-31-54W MONTH 08 SOUNDING 0054
COUNTRY 18 DAY 17 BT SLIDE NO 056
INSTITUTE 22 TIME 1950

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.3	19.95	273	9.24	8.370	0.8		88.0
10.0		19.85	271	9.21	8.390	0.6		88.0
20.0		19.66	270	9.09	8.370	0.9		88.0
30.0			270	9.09		1.1		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.5	0.004	0.001			100E00	50?E00
10.0	130.0	26.5	0.008	0.002			200E00	
20.0	130.0	26.0	0.013	0.002			100E00	
30.0	130.0	26.5	0.012	0.003			160E01	100E00

DEPTH	SPC 20	SPC 35
1.0	300E01	900E00
10.0		
20.0		
30.0	130E02	730E01

C-REF-NO 012 LAT 43-31-51N YEAR 1966 NO. DEPTHS 08
CONS. NO 041 LON 077-30-45W MONTH 08 SOUNDING 0174
COUNTRY 18 DAY 17 BT SLIDE NO 058
INSTITUTE 22 TIME 2205

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.1	19.66	268	9.46	8.460	1.1		87.0
9.0		19.66	268	9.41	8.440	0.6		87.0
17.0		19.56	268	9.32	8.440	0.6		87.0
26.0		15.18	272	9.76	8.300	0.5		89.0
43.0		5.68	278	12.14	8.140	0.1		92.0
65.0		4.36	279	12.64	8.060	0.8		92.0
87.0		3.94	279	12.72	8.080	0.6		92.0
130.0		3.83	278	12.78	8.110	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.5	0.008	0.002	0.010		500E00	460E01
9.0	127.0	26.0	0.008	0.002	0.005		000E00	
17.0	127.0	26.0	0.017	0.003	0.005		000E00	
26.0	130.0	26.0	0.052	0.008	0.005		000E00	
43.0	134.0	26.0	0.213	0.027	0.010		000E00	
65.0	134.0	26.0	0.196	0.009	0.020		000E00	
87.0	134.0	26.0	0.198	0.007	0.020		100E00	
130.0	134.0	26.0	0.194	0.006	0.030		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	700E01	100E00
9.0		
17.0		
26.0		
43.0		
65.0		
87.0		
130.0	130E02	300E00

C-REF-NO 012
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 43-43-30N
LON 077-30-24W

YEAR 1966
MONTH 08
DAY 17
TIME 2351

NO. DEPTHS 06
SOUNDING 0082
BT SLIDE NO 060

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.5	19.47	270	9.23	8.370	0.7		88.0
10.0		19.51	271	9.24	8.430	0.6		88.0
19.0		12.03	273	9.72	8.130	0.1		89.0
29.0		5.73	283	11.51	8.070	0.3		92.0
48.0		4.61	282	12.05	8.080	0.3		92.0
72.0		4.49	272	11.71	8.070	0.1		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.5	0.016	0.004	0.005		000E00	000E00
10.0	129.0	26.5	0.015	0.005	0.005		100E00	
19.0	131.0	26.5	0.108	0.032	0.005		100E00	
29.0	134.0	26.0	0.162	0.003	0.010		000E00	
48.0	134.0	26.0	0.187	0.003	0.015		000E00	
72.0	136.0	26.5	0.197	0.003	0.025		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	380E01	400E00
10.0		
19.0		
29.0		
48.0		
72.0	320E01	700E00

C-REF-NO 012
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-47-54N
LON 077-15-00W

YEAR 1966
MONTH 08
DAY 18
TIME 0128

NO. DEPTHS 05
SOUNDING 0038
BT SLIDE NO 061

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.87	273	9.15	8.420	0.5		88.0
3.0								
10.0		19.45	283	9.17	8.440	0.5		88.0
20.0		8.51	281	9.07	8.060	0.4		92.0
30.0		5.68	283	11.10	8.060	0.6		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.013	0.002	0.015		000E00	000E00
3.0						0.000		
10.0	129.0	26.5	0.018	0.002	0.005		400E00	
20.0	133.0	26.0	0.158	0.002	0.010		000E00	
30.0	134.0	26.0	0.177	0.003	0.015		700E00	000E00

DEPTH	SPC 20	SPC 35
1.0	370E01	280E01
3.0		
10.0		
20.0		
30.0	280E01	140E01

C-REF-NO 012 LAT 43-37-00N YEAR 1966 NO. DEPTHS 07
CONS. NO 044 LON 077-15-42W MONTH 08 SOUNDING 0139
COUNTRY 18 DAY 18 BT SLIDE NO 063
INSTITUTE 22 TIME 0312

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.75	271	9.21	8.420	1.0		87.0
10.0		19.77	270	9.18	8.370	1.0		87.0
20.0		17.05	273	9.10	8.300	0.3		87.0
30.0		5.34	270	12.14	8.100	0.1		91.0
50.0		4.40	279	12.62	8.110	0.2		91.0
75.0		4.09	280	12.75	8.100	0.2		91.0
99.0		3.94	280	12.64	8.090	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.0	0.007	0.003	0.005		000E00	000E00
10.0	129.0	26.0	0.012	0.003	0.005		200E00	
20.0	130.0	26.0	0.041	0.014	0.005		000E00	
30.0	134.0	26.0	0.172	0.003	0.015		100E00	
50.0	134.0	26.0	0.190	0.010	0.015		100E00	
75.0	132.0	26.0	0.188	0.007	0.010		000E00	
99.0	133.0	26.0	0.185	0.005	0.030		100E00	230E01

DEPTH	SPC 20	SPC 35
1.0		200E01
10.0		
20.0		
30.0		
50.0		
75.0		
99.0		800E00

C-REF-NO 012
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-24-51N
LON 077-17-45W

YEAR 1966
MONTH 08
DAY 18
TIME 0503

NO. DEPTHS 09
SOUNDING 0212
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.75	270	9.24	8.370	0.5		87.0
10.0		19.78	271	9.21	8.430	0.6		87.0
20.0		19.49	270	9.00	8.400	0.5		88.0
30.0		8.20	276	11.24	8.100	0.2		
50.0		4.79	280	12.47	8.100	0.5		93.0
75.0		3.96	280	12.73	8.110	0.2		92.0
100.0		3.93	280	12.75	8.090	0.2		93.0
150.0		3.84	280	12.83	8.110	0.2		93.0
200.0		3.73	280	12.24	8.060	0.2		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.0	0.003	0.002	0.005		000E00	000E00
10.0	128.0	25.0	0.003	0.002	0.010		000E00	
20.0	129.0	25.0	0.007	0.003	0.030		000E00	
30.0	133.0	25.0	0.138	0.027	0.020		100E00	
50.0	133.0	25.0	0.191	0.019	0.015		000E00	
75.0	134.0	25.0	0.195	0.005	0.035		000E00	
100.0	134.0	25.0	0.195	0.005	0.020		000E00	
150.0	134.0	25.0	0.191	0.004	0.020		100E00	
200.0	134.0	25.0	0.200	0.005	0.025		000E00	200E00

DEPTH	SPC 20	SPC 35
1.0		170E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0		
200.0		200E01

C-REF-NO 012 LAT 43-18-51N YEAR 1966 NO. DEPTHS 04
CONS. NO 046 LON 077-03-30W MONTH 08 SOUNDING 0042
COUNTRY 18 DAY 18 BT SLIDE NO 066
INSTITUTE 22 TIME 0651

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.45	266	7.89	8.390	0.7		87.0
10.0		20.48	269	8.99	8.410	0.6		87.0
20.0		20.47	270	9.57	8.380	0.4		87.0
30.0		20.22	269	8.95	8.420	0.4		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	25.5	0.003	0.002	0.005		400E00	000E00
10.0	128.0	25.5	0.003	0.002	0.005		900E00	
20.0	128.0	25.5	0.003	0.002	0.035		500E00	
30.0	128.0	25.5	0.007	0.003	0.005		600E00	000E00

DEPTH	SPC 20	SPC 35
1.0		240E01
10.0		
20.0		
30.0		670E01

C-REF-NO 012
CONS. NO 047
COUNTRY 18
INSTITUTE 22

LAT 43-30-15N
LON 077-03-36W

YEAR 1966
MONTH 08
DAY 18
TIME 0853

NO. DEPTHS 09
SOUNDING 0230
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.47	272	8.78	8.440	0.6		88.0
10.0		19.50	272	8.91	8.460	0.6		88.0
20.0		19.48	273	9.30	8.450	0.5		89.0
30.0		16.08	273	9.41	8.310	0.3		90.0
50.0		5.01	279	11.78	8.110	0.2		92.0
75.0		4.22	279	12.65	8.110	0.1		92.0
100.0		3.94	278	11.95	8.130	0.1		92.0
150.0		3.83	279	12.85	8.120	0.2		92.0
200.0		3.75	282	12.45	8.100	0.5		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	25.0	0.011	0.004	0.005		000E00	000E00
10.0	129.0	25.0	0.020	0.005	0.005		200E00	
20.0	130.0	25.5	0.021	0.004	0.005		000E00	
30.0	130.0	25.5	0.058	0.017	0.010		000E00	
50.0	133.0	25.0	0.214	0.026	0.015		000E00	
75.0	133.0	25.0	0.201	0.009	0.025		000E00	
100.0	133.0	25.0	0.198	0.007	0.020		100E00	
150.0	133.0	25.0	0.191	0.004	0.020		100E00	
200.0	138.0	25.0	0.190	0.005	0.035		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0		110E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0		
200.0		130E01

C-REF-NO 012
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 43-42-36N
LON 077-01-48W

