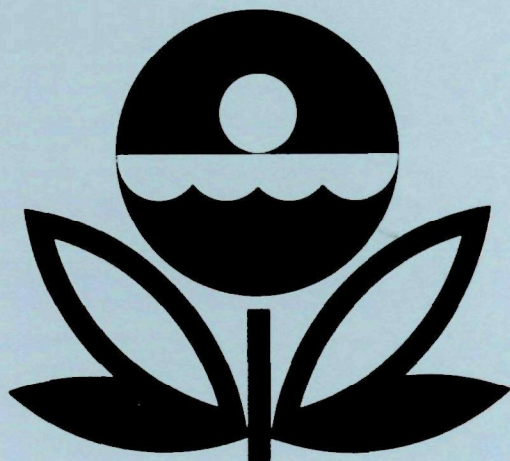


**U.S. ENVIRONMENTAL PROTECTION AGENCY
NATIONAL EUTROPHICATION SURVEY
WORKING PAPER SERIES**



REPORT
ON
MILTON RESERVOIR
WELD COUNTY
COLORADO
EPA REGION VIII
WORKING PAPER No. 774

**CORVALLIS ENVIRONMENTAL RESEARCH LABORATORY - CORVALLIS, OREGON
and
ENVIRONMENTAL MONITORING & SUPPORT LABORATORY - LAS VEGAS, NEVADA**

REPORT
ON
MILTON RESERVOIR
WELD COUNTY
COLORADO
EPA REGION VIII
WORKING PAPER No. 774

WITH THE COOPERATION OF THE
COLORADO DEPARTMENT OF HEALTH
AND THE
COLORADO NATIONAL GUARD
JULY, 1977

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F O R E W O R D

The National Eutrophication Survey was initiated in 1972 in response to an Administration commitment to investigate the nationwide threat of accelerated eutrophication to freshwater lakes and reservoirs.

OBJECTIVES

The Survey was designed to develop, in conjunction with state environmental agencies, information on nutrient sources, concentrations, and impact on selected freshwater lakes as a basis for formulating comprehensive and coordinated national, regional, and state management practices relating to point-source discharge reduction and non-point source pollution abatement in lake watersheds.

ANALYTIC APPROACH

The mathematical and statistical procedures selected for the Survey's eutrophication analysis are based on related concepts that:

- a. A generalized representation or model relating sources, concentrations, and impacts can be constructed.
- b. By applying measurements of relevant parameters associated with lake degradation, the generalized model can be transformed into an operational representation of a lake, its drainage basin, and related nutrients.
- c. With such a transformation, an assessment of the potential for eutrophication control can be made.

LAKE ANALYSIS

In this report, the first stage of evaluation of lake and watershed data collected from the study lake and its drainage basin is documented. The report is formatted to provide state environmental agencies with specific information for basin planning [§303(e)], water quality criteria/standards review [§303(c)], clean lakes [§314(a,b)], and water quality monitoring [§106 and §305(b)] activities mandated by the Federal Water Pollution Control Act Amendments of 1972.

Beyond the single lake analysis, broader based correlations between nutrient concentrations (and loading) and trophic condition are being made to advance the rationale and data base for refinement of nutrient water quality criteria for the Nation's fresh water lakes. Likewise, multivariate evaluations for the relationships between land use, nutrient export, and trophic condition, by lake class or use, are being developed to assist in the formulation of planning guidelines and policies by EPA and to augment plans implementation by the states.

ACKNOWLEDGEMENT

The staff of the National Eutrophication Survey (Office of Research & Development, U. S. Environmental Protection Agency) expresses sincere appreciation to the Colorado Department of Health for professional involvement, to the Colorado National Guard for conducting the tributary sampling phase of the Survey, and to those wastewater treatment plant operators who voluntarily provided effluent samples.

