

Bearings Racine Co. SEB 21 Apr 86 chlor $\hat{=}$ 5 μ g l⁻¹ 50 ml

REL

note: not much algae present.

(x140, x560)

Abundant (5):

NONE

Very common (4):

Dinobryon divergens protoplast: 3 μ x 8 μ .

Common (3):

Synedra ulna 4 μ x 5 μ x 110 μ .

Chroocomonas ovata 5 μ x 10 μ .

Cyclotella sp. 14 μ d. x 7 μ d deep.

Occasional (2):

Tetraëdron minimum 4 μ x 10 μ x 10 μ . (a few smaller)

Oocystis sp. 3 μ x 8 μ .

Ceratium hirundinella total length 246 μ .

Cryptomonas ovata 12 μ x 14 μ x 20 μ long

Cercigenia quadrata @ cell 3 μ d.

Navicula sp. 10 μ x 14 μ across @ mid x 70 μ long

Scenedesmus quadratus var. quadrispina 3 μ d. x 10 μ long

Zooplankton Data - Browns Lake - Racine Co. 1986

Key = Abundent 5
 Very Common 4
 Common 3
 Occasional 2
 Present 1
 Absent 0

Lake Name	Browns Lake Racine County	Browns Lake Racine County	Browns Lake Racine County	Browns Lake Racine County
County Name				
Water Body #				
STORET #				
Latitude				
Longitude				
Collector				
Collection Date	21-Apr-86	25-Jun-86	10-Jul-86	13-Aug-86
Year	86	86	86	86
Month	4	6	7	8
Day	21	25	10	13
Identification By	Woolsey, Edward A.	Woolsey, Edward A.	Woolsey, Edward A.	Woolsey, Edward A.
Date of Identification	Dec 87	Dec 87	Dec 87	Dec 87
Tow Length Meters	13.4	13.4	13.4	13.4
Liter/(MG/L) Subsample	0.696	0.696	0.696	0.696
Size-Daphnia-Number		15	13	
Size-Daphnia-Mean mm		1.19	1.18	
Size-Daphnia-Standard deviation		0.24	0.2	26
Size-Copepods-Number	29	30	27	1.31
Size-Copepods-Mean	0.88	1.12	1.16	0.32
Size-Copepods-Standard deviation	0.34	0.32	0.34	30
Size-All Zooplankton-Number	32	33	31	1.01
Size-All Zooplankton-Mean	0.67	0.94	1.06	0.34
Size-All Zooplankton-SD	0.3	0.38	0.29	2
Acanthocyclops vernalis	0	0	0	2
Bosmina longirostris	3	2	2	2
Chydorus sphaericus	3	3	3	0
Daphnia galeata mendotae	0	3	2	0
Diacyclops thomasi	3	3	3	4
Diaphanosoma leuchtenbergianum	0	3	2	3
Mesocyclops edax	0	3	3	2
Skistodiaptomus oregonensis	0	3	2	2
Ceriodaphnia lacustris	3	2	3	0
Daphnia retrocurva	0	3	2	0
Daphnia catawba	2	0	0	0
Ceriodaphnia affinis	2	0	0	0
Eubosmina coregoni	3	0	2	3
Leptodoria kindtii	0	0	3	3
Skistodiaptomus pallidus	2	3	3	3
Tropocyclops prasinus	0	2	3	0
Chaoborus sp	0	0	2	

Lake: Browns Lake
County: Racine
Date: July 1986

Cyanobacteria

3 *Anabaena circinalis*
3 *Aphanothece* sp.
1 *Chroococcus* cf. *limneticus*
4 *Microcystis* sp.

Diatoms

1 *Synedra* sp.

