



1966

LIMNOLOGICAL DATA REPORT NO. 7

LAKE ONTARIO

CRUISE 66 - 9, JULY 26 - 29

CRUISE 66 - 10, AUGUST 2 - 7

PUBLISHED BY
CANADIAN OCEANOGRAPHIC DATA CENTRE

CANADA CENTRE FOR INLAND WATERS

BURLINGTON • ONTARIO

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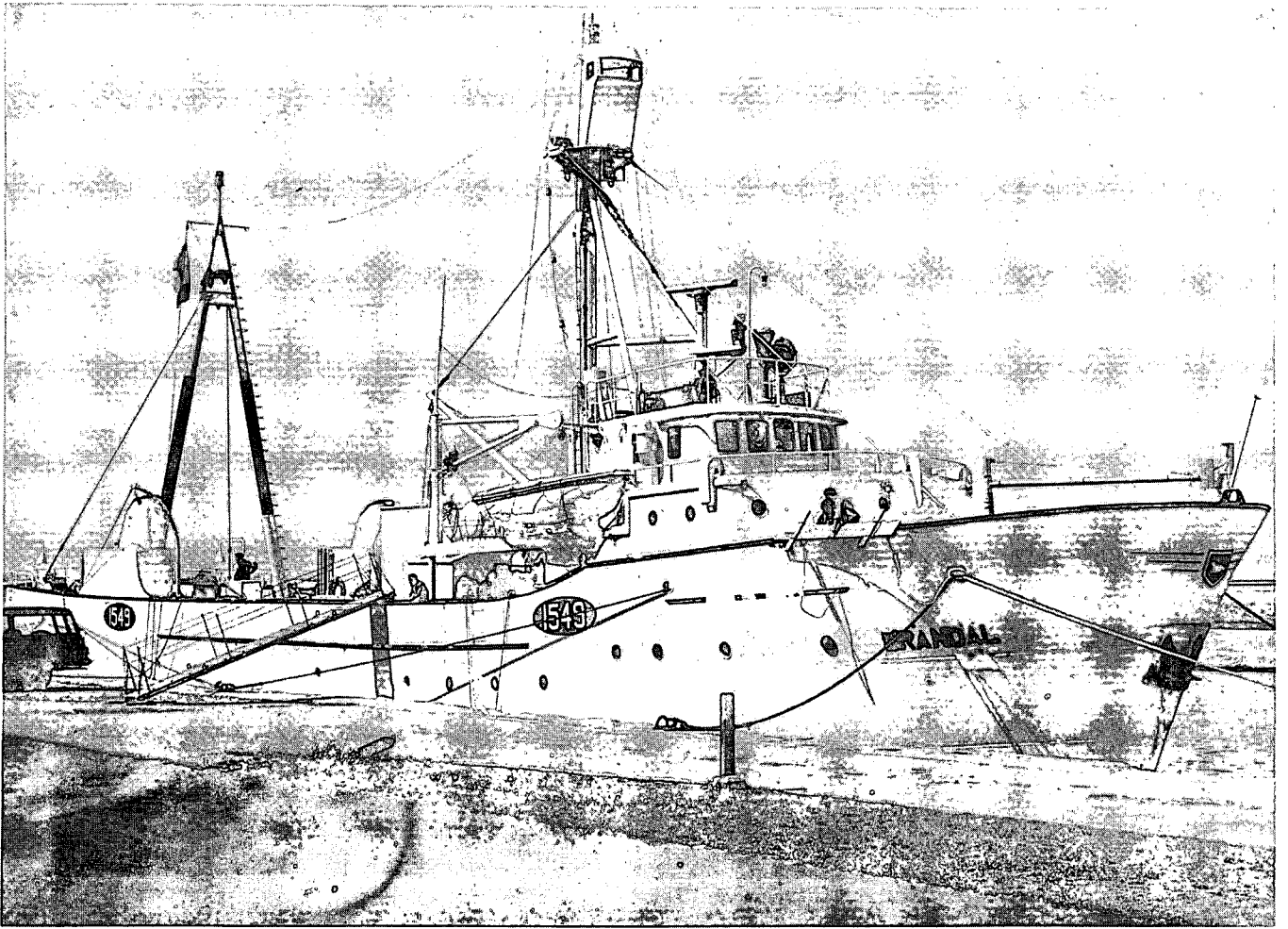
DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

CANADA



M. V. "Brandal"



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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.

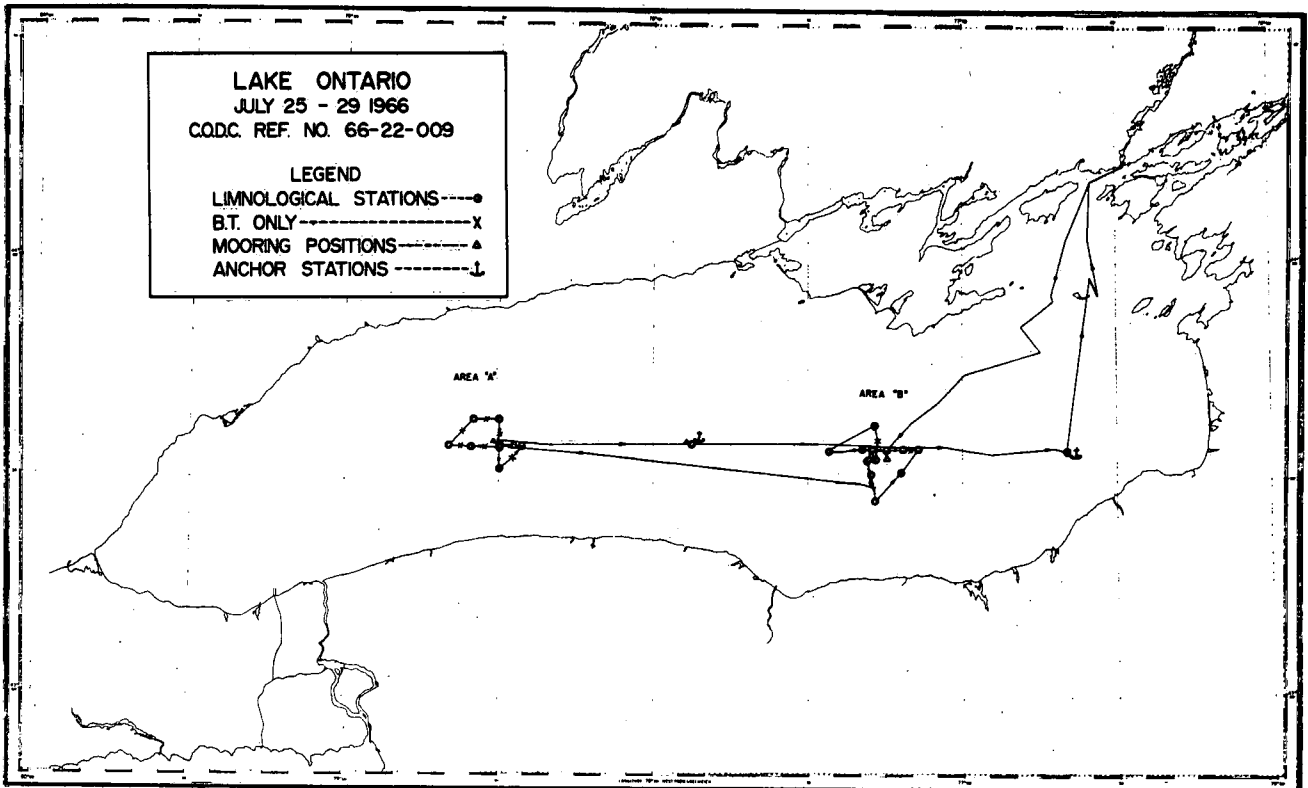
The Canadian Government's program developed in response to a request directed to the International Joint Commission by the Governments of Canada and the United States, that information relating to pollution of Lake Ontario, Lake Erie, and the international section of the St. Lawrence River be gathered.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

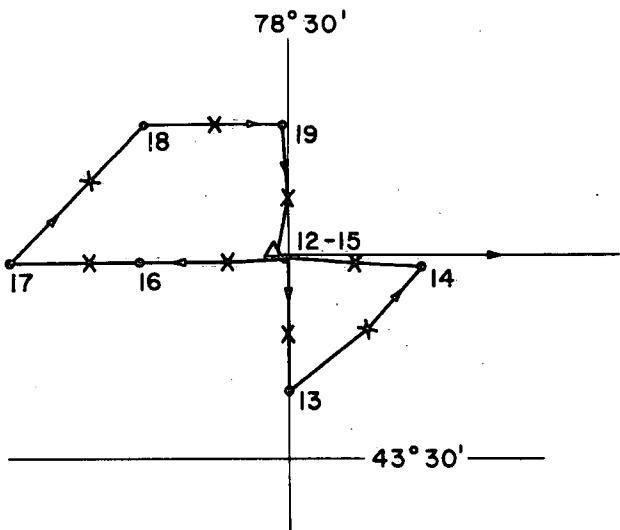
LAKE ONTARIO
 JULY 25 - 29 1966
 C.O.D.C. REF. NO. 66-22-009

LEGEND
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 MOORING POSITIONS ---▲---
 ANCHOR STATIONS ---↓---

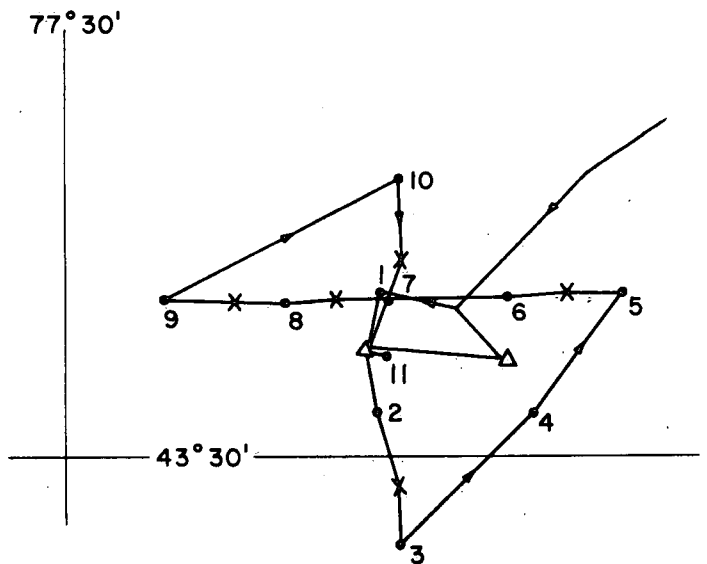


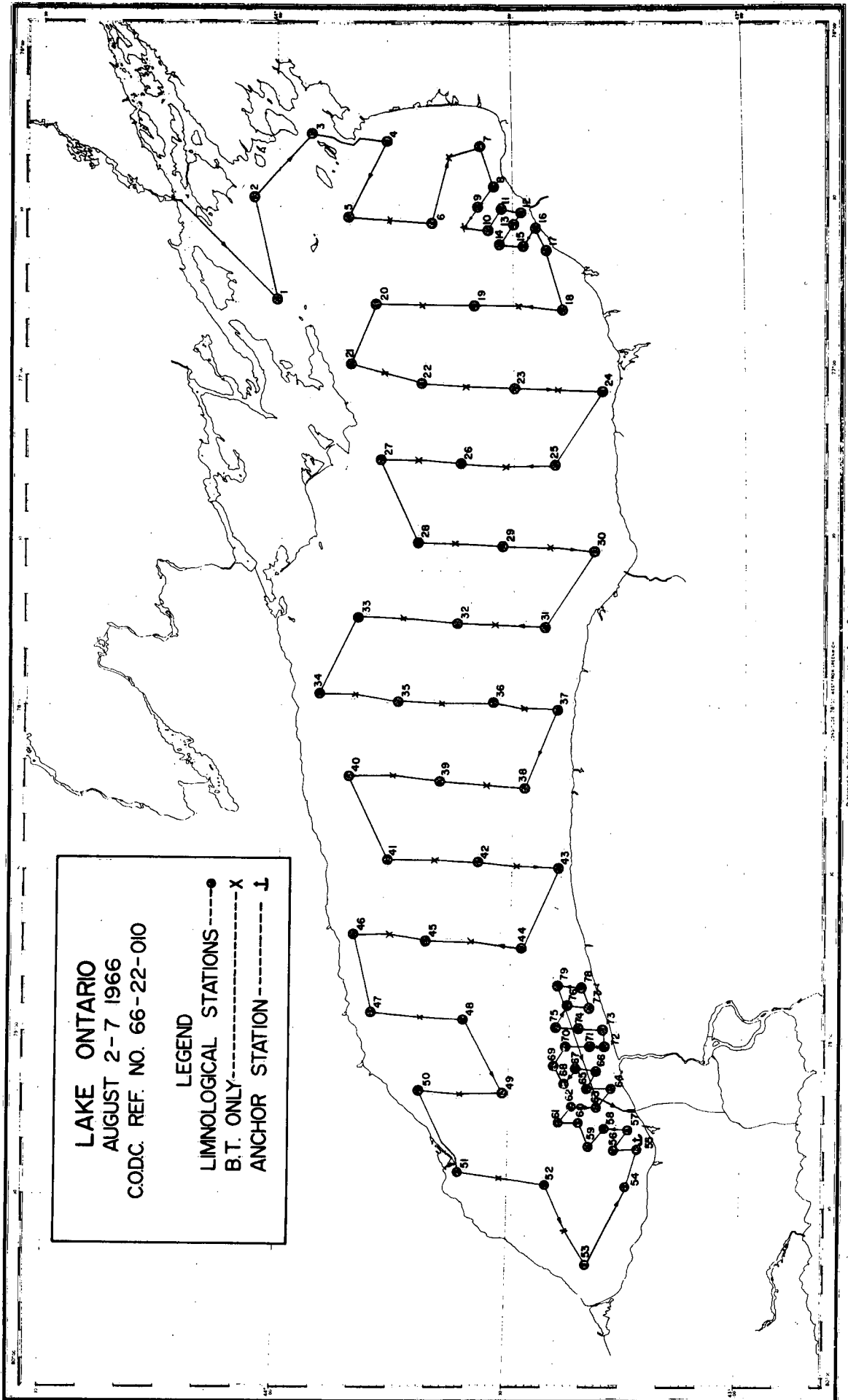
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AREA "A"



AREA "B"





LAKE ONTARIO
AUGUST 2-7 1966
CODC. REF. NO. 66-22-010

LEGEND
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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	Aug. 2	Aug. 8	Aug. 15	Aug. 29	Sept. 6	Sept. 12	Sept. 20	Sept. 26	Oct. 1
-July 29	-Aug. 7	-Aug. 14	-Aug. 19	-Sept. 2	-Sept. 11	-Sept. 16	-Sept. 24	-Sept. 29	-Oct. 3
Physical Ontario Brandal 62 105	Monitor Ontario Brandal 79 106	Monitor Erie Brandal 105 97	Monitor Ontario Brandal 69 96	Monitor Ontario Brandal 47 70	Geology Ontario Brandal 92 92	Monitor Ontario Brandal 54 81	Coastal Ontario Brandal 109 109	Monitor Ontario Brandal 47 72	Physical Ontario Brandal 45 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	
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	X	X	X	X		X	X	X	
	X	X	X	X		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	050
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 O2	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	226
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 ₆ H ₅ OH/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

* Exponential Notation

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

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

Note: For some parameters, the analytical methods listed in the Star System manual (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.

