



1966

LIMNOLOGICAL DATA REPORT NO. 6

LAKE ONTARIO

CRUISE 66 - 7, JULY 12 - 15

CRUISE 66 - 8, JULY 19 - 24

PUBLISHED BY
CANADIAN OCEANOGRAPHIC DATA CENTRE

CANADA CENTRE FOR INLAND WATERS

BURLINGTON • ONTARIO

Programmed by

GREAT LAKES DIVISION

INLAND WATERS BRANCH

DEPARTMENT of ENERGY, MINES & RESOURCES

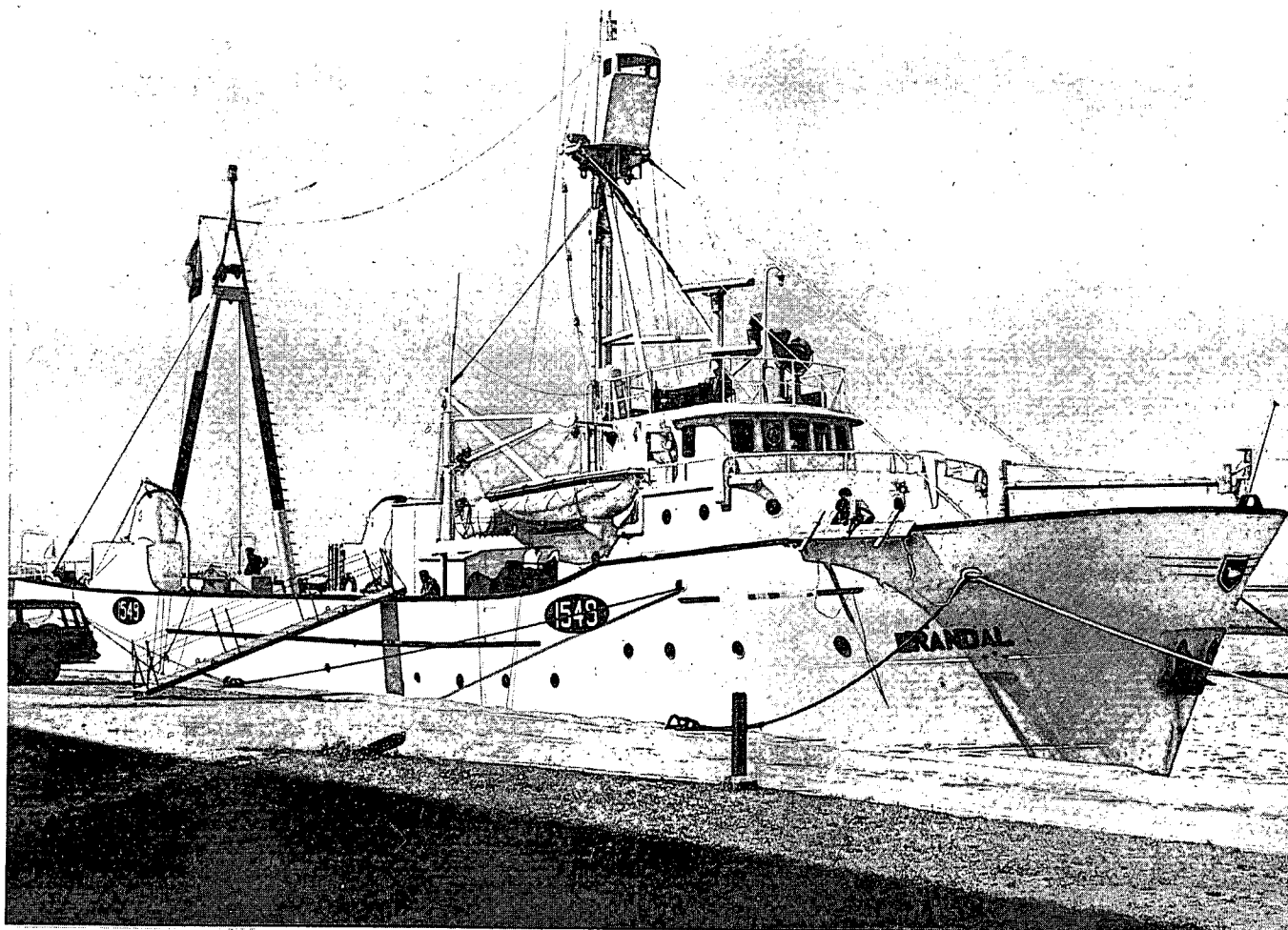
and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

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M.V. "Brandal"



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LAKE ONTARIO

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CRUISE 66 - 8, JULY 19 - 24

1966

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

Published by
CANADIAN OCEANOGRAPHIC DATA CENTRE
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.

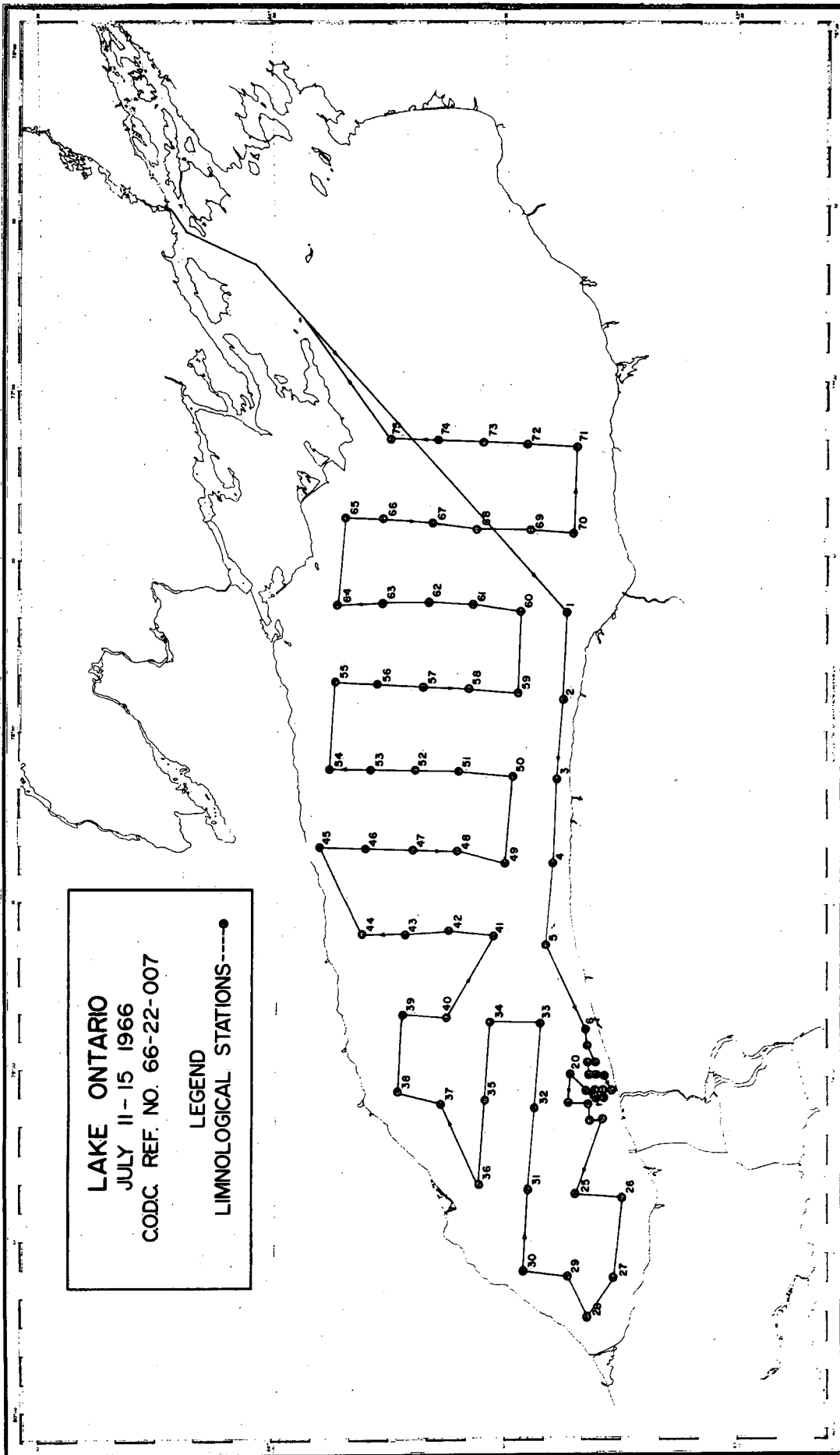
The 1966 surveys were carried out by the Great Lakes Division (Inland Waters Branch) and the Canadian Hydrographic Service (Marine Sciences Branch), both of which are Branches of the Department of Energy, Mines and Resources, and by the Public Health Engineering Division of the Department of National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

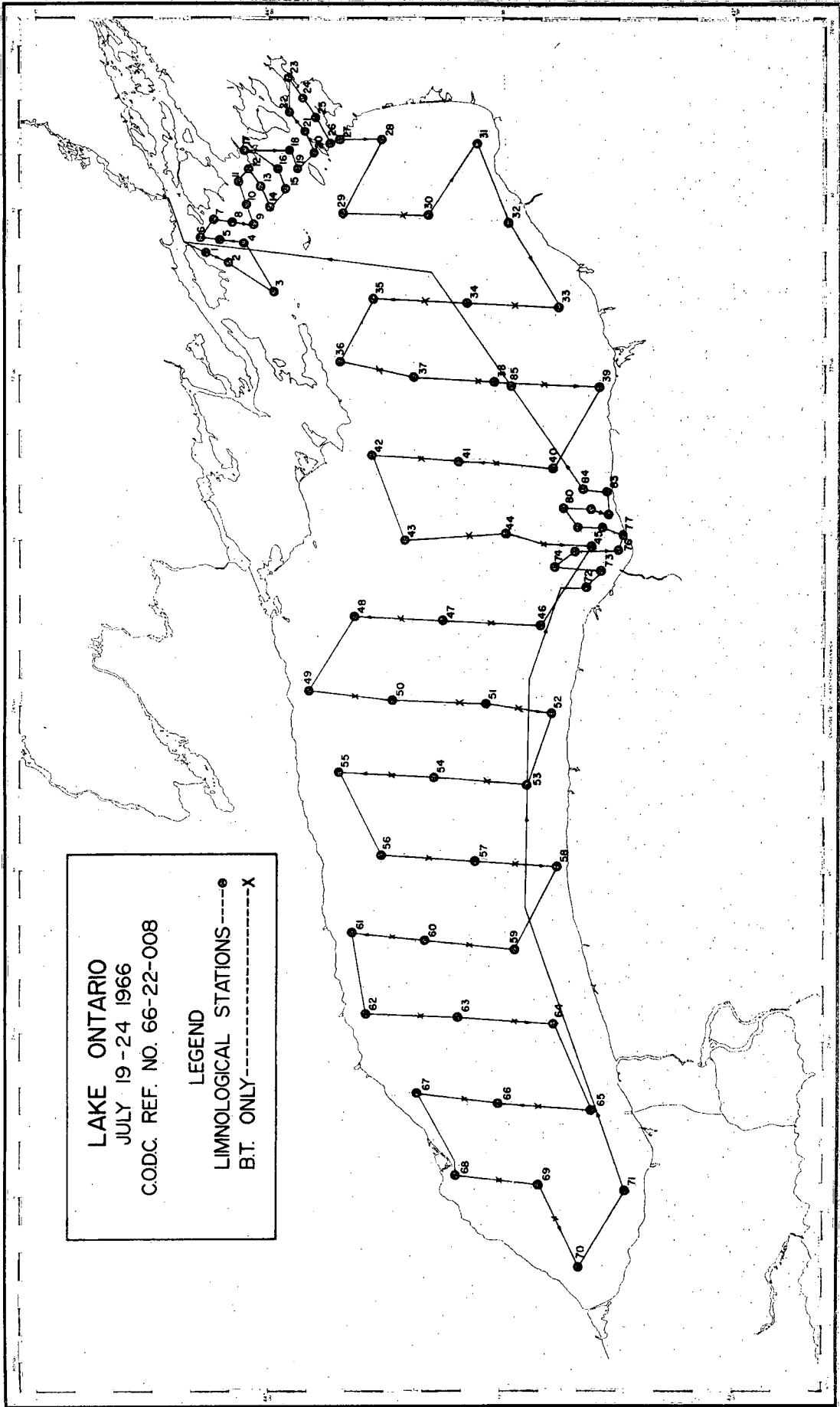
Water-quality data gathered during eighteen cruises in 1966 are contained in twelve separate reports in the present series. Not reported on is a nineteenth cruise, from August 23 to 28, which was for seismic purposes only. Supplementary bathythermograph data and weather data are available on request 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 19 - 24 1966
 C.O.D.C. REF. NO. 66-22-008

LEGEND
 LIMNOLOGICAL STATIONS ---●---
 B.T. ONLY ---X---

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	
	X	X	X	X	X	X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		X	X	X	
	X	X	X	X		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	SECGHI	meters	1	026	030
Sample depth	DEPTH	meters	1	998	001
Temperature	TEMP	°C	2	004	100
Conductance, 18°C.	CON 18	µmhos	0	014	no equivalent
Dissolved oxygen	D 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	220
Hardness	HARD	mg CaCO ₃ /L	1	050	300
Chloride	CL	mg/L	1	057	290
Nitrate + nitrite	NO3NO2	mg N/L	3	022	275
Nitrite	NO2	mg N/L	3	021	273
Reactive phosphate	R PO4	mg PO ₄ /L	3	028	262
Phenol	PHEN	mg C 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