YEAR 1966
MONTH 08
DAY 18
TIME 1058

NO. DEPTHS 06
SOUNDING 0101
BT SLIDE NO 070

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.47	271	9.27	8.360	0.2		87.0
10.0		20.50	269	8.18	8.400	0.4		87.0
20.0		8.32	280	9.96	7.960	0.2		91.0
30.0		6.07	280	11.44	8.000	0.2		92.0
50.0		4.65	280	12.06	8.020	0.4		92.0
75.0		4.33	281	11.83	8.020	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.5	0.008	0.002	0.005		120E01	000E00
10.0	129.0	25.5	0.013	0.002	0.005		100E00	
20.0	134.0	25.5	0.148	0.002	0.010		000E00	
30.0	133.0	25.0	0.160	0.005	0.010		100E00	
50.0	134.0	25.0	0.183	0.002	0.020		000E00	
75.0	135.0	25.0	0.188	0.002	0.015		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0		400E00
10.0		
20.0		
30.0		
50.0		
75.0		140E01

C-REF-NO 012 LAT 43-51-27N YEAR 1966 NO. DEPTHS 03
CONS. NO 049 LON 076-58-42W MONTH 08 SOUNDING 0035
COUNTRY 18 DAY 18 BT SLIDE NO 072
INSTITUTE 22 TIME 1510

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.19	273	9.10	8.230	0.1		88.0
10.0		18.94	274	8.71	8.240	0.2		89.0
20.0		9.57	282	8.17	7.870	0.4		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.037	0.003	0.005		000E00	
10.0	130.0	25.5	0.037	0.003	0.010		300E00	
20.0	136.0	25.0	0.182	0.003	0.030			

DEPTH	SPC 20	SPC 35
1.0		140E01
10.0		
20.0		

C-REF-NO 012 LAT 43-47-36N YEAR 1966 NO. DEPTHS 05
CONS. NO 050 LON 076-47-09W MONTH 08 SOUNDING 0072
COUNTRY 18 DAY 18 BT SLIDE NO 073
INSTITUTE 22 TIME 1623

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	20.99	269	9.80	8.480	0.2		86.0
10.0		21.08	270	8.32	8.470	0.5		86.0
20.0		13.93	277	10.00	8.100	0.4		91.0
30.0		6.08	284	10.97	7.980	0.7		92.0
50.0		4.90	283	10.02	7.940	0.3		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.003	0.002	0.005		000E00	100E00
10.0	128.0	26.0	0.002	0.003	0.005		100E00	
20.0	132.0	25.5	0.116	0.009	0.015		000E00	
30.0	135.0	25.5	0.183	0.002	0.015		200E00	
50.0	135.0	25.5	0.198	0.002	0.035		100E01	100E00

DEPTH	SPC 20	SPC 35
1.0		150E01
10.0		
20.0		
30.0		
50.0		160E01

C-REF-NO 012
CONS. NO 051
COUNTRY 18
INSTITUTE 22

LAT 43-35-30N
LON 076-47-30W

YEAR 1966
MONTH 08
DAY 18
TIME 1829

NO. DEPTHS 08
SOUNDING 0188
BT SLIDE NO 075

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	21.37	269	9.94	8.450	0.5		86.0
10.0		20.74	270	9.60	8.450	0.2		86.0
20.0		15.14	274	9.16	8.200	0.1		89.0
30.0		5.17	279	11.82	8.020			91.0
50.0		4.10	279	12.45	8.080	0.0		91.0
75.0		3.95	277	12.53	8.080	0.2		92.0
100.0		3.89	280	11.72	8.090	0.2		92.0
150.0		3.78	280	11.73	8.070	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.0	0.004	0.001	0.005		000E00	100E00
10.0	129.0	26.0	0.003	0.002	0.005		300E00	
20.0	131.0	25.5	0.034	0.006	0.005		400E00	
30.0	134.0	25.0	0.215	0.030	0.015		000E00	
50.0	133.0	25.0	0.196	0.004	0.070		100E00	
75.0	133.0	25.0	0.191	0.004	0.025		000E00	
100.0	133.0	25.0	0.197	0.003	0.020		000E00	
150.0	133.0	25.0	0.187	0.003	0.065		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0		700E00
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	160E01	900E00

C-REF-NO 012
CONS. NO 052
COUNTRY 18
INSTITUTE 22

LAT 43-23-18N
LON 076-49-00W

YEAR 1966
MONTH 08
DAY 18
TIME 2028

NO. DEPTHS 05
SOUNDING 0070
BT SLIDE NO 077

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.69	269	8.60	8.450	0.2		86.0
10.0		20.40	271	8.60	8.420	0.3		86.0
20.0		20.34	271	8.59	8.390	0.6		87.0
30.0		20.10	270	8.56	8.370	0.3		87.0
50.0		4.66	281	11.36	8.020	0.1		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.0	0.003	0.002	0.065		000E00	000E00
10.0	128.0	26.0	0.003	0.002	0.100		400E00	
20.0	128.0	26.0	0.003	0.002	0.015		230E01	
30.0	129.0	26.0	0.012	0.003	0.065		700E00	
50.0	134.0	25.5	0.215	0.015	0.075		300E00	100E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		200E01

C-REF-NO 012
CONS. NO 053
COUNTRY 18
INSTITUTE 22

LAT 43-30-06N
LON 076-34-51W

YEAR 1966
MONTH 08
DAY 18
TIME 2203

NO. DEPTHS 05
SOUNDING 0066
BT SLIDE NO 078

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	22.06	269	9.72	8.480	0.2		86.0
10.0		20.51	271	8.25	8.450	0.3		86.0
20.0		20.24	270	8.79	8.400	0.2		86.0
30.0		20.19	271	11.67	8.300	0.2		86.0
50.0		4.38	280	8.79	8.050	0.1		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	25.5	0.003	0.002	0.015		300E00	000E00
10.0	127.0	26.0	0.008	0.002	0.015		200E00	
20.0	126.0	26.0	0.008	0.002	0.015		100E00	
30.0	126.0	26.0	0.008	0.002	0.020		100E00	
50.0	133.0	25.5	0.189	0.011	0.025		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0		120E01
10.0		
20.0		
30.0		
50.0		160E01

C-REF-NO 012 LAT 43-34-06N YEAR 1966 NO. DEPTHS 04
CONS. NO 054 LON 076-19-54W MONTH 08 SOUNDING 0035
COUNTRY 18 DAY 18 BT SLIDE NO 079
INSTITUTE 22 TIME 2331

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.4	21.64	274	9.83	8.470	0.2		86.0
10.0		20.97	274	8.37	8.480	0.4		86.0
20.0		20.88	275	8.85	8.460	0.4		86.0
30.0		20.88	274	8.65	8.430	0.2		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.0	0.004	0.001	0.010		300E00	00 E00
10.0	127.0	27.5	0.004	0.001	0.010		000E00	
20.0	127.0	27.5	0.004	0.001	0.010		100E00	
30.0	127.0	27.5	0.004	0.001	0.010		200E00	

DEPTH	SPC 20	SPC 35
1.0	720E01	220E01
10.0		
20.0		
30.0		

C-REF-NO 012
CONS. NO 055
COUNTRY 18
INSTITUTE 22

LAT 43-40-45N
LON 076-32-57W

YEAR 1966
MONTH 08
DAY 19
TIME 0122

NO. DEPTHS 07
SOUNDING 0113
BT SLIDE NO 081

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.26	270	9.54	8.580	0.3		85.0
10.0		21.01	270	9.30	8.520	0.3		86.0
20.0		20.80	271	8.18	8.480	0.2		86.0
30.0		6.09	277	11.51	8.080	0.2		91.0
50.0		4.40	278	12.49	8.140	0.2		91.0
74.0		4.03	278	12.68	8.130	0.2		91.0
99.0		3.89	282	11.73	8.030	0.4		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.0	25.0	0.004	0.001	0.005		000E00	000E00
10.0	126.0	25.0	0.004	0.001	0.015		300E00	000E00
20.0	127.0	25.5	0.003	0.002	0.015		000E00	
30.0	130.0	25.5	0.160	0.020	0.010		000E00	
50.0	131.0	25.0	0.159	0.001	0.015		100E00	
74.0	131.0	25.5	0.163	0.002	0.020		100E00	
99.0	132.0	25.5	0.173	0.002	0.025		000E00	470E01

DEPTH	SPC 20	SPC 35
1.0	340E01	190E01
10.0	230E01	900E00
20.0		
30.0		
50.0		
74.0		
99.0	220E01	130E01

C-REF-NO 012	LAT 43-51-48N	YEAR 1966	NO. DEPTHS 03
CONS. NO 056	LON 076-31-54W	MONTH 08	SOUNDING 0028
COUNTRY 18		DAY 19	BT SLIDE NO 083
INSTITUTE 22		TIME 0251	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.44	271	9.40				88.0
10.0		21.23	272	8.81				88.0
20.0		19.60	272	8.71				90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.0	0.004	0.001	0.010		110E01	200E00
10.0	127.0	26.5	0.003	0.002	0.010		200E01	
20.0	128.0	26.5	0.030	0.005	0.015		600E00	

DEPTH	SPC 20	SPC 35
1.0	510E02	170E01
10.0		
20.0		

C-REF-NO 012	LAT 43-46-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 057	LON 076-18-27W	MONTH 08	SOUNDING 0034
COUNTRY 18		DAY 19	BT SLIDE NO 084
INSTITUTE 22		TIME 0425	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.43	270	9.72				88.0
10.0		20.96	270	9.07				89.0
20.0		20.81	271	9.58				90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.5	0.004	0.001	0.005		100E01	100E00
10.0	127.0	26.5	0.009	0.001	0.005		130E01	
20.0	127.0	26.5	0.008	0.002	0.010		770E01	

DEPTH	SPC 20	SPC 35
1.0	650E02	380E01
10.0		
20.0		

C-REF-NO 012
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 43-52-21N
LON 076-19-12W

YEAR 1966
MONTH 08
DAY 19
TIME 0518

NO. DEPTHS 03
SOUNDING 0026
BT SLIDE NO 085

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.55	272	8.62				89.0
10.0		21.48	272	8.40				89.0
20.0		21.39	272	8.20				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.0	0.009	0.001	0.010		190E01	000E00
10.0	127.0	27.5	0.009	0.001	0.015		400E00	
20.0	129.0	27.5	0.008	0.002	0.010		700E00	