Dinoflagellates

3 *Ceratium hirundinella*

Cryptomonads

1 *Chroomonas reflexa*
1 *Cryptomonas ovata*

Green algae

2 *Chlorella* sp.
3 cf. *Coccomyxa* sp.
1 *Cosmarium* sp.
1 *Kirchneriella* sp.
4 *Lagerheimia* sp.
4 *Oocystis* cf. *marssonii*

Chrysophytes

Euglenoids

Ratio: Eukaryotic Algae / Cyanobacteria
by biomass - 30 / 70
by cell density - 40 / 60

"Unit" Size Distribution (as percent)

1-10um: 40
11-20um: 10
21-30um:
31-40um:
41-50um:
51-60um:
61-70um: 5
71-80um: 10
>80um: 35

NOTE: No flagellates.

Lake: Browns Lake
County: Racine
Date: August 1986

Cyanobacteria

- 1 Anabaena circinalis
- 2 Microcystis sp.

Diatoms

Dinoflagellates

- 1 Ceratium hirundinella

Cryptomonads

- 1 Chroomonas minuta
- 1 Cryptomonas ovata

Green algae

- 3 Chlorella sp.
- 3 cf. Coccomyxa sp.
- 2 Lagerheimia sp.
- 3 Oocystis cf. marssonii
- 1 Quadrigula chodatii

Chrysophytes

Euglenoids

Ratio: Eukaryotic Algae / Cyanobacteria
by biomass - 60 / 40
by cell density - 50 / 50

"Unit" Size Distribution (as percent)

- 1-10um: 70
- 11-20um: 10
- 21-30um:
- 31-40um:
- 41-50um:
- 51-60um:
- 61-70um:
- 71-80um:
- >80um: 20

NOTE: No flagellates.

Water Body No.:
 Lake: Browns
 County: Racine
 DNR District: SED

Zooplankton 1988

Collected by:
 Identified by: Dr. William E. Walton

Key = Abundant 5 Occasional 2
 Very Common 4 Present 1
 Common 3 Absent 0

	17 Feb	14 Apr	8 Jun	18 Jul	23 Aug
Tow length (m)	0.1	0.1	0.1	0.1	0.1
Subsample volume	0.1	0.1	0.1	0.1	0.1
Daphnia					
Number	2	0	25	13	11
Mean size (mm)	1.50		0.96	0.74	0.73
Standard deviation	0.08		0.20	0.17	0.19
Copepods					
Number	39	29	63	71	64
Mean size (mm)	0.83	0.50	0.67	0.64	0.51
Standard deviation	0.40	0.41	0.37	0.37	0.35
All zooplankton					
Number	66	48	116	122	114
Mean size (mm)	0.70	0.46	0.68	0.57	0.48
Standard deviation	0.39	0.32	0.35	0.33	0.30

		17 Feb	14 Apr	8 Jun	18 Jul	23 Aug
Leptodiaptomus siciloides	LEPSIC	2	0	0	0	0
Skistodiaptomus oregonensis	SKIOR	3	1	4	3	0
Skistodiaptomus pallidus	SKIPA	3	1	1	5	4
Calanoid copepodids	CALCO	0	3	5	4	5
Calanoid nauplii	CALNA	0	2	5	5	5
Diacyclops bicuspidatus thomasi	DIATH	5	5	3	0	5
Mesocyclops edax	MESED	1	1	5	5	3
Orthocyclops modestus	ORTMO	0	0	0	0	1
Tropocyclops prasinus	TROPR	4	2	4	5	0
Cyclopoid copepodids	CYCCO	5	5	5	5	5
Cyclopoid nauplii	CYCNA	5	5	5	5	5
Alona quadrangularis	ALOQU	5	3	0	0	0
Bosmina longirostris	BOSLO	5	5	3	3	5
Ceriodaphnia lacustris	CERLA	2	0	3	5	5
Chydorus sphaericus	CHYSP	4	5	5	5	4
Daphnia ambigua	DAPAM	0	0	5	2	0
Daphnia galeata mendotae	DAPGM	2	0	4	5	2
Daphnia pulicaria	DAPPUL	2	0	0	0	0
Daphnia retrocurva	DAPRE	0	0	5	3	5
Diaphanosoma birgei	DIABI	0	0	4	5	5
Eubosmina coregoni	EUBCO	0	0	3	2	0
		0	1	0	0	0