Note: The four bacteriological parameters are listed in exponential form: * Exponential Notation

$$130E02 = 1.30 \times 10^2 = 130.$$

$$100E00 = 1.00 \times 10^0 = 1.$$

$$000E00 = 0.00 \times 10^0 = 0.$$

Note: For some parameters, the analytical methods listed in the Star System manual (Glennie and MacLeod 1967, pp. 23-55) 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 cruise 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 cruises 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 66-7, LAKE ONTARIO

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

LAT 43-22-54N
 LON 077-39-18W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 0034

NO. DEPTHS 01
 SOUNDING 0077
 BT SLIDE NO 001

DEPTH CON 18 D 02 PH 25
 72.0 276 12.44 7.890

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

LAT 43-23-51N
 LON 077-53-57W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 0208

NO. DEPTHS 01
 SOUNDING 0049
 BT SLIDE NO 002

DEPTH CON 18 D 02 PH 25
 44.0 279 11.94 8.000

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

LAT 43-24-24N
 LON 078-07-36W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 0350

NO. DEPTHS 01
 SOUNDING 0048
 BT SLIDE NO 003

DEPTH CON 18 D 02 PH 25
 43.0 278 12.46 7.940

C-REF-NO 007	LAT 43-25-06N	YEAR 1966	NO. DEPTHS 01
CONS. NO 004	LON 078-22-21W	MONTH 07	SOUNDING 0068
COUNTRY 18		DAY 12	BT SLIDE NO 004
INSTITUTE 22		TIME 0531	

DEPTH CON 18	D 02	PH 25	
63.0	279	12.46	7.930

C-REF-NO 007	LAT 43-25-54N	YEAR 1966	NO. DEPTHS 01
CONS. NO 005	LON 078-36-57W	MONTH 07	SOUNDING 0121
COUNTRY 18		DAY 12	BT SLIDE NO 005
INSTITUTE 22		TIME 0703	

DEPTH CON 18	D 02	PH 25	
116.0	280	12.30	7.990

C-REF-NO 007	LAT 43-20-30N	YEAR 1966	NO. DEPTHS 01
CONS. NO 006	LON 078-52-18W	MONTH 07	SOUNDING 0026
COUNTRY 18		DAY 12	BT SLIDE NO 006
INSTITUTE 22		TIME 0853	

DEPTH CON 18	D 02	PH 25	
21.0	279	12.32	7.990

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

LAT 43-19-51N
 LON 078-54-54W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1115

NO. DEPTHS 01
 SOUNDING 0024
 BT SLIDE NO 008

DEPTH CON 18 D 02 PH 25
 19.0 279 11.68 8.290

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

LAT 43-19-36N
 LON 078-54-54W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1200

NO. DEPTHS 01
 SOUNDING 0016
 BT SLIDE NO 009

DEPTH CON 18 D 02 PH 25
 11.0 279 10.81 8.030

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

LAT 43-19-06N
 LON 078-57-36W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1255

NO. DEPTHS 01
 SOUNDING 0013
 BT SLIDE NO 010

DEPTH CON 18 D 02 PH 25
 8.0 274 8.83 8.390

C-REF-NO 007	LAT 43-20-00N	YEAR 1966	NO. DEPTHS 01
CONS. NO 010	LON 078-57-30W	MONTH 07	SOUNDING 0042
COUNTRY 18		DAY 12	BT SLIDE NO 011
INSTITUTE 22		TIME 1326	

DEPTH CON 18	D 02	PH 25
37.0 279	12.02	8.030

C-REF-NO 007	LAT 43-19-57N	YEAR 1966	NO. DEPTHS 01
CONS. NO 011	LON 079-00-00W	MONTH 07	SOUNDING 0040
COUNTRY 18		DAY 12	BT SLIDE NO 012
INSTITUTE 22		TIME 1412	

DEPTH CON 18	D 02	PH 25
35.0 278	11.14	8.030

C-REF-NO 007	LAT 43-18-57N	YEAR 1966	NO. DEPTHS 01
CONS. NO 012	LON 079-00-00W	MONTH 07	SOUNDING 0011
COUNTRY 18		DAY 12	BT SLIDE NO 013
INSTITUTE 22		TIME 1445	

DEPTH CON 18	D 02	PH 25
6.0 273	9.08	8.390

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

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

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1528

NO. DEPTHS 01
 SOUNDING 0011
 BT SLIDE NO 014

DEPTH CON 18 D 02 PH 25
 6.0 275 10.30 8.370

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

LAT 43-17-00N
 LON 079-02-54W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1638

NO. DEPTHS 01
 SOUNDING 0006
 BT SLIDE NO 015

DEPTH CON 18 D 02 PH 25
 1.0 272 8.27 8.420

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

LAT 43-18-00N
 LON 079-02-33W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1655

NO. DEPTHS 01
 SOUNDING 0007
 BT SLIDE NO 016

DEPTH CON 18 D 02 PH 25
 2.0 274 8.74 8.410

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

LAT 43-18-06N
 LCN 079-03-42W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1726

NO. DEPTHS 01
 SOUNDING 0006
 BT SLIDE NO 017

DEPTH CON 18 D 02 PH 25

1.0 275 8.62 8.470

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

LAT 43-19-06N
 LON 079-03-36W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1751

NO. DEPTHS 01
 SOUNDING 0012
 BT SLIDE NO 018

DEPTH CON 18 D 02 PH 25

7.0 281 10.91 8.010

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

LAT 43-19-06N
 LON 079-02-24W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1828

NO. DEPTHS 01
 SOUNDING 0012
 BT SLIDE NO 019

DEPTH CON 18 D 02 PH 25

5.0 281 11.02 7.980

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

LAT 43-20-12N
 LON 079-02-36W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1905

NO. DEPTHS 01
 SOUNDING 0064
 BT SLIDE NO 020

DEPTH CON 18 D 02 PH 25
 59.0 280 12.35 8.060

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

LAT 43-22-36N
 LON 078-59-48W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 1950

NO. DEPTHS 01
 SOUNDING 0096
 BT SLIDE NO 021

DEPTH CON 18 D 02 PH 25
 91.0 280 10.42 8.070

C-REF-NO 007
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-42N
 LON 079-04-42W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 2050

NO. DEPTHS 01
 SOUNDING 0101
 BT SLIDE NO 022

DEPTH CON 18 D 02 PH 25
 96.0 279 11.97 8.030

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

LAT 43-20-00N
 LON 079-04-48W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 2157

NO. DEPTHS 01
 SOUNDING 0068
 BT SLIDE NO 023

DEPTH CON 18 D 02 PH 25
 63.0 279 10.85 8.170

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

LAT 43-20-09N
 LON 079-07-18W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 2248

NO. DEPTHS 01
 SOUNDING 0073
 BT SLIDE NO 024

DEPTH CON 18 D 02 PH 25
 68.0 279 12.55 8.070

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

LAT 43-18-00N
 LON 079-07-36W

YEAR 1966
 MONTH 07
 DAY 12
 TIME 2345

NO. DEPTHS 01
 SOUNDING 0011
 BT SLIDE NO 025

DEPTH CON 18 D 02 PH 25
 6.0 279 11.57 8.070

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

LAT 43-21-54N
 LON 079-20-00W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0140

NO. DEPTHS 01
 SOUNDING 0102
 BT SLIDE NO 026

DEPTH CON 18 D 02 PH 25
 97.0 280 11.42 8.000

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

LAT 43-15-33N
 LON 079-20-42W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0303

NO. DEPTHS 01
 SOUNDING 0041
 BT SLIDE NO 027

DEPTH CON 18 D 02 PH 25
 36.0 341 11.98 8.040

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

LAT 43-16-30N
 LON 079-34-48W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0432

NO. DEPTHS 01
 SOUNDING 0040
 BT SLIDE NO 028

DEPTH CON 18 D 02 PH 25
 35.0 276 11.47 8.090

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

LAT 43-19-48N
 LON 079-41-36W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0522

NO. DEPTHS 01
 SOUNDING 0051
 BT SLIDE NO 029

DEPTH CON 18 D 02 PH 25
 46.0 282 12.34 8.230

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

LAT 43-22-12N
 LON 079-34-18W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0614

NO. DEPTHS 01
 SOUNDING 0082
 BT SLIDE NO 030

DEPTH CON 18 D 02 PH 25
 77.0 285 11.22 8.180

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

LAT 43-28-39N
 LON 079-33-45W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 0706

NO. DEPTHS 01
 SOUNDING 0044
 BT SLIDE NO 031

DEPTH CON 18 D 02 PH 25
 39.0 280 12.61 8.220

C-REF-NO 007	LAT 43-27-48N	YEAR 1966	NO. DEPTHS 01
CONS. NO 031	LON 079-19-54W	MONTH 07	SOUNDING 0119
COUNTRY 18		DAY 13	BT SLIDE NO 032
INSTITUTE 22		TIME 0831	

DEPTH CON 18	D 02	PH 25
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114.0	283	11.98	8.180
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C-REF-NO 007	LAT 43-27-00N	YEAR 1966	NO. DEPTHS 01
CONS. NO 032	LON 079-05-42W	MONTH 07	SOUNDING 0128
COUNTRY 18		DAY 13	BT SLIDE NO 033
INSTITUTE 22		TIME 1010	

DEPTH CON 18	D 02	PH 25
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123.0	281	12.75	8.200
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C-REF-NO 007	LAT 43-26-21N	YEAR 1966	NO. DEPTHS 01
CONS. NO 033	LON 078-51-48W	MONTH 07	SOUNDING 0128
COUNTRY 18		DAY 13	BT SLIDE NO 034
INSTITUTE 22		TIME 1130	

DEPTH CON 18	D 02	PH 25
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123.0	284	12.42	8.240
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C-REF-NO 007
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 43-32-36N
 LON 078-50-30W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 1235

NO. DEPTHS 01
 SOUNDING 0145
 BT SLIDE NO 035

DEPTH CON 18 D 02 PH 25
 140.0 288 12.93 8.230

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

LAT 43-33-00N
 LON 079-04-36W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 1424

NO. DEPTHS 01
 SOUNDING 0132
 BT SLIDE NO 036

DEPTH CON 18 D 02 PH 25
 127.0 274 11.81 8.190

C-REF-NO 007
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-00N
 LON 079-19-00W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 1600

NO. DEPTHS 01
 SOUNDING 0096
 BT SLIDE NO 037

DEPTH CON 18 D 02 PH 25
 91.0 280 11.89 8.210

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

LAT 43-38-57N
 LON 079-05-00W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 2021

NO. DEPTHS 01
 SOUNDING 0112
 BT SLIDE NO 038

DEPTH CON 18 D 02 PH 25
 107.0 290 11.82 8.220

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

LAT 43-44-48N
 LON 079-03-09W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 2123

NO. DEPTHS 01
 SOUNDING 0061
 BT SLIDE NO 039

DEPTH CON 18 D 02 PH 25
 56.0 289 12.75 8.240

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

LAT 43-44-42N
 LON 078-49-21W

YEAR 1966
 MONTH 07
 DAY 13
 TIME 2250

NO. DEPTHS 01
 SOUNDING 0079
 BT SLIDE NO 040

DEPTH CON 18 D 02 PH 25
 74.0 12.05

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

LAT 43-38-03N
LON 078-50-03W

YEAR 1966
MONTH 07
DAY 14
TIME 0018

NO. DEPTHS 01
SOUNDING 0126
BT SLIDE NO 041

DEPTH CON 18 D 02 PH 25

121.0 275 12.61 8.130

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

LAT 43-31-42N
LON 078-34-54W

YEAR 1966
MONTH 07
DAY 14
TIME 0200

NO. DEPTHS 01
SOUNDING 0166
BT SLIDE NO 042

DEPTH CON 18 D 02 PH 25

161.0 280 13.15 8.010

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

LAT 43-38-03N
LON 078-34-36W

YEAR 1966
MONTH 07
DAY 14
TIME 0346

NO. DEPTHS 01
SOUNDING 0146
BT SLIDE NO 043

DEPTH CON 18 D 02 PH 25

141.0 283 12.16 8.090

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

LAT 43-43-48N
 LON 078-35-12W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 0457

NO. DEPTHS 01
 SOUNDING 0106
 BT SLIDE NO 044

DEPTH CON 18 D 02 PH 25

101.0 272 13.30 8.190

C-REF-NO 007
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 43-48-48N
 LON 078-35-06W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 0556

NO. DEPTHS 01
 SOUNDING 0064
 BT SLIDE NO 045

DEPTH CON 18 D 02 PH 25

59.0 285 11.94 8.200

C-REF-NO 007
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 43-54-42N
 LON 078-19-39W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 0737

NO. DEPTHS 01
 SOUNDING 0018
 BT SLIDE NO 046

DEPTH CON 18 D 02 PH 25

13.0 286 11.70 8.180

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

LAT 43-48-57N
 LON 078-20-36W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 0832