<u>pH</u>	<u>H⁺</u>	
7.0	100. X 10 ⁻⁹	gm atoms/liter
7.2	63. X 10 ⁻⁹	gm atoms/liter
7.5	32. X 10 ⁻⁹	gm atoms/liter
8.0	10. X 10 ⁻⁹	gm atoms/liter
8.2	6.3 X 10 ⁻⁹	gm atoms/liter
8.5	3.2 X 10 ⁻⁹	gm atoms/liter
9.0	1.0 X 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 CaCO₃/liter. The constituents reacting with the hydrogen ion during the alkalinity measurement were assumed to be CO₃⁻², and an equivalent amount of Ca⁺⁺ was arbitrarily assumed to be present. Actually most of the alkalinity in Great Lakes waters is HCO₃⁻. Conversion factor for alkalinity: 1 mg CaCO₃/liter = 1.219 mg HCO₃⁻/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 CaCO₃/L, used in Data Reports Nos. 1 to 12, gives information for (Ca⁺⁺ + Mg⁺⁺), but not for Ca⁺⁺ or CO₃⁻². Conversion factor for hardness: 1 mg CaCO₃/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).

(NO₃ + NO₂) 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 2½ times the values found on cruise 66-12 and subsequent cruises in 1966 and 1967. The (NO₃ + NO₂) results for cruises 5, 6, 8 and 10 are probably in error and have been omitted from these final Data Reports. The (NO₃ + NO₂) 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 (NO₃ + NO₂) 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 (NO₃ + NO₂) 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

- American Public Health Association. 1965. American Water Works Association, and Water Pollution Control Federation. Standard Methods for the Examination of Water and Wastewater, Twelfth Edition. 769 pp.
- Dobson, H.H. 1967. Principal ions and dissolved oxygen in Lake Ontario. Proceedings, Tenth Conference on Great Lakes Research, pp. 337-356.
- Glennie, C.J., and T.M. MacLeod. 1967. The Star system for storage and retrieval of scientific data. Canadian Oceanographic Data Centre, Ottawa. 43 pp.
- I.J.C. agencies. 1966. Working Committee on Methodology. A digest of analytical methods employed by laboratories associated with International Joint Commission Research on the Great Lakes. 135 pp.
- I.J.C. agencies. 1968. Working Committee on Methodology. Revised analytical methods employed by laboratories associated with International Joint Commission Research on the Great Lakes. 89 pp.
- U.S. Hydrographic Office. 1955. Publ. No. 607. Instruction Manual for Oceanographic Observations. Second Edition, 211 pp.

CRUISE 66-9, LAKE ONTARIO

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

LAT 43-34-36N
LCN 077-17-21W

YEAR 1966
MONTH 07
DAY 26
TIME 0031

NO. DEPTHS 08
SOUNDING 0163
BT SLIDE NO 001

DEPTH	SECCHI	TEMP
1.0		22.24
10.0		18.32
20.0		12.10
30.0		5.46
50.0		4.44
75.0		4.14
100.0		4.02
150.0		3.91

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

LAT 43-31-15N
LCN 077-17-18W

YEAR 1966
MONTH 07
DAY 26
TIME 0150

NO. DEPTHS 08
SOUNDING 0186
BT SLIDE NO 003

DEPTH	SECCHI	TEMP
1.0		21.94
10.0		20.12
20.0		13.58
30.0		6.98
50.0		4.76
75.0		4.05
100.0		3.97
150.0		3.84

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

LAT 43-27-24N
 LON 077-16-36W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 0319

NO. DEPTHS 09
 SOUNDING 0208
 BT SLIDE NO 005

DEPTH	SECCHI	TEMP
1.0		21.77
10.0		20.54
20.0		18.08
30.0		6.71
50.0		4.98
75.0		4.12
100.0		3.95
150.0		3.85
200.0		3.76

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

LAT 43-31-24N
 LON 077-11-27W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 0424

NO. DEPTHS 08
 SOUNDING 0174
 BT SLIDE NO 006

DEPTH	SECCHI	TEMP
1.0		20.96
10.0		19.68
20.0		14.87
30.0		4.89
50.0		3.97
75.0		3.92
100.0		3.85
150.0		3.75

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

LAT 43-34-54N
 LON 077-07-51W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 0530

NO. DEPTHS 08
 SOUNDING 0170
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP
1.0		21.79
10.0		20.06
20.0		13.38
30.0		4.89
50.0		4.26
75.0		4.06
100.0		3.98
149.0		3.88

C-REF-NO 009
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-36N
 LON 077-12-12W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 0630

NO. DEPTHS 08
 SOUNDING 0157
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP
1.0		21.35
10.0		19.93
20.0		13.40
30.0		5.95
50.0		4.48
75.0		4.15
100.0		4.06
149.0		3.89

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

LAT 43-34-36N
LON 077-16-57W

YEAR 1966
MONTH 07
DAY 26
TIME 0742

NO. DEPTHS 08
SOUNDING 0159
BT SLIDE NO 011

DEPTH	SECCHI	TEMP
1.0		20.57
10.0		20.53
19.0		13.24
29.0		5.94
49.0		4.67
73.0		4.20
97.0		4.08
146.0		3.91

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

LAT 43-34-24N
LON 077-21-06W

YEAR 1966
MONTH 07
DAY 26
TIME 0851

NO. DEPTHS 08
SOUNDING 0160
BT SLIDE NO 013

DEPTH	SECCHI	TEMP
1.0		20.69
10.0		20.16
20.0		7.79
30.0		6.97
50.0		4.84
75.0		4.13
100.0		3.99
150.0		3.86

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

LAT 43-34-45N
 LON 077-25-54W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 1014

NO. DEPTHS 07
 SOUNDING 0153
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP
1.0		20.96
10.0		20.87
20.0		18.49
30.0		13.85
50.0		6.11
75.0		4.33
100.0		4.10

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

LAT 43-38-00N
 LON 077-16-57W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 1147

NO. DEPTHS 07
 SOUNDING 0132
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP
1.0		20.36
10.0		20.26
20.0		7.08
30.0		8.30
50.0		5.14
75.0		4.37
100.0		4.09

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

LAT 43-35-42N
 LON 077-16-30W

YEAR 1966
 MONTH 07
 DAY 26
 TIME 1330

NO. DEPTHS 08
 SOUNDING 0163
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP
1.0	3.0	20.70
9.0		19.98
18.0		10.64
27.0		5.55
45.0		4.40
68.0		4.09
91.0		4.00
136.0		3.86

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

LAT 43-34-48N
 LON 078-30-00W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 0218

NO. DEPTHS 08
 SOUNDING 0170
 BT SLIDE NO 019

DEPTH	SECCHI	TEMP
1.0		16.80
10.0		11.47
20.0		9.87
30.0		7.00
49.0		3.95
74.0		3.90
98.0		3.85
148.0		3.77

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

LAT 43-31-24N
LON 078-30-00W

YEAR 1966
MONTH 07
DAY 27
TIME 0325

NO. DEPTHS 07
SOUNDING 0174
BT SLIDE NO 021

DEPTH	SECCHI	TEMP
1.0		19.78
10.0		15.32
30.0		4.56
50.0		3.98
75.0		3.89
100.0		3.85
150.0		3.73

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

LAT 43-34-48N
LON 078-25-30W

YEAR 1966
MONTH 07
DAY 27
TIME 0436

NO. DEPTHS 08
SOUNDING 0172
BT SLIDE NO 023

DEPTH	SECCHI	TEMP
1.0		16.05
10.0		10.53
20.0		5.29
30.0		4.47
50.0		3.91
75.0		3.85
100.0		3.83
150.0		3.71

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

LAT 43-34-48N
 LON 078-30-00W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 0534

NO. DEPTHS 08
 SOUNDING 0168
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP
1.0		16.48
10.0		9.54
20.0		5.38
30.0		4.34
50.0		3.97
75.0		3.91
100.0		3.85
150.0		3.74

C-REF-NO 009
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 078-35-00W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 0640

NO. DEPTHS 08
 SOUNDING 0165
 BT SLIDE NO 027

DEPTH	SECCHI	TEMP
1.0		16.99
10.0		11.08
20.0		6.16
30.0		4.30
50.0		4.03
75.0		3.86
100.0		3.81
150.0		3.71

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

LAT 43-34-48N
 LON 078-39-15W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 0757

NO. DEPTHS 08
 SOUNDING 0161
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP
1.0		16.79
10.0		10.94
20.0		6.70
30.0		4.92
50.0		4.00
75.0		3.89
100.0		3.86
150.0		3.76

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

LAT 43-38-12N
 LON 078-35-00W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 0905

NO. DEPTHS 07
 SOUNDING 0137
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP
1.0		16.28
10.0		8.86
20.0		6.21
30.0		5.25
50.0		4.35
75.0		3.88
100.0		3.86

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

LAT 43-38-15N
 LON 078-30-03W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 1002

NO. DEPTHS 07
 SOUNDING 0143
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP
1.0		16.11
10.0		10.54
20.0		6.14
30.0		4.79
50.0		3.97
75.0		3.83
100.0		3.80

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 1723

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP
1.0		18.30
10.0		12.59
20.0		10.00
30.0		6.20
50.0		4.15
75.0		3.88
100.0		3.88
150.0		3.80

C-REF-NO 009
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 1813

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP
1.0		18.37
10.0		14.48
20.0		9.46
30.0		5.88
50.0		4.10
75.0		3.90
100.0		3.88
150.0		3.80

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 1846

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 038

DEPTH	SECCHI	TEMP
1.0		18.35
10.0		14.23
20.0		9.25
30.0		5.83
50.0		4.18
75.0		3.90
100.0		3.88
150.0		3.80

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

LAT 43-35-06N
LON 077-51-42W

YEAR 1966
MONTH 07
DAY 27
TIME 2018

NO. DEPTHS 08
SOUNDING 0181
BT SLIDE NO 040

DEPTH	SECCHI	TEMP
1.0		18.46
10.0		13.54
20.0		8.64
30.0		5.10
50.0		4.06
75.0		3.87
100.0		3.86
150.0		3.81

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

LAT 43-35-06N
LON 077-51-42W

YEAR 1966
MONTH 07
DAY 27
TIME 2129

NO. DEPTHS 08
SOUNDING 0181
BT SLIDE NO 042

DEPTH	SECCHI	TEMP
1.0		18.53
10.0		12.68
20.0		7.66
30.0		4.88
50.0		4.11
75.0		3.89
100.0		3.86
150.0		3.72

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 2229

NO. DEPTHS 08
 SOUNDING 0182
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP
1.0		18.63
10.0		17.22
20.0		7.38
30.0		5.25
50.0		4.28
75.0		3.89
100.0		3.87
150.0		3.79

C-REF-NO 009
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 27
 TIME 2320

NO. DEPTHS 08
 SOUNDING 0182
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP
1.0		18.56
10.0		16.66
20.0		7.17
30.0		5.17
50.0		4.23
75.0		3.89
100.0		3.88
150.0		3.79

C-REF-NO 009	LAT 43-35-06N	YEAR 1966	NO. DEPTHS 08
CONS. NO 027	LGN 077-51-42W	MONTH 07	SOUNDING 0181
COUNTRY 18		DAY 28	BT SLIDE NO 047
INSTITUTE 22		TIME 0030	

DEPTH	SECCHI	TEMP
1.0		18.45
10.0		15.15
20.0		7.35
30.0		5.55
50.0		4.14
75.0		3.91
100.0		3.87
150.0		3.80

C-REF-NO 009	LAT 43-35-06N	YEAR 1966	NO. DEPTHS 08
CONS. NO 028	LON 077-51-42W	MONTH 07	SOUNDING 0181
COUNTRY 18		DAY 28	BT SLIDE NO 049
INSTITUTE 22		TIME 0116	

DEPTH	SECCHI	TEMP
1.0		18.40
10.0		15.35
20.0		7.71
30.0		5.50
50.0		4.28
75.0		3.89
100.0		3.87
150.0		3.83

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

LAT 43-35-06N
 LON 077-51-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 0220

