1966

LIMNOLOGICAL DATA REPORT NO. 4

LAKE ONTARIO

CRUISE 66 - 5 JUNE 26 - 30

PUBLISHED BY
CANADIAN OCEANOGRAPHIC DATA CENTRE

CANADA CENTRE FOR INLAND WATERS

BURLINGTON • ONTARIO

Programmed by

GREAT LAKES DIVISION

INLAND WATERS BRANCH

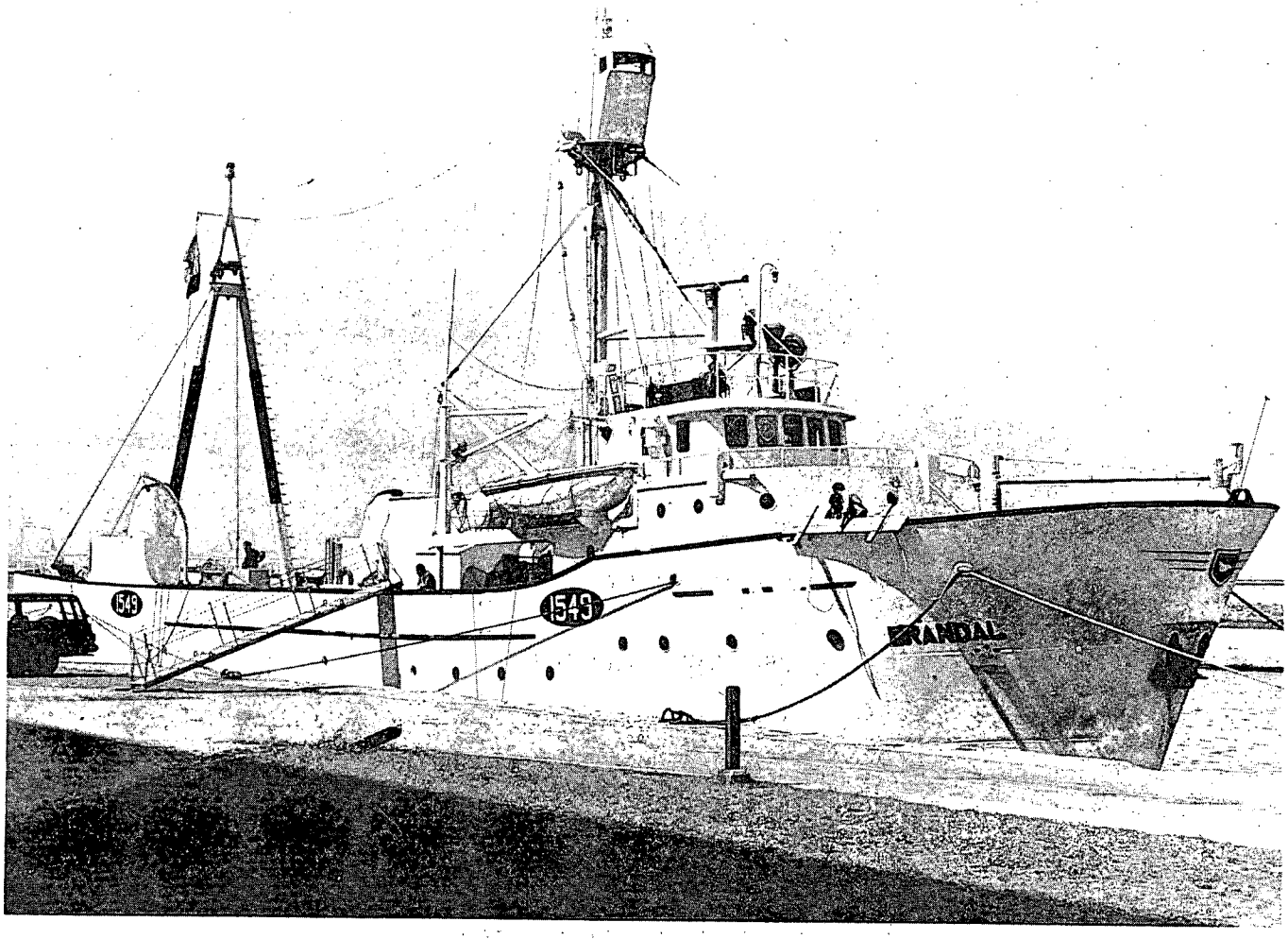
DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

CANADA



M. V. "Brandal"

CANADA

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CANADA CENTRE FOR INLAND WATERS
BURLINGTON, ONTARIO

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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.

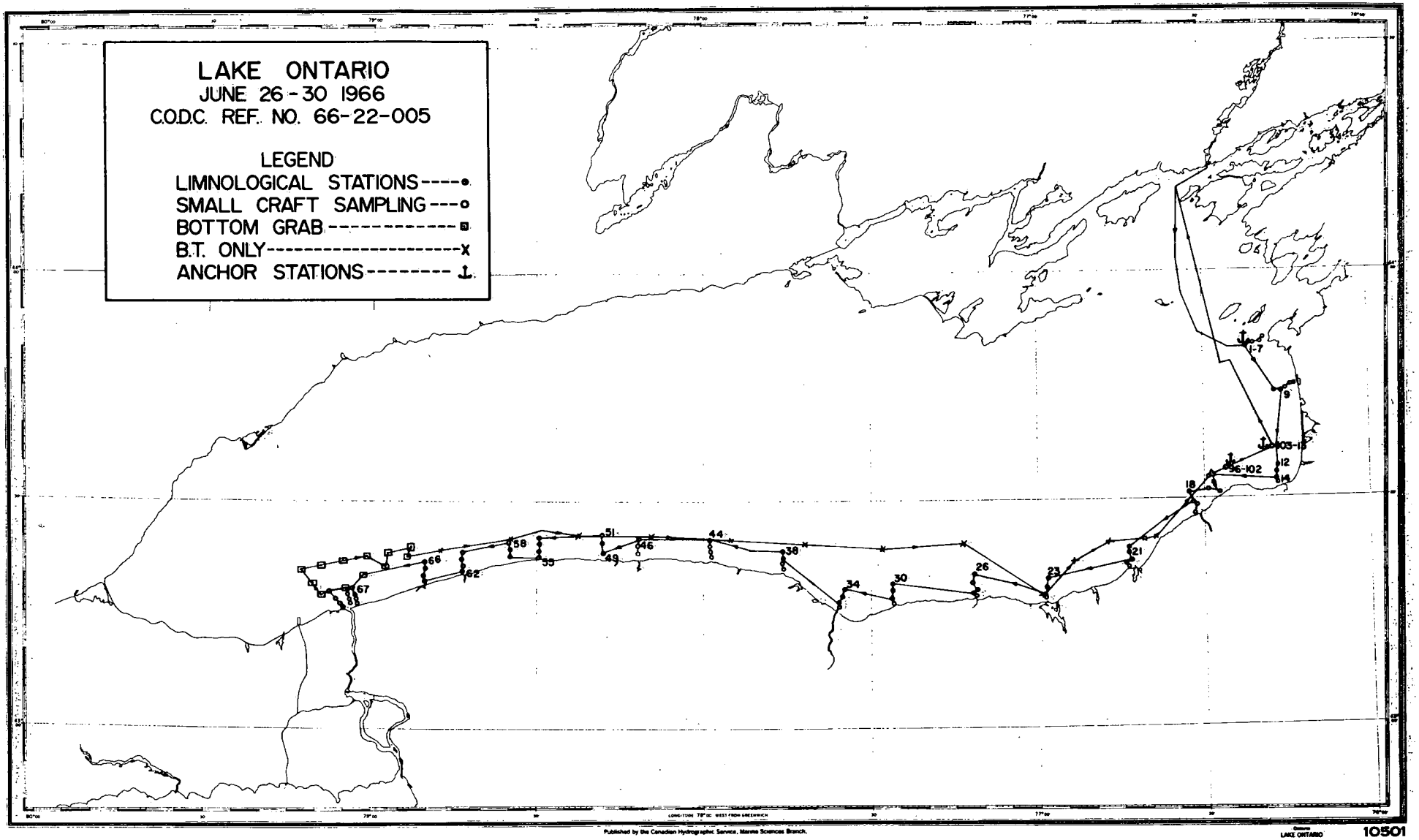
The 1966 surveys were carried out by the Great Lakes Division (Inland Waters Branch) and the Canadian Hydrographic Service (Marine Sciences Branch), both of which are Branches of the Department of Energy, Mines and Resources, and by the Public Health Engineering Division of the Department of National 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.



Published by the Canadian Hydrographic Service, Marine Sciences Branch.

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 milliequivalents ($Ca^{++} + Mg^{++}$)/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 cruises 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.