DNR BASELINE MONITORING

Lake Name Browns Date 4/19/01 Time 10:44 AM
 Sample Location (e.g., deepest point in basin) Deep Spot
 WBIC 750300 % Cloud Cover/Precip 100% / dry
 Observers Bunk, Wind Speed 15 mph from W Direction
Hellker, Luba

Field Measurements and Observations

Secchi Disk 26 (m or ft) Custer Color Strip Reading 6
 Algae Development - Not apparent _____
 Slight (just visible) _____
 Moderate (quite noticeable) X
 Heavy (very green) _____
 Site depth 40 (m or ft)
 pH at 1 meter 8.64

Profiles

Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS
1	12.66	10.59	468	36	11.80	9.50	468				
3	12.68	10.57	467	33	11.63	9.46	469				
6	12.66	10.56	468	36	11.44	9.44	469				
9	12.65	10.55	467								
12	12.65	10.53	467								
15	12.65	10.52	468								
18	12.41	10.28	468								
21	12.42	10.07	467								
24	12.44	9.89	468								
27	12.15	9.68	468								

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

Depth of Integrated Water Sample 1 m or ft SLH Field Number Brown 1 @ 1 ft
35
 Amount filtered for chlorophyll 900 mLs for Brown 1
Brown 2 @ 35 ft

Comments / Observations

DNR BASELINE MONITORING

Lake Name Browns Lake Date 6/25/01 Time 1:32 PM

Sample Location (e.g., deepest point in basin) Deep spot @ 48 ft

WBIC 0750300 % Cloud Cover/Precip 0 / Dry

Observers Powers Wind Speed 10 mph from W Direction
Bmk

Field Measurements and Observations

Secchi Disk 2.3 (m or ft) Custer Color Strip Reading _____

Algae Development – Not apparent _____
Slight (just visible) X _____
Moderate (quite noticeable) _____
Heavy (very green) _____

Site depth 48 (m or ft)
pH at 1 meter 8.74

Profiles

Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS
1	10.11	24.57	437	45	0.26	13.74	549				
3	9.94	24.52	436	50	0.20	13.75	551				
5	9.9	24.48	436								
10	9.92	24.36	435								
15	10.62	18.95	443								
20	8.62	15.84	447								
25	4.94	15.10	447								
30	3.38	14.5	449								
35	1.50	14.42	452								
40	0.40	14.00	457								

Meter Type and ID Number(s) HydroLab Surveyor 3

Water Samples

Depth of Integrated Water Sample 0-6 m or ft SLH Field Number Brown 1

Amount filtered for chlorophyll 800 mLs
Brown 2 40 ft
pH 7.82

Comments / Observations

Trend

Racine Co. extra sample ✓

DNR BASELINE MONITORING

Lake Name Browns Lake Date 9 / 20 / 2000 Time 11:08

Sample Location (e.g., deepest point in basin) Deep Spot

BIC 0750300

% Cloud Cover/Precip Rain 100% clouds

Observers Keith Larson

Wind Speed 15 mph from SW Direction

North Bank

Field Measurements and Observations

Secchi Disk 2.5 (m or ft)

Custer Color Strip Reading 6

Algae Development - Not apparent _____

Site depth _____ (m or ft)

Slight (just visible) X

Moderate (quite noticeable) _____

Heavy (very green) _____

pH at 1 meter 8.10

8.12

Profiles

Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS
1	8.78	16.4	483	30		16.4					
3	8.75	16.6	483	33							
2	8.71	16.4	483	36							
20	8.71	16.6	483	39							
2	8.65	16.5	483								
2	8.55	16.4	483								
2	8.52	16.6	483								
2	8.48	16.6	485								
2	8.47	16.6	486								
2	8.45	16.6	486								