NO. DEPTHS 08
 SOUNDING 0183
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP
1.0		18.17
10.0		15.45
20.0		7.74
30.0		5.64
50.0		4.32
75.0		3.88
100.0		3.87
150.0		3.81

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

LAT 43-35-06N
 LON 077-51-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 0320

NO. DEPTHS 08
 SOUNDING 0176
 BT SLIDE NO 053

DEPTH	SECCHI	TEMP
1.0		18.13
10.0		14.56
20.0		8.45
30.0		5.75
50.0		4.23
75.0		3.92
100.0		3.87
150.0		3.83

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

LAT 43-35-06N
LON 077-51-48W

YEAR 1966
MONTH 07
DAY 28
TIME 0428

NO. DEPTHS 08
SOUNDING 0183
BT SLIDE NO 055

DEPTH	SECCHI	TEMP
1.0		18.00
10.0		14.02
20.0		9.04
30.0		6.13
50.0		4.32
75.0		3.96
100.0		3.92
150.0		3.82

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

LAT 43-35-06N
LON 077-51-42W

YEAR 1966
MONTH 07
DAY 28
TIME 0523

NO. DEPTHS 08
SOUNDING 0183
BT SLIDE NO 057

DEPTH	SECCHI	TEMP
1.0		18.09
10.0		11.83
20.0		8.29
30.0		6.01
50.0		4.26
75.0		3.84
100.0		3.85
150.0		3.86

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 0621

NO. DEPTHS 08
 SOUNDING 0183
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP
1.0		18.40
10.0		11.44
20.0		8.00
30.0		6.29
50.0		4.17
75.0		3.86
100.0		3.86
150.0		3.79

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 0654

NO. DEPTHS 08
 SOUNDING 0183
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP
1.0		18.43
10.0		13.74
20.0		8.85
30.0		6.07
50.0		4.12
75.0		3.88
100.0		3.87
150.0		3.76

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

LAT 43-35-06N
LON 077-51-42W

YEAR 1966
MONTH 07
DAY 28
TIME 0821

NO. DEPTHS 08
SOUNDING 0183
BT SLIDE NO 062

DEPTH	SECCHI	TEMP
1.0		18.58
10.0		14.44
20.0		9.65
30.0		6.35
50.0		4.05
75.0		3.85
100.0		3.81
150.0		3.76

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

LAT 43-35-06N
LON 077-51-42W

YEAR 1966
MONTH 07
DAY 28
TIME 0916

NO. DEPTHS 08
SOUNDING 0181
BT SLIDE NO 064

DEPTH	SECCHI	TEMP
1.0		18.65
10.0		13.32
20.0		9.79
30.0		6.50
50.0		4.16
75.0		3.88
100.0		3.82
150.0		3.75

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 1031

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 066

DEPTH	SECCHI	TEMP
1.0		18.68
10.0		15.38
20.0		9.78
30.0		6.79
50.0		4.17
75.0		3.94
100.0		3.90
150.0		3.76

C-REF-NO 009
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 1054

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 067

DEPTH	SECCHI	TEMP
1.0		18.66
10.0		14.94
20.0		9.55
30.0		6.68
50.0		4.20
75.0		3.91
100.0		3.94
150.0		3.77

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 1117

NO. DEPTHS 08
 SOUNDING 0181
 BT SLIDE NO 068

DEPTH	SECCHI	TEMP
1.0		18.65
10.0		13.79
20.0		9.67
30.0		6.28
50.0		4.16
75.0		3.87
100.0		3.89
150.0		3.76

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

LAT 43-35-06N
 LON 077-51-42W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 1223

NO. DEPTHS 08
 SOUNDING 0180
 BT SLIDE NO 070

DEPTH	SECCHI	TEMP
1.0		18.55
10.0		13.12
20.0		9.54
30.0		5.33
50.0		4.14
75.0		3.90
100.0		3.86
150.0		3.75

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 1937

NO. DEPTHS 08
 SOUNDING 0196
 BT SLIDE NO 071

DEPTH	SECCHI	TEMP
1.0	4.0	21.09
10.0		20.24
20.0		5.97
30.0		4.93
50.0		4.43
75.0		3.99
100.0		3.85
150.0		3.77

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 2017

NO. DEPTHS 08
 SOUNDING 0196
 BT SLIDE NO 072

DEPTH	SECCHI	TEMP
1.0		21.17
10.0		21.01
20.0		6.36
30.0		4.96
50.0		4.44
75.0		4.05
100.0		3.86
150.0		3.76

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

LAT 43-34-48N
LCN 076-38-48W

YEAR 1966
MONTH 07
DAY 28
TIME 2131

NO. DEPTHS 08
SOUNDING 0196
BT SLIDE NO 074

DEPTH	SECCHI	TEMP
1.0		21.26
10.0		20.56
20.0		8.61
30.0		4.97
50.0		4.40
75.0		3.99
100.0		3.85
150.0		3.75

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

LAT 43-34-48N
LCN 076-38-48W

YEAR 1966
MONTH 07
DAY 28
TIME 2215

NO. DEPTHS 08
SOUNDING 0198
BT SLIDE NO 076

DEPTH	SECCHI	TEMP
1.0		21.31
10.0		20.53
20.0		6.59
30.0		4.88
50.0		4.42
75.0		3.93
100.0		3.86
150.0		3.78

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 2242

NO. DEPTHS 08
 SOUNDING 0198
 BT SLIDE NO 077

DEPTH	SECCHI	TEMP
1.0		21.34
10.0		20.59
20.0		8.35
30.0		4.94
50.0		4.41
75.0		3.95
100.0		3.86
150.0		3.79

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 28
 TIME 2316

NO. DEPTHS 08
 SOUNDING 0198
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP
1.0		21.36
10.0		20.46
20.0		7.00
30.0		4.94
50.0		4.40
75.0		3.92
100.0		3.86
150.0		3.77

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 0025

NO. DEPTHS 08
 SOUNDING 0198
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP
1.0		21.40
10.0		19.69
20.0		7.43
30.0		4.92
50.0		4.30
75.0		3.93
100.0		3.85
150.0		3.77

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

LAT 43-34-48N
 LON 076-38-54W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 0120

NO. DEPTHS 08
 SOUNDING 0198
 BT SLIDE NO 082

DEPTH	SECCHI	TEMP
1.0		21.44
10.0		19.59
20.0		5.99
30.0		4.78
50.0		4.36
75.0		3.91
100.0		3.85
150.0		3.74

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

LAT 43-34-48N
LON 076-38-54W

YEAR 1966
MONTH 07
DAY 29
TIME 0221

NO. DEPTHS 08
SOUNDING 0198
BT SLIDE NO 084

DEPTH	SECCHI	TEMP
1.0		21.38
10.0		19.60
20.0		6.48
30.0		4.87
50.0		4.38
75.0		3.92
100.0		3.86
150.0		3.79

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

LAT 43-34-48N
LON 076-38-48W

YEAR 1966
MONTH 07
DAY 29
TIME 0320

NO. DEPTHS 08
SOUNDING 0192
BT SLIDE NO 086

DEPTH	SECCHI	TEMP
1.0		21.27
10.0		19.81
20.0		6.39
30.0		4.95
50.0		4.45
75.0		3.95
100.0		3.88
150.0		3.77

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

LAT 43-34-48N
LON 076-38-48W

YEAR 1966
MONTH 07
DAY 29
TIME 0427

NO. DEPTHS 08
SOUNDING 0192
BT SLIDE NO 088

DEPTH	SECCHI	TEMP
1.0		21.11
10.0		21.05
20.0		7.15
30.0		5.05
50.0		4.38
75.0		3.96
100.0		3.89
150.0		3.80

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

LAT 43-34-48N
LON 076-38-48W

YEAR 1966
MONTH 07
DAY 29
TIME 0522

NO. DEPTHS 08
SOUNDING 0192
BT SLIDE NO 090

DEPTH	SECCHI	TEMP
1.0		21.01
10.0		20.96
20.0		11.58
30.0		5.28
50.0		4.48
75.0		3.97
100.0		3.94
150.0		3.81

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

LAT 43-34-48N
LON 076-38-48W

YEAR 1966
MONTH 07
DAY 29
TIME 0626

NO. DEPTHS 08
SOUNDING 0193
BT SLIDE NO 092

DEPTH	SECCHI	TEMP
1.0		20.99
10.0		20.96
20.0		7.39
30.0		5.18
50.0		4.52
75.0		3.98
100.0		3.94
150.0		3.79

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

LAT 43-34-48N
LON 076-38-48W

YEAR 1966
MONTH 07
DAY 29
TIME 0650

NO. DEPTHS 08
SOUNDING 0193
BT SLIDE NO 093

DEPTH	SECCHI	TEMP
1.0		20.93
10.0		20.92
20.0		16.41
30.0		5.45
50.0		4.56
75.0		3.96
100.0		3.95
150.0		3.82

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 0716

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 094

DEPTH	SECCHI	TEMP
1.0		20.90
10.0		20.88
20.0		9.88
30.0		5.18
50.0		4.48
75.0		3.99
100.0		3.93
150.0		3.78

C-REF-NO 009
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 0821

NO. DEPTHS 08
 SOUNDING 0193
 BT SLIDE NO 096

DEPTH	SECCHI	TEMP
1.0		21.01
10.0		20.97
20.0		9.54
30.0		5.12
50.0		4.48
75.0		3.98
100.0		3.92
150.0		3.79

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

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 0915

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 098

DEPTH	SECCHI	TEMP
1.0		20.98
10.0		20.93
20.0		9.77
30.0		5.16
50.0		4.52
75.0		3.98
100.0		3.92
150.0		3.79

C-REF-NO 009
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 1021

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 100

DEPTH	SECCHI	TEMP
1.0		20.92
10.0		20.89
20.0		10.65
30.0		5.07
50.0		4.48
75.0		3.97
100.0		3.92
150.0		3.81

C-REF-NO 009
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 1051

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 101

DEPTH	SECCHI	TEMP
1.0		20.91
10.0		20.87
20.0		10.33
30.0		5.55
50.0		4.67
75.0		3.99
100.0		3.91
150.0		3.80

C-REF-NO 009
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 1124

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 102

DEPTH	SECCHI	TEMP
1.0		20.92
10.0		20.90
20.0		10.38
30.0		5.07
50.0		4.42
75.0		3.96
100.0		3.91
150.0		3.79

C-REF-NO 009
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 1229

NO. DEPTHS 08
 SOUNDING 0192
 BT SLIDE NO 104

DEPTH	SECCHI	TEMP
1.0		20.90
10.0		20.89
20.0		14.19
30.0		5.18
50.0		4.42
75.0		3.97
100.0		3.91
150.0		3.79

C-REF-NO 009
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-48N
 LON 076-38-48W

YEAR 1966
 MONTH 07
 DAY 29
 TIME 1321

NO. DEPTHS 08
 SOUNDING 0195
 BT SLIDE NO 105

DEPTH	SECCHI	TEMP
1.0		20.85
10.0		20.83
20.0		9.87
30.0		4.96
50.0		4.36
75.0		3.96
100.0		3.89
150.0		3.79

CRUISE 66-10, LAKE ONTARIO

C-REF-NO 010
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 44-00-39N
 LON 076-46-33W

YEAR 1966
 MONTH 08
 DAY 02
 TIME 1900

NO. DEPTHS 03
 SOUNDING 0028
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.71	270	8.53	8.540	0.7	1.3	81.0
10.0		21.65	271	8.86	8.530	0.5		82.0
20.0		13.56	280	6.37	7.850	0.2		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.0	0.049	0.001	0.115		000E00	000E00
10.0	126.5	26.5	0.064	0.001	0.110		200E00	
20.0	131.5	26.0	0.413	0.002	0.065		000E00	

DEPTH	SPC 20	SPC 35
1.0	400E01	170E01
10.0		
20.0		

C-REF-NO 010	LAT 44-03-36N	YEAR 1966	NO. DEPTHS 03
CONS. NO 002	LCN 076-28-06W	MONTH 08	SOUNDING 0014
COUNTRY 18		DAY 02	BT SLIDE NO 002
INSTITUTE 22		TIME 2047	

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.82	270	8.71	8.510	0.6	1.1	82.0
3.0								
10.0		21.79	270	8.66	8.500	0.5		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.5	0.069	0.001	0.020		300E00	000E00
3.0						0.000		
10.0	127.0	26.5	0.064	0.001	0.015		000E00	

DEPTH	SPC 20	SPC 35
1.0	160E02	400E01
3.0		
10.0		

C-REF-NO 010
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 43-55-54N
 LON 076-16-33W

YEAR 1966
 MONTH 08
 DAY 02
 TIME 2221

NO. DEPTHS 03
 SOUNDING 0015
 BT SLIDE NO 003

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.38	268	8.41	8.490	0.5	1.2	81.0
3.0								
10.0		22.32	268	8.38	8.470	0.4		80.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.058	0.002	0.050		500E00	
3.0						0.000		
10.0	125.5	26.5	0.063	0.002	0.040		000E00	

DEPTH	SPC 20	SPC 35
1.0	800E01	170E02
3.0		
10.0		

C-REF-NO 010	LAT 43-45-51N	YEAR 1966	NO. DEPTHS 03
CONS. NO 004	LCN 076-17-54W	MONTH 08	SOUNDING 0034
COUNTRY 18		DAY 02	BT SLIDE NO 004
INSTITUTE 22		TIME 2358	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.84	272	7.92	8.530	0.2	1.0	81.0
10.0		21.82	272	8.71	8.460		0.8	82.0
20.0		21.80	274	8.68	8.550	0.3	0.7	82.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	27.0	0.054	0.001	0.100		000E00	000E00
10.0	127.0	27.5	0.054	0.001	0.035		000E00	
20.0	127.0	27.5	0.063	0.002	0.050		000E00	