NO. DEPTHS 01
 SOUNDING 0079
 BT SLIDE NO 047

DEPTH CON 18 D 02 PH 25
 74.0 289 11.18 8.130

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

LAT 43-42-54N
 LON 078-20-06W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 0922

NO. DEPTHS 01
 SOUNDING 0117
 BT SLIDE NO 048

DEPTH CON 18 D 02 PH 25
 112.0 293 12.21 8.140

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

LAT 43-36-54N
 LON 078-20-39W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1030

NO. DEPTHS 01
 SOUNDING 0168
 BT SLIDE NO 049

DEPTH CON 18 D 02 PH 25
 163.0 278 12.98 8.130

C-REF-NO 007
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-54N
 LON 078-22-00W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1140

NO. DEPTHS 01
 SOUNDING 0177
 BT SLIDE NO 050

DEPTH CON 18 D 02 PH 25
 172.0 279 12.27 8.210

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

LAT 43-30-00N
 LON 078-07-42W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1318

NO. DEPTHS 01
 SOUNDING 0163
 BT SLIDE NO 051

DEPTH CON 18 D 02 PH 25
 158.0 278 13.04 8.140

C-REF-NO 007
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-45N
 LON 078-06-51W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1426

NO. DEPTHS 01
 SOUNDING 0186
 BT SLIDE NO 052

DEPTH CON 18 D 02 PH 25
 181.0 281 10.35 8.150

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

LAT 43-42-30N
 LON 078-06-12W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1545

NO. DEPTHS 01
 SOUNDING 0141
 BT SLIDE NO 053

DEPTH CON 18 D 02 PH 25

136.0 281 12.32 8.140

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

LAT 43-48-06N
 LON 078-06-12W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1651

NO. DEPTHS 01
 SOUNDING 0079
 BT SLIDE NO 054

DEPTH CON 18 D 02 PH 25

74.0 286 11.41 8.110

C-REF-NO 007
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 43-53-48N
 LON 078-06-09W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1743

NO. DEPTHS 01
 SOUNDING 0051
 BT SLIDE NO 055

DEPTH CON 18 D 02 PH 25

46.0 288 11.86 8.090

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

LAT 43-52-30N
 LON 077-51-00W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 1913

NO. DEPTHS 01
 SOUNDING 0049
 BT SLIDE NO 056

DEPTH CON 18 D 02 PH 25
 44.0 274 10.74 7.990

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

LAT 43-47-15N
 LON 077-51-21W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 2008

NO. DEPTHS 01
 SOUNDING 0104
 BT SLIDE NO 057

DEPTH CON 18 D 02 PH 25
 99.0 283 11.27 7.990

C-REF-NO 007
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 43-41-33N
 LON 077-52-03W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 2100

NO. DEPTHS 01
 SOUNDING 0148
 BT SLIDE NO 058

DEPTH CON 18 D 02 PH 25
 143.0 280 12.70 8.120

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

LAT 43-35-24N
 LON 077-51-48W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 2215

NO. DEPTHS 01
 SOUNDING 0186
 BT SLIDE NO 059

DEPTH CON 18 D 02 PH 25

181.0 283 11.92 8.020

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

LAT 43-29-36N
 LON 077-53-00W

YEAR 1966
 MONTH 07
 DAY 14
 TIME 2317

NO. DEPTHS 01
 SOUNDING 0159
 BT SLIDE NO 060

DEPTH CON 18 D 02 PH 25

154.0 282 12.24 8.080

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

LAT 43-29-00N
 LON 077-38-39W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0056

NO. DEPTHS 01
 SOUNDING 0163
 BT SLIDE NO 061

DEPTH CON 18 D 02 PH 25

158.0 285 13.33 8.100

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

LAT 43-34-57N
 LON 077-37-45W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0200

NO. DEPTHS 01
 SOUNDING 0173
 BT SLIDE NO 062

DEPTH CON 18 D 02 PH 25
 168.0 289 12.25 8.050

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

LAT 43-40-39N
 LON 077-37-48W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0304

NO. DEPTHS 01
 SOUNDING 0111
 BT SLIDE NO 063

DEPTH CON 18 D 02 PH 25
 106.0 279 12.19 8.060

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

LAT 43-46-42N
 LON 077-37-33W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0400

NO. DEPTHS 01
 SOUNDING 0048
 BT SLIDE NO 064

DEPTH CON 18 D 02 PH 25
 43.0 284 11.90 8.030

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

LAT 43-52-30N
LON 077-38-00W

YEAR 1966
MONTH 07
DAY 15
TIME 0503

NO. DEPTHS 01
SOUNDING 0044
BT SLIDE NO 065

DEPTH CON 18 D 02 PH 25
39.0 283 11.26 8.030

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

LAT 43-51-30N
LON 077-22-24W

YEAR 1966
MONTH 07
DAY 15
TIME 0623

NO. DEPTHS 01
SOUNDING 0046
BT SLIDE NO 066

DEPTH CON 18 D 02 PH 25
41.0 283 12.53 7.970

C-REF-NO 007
CONS. NO 066
COUNTRY 18
INSTITUTE 22

LAT 43-46-00N
LON 077-23-00W

YEAR 1966
MONTH 07
DAY 15
TIME 0716

NO. DEPTHS 01
SOUNDING 0048
BT SLIDE NO 067

DEPTH CON 18 D 02 PH 25
43.0 269 13.50 8.050

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

LAT 43-39-57N
 LON 077-23-36W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0814

NO. DEPTHS 01
 SOUNDING 0122
 BT SLIDE NO 068

DEPTH CON 18 D 02 PH 25
 117.0 280 12.92 8.080

C-REF-NO 007
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-09N
 LON 077-24-48W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 0913

NO. DEPTHS 01
 SOUNDING 0176
 BT SLIDE NO 069

DEPTH CON 18 D 02 PH 25
 171.0 270 13.09 8.100

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

LAT 43-27-45N
 LON 077-25-06W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1024

NO. DEPTHS 01
 SOUNDING 0201
 BT SLIDE NO 070

DEPTH CON 18 D 02 PH 25
 196.0 264 9.63 8.580

C-REF-NO 007
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-00N
 LON 077-25-39W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1130

NO. DEPTHS 01
 SOUNDING 0176
 BT SLIDE NO 071

DEPTH CON 18 D 02 PH 25
 171.0 280 12.85 8.360

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

LAT 43-21-21N
 LON 077-10-48W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1310

NO. DEPTHS 01
 SOUNDING 0094
 BT SLIDE NO 072

DEPTH CON 18 D 02 PH 25
 89.0 293 12.59 8.170

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

LAT 43-27-30N
 LON 077-10-15W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1414

NO. DEPTHS 01
 SOUNDING 0221
 BT SLIDE NO 073

DEPTH CON 18 D 02 PH 25
 216.0 273 13.90 8.130

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

LAT 43-33-24N
 LON 077-09-54W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1546

NO. DEPTHS 01
 SOUNDING 0170
 BT SLIDE NO 074

DEPTH CON 18 D 02 PH 25
 165.0 280 12.83 8.100

C-REF-NO 007
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 43-39-39N
 LON 077-09-00W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1651

NO. DEPTHS 01
 SOUNDING 0106
 BT SLIDE NO 075

DEPTH CON 18 D 02 PH 25
 101.0 285 12.32 8.070

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

LAT 43-45-30N
 LON 077-09-00W

YEAR 1966
 MONTH 07
 DAY 15
 TIME 1748

NO. DEPTHS 01
 SOUNDING 0062
 BT SLIDE NO 076

DEPTH CON 18 D 02 PH 25
 57.0 291 11.07 8.040

CRUISE 66-8, LAKE ONTARIO

C-REF-NO 008
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 44-08-45N
 LON 076-38-45W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1126

NO. DEPTHS 02
 SOUNDING 0018
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.61	272	8.44	8.470	1.2	1.0	85.0
10.0		21.58	273	8.50	8.480	0.7		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.0	0.018	0.002			000E00	000E00
10.0	131.0	26.5	0.020	0.005			100E00	

DEPTH	SPC 20	SPC 35
1.0	250E01	150E01
10.0		

C-REF-NO 006	LAT 44-06-12N	YEAR 1966	NO. DEPTHS 02
CONS. NO 002	LON 076-40-09W	MONTH 07	SOUNDING 0020
COUNTRY 18		DAY 19	BT SLIDE NO 002
INSTITUTE 22		TIME 1210	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.92	272	8.55	8.530	0.5	1.2	85.0
10.0		21.85	273	8.59	8.540	1.4		84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	132.0	26.5	0.018	0.002			100E00	000E00
10.0	130.5	26.5	0.042	0.003			200E00	

DEPTH	SPC 20	SPC 35
1.0	600E01	250E01
10.0		

C-REF-NO 008
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 44-00-06N
 LON 076-45-51W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1318

NO. DEPTHS 03
 SOUNDING 0031
 BT SLIDE NO 003

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.8	21.40	275	8.67	8.520	0.8	1.3	86.0
10.0		21.16	273	8.62	8.510	0.6		85.0
20.0		12.35	281	8.25	7.980	0.9		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5	27.0	0.024	0.001		0.001	000E00	
10.0	131.0	26.5	0.019	0.001			000E00	
20.0	132.0	26.5	0.114	0.016			300E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	200E01
10.0		
20.0		

C-REF-NO 008
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 44-04-03N
 LON 076-36-54W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1421

NO. DEPTHS 04
 SOUNDING 0033
 BT SLIDE NO 004

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	5.0	22.01	272	8.66	8.540	0.7	1.1	84.5
10.0		21.68	272	8.58	8.500	0.5		84.5
20.0		17.79	278	8.16	8.240	0.6		87.0
30.0		10.31	287	6.45	7.830	1.0		93.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	26.5	0.024	0.001			300E00	600E00
10.0	130.5	26.5	0.039	0.001			000E00	
20.0	130.5	26.0	0.076	0.004			000E00	
30.0	135.0	26.0	0.183	0.007			100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	450E01	350E01
10.0		
20.0		
30.0	200E01	150E01

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

LAT 44-06-57N
 LON 076-36-06W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1457

NO. DEPTHS 03
 SOUNDING 0026
 BT SLIDE NO 004

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	5.0	22.03	272	8.53	8.540	0.6	1.5	84.0
10.0		21.99	272	8.55	8.520	0.5		84.5
20.0		16.99	278	8.03	8.190	0.3		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	27.5	0.020	0.005			000E00	000E00
10.0	131.0	27.0	0.019	0.001			100E00	
20.0	131.0	27.0	0.072	0.003			000E00	

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

C-REF-NO 008
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 44-09-24N
 LON 076-35-18W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1530

NO. DEPTHS 02
 SOUNDING 0014
 BT SLIDE NO 006

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.6	22.48	272	8.39	8.510	1.4	1.2	83.0
10.0		22.27	274	8.56	8.500	1.0		83.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	27.5	0.047	0.003			000E00	000E00
10.0	130.0	27.5	0.031	0.004			200E00	

DEPTH	SPC 20	SPC 35
1.0	700E01	550E01
10.0		

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

LAT 44-07-54N
 LON 076-32-30W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1605

NO. DEPTHS 03
 SOUNDING 0020
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		22.04	273	8.86	8.530	0.7	0.8	83.0
10.0								
15.0		22.00	273	8.47	8.540	0.7		83.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.5	0.030	0.005			100E00	
10.0							100E00	
15.0	129.0	27.5	0.023	0.002			100E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	200E01
10.0		
15.0		

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

LAT 44-05-09N
 LON 076-33-06W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1642

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	CON. 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.2	22.00	274	8.62	8.550	0.5	0.8	84.5
10.0		21.12	274	8.34	8.480	0.6		84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.5	0.019	0.001			000E00	
10.0	128.0	28.0	0.032	0.003			140E01	

DEPTH	SPC 20	SPC 35
1.0	450E01	150E01
10.0		

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

LAT 44-02-12N
 LON 076-33-33W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1717

NO. DEPTHS 03
 SOUNDING 0029
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.27	273	8.83	8.540	0.9	0.8	83.0
10.0		21.26	274	8.78	8.530	0.6		84.0
20.0		17.89	276	8.11	8.210	0.2		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.044	0.001			200E00	
10.0	130.0	27.5	0.024	0.001			300E00	
20.0	129.5	27.5	0.064	0.006			000E00	

DEPTH	SPC 20	SPC 35
1.0	150E01	500E00
10.0		
20.0		

C-REF-NO 008	LAT 44-03-18N	YEAR 1966	NO. DEPTHS 03
CONS. NO 010	LON 076-29-51W	MONTH 07	SOUNDING 0022
COUNTRY 18		DAY 19	BT SLIDE NO 010
INSTITUTE 22		TIME 1755	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.46	273	8.67	8.510	0.5	0.8	82.5
3.0		21.44						
10.0		21.38	273	8.64	8.550	0.7		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.024	0.001			100E00	000E00
3.0								
10.0	128.0	27.5	0.019	0.001			100E00	

DEPTH	SPC 20	SPC 35
1.0	100E01	500E00
3.0		
10.0		

C-REF-NO 008
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

LAT 44-04-27N
 LON 076-25-54W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1833