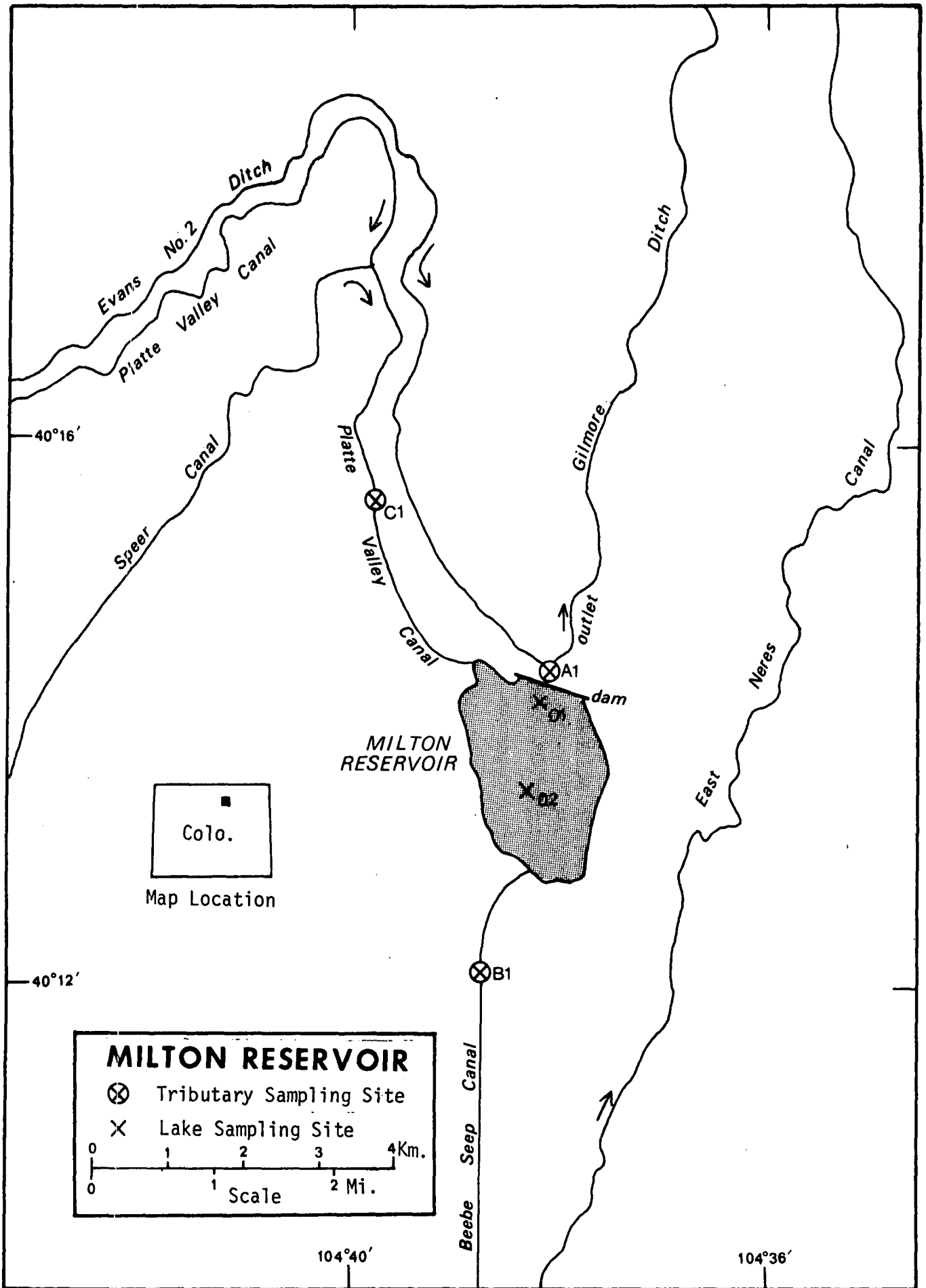
The staff of the Water Quality Control Division provided invaluable lake documentation and counsel during the Survey, reviewed the preliminary reports, and provided critiques most useful in the preparation of this Working Paper series.

Lt. Colonel Paul A. Parsons, the Deputy Adjutant General of Colorado, and Project Officer Colonel Hershel C. Yeargan, who directed the volunteer efforts of the Colorado National Guardsmen, are also gratefully acknowledged for their assistance to the Survey.

NATIONAL EUTROPHICATION SURVEY
STUDY LAKES AND RESERVOIRS

STATE OF COLORADO

<u>NAME</u>	<u>COUNTY</u>
Barker	Boulder
Barr	Adams
Blue Mesa	Boulder
Cherry Creek	Arapohoe
Cucharas	Huerfano
Dillon	Summit
Grand	Grand
Green Mountain	Summit
Holbrook	Otero
Meredith	Crowley
Milton	Weld
Navajo	Archuleta, CO; San Juan, Rio Arriba, NM
Shadow Mountain	Grand



Colo.