DEPTH	SPC 20	SPC 35
1.0	100E03	500E01
10.0		
20.0		

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

LAT 43-51-24N
 LON 076-31-54W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 0141

NO. DEPTHS 03
 SOUNDING 0033
 BT SLIDE NO 005

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.09	271	8.53	8.490	0.3	0.6	82.5
10.0		21.03	270	8.55	8.490	0.3		83.0
20.0		10.22	277	10.87	8.160	0.2		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.5	0.093	0.002	0.065	0.000	000E00	400E00
10.0	127.0	26.5	0.093	0.002	0.090		000E00	
20.0	131.0	26.5	0.298	0.007	0.090		100E00	

DEPTH	SPC 20	SPC 35
1.0	540E02	800E01
10.0		
20.0		

C-REF-NO 010
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 43-40-24N
 LON 076-32-36W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 0316

NO. DEPTHS 08
 SOUNDING 0135
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.14	269	8.69	8.470	0.5	1.0	82.5
3.0								
9.0		21.11	271	8.76	8.470	0.3	1.2	83.5
19.0		15.06	276	9.49	8.290	0.7	0.7	87.0
28.0		5.11	280	12.07	8.060	0.3	0.6	91.0
47.0				12.43			0.6	90.5
71.0		4.30	278	12.70	8.150	0.3	0.4	91.0
95.0		4.02	281	12.85	8.130	0.2	0.4	90.0

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	126.0	26.5	0.074	0.001	0.025		000E00	000E00
3.0						0.003		
9.0	126.5	26.5	0.086	0.004	0.070		000E00	
19.0	128.5	26.0	0.157	0.003	0.085		200E00	
28.0	130.0	26.0	0.459	0.006	0.025		000E00	
47.0	131.0	25.5	0.490	0.010	0.060		800E00	
71.0	132.0	26.0	0.504	0.011	0.070		000E00	
95.0	132.0	26.5	0.501	0.009	0.070		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	500E01	200E01
3.0		
9.0		
19.0		
28.0		
47.0		
71.0		
95.0	270E01	400E00

C-REF-NO 010
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 43-33-54N
 LON 076-19-39W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 0516

NO. DEPTHS 03
 SOUNDING 0034
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.84	272	8.57	8.510	1.0	0.7	82.5
10.0		21.83	272	8.54	8.500	0.6		82.0
20.0		21.48	273	8.54	8.510	0.9		82.0

DEPTH	HARD	CL	NO3ND2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	126.5	27.0	0.074	0.001	0.025	0.000	100E00	000E00
10.0	126.5	27.0	0.064	0.001	0.025		100E00	
20.0	126.5	27.5	0.069	0.001	0.020		100E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	110E01
10.0		
20.0		

C-REF-NO 010	LAT 43-32-09N	YEAR 1966	NO. DEPTHS 04
CONS. NO 008	LON 076-26-51W	MONTH 08	SOUNDING 0049
COUNTRY 18		DAY 03	BT SLIDE NO 010
INSTITUTE 22		TIME 0622	

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.98	283	8.77	8.530	0.9	0.9	82.5
10.0		21.99	286	8.80	8.550	0.8		82.5
20.0		21.87	288	8.65	8.500	1.1		82.5
30.0		7.09	278	13.09	8.270	0.9		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.5	30.5	0.049	0.001	0.065		400E00	000E00
10.0	128.5	30.5	0.049	0.001	0.060		150E01	
20.0	130.0	31.0	0.054	0.001	0.065		200E00	
30.0	132.0	26.5	0.274	0.001	0.040		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	800E01	220E01
10.0		
20.0		
30.0	650E01	280E01

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

LAT 43-34-24N
 LON 076-30-06W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 0719

NO. DEPTHS 07
 SOUNDING 0122
 BT SLIDE NO 011

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.53	286	8.62	8.460	0.8	1.3	83.0
10.0		21.51	285	8.49	8.450	0.9		81.5
20.0		20.70	269	8.74	8.470	0.7		82.5
30.0		6.09	280	11.84	8.090	0.9		91.0
50.0		4.55	280	12.90	8.090	0.7		89.0
75.0			280	12.17		0.8		91.0
100.0			279	12.87		0.3		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	30.5	0.079	0.001	0.090		200E00	
10.0	128.5	30.0	0.084	0.001	0.165		180E01	
20.0	126.5	26.5	0.093	0.002	0.200		000E00	
30.0	132.0	26.0	0.435	0.005	0.175		000E00	
50.0	131.0	25.0	0.503	0.007	0.175		150E01	
75.0	132.0	26.0	0.466	0.009	0.155		000E00	
100.0	132.0	26.0	0.510	0.010	0.125		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	800E01	700E00
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	280E01	600E00

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

LAT 43-33-00N
 LON 076-34-09W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 0918

NO. DEPTHS 07
 SOUNDING 0148
 BT SLIDE NO 013

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.62	271	8.68	8.460	0.6	0.7	82.5
10.0		20.60	269	8.69	8.460	0.7		82.0
20.0		11.56	278	10.44	8.160	0.9		90.0
30.0		5.69	281	11.97	8.070	0.5		90.0
50.0		4.29	280	12.46	8.100	0.3		90.0
75.0		3.99	279	12.65	8.130	0.4		90.0
100.0		3.84	281	12.85	8.140	0.2		90.0

DEPTH	HARD	CL	NO3ND2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.0	0.064	0.001	0.140		000E00	000E00
10.0	126.5	26.5	0.074	0.001	0.115		000E00	
20.0	131.0	26.0	0.222	0.003	0.140		000E00	
30.0	131.5	26.0	0.262	0.003	0.060		000E00	
50.0	131.5	26.0	0.497	0.013	0.075		000E00	
75.0	132.0	26.0	0.483	0.012	0.060		000E00	
100.0	132.0	26.0	0.500	0.005	0.060		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	400E01	290E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	350E01	900E00

C-REF-NO 010
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

LAT 43-31-15N
 LON 076-30-30W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1006

NO. DEPTHS 05
 SOUNDING 0057
 BT SLIDE NO 014

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.05	266	8.68	8.450	1.1	1.0	83.0
10.0		21.03	270	8.66	8.460	0.5		83.0
20.0		9.75	277	10.59	8.120	0.3		91.0
30.0		6.59	277	12.34	8.180	0.5		91.5
50.0		4.29	281	12.06	8.100	0.7		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.5	0.084	0.001	0.170		100E00	000E00
10.0	125.0	26.5	0.084	0.001	0.060		130E01	
20.0	132.0	26.0	0.461	0.009	0.045		000E00	
30.0	132.0	26.0	0.391	0.004	0.065		000E00	
50.0	136.0	26.0	0.512	0.013	0.135		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	700E01	600E01
10.0		
20.0		
30.0		
50.0	800E01	150E01

C-REF-NO 010
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

LAT 43-29-00N
 LON 076-31-42W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1054

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.54	295	7.71	8.440	1.6	0.6	84.0
10.0		21.54	297	7.71	8.440	1.6		83.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.5	33.0	0.114	0.001	0.120		150E02	000E00
10.0	132.5	33.0	0.123	0.002	0.125		150E02	

DEPTH	SPC 20	SPC 35
1.0	180E02	800E01
10.0		

C-REF-NO 010	LAT 43-30-15N	YEAR 1966	NO. DEPTHS 06
CONS. NO 013	LON 076-34-21W	MONTH 08	SOUNDING 0075
COUNTRY 18		DAY 03	BT SLIDE NO 016
INSTITUTE 22		TIME 1131	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	20.85	270	8.57	8.490	1.2	0.7	82.5
3.0								
10.0		20.83	268	8.77	8.490	0.9		82.5
20.0		13.32	277	9.19	8.210	0.5		90.0
30.0		6.00	280	12.31	8.150	0.6		91.0
50.0		3.97	279	12.43	8.120	0.7		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.0	0.089	0.001	0.085		100E00	000E00
3.0						0.000		
10.0	126.0	26.0	0.089	0.001	0.020		000E00	
20.0	130.0	25.5	0.305	0.005	0.100		000E00	
30.0	132.0	25.5	0.444	0.006	0.050		100E00	
50.0	132.5	26.0	0.516	0.009	0.110		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E01	170E01
3.0		
10.0		
20.0		
30.0		
50.0	400E01	600E00

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

LAT 43-31-51N
 LON 076-36-42W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1241

NO. DEPTHS 07
 SOUNDING 0151
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.49	269	8.66	8.460	0.5	0.8	85.0
10.0		20.48	272	8.72	8.480	0.8		85.0
19.0		12.86	275	10.06	8.310	0.8		89.0
29.0		5.56	279	12.34	8.170	1.1		91.5
48.0		4.43	277	12.65	8.140	0.7		93.0
72.0			279	12.39		0.7		92.0
97.0			278	12.79		0.6		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.5	0.094	0.001	0.020		000E00	000E00
10.0	126.5	26.5	0.099	0.001	0.020		000E00	
19.0	129.0	26.0	0.172	0.003	0.075		000E00	
29.0	131.5	26.0	0.419	0.001	0.020		000E00	
48.0	132.0	26.0	0.495	0.015	0.035		000E00	
72.0	131.5	26.0	0.462	0.003	0.005		000E00	
97.0	132.0	26.5	0.505	0.010	0.035		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	280E01	400E01
10.0		
19.0		
29.0		
48.0		
72.0		
97.0	400E01	300E01

C-REF-NO 010
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

LAT 43-28-48N
 LON 076-37-27W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1338

NO. DEPTHS 05
 SOUNDING 0077
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.3	20.47	270	8.80	8.500	1.1	0.8	86.0
10.0		20.45	270	8.83	8.500	0.6		87.0
20.0		20.44	270	8.86	8.490	0.7		87.0
30.0		7.16	278	11.97	8.130	0.9		95.0
49.0		4.32	280	12.20	8.050	0.9		96.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.5	0.094	0.001	0.040		100E00	
10.0	127.0	26.5	0.074	0.001	0.020		000E00	
20.0	127.0	26.5	0.094	0.001	0.015		000E00	
30.0	136.0	26.0	0.370	0.005	0.030		000E00	
49.0	138.0	26.0	0.518	0.012	0.060		000E00	600E00

DEPTH	SPC 20	SPC 35
1.0	150E02	
10.0		
20.0		
30.0		
49.0	120E02	130E01

C-REF-NO 010
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 43-27-21N
 LON 076-34-24W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1412

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 019

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	20.98	270	8.66	8.450	1.7	0.9	87.0
10.0		21.15	269	8.58	8.450	1.7		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5	0.089	0.001	0.015		500E01	800E00
10.0	129.5	26.5	0.104	0.001	0.010		580E01	

DEPTH	SPC 20	SPC 35
1.0	260E02	
10.0		

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

LAT 43-25-51N
 LON 076-38-00W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1458

NO. DEPTHS 02
 SOUNDING 0026
 BT SLIDE NO 020

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.0	21.29	269	8.60	8.400	1.7	1.1	85.5
10.0		20.59	268	8.62	8.450	1.2		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0	0.099	0.001	0.010		230E02	500E00
10.0	129.5	26.0	0.104	0.001	0.010		400E01	

DEPTH	SPC 20	SPC 35
1.0	300E02	
10.0		

C-REF-NO 010
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-39N
 LON 076-49-03W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1614

NO. DEPTHS 04
 SOUNDING 0063
 BT SLIDE NO 021

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.48	268	8.99	8.480	1.3	1.0	85.0
10.0		20.31		8.96				84.0
20.0		20.30	268	8.94	8.470	0.8		84.5
30.0		8.97	278	10.59	8.050	0.8		92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	26.5	0.084	0.001	0.010	0.000	000E00	100E00
10.0	129.5	26.5	0.089	0.001	0.045		000E00	
20.0	129.5	26.5	0.094	0.001	0.015		000E00	
30.0	136.5	25.0	0.435	0.010	0.140		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	800E01	
10.0		
20.0		
30.0	400E01	

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

LAT 43-35-09N
 LON 076-48-09W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 1814

NO. DEPTHS 10
 SOUNDING 0203
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.84	271	8.79	8.550	0.5	0.9	87.0
3.0								
10.0		20.78	269	8.93	8.540	0.8	0.8	87.0
19.0		10.40	277	10.69	8.150	0.5	0.9	94.0
28.0		5.16	280	12.26	8.080	0.4	0.4	94.0
47.0		4.28	279	12.85	8.070	0.5	0.2	94.0
71.0		3.92	279	12.85	8.120	0.7	0.2	94.0
95.0		3.87	278	12.96	8.090	0.7	0.1	94.5
142.0		3.78	279	12.85	8.090	1.2	0.2	94.0
190.0		3.73	280	12.32	8.120		0.1	94.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	26.5	0.115	0.005	0.035		000E00	
3.0						0.001		
10.0	131.5	26.5	0.074	0.001	0.040		000E00	
19.0	136.5	26.5	0.293	0.002	0.065		000E00	
28.0	137.5	26.5	0.469	0.006	0.230		100E00	
47.0	137.5	26.5	0.506	0.004	0.125		000E00	
71.0	138.0	25.0	0.508	0.002	0.050		000E00	
95.0	137.5	25.5	0.507	0.003	0.125		000E00	
142.0	137.5	25.5	0.509	0.001	0.190		000E00	
190.0	138.0	26.0	0.521	0.004	0.420		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	550E01	
3.0		
10.0		
19.0		
28.0		
47.0		
71.0		
95.0		
142.0		
190.0	210E01	

C-REF-NO 010
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

LAT 43-47-39N
 LON 076-47-15W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 2043