DEPTH	SPC 20	SPC 35
1.0	180E02	290E01
10.0		
20.0		

C-REF-NO 012 LAT 43-52-00N YEAR 1966 NO. DEPTHS 05
CONS. NO 059 LON 076-17-51W MONTH 08 SOUNDING 0039
COUNTRY 18 DAY 19 BT SLIDE NO 086
INSTITUTE 22 TIME 0549

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.97	272	8.87				89.0
3.0								
10.0		21.84	271	8.67				89.0
20.0		21.65	271	8.48				90.0
30.0		21.43	272	8.28				90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.5	0.003	0.002	0.010		250E01	000E00
3.0						0.001		
10.0	126.0	27.5	0.003	0.002	0.010		200E00	
20.0	127.0	27.5	0.004	0.001	0.010		300E00	
30.0	127.0	27.0	0.004	0.001	0.010		520E01	000E00

DEPTH	SPC 20	SPC 35
1.0	440E02	230E01
3.0		
10.0		
20.0		
30.0	160E02	320E01

C-REF-NO 012
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 43-54-15N
LON 076-14-06W

YEAR 1966
MONTH 08
DAY 19
TIME 0641

NO. DEPTHS 02
SOUNDING 0019
BT SLIDE NO 087

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.97	271	8.56				88.0
10.0		21.96	272	8.79				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.5	0.004	0.001	0.010		600E00	350E01
10.0	127.0	27.5	0.008	0.002	0.025		700E00	

DEPTH	SPC 20	SPC 35
1.0	280E02	780E01
10.0		

C-REF-NO 012	LAT 43-57-51N	YEAR 1966	NO. DEPTHS 02
CONS. NO 061	LON 076-07-15W	MONTH 08	SOUNDING 0010
COUNTRY 18		DAY 19	BT SLIDE NO 088
INSTITUTE 22		TIME 0743	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.57		5.52				63.0
10.0		22.61		5.84				64.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	118.0	17.0	0.022	0.003	0.110			400E00
10.0	120.0	17.0	0.022	0.003	0.130			

DEPTH	SPC 20	SPC 35
1.0	300E03	290E03
10.0		

C-REF-NO 012	LAT 43-56-09N	YEAR 1966	NO. DEPTHS 02
CONS. NO 062	LON 076-10-39W	MONTH 08	SOUNDING 0018
COUNTRY 18		DAY 19	BT SLIDE NO 089
INSTITUTE 22		TIME 0817	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.29		7.98				84.0
10.0		22.30		8.01				84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	120.0	25.0	0.009	0.001	0.110		190E01	
10.0	126.0	25.0	0.009	0.001	0.100		110E01	

DEPTH	SPC 20	SPC 35
1.0	190E02	180E02
10.0		

C-REF-NO 012
CONS. NO 063
COUNTRY 18
INSTITUTE 22

LAT 43-57-42N
LON 076-13-54W

YEAR 1966
MONTH 08
DAY 19
TIME 0859

NO. DEPTHS 02
SOUNDING 0016
BT SLIDE NO 090

DEPTH	SECCHI	TEMP	CON 1.8	D O2	PH 25	TURB	BOD	T ALK
1.0		21.87		8.87				89.0
10.0		21.85		9.10				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.5	0.009	0.001	0.015		640E01	
10.0	126.0	27.5	0.009	0.001	0.015		000E00	

DEPTH	SPC 20	SPC 35
1.0	450E02	160E02
10.0		

C-REF-NO 012 LAT 43-56-00N YEAR 1966 NO. DEPTHS 02
CONS. NO 064 LON 076-17-03W MONTH 08 SOUNDING 0014
COUNTRY 18 DAY 19 BT SLIDE NO 091
INSTITUTE 22 TIME 0942

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.83		8.26				89.0
10.0		21.80		8.29				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.0	0.009	0.001	0.020		400E00	200E00
10.0	126.0	27.0	0.009	0.001	0.020		200E00	

DEPTH	SPC 20	SPC 35
1.0	900E00	120E01
10.0		

C-REF-NO 012
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 43-54-51N
LON 076-20-42W

YEAR 1966
MONTH 08
DAY 19
TIME 1024

NO. DEPTHS 03
SOUNDING 0025
BT SLIDE NO 092

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.58		8.90				89.0
10.0		21.61		9.01				89.0
20.0		21.24		8.85				90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	27.5	0.004	0.001	0.015		200E00	000E00
10.0	126.0	27.5	0.004	0.001	0.010		500E00	
20.0	126.0	27.5	0.009	0.001	0.010		500E00	

DEPTH	SPC 20	SPC 35
1.0	200E00	190E01
10.0		
20.0		

C-REF-NO 012	LAT 43-57-45N	YEAR 1966	NO. DEPTHS 03
CONS. NO 066	LON 076-20-00W	MONTH 08	SOUNDING 0024
COUNTRY 18		DAY 19	BT SLIDE NO 093
INSTITUTE 22		TIME 1111	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.50		8.64				90.0
10.0		21.53		8.64				90.0
20.0		21.51		8.64				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.5	0.004	0.001	0.010		230E01	000E00
10.0	128.0	27.5	0.004	0.001	0.010		770E01	
20.0	128.0	27.5	0.009	0.001	0.010		200E00	

DEPTH	SPC 20	SPC 35
1.0	500E00	700E00
10.0		
20.0		

C-REF-NO 012 LAT 44-00-21N YEAR 1966 NO. DEPTHS 02
CONS. NO 067 LON 076-19-51W MONTH 08 SOUNDING 0010
COUNTRY 18 DAY 19 BT SLIDE NO 094
INSTITUTE 22 TIME 1201

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.74		8.76				89.0
10.0		21.76		8.84				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	28.0	0.004	0.001	0.015		400E00	000E00
10.0	124.0	28.5	0.004	0.001	0.010		100E00	

DEPTH	SPC 20	SPC 35
1.0	600E00	280E01
10.0		

C-REF-NO 012	LAT 44-00-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 068	LON 076-46-03W	MONTH 08	SOUNDING 0031
COUNTRY 18		DAY 19	BT SLIDE NO 095
INSTITUTE 22		TIME 1435	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	21.07		8.93				84.0
10.0		21.02		8.85				85.0
20.0		11.39		4.22				93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.5	0.004	0.001	0.010		550E01	000E00
10.0	127.0	25.5	0.004	0.001	0.010		730E01	
20.0	134.0	25.0	0.139	0.001	0.025		540E01	

DEPTH	SPC 20	SPC 35
1.0		330E01
10.0		
20.0		

C-REF-NO 012	LAT 44-03-30N	YEAR 1966	NO. DEPTHS 02
CONS. NO 069	LON 076-29-48W	MONTH 08	SOUNDING 0016
COUNTRY 18		DAY 19	BT SLIDE NO 096
INSTITUTE 22		TIME 1628	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.8	21.95		8.82				85.0
10.0		21.28		8.81				86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.0	0.004	0.001	0.010		200E00	000E00
10.0	127.0	26.5	0.004	0.001	0.010		480E01	

DEPTH	SPC 20	SPC 35
1.0		390E01
10.0		

CRUISE 66-14, LAKE ONTARIO

C-REF-NO 014 LAT 44-00-24N YEAR 1966 NO. DEPTHS 05
CONS. NO 001 LON 076-46-15W MONTH 08 SOUNDING 0031
COUNTRY 18 DAY 29 BT SLIDE NO 001
INSTITUTE 22 TIME 1800

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.9	20.82	270	9.52	8.530	1.0	0.9	86.0
3.0								
10.0		20.81	272	9.57	8.570	1.0		87.0
20.0		20.24	271	8.69	8.430	0.7		87.0
25.0		12.27	283		7.900	0.8		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.8	24.5	0.009	0.001	0.025		000E00	
3.0						0.000		
10.0	127.5	24.5	0.004	0.001	0.049		600E00	
20.0	127.5	24.5	0.008	0.002	0.053			
25.0	136.5	24.5	0.157	0.003	0.050		000E00	

DEPTH	SPC 20	SPC 35
1.0	850E02	850E02
3.0		
10.0		
20.0		
25.0		

C-REF-NO 014	LAT 44-03-21N	YEAR 1966	NO. DEPTHS 03
CONS. NO 002	LON 076-29-57W	MONTH 08	SOUNDING 0016
COUNTRY 18		DAY 29	BT SLIDE NO 002
INSTITUTE 22		TIME 1946	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.8	20.80	270	9.79	8.590	0.6	1.1	85.5
3.0								
10.0		20.48	271	9.37	8.570	0.8		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.8	24.0	0.004	0.001	0.010		000E00	
3.0						0.000		
10.0	126.3	24.0	0.003	0.002	0.095		700E00	

DEPTH	SPC 20	SPC 35
1.0	210E02	450E01
3.0		
10.0		

C-REF-NO 014
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-54-54N
LON 076-16-09W

YEAR 1966
MONTH 09
DAY 29
TIME 2147

NO. DEPTHS 04
SOUNDING 0026
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.8	21.42	269	9.59	8.610	0.8	1.0	84.5
3.0								
10.0		20.88	269	8.80	8.490	0.7		85.0
20.0		20.68	270	8.39	8.510	0.5		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.8	24.5	0.008	0.002	0.060		000E00	100E00
3.0						0.000		
10.0	123.3	24.5	0.008	0.002	0.112		500E00	
20.0	127.8	24.5	0.012	0.003	0.080		000E00	

DEPTH	SPC 20	SPC 35
1.0	180E02	300E00
3.0		
10.0		
20.0		

C-REF-NO 014 LAT 43-46-03N YEAR 1966 NO. DEPTHS 05
CONS. NO 004 LON 076-18-57W MONTH 08 SOUNDING 0035
COUNTRY 18 DAY 29 BT SLIDE NO 004
INSTITUTE 22 TIME 2312