References

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CRUISE 66-5, LAKE ONTARIO

C-REF-NO 005
CONS. NO 001
COUNTRY 18
INSTITUTE 22

LAT 43-50-00N
LON 076-22-12W

YEAR 1966
MONTH 06
DAY 26
TIME 1626

NO. DEPTHS 03
SOUNDING 0035
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	18.55	297	12.17	8.800	0.5		91.0
15.0		13.47	290	10.43	8.500	0.3		92.0
25.0		8.81	262	10.44	8.200	0.2		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	135.5		0.029	0.001		0.000	400E00	
15.0	137.5	30.0	0.029	0.001		0.000	400E00	
25.0	138.8		0.029	0.001			100E00	

DEPTH	SPC 20	SPC 35
1.0	110E02	900E00
15.0		
25.0		

C-REF-NO 005	LAT 43-50-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 002	LON 076-22-12W	MONTH 06	SOUNDING 0035
COUNTRY 18		DAY 26	BT SLIDE NO 005
INSTITUTE 22		TIME 1715	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	18.86						
15.0		15.91						
25.0		8.29						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
15.0								
25.0								

DEPTH	SPC 20	SPC 35
1.0		
15.0		
25.0		

C-REF-NO 005
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 43-50-18N
LON 076-20-18W

YEAR 1966
MONTH 06
DAY 26
TIME 1725

NO. DEPTHS 03
SOUNDING 0050
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			297	12.14	8.600	0.7		
24.0			262	9.32		0.4		91.5
48.0			277	11.58	8.700	0.6		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0						0.000	400E00	100E00
24.0	138.8	26.0	0.025	0.003			000E00	000E00
48.0	141.6		0.025	0.001			800E00	

DEPTH	SPC 20	SPC 35
1.0	190E02	200E00
24.0		
48.0		

C-REF-NO 005	LAT 43-50-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 004	LON 076-22-12W	MONTH 06	SOUNDING 0035
COUNTRY 18		DAY 26	BT SLIDE NO 007
INSTITUTE 22		TIME 1815	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.58						
15.0		15.57						
25.0		11.00						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
15.0								
25.0								

DEPTH	SPC 20	SPC 35
1.0		
15.0		
25.0		

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

LAT 43-50-30N
LON 076-19-00W

YEAR 1966
MONTH 06
DAY 26
TIME 1835

NO. DEPTHS 03
SOUNDING 0013
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			295	12.03	8.600	0.5		89.0
6.0			273	11.67	8.700	0.5		90.0
12.0			282	11.69	8.700	0.5		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	139.4		0.035	0.001		0.000	600E00	100E00
6.0	137.0		0.025	0.001			500E00	
12.0	137.0		0.026	0.001				

DEPTH	SPC 20	SPC 35
1.0	100E02	160E01
6.0		
12.0		

C-REF-NO 005 | LAT 43-50-36N | YEAR 1966 | NO. DEPTHS 03
CONS. NO 006 | LON 076-18-48W | MONTH 06 | SOUNDING 0009
COUNTRY 18 | | DAY 26 | BT SLIDE NO
INSTITUTE 22 | | TIME 1910 |

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			285	12.11	8.700	0.7		89.0
4.0			285	11.89		0.4		
8.0			294	11.53	8.700	0.5		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	137.5		0.030	0.001		0.000	500E00	000E00
4.0							130E01	
8.0								

DEPTH	SPC 20	SPC 35
1.0	750E01	190E01
4.0		
8.0		

C-REF-NO 005	LAT 43-50-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 007	LON 076-22-12W	MONTH 06	SOUNDING 0035
COUNTRY 18		DAY 26	BT SLIDE NO 009
INSTITUTE 22		TIME 1914	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.64						
15.0		14.96						
25.0		10.86						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
15.0								
25.0								

DEPTH	SPC 20	SPC 35
1.0		
15.0		
25.0		

C-REF-NO 005
CONS. NO 008
COUNTRY 18
INSTITUTE 22

LAT 43-44-06N
LON 076-17-00W

YEAR 1966
MONTH 06
DAY 26
TIME 2102

NO. DEPTHS 03
SOUNDING 0031
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	17.83	274	13.64	8.800	0.5		91.5
15.0		11.65	275	11.75	8.300	0.7		92.0
25.0		10.08	272	11.21	8.200	0.4		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.8	25.2	0.035	0.001		0.000	000E00	200E00
15.0	134.0	25.2	0.056	0.002			000E00	
25.0	134.0	25.0	0.025	0.002		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	100E01
15.0		
25.0		

C-REF-NO 005
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 43-44-06N
LON 076-15-27W

YEAR 1966
MONTH 06
DAY 26
TIME 2207

NO. DEPTHS 03
SOUNDING 0025
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		16.98	273	13.21	8.800			91.0
10.0		15.80	274	12.69	8.700	0.7		79.0
20.0		10.39	271	11.21	8.200	1.1		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	134.0	27.8	0.030	0.002			110E01	000E00
10.0	136.7	27.4	0.026	0.002			900E00	
20.0	134.0	25.0	0.026	0.002			200E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	700E00
10.0		
20.0		

C-REF-NO 005
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 43-44-48N
LON 076-13-42W

YEAR 1966
MONTH 06
DAY 26
TIME 2230

NO. DEPTHS 03
SOUNDING 0016
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			287	12.37	8.700	0.8		90.0
8.0			279	12.94	8.800	0.7		90.0
15.0			277	12.80	8.800	0.5		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	136.1	31.0	0.033	0.002		0.000	600E00	000E00
8.0	135.4	29.5	0.043	0.002				
15.0	137.0	29.5	0.043	0.001			700E00	

DEPTH	SPC 20	SPC 35
1.0	860E02	800E01
8.0		
15.0		

C-REF-NO 005
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-44-54N
LON 076-13-12W

YEAR 1966
MONTH 06
DAY 26
TIME 2255

NO. DEPTHS 02
SOUNDING 0004
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			297	12.05	8.600	1.1		88.0
3.0			293	12.23	8.700	0.6		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	136.7		0.037	0.002		0.000		000E00
3.0	134.7		0.025	0.002				

DEPTH	SPC 20	SPC 35
1.0	490E02	740E01
3.0		

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

LAT 43-34-09N
LON 076-16-21W

YEAR 1966
MONTH 06
DAY 26
TIME 2343

NO. DEPTHS 03
SOUNDING 0026
BT SLIDE NO 013

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.10	273	13.17	8.800	0.5		
10.0		15.09	274	12.66	8.600	0.7		
20.0		9.80	277	11.83	8.200			

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.4		0.025	0.002		0.000	700E00	200E00
10.0	134.4		0.028	0.002		0.000	140E01	
20.0	136.1		0.033	0.002			200E00	

DEPTH	SPC 20	SPC 35
1.0	100E03	300E01
10.0		
20.0		

C-REF-NO 005
CONS. NO 013
COUNTRY 18
INSTITUTE 22

LAT 43-33-12N
LON 076-16-45W

YEAR 1966
MONTH 06
DAY 27
TIME 0028

NO. DEPTHS 03
SOUNDING 0017
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.52	288	13.44	8.700	0.5		
8.0		16.82	285	13.55	8.700	0.5		
16.0		16.01	278	12.83	8.700	0.5		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.6		0.025	0.002		0.002	500E00	000E00
8.0	133.6		0.025	0.002			130E01	
16.0	136.1		0.025	0.002			700E00	

DEPTH	SPC 20	SPC 35
1.0	260E02	110E01
8.0		
16.0		

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

LAT 43-32-21N
LON 076-16-06W

YEAR 1966
MONTH 06
DAY 27
TIME 0100

NO. DEPTHS 02
SOUNDING 0007
BT SLIDE NO 015

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.89	292	13.45	8.800	0.6		
3.0		17.61	285	13.71	8.000	0.7		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.7		0.025	0.002		0.000	200E00	500E00
3.0	134.7		0.025	0.002			400E00	

DEPTH	SPC 20	SPC 35
1.0	110E02	100E01
3.0		

C-REF-NO 005 LAT 43-33-03N YEAR 1966 NO. DEPTHS 03
CONS. NO 015 LON 076-28-27W MONTH 06 SOUNDING 0085
COUNTRY 18 DAY 27 BT SLIDE NO 016
INSTITUTE 22 TIME 0220

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.76	271		8.800	0.3		
35.0		5.61	278		8.200	0.2		
70.0		4.56	279		8.100	0.4		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0			0.037	0.002		0.000	000E00	000E00
35.0			0.035	0.002			000E00	
70.0			0.043	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	100E01	100E01
35.0		
70.0		

C-REF-NO 005 LAT 43-32-09N YEAR 1966 NO. DEPTHS 03
CONS. NO 016 LON 076-27-48W MONTH 06 SOUNDING 0051
COUNTRY 18 DAY 27 BT SLIDE NO 017
INSTITUTE 22 TIME 0253

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.88	271		8.700	0.4		
25.0		7.40	277		8.200	0.2		
40.0		5.92	277		8.100	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0			0.035	0.002		0.001	200E00	
25.0			0.033	0.002			100E00	
40.0			0.039	0.002			100E00	