NO. DEPTHS 06
 SOUNDING 0073
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	20.67	271	8.94	8.440	0.6	0.6	80.0
3.0								
10.0		20.63	271	8.90	8.460	0.6		81.5
20.0		11.43	279	9.52	8.070	0.2		85.0
30.0		6.86	282	10.66	7.990	0.1		86.5
50.0		4.78	284	10.91	8.000	0.3		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.043	0.002	0.025		000E00	000E00
3.0						0.000		
10.0	126.0	26.5	0.077	0.003	0.010		000E00	
20.0	131.0	26.0	0.268	0.027	0.075		000E00	
30.0	131.5	26.5	0.105	0.020	0.085		000E00	
50.0	134.0	27.0	0.480	0.015	0.085		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	
3.0		
10.0		
20.0		
30.0		
50.0	120E02	400E01

C-REF-NO 010
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-21N
 LON 076-58-03W

YEAR 1966
 MONTH 08
 DAY 03
 TIME 2230

NO. DEPTHS 04
 SOUNDING 0030
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	19.50	273	8.96	8.420	0.4	0.7	82.0
3.0								
10.0		14.13	278	8.29	8.070	0.3	0.4	84.0
20.0		6.56	282	9.97	8.000	0.6	0.3	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.5	0.144	0.006	0.005		000E00	000E00
3.0						0.000		
10.0	131.0	26.5	0.263	0.017	0.160		270E02	
20.0	133.5	27.0	0.425	0.015	0.065		000E00	

DEPTH	SPC 20	SPC 35
1.0	230E01	200E01
3.0		
10.0		
20.0		

C-REF-NO 010
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

LAT 43-41-57N
 LON 077-01-51W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 0110

NO. DEPTHS 06
 SOUNDING 0101
 BT SLIDE NO 028

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.71	272	8.94	8.480	0.6	0.9	81.0
10.0		20.66	269	8.83	8.500	0.8	0.6	81.0
20.0		8.40	280	10.06	8.060	0.2	0.4	85.0
30.0		5.97	282	11.53	8.090	0.1	0.5	85.0
50.0		4.35	281	12.07	8.060	0.4	0.5	86.0
75.0		4.27	282	12.15	8.050	0.2	0.3	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.0	0.071	0.004	0.015		300E00	200E00
10.0	126.0	27.0	0.071	0.004	0.010		000E00	
20.0	132.0	26.5	0.317	0.018	0.020		000E00	
30.0	133.5	26.5	0.422	0.018	0.010		000E00	
50.0	136.5	26.5	0.475	0.005	0.055		000E00	
75.0	135.5	26.5	0.471	0.009	0.090		000E00	100E00

DEPTH	SPC 20	SPC 35
1.0	400E01	250E01
10.0		
20.0		
30.0		
50.0		
75.0	750E01	160E01

C-REF-NO 010	LAT 43-30-12N	YEAR 1966	NO. DEPTHS 09
CONS. NO 023	LOX 077-02-27W	MONTH 08	SOUNDING 0229
COUNTRY 18		DAY 04	BT SLIDE NO 030
INSTITUTE 22		TIME 0334	

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.43	271	8.88	8.490	0.9	0.8	81.0
9.0		20.42	270	8.90	8.470	0.6	0.6	81.0
18.0		15.45	276	9.29	8.320	0.6	0.5	83.0
27.0		5.67	278	12.17	8.140	0.0	0.1	85.0
46.0		4.69	280	12.62	8.130	0.1	0.1	85.0
68.0		4.17	281	12.76	8.150	0.1	0.2	86.0
91.0		3.91	279	12.79	8.150	0.1	0.3	86.0
137.0		3.81	278	12.90	8.140	0.0	0.4	85.5
182.0		3.73	278	12.82	8.130	0.2	0.0	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.0	0.084	0.001	0.005		300E00	600E00
9.0	126.0	26.5	0.079	0.001	0.005		130E02	
18.0	129.0	26.5	0.185	0.005	0.015		600E01	
27.0	132.0	26.5	0.391	0.009	0.010		600E00	
46.0	133.0	26.0	0.446	0.009	0.025		900E00	
68.0	138.0	26.0	0.463	0.007	0.070		300E00	
91.0	133.0	26.0	0.463	0.002	0.055		120E01	
137.0	133.0	26.0	0.463	0.002	0.060		290E01	
182.0	134.0	26.0	0.464	0.001	0.065		290E01	300E00

DEPTH	SPC 20	SPC 35
1.0	280E01	210E01
9.0		
18.0		
27.0		
46.0		
68.0		
91.0		
137.0		
182.0	300E01	600E01

C-REF-NO 010
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-36N
 LON 077-03-57W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 0525

NO. DEPTHS 03
 SOUNDING 0029
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.47	269	8.80	8.420	1.2	1.5	80.0
10.0		20.35	268	8.96	8.420	1.0	0.6	80.0
20.0		20.15	269	9.04	8.420	1.1	0.4	80.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	26.5	0.059	0.001	0.025		200E00	600E00
10.0	124.5	26.5	0.059	0.001	0.015		500E00	
20.0	125.0	26.5	0.059	0.001	0.020		100E00	

DEPTH	SPC 20	SPC 35
1.0	280E01	140E02
10.0		
20.0		

C-REF-NO 010
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 43-25-09N
 LON 077-16-57W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 0713

NO. DEPTHS 09
 SOUNDING 0216
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.01	270	9.13	8.430	1.4	0.8	81.0
10.0		19.94	270	9.19	8.410	1.6		81.0
20.0		18.38	270	9.44	8.350	1.2		82.5
30.0		5.18	278	12.71	8.150	0.2		86.5
50.0		5.02	278	12.70	8.140	0.4		86.5
75.0			277	11.92	8.200	0.5		85.0
99.0		4.37	279	12.85	8.140	0.2		86.0
149.0		4.08	279	12.98	8.120	0.0		86.0
199.0		3.84	280	12.99	8.100	0.2		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.071	0.004	0.010		800E00	000E00
10.0	126.5	26.5	0.068	0.002	0.010		200E00	
20.0	126.5	26.5	0.126	0.004	0.020		400E00	
30.0	134.5	26.5	0.442	0.008	0.035		100E00	
50.0	133.0	26.5	0.442	0.008	0.020		100E00	
75.0	132.0	26.5	0.392	0.003	0.020		000E00	
99.0	132.5	26.5	0.452	0.008	0.025		000E00	
149.0	132.5	26.5	0.462	0.003	0.070		000E00	
199.0	133.5	26.5	0.463	0.002	0.055		700E00	100E00

DEPTH	SPC 20	SPC 35
1.0	120E02	400E01
10.0		
20.0		
30.0		
50.0		
75.0		
99.0		
149.0		
199.0	130E01	270E01

C-REF-NO 010
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 43-37-00N
 LON 077-16-09W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 0929

NO. DEPTHS 07
 SOUNDING 0144
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		19.76	274	8.99	8.460	0.6	0.8	82.0
10.0		19.75	274	8.99	8.460	0.5		82.0
20.0		9.79	278	10.57	8.160	0.2		85.5
30.0		5.43	280	12.11	8.130	0.1		86.0
50.0		4.58	278	12.63	8.130	0.2		87.5
75.0		4.28	281	12.79	8.150	0.2		87.0
100.0		3.98	281	12.61	8.100	0.2		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.0	0.093	0.002	0.005		120E01	700E00
10.0	127.5	27.0	0.098	0.002	0.005		200E00	
20.0	131.0	26.5	0.274	0.006	0.015		000E00	
30.0	133.0	26.5	0.420	0.020	0.010		000E00	
50.0	134.0	26.5	0.449	0.016	0.040		000E00	
75.0	134.0	26.5	0.459	0.006	0.050		000E00	
100.0	133.5	27.0	0.461	0.004	0.075		700E00	000E00

DEPTH	SPC 20	SPC 35
1.0	270E01	900E00
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	230E01	140E01

C-REF-NO 010
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 43-48-00N
 LON 077-15-06W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 1119

NO. DEPTHS 04
 SOUNDING 0037
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.9	19.03	272	9.04	8.410	0.6	1.1	84.0
10.0		17.28	275	8.96	8.320	0.5		84.0
20.0		10.94	280	9.60	8.100	0.2		86.0
30.0		5.93	285	10.73	8.020	0.6		87.5

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	128.5	27.0	0.120	0.005	0.005		000E00	000E00
10.0	129.0	27.0	0.169	0.006	0.010		120E01	
20.0	132.0	27.0	0.297	0.013	0.020		420E01	
30.0	135.0	27.0	0.460	0.010	0.065		140E01	000E00

DEPTH	SPC 20	SPC 35
1.0	210E01	200E01
10.0		
20.0		
30.0	270E01	110E01

C-REF-NO 010
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 43-43-42N
 LON 077-30-39W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 1309

NO. DEPTHS 06
 SOUNDING 0081
 BT SLIDE NO 038

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	4.0	19.15	275	9.13	8.440	0.9	0.9	82.5
3.0								
10.0		19.11	274	9.13	8.450	0.9		82.5
20.0		12.02	277	10.06	8.220	0.7		85.0
30.0		5.79	281	11.78	8.130	0.3		87.5
50.0		4.39	280	12.36	8.130	0.4		87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.0	0.106	0.004	0.085		650E01	000E00
3.0						0.000		
10.0	127.0	27.0	0.102	0.003	0.025		200E00	
20.0	132.0	26.5	0.209	0.006	0.050		000E00	
30.0	134.0	26.5	0.400	0.015	0.060		000E00	
50.0	134.0	26.5	0.455	0.010	0.075			

DEPTH	SPC 20	SPC 35
1.0	500E01	150E01
3.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 010
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 43-31-30N
 LON 077-31-12W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 1522

NO. DEPTHS 09
 SOUNDING 0170
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.7	19.41	270	9.41	8.450	1.5	1.1	82.0
3.0								
10.0		18.32	270	9.35	8.420	1.5	0.8	82.5
20.0		7.15	280	12.08	8.190	0.8	0.6	87.0
30.0		4.80	282	12.77	8.160	0.3	1.1	87.0
50.0		3.93	280	12.88	8.120	0.2	0.4	87.0
75.0		3.87	280	12.96	8.130	0.2	0.1	87.0
100.0		3.83	280	12.88	8.130	0.1	0.1	87.0
150.0		3.79	281	12.90	8.130	0.0	0.0	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.5	0.107	0.003	0.010		000E00	200E00
3.0						0.000		
10.0	125.5	26.5	0.094	0.001	0.015		200E00	
20.0	131.0	26.5	0.342	0.008	0.010		000E00	
30.0	131.0	26.5	0.442	0.008	0.020		000E00	
50.0	134.0	26.5	0.458	0.002	0.055		220E01	
75.0	131.0	26.5	0.458	0.002	0.060		700E00	
100.0	131.5	26.5	0.459	0.001	0.060		900E00	
150.0	132.0	27.0	0.463	0.002	0.070		110E01	000E00

DEPTH	SPC 20	SPC 35
1.0	160E01	170E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	250E01	150E01

C-REF-NO 010
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-36N
 LON 077-32-18W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 1702

NO. DEPTHS 05
 SOUNDING 0055
 BT SLIDE NO 042

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	19.66	272	9.62	8.400	1.3	0.6	82.5
3.0								
10.0		18.76	272	9.57	8.370	1.1		83.5
20.0		14.16	276	9.81	8.160	1.1		85.0
30.0		4.98	280	12.16	8.040	0.4		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.5	0.064	0.001	0.005		100E00	500E00
3.0						0.001		
10.0	125.5	27.0	0.064	0.001	0.005		680E01	
20.0	128.5	26.5	0.250	0.005	0.020		530E01	
30.0	132.0	26.5	0.443	0.012	0.050		600E00	000E00

DEPTH	SPC 20	SPC 35
1.0	400E01	270E01
3.0		
10.0		
20.0		
30.0	230E01	170E01

C-REF-NO 010
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 43-26-12N
 LON 077-46-00W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 1846

NO. DEPTHS 07
 SOUNDING 0126
 BT SLIDE NO 043

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	18.95	269	9.99	8.390	1.3	0.5	84.0
10.0		17.94	270	9.85	8.380	1.3		84.0
20.0		8.65	278	11.31	8.080	0.5		89.0
30.0		6.24	278	12.33	8.080	0.2		89.0
50.0		4.49	279	12.80	8.080	0.4		89.0
75.0		3.96	278	12.99	8.080	0.2		89.0
100.0		3.85	279	12.85	8.070	0.6		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.5	0.084	0.001	0.005		600E01	000E00
10.0	125.5	26.5	0.094	0.001	0.005		100E00	
20.0	131.0	26.5	0.287	0.003	0.020		000E00	
30.0	132.5	26.5	0.357	0.003	0.020		800E00	
50.0	133.0	26.0	0.454	0.011	0.040		180E01	
75.0	132.5	26.0	0.460	0.005	0.045		170E01	
100.0	132.5	26.0	0.460	0.005	0.070		220E01	000E00

DEPTH	SPC 20	SPC 35
1.0	550E01	160E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	400E01	220E01

C-REF-NO 010
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 43-38-12N
 LON 077-45-00W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 2046

NO. DEPTHS 08
 SOUNDING 0155
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		19.11	269	9.96	8.450	1.3	0.8	85.0
3.0								
10.0		18.34	269	9.59	8.430	0.9		85.0
20.0		9.43	277	11.01	8.140	0.4		88.5
30.0		7.05	279	11.48	8.120	0.2		89.0
50.0		4.31	279	12.76	8.080	0.2		89.0
75.0		3.92	279	12.86	8.090	0.2		89.0
100.0		3.90	279	12.82	8.120	0.1		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.5	0.073	0.002	0.020		000E00	
3.0						0.000		
10.0	126.0	26.5	0.078	0.002	0.030		100E00	
20.0	130.5	26.5	0.284	0.006	0.065		100E00	
30.0	134.0	26.0	0.346	0.009	0.035		000E00	
50.0	134.0	26.5	0.456	0.009	0.050			
75.0	133.0	26.5	0.460	0.005	0.085		100E00	
100.0	132.5	26.5	0.461	0.004	0.085		000E00	600E00