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.2	21.75	271	9.86	8.600	1.0	0.2	85.5
3.0								
10.0		20.47	274	9.22	8.530	1.1	1.1	85.5
20.0		20.16	272	8.70	8.430	1.3	0.4	85.5
30.0		19.88	272	8.64	8.400	0.9	0.3	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.8	24.5	0.003	0.002	0.003		000E00	400E00
3.0						0.000		
10.0	129.8	24.5	0.008	0.002	0.092		160E01	
20.0	128.5	24.0	0.007	0.003	0.056		000E00	
30.0	127.2	26.0	0.012	0.003	0.115		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	100E00
3.0		
10.0		
20.0		
30.0	100E02	500E00

C-REF-NO 014
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 43-51-42N
LON 076-32-33W

YEAR 1966
MONTH 08
DAY 30
TIME 0045

NO. DEPTHS 03
SOUNDING 0026
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.11	269	9.78	8.610	1.4	1.2	85.5
3.0								
10.0		20.65	273	8.96	8.490	0.7		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	25.0	0.003	0.002	0.050		000E00	
3.0						0.000		
10.0	128.5	25.0	0.008	0.002	0.040		600E00	

DEPTH	SPC 20	SPC 35
1.0	480E02	120E01
3.0		
10.0		

C-REF-NO 014 LAT 43-40-42N YEAR 1966 NO. DEPTHS 08
CONS. NO 006 LON 076-33-24W MONTH 08 SOUNDING 0132
COUNTRY 18 DAY 30 BT SLIDE NO 006
INSTITUTE 22 TIME 0252

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.12	269		8.570	1.9	1.2	90.0
3.0								
10.0		20.95	270	9.25	8.540	1.3	1.0	86.0
20.0		19.95	272	8.61	8.110	0.3	0.3	86.5
30.0		15.04	278	10.98	8.140	0.9	0.3	91.0
50.0		4.85	279	12.14	8.100	1.8	0.1	90.5
75.0		4.20	280	12.61	8.160	0.9	0.2	91.0
100.0		3.89	281	11.15	8.060	1.2	0.1	92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.8	25.0	0.138	0.002	0.060		600E00	
3.0						0.000		
10.0	128.9	25.0	0.003	0.002	0.014		000E00	
20.0	131.5	26.0	0.016	0.004	0.036		000E00	
30.0	135.4	26.5	0.170	0.020	0.025		000E00	
50.0	136.0	26.0	0.208	0.002	0.034		100E00	
75.0	136.0	26.0	0.199	0.001	0.078		200E00	
100.0	138.0	26.0	0.219	0.001	0.160		100E01	000E00

DEPTH	SPC 20	SPC 35
1.0	300E02	600E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	650E01	200E01

C-REF-NO 014 LAT 43-34-00N YEAR 1966 NO. DEPTHS 04
CONS. NO 007 LON 076-20-09W MONTH 08 SOUNDING 0034
COUNTRY 18 DAY 30 BT SLIDE NO 008
INSTITUTE 22 TIME 0446

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.53	276	9.73	8.670	0.9	0.9	84.0
3.0								
10.0		21.04	276	9.47	8.630	0.9		83.5
20.0		20.13	274	8.45	8.440	0.6		84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.2	25.5	0.004	0.001			100E00	000E00
3.0						0.000		
10.0	130.2	28.0	0.004	0.001	0.014		000E00	
20.0	128.6	28.0	0.011	0.004	0.041		100E00	

DEPTH	SPC 20	SPC 35
1.0	440E02	230E01
3.0		
10.0		
20.0		

C-REF-NO 014 LAT 43-30-03N YEAR 1966 NO. DEPTHS 06
CONS. NO 008 LON 076-34-21W MONTH 08 SOUNDING 0066
COUNTRY 18 DAY 30 BT SLIDE NO 009
INSTITUTE 22 TIME 0627

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.05	288	9.22	8.520	1.6	0.6	84.0
3.0								
10.0		20.10	272	8.59	8.420	1.4		84.5
20.0		19.65	272	8.70	8.400	1.1		85.5
30.0		9.64	279	9.54	8.090	0.4		90.0
50.0		4.60	281	11.40	8.050	0.8		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.0	26.5	0.004	0.001	0.030		120E01	000E00
3.0						0.000		
10.0	128.5	32.0	0.008	0.002	0.027		000E00	
20.0	128.5	25.0	0.022	0.003	0.020		100E00	
30.0	135.3	25.0	0.206	0.004	0.028		100E00	
50.0	138.2	25.0	0.214	0.001	0.055		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	180E02	150E01
3.0		
10.0		
20.0		
30.0		
50.0	650E01	310E01

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

LAT 43-23-42N
LON 076-49-00W

YEAR 1966
MONTH 08
DAY 30
TIME 0816

NO. DEPTHS 06
SOUNDING 0069
BT SLIDE NO 010

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.47	271	9.78	8.600	1.4	0.8	84.5
3.0								
10.0		20.29	271	9.45	8.550	0.9		85.0
20.0		19.16	272	8.72	8.410	0.7		86.0
30.0		11.70	278	9.87	8.150	0.8		86.5
50.0		4.10	281	11.48	8.070	0.8		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.8	25.0	0.004	0.001	0.030		100E00	800E00
3.0						0.000		
10.0	127.8	25.0	0.003	0.002	0.034		300E00	
20.0	128.8	25.0	0.013	0.002	0.038		140E01	
30.0	133.8	25.0	0.147	0.003	0.036		780E01	
50.0	136.4	24.0	0.228	0.002	0.042		400E00	200E00

DEPTH	SPC 20	SPC 35
1.0	400E02	660E01
3.0		
10.0		
20.0		
30.0		
50.0	110E02	550E01

C-REF-NO 014
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 43-35-36N
LON 076-48-03W

YEAR 1966
MONTH 08
DAY 30
TIME 1022

NO. DEPTHS 09
SOUNDING 0196
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.57	269	9.36	8.570	1.2	0.6	85.0
3.0								
10.0		20.45	270	9.15	8.560	1.8	0.7	85.5
20.0		6.98	271	8.66	8.040	0.9	0.3	86.5
30.0			280	10.63		0.8	0.2	90.0
50.0		4.98	279	12.14	8.110	1.2	0.1	90.5
75.0		4.10	280	12.60	7.910	0.9	0.0	91.0
100.0		3.95	280	12.65	8.010	0.2	0.0	91.0
150.0		3.82		12.62	8.080	0.2	0.3	91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.2	25.5	0.009	0.001	0.010		100E01	200E00
3.0						0.000		
10.0	129.8	25.0	0.014	0.001	0.015		200E00	
20.0	130.0	25.0	0.010	0.005	0.020		000E00	
30.0	127.0	24.5	0.112	0.003	0.020		130E01	
50.0	136.0	24.5	0.209	0.001	0.020		300E00	
75.0	136.0	24.0	0.199	0.001	0.020		800E00	
100.0	135.5	24.0	0.204	0.001	0.040		170E01	
150.0	136.2	25.0	0.239	0.001	0.025		000E00	

DEPTH	SPC 20	SPC 35
1.0	150E02	180E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	130E02	160E01

C-REF-NO 014
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-47-30N
LON 076-47-00W

YEAR 1966
MONTH 08
DAY 30
TIME 1228

NO. DEPTHS 06
SOUNDING 0068
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.68	270	9.17	8.520	0.9	0.7	85.5
3.0								
10.0		20.70	269	9.17	8.540	0.8		86.0
20.0		20.66		9.08	8.520	0.7		85.5
30.0		14.16	278	9.34	8.190	0.9		88.5
50.0		4.63	268	11.29	8.040	0.7		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.8	25.0	0.007	0.003	0.025		000E00	000E00
3.0						0.000		
10.0	129.8	25.5	0.012	0.003	0.030		200E00	
20.0	128.0	25.0	0.022	0.003	0.030		000E00	
30.0	133.0	24.5	0.109	0.016	0.030		000E00	
50.0	137.0	24.5	0.217	0.003	0.040		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	400E02	900E00
3.0		
10.0		
20.0		
30.0		
50.0	530E01	160E01

C-REF-NO 014 LAT 43-51-15N YEAR 1966 NO. DEPTHS 04
CONS. NO 012 LON 076-58-30W MONTH 08 SOUNDING 0026
COUNTRY 18 DAY 30 BT SLIDE NO 015
INSTITUTE 22 TIME 1401

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.50	273	9.11	8.520	0.9	0.8	85.0
3.0								
10.0		20.42	274	8.87	8.500	1.0	0.5	86.5
20.0		18.89	273	8.00	8.310	0.7	0.3	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.8	25.0	0.004	0.001	0.010		000E00	000E00
3.0						0.000		
10.0	131.5	25.5	0.007	0.003	0.015		200E00	
20.0	131.5	25.0	0.031	0.004	0.015		000E00	

DEPTH	SPC 20	SPC 35
1.0	120E02	110E01
3.0		
10.0		
20.0		

C-REF-NO 014
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-42-06N
LON 077-01-51W

YEAR 1966
MONTH 08
DAY 30
TIME 1550

NO. DEPTHS 07
SOUNDING 0098
BT SLIDE NO 017

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	20.63	272	9.50	8.610	1.4	0.8	85.0
3.0								
10.0		19.82		9.05	8.500	1.0	0.7	85.0
20.0		14.44	279	9.16	8.220	0.5	0.4	88.5
30.0		10.17		9.53	8.080	0.4	0.2	90.5
50.0		4.75	283	11.58	8.060	0.5	0.5	91.0
75.0		4.63	282	11.54	8.110	0.9	0.2	90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.0	0.003	0.002	0.015		000E00	800E00
3.0						0.000		
10.0	128.5	25.0	0.008	0.002	0.026		100E00	
20.0	134.0	25.0	0.006	0.002	0.026		000E00	
30.0	136.5	25.0	0.153	0.002	0.026		100E00	
50.0	137.5	24.5	0.199	0.001	0.015		300E00	
75.0	137.0	25.0	0.199	0.001	0.015		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	900E01	600E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0	580E01	190E01