Meter Type and ID Number(s) _____

Water Samples

Depth of Integrated Water Sample 2.5 m or ft SLH Field Number Brown 1

Amount filtered for chlorophyll _____ mLs

Comments / Observations

DNR BASELINE MONITORING

Lake Name Browns Lake Date 9/20/2000 Time 11:08
 Sample Location (e.g., deepest point in basin) Deep Spot
 WBIC 0750300 % Cloud Cover/Precip 100% Rain!
 Observers Heidi Bunk Wind Speed 15 mph from SW Direction
 Keith Larson

Field Measurements and Observations

Secchi Disk 2.5 (m or ft) Custer Color Strip Reading 6
 Algae Development – Not apparent _____
 Slight (just visible) X
 Moderate (quite noticeable) _____
 Heavy (very green) _____
 Site depth 45 (m or ft)
 pH at 1 meter 8.12

Profiles

Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS
1	8.78	19.64	483	30	0.65	13.4	504				
3	8.75	19.66	483	33	0.36	12.95	516				
6	8.71	19.64	483	36	0.27	11.39	526				
9	8.71	19.66	483	39	0.23	10.14	530				
12	8.65	19.65	483	42	0.21	9.83	534				
15	8.55	19.58	483	45	0.19	9.62	536				
18	8.50	19.58	483								
21	8.48	18.73	485								
24	6.36	18.73	486								
27	7.67	16.13	504								

Meter Type and ID Number(s) _____

Water Samples

Depth of Integrated Water Sample 24 m or ft SLH Field Number Brown 1
 Amount filtered for chlorophyll 600 mLs

Comments / Observations

Ambient

Racine Co.

DNR BASELINE MONITORING

Lake Name Browns Lake Date 3/1/01 Time 14:30
 Sample Location (e.g., deepest point in basin) deepest point - 50'
 WBIC 0750300 % Cloud Cover/Precip 10%
 Observers Landi Wind Speed 15 mph from W Direction
Toshner

Field Measurements and Observations

Secchi Disk 3.5 (m or ft) Custer Color Strip Reading _____
 Algae Development - Not apparent _____ Site depth 52 (m or ft)
 Slight (just visible) X
 Moderate (quite noticeable) _____ pH at 1 meter 9.09
 Heavy (very green) _____

Profiles

Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS	Depth ft or m	DO mg/L	Temp °C	Cond µS
0	11.55	3.21	489								
5	11.04	4.15	544								
10	8.15	4.60	564								
15	4.73	5.00	588								
20	1.01	5.09	629								
25	0.72	4.90	647								
30	0.45	4.88	673								
35	0.32	4.91	692								
40	0.28	5.00	730								

Meter Type and ID Number(s) Hydrolab Surveyor 3 - Lakes

Water Samples

Depth of Integrated Water Sample _____ m or ft SLH Field Number BRN-142
 Amount filtered for chlorophyll _____ mLs

Comments / Observations

State Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
2601 Agriculture DR, Madison WI 53718
R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director

Environmental Science Section (608) 224-6277 DNR LAB ID 113133790
Inorganic chemistry (#1 of 9 on 03/20/01, unseen)

Id: 523120 Point/Well/...: Field #: BRN-2 Route: FH20
Collection Date: 03/01/01 Time: 14:30 County: 52 (Racine)

From: BROWNS LAKE

Description: DEEP HOLE, 50FT

To: BUNKH

DNR
MILWAUKEE

Source: Surface Water
Sample depth: 47 Feet
Collected by:

Account number: FH007

Waterbody/permit/...: 0750300

Filtered, H, I, L, Filtered, C

Date Received: 03/02/01 Labslip #: IL017557 Reported: 03/19/01

TOTAL PHOSPHORUS (AS P) (EPA 365.1)	0.049	MG/L
DEPTH OF SAMPLE (FEET)	47.0	FT
SAMPLE TEMPERATURE-FIELD (CELSIUS)	5.0	C
AMBIENT AIR TEMPERATURE-FIELD (CELSIUS)	6.0	C
DISSOLVED OXYGEN-FIELD (MG/L)	0.28	MG/L
SECCHI DEPTH (FEET)	3.5	FT <i>m</i>
CLOUD COVER %	10	%
CONDUCTIVITY-FIELD (UMHOS/CM@25 DEG.C)	730	UMHOS/CM
TEMPERATURE ON RECEIPT-ICED	ICED	C

Date	9-1-98
Lake	Browns LK
Time	11:06
County	RACINE
Storet Number	_____
Water Body Number	_____
Lake Acreage	_____
Maximum Depth	_____
Air Temperature	_____

Station Location

Light Penetration Station	Secchi Disc Depth in Meters 1.3 Secchi M.
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
	1'	8.3	25.13	
	5'	8.37	25.02	
	10'	8.29	24.96	
	15'	7.5	24.19	
	20'	0.31	23.21	
	25'	0.13	16.6	
	30'	0.13	12.24	
	35'	0.12	10.23	
	40'	0.12	9.65	
	48'	0.11	9.61	

Depth	D.O.	Temp.	pH

Wind Speed and Direction	Cloud Cover 0%
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Macrophyte Sampling Information

Additional Comments or Remarks

Browns Lake
7-27-98

TEMP	pH	SpCOND	TDS	DO	DEPTH
25.68	8.6	482	0.309	7.52	1
25.67	8.63	482	0.309	7.49	5
25.63	8.64	482	0.309	7.46	10
25.57	8.64	482	0.308	7.24	15
21.83	7.96	505	0.323	0.28	20
14.32	7.84	514	0.329	0.17	25
11.15	7.69	514	0.329	0.16	30
10.05	7.61	518	0.331	0.15	35
9.4	7.54	523	0.335	0.14	40
9.31	7.51	525	0.336	0.13	45

SD = 2.1 m

Browns Lake, Racine Co.
6/23/98

Temp	pH	Cond	TDS	DO	Depth
27.53	8.45	480	0.307	9.17	1
26.93	8.47	481	0.308	9.35	5
25.93	8.42	481	0.308	8.52	10
21.06	8.35	491	0.314	8.35	15
16.96	7.73	501	0.32	1.22	20
12.46	7.6	503	0.322	0.67	25
10.11	7.46	505	0.323	0.15	30
9.52	7.35	508	0.325	0.12	35
9.16	7.28	512	0.328	0.11	40
9.08	7.25	514	0.329	0.1	45

SECCHI DEPTH 2.4m

Browns Lake
4/2/98

TEMP.	pH	SpCond	TDS	DO	Depth
11.31	8.29	498	0.319	9.69	1
11.33	8.35	498	0.318	9.62	5
11.33	8.37	498	0.319	9.6	10
11.32	8.38	499	0.319	9.53	15
11.33	8.38	499	0.319	9.63	20
11.33	8.39	499	0.32	9.6	25
11.33	8.39	499	0.319	9.63	30
11.27	8.39	499	0.319	9.57	35
11.11	8.38	499	0.319	9.45	40
10.84	8.36	499	0.32	9.41	45
7.8	8.11	504	0.323	8.58	50

Date	8/27/97
Lake	Browns
Time	10:30
County	
Storet Number	
Water Body Number	
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters
	2.7 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	CO ₂	TDS	Depth	D.O.	Temp.	pH
	1	8.1	25.6	8.6	511	.327				
	5	8.0	25.3	8.6	511	.327				
	10	7.8	25.1	8.6	512	.328				
	15	7.5	24.9	8.5	513	.328				
	20	0.2	21.3	7.8	521	.333				
	25	1.1	17.1	7.7	534	.342				
	30	0.8	14.3	7.7	536	.343				
	35	0.1	12.8	7.6	543	.347				
	40	0.1	12.2	7.5	546	.350				
	45	0.1	11.9	7.4	552	.353				