NO. DEPTHS 02
 SOUNDING 0022
 BT SLIDE NO 011

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.38	274	8.44	8.540	0.8	0.7	82.5
10.0		22.39	273	8.48	8.560	1.1		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.021	0.004			800E00	
10.0	129.0	28.0	0.055	0.005			400E00	

DEPTH	SPC 20	SPC 35
1.0	550E01	450E01
10.0		

C-REF-NO 008	LAT. 44-03-00N	YEAR 1966	NO. DEPTHS 02
CONS. NO 012	LON 076-23-36W	MONTH 06	SOUNDING 0020
COUNTRY 18		DAY 19	BT SLIDE NO 012
INSTITUTE 22		TIME 1902	

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.9	22.19	272	8.41	8.530	0.7	0.8	83.0
10.0		21.19	272	8.38	8.530	0.9		82.0

DEPTH	HARD	CL	NO3ND2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	130.0	27.5	0.028	0.002			100E00	400E00
10.0	128.5	27.5	0.031	0.004			800E00	

DEPTH	SPC 20	SPC 35
1.0	300E01	300E01
10.0		

C-REF-NO 008
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 44-01-18N
 LON 076-26-36W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 1937

NO. DEPTHS 03
 SOUNDING 0027
 BT SLIDE NO 013

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.9	21.85	273	8.52	8.530	0.8	0.7	82.5
10.0		21.85	272	8.56	8.540	0.9		82.5
20.0		17.15	278	8.00	8.250	0.7		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.0	0.029	0.001				
10.0	129.5	27.5	0.019	0.001			400E00	
20.0	130.0	27.0	0.072	0.003			000E00	

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		

C-REF-NO 008	LAT 44-00-00N	YEAR 1966	NO. DEPTHS 03
CONS. NO 014	LON 076-30-12W	MONTH 07	SOUNDING 0027
COUNTRY 18		DAY 19	BT SLIDE NO 014
INSTITUTE 22		TIME 2020	

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.8	21.58	270	8.64	8.550	0.7	0.6	82.5
10.0		21.60	271	8.72	8.550	0.3		82.5
20.0		21.12	271	7.86	8.540	0.8		83.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.5	0.019	0.001			600E00	000E00
10.0	129.5	27.5	0.014	0.001			100E01	
20.0	129.0	27.5	0.019	0.001			300E00	

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

C-REF-NO 008
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

LAT 43-58-15N
 LON 076-27-12W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 2057

NO. DEPTHS 03
 SOUNDING 0032
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.26	272	8.47	8.540	0.6	0.7	83.5
10.0		21.24	272	8.66	8.540	0.4		83.5
20.0		21.18	271	8.70	8.550	0.5		84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	28.0	0.014	0.001			300E00	000E00
10.0	129.5	28.0	0.019	0.001			600E00	
20.0	129.5	27.0	0.019	0.001			500E00	

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

C-REF-NO 008
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 43-59-33N
 LON 076-23-27W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 2153

NO. DEPTHS 02
 SOUNDING 0022
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	21.72	274	8.62	8.500	1.1	0.6	83.0
10.0		21.75	273	8.59	8.500	0.8		83.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.5	28.0	0.014	0.001			400E00	000E00
10.0	129.0	27.5	0.014	0.001			400E00	

DEPTH	SPC 20	SPC 35
1.0	250E01	150E01
10.0		

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

LAT 44-00-21N
 LON 076-20-06W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 2229

NO. DEPTHS 01
 SOUNDING 0009
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	4.0	22.50	271	7.58	8.550	0.9	1.0	82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	28.0	0.029	0.001			700E00	000E00

DEPTH	SPC 20	SPC 35
1.0	310E02	400E01

C-REF-NO 008
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 43-57-48N
 LON 076-20-15W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 2303

NO. DEPTHS 03
 SOUNDING 0024
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	4.8	21.62	271	8.70	8.530	1.0	0.9	84.5
10.0		21.55	273	8.61	8.550	1.3		83.5
20.0		18.05	277	7.24	8.210	1.0		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.019	0.001			300E00	000E00
10.0	129.0	28.0	0.019	0.001			700E00	
20.0	129.5	27.5	0.086	0.004			400E00	

DEPTH	SPC 20	SPC 35
1.0	650E01	400E01
10.0		
20.0	280E02	220E02

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

LAT 43-56-39N
 LCN 076-23-54W

YEAR 1966
 MONTH 07
 DAY 19
 TIME 2344

NO. DEPTHS 02
 SOUNDING 0020
 BT SLIDE NO 019

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	21.75	272	8.42	8.540	0.8	0.9	82.5
10.0		21.77	270	8.61	8.540	1.4		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.014	0.001			600E00	000E00
10.0	129.5	27.5	0.019	0.001			160E01	

DEPTH	SPC 20	SPC 35
1.0	150E01	100E01
10.0		

C-REF-NO 008
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

LAT 43-54-39N
 LON 076-20-54W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0020

NO. DEPTHS 03
 SOUNDING 0025
 BT SLIDE NO 020

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0			272	8.44		0.3	0.9	82.5
10.0		22.22	271	8.47	8.460	0.1		83.0
20.0		21.83	273	8.16	8.440	0.1		83.5

DEPTH	HARD	CL	NO3NO2	NO2	R P04	PHEN	MF COL	MF ENT
1.0	129.0	28.0	0.019	0.001			700E00	
10.0	130.0	28.0	0.022	0.003			300E00	
20.0	129.5	27.5	0.024	0.001			200E00	

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

C-REF-NO 008
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 43-55-54N
 LON 076-17-06W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0100

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 021

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0			272	8.14		0.1	1.0	82.0
10.0		22.38	272	8.33	8.450	0.2		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	28.0	0.033	0.002		0.003	100E00	000E00
10.0	129.0	27.5	0.039	0.006			200E00	

DEPTH	SPC 20	SPC 35
1.0	650E01	250E01
10.0		

C-REF-NO 008
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

LAT 43-57-45N
 LON 076-13-51W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0139

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 022

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		22.74	274	8.10	8.410	0.3	1.0	82.5
10.0		22.75	272	8.36	8.410	0.1		82.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	28.0	0.065	0.020			160E01	
10.0	131.0	28.0	0.038	0.002			100E00	

DEPTH	SPC 20	SPC 35
1.0	800E01	400E01
10.0		

C-REF-NO 008
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 43-57-45N
 LON 076-07-00W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0225

NO. DEPTHS 01
 SOUNDING 0010
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		23.39	260	7.36	8.090	0.3	1.6	76.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.5	26.5	0.040	0.005			100E01	000E00

DEPTH	SPC 20	SPC 35
1.0		

C-REF-NO 008
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 43-56-06N
 LON 076-10-42W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0258

NO. DEPTHS 02
 SOUNDING 0017
 BT SLIDE NO 024

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.99	274	7.99	8.360	1.0	1.6	82.0
10.0		23.02	272	8.00	8.380	1.1		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	28.0	0.049	0.006			000E00	
10.0	131.0	28.0	0.053	0.017			000E00	

DEPTH	SPC 20	SPC 35
1.0	750E01	350E01
10.0		

C-REF-NO 008
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 43-54-18N
 LON 076-14-15W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0335

NO. DEPTHS 02
 SOUNDING 0019
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.63	273	8.19	8.450	0.9	0.7	82.0
10.0		22.63	274	8.22	8.460	0.5		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	28.0	0.045	0.010			400E00	000E00
10.0	128.0	28.5	0.035	0.005			100E00	

DEPTH	SPC 20	SPC 35
1.0	500E01	100E01
10.0		

C-REF-NO 008
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 43-52-24N
 LON 076-19-15W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0414

NO. DEPTHS 03
 SOUNDING 0027
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.41	273	8.22	8.470	0.7	0.7	81.5
10.0		22.42	274	8.21	8.460	0.8		82.0
20.0		8.29	282	9.80	8.020	0.7		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	28.0	0.033	0.002			800E00	100E00
10.0	129.0	28.5	0.033	0.002			500E00	
20.0	130.0	28.0	0.199	0.006			110E01	

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

C-REF-NO 008
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-27N
 LON 076-18-00W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0441

NO. DEPTHS 04
 SOUNDING 0042
 BT SLIDE NO 027

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		22.44	274	8.10	8.390	0.6	0.7	81.5
10.0		22.45	272	8.08	8.450	0.7		82.0
20.0		12.56	279	10.07	8.160	0.4		86.0
30.0		7.35	282	10.64	8.070	0.7		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5	28.0	0.034	0.001			500E00	
10.0	130.0	28.0	0.032	0.003			500E00	
20.0	130.5	27.5	0.104	0.006			300E00	
30.0	130.5	27.5	0.206	0.004			130E01	600E00

DEPTH	SPC 20	SPC 35
1.0	550E01	250E01
10.0		
20.0		
30.0	200E01	500E01

C-REF-NO 008
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 43-45-54N
 LON 076-18-48W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0536

NO. DEPTHS 04
 SOUNDING 0035
 BT SLIDE NO 028

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.27	268	9.03	8.550	0.3	0.6	82.0
3.0		21.28						
10.0		21.30	268	8.94	8.560	0.8		82.5
20.0		8.07	280	11.20	8.120	0.6	0.1	88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	27.5	0.014	0.001			225E02	
3.0						0.001		
10.0	130.0	27.5	0.015	0.000			400E00	
20.0	130.0	27.5	0.162	0.003			160E01	

DEPTH	SPC 20	SPC 35
1.0	100E01	250E01
3.0		
10.0		
20.0		

C-REF-NO 008
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-03N
 LON 076-31-57W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0705

NO. DEPTHS 04
 SOUNDING 0035
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		22.00	270	8.64	8.520	0.9	1.0	83.0
3.0		22.01				1.0		
10.0		22.04	270	8.47	8.530	0.8		83.0
20.0			269	8.47		0.5		82.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	28.0	0.019	0.001			400E00	100E00
3.0						0.001		
10.0	129.5	28.5	0.023	0.002			500E00	
20.0	129.0	28.0	0.023	0.002			300E00	

DEPTH	SPC 20	SPC 35
1.0	250E01	500E00
3.0		
10.0		
20.0		

C-REF-NO 008
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 43-40-00N
 LGN 076-32-21W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 0910

NO. DEPTHS 07
 SOUNDING 0128
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.84	268	9.04	8.580	0.7	0.8	83.0
9.0		20.85		9.04			0.7	82.5
18.0		18.68	269	9.36	8.560	0.5	0.7	83.0
27.0		5.44	278	12.03	8.070	0.6	0.5	87.0
45.0		3.98	279	12.60	8.050	0.7	0.3	86.5
68.0		3.96	281	12.73	8.060	0.2	0.4	86.5
91.0		3.89	281	12.91	8.110	0.4	0.3	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	28.0	0.013	0.002			300E01	000E00
9.0	129.5	28.5	0.015	0.000			300E00	
18.0	130.5	28.0	0.015	0.000			440E01	
27.0	130.5	27.5	0.189	0.001			370E01	
45.0	130.5	27.5	0.242	0.003			210E01	
68.0	131.5	27.5	0.252	0.003			180E01	
91.0	130.5	27.5	0.258	0.002			900E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	200E01
9.0		
18.0		
27.0		
45.0		
68.0		
91.0	100E01	450E01

C-REF-NO 008
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 43-33-51N
 LON 076-19-27W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 1058

NO. DEPTHS 05
 SOUNDING 0037
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.5	21.86	269	8.64	8.480	1.1	1.1	81.5
3.0								
10.0		21.86	271	8.61	8.530	0.8		81.5
20.0		8.12	280	12.59	8.220	0.5		87.5
30.0			272	8.63		0.7		82.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	28.0	0.020	0.000			110E01	000E00
3.0						0.001		
10.0	129.5	28.5	0.020	0.000			130E01	
20.0	130.5	27.5	0.124	0.001			120E01	
30.0	129.0	28.0	0.019	0.001			600E00	100E00

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

C-REF-NO 008
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 43-29-51N
 LGN 076-33-57W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 1230

NO. DEPTHS 05
 SOUNDING 0068
 BT SLIDE NO 034

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.51	278	8.67	8.530	0.7	0.5	82.5
10.0		21.51	276	8.70	8.510	1.0		82.5
20.0		10.47	276	12.00	8.300	1.1		88.0
30.0		6.33	279	12.21	8.160	0.6		88.0
50.0		4.29	283	11.56	8.070	1.0		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	30.0	0.019	0.001		0.001	600E00	300E00
10.0	130.0	30.0	0.024	0.001			700E00	
20.0	131.0	27.5	0.049	0.001			100E00	
30.0	131.0	27.5	0.208	0.002			400E00	
50.0	133.0	29.5	0.260	0.005			400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	500E00	100E01
10.0		
20.0		
30.0		
50.0	400E01	100E01

C-REF-NO 008
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-21N
 LON 076-49-03W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 1415