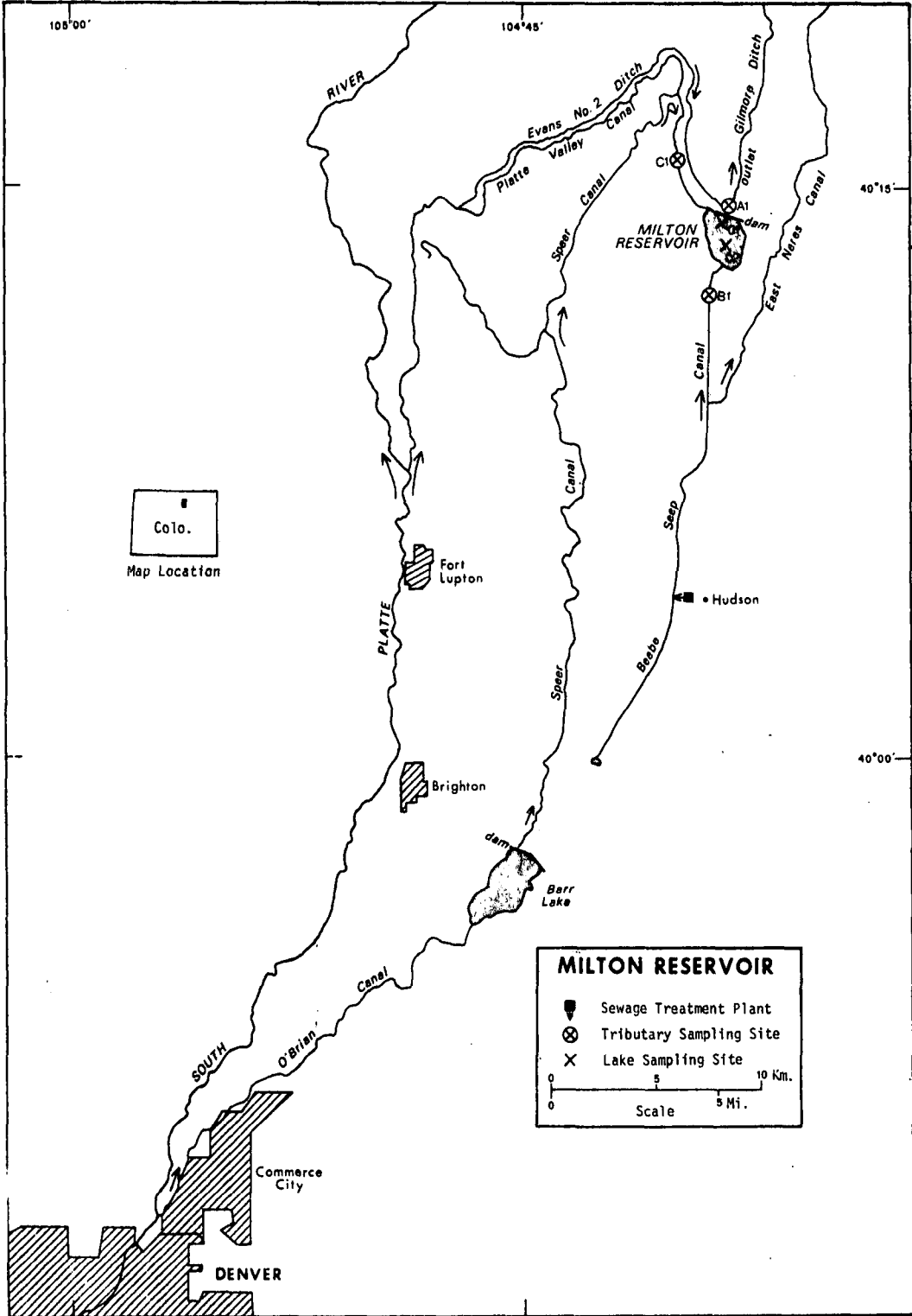
Map Location

MILTON RESERVOIR

- ⊗ Tributary Sampling Site
- × Lake Sampling Site

0 1 2 3 4 Km.
0 1 2 Mi.