DEPTH	SPC 20	SPC 35
1.0	350E01	500E00
25.0		
40.0		

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

LAT 43-31-06N
LON 076-27-24W

YEAR 1966
MONTH 06
DAY 27
TIME 0327

NO. DEPTHS 03
SOUNDING 0013
BT SLIDE NO 018

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.88	270		8.800	0.3		
10.0		17.32	272		8.700	0.3		
20.0		14.41	275		8.600	0.3		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0				0.002		0.000	100E00	000E00
10.0				0.002			700E00	
20.0				0.002			100E00	

DEPTH	SPC 20	SPC 35
1.0	100E02	100E01
10.0		
20.0		

C-REF-NO 005
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-30-54N
LON 076-32-06W

YEAR 1966
MONTH 06
DAY 27
TIME 0414

NO. DEPTHS 03
SOUNDING 0051
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.40	273	11.78	8.900	0.5		90.0
20.0		7.99	277	12.51	8.200	0.2		91.0
40.0		6.10	278	12.66	8.200	0.3		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0				0.002		0.000	600E00	000E00
20.0				0.001			000E00	
40.0				0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	150E01
20.0		
40.0		

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

LAT 43-29-57N
LON 076-31-45W

YEAR 1966
MONTH 06
DAY 27
TIME 0450

NO. DEPTHS 03
SOUNDING 0035
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.41	270	13.53	8.800	0.4		
15.0		12.15	275	12.35	8.500	0.6		91.0
30.0		8.01	278	12.15	8.200	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0				0.002		0.000	700E00	
15.0		25.0		0.002			200E00	
30.0		25.0		0.002			300E00	

DEPTH	SPC 20	SPC 35
1.0	100E02	200E01
15.0		
30.0		

C-REF-NO 005 LAT 43-23-54N YEAR 1966 NO. DEPTHS 03
CONS. NO 020 LON 076-43-42W MONTH 06 SOUNDING 0044
COUNTRY 18 DAY 27 BT SLIDE NO 021
INSTITUTE 22 TIME 0616

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		16.66	271	14.86	8.800	0.5		90.0
20.0		9.09	277	12.62	8.300	0.6		91.0
35.0		7.94	273	12.37	8.200	0.5		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0		25.0		0.002			000E00	000E00
20.0		25.0		0.002			200E00	
35.0	132.7	25.0		0.001			100E00	

DEPTH	SPC 20	SPC 35
1.0	850E01	800E00
20.0		
35.0		

C-REF-NO 005
CONS. NO 021
COUNTRY 16
INSTITUTE 22

LAT 43-22-57N
LON 076-43-12W

YEAR 1966
MONTH 06
DAY 27
TIME 0642

NO. DEPTHS 03
SOUNDING 0020
BT SLIDE NO 022

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.93	265	13.09	8.700	0.4		90.0
7.0		16.68	265	13.50	8.700	0.4		90.0
14.0		15.36	266	12.83	8.200	0.4		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.7	25.0		0.001		0.000	200E00	
7.0	132.2	25.0		0.001			100E00	
14.0	131.5	25.0		0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	750E01	150E01
7.0		
14.0		

C-REF-NO 005	LAT 43-22-09N	YEAR 1966	NO. DEPTHS 02
CONS. NO 022	LON 076-42-51W	MONTH 06	SOUNDING 0007
COUNTRY 18		DAY 27	BT SLIDE NO 023
INSTITUTE 22		TIME 0708	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.38	265	12.51	8.800	0.3		90.0
6.0		17.89	272	12.91	8.500	0.3		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.4	25.0		0.002		0.000	000E00	000E00
6.0	131.5	25.0		0.002			200E00	

DEPTH	SPC 20	SPC 35
1.0	110E02	100E01
6.0		

G-REF-NO 005
CONS. NO 023
COUNTRY 18
INSTITUTE 22

LAT 43-19-45N
LON 076-57-54W

YEAR 1966
MONTH 06
DAY 27
TIME 0845

NO. DEPTHS 05
SOUNDING 0048
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.00	265	12.67	8.700	0.3		90.0
10.0		14.20						
20.0		10.02	283	11.84	8.200	0.2		91.0
30.0		8.61						
40.0		5.14	278	12.75	8.100	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5	25.0		0.002		0.000	000E00	100E00
10.0								
20.0	134.3	27.5		0.004			100E00	
30.0								
40.0	133.0	27.5		0.004		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	700E00
10.0		
20.0		
30.0		
40.0		

C-REF-NO 005
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 43-18-42N
LON 076-58-09W

YEAR 1966
MONTH 06
DAY 27
TIME 0929

NO. DEPTHS 03
SOUNDING 0032
BT SLIDE NO 025

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.66	265	12.88	8.800	0.3		88.0
15.0		14.17	272	11.25	8.800	0.3		90.0
25.0		9.68	273	12.05	8.600	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.6	25.0		0.001		0.000	100E01	
15.0	132.4	26.8		0.004			300E00	
25.0	132.4	27.0		0.004			000E00	

DEPTH	SPC 20	SPC 35
1.0	750E01	150E01
15.0		
25.0		

C-REF-NO 005
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 43-17-42N
LON 076-58-15W

YEAR 1966
MONTH 06
DAY 27
TIME 1057

NO. DEPTHS 03
SOUNDING 0018
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.37	264	12.11	8.700	0.2		88.0
10.0		18.49	266	12.03		0.2		89.0
15.0		17.26	272	12.03	8.800	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.9	26.7		0.003		0.000	500E00	600E00
10.0	130.8	26.8		0.003				
15.0	131.4	26.8		0.003			600E00	

DEPTH	SPC 20	SPC 35
1.0	310E02	350E01
10.0		
15.0		

C-REF-NO 005 LAT 43-20-15N YEAR 1966 NO. DEPTHS 06
CONS. NO 026 LON 077-11-21W MONTH 06 SOUNDING 0066
COUNTRY 18 DAY 27 BT SLIDE NO 027
INSTITUTE 22 TIME 1130

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.5	17.88	269	13.28	8.800	0.2		88.0
10.0		13.21						
20.0		9.93						
30.0		6.41	277	12.99	8.300	0.2		90.0
49.0		5.06						
59.0		4.25	276	12.78	8.200	0.4		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.8	26.7		0.003		0.000	300E00	100E00
10.0								
20.0								
30.0	131.8	26.7		0.003		0.000	100E00	
49.0								
59.0	132.5	26.7		0.003		0.000	300E00	

DEPTH	SPC 20	SPC 35
1.0	450E01	800E00
10.0		
20.0		
30.0		
49.0		
59.0		

C-REF-NO 005
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 43-19-15N
LON 077-11-09W

YEAR 1966
MONTH 06
DAY 27
TIME 1210

NO. DEPTHS 03
SOUNDING 0044
BT SLIDE NO 028

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.56	271	12.83	8.800	0.3		78.0
25.0		8.49	275	13.47	8.200	0.3		89.0
40.0		5.88	275	12.48	8.300	0.2		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.3	27.5		0.002		0.000	200E00	000E00
25.0	132.9	26.7		0.003			300E01	
40.0	132.2	26.7		0.004			600E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	100E01
25.0		
40.0		

C-REF-NO 005
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 43-18-12N
LON 077-11-09W

YEAR 1966
MONTH 06
DAY 27
TIME 1245

NO. DEPTHS 02
SOUNDING 0020
BT SLIDE NO 029

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.10	269	12.78	8.800	0.4		87.0
10.0		18.75	255	11.56	8.700	0.4		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.8	26.8		0.003		0.000	400E00	300E00
10.0	131.6	26.8		0.004			450E01	000E00

DEPTH	SPC 20	SPC 35
1.0	240E02	850E01
10.0		

C-REF-NO 005
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 43-17-42N
LON 077-11-21W

YEAR 1966
MONTH 06
DAY 27
TIME 1315

NO. DEPTHS 02
SOUNDING 0009
BT SLIDE NO 030

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			275	11.41		0.4		88.0
6.0			273	11.17				89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.4	56.8		0.004			140E01	
6.0	132.0	57.6		0.004			310E01	

DEPTH	SPC 20	SPC 35
1.0	100E03	600E02
6.0		

C-REF-NO 005
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 43-19-06N
LON 077-25-51W

YEAR 1966
MONTH 06
DAY 27
TIME 1455

NO. DEPTHS 03
SOUNDING 0066
BT SLIDE NO 031

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.26	254	12.59	8.800	0.2		89.5
30.0		6.19	276	12.99	8.300	0.1		92.0
50.0		4.23	277	12.82	8.200	0.2		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.1		0.070	0.000		0.000	100E00	000E00
30.0	134.5		0.049	0.002		0.000	200E00	
50.0	134.1		0.027	0.002		0.000	200E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	540E02
30.0		
50.0		

C-REF-NO 005
CONS. NO 031
COUNTRY 18
INSTITUTE 22

LAT 43-18-06N
LON 077-25-51W

YEAR 1966
MONTH 06
DAY 27
TIME 1530

NO. DEPTHS 03
SOUNDING 0033
BT SLIDE NO 032

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.95	270		8.800	0.2		89.0
15.0		13.85	275		8.400	0.1		91.0
20.0		9.17	275		8.600	0.3		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.125	0.002		0.000	100E00	100E00
15.0	132.7		0.160	0.002			210E01	
20.0	133.3		0.115	0.001			120E01	