NO. DEPTHS 05
 SOUNDING 0065
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.04	268	8.94	8.540	0.9	1.1	81.0
10.0		21.04	270	8.92	8.530	1.1		81.0
20.0		15.14	274	9.57	8.170	0.4		85.0
30.0		7.06	275	12.31	8.180	0.8		86.5
50.0		4.21	281	12.15	8.080	1.1		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	28.0	0.019	0.001		0.001	130E01	000E00
10.0	130.0	28.5	0.019	0.001			500E00	
20.0	130.5	27.5	0.029	0.001			900E00	
30.0	131.0	27.5	0.164	0.001			500E00	
50.0	132.0	27.5	0.262	0.003			400E00	

DEPTH	SPC 20	SPC 35
1.0	250E01	500E00
10.0		
20.0		
30.0		
50.0		

C-REF-NO 008
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT. 43-35-09N
 LON 076-48-36W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 1615

NO. DEPTHS 08
 SOUNDING 0195
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.78	272	9.12	8.530	1.1	0.7	82.0
10.0		20.67	270	9.22	8.600	0.6	0.7	82.5
20.0		6.02	281	12.74	8.250	1.0	0.5	87.5
30.0		4.88	281	12.60	8.160	0.7	0.4	87.5
50.0		4.29	279	12.87	8.150	0.2		86.5
75.0		3.91	281	12.87	8.130	0.6	0.2	86.0
100.0		3.86	279	12.87	8.130	0.5	0.3	87.5
150.0		3.77	281	12.91	8.140	0.3	0.3	87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	25.0	0.089	0.001		0.001	100E00	100E00
10.0	127.0	27.0	0.079	0.006			000E00	
20.0	131.0	24.5	0.345	0.000			200E00	
30.0	131.0	24.5	0.434	0.006			000E00	
50.0	130.5	25.0	0.450	0.005			000E00	
75.0	130.5	24.0	0.453	0.002			700E00	
100.0	131.5	23.5	0.450	0.005			000E00	
150.0	125.0	27.0	0.451	0.004			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	500E00
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	500E00	150E01

C-REF-NO 008
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 43-47-18N
 LON 076-47-06W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 1836

NO. DEPTHS 06
 SOUNDING 0070
 BT SLIDE NO 039

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.31	270	9.11	8.610	0.9	0.6	81.0
3.0								
10.0		21.21	269	9.20	8.610	0.8		82.0
20.0		9.56	274	10.10	8.320	0.7		85.0
30.0		7.49	280	10.66	8.070	0.9		88.0
50.0		5.70	281	12.10	8.100	0.4		88.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.5	0.080	0.000			600E00	000E00
3.0						0.002		
10.0	125.0	26.0	0.084	0.001			700E00	
20.0	127.0	26.0	0.178	0.002			000E00	
30.0	131.5	25.5	0.366	0.004			000E00	
50.0	132.5	26.0	0.394	0.011			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	500E00
3.0		
10.0		
20.0		
30.0		
50.0	100E01	500E00

C-REF-NO 008
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-27N
 LON 076-58-18W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 2000

NO. DEPTHS 03
 SOUNDING 0026
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T. ALK
1.0	6.0	20.20	271	9.15	8.510	1.1	0.7	83.0
10.0		19.77	273	9.12	8.490	0.9	0.9	84.5
20.0		19.24	273	8.90	8.460	0.6	1.0	84.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.0	0.099	0.001			000E00	000E00
10.0	129.0	26.0	0.112	0.003			100E00	
20.0	131.0	25.5	0.131	0.004			100E00	

DEPTH	SPC 20	SPC 35
1.0	100E01	500E00
10.0		
20.0		

C-REF-NO 008
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 43-41-57N
 LON 077-01-24W

YEAR 1966
 MONTH 07
 DAY 20
 TIME 2156

NO. DEPTHS 07
 SOUNDING 0101
 BT SLIDE NO 042

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	5.0	21.21	271	9.26	8.640	0.7	0.9	82.5
3.0								
10.0		21.00	271	9.03	8.620	0.9	0.9	82.0
20.0		17.28	273	9.00	8.410	0.5	0.8	84.0
30.0		9.00	282	10.27	8.100	0.6	0.4	87.5
50.0		5.75	285	11.62	8.100	0.8	0.5	88.0
75.0		4.85	285	11.59	8.080	1.1	0.3	88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	26.5	0.080	0.000			100E00	000E00
3.0						0.000		
10.0	125.0	27.5	0.085	0.000			200E00	
20.0	131.0	27.5	0.124	0.001			300E00	
30.0	131.0	27.5	0.286	0.004			000E00	
50.0	131.5	27.5	0.395	0.015			000E00	
75.0	131.5	27.0	0.432	0.013			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	100E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0	100E01	100E01

C-REF-NO 008
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-09N
 LON 077-02-15W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 0009

NO. DEPTHS 09
 SOUNDING 0223
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	5.0	20.10	272	9.25	8.540	0.6	1.1	84.5
9.0		20.03	272	9.32	8.560	0.4	1.1	84.0
19.0		9.02	279	10.78	8.160	0.6	0.7	85.5
28.0		6.19	278	12.18	8.170	0.4	0.3	87.5
47.0		5.11	277	12.60	8.210	0.3	0.3	87.5
70.0		4.13	279	12.74	8.170	0.3	0.4	86.5
94.0		4.28	279	12.71	8.170	0.2	0.3	86.5
140.0		3.88	279	12.74	8.180	0.1	0.7	86.0
188.0		3.81	279	12.82	8.130	0.1	0.6	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.089	0.001		0.001	000E00	000E00
9.0	125.0	27.0	0.092	0.003			000E00	
19.0	130.0	27.5	0.292	0.003			000E00	
28.0	129.0	26.5	0.369	0.006			000E00	
47.0	131.0	27.5	0.421	0.004			130E01	
70.0	132.5	26.5	0.437	0.003			100E00	
94.0	131.5	26.0	0.448	0.002			000E00	
140.0	130.5	27.0	0.454	0.001			000E00	000E00
188.0	131.0	26.5	0.454	0.001				

DEPTH	SPC 20	SPC 35
1.0	500E00	100E01
9.0		
19.0		
28.0		
47.0		
70.0		
94.0		
140.0	700E00	300E00
188.0		

C-REF-NO 008
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-27N
 LON 077-03-36W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 0230

NO. DEPTHS 03
 SOUNDING 0036
 BT SLIDE NO 046

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.73	270	8.72	8.510	0.6	1.2	81.0
10.0		21.73	270	8.75	8.490	0.7	0.9	81.5
20.0		19.07	270	8.75	8.390	0.9	1.2	81.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	26.5	0.097	0.008		0.001	500E00	
10.0	125.0	28.5	0.090	0.000			400E00	
20.0	125.0	26.5	0.154	0.006			120E01	

DEPTH	SPC 20	SPC 35
1.0	500E00	100E01
10.0		
20.0		

C-REF-NO 008
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-30N
 LON 077-17-57W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 0434

NO. DEPTHS 10
 SOUNDING 0216
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.42	266	9.18	8.490	0.6	1.3	79.5
3.0								
10.0		20.43	266	9.17	8.480	0.8		80.0
19.0		7.83	277	13.05	8.260	0.3		86.0
29.0		5.57	279	12.51	8.130	0.3		86.5
48.0		4.58	279	12.76	8.140	0.4		86.0
72.0		3.91	279	12.93	8.140	0.3		86.0
97.0		3.89	279	12.88	8.130	0.2		86.5
145.0		3.79	278	12.91	8.140	0.1		88.0
193.0			280	12.60		0.5		88.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	26.5	0.094	0.006			000E00	000E00
3.0						0.002		
10.0	125.0	26.5	0.089	0.001			000E00	
19.0	130.0	27.0	0.143	0.007			200E00	
29.0	131.5	26.5	0.384	0.001			000E00	
48.0	130.5	26.5	0.449	0.001			000E00	
72.0	131.0	27.5	0.453	0.002			000E00	
97.0	131.0	26.5	0.453	0.002			000E00	
145.0	131.0	26.5	0.454	0.001			000E00	600E00
193.0	133.0	26.5	0.460	0.000				

DEPTH	SPC 20	SPC 35
1.0	500E00	500E00
3.0		
10.0		
19.0		
29.0		
48.0		
72.0		
97.0		
145.0	250E01	100E01
193.0		

C-REF-NO 008
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-33N
 LON 077-16-33W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 0739

NO. DEPTHS 08
 SOUNDING 0143
 BT SLIDE NO 049

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.40	270	9.42	8.480	0.8	0.8	82.5
3.0								
10.0		19.16	269	9.85	8.480	0.7		82.5
20.0		6.61	279	11.70	8.100	0.7		87.5
30.0		5.70	279	12.31	8.160	0.1		88.0
50.0		4.65	279	12.66	8.170	0.1		87.5
75.0		4.33	280	12.76	8.180	0.3		87.0
100.0		4.15	280	12.91	8.160	0.2		87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	27.0	0.089	0.001			000E00	000E00
3.0						0.001		
10.0	124.0	27.0	0.089	0.001			000E00	
20.0	130.0	26.5	0.341	0.004			000E00	
30.0	131.5	26.5	0.392	0.013			000E00	
50.0	131.5	26.5	0.432	0.003			000E00	
75.0	130.0	26.5	0.439	0.001			100E00	
100.0	131.0	27.0	0.449	0.001			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	400E01	100E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	150E01	100E01

C-REF-NO 008
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 43-47-48N
 LON 077-15-15W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 0930

NO. DEPTHS 05
 SOUNDING 0037
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.72	272	9.11	8.480	0.6	0.9	84.0
3.0								
10.0		19.09	273	9.09	8.500	0.5		84.0
20.0		16.04	273	9.11	8.470	0.4		83.5
30.0		10.35	279	9.56	8.110	0.2		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	27.5	0.109	0.001			000E00	100E00
3.0						0.000		
10.0	126.0	27.0	0.109	0.001			000E00	
20.0	126.0	27.0	0.114	0.001			100E00	
30.0	129.0	27.0	0.276	0.004			200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	250E01
3.0		
10.0		
20.0		
30.0	150E01	200E01

C-REF-NO 008
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1966
 MONTH 07
 DAY 21
 TIME 1115

NO. DEPTHS 06
 SOUNDING 0080
 BT SLIDE NO 052

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	4.5	19.90	271	9.01	8.510	0.7	1.0	82.5
3.0								
10.0		19.91	272	8.98	8.500	0.7		82.5
20.0		10.78	278	9.54	8.110	0.6		86.5
30.0		5.92	281	11.53	8.110	0.3		87.0
50.0		4.81	281	11.84	8.090	0.5		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	130.0	27.0	0.100	0.000			100E00	000E00
3.0						0.002		
10.0	128.0	27.0	0.099	0.001			000E00	
20.0	131.0	27.0	0.138	0.002			000E00	
30.0	131.5	27.0	0.387	0.008			000E00	
50.0	132.5	26.5	0.336	0.009			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	100E01
3.0		
10.0		
20.0		
30.0		
50.0	700E00	400E00

C-REF-NO 008
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-30N
 LON 077-29-39W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 1326

NO. DEPTHS 08
 SOUNDING 0166
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.19	266	9.28	8.520	0.5	0.9	80.0
9.0		20.19	266	9.28	8.530	0.4	1.1	80.0
19.0		13.50	271	10.86	8.380	0.1	0.9	83.0
28.0		6.52	278	12.52	8.160	0.2	0.5	86.5
46.0		4.76	279	13.05	8.140	0.1	0.3	86.5
69.0		4.16	278	13.15	8.150	0.1	0.3	86.5
93.0		3.93	279	12.99	8.140	0.0	1.1	86.0
139.0		3.81	279	13.10	8.130	0.0	0.4	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	27.0	0.089	0.001		0.001	140E01	200E00
9.0	125.5	26.5	0.095	0.000			000E00	
19.0	127.0	26.5	0.139	0.006			100E00	
28.0	131.0	27.0	0.393	0.002			000E00	
46.0	131.0	26.5	0.435	0.005			000E00	
69.0	131.5	26.5	0.449	0.001			000E00	
93.0	131.0	27.0	0.451	0.004			000E00	
139.0	131.5	26.5	0.458	0.002			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	600E00	400E00
9.0		
19.0		
28.0		
46.0		
69.0		
93.0		
139.0	200E01	400E00

C-REF-NO 008
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-39N
 LON 077-31-54W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 1537

NO. DEPTHS 04
 SOUNDING 0055
 BT SLIDE NO 056

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.48	267	9.32	8.550	0.2	0.8	80.5
10.0		20.35	266	9.28	8.550	0.1		80.5
20.0		9.33	277	11.25	8.150	0.0		86.0
30.0		4.06	281	12.06	8.090	0.7		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.085	0.005		0.001	200E00	000E00
10.0	125.0	27.5	0.078	0.002			300E00	
20.0	131.0	27.0	0.299	0.001			900E01	
30.0	132.5	27.0	0.454	0.001			200E01	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	200E00
10.0		
20.0		
30.0	500E01	100E01

C-REF-NO 008
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 43-26-00N
 LON 077-45-54W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 1722