DEPTH	SPC 20	SPC 35
1.0	120E02	210E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	220E01	500E01

C-REF-NO 010
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 43-50-18N
 LON 077-44-00W

YEAR 1966
 MONTH 08
 DAY 04
 TIME 2247

NO. DEPTHS 06
 SOUNDING 0070
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	20.02	270	9.55	8.490	0.5	0.8	86.0
3.0								
10.0		19.38	272	9.24	8.450	0.5		86.0
20.0		7.21	280	10.57	8.040	0.2		91.0
30.0		5.73	280	11.10	8.010	0.1		90.0
50.0		4.59	283	11.12	8.010	0.4		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.0	0.077	0.003	0.005		240E01	890E01
3.0						0.001		
10.0	127.5	26.0	0.092	0.003	0.010		540E01	
20.0	131.0	26.0	0.352	0.013	0.025		100E00	
30.0	132.0	26.0	0.465	0.020	0.035		000E00	
50.0	134.0	26.0	0.513	0.017	0.070		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	600E01
3.0		
10.0		
20.0		
30.0		
50.0	750E01	270E01

C-REF-NO 010
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 43-55-36N
 LON 077-57-36W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 0032

NO. DEPTHS 05
 SOUNDING 0040
 BT SLIDE NO 048

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		16.98	277	10.02	8.330	0.9	1.2	88.0
3.0								
10.0		8.61	281	9.80	7.990	0.4	0.5	89.0
20.0		6.49	281	10.49	7.970	0.4	0.2	89.0
30.0		5.31	281	11.20	8.010	0.2	0.3	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0	0.182	0.008	0.005		390E01	000E00
3.0						0.001		
10.0	131.0	26.5	0.331	0.019	0.035		300E00	
20.0	132.0	26.0	0.410	0.020	0.040		000E00	
30.0	133.0	26.0	0.451	0.024	0.065		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	950E01	350E01
3.0		
10.0		
20.0		
30.0	700E01	170E01

C-REF-NO 010
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 43-44-54N
 LON 077-59-00W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 0220

NO. DEPTHS 08
 SOUNDING 0112
 BT SLIDE NO 050

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.63	272	9.66	8.500	0.9	1.4	85.0
3.0								
10.0		12.32	277	10.08	8.200	0.5	0.7	87.0
20.0		5.38	278	11.93	8.080	1.0	0.3	89.0
30.0		4.39	280	12.43	8.070	0.4	0.2	89.0
50.0		4.04	280	12.93	8.120	0.2	0.3	89.0
75.0		3.90	280	12.65	8.090	0.2	0.2	89.0
100.0		3.88	282	12.23	8.080	0.6	0.2	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.5	26.0	0.057	0.003	0.035		310E01	200E00
3.0						0.000		
10.0	129.5	26.0	0.216	0.004	0.025		100E00	
20.0	131.5	26.0	0.420	0.020	0.035		000E00	
30.0	131.5	26.0	0.464	0.026	0.030		000E00	
50.0	132.0	26.0	0.472	0.018	0.060		100E00	
75.0	131.0	26.0	0.480	0.015	0.065		300E00	
100.0	130.5	26.0	0.494	0.016	0.075		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	700E01	400E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	750E01	250E01

C-REF-NO 010
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 43-33-03N
 LON 077-59-45W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 0420

NO. DEPTHS 09
 SOUNDING 0182
 BT SLIDE NO 052

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		18.77	268	9.86	8.420	1.4	0.8	84.0
3.0								
10.0		18.41	267	9.97	8.450	1.2	0.6	84.0
20.0		18.05	267	9.82	8.430	1.3	0.6	84.0
30.0		5.57	278	12.24	8.140	0.5	1.9	89.0
50.0		4.57	278	12.70	8.120	0.3	0.3	88.0
75.0		4.00	279	12.88	8.120	0.3	0.2	88.0
100.0		3.89	279	12.92	8.120	0.3	0.4	88.0
150.0		3.90	280	13.01	8.100	0.6	0.4	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.0	0.101	0.004	0.015		000E00	
3.0						0.000		
10.0	126.0	26.0	0.093	0.002	0.015		100E00	600E00
20.0	126.5	26.0	0.108	0.002	0.015		000E00	
30.0	131.0	26.0	0.443	0.012	0.040		530E01	
50.0	130.0	25.5	0.483	0.012	0.045		100E00	
75.0	131.0	26.0	0.489	0.006	0.060		450E01	
100.0	131.0	26.0	0.489	0.006	0.060		890E01	
150.0	131.0	26.0	0.494	0.006	0.165		590E01	100E00

DEPTH	SPC 20	SPC 35
1.0	600E01	170E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	140E01	110E01

C-REF-NO 010
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-39N
 LON 078-00-36W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 0617

NO. DEPTHS 06
 SOUNDING 0062
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.09	273	9.10	8.480	1.5	0.9	84.5
3.0								
10.0		20.88	272	8.93	8.450	1.5	0.6	84.5
20.0		19.62	271	9.16	8.490	1.4	0.5	84.5
30.0		5.95	279	12.20	8.060	1.2	0.8	89.0
50.0		4.39	280	11.96	8.020	0.7	0.2	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	27.0	0.078	0.002	0.015		160E01	220E01
3.0						0.001		
10.0	126.5	27.0	0.083	0.002	0.015		100E00	
20.0	127.0	27.0	0.083	0.002	0.140		000E00	
30.0	131.0	26.5	0.479	0.016	0.045		180E01	
50.0	132.0	26.5	0.511	0.014	0.085		600E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	400E01
3.0		
10.0		
20.0		
30.0		
50.0	800E01	800E00

C-REF-NO 010
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 43-27-27N
 LON 078-14-15W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 0813

NO. DEPTHS 08
 SOUNDING 0146
 BT SLIDE NO 055

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		19.56	271	9.66	8.380	0.8	0.7	84.5
3.0								
10.0		18.58	272	9.43	8.340	0.6		85.0
20.0		7.06	277	11.51	8.070	0.3		88.0
30.0		5.26	278	12.07	8.030	0.2		88.0
50.0		4.22	278	12.76	8.080	0.3		88.0
75.0		3.94	279	12.65	8.090	0.2		88.0
100.0		3.86	278	12.71	8.060	0.3		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.106	0.004	0.010		100E00	100E00
3.0						0.000		
10.0	128.0	26.5	0.121	0.004	0.055		100E00	
20.0	131.0	26.0	0.382	0.013	0.065		900E00	
30.0	132.0	26.0	0.471	0.014	0.070		500E00	
50.0	131.0	26.0	0.495	0.010	0.060		400E00	
75.0	131.0	26.0	0.500	0.010	0.110		100E00	
100.0	131.5	26.0	0.496	0.014	0.070		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	230E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	270E01	120E01

C-REF-NO 010
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 43-39-54N
 LON 078-13-21W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1020

NO. DEPTHS 08
 SOUNDING 0152
 BT SLIDE NO 057

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	1.9	18.51	268	9.92	8.420	1.2	0.7	84.0
3.0								
10.0		14.76	272	10.17	8.280	0.9		85.5
20.0		11.12	275	11.14	8.180	0.6		86.5
30.0		4.77	277	12.25	8.060	0.5		88.0
50.0		4.05	277	12.60	8.050	0.2		88.0
75.0		3.91	279	12.78	8.100	0.2		88.0
100.0		3.86	279	12.90	8.120	0.0		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.0	0.061	0.004	0.010		000E00	100E00
3.0						0.000		
10.0	128.0	26.0	0.191	0.004	0.040		000E00	
20.0	130.0	26.0	0.274	0.006	0.030		000E00	
30.0	132.0	26.0	0.466	0.014	0.070		150E01	
50.0	132.0	26.0	0.488	0.012	0.065		180E01	
75.0	131.0	26.5	0.490	0.010	0.065		900E00	
100.0	133.0	26.5	0.490	0.010	0.085		130E01	100E00

DEPTH	SPC 20	SPC 35
1.0	290E01	190E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	300E01	900E00

C-REF-NO 010
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-33N
 LON 078-13-00W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1214

NO. DEPTHS 05
 SOUNDING 0049
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.06	273	9.89	8.550	0.5	0.9	86.0
3.0								
10.0		13.78	276	10.05	8.230	0.3		86.0
20.0		7.78	277	11.19	8.140	0.2		87.0
30.0		5.66	281	10.72	8.000	0.4		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.5	0.073	0.002	0.010		250E01	000E00
3.0						0.000		
10.0	129.5	26.0	0.166	0.004	0.300		500E00	
20.0	132.0	26.0	0.309	0.006	0.500		000E00	
30.0	134.0	26.0	0.436	0.019	0.055		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	400E01	800E00
3.0		
10.0		
20.0		
30.0	500E01	240E01

C-REF-NO 010
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 43-46-18N
 LON 078-27-27W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1355

NO. DEPTHS 06
 SOUNDING 0078
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	18.78	270	10.24	8.580	1.0	1.0	85.0
3.0								
10.0		18.45	271	10.25	8.560	0.8		85.0
20.0		9.95	278	11.81	8.250	0.2		89.0
30.0		4.38	279	12.62	8.120	0.2		88.0
50.0		4.04	279	12.78	8.100	0.2		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.073	0.002	0.060		300E00	000E00
3.0						0.001		
10.0	128.5	26.0	0.073	0.002	0.050		100E00	
20.0	131.0	26.0	0.231	0.004	0.310		000E00	
30.0	132.0	26.0	0.451	0.019	0.080		000E00	
50.0	130.5	26.0	0.470	0.020	0.075		000E00	300E00

DEPTH	SPC 20	SPC 35
1.0	750E01	150E01
3.0		
10.0		
20.0		
30.0		
50.0	400E01	180E01

C-REF-NO 010
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-03N
 LON 078-28-15W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1600

NO. DEPTHS 09
 SOUNDING 0176
 BT SLIDE NO 062

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.0	18.94	270	10.86	8.460	1.3	1.1	85.0
3.0								
10.0		14.14	273	10.92	8.350	0.8	0.7	86.5
20.0		6.39	278	12.06	8.120	0.1	0.5	88.0
30.0		4.34	279	12.84	8.010	0.2	0.5	87.0
50.0		3.96	279	13.01	8.050	0.4	0.3	87.0
75.0		3.88	279	13.02	8.080	0.0	0.4	87.0
99.0		3.85	279	13.17	8.100	0.2	0.3	87.0
149.0		3.77	279	12.85	8.080	0.0	0.3	87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.093	0.002	0.010		100E00	000E00
3.0						0.000		
10.0	131.0	26.5	0.158	0.002	0.010		410E01	
20.0	132.5	26.0	0.401	0.004	0.015		400E00	
30.0	132.0	26.5	0.485	0.010	0.065		400E00	
50.0	132.0	26.0	0.494	0.006	0.060		000E00	
75.0	132.0	26.0	0.496	0.004	0.075		100E00	
99.0	132.0	26.0	0.495	0.005	0.075		200E00	
149.0	132.0	26.5	0.495	0.005	0.090		100E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	360E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
99.0		
149.0	260E01	400E01

C-REF-NO 010
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-00N
 LON 078-29-09W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1736

NO. DEPTHS 04
 SOUNDING 0051
 BT SLIDE NO 064

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	20.85	274	10.03	8.560	1.2	1.0	85.0
10.0		19.16	274	9.60	8.450	0.7		85.0
20.0		5.64	279	11.76	8.070	0.3		88.0
30.0		4.51	280	12.01	8.060	0.6		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.5	27.0	0.106	0.004	0.010		000E00	
10.0	128.5	27.0	0.146	0.004	0.025		740E01	
20.0	131.0	26.5	0.472	0.013	0.045		380E01	
30.0	133.0	26.5	0.501	0.009	0.070		470E01	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	500E01
10.0		
20.0		
30.0	600E01	190E01

C-REF-NO 010
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 43-28-54N
 LON 078-43-30W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 1914

NO. DEPTHS 08
 SOUNDING 0152
 BT SLIDE NO 065

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	19.56	270	10.88	8.570	0.8	1.1	81.0
3.0								
10.0		14.55	272	11.79	8.480	1.5		84.0
20.0		12.58	274	11.28	8.360	1.1		84.0
30.0		4.81	279	12.62	8.100	0.2		85.0
50.0		4.06	279	13.04	8.100	0.2		85.5
75.0		3.93	279	13.15	8.130	0.2		86.0
100.0		3.86	279	13.08	8.120	0.1		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	26.0	0.068	0.002	0.025		000E00	100E00
3.0						0.000		
10.0	129.0	26.5	0.088	0.002	0.045		130E01	
20.0	130.0	26.5	0.198	0.002	0.070		600E00	
30.0	132.0	26.0	0.447	0.008	0.050		000E00	
50.0	132.0	26.0	0.485	0.010	0.080		100E00	
75.0	132.0	26.0	0.487	0.008	0.075		200E00	
100.0	132.0	26.0	0.489	0.006	0.075		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	250E02	500E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	180E01	240E01

G-REF-NO 010
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 43-40-57N
 LON 078-42-24W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 2134

NO. DEPTHS 08
 SOUNDING 0117
 BT SLIDE NO 068

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	18.95	269	10.88	8.580	0.9	0.7	89.0
3.0								
10.0		11.10	277	11.40	8.200	0.9		
20.0		5.48	278	12.29	8.040	0.2		94.0
30.0		5.29	278	12.29	8.120	0.2		94.0
49.0		3.93	280	13.20	8.190	0.1		94.0
74.0		3.87	279	12.86	8.070	0.1		94.0
98.0		3.80	279	12.53	8.080	0.1		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	28.5	0.059	0.001	0.010		000E00	180E01
3.0						0.001		
10.0	130.0		0.243	0.002	0.010		000E00	
20.0	136.0	28.5	0.451	0.009	0.020		000E00	
30.0	132.0	29.0	0.457	0.008	0.005		000E00	
49.0	131.0	28.0	0.488	0.012	0.020		000E00	
74.0	131.5	29.0	0.486	0.014	0.115		000E00	
98.0	131.5	28.5	0.500	0.015	0.250		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E01	150E01
3.0		
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	170E01	220E01