Scale



MILTON RESERVOIR

STORET NO. 0811

I. INTRODUCTION

Accurate flow data could not be provided for Milton Reservoir by the U.S. Geological Survey because water enters and leaves the lake through ungaged inlet and outlet canals. Therefore, this report primarily pertains to the lake sampling data. However, tributary and wastewater treatment plant samples were collected, and the results of the analyses are presented in Appendix D.

II. CONCLUSIONS

A. Trophic Condition:

Survey data indicate Milton Reservoir is eutrophic. It ranked tenth in overall trophic quality when the 13 Colorado lakes and reservoirs sampled in 1975 were compared using a combination of six parameters*. Eleven of the water bodies had less median total phosphorus, 12 had less median dissolved orthophosphorus and inorganic nitrogen, six had less mean chlorophyll a, and six had greater mean Secchi disc transparency.

B. Rate-Limiting Nutrient:

The algal assay results indicate the primary productivity of Milton Reservoir was nitrogen limited at the time the sample was collected (05/06/75). The reservoir data indicate nitrogen limitation at all sampling times.

* See Appendix A.

III. RESERVOIR AND DRAINAGE BASIN CHARACTERISTICS[†]A. Morphometry^{††}:

1. Surface area: 8.41 kilometers².
2. Mean depth: 7.3 meters.
3. Maximum depth: 12.5 meters.
4. Volume: 61.393×10^6 m³.

B. Precipitation*:

1. Year of sampling: 34.6 centimeters.
2. Mean annual: 32.4 centimeters.

† Table of metric conversions--Appendix B.

†† Anderson, 1974.

* See Working Paper No. 175, "...Survey Methods, 1973-1976".

IV. WATER QUALITY SUMMARY

Milton Reservoir was sampled three times during the open-water season of 1975 by means of a pontoon-equipped Huey helicopter. Each time, samples for physical and chemical parameters were collected from one or more depths at two stations on the reservoir (see map, page v). During each visit, a single depth-integrated (4.6 m or near bottom to surface) sample was composited from the stations for phytoplankton identification and enumeration; and during the May visit, a single 18.9-liter depth-integrated sample was composited for algal assays. Also each time, a depth-integrated sample was collected from each of the stations for chlorophyll a analysis. The maximum depths sampled were 6.4 meters at station 1 and 3.4 meters at station 2.

The sampling results are presented in full in Appendix C and are summarized in the following table.

A. SUMMARY OF PHYSICAL AND CHEMICAL CHARACTERISTICS FOR MILTON RESERVOIR
STORET CODE 0811

PARAMETER	1ST SAMPLING (5/ 6/75)				2ND SAMPLING (8/26/75)				3RD SAMPLING (10/10/75)			
	2 SITES				2 SITES				2 SITES			
	RANGE	MEAN	MEDIAN		RANGE	MEAN	MEDIAN		RANGE	MEAN	MEDIAN	
TEMP (C)	12.5 - 13.3	13.0	13.0		21.0 - 23.2	22.5	22.9		13.0 - 13.6	13.3	13.2	
DISS OXY (MG/L)	5.8 - 6.4	6.1	6.1		6.4 - 7.2	6.9	7.0		5.8 - 6.4	6.0	6.0	
CNDCTVY (MCROMO)	1025. - 1045.	1035.	1033.		1258. - 1310.	1295.	1304.		1058. - 1088.	1078.	1083.	
PH (STAND UNITS)	8.3 - 8.4	8.3	8.3		9.0 - 9.0	9.0	9.0		8.1 - 8.2	8.2	8.2	
TOT ALK (MG/L)	276. - 292.	282.	280.		324. - 374.	354.	358.		302. - 400.	352.	352.	
TOT P (MG/L)	1.150 - 1.170	1.158	1.160		0.698 - 0.736	0.720	0.720		0.780 - 0.870	0.833	0.842	
ORTHO P (MG/L)	1.000 - 1.160	1.083	1.090		0.500 - 0.688	0.587	0.622		0.688 - 0.846	0.758	0.749	
NO2+NO3 (MG/L)	0.820 - 0.870	0.837	0.835		0.020 - 0.020	0.020	0.020		0.840 - 1.880	1.387	1.415	
AMMONIA (MG/L)	1.420 - 1.770	1.503	1.455		0.110 - 0.240	0.188	0.200		1.700 - 1.910	1.850	1.895	
KJEL N (MG/L)	2.600 - 2.800	2.700	2.700		1.200 - 1.300	1.280	1.300		2.700 - 3.300	3.075	3.150	
INORG N (MG/L)	2.260 - 2.590	2.340	2.285		0.130 - 0.260	0.208	0.220		2.750 - 3.790	3.237	3.205	
TOTAL N (MG/L)	3.470 - 3.620	3.537	3.535		1.220 - 1.320	1.300	1.320		3.890 - 5.180	4.462	4.390	
CHLRPYL A (UG/L)	1.3 - 1.4	1.3	1.3		8.3 - 16.0	12.1	12.1		4.1 - 4.3	4.2	4.2	
SECCHI (METERS)	3.0 - 3.4	3.2	3.2		1.0 - 1.5	1.3	1.3		0.9 - 0.9	0.9	0.9	