NO. DEPTHS 08
 SOUNDING 0128
 BT SLIDE NO 057

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		19.62	267	9.66	8.530	0.3	1.0	80.0
3.0								
10.0		19.51	267	9.71	8.500	0.3		80.0
20.0		7.58	278	12.23	8.160	0.2		85.5
29.0		6.06	278	12.34	8.120	0.0		85.0
49.0		4.65	278	12.90	8.150	0.1		85.0
73.0		4.11	278	12.96	8.110	0.0		85.0
98.0		3.83	280	12.74	8.080	0.0		84.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.079	0.001			200E00	000E00
3.0						0.000		
10.0	125.0	26.5	0.079	0.001			300E00	
20.0	130.5	26.5	0.293	0.002			370E01	
29.0	131.0	26.5	0.397	0.003			110E01	
49.0	131.0	27.0	0.427	0.003			600E00	
73.0	131.0	26.5	0.433	0.002			100E00	
98.0	131.0	26.5	0.443	0.002			400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E01	500E00
3.0		
10.0		
20.0		
29.0		
49.0		
73.0		
98.0	200E01	500E00

C-REF-NO 008
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 43-38-15N
 LON 077-45-00W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 1930

NO. DEPTHS 09
 SOUNDING 0161
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		14.79	272	11.34	8.380	0.6	1.0	83.0
3.0								
10.0		13.80	274	11.20	8.370	0.7		83.5
20.0		7.62	276	12.34	8.170	0.4		86.5
30.0		5.48	279	12.66	8.040	0.3		86.5
50.0		4.34	279	13.13	8.070	0.2		86.5
75.0		3.88	279	13.18	8.090	0.4		86.5
100.0		3.89	280	13.26	8.090	0.4		86.5
150.0		3.83	281	12.57	8.070	0.2		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.0	0.148	0.002			000E00	000E00
3.0						0.002		
10.0	124.0	26.0	0.192	0.008			000E00	
20.0	129.5	27.0	0.397	0.003			000E00	
30.0	130.5	27.5	0.489	0.006			000E00	
50.0	130.5	27.5	0.540	0.010			000E00	
75.0	132.0	27.0	0.541	0.004			000E00	
100.0	130.5	27.0	0.544	0.001			000E00	
150.0	132.5	27.0	0.560	0.005			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	200E01	500E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	900E00	700E00

C-REF-NO 008
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1966
 MONTH 07
 DAY 21
 TIME 2129

NO. DEPTHS 06
 SOUNDING 0070
 BT SLIDE NO 061

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.7	18.18	272	10.16	8.530	1.0	1.0	82.5
3.0								
10.0		6.88	279	10.96	8.030	0.2		86.5
20.0		5.80	280	11.30	8.050	0.6		86.5
30.0		5.58	281	11.11	8.060	0.2		87.0
50.0		5.15	283	11.42	8.070	0.3		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	28.0	0.083	0.002			100E00	000E00
3.0						0.002		
10.0	132.0	27.5	0.349	0.006			000E00	
20.0	132.0	27.5	0.454	0.011			000E00	
30.0	133.0	28.0	0.469	0.011			300E00	
50.0	133.0	28.0	0.495	0.010			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	850E01	350E01
3.0		
10.0		
20.0		
30.0		
50.0	100E01	110E02

C-REF-NO 008
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 43-55-54N
 LON 077-57-24W

YEAR 1966
 MONTH 07
 DAY 21
 TIME 2311

NO. DEPTHS 05
 SOUNDING 0040
 BT SLIDE NO 062

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	17.55	274	10.19	8.430	0.9	1.2	84.0
3.0		17.12	276	9.85	8.420	0.9	0.9	84.0
10.0		8.97	282	9.54	7.990	0.7	0.5	86.0
20.0		5.85	282	10.94	8.040	0.2	0.4	86.5
30.0								

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.0	27.5	0.082	0.003			000E00	000E00
3.0						0.000		
10.0	130.5	27.5	0.096	0.004			700E00	
20.0	132.0	27.5	0.361	0.009			100E00	
30.0	132.5	27.5	0.466	0.014			000E00	430E01

DEPTH	SPC 20	SPC 35
1.0	250E01	100E01
3.0		
10.0		
20.0		
30.0	150E01	150E01

C-REF-NO 008
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 43-45-09N
 LON 077-59-00W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 0045

NO. DEPTHS 07
 SOUNDING 0112
 BT SLIDE NO 064

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		16.97	274	10.89	8.570	1.2	1.3	82.5
10.0		11.88	275	11.39	8.350	1.4	0.8	83.5
20.0		4.34	278	12.71	8.130	0.5	0.1	85.5
30.0		4.00	278	13.05	8.150	0.4	0.0	85.5
50.0		3.93	279	13.13	8.150	0.4	0.1	85.5
75.0		3.89	278	13.15	8.150	0.5	0.8	85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.093	0.002		0.003	000E00	300E00
10.0	125.0	26.5	0.149	0.001			000E00	
20.0	131.5	27.0	0.498	0.012			100E00	
30.0	131.0	27.0	0.509	0.006			000E00	
50.0	131.5	27.5	0.511	0.009			000E00	
75.0	131.5	27.0	0.512	0.008			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	100E01
10.0		
20.0		
30.0		
50.0		
75.0	300E01	100E01

C-REF-NO 008
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 43-33-00N
 LGN 077-59-54W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 0308

NO. DEPTHS 08
 SOUNDING 0183
 BT SLIDE NO 066

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		14.74	271	11.50	8.500	0.7	1.4	82.0
10.0		14.72	270	11.53	8.530	1.2	1.4	79.0
20.0		9.18	276	12.52	8.320	0.4	0.7	84.0
30.0		5.04	278	12.66	8.130	0.4	1.2	85.0
50.0		4.24	279	13.04	8.130	0.2	0.5	85.0
75.0		3.88	278	13.15	8.130	0.2	0.5	84.5
100.0		3.88	279	13.19	8.140	0.2	0.3	84.0
150.0		3.83	279	13.15	8.140	0.4	0.6	84.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.5	27.0	0.098	0.002		0.000	000E00	000E00
10.0	125.0	27.0	0.094	0.001			000E00	
20.0	126.0	27.5	0.263	0.007			000E00	
30.0	131.0	27.5	0.490	0.005			000E00	
50.0	131.0	27.0	0.522	0.003			000E00	
75.0	132.0	27.0	0.523	0.002			000E00	
100.0	130.0	27.0	0.519	0.006			000E00	
150.0	131.0	27.0	0.523	0.002			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	200E01	500E00
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0	800E00	300E00

C-REF-NO 008
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-42N
 LON 078-01-30W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 0505

NO. DEPTHS 06
 SOUNDING 0058
 BT SLIDE NO 068

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.57	269	9.18	8.480	1.1	0.8	80.0
3.0								
10.0		20.52	269	9.18	8.500	0.7	0.9	80.5
20.0		8.39	277	10.97	8.110	0.5	0.4	85.5
30.0		5.19	278	12.45	8.110	0.5	0.4	85.5
50.0		4.11	279	11.66	8.120	0.4	0.0	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.5	0.099	0.001			600E00	000E00
3.0						0.001		
10.0	130.0	27.0	0.097	0.003			600E00	
20.0	130.5	27.0	0.365	0.005			400E00	
30.0	130.5	26.5	0.499	0.006			400E00	
50.0	133.0	26.5	0.545	0.005			200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	500E00
3.0		
10.0		
20.0		
30.0		
50.0	300E01	500E00

C-REF-NO 008
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 43-27-42N
 LON 078-14-12W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 0658

NO. DEPTHS 08
 SOUNDING 0148
 BT SLIDE NO. 069

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.39	272	9.65	8.470	1.0	1.0	81.0
3.0								
10.0		18.73	278	11.73	7.910	0.3		85.0
20.0		7.29		12.00	8.100	0.8		85.5
30.0		5.51	279	12.43	8.100	0.3		85.5
50.0		4.11	280	13.05	8.120	0.7		85.5
75.0		3.92		13.01				85.5
100.0		3.88	279	13.07	8.120	0.1		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	26.5	0.083	0.002			200E00	200E00
3.0						0.002		
10.0	130.0	26.5	0.373	0.002			200E00	
20.0	130.0	26.5	0.391	0.004			300E00	
30.0	130.5	27.0	0.456	0.004			000E00	
50.0	130.5	27.0	0.523	0.002			000E00	
75.0	131.0	27.0	0.523	0.002			000E00	
100.0	131.0	27.0	0.523	0.002			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	500E00
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	330E02	600E01

C-REF-NO 008
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 43-39-42N
 LON 078-13-09W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 0851

NO. DEPTHS 08
 SOUNDING 0153
 BT SLIDE NO 071

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		14.37	274	11.19	8.450	0.6	1.1	82.5
3.0								
10.0		10.06	277	11.79	8.310	0.4		84.5
20.0		5.59	278	12.49	8.150	0.3		86.0
30.0		4.00	279	13.04	8.110	0.3		85.5
50.0		3.88	278	12.94	8.120	0.2		85.5
75.0		3.88	280	12.91	8.140	0.2		85.5
100.0		3.84	280	12.91	8.160	0.2		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	27.0	0.123	0.002			300E00	000E00
3.0						0.000		
10.0	129.0	27.0	0.248	0.002			100E00	
20.0	130.0	27.0	0.454	0.006			000E00	
30.0	131.0	27.0	0.522	0.003			100E00	
50.0	131.5	27.0	0.528	0.002			200E00	
75.0	131.5	27.0	0.521	0.004			000E00	
100.0	131.5	27.0	0.522	0.003			200E00	

DEPTH	SPC 20	SPC 35
1.0	330E02	450E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	320E02	200E01

C-REF-NO 008
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 43-51-54N
 LON 078-12-30W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 1047

NO. DEPTHS 05
 SOUNDING 0051
 BT SLIDE NO 073

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		16.30	272	10.75	8.550	1.1	1.4	83.0
3.0								
10.0		15.15	274	11.16	8.540	0.9		84.0
20.0		6.48	280	10.51	8.000	0.2		87.0
30.0		5.31	280	11.79	8.060	0.0		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.0	0.089	0.001			000E00	000E00
3.0						0.000		
10.0	128.0	27.0	0.089	0.001			100E00	
20.0	132.5	27.0	0.410	0.005			000E00	
30.0	131.0	26.5	0.455	0.005			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	330E02	450E01
3.0		
10.0		
20.0		
30.0	500E01	100E01

C-REF-NO 008
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 43-46-21N
 LON 078-27-06W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 1227

NO. DEPTHS 05
 SOUNDING 0081
 BT SLIDE NO 074

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		13.37	274	12.10	8.530	1.2	1.4	86.0
10.0		5.31	277	12.54	8.120	1.0		86.0
20.0		4.60	278	12.85	8.120	0.6		85.5
30.0		4.25	276	13.13	8.170	0.4		86.0
50.0		4.16	278	13.15	8.150	0.5		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.5	0.113	0.002		0.001	000E00	
10.0	129.0	26.5	0.446	0.004			000E00	
20.0	129.0	27.0	0.478	0.007			000E00	
30.0	129.0	27.0	0.485	0.005			000E00	
50.0	131.5	27.5	0.490	0.005			300E00	000E00

DEPTH	SPC 20	SPC 35
1.0	250E01	200E01
10.0		
20.0		
30.0		
50.0	100E01	200E00

C-REF-NO 008
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-06N
 LON 078-28-03W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 1430

NO. DEPTHS 08
 SOUNDING 0175
 BT SLIDE NO 076

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		14.18	273	11.50	8.470	1.3	1.5	82.5
10.0		3.92	280	13.13	8.140	0.3	0.3	85.0
20.0		3.87	278	13.22	8.130	0.3	0.3	85.0
30.0		3.85	278	13.19	8.140	0.2	0.5	86.0
50.0		3.82	279	13.21	8.170	0.2	0.3	85.0
75.0		3.80	279	13.21	8.140	0.3	0.4	85.5
100.0		3.79	280	13.21	8.160	0.2	0.4	85.5
150.0		3.76	278	13.15	8.140	0.4	0.5	85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	27.0	0.139	0.001		0.001	000E00	100E00
10.0	129.0	27.0	0.513	0.002			200E00	
20.0	130.0	27.5	0.517	0.003			000E00	
30.0	131.0	26.5	0.518	0.002			000E00	
50.0	131.0	26.5	0.518	0.002			000E00	
75.0	131.0	27.0	0.523	0.002			300E00	
100.0	130.0	27.0	0.523	0.002			200E00	
150.0	130.5	27.0	0.523	0.002				

DEPTH	SPC 20	SPC 35
1.0	430E02	800E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0		

C-REF-NO 008
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-00N
 LON 078-29-18W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 1636

NO. DEPTHS 05
 SOUNDING 0055
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	20.44	271	9.32	8.480	1.1	1.5	80.5
3.0								
10.0		20.21	271	9.22	8.480	1.1		81.5
20.0		20.06	272	9.17	8.460	0.8		81.5
30.0		4.70	280	11.76	8.050	0.7		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	27.5	0.094	0.001			400E00	000E00
3.0						0.000		
10.0	125.0	27.5	0.103	0.002			800E00	
20.0	125.0	27.5	0.113	0.002			700E00	
30.0	131.5	28.0	0.497	0.008			800E00	000E00

DEPTH	SPC 20	SPC 35
1.0	350E01	150E01
3.0		
10.0		
20.0		
30.0	550E01	150E01

C-REF-NO 008
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

LAT 43-29-18N
 LON 078-43-54W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 1816