Wind Speed and Direction	Cloud Cover
	10%

Macrophyte Sampling Information

Additional Comments or Remarks

Date	7-24-97
Lake	Browns
Time	1250
County	
Lake Acreage	
Storet Number	
Maximum Depth	
Water Body Number	
Air Temperature	
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters
	5.3m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	TDS	Depth	D.O.	Temp.	pH
	0	8.1	25.6	8.6	511	.327				
	5	8.1	25.3	8.6	511	.327				
	10	7.9	25.1	8.6	511	.327				
	15	7.5	24.9	8.5	512	.328				
	20	0.2	21.4	7.8	520	.333				
*	25	1.2	17.3	7.7	533	.341				
	30	0.8	14.3	7.7	537	.343				
	35	0.1	12.8	7.6	545	.349				
	40	0.1	12.2	7.5	548	.350				
	45	0.1	11.9	7.4	551	.353				

Wind Speed and Direction	Cloud Cover
SE 0-5	40%

Macrophyte Sampling Information

Additional Comments or Remarks

	Date	6/25/97
Lake Browns	Time	13:00
County	Lake Acreage	
Storet Number	Maximum Depth	
Water Body Number	Air Temperature	

Station Location

Light Penetration Station	Secchi Disc Depth in Meters	4.7m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	TDS	Depth	D.O.	Temp.	pH
	0	8.5	26.8	8.6	498	319				
		8.6	26.8	8.6	498	319				
	10	8.9	26.6	8.6	497	318				
		8.1	22.4	8.5	510	326				
*	20	5.7	18.0	8.2	529	339				
		3.5	15.4	7.9	531	340				
	30	1.9	14.0	7.7	534	342				
		0.8	13.0	7.6	538	344				
	40	0.1	11.9	7.5	543	347				
	45	0.1	11.8	7.5	543	348				

Wind Speed and Direction	Cloud Cover	10%
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Macrophyte Sampling Information

Additional Comments or Remarks

Lake Browns
 County Washburne Racine
 Storet Number _____
 Water Body Number _____

Date 4-30-97
 Time 12:31
 Lake Acreage _____
 Maximum Depth 48'
 Air Temperature 58°F

Station Location Deep Hole

Light Penetration Station _____
 Secchi Disc Depth in Meters 3.0

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Cond	Depth	D.O.	Temp.	pH
	0	11.05	13.41	8.61	527				
	5	10.94	13.38	8.62	527				
	10	10.96	13.32	8.62	527				
	15	10.68	12.96	8.59	527				
	20	10.58	12.49	8.57	527				
	25	9.20	10.29	8.43	528				
	30	9.32	7.89	8.38	527				
	35	8.10	7.56	8.36	526				
	40	8.60	7.45	8.30	528				
	45	8.21	7.43	8.26	529				

Wind Speed and Direction E - 10-15
 Cloud Cover 50%

Macrophyte Sampling Information

Additional Comments or Remarks

Date 8-27-96	
Lake Browns Lk	Time 1500
County	Lake Acreage
Storet Number	Maximum Depth
Water Body Number	Air Temperature
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters 2.3 m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	DO	Temp.	pH
	0	8.4	25.4	8.2	496	317	
	5	8.2	25.4	8.2	495	317	
	10	7.4	24.9	8.2	494	316	
	15	6.7	24.4	8.1	496	318	
	20	1.7	21.6	7.6	517	331	
*	25	0.2	15.8	7.2	548	350	
	30	0.1	12.6	7.2	549	353	
	35	0.1	10.7	6.7	562	359	
	40	0.1	10.1	6.8	570	365	
	45	0.1	10.0	6.8	573	367	