DEPTH	SPC 20	SPC 35
1.0	500E01	400E01
15.0		
20.0		

C-REF-NO 005
CONS. NO 032
COUNTRY 18
INSTITUTE 22

LAT 43-16-36N
LON 077-25-54W

YEAR 1966
MONTH 06
DAY 27
TIME 1550

NO. DEPTHS 02
SOUNDING 0007
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			277	11.00	8.500	0.3		87.0
6.0			275	10.84	8.500	0.2		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.0		0.115	0.003		0.000	100E01	100E00
6.0	132.3		0.100	0.002			500E00	

DEPTH	SPC 20	SPC 35
1.0	900E01	750E01
6.0		

C-REF-NO 005	LAT 43-17-06N	YEAR 1966	NO. DEPTHS 03
CONS. NO 033	LON 077-26-00W	MONTH 06	SOUNDING 0018
COUNTRY 18		DAY 27	BT SLIDE NO 033
INSTITUTE 22		TIME 1619	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.60	269	11.36	8.800	0.2		89.0
5.0		20.00	269	11.64	8.800	0.5		89.5
10.0		18.65	276	10.78	8.600	0.3		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5		0.065	0.001		0.001	100E00	000E00
5.0	131.4		0.085	0.001			300E00	
10.0	132.3		0.135	0.002			330E01	

DEPTH	SPC 20	SPC 35
1.0	500E01	450E01
5.0		
10.0		

C-REF-NO 005
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 43-18-30N
LON 077-34-30W

YEAR 1966
MONTH 06
DAY 27
TIME 1721

NO. DEPTHS 03
SOUNDING 0029
BT SLIDE NO 034

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.60	269	11.80	8.800	0.3		89.0
10.0		18.26	256	11.59	8.600	0.2		89.5
20.0		9.15	275	11.51	8.300	0.1		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.8		0.060	0.000		0.000	000E00	000E00
10.0	132.4		0.090	0.002		0.000	000E00	
20.0	139.0		0.130	0.003		0.001	200E00	

DEPTH	SPC 20	SPC 35
1.0	350E01	300E00
10.0		
20.0		

C-REF-NO 005
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 43-17-33N
LON 077-35-00W

YEAR 1966
MONTH 06
DAY 27
TIME 1749

NO. DEPTHS 03
SOUNDING 0020
BT SLIDE NO 035

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.22	269	11.49	8.800	0.3		87.5
7.0		19.97	269	11.52	8.800	0.3		88.0
14.0		19.15	269	10.78	8.700	0.3		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.2		0.155	0.002		0.001	600E00	100E00
7.0	131.2		0.125	0.001			300E00	
14.0	131.8						100E01	

DEPTH	SPC 20	SPC 35
1.0	550E01	100E01
7.0		
14.0		

C-REF-NO 005
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 43-16-36N
LON 077-35-27W

YEAR 1966
MONTH 06
DAY 27
TIME 1830

NO. DEPTHS 02
SOUNDING 0013
BT SLIDE NO 036

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.68	269	11.48	8.700	0.3		85.0
5.0		20.67	268	11.00	8.800	0.4		87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.130	0.001			000E00	000E00
5.0	131.2		0.085	0.002			200E00	

DEPTH	SPC 20	SPC 35
1.0	130E02	200E01
5.0		

C-REF-NO 005
CONS. NO 037
COUNTRY 18
INSTITUTE 22

LAT 43-16-12N
LON 077-35-42W

YEAR 1966
MONTH 06
DAY 27
TIME 1840

NO. DEPTHS 03
SOUNDING 0007
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			270	11.75	8.700	0.5		87.0
3.0			270	11.24	8.700	0.4		86.0
6.0			259	11.25	8.700	0.4		87.4

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.2		0.115	0.002		0.003		
3.0	133.3		0.115	0.002			000E00	000E00
6.0	131.8		0.110	0.001			100E00	

DEPTH	SPC 20	SPC 35
1.0		
3.0	350E01	150E01
6.0		

C-REF-NO 005
CONS. NO 038
COUNTRY 18
INSTITUTE 22

LAT 43-23-36N
LON 077-45-39W

YEAR 1966
MONTH 06
DAY 27
TIME 2029

NO. DEPTHS 06
SOUNDING 0073
BT SLIDE NO 037

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.01	262	12.32	8.800	0.2		89.5
10.0		11.35						
20.0		8.11						
30.0		6.39	266	13.23	8.400	0.2		89.0
50.0		4.32						
65.0		3.87	277	12.91	8.100	0.1		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.7		0.085	0.001			000E00	000E00
10.0								
20.0								
30.0	135.4		0.450	0.002		0.000	000E00	
50.0								
65.0	135.3		0.510	0.002		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	120E01	150E01
10.0		
20.0		
30.0		
50.0		
65.0		

C-REF-NO 005
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 43-21-00N
LON 077-45-42W

YEAR 1966
MONTH 06
DAY 27
TIME 2035

NO. DEPTHS 03
SOUNDING 0009
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			269	11.43	8.800	0.3		86.5
4.0			268	11.32	8.800	0.4		86.5
8.0			266	11.17	8.800	0.4		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.2		0.105	0.003			000E00	000E00
4.0	131.4		0.105	0.002			300E00	
8.0	131.3		0.125	0.002			200E00	

DEPTH	SPC 20	SPC 35
1.0	120E02	400E01
4.0		
8.0		

C-REF-NO 005
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 43-21-30N
LON 077-45-48W

YEAR 1966
MONTH 06
DAY 27
TIME 2100

NO. DEPTHS 03
SOUNDING 0013
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			269	12.54	8.700	0.6		
6.0			267	11.24	8.800	0.4		85.5
12.0			268	10.76	8.800	0.5		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0						0.000	300E00	100E00
6.0	131.1		0.110	0.002			600E00	
12.0	131.9		0.110	0.002			600E00	

DEPTH	SPC 20	SPC 35
1.0	950E01	400E01
6.0		
12.0		

C-REF-NO 005
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 43-22-30N
LON 077-44-51W

YEAR 1966
MONTH 06
DAY 27
TIME 2119

NO. DEPTHS 05
SOUNDING 0056
BT SLIDE NO 038

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	20.68	267	12.07	8.800	0.4		86.5
10.0		18.54						
20.0		8.97						
30.0		6.73	275	12.30	8.300	0.3		90.0
49.0		4.02	278	12.70	8.100	0.7		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5		0.085	0.001		0.000	100E00	000E00
10.0								
20.0								
30.0	134.4		0.440	0.002			000E00	
49.0	135.5		0.510	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	150E01
10.0		
20.0		
30.0		
49.0		

C-REF-NO 005	LAT 43-22-42N	YEAR 1966	NO. DEPTHS 02
CONS. NO 042	LON 077-58-24W	MONTH 06	SOUNDING 0007
COUNTRY 18		DAY 27	BT SLIDE NO
INSTITUTE 22		TIME 2250	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			273	11.33	8.500	0.4		86.0
6.0			269	11.38		0.4		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.2		0.080	0.001			100E00	
6.0	131.0		0.075	0.001			000E00	

DEPTH	SPC 20	SPC 35
1.0		350E01
6.0		

C-REF-NO 005
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 43-23-12N
LON 077-58-30W

YEAR 1966
MONTH 06
DAY 27
TIME 2255

NO. DEPTHS 03
SOUNDING 0016
BT SLIDE NO.

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			270	11.62	8.700	0.3		85.5
8.0			270	10.78		0.3		87.0
15.0			276	10.57		0.2		87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.8		0.110	0.002			100E00	000E00
8.0	132.5		0.185	0.003			000E00	
15.0	133.0		0.275	0.003			000E00	

DEPTH	SPC 20	SPC 35
1.0	450E01	120E02
8.0		
15.0		

C-REF-NO 005 LAT 43-25-09N YEAR 1966 NO. DEPTHS 06
CONS. NO 044 LON 077-58-33W MONTH 06 SOUNDING 0084
COUNTRY 18 DAY 27 BT SLIDE NO 039
INSTITUTE 22 TIME 2300

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	20.77	269	11.46	8.800	0.3		87.5
10.0		10.36						
20.0		7.07						
35.0		4.47	277	13.02	8.300	0.6		89.5
50.0		4.17						
70.0		4.04	278	12.96	8.200	0.1		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.1		0.080	0.001		0.000	000E00	000E00
10.0								
20.0								
35.0	134.5		0.490	0.002			000E00	
50.0								
70.0							000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	800E00
10.0		
20.0		
35.0		
50.0		
70.0		