C-REF-NO 014	LAT 43-30-09N	YEAR 1966	NO. DEPTHS 10
CONS. NO 014	LON 077-04-06W	MONTH 08	SOUNDING 0221
COUNTRY 18		DAY 30	BT SLIDE NO 019
INSTITUTE 22		TIME 1743	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.3	20.50	267	9.90	8.570	1.2	0.8	85.0
3.0								
10.0		19.89	269	9.47	8.520	0.8	0.8	85.5
20.0		19.32	269	8.76	8.410	0.7	0.4	85.5
30.0		12.08	275	9.29	8.150	0.4	0.4	88.0
50.0		4.96	278	12.26	8.090	0.2	0.3	90.5
75.0		4.08	277	12.65	8.110	0.4	0.3	90.5
100.0		3.89	280	12.66	8.090	0.0	0.2	90.5
149.0		3.83	279	12.70	8.090	0.2	0.2	90.5
199.0		3.76	280	12.18	8.080	0.3	0.3	91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.0	0.003	0.002	0.020		000E00	000E00
3.0						0.000		
10.0	129.0	26.0	0.003	0.002	0.024		000E00	
20.0	129.5	26.0	0.010	0.005	0.020		000E00	
30.0	134.5	25.0	0.139	0.019	0.020		500E00	
50.0	137.5	25.5	0.197	0.005			000E00	
75.0	137.0	25.5	0.197	0.003	0.020		100E00	
100.0	137.0	24.5	0.207	0.003	0.025		000E00	
149.0	137.0	25.0	0.204	0.001	0.040		000E00	
199.0	137.5	25.5	0.203	0.002	0.010		300E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E02	900E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
149.0		
199.0	110E01	110E01

C-REF-NO 014
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT 43-18-51N
LON 077-03-57W

YEAR 1966
MONTH 08
DAY 30
TIME 2000

NO. DEPTHS 04
SOUNDING 0026
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.9	21.03	270	10.04	8.610	1.4	0.6	85.0
3.0								
10.0		20.65	271	9.73	8.580	1.0	1.0	85.0
20.0		17.53	273	8.62	8.290	0.7	0.5	87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	26.5	0.003	0.002	0.015		000E00	
3.0						0.000		
10.0	130.0	26.5	0.003	0.002	0.025		300E00	
20.0	132.5	26.0	0.047	0.008	0.020		760E01	

DEPTH	SPC 20	SPC 35
1.0	187E02	270E01
3.0		
10.0		
20.0		

C-REF-NO 014
CONS. NO 016
COUNTRY 18
INSTITUTE 22

LAT 43-25-06N
LON 077-17-54W

YEAR 1966
MONTH 08
DAY 30
TIME 2144

NO. DEPTHS 10
SOUNDING 0212
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.8	20.50	269	10.21	8.570	1.2	1.0	86.0
3.0								
10.0		19.20	273	8.84	8.470	0.9		86.0
20.0		18.59	273	8.78	8.360	0.8		86.5
30.0		7.05	279	11.36		0.2		90.0
50.0		4.83	279	12.35	8.010	0.2		91.0
75.0		4.02	279	12.68	8.050	0.2		91.0
100.0		3.91	279	12.77	8.060	0.3		91.5
150.0		3.82	280	12.93	8.090	0.2		91.5
200.0		3.79	280	11.98	8.030	0.4		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	26.5	0.004	0.001	0.024		000E00	100E01
3.0						0.000		
10.0	130.8	26.0	0.006	0.004	0.030		110E01	
20.0	130.2	25.5	0.031	0.011	0.038		400E00	
30.0	135.0	26.0	0.203	0.035	0.030		000E00	
50.0	136.2	25.5	0.217	0.008	0.030		100E00	
75.0	136.2	25.5	0.208	0.004	0.035		000E00	
100.0	136.2	25.0	0.214	0.008	0.040		000E00	
150.0	137.0	25.0	0.203	0.002	0.040		000E00	
200.0	137.0	25.5	0.221	0.003	0.035		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	230E02	300E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0		
200.0	900E01	310E01

C-REF-NO 014 LAT 43-36-57N YEAR 1966 NO. DEPTHS 07
CONS. NO 017 LON 077-16-24W MONTH 08 SOUNDING 0144
COUNTRY 18 DAY 30 BT SLIDE NO 024
INSTITUTE 22 TIME 2341

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	20.50	270	10.27	8.570	0.8	0.8	88.5
10.0		19.51	268	9.52	8.480	0.6		88.5
19.0		11.31	276	9.78	8.120	0.3		91.5
29.0		5.49	280	12.02	8.100	0.1		93.5
48.0		4.27	278	12.69	8.090	0.1		93.0
73.0		4.01	281	12.77	8.110	0.2		92.5
97.0		3.92	279	12.92	8.120	0.2		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	25.5	0.003	0.002	0.028		000E00	000E00
10.0	130.5	26.0	0.005	0.005	0.020		000E00	
19.0	135.0	26.0	0.144	0.006	0.020		000E00	
29.0	137.0	25.5	0.199	0.003	0.020		200E00	
48.0	136.5	25.5	0.212	0.001	0.022		000E00	
73.0	136.5	25.5	0.209	0.001	0.015		100E00	
97.0	137.5	26.0	0.209	0.001	0.010		000E00	300E00

DEPTH	SPC 20	SPC 35
1.0	700E01	800E00
10.0		
19.0		
29.0		
48.0		
73.0		
97.0	200E01	800E00

C-REF-NO 014 LAT 43-47-48N YEAR 1966 NO. DEPTHS 04
CONS. NO 018 LON 077-15-33W MONTH 08 SOUNDING 0035
COUNTRY 18 DAY 31 BT SLIDE NO 026
INSTITUTE 22 TIME 0120

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.69	271	9.22	8.490	0.6	0.7	80.5
3.0								
10.0		20.69	271	9.26	8.240	0.5		80.0
20.0		17.18	273	8.55	8.170	0.2		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	25.5	0.005	0.005	0.015		100E00	
3.0						0.000		
10.0	129.5	27.0	0.014	0.006	0.020		300E00	
20.0	132.5	25.5	0.120	0.018	0.035		000E00	

DEPTH	SPC 20	SPC 35
1.0	220E02	700E00
3.0		
10.0		
20.0		

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

LAT 43-43-21N
LON 077-30-36W

YEAR 1966
MONTH 08
DAY 31
TIME 0313

NO. DEPTHS 06
SOUNDING 0080
BT SLIDE NO 027

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.01	269	9.70	8.480	0.8	0.9	87.5
3.0								
10.0		19.58	269	9.38	8.460	0.8		87.5
20.0		14.93	276	8.98	8.270	0.4		89.0
30.0		4.92	281	11.60	8.130	0.2		92.5
50.0		4.51	281	11.99	8.090	0.3		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.0	25.5	0.005	0.003	0.005		200E00	000E00
3.0						0.000		
10.0	122.0	26.5	0.012	0.003	0.020		000E00	
20.0	125.0	26.0	0.136	0.008	0.020		100E00	
30.0	130.5	26.0	0.197	0.001	0.050		400E00	
50.0	137.5	26.0	0.199	0.001	0.040		100E00	500E00

DEPTH	SPC 20	SPC 35
1.0	940E01	300E00
3.0		
10.0		
20.0		
30.0		
50.0	480E01	530E01

C-REF-NO 014 LAT 43-31-42N YEAR 1966 NO. DEPTHS 09
CONS. NO 020 LON 077-31-30W MONTH 08 SOUNDING 0172
COUNTRY 18 DAY 31 BT SLIDE NO 029
INSTITUTE 22 TIME 0508

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.95	269	10.32	8.620	1.0	0.8	87.0
3.0								
10.0		18.99	271	9.33	8.460	1.0	0.7	88.0
20.0		17.94	272	8.92	8.370	0.4	0.6	88.0
30.0		6.82	277	12.11	8.150	0.2	0.3	92.0
50.0		4.88	279	12.36	8.120	0.1	0.3	92.0
75.0		4.18	278	12.64	8.130	0.3	0.2	92.0
100.0		3.85	278	12.74	8.120	0.3	0.2	92.0
150.0		3.79	281	11.88	8.090	0.2	0.2	93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	121.0	26.0	0.003	0.002	0.010		000E00	
3.0						0.000		
10.0	123.0	26.0	0.007	0.003	0.025		190E01	
20.0	123.0	26.5	0.023	0.005	0.030		100E00	
30.0	130.0	26.0	0.186	0.028	0.025		100E00	
50.0	129.8	25.5	0.193	0.001	0.040		000E00	
75.0	130.2	25.0	0.195	0.001			000E00	
100.0	130.0	25.5	0.193	0.001	0.035		000E00	
150.0	133.0	25.5	0.209	0.001	0.035		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	140E02	500E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	380E01	200E00

C-REF-NO 014
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 43-19-33N
LON 077-32-00W

YEAR 1966
MONTH 08
DAY 31
TIME 0707

NO. DEPTHS 05
SOUNDING 0055
BT SLIDE NO 031

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.08	269	10.34	8.590	1.1	1.1	87.5
3.0								
10.0		18.00	272	8.52	8.240	0.8		88.5
20.0		16.58	274	8.89	8.250	0.6		88.5
30.0		4.77	278	11.99	8.090	0.1		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	25.0	0.003	0.002	0.005		150E01	
3.0						0.000		
10.0	122.0	25.0	0.011	0.004	0.015		700E00	
20.0	123.0	25.5	0.026	0.004	0.025		500E00	
30.0	130.6	25.0	0.199	0.001	0.030			

DEPTH	SPC 20	SPC 35
1.0	210E02	230E01
3.0		
10.0		
20.0		
30.0		

C-REF-NO 014 LAT 43-26-12N YEAR 1966 NO. DEPTHS 08
CONS. NO 022 LON 077-46-00W MONTH 08 SOUNDING 0127
COUNTRY 18 DAY 31 BT SLIDE NO 032
INSTITUTE 22 TIME 0852