NO. DEPTHS 07
 SOUNDING 0150
 BT SLIDE NO 079

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB.	BOD	T ALK
1.0	3.1	17.04	273	10.68	8.540	1.3	1.7	81.5
10.0		16.80	271	10.66	8.540	1.1		82.0
20.0		16.72	273	10.82	8.540	1.3		82.0
30.0			272	10.78		0.8		82.0
50.0		5.05	280	12.62	8.060	0.4		84.5
75.0		4.13	279	12.99	8.090	0.3		84.0
100.0		3.98	279	13.13	8.080	0.2		84.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.088	0.002			100E00	000E00
10.0	126.0	27.0	0.088	0.002			100E00	
20.0	125.5	27.0	0.088	0.002			500E00	
30.0	127.0	27.0	0.113	0.002			200E00	
50.0	130.5	27.0	0.479	0.006			400E00	
75.0	130.5	27.0	0.499	0.001			300E00	
100.0	131.0	27.0	0.499	0.001			400E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	700E01
10.0		
20.0		
30.0		
50.0		
75.0		
100.0	150E01	500E00

C-REF-NO 008
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

LAT 43-40-45N
 LON 078-43-21W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 2017

NO. DEPTHS 08
 SOUNDING 0115
 BT SLIDE NO 081

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	3.5	13.41	274	12.66	8.560	1.0	1.4	84.0
3.0								
10.0		6.41	278	12.34	8.160	0.6		84.0
20.0		4.32	278	12.62	8.110	0.7		84.0
30.0		3.96	278	13.05	8.140	0.1		85.0
50.0		3.90	278	13.08	8.150	0.2		84.5
74.0		3.85	277	13.21	8.160	0.2		84.0
99.0		3.78	280	13.16	8.150	0.5		84.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.0	0.169	0.001			200E00	000E00
3.0						0.002		
10.0	131.0	27.0	0.373	0.002			100E00	
20.0	131.0	27.0	0.478	0.002			000E00	
30.0	131.5	26.5	0.484	0.001			000E00	
50.0	131.0	27.0	0.478	0.002			100E00	
74.0	131.0	27.0	0.488	0.002			000E00	
99.0	131.0	27.0	0.494	0.001			100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	500E00
3.0		
10.0		
20.0		
30.0		
50.0		
74.0		
99.0	300E00	400E00

C-REF-NO 008
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 43-50-15N
 LON 078-41-18W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 2144

NO. DEPTHS 04
 SOUNDING 0031
 BT SLIDE NO 083

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	3.8	13.73	278	11.59	8.470	1.4	1.6	84.0
3.0								
10.0		9.87	281	10.57	8.160	1.2		84.0
20.0		7.84	280	11.50	8.130	0.6		84.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.5	27.0	0.164	0.001			000E00	000E00
3.0						0.000		
10.0	132.0	27.0	0.254	0.001			100E00	
20.0	132.0	27.0	0.408	0.002			200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	100E01
3.0		
10.0		
20.0	700E03	800E01

C-REF-NO 008
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 43-48-00N
 LON 078-56-03W

YEAR 1966
 MONTH 07
 DAY 22
 TIME 2317

NO. DEPTHS 05
 SOUNDING 0044
 BT SLIDE NO 084

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.3	12.39	277	12.90	8.550	0.8	1.6	87.0
3.0								
10.0		10.10	278	12.82	8.420	1.2	1.6	87.5
20.0		6.33	277	11.66	8.100	0.5	1.0	87.5
30.0		5.99	282	11.72	8.110	0.9	0.6	87.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	131.0	27.5	0.278	0.002			000E00	000E00
3.0						0.001		
10.0	133.0	27.5	0.378	0.002			000E00	
20.0	132.5	27.0	0.522	0.003			000E00	
30.0	132.0	27.0	0.538	0.012			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	200E01	100E01
3.0		
10.0		
20.0		
30.0	100E01	300E00

C-REF-NO 008
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-03N
 LON 078-56-33W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 0131

NO. DEPTHS 07
 SOUNDING 0128
 BT SLIDE NO 086

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		15.24	272	12.18	8.650	0.8	1.7	84.5
10.0		10.43	275	12.35	8.460	1.3	1.7	86.0
20.0		4.82	279	12.37	8.130	0.9	0.4	86.5
30.0		4.15	278	12.82	8.140	0.3	0.1	86.5
49.0		3.95	280	13.05	8.140	0.2	0.3	86.0
74.0		3.90	279	13.13	8.140	0.2	0.1	86.0
98.0		3.86	279	13.10	8.140	0.1	0.2	86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.089	0.001		0.000	100E00	000E00
10.0	126.0	27.5	0.253	0.002			200E00	
20.0	130.0	27.0	0.557	0.003			500E00	
30.0	130.5	27.0	0.592	0.008			200E00	
49.0	131.5	27.0	0.583	0.007			200E00	
74.0	129.5	27.0	0.585	0.005			100E00	
98.0	129.5	27.5	0.596	0.004			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	100E01
10.0		
20.0		
30.0		
49.0		
74.0		
98.0	600E00	900E00

C-REF-NO 008
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-51N
 LON 078-57-36W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 0335

NO. DEPTHS 06
 SOUNDING 0103
 BT SLIDE NO 088

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.90	277	9.57	8.590	1.4	1.2	83.5
10.0		19.26	279	9.26	8.470	1.0	0.8	83.5
20.0		5.98	279	12.12	8.130	0.6	0.2	85.5
30.0		4.46	278	12.77	8.120	0.4	0.4	90.0
50.0		4.02	281	13.04	8.120	0.2	0.4	86.5
75.0		3.92	281	12.94	8.130	0.3	0.4	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	29.0	0.205	0.005			800E00	000E00
10.0	127.5	28.5	0.229	0.006			500E00	
20.0	129.5	27.0	0.538	0.012			150E01	
30.0	133.5	29.0	0.586	0.014			200E00	
50.0	131.0	27.5	0.588	0.002			150E01	
75.0	128.5	27.5	0.593	0.002			900E00	000E00

DEPTH	SPC 20	SPC 35
1.0	900E01	500E02
10.0		
20.0		
30.0		
50.0		
75.0	250E01	350E01

C-REF-NO 008
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-42N
 LON 079-12-54W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 0527

NO. DEPTHS 06
 SOUNDING 0082
 BT SLIDE NO 089

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		19.06	275	10.44	8.550	1.7	0.8	83.5
3.0								
10.0		16.23	274	10.37	8.450	0.9		84.5
20.0		5.55	278	12.18	8.070	0.5		87.0
30.0		4.90	280	12.40	8.070	0.1		87.0
50.0		4.06	279	12.87	8.090	0.0		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	28.0	0.121	0.004			120E01	000E00
3.0						0.001		
10.0	125.5	28.0	0.222	0.003			380E01	
20.0	130.0	27.5	0.551	0.009			280E01	
30.0	129.5	26.5	0.563	0.007			140E01	
50.0	129.5	26.0	0.584	0.001			600E01	580E01

DEPTH	SPC 20	SPC 35
1.0	750E01	180E02
3.0		
10.0		
20.0		
30.0		
50.0	350E03	500E02

C-REF-NO 008
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-36N
 LON 079-12-00W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 0724

NO. DEPTHS 08
 SOUNDING 0137
 BT SLIDE NO 091

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		14.08	273	13.03	8.700	0.9	1.2	85.0
3.0								
10.0		7.10	277	12.40	8.240	0.9	0.5	85.5
20.0		4.37	281	12.56	8.060	0.2	1.3	86.0
30.0		4.17	280	12.93	8.070	0.3	0.2	86.0
50.0		4.06	292	13.06	8.090	0.2	0.0	86.5
75.0		3.95	282	13.18	8.100	0.2	0.0	86.5
100.0		3.89	281	13.20	8.100	0.1	0.2	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.5	0.114	0.001			000E00	000E00
3.0						0.002		
10.0	128.0	26.5	0.387	0.003			100E00	
20.0	128.5	27.0	0.568	0.002			000E00	
30.0	127.5	26.5	0.593	0.002			000E00	
50.0	128.5	26.5	0.587	0.003			000E00	
75.0	128.0	26.0	0.592	0.003			000E00	
100.0	129.5	26.0	0.588	0.002			100E00	000E00

DEPTH	SPC 20	SPC 35
1.0	850E01	100E01
3.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		350E01

C-REF-NO 008
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 43-41-51N
 LON 079-10-18W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 0916

NO. DEPTHS 03
 SOUNDING 0029
 BT SLIDE NO 093

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		9.66	280	13.70	8.480	1.2	1.2	86.5
10.0		8.41	279	13.76	8.460	1.0		86.5
20.0		6.17	284	12.54	8.160	0.9		87.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	128.0	26.5	0.407	0.003			000E00	
10.0	127.0	26.0	0.412	0.003			100E00	
20.0	130.0	29.0	0.532	0.003			100E00	

DEPTH	SPC 20	SPC 35
1.0	220E02	150E01
10.0		
20.0		

C-REF-NO 008
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 43-36-00N
 LON 079-25-06W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 1100

NO. DEPTHS 05
 SOUNDING 0038
 BT SLIDE NO 094

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	2.5	9.83	275	14.84	8.630	1.4		86.5
10.0		7.04	278	13.28	8.350	1.3		85.5
20.0		5.47	280	12.70	8.180	1.7		85.5
30.0		4.32	280	12.42	8.070	1.6		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	27.0	0.278	0.002				
10.0	128.0	26.0	0.477	0.003				
20.0	130.0	26.5	0.559	0.001				
30.0	127.5	27.0	0.584	0.001				

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 008
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

LAT 43-25-18N
 LON 079-26-21W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 1234

NO. DEPTHS 07
 SOUNDING 0106
 BT SLIDE NO 096

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	2.6	12.07	273	14.12	8.780	1.2	2.2	85.0
10.0		9.22	276	13.57	8.590	1.4	1.7	85.0
19.0		4.86	278	12.29	8.150	0.7	0.4	85.0
29.0		4.41	280	12.74	8.120	0.2	0.1	85.0
49.0		4.03	278	12.98	8.140	0.4	0.1	85.5
73.0		3.87	278	12.95	8.140	0.4	0.1	85.5
97.0		3.83	283	11.54	8.020	0.8	0.1	86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	26.0	0.084	0.001			300E00	000E00
10.0	127.0	26.5	0.258	0.002			300E00	
19.0	127.5	26.0	0.556	0.004			300E00	
29.0	127.0	26.5	0.574	0.001			000E00	
49.0	126.0	26.5	0.579	0.001			000E00	
73.0	127.0	27.0	0.584	0.001			100E00	
97.0	127.5	26.5	0.627	0.003			600E00	000E00

DEPTH	SPC 20	SPC 35
1.0	120E02	150E01
10.0		
19.0		
29.0		
49.0		
73.0		
97.0	100E02	150E01

C-REF-NO 008
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-45N
 LON 079-40-48W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 1433

NO. DEPTHS 04
 SOUNDING 0048
 BT SLIDE NO 098

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	3.0	11.14	277	13.66	8.640	1.0	1.8	85.5
10.0		6.65	279	12.79	8.240	0.8	1.4	85.5
20.0		5.19	281	12.29	8.130	0.3	1.0	85.5
30.0		4.27	282	12.28	8.080	0.7	0.5	85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	129.5	27.5	0.351	0.004			100E00	400E00
10.0	128.5	27.0	0.535	0.005			200E00	
20.0	130.0	27.0	0.565	0.005			100E00	
30.0	130.0	27.0	0.587	0.003			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	100E02	350E01
10.0		
20.0		
30.0		200E01

C-REF-NO 008
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 43-14-30N
 LON 079-27-12W

YEAR 1966
 MONTH 07
 DAY 23
 TIME 1605

NO. DEPTHS 05
 SOUNDING 0036
 BT SLIDE NO 099

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	15.12	274	12.17	8.630	1.0	1.8	84.0
3.0								
10.0		12.02	277	12.03	8.470	0.6		84.5
20.0		4.42	279	12.36	8.140	0.2		85.5
25.0		4.35	280	12.15	8.070	0.3		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	27.0	0.264	0.006			100E00	000E00
3.0						0.004		
10.0	126.5	27.5	0.360	0.005			800E00	
20.0	126.5	27.0	0.570	0.005			700E00	
25.0	128.5	27.5	0.576	0.004			200E00	000E00

DEPTH	SPC 20	SPC 35
1.0	300E01	350E01
3.0		
10.0		
20.0		
25.0	650E01	250E01

C-REF-NO 008
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 43-23-03N
 LON 077-39-00W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0105

NO. DEPTHS 06
 SOUNDING 0082
 BT SLIDE NO 100

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.0	20.30	270	9.55	8.460	1.0	1.4	81.5
10.0		19.59	270	9.36	8.470	0.8		81.5
20.0		17.98	270	9.59	8.480	1.0		81.5
30.0		6.51	277	11.86	8.160	0.2		86.5
50.0		5.23	278	12.39	8.140	0.4		86.5
75.0		3.86	280	12.48	8.090	0.8		86.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	25.5	0.174	0.001			200E00	000E00
10.0	124.0	26.0	0.153	0.007			400E00	
20.0	125.5	25.5	0.169	0.006			200E00	
30.0	130.5	24.5	0.544	0.006			300E00	
50.0	130.5	24.0	0.589	0.001			000E00	
75.0	131.5	24.0	0.603	0.002			500E00	000E00