C-REF-NO 005
CONS. NO 045
COUNTRY 18
INSTITUTE 22

LAT 43-24-15N
LON 077-58-21W

YEAR 1966
MONTH 06
DAY 27
TIME 2338

NO. DEPTHS 05
SOUNDING 0057
BT SLIDE NO 040

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	20.79	269	11.88	8.800	0.2		86.5
10.0		15.97						
25.0		6.34	276	12.56	8.200	0.1		89.5
29.0		5.09						
49.0		4.20	278	12.61	8.100	0.3		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.3		0.085	0.002		0.000	000E00	300E00
10.0								
25.0	135.0		0.480	0.002			000E00	
29.0								
49.0	135.2		0.570	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	700E00
10.0		
25.0		
29.0		
49.0		

C-REF-NO 005
CONS. NO 046
COUNTRY 18
INSTITUTE 22

LAT 43-25-09N
LON 078-11-18W

YEAR 1966
MONTH 06
DAY 28
TIME 0103

NO. DEPTHS 05
SOUNDING 0064
BT SLIDE NO 041

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.96	268	11.49	8.800	0.1		88.0
10.0		13.54						
20.0		8.44	273	12.24	8.300	0.1		89.5
30.0		6.01						
50.0		4.14	277	12.69	8.100	0.2		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5		0.090	0.001			300E00	100E00
10.0								
20.0	135.7		0.430	0.002			000E00	
30.0								
50.0	135.7		0.515	0.002		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	400E01	150E01
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005 LAT 43-24-06N YEAR 1966 NO. DEPTHS 04
CONS. NO 047 LON 078-11-09W MONTH 06 SOUNDING 0043
COUNTRY 18 DAY 28 BT SLIDE NO 042
INSTITUTE 22 TIME 0137

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.68	268	11.96	8.800	0.2		85.5
10.0		15.15						
20.0		8.63	274	12.00	8.300	0.2		89.0
30.0		4.39	279	12.29	8.100	0.3		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0		0.095	0.001		0.000	500E00	200E00
10.0								
20.0	135.6		0.435	0.003			000E00	
30.0	136.8		0.515	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	400E01	100E01
10.0		
20.0		
30.0		

C-REF-NO 005
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 43-23-09N
LON 078-11-21W

YEAR 1966
MONTH 06
DAY 28
TIME 0211

NO. DEPTHS 03
SOUNDING 0018
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.49	268	11.22	8.700	0.4		85.5
7.0		22.30	265	11.33	8.700	0.2		85.5
14.0		11.18	277	10.92	8.300	0.4		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.7		0.120	0.002		0.000	000E00	000E00
7.0	130.5		0.115	0.001			100E00	
14.0	133.0		0.335	0.004			000E00	

DEPTH	SPC 20	SPC 35
1.0	140E02	460E02
7.0		
14.0		

C-REF-NO 005	LAT 43-23-18N	YEAR 1966	NO. DEPTHS 02
CONS. NO 049	LON 078-17-54W	MONTH 06	SOUNDING 0013
COUNTRY 18		DAY 28	BT SLIDE NO 044
INSTITUTE 22		TIME 0303	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.49	266	11.35	8.800	0.3		86.0
6.0		22.44	265	11.40	8.700	0.2		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5		0.120	0.003		0.000	200E00	
6.0	131.2		0.125	0.002			100E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
6.0	110E02	300E02

C-REF-NO 005
CONS. NO 050
COUNTRY 18
INSTITUTE 22

LAT 43-24-24N
LON 078-17-51W

YEAR 1966
MONTH 06
DAY 28
TIME 0330

NO. DEPTHS 03
SOUNDING 0039
BT SLIDE NO 045

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.68	267	11.64	8.800	0.3		86.0
10.0		12.91	276	9.99	8.300	0.3		87.5
30.0		4.91	277	12.43	8.100	0.2		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.105	0.001		0.000	100E00	800E00
10.0	134.0		0.270	0.004			000E00	
30.0	136.2		0.510	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	100E01	150E01
10.0		
30.0		

C-REF-NO 005
CONS. NO 051
COUNTRY 18
INSTITUTE 22

LAT 43-25-21N
LON 078-17-57W

YEAR 1966
MONTH 06
DAY 28
TIME 0400

NO. DEPTHS 05
SOUNDING 0068
BT SLIDE NO 046

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.02	254	10.92	8.800	0.2		87.0
10.0		13.05						
20.0		8.72	276	12.19	8.300	0.2		89.5
30.0		6.41						
50.0		4.26	279	12.16	8.000	0.4		90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5		0.105	0.001		0.000	100E00	000E00
10.0								
20.0	134.5		0.405	0.002		0.000	100E00	
30.0								
50.0	137.2		0.520	0.002		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	150E01
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005
CONS. NO 052
COUNTRY 18
INSTITUTE 22

LAT 43-25-30N
LON 078-29-12W

YEAR 1966
MONTH 06
DAY 28
TIME 0544

NO. DEPTHS 06
SOUNDING 0090
BT SLIDE NO 047

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.08	264	11.24	8.700	0.3		88.5
10.0		13.00						
20.0		8.37						
40.0		4.44	276	13.01	8.100	0.1		91.0
60.0		4.14						
80.0		3.84	278	12.70	8.100	0.4		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.110	0.001		0.000	000E00	000E00
10.0								
20.0								
40.0	134.7		0.510	0.002		0.000	000E00	
60.0								
80.0	134.7		0.520	0.001		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	100E01
10.0		
20.0		
40.0		
60.0		
80.0		

C-REF-NO 005
CONS. NO 053
COUNTRY 18
INSTITUTE 22

LAT 43-24-30N
LON 078-29-18W

YEAR 1966
MONTH 06
DAY 28
TIME 0618

NO. DEPTHS 05
SOUNDING 0058
BT SLIDE NO 048

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.82	265	12.38	8.800	0.2		87.0
10.0		17.25						
25.0		6.87	277	12.26	8.200	0.4		90.0
40.0		4.71						
50.0		4.13	278	11.25	8.000	0.2		90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.110	0.001		0.000	000E00	000E00
10.0								
25.0	135.0		0.445	0.003			000E00	
40.0								
50.0	134.7		0.045	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	900E00
10.0		
25.0		
40.0		
50.0		

C-REF-NO 005
CONS. NO 054
COUNTRY 18
INSTITUTE 22

LAT 43-23-30N
LON 078-29-15W

YEAR 1966
MONTH 06
DAY 28
TIME 0646

NO. DEPTHS 03
SOUNDING 0029
BT SLIDE NO 049

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.53	265	11.49	8.200	0.3		84.0
10.0		18.26	267	10.54	8.600	0.2		89.0
20.0		9.17	260	11.11	8.600	0.3		90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.8		0.100	0.001		0.001	500E00	400E00
10.0	132.5		0.115	0.003			400E00	
20.0	134.2		0.395	0.003			000E00	

DEPTH	SPC 20	SPC 35
1.0	800E00	800E00
10.0		
20.0		

C-REF-NO 005
CONS. NO 055
COUNTRY 18
INSTITUTE 22

LAT 43-23-03N
LON 078-29-18W

YEAR 1966
MONTH 06
DAY 28
TIME 0710

NO. DEPTHS 02
SOUNDING 0011
BT SLIDE NO 050

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.68	266	11.25	8.800	0.3		87.0
5.0		22.68	265	11.32	8.800	0.3		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.2		0.090	0.001		0.000	200E00	000E00
5.0	130.0		0.100	0.002			400E00	

DEPTH	SPC 20	SPC 35
1.0	200E01	350E01
5.0		

C-REF-NO 005
CONS. NO 056
COUNTRY 18
INSTITUTE 22

LAT 43-22-57N
LON 078-34-51W

YEAR 1966
MONTH 06
DAY 28
TIME 0758

NO. DEPTHS 03
SOUNDING 0029
BT SLIDE NO 051

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.62	265	11.40	8.800	0.2		86.0
10.0			274	10.93		0.3		89.0
20.0		6.76	276	11.54	8.200	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5		0.105	0.002		0.000	700E00	000E00
10.0	133.5		0.115	0.002			400E00	
20.0	131.0		0.435	0.003			100E00	

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

C-REF-NO 005
CONS. NO 057
COUNTRY 18
INSTITUTE 22

LAT 43-23-54N
LON 078-34-45W

YEAR 1966
MONTH 06
DAY 28
TIME 0842

NO. DEPTHS 05
SOUNDING 0064
BT SLIDE NO 052

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.01	265	11.72	8.800	0.4		86.0
10.0		15.45						
25.0		8.61	275	12.03	8.200	0.2		92.0
30.0		5.12						
45.0		4.12	279	12.83	8.100	0.4		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0		0.090	0.001		0.000	200E00	000E00
10.0								
25.0	134.8		0.425	0.002			000E00	
30.0								
45.0	139.8		0.515	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	150E01
10.0		
25.0		
30.0		
45.0		

C-REF-NO 005
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 43-24-51N
LON 078-34-51W