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.04	270	10.11	8.580	1.2	1.3	87.5
3.0								
10.0		18.27	275	8.67	8.370	0.7		89.0
20.0		16.19	274	9.04	8.240	0.9		88.5
30.0		5.66	280	11.75	8.030	0.1		92.0
49.0		4.23	279	12.69	8.080	0.2		92.0
74.0		3.90	279	12.93	8.110	0.2		92.0
98.0		3.83	280	11.26	7.980	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.5	25.5	0.003	0.002	0.020		000E00	
3.0						0.000		
10.0	125.0	25.5	0.022	0.003	0.025		500E00	
20.0	124.5	25.5	0.036	0.004	0.020		300E00	
30.0	130.5	25.0	0.207	0.001	0.020		200E00	
49.0	130.5	25.5	0.203	0.001	0.035		100E00	
74.0	130.5	26.5	0.199	0.001	0.035		100E00	
98.0		25.5	0.233	0.001	0.050		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	120E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	100E02	110E01

C-REF-NO 014 LAT 43-37-48N YEAR 1966 NO. DEPTHS 08
CONS. NO 023 LON 077-45-00W MONTH 08 SOUNDING 0145
COUNTRY 18 DAY 31 BT SLIDE NO 034
INSTITUTE 22 TIME 1042

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.56	274	10.17	8.550	0.9	1.1	87.5
3.0								
10.0		19.00	279	9.87	8.480	0.9		88.0
20.0		15.89	272	9.29	8.230	0.4		89.0
30.0		7.42	277	11.61	8.120	0.2		92.0
50.0		4.70	279	12.60	8.080	0.2		92.0
75.0		3.92	277	12.71	8.110	0.2		91.5
100.0		3.84	279	12.96	8.100	0.2		92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.5	26.5	0.002	0.003	0.015		000E00	000E00
3.0						0.000		
10.0	123.0	26.5	0.006	0.004	0.025		100E00	
20.0	125.0	26.0	0.069	0.011	0.015		000E00	
30.0	130.5	25.5	0.189	0.011	0.005		100E00	
50.0	131.5	25.5	0.214	0.002	0.030		100E00	
75.0	130.0	25.0	0.217	0.003	0.025		000E00	
100.0	131.0	25.0	0.223	0.001	0.035		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	150E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	370E01	600E00

C-REF-NO 014 LAT 43-50-21N YEAR 1966 NO. DEPTHS 06
CONS. NO 024 LON 077-44-06W MONTH 08 SOUNDING 0067
COUNTRY 18 DAY 31 BT SLIDE NO 036
INSTITUTE 22 TIME 1310

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	19.35	271	10.08	8.540	0.9	0.9	88.0
3.0								
10.0		17.38	273	9.44	8.430	0.5		89.5
20.0		9.86	278	9.90	8.140	0.4		94.0
30.0		5.50	281	11.14	8.120	0.3		95.0
50.0		4.65	281	11.68	8.110	0.2		95.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	25.5	0.003	0.002	0.015		170E02	100E01
3.0						0.000		
10.0	128.0	25.5	0.007	0.003	0.020		300E00	
20.0	131.0	26.0	0.132	0.002	0.020		000E00	
30.0	131.0	26.0	0.179	0.001	0.040		400E00	
50.0	132.0	25.5	0.184	0.001	0.035		000E00	500E00

DEPTH	SPC 20	SPC 35
1.0	870E01	460E01
3.0		
10.0		
20.0		
30.0		
50.0	920E01	260E01

C-REF-NO 014
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 43-55-39N
LON 077-57-54W

YEAR 1966
MONTH 08
DAY 31
TIME 1450

NO. DEPTHS 05
SOUNDING 0040
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.96	271	9.95	8.620	0.9	0.5	89.0
3.0								
10.0		17.92	273	9.11	8.430	0.6	0.7	90.5
20.0		15.96	275	9.06	8.310	0.7	0.7	91.0
30.0		10.69	279	9.42	8.100	0.4	0.5	94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	26.0	0.003	0.002	0.010		000E00	
3.0						0.008		
10.0	126.0	26.0	0.023	0.002	0.035		400E00	
20.0	128.0	26.0	0.057	0.003	0.045		300E00	
30.0	132.0	26.0	0.148	0.002	0.050		400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	130E02	540E01
3.0		
10.0		
20.0		
30.0	150E01	100E00

C-REF-NO 014	LAT 43-45-15N	YEAR 1966	NO. DEPTHS 08
CONS. NO 026	LON 077-59-00W	MONTH 08	SOUNDING 0113
COUNTRY 18		DAY 31	BT SLIDE NO 039
INSTITUTE 22		TIME 1622	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.9	18.84	273	10.30	8.560	0.9	1.1	91.0
3.0								
10.0		15.33	275	9.42	8.320	0.6	0.8	90.5
20.0		6.73	278	10.91	8.040	0.3		94.0
30.0		4.67	278	12.15	8.100	0.2	0.4	94.0
50.0		4.14	279	12.48	8.130	0.1	0.4	93.5
75.0		3.87	280	12.43	8.120	0.2	0.4	94.5
100.0		3.90	280	12.00	8.100	0.3	0.4	95.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.0	0.003	0.002	0.020		300E01	
3.0						0.000		
10.0	130.5	26.0	0.031	0.004	0.020		100E00	
20.0	131.5	26.0	0.144	0.006	0.025		000E00	
30.0		26.0	0.179	0.001	0.020		000E00	
50.0	130.5	25.5	0.184	0.001	0.025		000E00	
75.0	132.5	26.0	0.189	0.001	0.040		000E00	
100.0	133.5	25.5	0.194	0.001	0.040		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	180E01	300E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	480E01	200E00

C-REF-NO 014 LAT 43-33-00N YEAR 1966 NO. DEPTHS 09
CONS. NO 027 LON 077-59-48W MONTH 08 SOUNDING 0183
COUNTRY 18 DAY 31 BT SLIDE NO 041
INSTITUTE 22 TIME 1820

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	20.21	268		8.580	0.9	1.0	89.0
3.0								
10.0		19.07	269	9.59	8.470	0.8	0.8	89.5
20.0		14.54	273	9.48	8.150	0.6	0.9	91.5
30.0		4.98	279	12.28	8.090	0.6	0.2	95.0
49.0		4.28	279	12.84	8.120	0.2	0.3	94.5
74.0		3.94	279	13.01	8.130	0.2	0.2	95.0
99.0		3.88	278	12.95	8.150	0.0	0.2	94.5
148.0		3.80	280	13.09	8.140	0.0	0.2	94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.5	27.0	0.004	0.006	0.030		300E01	000E00
3.0						0.000		
10.0	123.5	25.5	0.010	0.010	0.030		800E00	
20.0	126.0	26.5	0.092	0.013	0.025		700E00	
30.0	132.0	25.5	0.213	0.027	0.050		300E00	
49.0	131.0	25.5	0.197	0.003	0.075		100E00	
74.0	131.5	26.0	0.194	0.001	0.030		400E01	
99.0	131.5	26.0	0.194	0.001	0.045		600E00	
148.0	131.5	26.5	0.193	0.002	0.050		670E01	000E00

DEPTH	SPC 20	SPC 35
1.0	112E02	660E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
99.0		
148.0	260E01	500E00

C-REF-NO 014
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 43-24-24N
LON 078-00-57W

YEAR 1966
MONTH 08
DAY 31
TIME 1619

NO. DEPTHS 06
SOUNDING 0058
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.3	20.72	272	11.20	8.590	1.1	3.0	90.5
3.0								
10.0		18.66	274	8.89	8.370	1.0	0.6	90.0
20.0		15.31	276	9.12	8.230	0.8	0.3	91.0
30.0		5.96	279	11.51	8.010	0.4	0.3	93.0
50.0		4.47	280	11.67	8.000	0.6	0.2	92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	22.5	0.008	0.002	0.010		100E00	100E00
3.0						0.000		
10.0	123.0	23.0	0.029	0.006	0.050		000E00	
20.0	124.5	22.5	0.077	0.008	0.055		600E00	
30.0	126.5	22.0	0.198	0.002	0.045		100E00	
50.0	131.0	22.0	0.198	0.002	0.060		800E00	300E00

DEPTH	SPC 20	SPC 35
1.0	220EC2	300E01
3.0		
10.0		
20.0		
30.0		
50.0	200E02	470E01

C-REF-NO 014
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-27-45N
LON 078-14-54W

YEAR 1966
MONTH 08
DAY 31
TIME 2200

NO. DEPTHS 08
SOUNDING 0121
BT SLIDE NO 044

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.8	20.36	271	11.12	8.600	1.2	0.6	88.0
3.0								
10.0		17.68	273	8.80	8.300	0.7		89.5
20.0		11.16	277	10.11	8.100	0.6		89.0
30.0		4.92	278	12.40	8.080	0.4		93.0
50.0		4.12	278	12.85	8.090	0.4		93.0
75.0		3.90	279	12.87	8.110	0.4		94.0
100.0		3.80	281	12.00	8.050	0.4		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.5	23.0	0.009	0.001	0.040		100E00	000E00
3.0						0.000		
10.0	125.0	22.5	0.030	0.005	0.020		000E00	
20.0		22.0	0.138	0.012	0.020		000E00	
30.0	130.0	22.0	0.207	0.003	0.055		000E00	
50.0	130.0	22.0	0.204	0.001	0.065		100E00	
75.0	130.5	22.5	0.204	0.001	0.050		600E00	
100.0	132.5	23.0	0.224	0.001	0.070		200E00	200E00

DEPTH	SPC 20	SPC 35
1.0	100E02	200E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	470E01	700E00

C-REF-NO 014 LAT 43-39-36N YEAR 1966 NO. DEPTHS 08
CONS. NO 030 LON 078-13-03W MONTH 09 SOUNDING 0150
COUNTRY 18 DAY 01 BT SLIDE NO 046
INSTITUTE 22 TIME 0020