B. Biological Characteristics:

1. Phytoplankton -

<u>Sampling Date</u>	<u>Dominant Genera</u>	<u>Algal Units per ml</u>
05/06/75	1. <u>Pediastrum sp.</u>	102
	2. <u>Cryptomonas sp.</u>	102
	3. <u>Chroomonas (?) sp.</u>	102
	4. <u>Schroederia sp.</u>	51
	5. <u>Scenedesmus sp.</u>	51
	Total	408
08/26/75	1. <u>Melosira sp.</u>	590
	2. <u>Fragilaria sp.</u>	553
	3. <u>Chroomonas (?) sp.</u>	406
	4. <u>Asterionella sp.</u>	369
	5. <u>Anabaena sp.</u>	332
	Other genera	257
Total	2,507	
10/10/75	1. <u>Chroomonas (?) sp.</u>	272
	2. <u>Nitzschia sp.</u>	136
	3. <u>Cyclotella sp.</u>	91
	4. Pennate diatoms	91
	5. <u>Aphanizomenon sp.</u>	45
	Other genera	89
Total	724	

2. Chlorophyll a -

<u>Sampling Date</u>	<u>Station Number</u>	<u>Chlorophyll a (µg/l)</u>
05/06/75	1	1.3
	2	1.4
08/26/75	1	8.3
	2	16.0
10/10/75	1	4.1
	2	4.3

C. Limiting Nutrient Study:

1. Autoclaved, filtered, and nutrient spiked -

<u>Spike (mg/l)</u>	<u>Ortho P Conc. (mg/l)</u>	<u>Inorganic N Conc. (mg/l)</u>	<u>Maximum yield (mg/l-dry wt.)</u>
Control	1.040	1.835	7.2
0.050 P	1.090	1.835	7.2
0.050 P + 1.0 N	1.090	2.835	24.5
1.0 N	1.040	2.835	16.7

2. Discussion -

The control yield of the assay alga, Selenastrum capricornutum, indicates that the potential primary productivity of Milton Reservoir was high at the time the assay sample was collected (05/06/75). Also, the addition of nitrogen alone and in combination with phosphorus resulted in a significant increase in yield which indicates the reservoir was nitrogen limited at that time. Note that the addition of phosphorus alone resulted in a yield not significantly greater than that of the control.

The reservoir data substantiate nitrogen limitation. The mean inorganic nitrogen to orthophosphorus ratios were 4 to 1 or less at all sampling times.

V. NUTRIENT SOURCES
(See Appendix D for data)

The operator of the Hudson Sanitation Company wastewater treatment plant provided monthly effluent samples and estimated flow data. The results of the analyses of the samples are included in Appendix D.

A. Known municipal*:

<u>Name</u>	<u>Pop. Served</u>	<u>Treatment</u>	<u>Mean Flow (m³/d)</u>	<u>Receiving Water</u>
Hudson Sanitation Co.	600	stab. pond	189.3	Beebe Seep Canal

B. Known industrial - None

C. Mean Nutrient Concentrations in Ungaged Streams:

<u>Tributary</u>	<u>Mean Total P Conc. (mg/l)</u>	<u>Mean Total N Conc. (mg/l)</u>
Gilmore Ditch	0.980	3.286
Beebe Canal	0.501	3.730
Platte Valley Canal	1.357	6.067

* Treatment plant questionnaire.