Wind Speed and Direction WSE 5-15	Cloud Cover 80%
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Macrophyte Sampling Information

Additional Comments or Remarks

Date	7-2-96
Lake	BROWN'S LAKE
Time	9:35
County	
Storet Number	
Water Body Number	
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters
	2.2 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	TDS	Depth	D.O.	Temp.	pH
	SURF	9.10	26.79	8.6	421	.270				
	5	9.11	26.81	8.6	422	.270				
	10	8.96	26.81	8.6	422	.270				
*	15	10.52	21.20	8.3	439	.241				
	20	7.25	16.87	8.0	458	.293				
	25	5.61	13.46	7.9	468	.300				
	30	3.48	11.60	7.7	475	.303				
	35	0.13	10.02	7.4	483	.308				
	40	0.09	9.72	7.3	486	.312				

Wind Speed and Direction	Cloud Cover
SW 0-5 mph	90%

Macrophyte Sampling Information

Additional Comments or Remarks

THUNDERSTORM THE PREVIOUS NIGHT

Date 4-16-96	
Lake Browns Lk	Time 11:00
County	Lake Acreage
Storet Number	Maximum Depth
Water Body Number	Air Temperature

Station Location

Light Penetration Station	Secchi Disc Depth in Meters 4.0
---------------------------	------------------------------------

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Cond	TDS	Depth	D.O.	Temp.	pH
	1	11.7	7.2	8.2	464	297				
	5	11.6	7.2	8.2	"	"				
	10	11.6	7.1	8.2	"	"				
	15	11.6	7.1	8.3	"	"				
	20	11.5	7.1	8.3	"	"				
	25	11.5	7.1	8.3	"	"				
	30	11.5	7.1	8.3	"	"				
	35	11.5	7.1	8.3	"	"				
	40	11.5	7.1	8.3	"	"				
	45	11.5	7.1	8.3	"	"				

Wind Speed and Direction NNW 10-15 MPH	Cloud Cover 100%
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Macrophyte Sampling Information

Additional Comments or Remarks

Browns Lake, Racine Co.
Sample Date: 2/22/96

Secchi Depth 4.5 m

	Temp	pH	SpCond	TDS	DO	Depth	
142640	1.37	8.18	0.26	0.166	8.21	1	
143123	4.77	8.15	0.54	0.345	11.03	5	
143357	4.79	8.17	0.543	0.347	11.02	10	
143648	4.79	8.16	0.544	0.348	10.63	15	
144437	4.63	7.98	0.557	0.356	7.8	20 *	
144743	4.66	7.73	0.565	0.361	4.61	25	
145219	4.83	7.57	0.573	0.367	2.93	30	
150123	5.01	7.44	0.594	0.38	1.66	35	
150407	5.07	7.38	0.603	0.386	0.48	40	

A	A	B	C	D	E	F
73	Browns Lake			Secchi = 2.2 m		
74	9/19/95					
75						
76						
77	Depth	Temp	pH	Cond	TDS	DO
78						
79	0	19.07	8.56	0.297	0.19	6.97
80	5	19.1	8.42	0.297	0.19	6.95
81	10	19.11	8.44	0.297	0.19	6.92
82	15	19.09	8.45	0.297	0.19	6.87
83	20	19.02	8.4	0.3	0.192	6.05
84	25	16.25	7.31	0.342	0.219	0
85	30	12.2	7.12	0.359	0.23	0

	Date	7-20-95
Lake	Time	1400
County	Lake Acreage	
Storet Number	Maximum Depth	
Water Body Number	Air Temperature	

Station Location

Light Penetration Station	Secchi Disc Depth in Meters	3.0 m
---------------------------	-----------------------------	-------

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Code	TDS	Depth	D.O.	Temp.	pH
	0	8.3	26.9	8.3	463	.296				
	5	8.4	26.6	8.4	462	.296				
	10	7.7	26.4	8.4	463	.296				
	15	6.7	25.1	8.2	465	.298				
	20	1.2	22.6	7.7	469	.300				
	25	0.0	20.0	7.4	477	.305				
⊕	30	1.0	16.1	7.4	484	.311				
	35	0.0	12.2	7.2	497	.318				
	40	0.0	10.2	7.1	507	.324				
	45									

Wind Speed and Direction	Cloud Cover	80%
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Macrophyte Sampling Information

Additional Comments or Remarks

THE D.O ↑ @ 30' WAS DOUBLE CHECKED AND CONFIRMED!