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.20	268	10.47	8.580	1.5	1.0	87.5
3.0								
10.0		19.27	267	10.64	8.570	1.9		87.5
20.0		16.62	270	9.16	8.310	1.0		88.0
30.0		5.96	279	12.00	7.980	0.6		91.5
49.0		4.22	280	12.85	8.050	0.7		91.5
74.0		3.90	280	13.04	8.060	0.7		91.5
98.0		3.89	279	13.01	8.080	0.6		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.5	22.0	0.003	0.002	0.005		000E00	100E00
3.0						0.000		
10.0	134.0	22.0	0.007	0.003	0.005		700E00	
20.0	124.5	22.0	0.024	0.006	0.005		000E00	
30.0	130.5	22.5	0.186	0.014	0.025		000E00	
49.0	131.0	22.5	0.199	0.001	0.040		000E00	
74.0	131.0	22.5	0.199	0.001	0.045		000E00	
98.0	131.5	22.5	0.199	0.001	0.045		300E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E02	940E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	430E01	100E01

C-REF-NO 014 LAT 43-51-42N YEAR 1966 NO. DEPTHS 05
CONS. NO 031 LON 078-12-24W MONTH 09 SOUNDING 0051
COUNTRY 18 DAY 01 BT SLIDE NO 048
INSTITUTE 22 TIME 0204

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.04	273	11.24	8.600	2.3	1.2	87.5
3.0								
10.0		16.37	274	9.95	8.340	1.4		89.5
20.0		10.78	278	9.78	8.100	0.7		91.5
30.0		7.14	281	10.38	8.020	0.9		92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	22.0	0.037	0.003	0.015		100E00	100E00
3.0						0.000		
10.0	128.5	22.5	0.086	0.004	0.005		850E01	
20.0	130.0	22.5	0.190	0.002	0.005		600E00	
30.0	132.5	22.5	0.218	0.002	0.040		400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	350E01	800E00
3.0		
10.0		
20.0		
30.0	300E01	120E01

C-REF-NO 014 LAT 43-46-21N YEAR 1966 NO. DEPTHS 06
CONS. NO 032 LON 078-27-06W MONTH 09 SOUNDING 0078
COUNTRY 18 DAY 01 BT SLIDE NO 049
INSTITUTE 22 TIME 0338

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.07	274	10.82	8.570	1.6	0.9	89.0
3.0								
10.0		12.16	277	10.47	8.190	1.0		91.0
20.0		5.41	280	11.67	8.100	0.8		92.5
30.0		4.43	279	12.54	8.090	0.9		92.5
50.0		4.07	281	12.11	8.090	0.4		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	22.5	0.003	0.002	0.030		000E00	100E00
3.0						0.000		
10.0	128.0	22.5	0.078	0.012	0.015		900E00	
20.0	130.0	22.5	0.173	0.002	0.005		000E00	
30.0	130.0	22.5	0.188	0.002	0.005		000E00	
50.0	132.0	22.5	0.208	0.002	0.045		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	200E01	400E00
3.0		
10.0		
20.0		
30.0		
50.0	340E01	170E01

C-REF-NO 014
CONS. NO 033
COUNTRY 18
INSTITUTE 22

LAT 43-41-00N
LON 078-42-03W

YEAR 1966
MONTH 09
DAY 01
TIME 0513

NO. DEPTHS 08
NO. DEPTHS 0108
SOUNDING NO 0113
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.81	267	10.06	8.490	2.8	0.7	87.5
3.0								
10.0		17.89	269	9.08	8.400	2.1		90.0
20.0		5.89	277	11.62	8.040	0.3		93.0
30.0		4.59	278	12.18	8.010	0.2		93.0
50.0		3.99	277	12.56	8.080	0.9		93.5
75.0		3.90	277	12.77	8.110	1.0		93.0
100.0		3.82	280	12.16	8.060	0.8		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	121.0	22.5	0.004	0.001	0.005		000E00	000E00
3.0						0.000		
10.0	124.5	22.5	0.008	0.002	0.005		300E00	
20.0	130.0	22.5	0.228	0.032	0.010		000E00	
30.0	130.0	22.5	0.246	0.024	0.015		200E00	
50.0	130.0	22.5	0.223	0.012	0.040		200E00	
75.0	130.0	22.5	0.252	0.008	0.035		000E00	
100.0	130.0	23.5	0.264	0.001	0.115		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	360E01	280E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	110E02	150E01

C-REF-NO 014	LAT 43-50-27N	YEAR 1966	NO. DEPTHS 04
CONS. NO 034	LON 078-40-39W	MONTH 09	SOUNDING 0035
COUNTRY 18		DAY 01	BT SLIDE NO 052
INSTITUTE 22		TIME 0635	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.88	275	11.12	8.570	1.2	1.0	91.0
3.0								
10.0		11.93	279	10.14	8.150	0.8		93.0
20.0		10.83	278	9.75	8.080	0.5		92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	22.5	0.002	0.003	0.050		200E00	000E00
3.0						0.000		
10.0	131.0	22.5	0.077	0.003	0.025		900E00	
20.0	130.0	22.5	0.092	0.003	0.010		500E00	

DEPTH	SPC 20	SPC 35
1.0	210E01	600E00
3.0		
10.0		
20.0		

C-REF-NO 014 LAT 43-47-27N YEAR 1966 NO. DEPTHS 05
CONS. NO 035 LON 078-55-57W MONTH 09 SOUNDING 0044
COUNTRY 18 DAY 01 BT SLIDE NO 053
INSTITUTE 22 TIME 0801

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		15.25	276	11.38	8.390	0.8	0.5	91.5
3.0								
10.0		9.18	282	9.87	8.050	0.8	0.3	93.0
20.0		8.72	281	9.89	8.020	0.6	0.2	94.0
30.0		7.72	280	9.96	7.980	0.5	0.2	93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	22.5	0.068	0.002	0.010		200E00	000E00
3.0						0.000		
10.0	128.5	22.5	0.118	0.002	0.025		400E00	
20.0	130.0	22.5	0.123	0.002	0.020		200E00	
30.0	130.0	22.5	0.188	0.002	0.020		300E00	200E00

DEPTH	SPC 20	SPC 35
1.0	420E01	600E00
3.0		
10.0		
20.0		
30.0	140E02	310E01

C-REF-NO 014 LAT 43-41-42N YEAR 1966 NO. DEPTHS 04
CONS. NO 036 LON 079-10-51W MONTH 09 SOUNDING 0029
COUNTRY 18 DAY 01 BT SLIDE NO 054
INSTITUTE 22 TIME 0949

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		16.78	275	11.38	8.510	1.2	0.8	91.0
3.0								
10.0		8.20	280	9.89	8.020	1.1		93.5
20.0		6.39	283	10.30	7.960	0.5		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	22.5	0.015	0.005	0.005		100E00	000E00
3.0						0.000		
10.0	130.0	22.5	0.147	0.003	0.010		500E00	
20.0	130.5	22.5	0.198	0.002	0.015		000E00	

DEPTH	SPC 20	SPC 35
1.0	420E01	200E01
3.0		
10.0		
20.0		

C-REF-NO 014
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-35-57N
LON 079-25-06W

YEAR 1966
MONTH 09
DAY 01
TIME 1135

NO. DEPTHS 05
SOUNDING 0040
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.3	14.47	281	11.05	8.200	1.1		93.5
10.0		10.39	282	11.04	8.120	0.9		93.5
20.0		7.42	282	10.17	7.990	0.4		
30.0		5.85	280	10.88	8.000	1.1		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	23.0	0.140	0.005	0.040			
10.0	130.0	23.0	0.176	0.004	0.035			
20.0	130.5	23.0	0.180	0.005	0.010			
30.0	129.5	23.0	0.219	0.006	0.035			

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 014	LAT 43-25-24N	YEAR 1966	NO. DEPTHS 08
CONS. NO 038	LON 079-26-00W	MONTH 09	SOUNDING 0108
COUNTRY 18		DAY 01	BT SLIDE NO 057
INSTITUTE 22		TIME 1802	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	1.5	20.67	270	10.38	8.520	3.1	0.7	88.0
3.0								
10.0		15.29	273	10.72	8.420	2.2	1.0	89.0
20.0		6.17	279	11.01	8.010	1.3	0.8	92.5
30.0		4.69	279	11.80	8.030	1.0		93.0
50.0		4.21	279	12.46	8.090	1.4	0.3	92.5
75.0		3.99	279	12.52	8.120	1.3	0.2	93.0
100.0		3.93	280	11.32	8.020	1.2	0.4	94.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	121.0	22.5	0.008	0.002	0.005		450E02	000E00
3.0						0.000		
10.0	121.0	22.0	0.007	0.003	0.020		100E00	
20.0	126.5	22.0	0.183	0.012	0.020		000E00	
30.0	128.5	22.0	0.215	0.050	0.025		400E00	
50.0	128.5	22.0	0.213	0.012	0.040		700E00	
75.0	129.0	22.0	0.213	0.007	0.045		200E01	
100.0	131.5	22.0	0.229	0.001	0.060		120E01	000E00

DEPTH	SPC 20	SPC 35
1.0	700E01	390E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	200E01	500E00

C-REF-NO 014
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-19-45N
LON 079-40-51W

YEAR 1966
MONTH 09
DAY 01
TIME 2000

NO. DEPTHS 05
SOUNDING 0048
BT SLIDE NO 059

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	1.6	20.13	270	11.42	8.660	3.1	1.1	89.0
3.0								
10.0		9.60	280	8.69	7.930	1.3	0.3	92.0
20.0		6.56	282	10.01	7.970	0.8	0.2	93.0
30.0		5.89	281	10.42	7.980	0.7	0.1	94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	24.5	0.004	0.001	0.010		700E00	000E00
3.0						0.000		
10.0	131.0	24.5	0.122	0.003	0.015		300E01	
20.0	130.5	24.5	0.194	0.001	0.035		130E01	
30.0	130.5	24.5	0.202	0.003			350E01	000E00

DEPTH	SPC 20	SPC 35
1.0	240E01	270E01
3.0		
10.0		
20.0		
30.0	510E01	230E01

C-REF-NO 014 LAT 43-14-15N YEAR 1966 NO. DEPTHS 05
CONS. NO 040 LON 079-27-09W MONTH 09 SOUNDING 0031
COUNTRY 18 DAY 01 BT SLIDE NO 060
INSTITUTE 22 TIME 2134