YEAR 1966
MONTH 06
DAY 28
TIME 0930

NO. DEPTHS 06
SOUNDING 0095
BT SLIDE NO 053

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.43	266	11.43	8.800	0.2		87.5
10.0		12.48						
20.0		7.69						
40.0		4.59	279	12.85	8.100	0.2		91.0
50.0		4.30						
75.0		3.90	277	12.74	8.100	0.5		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0		0.100	0.001		0.000	000E00	000E00
10.0								
20.0								
40.0	135.0		0.505	0.002		0.000	000E00	
50.0								
75.0	134.6		0.515	0.002		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	150E01
10.0		
20.0		
40.0		
50.0		
75.0		

C-REF-NO 005
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 43-23-24N
LON 078-43-06W

YEAR 1966
MONTH 06
DAY 28
TIME 1038

NO. DEPTHS 06
SOUNDING 0077
BT SLIDE NO 054

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	21.39	267	11.40	8.800	0.3		86.5
10.0		13.96						
20.0		7.48						
35.0		5.11	278	12.69	8.200	0.2		91.5
50.0		4.19						
69.0		3.99	280	12.50	8.100	0.7		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	134.0		0.115	0.001		0.000	400E00	400E00
10.0								
20.0								
35.0	134.7		0.495	0.003		0.000	000E00	
50.0								
69.0	132.0		0.515	0.002		0.000	100E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	400E01
10.0		
20.0		
35.0		
50.0		
69.0		

C-REF-NO 005
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 43-22-27N
LON 078-43-03W

YEAR 1966
MONTH 06
DAY 28
TIME 1116

NO. DEPTHS 05
SOUNDING 0048
BT SLIDE NO 055

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	22.39	268	11.32	8.700	0.3		88.5
10.0		15.51						
20.0		7.37	278	12.11	8.100	0.1		90.5
30.0		5.55						
40.0		4.79	278	12.16	8.100	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.100	0.002		0.000	500E00	000E00
10.0								
20.0	134.0		0.465	0.002			000E00	
30.0								
40.0	136.0		0.500	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	750E01
10.0		
20.0		
30.0		
40.0		

C-REF-NO 005
CONS. NO 061
COUNTRY 18
INSTITUTE 22

LAT 43-21-30N
LON 078-43-00W

YEAR 1966
MONTH 06
DAY 28
TIME 1150

NO. DEPTHS 03
SOUNDING 0019
BT SLIDE NO 056

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	23.02	270	11.06	8.800	0.5		87.5
8.0		17.04	275	8.80	8.200	0.4		90.0
15.0		10.33	276	10.22	8.100	0.2		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5		0.115	0.002		0.000	200E00	000E00
8.0	132.2		0.220	0.005			300E00	
15.0	132.2		0.115	0.004			000E00	

DEPTH	SPC 20	SPC 35
1.0	250E01	950E01
8.0		
15.0		

C-REF-NO 005	LAT 43-20-57N	YEAR 1966	NO. DEPTHS 02
CONS. NO 062	LON 078-43-09W	MONTH 06	SOUNDING 0011
COUNTRY 18		DAY 28	BT SLIDE NO 057
INSTITUTE 22		TIME 1225	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			271	11.13		0.5		89.0
8.0			273	9.72		0.5		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.090	0.001		0.001	400E00	000E00
8.0	131.7		0.120	0.002			100E00	

DEPTH	SPC 20	SPC 35
1.0	350EC1	250E01
8.0		

G-REF-NO 005	LAT 43-19-42N	YEAR 1966	NO. DEPTHS 02
CONS. NO 063	LON 078-50-12W	MONTH 06	SOUNDING 0009
COUNTRY 18		DAY 28	BT SLIDE NO 058
INSTITUTE 22		TIME 1315	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			276	11.24		0.4		87.5
5.0			259	10.25		0.7		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.8		0.120	0.002		0.000	400E00	800E00
5.0	131.5		0.105	0.002			700E00	

DEPTH	SPC 20	SPC 35
1.0	120E02	160E02
5.0		

C-REF-NO 005
CONS. NO 064
COUNTRY 18
INSTITUTE 22

LAT 43-20-09N
LON 078-50-00W

YEAR 1966
MONTH 06
DAY 28
TIME 1333

NO. DEPTHS 03
SOUNDING 0018
BT SLIDE NO 059

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.68	268	10.84	8.800	0.3		89.0
9.0		17.47	278	8.93	8.300	0.3		89.5
13.0		12.97	274	9.76	8.800	0.5		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.4		0.205	0.003		0.001	130E01	000E00
9.0	131.6		0.245	0.004			300E00	
13.0	134.8		0.275	0.003			200E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	350E01
9.0		
13.0		

C-REF-NO 005
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 43-21-12N
LON 078-50-09W

YEAR 1966
MONTH 06
DAY 28
TIME 1403

NO. DEPTHS 04
SOUNDING 0053
BT SLIDE NO 060

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.22	268	10.93	8.800	0.2		87.5
10.0		14.36						
20.0		7.06	278	11.92	8.200	0.4		91.5
40.0		4.38	278	12.11	8.100	0.9		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5		0.090	0.000			100E00	000E00
10.0								
20.0	134.8		0.455	0.002			400E00	
40.0	135.5		0.510	0.002			000E00	

DEPTH	SPC 20	SPC 35
1.0	100E01	150E01
10.0		
20.0		
40.0		

C-REF-NO 005 LAT 43-22-09N YEAR 1966 NO. DEPTHS 06
CONS. NO 066 LON 078-49-57W MONTH 06 SOUNDING 0077
COUNTRY 18 DAY 28 BT SLIDE NO 061
INSTITUTE 22 TIME 1441

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.23	267	11.03	8.800	0.1		88.0
10.0		13.34						
20.0		6.80						
30.0		5.12	279	12.75	8.200	0.2		92.5
50.0		4.17						
60.0		3.95	277	12.83	8.100	0.3		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5		0.095	0.000		0.000	000E00	500E00
10.0								
20.0								
30.0	135.5		0.495	0.002		0.000	000E00	
50.0								
60.0	135.0		0.510	0.001		0.000	000E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	100E01
10.0		
20.0		
30.0		
50.0		
60.0		

C-REF-NO 005	LAT 43-18-42N	YEAR 1966	NO. DEPTHS 02
CONS. NO 067	LON 079-03-24W	MONTH 06	SOUNDING 0009
COUNTRY 18		DAY 28	BT SLIDE NO
INSTITUTE 22		TIME 1625	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.12	275	11.00	8.800	0.5		88.0
4.0		22.32	276		8.700	0.9		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	131.9		0.090	0.002		0.001	400E00	730E01
4.0	132.0		0.075	0.002		0.000	700E00	

DEPTH	SPC 20	SPC 35
1.0	120E02	160E02
4.0		

C-REF-NO 005	LAT 43-17-48N	YEAR 1966	NO. DEPTHS 03
CONS. NO 068	LON 079-03-00W	MONTH 06	SOUNDING 0009
COUNTRY 18		DAY 28	BT SLIDE NO
INSTITUTE 22		TIME 1650	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			276	12.02	8.800	0.6		88.5
4.0			275	11.56		0.5		88.0
8.0			275	10.60	8.100	0.5		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	133.5		0.090	0.001				000E00
4.0	133.5		0.115	0.002				
8.0	132.3		0.120	0.002				

DEPTH	SPC 20	SPC 35
1.0	300E03	340E02
4.0		
8.0		

C-REF-NO 005
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 43-17-06N
LON 079-02-48W

YEAR 1966
MONTH 06
DAY 28
TIME 1710

NO. DEPTHS 03
SOUNDING 0007
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			275	11.59	8.700	0.5		87.0
3.0			272	11.25	8.800	0.6		86.0
6.0			273	10.28	8.600	0.3		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.8		0.090	0.001				000E00
3.0	132.4		0.120	0.002				
6.0	132.5		0.180	0.003				

DEPTH	SPC 20	SPC 35
1.0	500E01	200E02
3.0		
6.0		

C-REF-NO 005
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT 43-16-42N
LON 079-02-42W

YEAR 1966
MONTH 06
DAY 28
TIME 1725

NO. DEPTHS 02
SOUNDING 0003
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			277	11.33	8.600	0.6		89.0
2.0			273	10.79	8.700	0.5		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.6		0.080	0.001		0.000		000E00
2.0	130.9		0.125	0.003				

DEPTH	SPC 20	SPC 35
1.0	750E01	180E02
2.0		

C-REF-NO 005 LAT 43-16-42N YEAR 1966 NO. DEPTHS 02
CONS. NO 071 LON 079-03-42W MONTH 06 SOUNDING 0004
COUNTRY 18 DAY 28 BT SLIDE NO
INSTITUTE 22 TIME 1755

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			276	10.89		0.7		89.5
3.0			275	12.46		0.7		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.9		0.095	0.001				
3.0	133.3		0.215	0.005				

DEPTH	SPC 20	SPC 35
1.0		
3.0		

C-REF-NO 005
CONS. NO 072
COUNTRY 18
INSTITUTE 22

LAT 43-18-42N
LON 079-04-39W

YEAR 1966
MONTH 06
DAY 28
TIME 1757

NO. DEPTHS 02
SOUNDING 0011
BT SLIDE NO 062

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.60	258	10.46	8.700	0.6		88.0
4.0		22.97	279	10.26	8.500	0.6		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.2		0.100	0.002		0.001		000E00
4.0	132.0		0.250	0.005		0.000		