VI. LITERATURE REVIEWED

Anderson, R. Dennis, 1974. Personal communication (waterbody information and morphometry). CO Dept. of Health, Denver.

VII APPENDICES

APPENDIX A

LAKE RANKINGS

LAKE DATA TO BE USED IN RANKINGS

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500- MEAN SEC	MEAN CHLORA	15- MIN DO	MEDIAN DISS ORTHO P
0801	BARKER RESERVOIR	0.023	0.045	419.000	5.333	9.400	0.006
0802	BARK LAKE	0.930	1.090	451.333	28.767	10.200	0.730
0803	BLUE MESA RESERVOIR	0.019	0.040	395.750	6.817	13.800	0.005
0804	CERRY CREEK LAKE	0.054	0.040	469.333	23.322	10.000	0.007
0805	CUCHARAS RESERVOIR	0.263	0.040	490.000	27.400	14.800	0.015
0806	DILLON RESERVOIR	0.009	0.040	181.750	3.150	9.200	0.002
0807	GRAND LAKE	0.013	0.040	366.500	4.900	10.200	0.003
0808	GREEN MOUNTAIN RESERVOIR	0.010	0.040	391.167	5.833	9.100	0.002
0809	HOLBROOK LAKE	0.329	0.070	490.333	111.933	9.000	0.028
0810	LAKE MEREDITH	0.397	0.110	489.667	164.678	10.400	0.098
0811	MILTON RESERVOIR	0.846	2.280	429.333	5.900	9.200	0.808
0812	NAVAJO RESERVOIR	0.036	0.050	479.400	2.180	10.000	0.013
0813	SHADOW MOUNTAIN LAKE	0.020	0.040	427.000	5.700	9.200	0.003

PERCENT OF LAKES WITH HIGHER VALUES (NUMBER OF LAKES WITH HIGHER VALUES)

LAKE CODE	LAKE NAME	MEDIAN TOTAL P	MEDIAN INORG N	500- MEAN SEC	MEAN CHLORA	15- MIN DO	MEDIAN DISS ORTHO P	INDEX NO
0801	BARKER RESERVOIR	58 (7)	42 (5)	67 (8)	75 (9)	58 (7)	58 (7)	358
0802	BARR LAKE	0 (0)	8 (1)	42 (5)	17 (2)	29 (3)	8 (1)	104
0803	BLUE MESA RESERVOIR	75 (9)	87 (9)	75 (9)	42 (5)	8 (1)	67 (8)	354
0804	CHERRY CREEK LAKE	42 (5)	87 (9)	33 (4)	33 (4)	46 (5)	50 (6)	291
0805	CUCHARAS RESERVOIR	33 (4)	58 (6)	8 (1)	25 (3)	0 (0)	33 (4)	157
0806	DILLON RESERVOIR	100 (12)	58 (6)	100 (12)	92 (11)	75 (8)	96 (11)	521
0807	GRAND LAKE	83 (10)	87 (9)	92 (11)	83 (10)	29 (3)	79 (9)	453
0808	GREEN MOUNTAIN RESERVOIR	92 (11)	58 (6)	83 (10)	58 (7)	92 (11)	96 (11)	479
0809	HOLBROOK LAKE	25 (3)	25 (3)	0 (0)	8 (1)	100 (12)	25 (3)	183
0810	LAKE MEREDITH	17 (2)	17 (2)	17 (2)	0 (0)	17 (2)	17 (2)	85
0811	MILTON RESERVOIR	8 (1)	0 (0)	50 (6)	50 (6)	75 (8)	0 (0)	143
0812	NAVAJO RESERVOIR	50 (6)	33 (4)	25 (3)	100 (12)	46 (5)	42 (5)	296
0813	SHADOW MOUNTAIN LAKE	67 (8)	87 (9)	58 (7)	67 (8)	75 (8)	79 (9)	433

LAKES RANKED BY INDEX NOS.