C-REF-NO 010
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 43-50-12N
 LON 078-41-12W

YEAR 1966
 MONTH 08
 DAY 05
 TIME 2305

NO. DEPTHS 03
 SOUNDING 0031
 BT SLIDE NO 069

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.8	15.75	278	11.04	8.040	0.9	0.7	91.0
10.0		11.00	279	8.85	8.020	0.2		92.5
20.0		6.15	282	10.35	7.990	0.2		92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	29.0	0.121	0.004	0.005		000E00	100E00
10.0	134.0	29.0	0.362	0.008	0.010		100E00	
20.0	132.0	28.5	0.462	0.013	0.010		100E00	

DEPTH	SPC 20	SPC 35
1.0	170E01	110E01
10.0		
20.0		

C-REF-NO 010
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 43-47-51N
 LON 078-55-45W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 0040

NO. DEPTHS 05
 SOUNDING 0039
 BT SLIDE NO 070

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.64	275	11.43	8.490	0.7	1.5	90.5
3.0								
10.0		8.83	281	9.54	8.010		0.4	92.5
20.0		4.09	280	12.12	8.040	0.7		92.5
30.0		4.06	281	11.92	8.070	0.4	0.3	92.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	29.0	0.064	0.001	0.010		200E00	000E00
3.0						0.000		
10.0	133.0	29.0	0.365	0.005	0.005		110E01	
20.0	133.0	28.5	0.506	0.014	0.045		000E00	
30.0	134.0	28.5	0.511	0.014	0.050		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	130E02	600E00
3.0		
10.0		
20.0		
30.0	300E01	200E01

C-REF-NO 010
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-06N
 LON 078-56-33W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 0242

NO. DEPTHS 07
 SOUNDING 0128
 BT SLIDE NO 072

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.02	271	11.13	8.490	1.3	1.2	87.0
10.0		11.39	275	11.56	8.280	0.9	0.8	90.0
20.0		5.85	280	12.29	8.100	0.2	0.4	91.5
30.0		4.21	278	12.67	8.100	0.3	0.3	91.5
50.0		4.13	278	12.78	8.130	0.2	0.3	92.0
75.0		4.09	280	12.86	8.150	0.1	0.1	91.5
100.0		3.95	279	13.00	8.150	0.2	0.3	91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	28.5	0.074	0.001	0.010		500E00	100E00
10.0	130.0	28.5	0.287	0.003	0.010		600E00	
20.0	132.0	28.5	0.451	0.004	0.020		000E00	
30.0	132.0	28.5	0.496	0.009	0.055		000E00	
50.0	132.0	28.5	0.502	0.003	0.040		200E00	
75.0	132.0	28.0	0.502	0.008	0.050		000E00	
100.0	132.0	28.0	0.503	0.007	0.030		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	140E02	300E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	170E01	290E01

ICG-REF-NO 010
 ICONS. NO 049
 ICOUNTRY 18
 IINSTITUTE 22

.LAT 43-30-48N
 .LON 079-11-06W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 0431

NO. DEPTHS 07
 SOUNDING 0132
 BT SLIDE NO 073

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.77	271	10.44	8.440	1.5	0.5	87.0
10.0		16.53	275	10.68	8.320	0.8	0.5	89.0
20.0		16.30	278	12.21	8.090	0.3	0.2	91.5
30.0		14.31	281	12.64	8.090	0.2	0.3	91.5
50.0		14.04	279	12.84	8.120	0.1	0.2	91.5
75.0		13.95	278	12.92	8.120	0.0	0.1	91.5
100.0		13.88	282	12.92	8.130	0.0	0.1	91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	29.0	0.098	0.002	0.005		100E00	200E00
10.0	129.0	29.0	0.222	0.003	0.020		500E00	
20.0	131.5	28.5	0.478	0.007	0.015		200E00	
30.0	132.0	28.5	0.501	0.009	0.015		000E00	
50.0	133.0	28.5	0.504	0.006	0.015		200E00	
75.0	132.0	29.0	0.502	0.008	0.025		000E00	
100.0	132.0	28.5	0.503	0.007	0.025		100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	800E01	180E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	300E01	130E01

C-REF-NO 010
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 43-41-48N
 LON 079-10-00W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 0615

NO. DEPTHS 05
 SOUNDING 0038
 BT SLIDE NO 075

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		18.60	270	11.07	8.590	0.8	0.7	88.5
3.0								
10.0		12.48	276	10.90	8.210	0.8		90.5
20.0		4.69	281	11.53	8.060	0.3		92.0
30.0		4.26	282	11.67	8.050	0.3		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.5	28.0	0.074	0.001	0.005		100E00	
3.0						0.000		
10.0	131.0	28.5	0.227	0.003	0.005		110E01	
20.0	132.0	28.5	0.488	0.012	0.045		100E00	
30.0	137.0	28.5	0.507	0.013	0.040		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	290E02	170E02
3.0		
10.0		
20.0		
30.0	350E01	230E01

C-REF-NO 010
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-30N
 LON 079-24-57W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 0803

NO. DEPTHS 05
 SOUNDING 0038
 BT SLIDE NO 076

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		16.35	277	12.59	8.610	1.1		90.5
10.0		11.70	279	9.57	8.060	0.2		91.0
19.0		5.66	281	11.21	8.030	0.2		91.5
29.0		4.49	280	11.43	8.000	0.2		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	129.5	29.0	0.078	0.002	0.070			
10.0	132.0	28.5	0.301	0.004	0.005			
19.0	132.0	28.5	0.452	0.008	0.010			
29.0	132.0	28.5	0.487	0.013	0.055			

DEPTH	SPC 20	SPC 35
1.0		
10.0		
19.0		
29.0		

C-REF-NO 010
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 43-25-15N
 LON 079-26-21W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1000

NO. DEPTHS 07
 SOUNDING 0106
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.88	272	11.53	8.610	0.7	1.4	87.5
3.0								
10.0		8.36	277	11.71	8.140	0.3	1.3	89.5
20.0		4.73	279	12.06	8.040	0.2	0.2	90.0
30.0		4.35	279	12.45	8.090	0.1	0.3	89.5
50.0		4.12	278	12.62	8.100	0.2	0.2	89.5
75.0		3.90	278	12.64	8.130	0.1	0.5	89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	28.5	0.074	0.001	0.015		000E00	000E00
3.0						0.000		
10.0	131.0	28.5	0.345	0.005	0.005		100E00	
20.0	131.0	28.5	0.487	0.008	0.005		000E00	
30.0	131.0	28.0	0.497	0.003	0.005		100E00	
50.0	131.5	28.0	0.496	0.004	0.025		100E00	
75.0	131.5	28.0	0.497	0.003	0.050		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	220E02	160E02
3.0		
10.0		
20.0		
30.0		
50.0		
75.0	180E01	130E01

C-REF-NO 010
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-45N
 LON 079-41-00W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1146

NO. DEPTHS 05
 SOUNDING 0050
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.8	18.09	271	12.12	8.640	0.6	1.4	87.0
3.0								
10.0		13.37	279	10.24	8.280	0.4	1.4	90.0
20.0		8.04	281		8.180	0.5	0.9	90.5
30.0		5.14	280		8.070	0.5	0.7	90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	28.5	0.074	0.001	0.005		200E00	200E00
3.0						0.000		
10.0	131.0	28.5	0.237	0.003	0.035		120E01	
20.0	134.0	27.5	0.372	0.003	0.015		200E00	
30.0	133.0	28.0	0.456	0.004	0.015		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	290E01
3.0		
10.0		
20.0		
30.0	900E01	190E01

C-REF-NO 010
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 43-14-30N
 LON 079-26-57W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1316

NO. DEPTHS 04
 SOUNDING 0027
 BT SLIDE NO 081

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		17.38	270	11.98	8.630	0.3	1.3	87.0
3.0								
10.0		11.29	277	11.82	8.340	0.6		89.0
20.0		7.01	280	11.67	8.150	0.3		90.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	28.5	0.078	0.002	0.010		000E00	000E00
3.0						0.001		
10.0	130.5	29.0	0.266	0.004	0.010		300E00	
20.0	131.0	28.5	0.405	0.005	0.070		100E00	

DEPTH	SPC 20	SPC 35
1.0	550E01	200E01
3.0		
10.0		
20.0		

C-REF-NO 010
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 43-13-06N
 LON 079-20-06W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1422

NO. DEPTHS 02
 SOUNDING 0020
 BT SLIDE NO 082

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	18.71	271	11.84	8.640	0.4	1.4	86.0
10.0		14.85	274	11.04	8.480	0.5		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	28.5	0.077	0.003	0.020		390E01	500E00
10.0	129.0	28.5	0.171	0.004	0.115		100E01	

DEPTH	SPC 20	SPC 35
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1.0		
10.0		

C-REF-NO 010
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 43-16-12N
 LON 079-20-09W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1643

NO. DEPTHS 05
 SOUNDING 0062
 BT SLIDE NO 083

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.0	16.75	270	12.23	8.690	0.6	1.0	86.0
10.0		9.74	279	12.54	8.370	0.2		90.0
20.0		7.04	281	11.60	8.100	0.3		91.0
30.0		5.30	280	11.48	8.010	0.2		89.0
50.0		4.41	281	11.35	7.990	0.3		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	28.5	0.079	0.001	0.010		100E00	100E00
10.0	132.0	28.5	0.315	0.005	0.020		550E01	
20.0	132.0	29.0	0.426	0.004	0.015		300E00	
30.0	132.0	29.0	0.488	0.007	0.015		200E00	
50.0	133.0	28.5	0.501	0.009	0.035		500E00	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0

C-REF-NO: 010
 CONS. NO: 057
 COUNTRY: 18
 INSTITUTE: 22

LAT: 43-14-30N
 LON: 079-16-36W

YEAR: 1966
 MONTH: 08
 DAY: 06
 TIME: 1726

NO. DEPTHS: 02
 SOUNDING: 0024
 BT SLIDE NO: 084

DEPTH	SECCHI	TEMP	CON: 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	18.95	278	10.74	8.370		1.7	87.5
10.0		12.31	276	11.20	8.360	1.7		89.5

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	129.5	29.0	0.084	0.001	0.070		640E02	550E01
10.0	130.0	29.0	0.235	0.005	0.075		110E03	

DEPTH: SPC 20 SPC 35

1.0
 10.0

C-REF-NO 010
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 43-17-36N
 LON 079-16-24W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1817

NO. DEPTHS 06
 SOUNDING 0090
 BT SLIDE NO 085

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.5	18.02	268	12.53	8.610	1.9	1.3	84.5
10.0		8.04	280	11.62	8.140	0.8		91.0
20.0		4.79	279	12.07	8.030	0.2		91.0
30.0		4.43	279	12.94	8.090	0.2		91.5
50.0		4.01	279	12.78	8.100	0.4		91.5
75.0		3.91	282	11.98	8.060	0.2		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	29.0	0.106	0.004	0.010		300E00	000E00
10.0	130.0	28.5	0.351	0.004	0.025		100E00	
20.0	130.0	28.5	0.470	0.010	0.015		100E00	
30.0	131.0	28.5	0.482	0.003	0.010		100E00	
50.0	131.0	28.5	0.483	0.002	0.040		100E00	
75.0	132.0	28.5	0.505	0.005	0.065		100E00	100E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-27N
 LON 079-20-00W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1858

NO. DEPTHS 06
 SOUNDING 0095
 BT SLIDE NO 086

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	1.8	20.37	269	10.59	8.480			84.5
10.0		8.14	277	11.56	8.140	0.3		91.0
20.0		4.90	279	11.79	8.000	0.2		91.0
30.0		4.54	279	12.29	8.090	0.2		91.5
50.0		4.07	279	12.78	8.140	0.2		
75.0		3.91	278	12.32	8.090	0.2		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	29.0	0.074	0.001	0.005		600E00	600E00
10.0	130.0	29.0	0.353	0.002	0.010		800E00	
20.0	130.5	29.0	0.472	0.008	0.010		000E00	
30.0	131.0	29.0	0.484	0.001	0.020		000E00	
50.0	130.0	28.5	0.488	0.002	0.050		100E00	
75.0	131.0	28.5	0.500	0.005	0.050		100E00	

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-33N
 LON 079-16-30W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 1942

NO. DEPTHS 06
 SOUNDING 0099
 BT SLIDE NO 087

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	19.11	269	11.29	8.500		1.2	85.0
10.0		6.26	277	11.43	8.080	0.9		91.5
20.0		4.91	279	12.12	8.070	0.2		91.5
30.0		4.42	279	12.51	8.140	0.2		91.5
50.0		4.09	280	12.86	8.120	0.2		91.5
75.0		3.98	278	12.43	8.090	0.3		91.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	29.5	0.089	0.001	0.010		500E00	000E00
10.0	131.0	28.5	0.377	0.003	0.015		150E01	
20.0	131.0	28.5	0.472	0.013	0.005		300E00	
30.0	133.0	28.0	0.488	0.002	0.010		300E00	
50.0	132.0	28.5	0.493	0.002	0.035		200E00	
75.0	132.0	28.0	0.509	0.001	0.045		300E00	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-27N
 LON 079-15-36W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 2022