DEPTH	SPC 20	SPC 35
1.0	300E03	800E02
4.0		

C-REF-NO 005
CONS. NO 073
COUNTRY 18
INSTITUTE 22

LAT 43-17-00N
LON 079-03-54W

YEAR 1966
MONTH 06
DAY 28
TIME 1800

NO. DEPTHS 03
SOUNDING 0009
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			278	10.49	8.500	0.6		88.5
3.0			276	10.38	8.600	0.5		89.0
8.0			274	9.82	8.700	0.5		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.9		0.100	0.002		0.000		100E00
3.0	131.0		0.195	0.004				
8.0	132.5		0.225	0.005				

DEPTH	SPC 20	SPC 35
1.0	280E02	380E02
3.0		
8.0		

C-REF-NO 005
CONS. NO 074
COUNTRY 18
INSTITUTE 22

LAT 43-17-48N
LON 079-04-12W

YEAR 1966
MONTH 06
DAY 28
TIME 1840

NO. DEPTHS 02
SOUNDING 0006
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			264	12.66	8.800	0.6		89.0
5.0			260	9.99	8.700	0.5		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0		0.080	0.002				000E00
5.0	131.8		0.120	0.003				

DEPTH	SPC 20	SPC 35
1.0	410E02	700E02
5.0		

C-REF-NO 005
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 43-17-12N
LON 079-06-36W

YEAR 1966
MONTH 06
DAY 28
TIME 1910

NO. DEPTHS 03
SOUNDING 0006
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			286	8.08	8.100	0.7		89.5
2.0			281	8.03	8.400	0.5		89.5
5.0			281	8.03	8.400	0.6		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.1		0.230	0.007				300E00
2.0	132.3		0.110	0.007				
5.0	132.2		0.235	0.007				

DEPTH	SPC 20	SPC 35
1.0	350E03	100E03
2.0		
5.0		

C-REF-NO 005
CONS. NO 076
COUNTRY 18
INSTITUTE 22

LAT 43-18-06N
LON 079-07-24W

YEAR 1966
MONTH 06
DAY 28
TIME 1917

NO. DEPTHS 02
SOUNDING 0011
BT SLIDE NO 063

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.53	279	9.02	8.500	1.0		90.0
5.0		22.36	280	9.10	8.500	0.4		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.9		0.215	0.006		0.000		800E00
5.0	132.1		0.225	0.006		0.000		

DEPTH	SPC 20	SPC 35
1.0	400E03	100E03
5.0		

C-REF-NO 005	LAT 43-16-18N	YEAR 1966	NO. DEPTHS 03
CONS. NO 077	LON 079-05-48W	MONTH 06	SOUNDING 0004
COUNTRY 18		DAY 28	BT SLIDE NO
INSTITUTE 22		TIME 1930	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			289	8.91	8.000	0.6		89.5
2.0			281	8.85	8.300	0.6		89.5
3.0			280	8.88	8.500	0.6		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5		0.240	0.007		0.001		600E00
2.0	132.4		0.240	0.007				
3.0	132.6		0.240	0.007				

DEPTH	SPC 20	SPC 35
1.0	230E03	100E03
2.0		
3.0		

C-REF-NO 005 LAT 43-15-54N YEAR 1966 NO. DEPTHS 03
CONS. NO 078 LON 079-05-18W MONTH 06 SOUNDING 0006
COUNTRY 18 DAY 28 BT SLIDE NO
INSTITUTE 22 TIME 2000

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			284	8.94	8.200	0.6		89.5
2.0			280	8.93	8.500	0.6		89.5
5.0			281	9.01	8.400	0.6		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.1		0.245	0.006				
2.0	132.0		0.240	0.006				
5.0	132.5		0.250	0.007				

DEPTH	SPC 20	SPC 35
1.0	300E03	100E03
2.0		
5.0		

C-REF-NO 005	LAT 43-17-54N	YEAR 1966	NO. DEPTHS 03
CONS. NO 079	LON 079-09-00W	MONTH 06	SOUNDING 0016
COUNTRY 18		DAY 28	BT SLIDE NO 064
INSTITUTE 22		TIME 2056	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	23.30						
10.0		9.37						
15.0		4.77	289	11.80	8.200	0.3		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
15.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
15.0		

C-REF-NO 005	LAT 43-19-18N	YEAR 1966	NO. DEPTHS 06
CONS. NO 080	LON 079-10-54W	MONTH 06	SOUNDING 0084
COUNTRY 18		DAY 28	BT SLIDE NO 065
INSTITUTE 22		TIME 2144	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.5	23.48						
10.0		7.72						
20.0		5.26						
30.0		4.52						
50.0		4.14						
75.0		4.03	276	12.37	8.200	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0							200E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0	280E02	140E01

C-REF-NO 005
CONS. NO 081
COUNTRY 18
INSTITUTE 22

LAT 43-21-03N
LON 079-13-06W

YEAR 1966
MONTH 06
DAY 28
TIME 2234

NO. DEPTHS 07
SOUNDING 0103
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	22.87						
10.0		8.35						
20.0		6.49						
30.0		4.88						
50.0		4.12						
75.0		3.96						
95.0		3.92	279	12.62	7.900	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0								
95.0							300E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		
95.0	400E01	150E01

C-REF-NO 005	LAT 43-21-39N	YEAR 1966	NO. DEPTHS 07
CONS. NO 082	LON 079-09-21W	MONTH 06	SOUNDING 0102
COUNTRY 18		DAY 28	BT SLIDE NO 067
INSTITUTE 22		TIME 2319	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	23.18						
10.0		8.29						
20.0		5.70						
30.0		4.71						
50.0		4.32						
75.0		3.82						
95.0		3.81	279	12.61	8.000	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0								
95.0							200E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		
95.0	900E01	200E01

C-REF-NO 005
CONS. NO 083
COUNTRY 18
INSTITUTE 22

LAT 43-22-12N
LON 079-05-09W

YEAR 1966
MONTH 06
DAY 29
TIME 0005

NO. DEPTHS 06
SOUNDING 0102
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.57						
10.0		22.26						
30.0		5.32						
50.0		4.31						
75.0		3.97						
95.0		3.86	278	12.05	8.100	0.2		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
30.0								
50.0								
75.0								
95.0							000E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
30.0		
50.0		
75.0		
95.0	240E02	400E01

C-REF-NO 005	LAT 43-22-48N	YEAR 1966	NO. DEPTHS 06
CONS. NO 084	LON 079-01-03W	MONTH 06	SOUNDING 0101
COUNTRY 18		DAY 29	BT SLIDE NO 069
INSTITUTE 22		TIME 0055	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.19						
10.0		16.21						
20.0		6.38						
30.0		5.11						
50.0		4.44						
75.0		4.16						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		

C-REF-NO 005	LAT 43-21-30N	YEAR 1966	NO. DEPTHS 06
CONS. NO 085	LON 078-57-24W	MONTH 06	SOUNDING 0084
COUNTRY 18		DAY 29	BT SLIDE NO 070
INSTITUTE 22		TIME 0133	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.89						
10.0		15.59						
20.0		7.30						
30.0		5.38						
50.0		4.36						
75.0		4.07	282	12.53	8.000	0.4		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0							100E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0	120E02	200E01

C-REF-NO 005	LAT 43-23-12N	YEAR 1966	NO. DEPTHS 06
CONS. NO 086	LON 078-57-09W	MONTH 06	SOUNDING 0104
COUNTRY 18		DAY 29	BT SLIDE NO 071
INSTITUTE 22		TIME 0205	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.00						
10.0		10.04						
20.0		6.68						
30.0		5.49						
50.0		4.10						
75.0		3.91	261	12.77	8.100	0.3		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0							100E00	100E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0	110E02	250E01

C-REF-NO 005	LAT 43-23-57N	YEAR 1966	NO. DEPTHS 07
CONS. NO 087	LON 078-52-57W	MONTH 06	SOUNDING 0108
COUNTRY 18		DAY 29	BT SLIDE NO 072
INSTITUTE 22		TIME 0245	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.83						
10.0		9.95						
20.0		6.63						
30.0		5.18						
50.0		4.00						
75.0		3.91						
100.0		3.82						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0								
100.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		

C-REF-NO 005
CONS. NO 088
COUNTRY 16
INSTITUTE 22

LAT 43-22-51N
LON 078-53-03W

YEAR 1966
MONTH 06
DAY 29
TIME 0320

NO. DEPTHS 06
SOUNDING 0097
BT SLIDE NO 073

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.39						
10.0		11.05						
20.0		6.49						
30.0		5.19						
50.0		4.44						
75.0		4.07	255	12.56	8.200	0.3		

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								
75.0							100E00	000E00