RANK	LAKE CODE	LAKE NAME	INDEX NO
1	0806	DILLON RESERVOIR	521
2	0808	GREEN MOUNTAIN RESERVOIR	479
3	0807	GRAND LAKE	453
4	0813	SHADOW MOUNTAIN LAKE	433
5	0801	BARKER RESERVOIR	358
6	0803	BLUE MESA RESERVOIR	354
7	0812	NAVAJO RESERVOIR	296
8	0804	CHERRY CREEK LAKE	291
9	0811	MILTON RESERVOIR	183
10	0809	HOLBROOK LAKE	183
11	0805	CUCHARAS RESERVOIR	157
12	0802	BARR LAKE	104
13	0810	LAKE MEREDITH	85

APPENDIX B

CONVERSION FACTORS

CONVERSION FACTORS

Hectares x 2.471 = acres

Kilometers x 0.6214 = miles

Meters x 3.281 = feet

Cubic meters x 8.107×10^{-4} = acre/feet

Square kilometers x 0.3861 = square miles

Cubic meters/sec x 35.315 = cubic feet/sec

Centimeters x 0.3937 = inches

Kilograms x 2.205 = pounds

Kilograms/square kilometer x 5.711 = lbs/square mile

APPENDIX C

PHYSICAL and CHEMICAL DATA

STORET RETRIEVAL DATE 76/09/24

081101
 40 14 13.0 104 38 14.0 3
 MILTON RESERVOIR
 08123 COLORADO

091091

11EPALES 2111202
 0025 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CONDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CAC03 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
75/05/06	15 10	0000	13.3	6.4	132	1045	8.30	284	1.420	2.600	0.870	1.160
	15 10	0005	13.0	6.2		1034	8.30	276	1.420	2.700	0.840	1.130
	15 10	0021	12.7	6.0		1031	8.30	292	1.500	2.700	0.840	1.030
75/08/26	09 50	0000	23.2	6.4	60	1297	9.00	324	0.210	1.200	0.020	0.688
	09 50	0005	23.1	7.0		1310	9.00	364	0.200	1.300	0.020	0.622
	09 50	0010	22.9	6.8		1304	9.00	358	0.240	1.300	0.020	0.622
75/10/10	09 00	0000	13.6	6.4	36	1088	8.15	302	1.700	2.700	1.190	0.690
	09 00	0005	13.3	6.0		1078	8.20	354	1.880	3.200	1.640	0.846
	09 00	0009	13.2	5.8		1058	8.20	400	1.910	3.300	1.880	0.808

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
75/05/06	15 10	0000	1.150	1.3	
	15 10	0005	1.150		
	15 10	0021	1.160		
75/08/26	09 50	0000	0.698	8.3	
	09 50	0005	0.718		
	09 50	0010	0.726		
75/10/10	09 00	0000	0.780	4.1	
	09 00	0005	0.846		
	09 00	0009	0.870		

STORET RETRIEVAL DATE 76/09/24

081102
40 13 39.0 104 38 25.0 3
MILTON RESERVOIR
08123 COLORADO

091091

11EPALES 2111202
0015 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CONDCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P
75/05/06	15 30	0000	13.2	6.2	120	1042	8.35	276	1.450	2.700	0.830	1.090
	15 30	0005	13.1	6.0		1032		288	1.460	2.800	0.820	1.000
	15 30	0011	12.6	5.8		1025	8.40	276	1.770	2.700	0.820	1.090
75/08/26	10 20	0000	22.5	7.2	40	1306	9.00	350	0.180	1.300	0.020	0.501
	10 20	0004	21.0	7.2		1258	9.05	374	0.110	1.300	0.020K	0.500
75/10/10	09 30	0000	13.0	6.0	36	1087	8.20	350	1.910	3.100	0.840	0.688

DATE FROM TO	TIME OF DAY	DEPTH FEET	00665 PHOS-TOT MG/L P	32217 CHLRPHYL A UG/L	00031 INCDT LT REMNING PERCENT
75/05/06	15 30	0000	1.160		1.4
	15 30	0005	1.170		
	15 30	0011	1.160		
75/08/26	10 20	0000	0.720	16.0	
	10 20	0004	0.736		
75/10/10	09 30	0000	0.838	4.3	

K VALUE KNOWN TO BE
LESS THAN INDICATED

APPENDIX D
TRIBUTARY AND WASTEWATER
TREATMENT PLANT DATA

STORET RETRIEVAL DATE 76/09/24

0811A1
40 14 20.0 104 38 15.0 4
GILMORE DITCH
08 7.5 MILTON RES
0/MILTON RESERVOIR 091091
BELO MILTON RES DAM 10.6 MI SE LASALLE
11EPALES 2111204
0000 FEET DEPTH CLASS 00