NO. DEPTHS 06
 SOUNDING 0110
 BT SLIDE NO 088

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.0	19.95	268	10.77	8.320	1.2	0.8	86.0
10.0		8.72	277	11.21	8.090	0.5		92.0
20.0		5.28	278	12.17	8.090	0.2		90.5
30.0		4.50	278	12.64	8.050	0.3		92.0
50.0		4.03	278	12.59	8.120	0.2		92.0
75.0		3.91	278	12.54	8.080	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	29.0	0.074	0.001	0.090		000E00	400E00
10.0	130.0	28.0	0.363	0.002	0.020		400E00	
20.0	131.0	28.0	0.469	0.016	0.020		500E00	
30.0	134.0	28.0	0.492	0.008	0.035		800E00	
50.0	132.0	28.5	0.494	0.001	0.080		500E00	
75.0	130.5	28.0	0.497	0.003	0.075		300E00	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1966
 MONTH 08
 DAY 06
 TIME 2113

NO. DEPTHS 06
 SOUNDING 0102
 BT SLIDE NO 089

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	20.09	266	12.39	8.380	0.9	1.2	86.0
10.0		10.47	275	11.28	8.190	0.3		91.0
20.0		5.20	278	12.00	8.100	0.2		92.0
30.0		4.34	278		8.040	0.6		93.0
50.0		4.08	277	12.79	8.080	0.2		92.5
75.0		3.96	279	12.53	8.120	0.2		93.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	28.5	0.088	0.002	0.010		100E00	
10.0	130.0	28.5	0.258	0.002	0.010		600E00	
20.0	130.0	28.0	0.441	0.009	0.005		400E00	
30.0	132.0	28.0	0.463	0.002	0.010		700E00	
50.0	134.0	28.5	0.474	0.001	0.025		400E00	
75.0	130.0	28.5	0.474	0.001	0.035		000E00	100E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-24N
 LON 079-12-48W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 2206

NO. DEPTHS 05
 SOUNDING 0080
 BT SLIDE NO 090

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.25	270	11.51	8.530	0.5	1.2	88.5
10.0		14.28	273	12.25	8.440	0.4		90.0
20.0		6.08	270	11.51	8.020	0.2		93.0
30.0		4.46	279	12.25	8.120	0.2		92.0
50.0		3.93	279	12.61	8.070	0.2		92.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	29.0	0.084	0.001	0.005		200E00	100E00
10.0	129.0	29.0	0.203	0.002	0.015		100E00	
20.0	131.0	28.5	0.403	0.002	0.015		000E00	
30.0	132.0	28.0	0.449	0.001	0.025		400E00	
50.0	134.0	28.0	0.464	0.001	0.085		200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	110E02	270E02
10.0		
20.0		
30.0		
50.0	400E01	150E02

C-REF-NO 010
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 43-16-51N
 LON 079-09-15W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 2248

NO. DEPTHS 02
 SOUNDING 0013
 BT SLIDE NO 091

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.39	278	9.52	8.440	0.6		90.5
10.0		15.56	272	11.35	8.440	0.7		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	29.5	0.124	0.001	0.025			
10.0	130.0	28.5	0.123	0.002	0.015			

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 010
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-06N
 LON 079-09-06W

YEAR 1966
 MONTH 08
 DAY 06
 TIME 2331

NO. DEPTHS 05
 SOUNDING 0082
 BT SLIDE NO 092

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.50	275	10.43	8.530	0.9	1.3	89.0
10.0		13.32	276	11.90	8.370	0.5		89.0
20.0		5.95	281	11.54	8.140	0.4		90.0
30.0		4.60	278	11.59	8.150	0.3		91.0
50.0		4.44	280	11.96	8.050	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.5	27.5		0.002	0.010		350E02	000E00
10.0	129.5	27.0		0.003	0.015		120E01	
20.0	135.0	26.5		0.009	0.055		190E01	
30.0	133.5	27.0		0.013	0.010		240E01	
50.0	134.0	26.5		0.012	0.040		170E01	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 010
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0019

NO. DEPTHS 01
 SOUNDING 0013
 BT SLIDE NO 093

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		24.07	277	10.65	8.430	0.6	1.6	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	129.0	27.5		0.004	0.020		120E02	

DEPTH	SPC 20	SPC 35
1.0		

C-REF-NO 010
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 43-21-09N
 LON 079-05-21W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0053

NO. DEPTHS 06
 SOUNDING 0088
 BT SLIDE NO 094

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		23.85	277	9.71	8.500	1.2	1.2	87.0
10.0		14.66	275	11.37	8.320	0.7		88.0
20.0		5.50	279	12.17	8.080	0.5		90.0
30.0		4.42	279	12.35	8.080	0.4		90.0
50.0		3.99	278	12.65	8.100	0.3		90.0
75.0		4.08	281	11.61	8.090	0.2		91.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5			0.004	0.025		110E01	000E00
10.0	129.0	26.5		0.006	0.015		200E02	
20.0	135.0	27.0		0.010	0.010		700E01	
30.0	135.5	26.5		0.011	0.005		160E01	
50.0	136.0	26.0		0.008	0.035		400E00	
75.0	136.5	26.0		0.011	0.025		410E01	200E00

DEPTH	SPC 20	SPC 35
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1.0
 10.0
 20.0
 30.0
 50.0
 75.0

C-REF-NO 010
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-57N
 LON 079-08-54W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0142

NO. DEPTHS 07
 SOUNDING 0108
 BT SLIDE NO 095

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.14	269	10.72	8.450	1.0	1.8	84.0
10.0		6.84	278	11.78	8.210	0.2		89.0
20.0		5.19	278	12.56	8.160	0.3		90.0
30.0		4.42	278	12.15	8.150	0.1		90.0
50.0		4.00	278	12.84	8.070	0.0		90.0
75.0		3.90	279	12.78	8.150	0.2		90.0
100.0		3.91	279	12.68	8.160	0.1		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	26.5		0.002	0.005		400E00	200E00
10.0	135.0	26.5		0.020	0.010		100E01	
20.0	134.5	26.5		0.014	0.050		700E00	
30.0	134.0	26.0		0.019			700E00	
50.0	134.5	26.0		0.008	0.045		110E01	
75.0	135.5	25.5		0.007			300E00	
100.0	135.0	27.0		0.008	0.160		700E00	000E00

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

C-REF-NO 010
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-09N
 LON 079-05-12W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0232

NO. DEPTHS 07
 SOUNDING 0113
 BT SLIDE NO 096

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.56	269	10.82	8.430	1.2	1.0	84.0
10.0		7.43	277	11.87	8.240	0.2		90.0
20.0		4.90	277	12.54	8.130	0.2		90.0
30.0		4.29	279	12.78	8.180	0.1		90.0
50.0		3.94	279	13.00	8.140	0.0		90.0
75.0		3.94	278	12.81	8.210	0.0		90.0
100.0		3.91	278	12.73	8.130	0.2		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	29.0		0.003	0.005		000E00	400E00
10.0	134.5	26.0		0.010	0.065		000E00	
20.0	136.5	26.5		0.025	0.020		100E01	
30.0	135.0	26.0		0.011	0.040		100E01	
50.0	135.0	26.0		0.007	0.065		000E00	
75.0	134.5	26.0		0.007	0.050		100E01	
100.0	135.0	26.0		0.007	0.065		000E00	100E00

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

C-REF-NO 010
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-45N
 LON 079-01-45W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0315

NO. DEPTHS 06
 SOUNDING 0099
 BT SLIDE NO 097

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T. ALK
1.0		22.61	274	10.57	8.500	0.5	1.1	87.0
10.0		16.15	273	11.84	8.370	0.9		86.0
20.0		5.78	279	12.37	8.160	0.4		88.0
30.0		4.75	280	12.70	8.140	0.0		90.0
50.0		4.05	280	12.94	8.200	0.0		90.0
75.0		3.89	280	12.47	8.120	0.1		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	26.0		0.004	0.015		000E00	000E00
10.0	129.0	26.5		0.005	0.030		000E00	
20.0	135.0	26.5		0.015	0.080		100E01	
30.0	135.0	26.5		0.011	0.035		000E00	
50.0	134.5	25.5		0.007	0.055		000E00	
75.0	138.0	26.0		0.010	0.060		000E00	

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		

C-REF-NO 010
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-27N
 LON 079-01-54W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0400

NO. DEPTHS 02
 SOUNDING 0015
 BT SLIDE NO 098

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		23.05	279	10.87	8.620	0.8	1.3	87.0
10.0		20.93	280	10.21	8.430	0.8		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.0		0.003	0.030		100E01	000E00
10.0	130.0	26.0		0.005	0.020		160E02	

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 010
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 43-17-30N
 LON 079-01-54W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0427

NO. DEPTHS 01
 SOUNDING 0006
 BT SLIDE NO 099

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		23.61	276	10.73	8.610	0.7	1.7	87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5		0.004	0.005		000E00	000E00

DEPTH	SPC 20	SPC 35
1.0		

1.0

C-REF-NO 010
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 43-17-57N
 LON 078-58-45W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0504

NO. DEPTHS 01
 SOUNDING 0012
 BT SLIDE NO 100

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.60	277	10.57	8.590	0.7	1.4	87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5		0.004	0.025		900E01	200E00

DEPTH	SPC 20	SPC 35
1.0		

C-REF-NO 010
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 43-21-03N
 LON 078-58-27W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0542

NO. DEPTHS 05
 SOUNDING 0070
 BT SLIDE NO 101

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.12	280	10.49	8.480	0.7	1.3	86.0
10.0		17.28	271	11.29	8.450	0.9		83.0
20.0		6.23	285	10.71	8.010	0.4		89.0
30.0		5.89	283	11.01	8.010	0.2		90.0
50.0		4.04	282	12.57	8.120	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	27.0		0.004	0.060		350E01	000E00
10.0	127.0	28.0		0.003	0.060		130E01	
20.0	140.0	27.5		0.010	0.020		200E00	
30.0	138.5	26.5		0.011	0.045		120E01	
50.0	136.0	26.5		0.010	0.035		400E00	100E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 010
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-09N
 LON 078-58-03W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0637

NO. DEPTHS 07
 SOUNDING 0110
 BT SLIDE NO 102

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.62	272	10.74	8.510	1.2	0.7	83.0
10.0		13.40	275	10.93	8.260	0.4	0.9	86.0
20.0		5.09	280	12.45	8.160	0.2	0.5	88.0
30.0		4.32	281	12.64	8.130	0.1	0.7	88.0
50.0		3.97	280	12.98	8.140	0.2	0.8	88.0
75.0		3.88	279	12.92	8.140	0.1	0.2	88.0
100.0		3.83	281	11.73	8.080	0.2	0.3	89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5		0.003	0.005		800E00	000E00
10.0	131.5	26.0		0.006	0.010		170E01	
20.0	136.5	25.5		0.022	0.085		120E01	
30.0	137.5	26.0		0.017	0.035		100E01	
50.0	136.0	26.0		0.010			600E00	
75.0	135.5	26.0		0.008	0.060		200E00	
100.0	138.0	26.0		0.012	0.075		140E01	000E00

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

C-REF-NO 010
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-24N
 LON 078-54-24W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0726

NO. DEPTHS 06
 SOUNDING 0093
 BT SLIDE NO 103

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.05	270	10.65	8.460	1.0	1.0	83.0
10.0		11.51	276	10.81	8.190	1.1		87.0
20.0		6.07	280	11.74	8.050	0.6		89.0
30.0		4.75	280	12.15	8.080	0.5		89.0
50.0		4.03	280	12.84	8.090	0.2		89.0
75.0		3.96	283	11.57	8.040	0.3		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0			0.005		800E00	100E00
10.0	132.5	26.5			0.005		140E01	
20.0	137.0	26.0			0.020		140E01	
30.0	136.5	26.0			0.010		600E00	
50.0	135.5	26.0			0.040		900E00	
75.0	138.0	26.5			0.060		180E01	900E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		

C-REF-NO 010
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0807

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 104

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.46	276	10.26	8.500	0.8	1.1	86.0
10.0		15.54	273	11.82	8.510	0.7		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.0		0.002	0.010		160E02	000E00
10.0	128.5	26.0		0.004	0.050		140E02	

DEPTH	SPC 20	SPC 35
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1.0
 10.0

C-REF-NO 010
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-36N
 LON 078-50-57W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0849

NO. DEPTHS 04
 SOUNDING 0039
 BT SLIDE NO 105

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.30	276	10.41	8.530	0.8	1.0	86.0
10.0		15.06	273	11.59	8.470	0.9		86.0
20.0		8.93	283	10.93	8.200	0.7		89.0
30.0		6.24	284	10.95	8.080	0.7		90.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	26.5		0.003	0.010		250E01	
10.0	128.5	26.5		0.007	0.015		260E01	
20.0	136.0	26.5		0.008	0.015		810E01	
30.0	138.0	26.0		0.009	0.015		540E01	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 010
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-54N
 LON 078-50-48W

YEAR 1966
 MONTH 08
 DAY 07
 TIME 0941

NO. DEPTHS 06
 SOUNDING 0104
 BT SLIDE NO 106

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.81	271	10.59	8.460	1.2	0.9	83.0
10.0		10.98	277	11.53	8.290	0.4		87.0
20.0		5.76	282	11.68	8.140	0.4		88.0
30.0		4.68	279	12.53	8.140	0.4		88.0
50.0		4.06	280	12.68	8.150	0.3		88.0
75.0		3.92	281	12.29	8.140	0.5		89.0

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	126.0	27.0		0.002	0.015		140E01	700E00
10.0	133.5	27.0		0.006	0.025		420E01	
20.0	137.0	26.5		0.010	0.020		180E01	
30.0	134.5	26.0		0.012	0.010		200E00	
50.0	137.0	26.0		0.009	0.040		160E01	
75.0	138.0	26.5		0.008	0.050		100E01	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0