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	20.92	270	11.29	8.670	2.1	1.1	89.5
3.0								
10.0		13.08	277	9.21	8.110	1.6		92.5
20.0		7.71	282	9.62	8.000	1.5		94.5
30.0		6.17	282	10.33	7.990	1.4		95.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	122.5	24.5	0.004	0.001	0.010		150E01	100E00
3.0						0.000		
10.0	128.0	24.5	0.046	0.004	0.025		130E01	
20.0	131.0	25.0	0.174	0.026	0.040		320E01	
30.0	131.5	24.5	0.198	0.027	0.035		350E01	000E00

DEPTH	SPC 20	SPC 35
1.0	350E01	160E01
3.0		
10.0		
20.0		
30.0	340E01	290E01

C-REF-NO 014 LAT 43-18-21N YEAR 1966 NO. DEPTHS 07
CONS. NO 041 LON 079-12-51W MONTH 09 SOUNDING 0082
COUNTRY 18 DAY 01 BT SLIDE NO 061
INSTITUTE 22 TIME 2309

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	1.9	20.72	273	11.29	8.610	2.4	2.0	87.5
3.0								
10.0		9.14	281	8.67	7.890	1.3		93.5
20.0		5.65	280	11.13	7.970	0.8		93.5
30.0		4.52	279	11.95	8.020	0.6		93.0
50.0		3.96	279	12.40	8.050	0.3		92.5
75.0		4.03	281	11.12	8.000	1.1		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	120.0	25.0	0.004	0.001	0.020		430E02	100E00
3.0						0.000		
10.0	128.5	25.5	0.135	0.005	0.020		120E02	
20.0	129.0	25.0	0.189	0.026	0.020		600E01	
30.0	127.0	25.0	0.215	0.035	0.010		800E00	
50.0	127.5	25.0	0.232	0.018	0.040		120E01	
75.0	131.0	25.0	0.184	0.006	0.060		160E01	000E00

DEPTH	SPC 20	SPC 35
1.0	170E03	900E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0	420E01	140E01

C-REF-NO 014
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 43-30-39N
LON 079-11-00W

YEAR 1966
MONTH 09
DAY 02
TIME 0105

NO. DEPTHS 08
SOUNDING 0137
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.95	270	11.61	8.590	1.9	1.1	89.0
3.0								
10.0		10.51	281	9.59	8.040	1.4	0.5	92.5
20.0		4.78	279	12.30	8.050	3.0	0.6	92.5
30.0		4.22	277	12.80	8.120	0.9	0.2	92.0
50.0		4.01	278	12.98	8.130	0.8	1.1	92.0
75.0		3.93	278	13.12	8.130	0.8	0.4	92.0
100.0		3.85	280	13.12	8.140	0.3	7.1	92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	121.0	25.0	0.014	0.001	0.005		700E00	000E00
3.0						0.000		
10.0	128.5	25.0	0.054	0.006	0.015		650E01	
20.0	127.0	24.5	0.174	0.001	0.020		400E00	
30.0	128.0	24.5	0.178	0.002	0.045		600E00	
50.0	127.5	24.5	0.176	0.004	0.035		200E01	
75.0	128.0	24.5	0.171	0.004	0.035		500E00	
100.0	128.5	24.5	0.164	0.001	0.045		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	120E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	190E01	150E01

C-REP-NO 014
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-35-48N
LON 078-56-48W

YEAR 1966
MONTH 09
DAY 02
TIME 0252

NO. DEPTHS 08
SOUNDING 0128
BT SLIDE NO 064

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.19	269	10.52	8.510	2.2	1.2	87.5
3.0								
10.0		12.30	276	9.75	8.110	1.7	0.8	90.5
20.0		5.14	278	11.97	8.040	1.7	0.5	92.0
30.0		4.32	279	12.54	8.060	0.6	0.5	92.5
50.0		3.99	278	12.93	8.110	0.3	0.4	92.5
75.0		3.93	279	13.03	8.110	0.7	0.6	92.5
100.0		3.83	279	13.04	8.130	0.5	0.3	92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	120.0	24.5	0.003	0.002	0.010		300E00	000E00
3.0						0.000		
10.0	124.0	24.5	0.038	0.007	0.060		000E00	
20.0	127.0	24.0	0.200	0.035	0.020		300E00	
30.0	129.0	24.0	0.185	0.015	0.040		200E00	
50.0	128.0	24.0	0.192	0.008	0.030		210E01	
75.0	128.0	24.0	0.158	0.007	0.040		300E00	
100.0	128.5	24.0	0.164	0.001	0.020		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	890E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	300E01	100E01

C-REF-NO 014
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 43-24-06N
LON 078-58-03W

YEAR 1966
MONTH 09
DAY 02
TIME 0442

NO. DEPTHS 08
SOUNDING 0110
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.03	277	10.42	8.630	1.0	0.7	90.5
3.0								
10.0		21.41	276	10.61	8.610	2.1	0.9	91.0
20.0		8.22	279	10.33	8.090	1.1	0.4	94.0
30.0		4.71	279	12.46	8.110	0.8	0.4	92.5
49.0		4.01	278	12.77	8.150	1.0	0.3	92.0
74.0		3.90	279	12.87	8.160	1.1	0.3	92.5
99.0		3.86	284	10.33	8.020	1.0	0.4	96.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	120.5	25.0	0.003	0.002	0.020		300E00	000E00
3.0						0.000		
10.0	121.0	25.0	0.044	0.001	0.020		800E00	
20.0	130.0	24.5	0.082	0.018	0.030		900E00	
30.0	128.0	24.0	0.165	0.001	0.045		700E00	
49.0	126.0	24.0	0.153	0.002	0.040		400E00	
74.0	127.5	24.0	0.154	0.001	0.075		200E00	
99.0	132.0	24.0	0.209	0.001	0.030		400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	700E02	190E03
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
99.0	105E02	560E01

C-REF-NO 014
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-28-51N
LON 078-43-06W

YEAR 1966
MONTH 09
DAY 02
TIME 0628

NO. DEPTHS 08
SOUNDING 0152
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.14	270	10.64	8.600	2.0	1.2	87.0
3.0								
10.0		18.23	272		8.270	1.5		88.0
20.0		10.04	276	10.49	8.090	1.4		91.5
30.0		4.62	278	12.50	8.050	1.0		93.5
49.0		4.01	278	12.84	8.100	1.0		93.5
74.0		3.89	277	12.88	8.110	0.9		93.5
99.0		3.84	279	12.96	8.110	0.8		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	25.0	0.004	0.001	0.010		100E00	000E00
3.0						0.000		
10.0	128.0	25.0	0.027	0.003	0.010		100E00	
20.0	131.5	24.5	0.091	0.019	0.010		100E00	
30.0	135.0	24.0	0.154	0.016	0.015		200E00	
49.0	133.5	24.0	0.159	0.001	0.040		000E00	
74.0	133.0	24.0	0.139	0.001	0.045		100E00	
99.0	133.0	24.0	0.144	0.001	0.030		000E00	

DEPTH	SPC 20	SPC 35
1.0	220E02	710E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
99.0	550E01	900E00

C-REF-NO 014 LAT 43-24-21N YEAR 1966 NO. DEPTHS 06
CONS. NO 046 LON 078-29-18W MONTH 09 SOUNDING 0058
COUNTRY 18 DAY 02 BT SLIDE NO 068
INSTITUTE 22 TIME 0811

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.77	271	10.71	8.640	1.6	0.8	88.5
3.0								
10.0		13.87	276	8.66	8.120	1.2		91.5
20.0		8.37	281	9.71	7.970	1.2		93.5
30.0		4.84	279	11.43	7.980	1.7		93.0
50.0		4.29	279	11.51	8.000	1.0		94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	24.0	0.003	0.002	0.005		300E00	100E00
3.0						0.000		
10.0	131.0	24.0	0.035	0.015	0.050		330E01	
20.0	134.5	24.0	0.130	0.020	0.020		400E00	
30.0	133.0	23.5	0.214	0.011	0.010		100E01	
50.0	133.5	24.0	0.223	0.002	0.025		100E01	000E00

DEPTH	SPC 20	SPC 35
1.0	214E02	610E01
3.0		
10.0		
20.0		
30.0		
50.0	104E02	320E01

C-REF-NO 014 LAT 43-34-30N YEAR 1966 NO. DEPTHS 09
CONS. NO 047 LON 078-28-03W MONTH 09 SOUNDING 0174
COUNTRY 18 DAY 02 BT SLIDE NO 070
INSTITUTE 22 TIME 0945

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.46	266	10.34	8.540	2.6	0.7	86.0
3.0								
10.0		18.24	270	9.12	8.370	2.1	0.6	87.5
20.0		7.84	277	10.77	8.090	1.7	0.2	91.5
29.0		5.65	278	11.83	8.100	1.3	0.1	92.5
49.0		4.14	280	12.56	8.110	0.9	0.1	92.5
73.0		3.94	279	12.77	8.120	1.1	0.2	92.5
98.0		3.90	279	12.77	8.140	0.9	0.1	92.5
147.0		3.86	282		8.100	1.2	0.5	94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	24.5	0.004	0.001	0.005		000E00	
3.0						0.000		
10.0	127.0	24.5	0.001	0.004	0.015		200E00	
20.0	133.0	24.5	0.143	0.007	0.005		000E00	
29.0	133.5	24.5	0.199	0.001	0.025		000E00	
49.0	133.5	24.5	0.223	0.002	0.030		100E01	
73.0	134.5	24.5	0.199	0.001	0.035		200E00	000E00
98.0	133.5	24.5	0.289	0.001	0.035			
147.0	134.5	24.5	0.199	0.001	0.050			

DEPTH	SPC 20	SPC 35
1.0	425E02	200E02
3.0		
10.0		
20.0		
29.0		
49.0		
73.0	470E01	170E01
98.0		
147.0		