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

C-REF-NO 005
CONS. NO 089
COUNTRY 18
INSTITUTE 22

LAT 43-17-12N
LON 076-58-30W

YEAR 1966
MONTH 06
DAY 29
TIME 1320

NO. DEPTHS 03
SOUNDING 0009
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			271	11.96	8.700			88.5
5.0			270	11.64	8.800			88.5
8.0			271	11.24	8.700			89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5					0.000	700E00	000E00
5.0	131.8						700E00	
8.0	134.1						500E00	

DEPTH	SPC 20	SPC 35
1.0		200E01
5.0		
8.0		

C-REF-NO 005	LAT 43-21-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 090	LON 076-43-42W	MONTH 06	SOUNDING 0007
COUNTRY 18		DAY 29	BT SLIDE NO
INSTITUTE 22		TIME 1530	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			271	11.48	8.500			88.5
2.0			270	11.99	8.700			89.0
6.0			270	12.11	8.700			88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.2						900E00	000E00
2.0	131.7						110E01	
6.0	131.0						800E00	

DEPTH	SPC 20	SPC 35
1.0		150E01
2.0		
6.0		

C-REF-NO 005	LAT 43-27-48N	YEAR 1966	NO. DEPTHS 03
CONS. NO 091	LON 076-31-18W	MONTH 06	SOUNDING 0007
COUNTRY 18		DAY 29	BT SLIDE NO
INSTITUTE 22		TIME 1600	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			276	12.29	8.600	0.3		89.0
2.0			270	11.48	8.800	0.3		88.0
6.0			269	12.11	8.800	0.2		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5						400E00	000E00
2.0	131.2						700E00	
6.0	132.0						200E00	

DEPTH	SPC 20	SPC 35
1.0		500E00
2.0		
6.0		

C-REF-NO 005
CONS. NO 092
COUNTRY 18
INSTITUTE 22

LAT 43-27-18N
LON 076-31-12W

YEAR 1966
MONTH 06
DAY 29
TIME 1635

NO. DEPTHS 03
SOUNDING 0007
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			420	10.97	8.000	0.5		90.0
2.0			343	10.92	8.500	0.3		91.0
6.0			278	11.96	8.700	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								400E00
2.0								
6.0	134.9							

DEPTH	SPC 20	SPC 35
1.0		170E02
2.0		
6.0		

C-REF-NO 005 LAT 43-33-48N YEAR 1966 NO. DEPTHS 05
CONS. NO 093 LON 076-25-24W MONTH 06 SOUNDING 0066
COUNTRY 18 DAY 29 BT SLIDE NO 091
INSTITUTE 22 TIME 1814

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.16						
10.0		15.22						
20.0		7.30						
30.0		6.17						
50.0		5.02						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005	LAT 43-31-48N	YEAR 1966	NO. DEPTHS 02
CONS. NO 094	LON 076-16-24W	MONTH 06	SOUNDING 0005
COUNTRY 18		DAY 29	BT SLIDE NO
INSTITUTE 22		TIME 1830	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
2.0			290	12.35	8.700	0.5		89.0
4.0			270	12.59		0.3		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
2.0	135.6						200E00	000E00
4.0	136.1						600E00	

DEPTH	SPC 20	SPC 35
2.0		140E02
4.0		

C-REF-NO 005
CONS. NO 095
COUNTRY 18
INSTITUTE 22

LAT 43-30-36N
LON 076-27-06W

YEAR 1966
MONTH 06
DAY 29
TIME 1900

NO. DEPTHS 03
SOUNDING 0010
BT SLIDE NO

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0			274		8.600	0.5		89.0
4.0			271	12.03		0.4		89.0
8.0			271	12.19		0.4		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5					0.000	100E00	000E00
4.0	131.9						130E01	
8.0	132.4						700E00	

DEPTH	SPC 20	SPC 35
1.0		650E01
4.0		
8.0		

C-REF-NO 005	LAT 43-33-48N	YEAR 1966	NO. DEPTHS 05
CONS. NO 096	LON 076-25-24W	MONTH 06	SOUNDING 0066
COUNTRY 18		DAY 29	BT SLIDE NO 093
INSTITUTE 22		TIME 1920	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.35						
10.0		15.27						
20.0		7.65						
30.0		6.10						
50.0		5.05						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005
CONS. NO 097
COUNTRY 18
INSTITUTE 22

LAT 43-33-48N
LON 076-25-24W

YEAR 1966
MONTH 06
DAY 29
TIME 2012

NO. DEPTHS 05
SOUNDING 0066
BT SLIDE NO 094

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.11						
10.0	5.5	8.64						
20.0		7.63						
30.0		6.11						
50.0		5.08						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005
CONS. NO 098
COUNTRY 18
INSTITUTE 22

LAT 43-33-54N
LON 076-25-12W

YEAR 1966
MONTH 06
DAY 29
TIME 2109

NO. DEPTHS 05
SOUNDING 0068
BT SLIDE NO 096

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.5	21.59						
10.0		13.44						
20.0		7.46						
30.0		5.84						
50.0		4.81						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005	LAT 43-33-48N	YEAR 1966	NO. DEPTHS 05
CONS. NO 099	LON 076-25-12W	MONTH 06	SOUNDING 0068
COUNTRY 18		DAY 29	BT SLIDE NO 098
INSTITUTE 22		TIME 2213	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.42						
10.0		14.71						
20.0		7.65						
30.0		6.05						
50.0		4.80						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005	LAT 43-33-54N	YEAR 1966	NO. DEPTHS 05
CONS. NO 100	LON 076-25-12W	MONTH 06	SOUNDING 0068
COUNTRY 18		DAY 29	BT SLIDE NO 100
INSTITUTE 22		TIME 2315	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.24						
10.0		14.85						
20.0		7.76						
30.0		6.59						
50.0		4.78						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005 LAT 43-33-54N YEAR 1966 NO. DEPTHS 05
CONS. NO 101 LON 076-25-12W MONTH 06 SOUNDING 0068
COUNTRY 18 DAY 30 BT SLIDE NO 102
INSTITUTE 22 TIME 0015

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.19						
10.0		14.83						
20.0		8.03						
30.0		6.48						
50.0		4.74						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005	LAT 43-33-54N	YEAR 1966	NO. DEPTHS 05
CONS. NO 102	LON 076-25-12W	MONTH 06	SOUNDING 0068
COUNTRY 18		DAY 30	BT SLIDE NO 104
INSTITUTE 22		TIME 0110	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.09						
10.0		13.58						
20.0		7.55						
30.0		6.21						
50.0		4.69						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								
50.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 103	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 105
INSTITUTE 22		TIME 0310	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.76						
10.0		16.40						
20.0		12.16						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 104	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 106
INSTITUTE 22		TIME 0423	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.57						
10.0		18.01						
20.0		11.48						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 105	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 107
INSTITUTE 22		TIME 0513	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.47						
10.0		17.97						
20.0		11.50						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 106	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 108
INSTITUTE 22		TIME 0614	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.27						
10.0		16.94						
20.0		11.24						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005 LAT 43-36-42N YEAR 1966 NO. DEPTHS 03
CONS. NO 107 LON 076-17-00W MONTH 06 SOUNDING 0037
COUNTRY 18 DAY 30 BT SLIDE NO 109
INSTITUTE 22 TIME 0712

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.09						
10.0		17.79						
20.0		11.72						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005
CONS. NO 108
COUNTRY 18
INSTITUTE 22

LAT 43-36-42N
LON 076-17-00W

YEAR 1966
MONTH 06
DAY 30
TIME 0819

NO. DEPTHS 04
SOUNDING 0037
BT SLIDE NO 110

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.18						
10.0		17.44						
20.0		11.72						
30.0		7.74						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 005
CONS. NO 109
COUNTRY 18
INSTITUTE 22

LAT 43-36-42N
LON 076-17-00W

YEAR 1966
MONTH 06
DAY 30
TIME 0914

NO. DEPTHS 04
SOUNDING 0037
BT SLIDE NO 111

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.08						
10.0		17.24						
20.0		10.64						
30.0		7.02						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 04
CONS. NO 110	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 112
INSTITUTE 22		TIME 1013	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.13						
10.0		16.96						
20.0		11.00						
30.0		7.04						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 04
CONS. NO 111	LON 076-17-00W	MONTH 06	SOUNDING 0037
COUNTRY 18		DAY 30	BT SLIDE NO 113
INSTITUTE 22		TIME 1114	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.24						
10.0		16.88						
20.0		11.15						
30.0		7.55						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								
30.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 112	LON 076-17-00W	MONTH 06	SOUNDING 0036
COUNTRY 18		DAY 30	BT SLIDE NO 114
INSTITUTE 22		TIME 1215	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.56						
10.0		15.95						
20.0		10.49						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 005	LAT 43-36-42N	YEAR 1966	NO. DEPTHS 03
CONS. NO 113	LON 076-17-06W	MONTH 06	SOUNDING 0036
COUNTRY 18		DAY 30	BT SLIDE NO 115
INSTITUTE 22		TIME 1310	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.83						
10.0		17.04						
20.0		10.50						

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0								
10.0								
20.0								

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		