DATE	TIME	DEPTH	00630	00625	00610	00671	00665
FROM	OF		N02&N03	TOT KJEL	NH3-N	PHOS-DIS	PHOS-TOT
TO	DAY	FEET	N-TOTAL	N	TOTAL	ORTHO	
			MG/L	MG/L	MG/L	MG/L P	MG/L P
75/04/18	10	15	0.575	5.000	1.450	1.400	1.500
75/05/29	14	10	0.820	2.900	0.710	0.960	0.960
75/06/14	10	20	0.010	3.000	0.035	0.470	0.990
75/06/28	13	46	0.010	2.100	0.030	0.260	0.570
75/07/23	10	40	0.015	2.000	0.220	0.770	0.880

STORET RETRIEVAL DATE 76/09/24

081181
40 12 14.0 104 38 58.0 4
BEESE CANAL
08 7.5 MILTON RES
T/MILTON RESERVOIR 091091
SEC RD BRUG 5.7 MI S OF MILTON RES DAM
11EPALES 2111204
0000 FEET DEPTH CLASS 00

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
74/09/29	10 57		1.400	0.100K	0.075	0.102	0.235
74/11/23	14 15		1.290	2.700	0.085	0.045	0.140
75/04/19	14 15		0.610	2.000	0.045	0.050	0.130
75/05/29	14 45		1.570	5.250	0.830	0.720	1.500

K VALUE KNOWN TO BE
LESS THAN INDICATED

STORET RETRIEVAL DATE 75/09/24

0811C1
40 15 55.0 104 39 55.0 4
PLATTE VALLEY CANAL
08 7.5 LASALLE
T/MILTON RESERVOIR 091091
SEC RD BRDG 8 MI SE OF LASALLE
11EPALES 2111204
0000 FEET DEPTH CLASS 00

DATE	TIME	DEPTH	00630	00625	00610	00671	00665
FROM	OF		N02&N03	TOT KJEL	NH3-N	PHOS-DIS	PHOS-TOT
TO	DAY	FEET	N-TOTAL	N	TOTAL	ORTHO	
			MG/L	MG/L	MG/L	MG/L P	MG/L P
74/09/29	10	25	5.440	4.630	2.700	0.028	0.053
74/11/23	13	50	4.760	1.600	0.240	1.050	1.050
75/04/19	16	35	3.000	8.750	4.900	1.300	3.700
75/05/18	11	15	3.400	3.600	1.030	1.280	1.650
75/05/29	15	15	1.200	3.200	0.345	0.950	1.200
75/06/14	15	10	2.750	2.400	0.640	1.200	1.500
75/06/28	14	22	1.150	1.850	0.060	0.912	1.070
75/07/23	11	15	1.650	1.980	0.425	0.675	0.790
75/09/04	09	20	0.640	2.600	0.040	0.900	1.200

STORET RETRIEVAL DATE 76/09/24

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 HUDSON
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DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/12/17	16 00		1.120	17.000	5.000	2.100	3.700	0.050	0.050
75/01/06	09 00		0.080	24.000	12.500	5.050	6.100	0.050	0.050
75/02/03	15 00		0.080	29.000	16.800	6.900	7.600	0.050	0.050
75/03/06	09 00		0.080	27.500	13.200	3.400	7.400	0.050	0.050
75/04/16	16 00		0.350	19.000	4.100	2.100	3.400	0.050	0.050
75/05/08	13 30		1.750	12.500	0.730	1.450	2.500	0.050	0.050
75/05/27	08 30		1.600	9.100	0.142	2.500	3.000	0.050	0.050
75/06/23	10 00		1.250	24.000	0.100	1.900	4.100	0.050	0.050
75/07/14	09 00		2.600	5.800	0.170	1.200	1.700	0.050	0.050
75/08/29	09 00		1.650	8.100	0.075	2.500	2.800	0.050	0.050
75/09/12	10 00		0.225	7.200	1.300	2.300	2.800	0.050	0.050
75/09/22	15 30		1.900	8.900	0.220	1.720	2.500	0.050	0.050