DEPTH	SPC 20	SPC 35
1.0		150E01
10.0		
20.0		
30.0		
50.0		
75.0	120E02	100E03

C-REF-NO 008
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-15N
 LON 077-39-00W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0148

NO. DEPTHS 02
 SOUNDING 0022
 BT SLIDE NO 101

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.98	270	9.59	8.540	2.0	1.6	80.0
10.0		20.88	270	9.05	8.480	1.2		80.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	24.5	0.134	0.001			150E01	000E00
10.0	125.5	24.5	0.174	0.006			900E00	

DEPTH	SPC 20	SPC 35
1.0	550E01	200E01
10.0		

C-REF-NO 008
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-36N
 LON 077-36-00W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0225

NO. DEPTHS 02
 SOUNDING 0024
 BT SLIDE NO 102

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.40	270	9.45	8.530	1.6	1.5	80.0
10.0		20.66	269	8.97	8.470	1.3		80.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	25.0	0.163	0.002			500E00	000E00
10.0	125.0	25.5	0.151	0.004			600E00	

DEPTH	SPC 20	SPC 35
1.0		
10.0	200E01	200E01

C-REF-NO 008
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 43-21-48N
 LON 077-35-30W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0300

NO. DEPTHS 05
 SOUNDING 0066
 BT SLIDE NO 103

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.20	268	10.00	8.560	1.2	1.3	80.0
10.0		19.23	268	9.67	8.490	0.9		80.5
20.0		17.17	271	12.01	8.390	0.6		81.5
30.0		5.78	279	10.30	8.150	0.3		86.0
50.0		3.82	282		8.090	0.2		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.0	25.5	0.109	0.001			700E00	000E00
10.0	125.5	25.0	0.148	0.002			900E00	
20.0	125.5	25.0	0.215	0.005			300E00	
30.0	130.5	26.0	0.570	0.005			100E00	
50.0	131.0	25.5	0.604	0.001			000E00	000E00

DEPTH	SPC 20	SPC 35
1.0	150E01	350E01
10.0		
20.0		
30.0		
50.0		

C-REF-NO 008
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 43-24-24N
 LON 077-35-21W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0345

NO. DEPTHS 07
 SOUNDING 0135
 BT SLIDE NO 104

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.63	269	9.68	8.520	1.2	1.3	79.0
10.0		19.11	268	9.46	8.500	0.8		79.0
20.0		16.47	270	9.79	8.390	0.3		81.5
30.0		6.94	276	11.96	8.180	0.2		85.5
50.0		5.04	278	12.48	8.150	0.4		85.0
75.0		4.05	278	12.74	8.160	0.5		85.0
100.0		3.86	280	12.87	8.150	0.2		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.5	25.5	0.119	0.001			130E01	000E00
10.0	126.0	25.5	0.137	0.003			740E01	
20.0	126.0	25.0	0.188	0.002			100E00	
30.0	131.0	24.5	0.533	0.002			100E00	
50.0	130.5	24.5	0.581	0.004			600E00	
75.0	131.5	25.0	0.592	0.003			300E00	
100.0	131.0	25.0	0.599	0.001			000E00	000E00

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

C-REF-NO 008
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-45N
 LON 077-32-51W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0424

NO. DEPTHS 07
 SOUNDING 0112
 BT SLIDE NO 105

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.38	269	9.60	8.620	0.6	1.0	79.0
10.0		20.28	270	8.78	8.480	0.7		79.5
20.0		16.44	273	9.49	8.250	0.4		82.0
30.0		7.27	278	10.35	8.140	0.2		84.5
50.0		4.27	280	12.04	8.080	0.4		85.0
75.0		3.94	280	12.18	8.060	0.6		85.0
100.0		3.87	281	11.52	8.060	0.9		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	25.5	0.118	0.002			540E01	000E00
10.0	123.0	24.5	0.140	0.000			100E00	
20.0	127.5	25.0	0.234	0.001			300E00	
30.0	130.0	24.5	0.526	0.004			500E00	
50.0	131.0	24.5	0.601	0.004			500E00	
75.0	131.5	25.0	0.606	0.004			600E00	
100.0	132.0	25.0	0.606	0.004			110E01	400E00

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

C-REF-NO 008
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-42N
 LON 077-32-36W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0514

NO. DEPTHS 04
 SOUNDING 0054
 BT SLIDE NO 106

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		21.31	269	9.63	8.550	1.4	1.4	78.5
10.0		19.92	269	9.34	8.500	1.2		79.0
20.0		19.25	268	9.42	8.480	0.9		81.0
30.0		8.08	278	12.17	8.130	0.4		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	124.5	25.5	0.138	0.002			150E01	000E00
10.0	125.5	25.0	0.161	0.004			500E00	
20.0	126.5	25.0	0.163	0.002			110E01	
30.0	131.0	25.0	0.570	0.005			160E01	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0

C-REF-NO 008
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 43-16-45N
 LON 077-32-42W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0559

NO. DEPTHS 02
 SOUNDING 0021
 BT SLIDE NO 107

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.53	268	9.32	8.510	1.2	1.1	79.5
10.0		20.44	269	8.95	8.480	1.0		79.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.159	0.001			600E01	
10.0	125.0	26.5	0.158	0.002			100E01	

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 008
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 43-15-42N
 LON 077-29-54W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0637

NO. DEPTHS 02
 SOUNDING 0015
 BT SLIDE NO 108

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.86	273	8.92	8.480	1.1	1.1	79.5
10.0		20.34	270	8.47	8.420	0.6		79.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	127.0	26.5	0.164	0.001			750E02	500E00
10.0	124.0	26.5	0.188	0.002			210E02	

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 008
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 43-18-06N
 LON 077-28-39W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0708

NO. DEPTHS 04
 SOUNDING 0044
 BT SLIDE NO 109

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.41	268	9.26	8.540	1.2	1.1	79.0
10.0		19.93	267	9.03	8.490	0.7		79.5
20.0		16.79	271	9.29	8.360	0.7		81.0
30.0		4.32	281	12.14	8.070	0.8		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	123.0	25.0	0.153	0.002			220E02	100E00
10.0	124.5	25.0	0.153	0.002			210E01	
20.0	125.5	25.5	0.323	0.002			260E01	
30.0	131.5	25.5	0.597	0.003			150E01	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		

C-REF-NO 008
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 43-21-12N
 LON 077-28-39W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0800

NO. DEPTHS 07
 SOUNDING 0126
 BT SLIDE NO 110

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0		20.81	270	9.52	8.560	1.2	0.6	79.5
10.0		19.73	268	9.06	8.500	0.9		79.5
20.0		8.66	276	11.37	8.150	0.8		85.0
30.0		6.94	279	12.04	8.170	0.5		85.5
50.0		4.93	279	12.74	8.160	0.2		85.5
75.0		4.11	278	12.88	8.140	0.2		85.5
100.0		3.85	280	12.59	8.110	0.2		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	25.5	0.139	0.001			500E00	000E00
10.0	124.5	25.5	0.149	0.001			200E00	
20.0	129.5	26.0	0.421	0.004			700E00	
30.0	130.5	25.5	0.541	0.004			400E00	
50.0	130.5	25.5	0.586	0.004			000E00	
75.0	130.5	26.0	0.597	0.003			000E00	
100.0	131.0	26.0	0.602	0.003			000E00	000E00

DEPTH SPC 20 SPC 35

1.0
 10.0
 20.0
 30.0
 50.0
 75.0
 100.0

C-REF-NO 008
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-18N
 LON 077-25-12W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0856

NO. DEPTHS 08
 SOUNDING 0186
 BT SLIDE NO 111

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.08	266	9.48	8.580	1.3	0.8	78.0
10.0		20.55	268	9.06	8.500	1.2		78.5
20.0		8.83	278	11.67	8.180	0.8		84.0
30.0		5.67	278	12.29	8.130	0.2		85.0
50.0		4.48	279	12.76	8.140	0.2		84.5
75.0		3.91	279	12.88	8.130	0.2		84.5
100.0		3.87	279	12.84	8.140	0.2		85.0
150.0		3.78	280	12.87	8.120	0.2		85.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.5	0.135	0.000			200E00	400E00
10.0	125.0	26.5	0.145	0.000			200E00	
20.0	129.5	27.0	0.409	0.001			100E00	
30.0	131.0	26.0	0.549	0.001			300E00	
50.0	131.0	26.0	0.598	0.002			000E00	
75.0	131.0	27.0	0.598	0.002			000E00	
100.0	131.0	26.0	0.599	0.001			000E00	
150.0	131.5	25.5	0.604	0.001			000E00	

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		
100.0		
150.0		

C-REF-NO 008
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-21N
 LON 077-25-24W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 0943

NO. DEPTHS 05
 SOUNDING 0068
 BT SLIDE NO 112

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.71	268	9.11	8.490	1.0	0.8	78.0
10.0		20.46	267	9.23	8.520	0.6		78.5
20.0		16.54	272	9.39	8.340	0.4		80.5
30.0		5.88	272	12.12	8.130	0.7		84.5
50.0		3.87	281	12.24	8.090	0.8		85.0

DEPTH	HARD	CL	NO3ND2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	26.0	0.148	0.002			120E01	200E00
10.0	125.0	26.0	0.153	0.002			900E00	
20.0	126.0	25.5	0.307	0.003			130E01	
30.0	131.0	25.5	0.568	0.007			800E00	
50.0	131.5	26.0	0.599	0.001			200E00	000E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		

C-REF-NO 008
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 43-17-09N
 LON 077-26-15W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 1013

NO. DEPTHS 02
 SOUNDING 0022
 BT SLIDE NO 113

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		21.00	272	9.01	8.480	1.0	0.9	79.0
10.0		20.25	270	8.86	8.460	1.2		79.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.5	26.5	0.129	0.001			850E01	000E00
10.0	124.0	26.5	0.099	0.001			800E00	

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 008
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 43-17-36N
 LON 077-22-06W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 1047

NO. DEPTHS 02
 SOUNDING 0016
 BT SLIDE NO 114

DEPTH	SECCHI	TEMP	CON 18	D 02	PH 25	TURB	BOD	T ALK
1.0	3.4	21.02	271	8.33	8.400	1.0	0.8	79.0
10.0		20.52	271	8.34	8.410	0.9		79.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.5	26.5	0.224	0.001			220E02	200E01
10.0	125.5	26.5	0.119	0.001			200E02	

DEPTH	SPC 20	SPC 35
1.0		
10.0		

C-REF-NO 008
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-36N
 LGN 077-21-42W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 1126

NO. DEPTHS 06
 SOUNDING 0095
 BT SLIDE NO 115

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0	3.2	20.95	267	9.42	8.570	1.0	1.3	78.5
10.0		19.97	268	8.97	8.500	0.3		78.5
20.0		11.15	277	11.20	8.210	0.2		84.0
30.0		6.47	277	12.04	8.190	0.2		85.0
50.0		4.92	280	12.74	8.150	0.3		84.5
75.0		4.04	280	12.00	8.090	0.4		85.5

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	126.0	26.0	0.109	0.001			400E00	000E00
10.0	124.0	26.5	0.119	0.001			100E00	
20.0	129.5	26.0	0.284	0.001			200E00	
30.0	130.0	26.0	0.523	0.002			000E00	
50.0	130.5	26.0	0.582	0.003			100E00	
75.0	131.5	26.5	0.604	0.001			500E00	200E00

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
75.0		

C-REF-NO 008
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-00N
 LON 077-02-33W

YEAR 1966
 MONTH 07
 DAY 24
 TIME 1430

NO. DEPTHS 09
 SOUNDING 0221
 BT SLIDE NO 116

DEPTH	SECCHI	TEMP	CON 18	D O2	PH 25	TURB	BOD	T ALK
1.0		20.58	269	10.22	8.630	1.4		80.5
10.0		18.41	273	9.00	8.420	1.0		84.5
20.0		7.16	278	12.00	8.170	0.7		85.0
30.0		5.37	280	12.60	8.170	0.4		85.0
50.0		4.68	279	12.88	8.160	0.3		85.0
74.0		4.06	280	12.96	8.160	0.3		85.0
99.0		3.88	279	12.99	8.140	0.3		85.5
149.0		3.80	280	12.98	8.140	0.2		86.0
198.0		3.71	280	12.68	8.140	0.2		86.0

DEPTH	HARD	CL	NO3NO2	NO2	R PO4	PHEN	MF COL	MF ENT
1.0	125.0	27.0	0.099	0.001				
10.0	126.5	26.5	0.169	0.001				
20.0	130.5	27.0	0.484	0.001				
30.0	131.0	26.0	0.568	0.002				
50.0	131.0	26.0	0.589	0.001				
74.0	131.0	26.5	0.599	0.001				
99.0	130.5	26.5	0.598	0.002				
149.0	131.0	27.0	0.599	0.001				
198.0	131.5	26.5	0.599	0.001				

DEPTH	SPC 20	SPC 35
1.0		
10.0		
20.0		
30.0		
50.0		
74.0		
99.0		
149.0		
198.0		