Date		4-20-95	
Lake		Browns Lake	
County		Lake Acreage	
Storet Number		Maximum Depth	
Water Body Number		Air Temperature	
Station Location			

Light Penetration Station	Secchi Disc Depth in Meters
	3.3 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Cond TSS	Depth	D.O.	Temp.	pH
	0	11.56	9.14	8.22	0.539 0.341				
	5	11.52	9.16	8.25	0.537 0.341				
	10	11.49	9.15	8.30	0.539 0.345				
	15	11.47	9.15	8.32	0.539 0.345				
	20	11.46	9.16	8.34	0.539 0.345				
	25	11.46	9.16	8.35	0.539 0.345				
	30	11.44	9.16	8.36	0.539 0.345				
	35	11.4	9.2	8.4	.540 .345				
	40	11.4	9.2	8.4	.540 .345				
	45	11.4	9.2	8.4	.540 .346				

Wind Speed and Direction	Cloud Cover
EPE 10-20 mph	100

Macrophyte Sampling Information

Additional Comments or Remarks

	Date	2-21-95
Lake	Time	10:00
County	Lake Acreage	
Storet Number	Maximum Depth	
Water Body Number	Air Temperature	
Station Location		

Light Penetration Station	Secchi Disc Depth in Meters	3.6
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	TDS	Depth	D.O.	Temp.	pH
	0	9.8	3.9	7.7	.619	.396				
	5	9.7	4.0	7.7	.620	.397				
	10	11.1	4.1	7.8	.620	.397				
	15	12.7	3.7	7.9	.620	.397				
★	20	7.9	4.2	7.6	.632	.405				
	25	5.2	4.6	7.4	.640	.410				
	30	3.2	4.9	7.3	.656	.419				
	35	2.3	5.0	7.2	.664	.425				
	40	0.7	5.1	7.2	.674	.432				
	45	0.1	5.2	7.1	.692	.442				

Wind Speed and Direction	Cloud Cover
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Macrophyte Sampling Information

Additional Comments or Remarks

Date	9-14-94
Lake	Browns LK
Time	14:30
County	RAC Co.
Lake Acreage	
Storet Number	_____
Maximum Depth	
Water Body Number	_____
Air Temperature	
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters
	1.6 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	TDS	Depth	D.O.	Temp.	pH
	0	9.6	24.7	8.4	563	.360				
	5	9.6	24.3	8.5	563	.360				
	10	9.4	23.3	8.4	562	.359				
	15	6.3	20.1	8.2	560	.258				
	20	5.0	19.6	8.0	561	.359				
	25	0.1	18.6	7.6	562	.359				
*	30	0.0	15.4	7.3	563	.362				
	35	0.0	12.1	7.2	571	.364				
	40	0.0	11.1	7.1	583	.373				
	45	0.0	10.9	7.0	593	.380				

Wind Speed and Direction	ENE 0-7MPH	Cloud Cover	60%
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Macrophyte Sampling Information

Additional Comments or Remarks

Date		8/1/94
Lake	Browns Lake	
County	RAGINE	
Storet Number	_____	
Water Body Number	_____	
Time	1119	
Lake Acreage	_____	
Maximum Depth	40'	
Air Temperature	_____	
Station Location	_____	

Light Penetration Station	Secchi Disc Depth in Meters
	(4.7 ft) 1.6 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Sample				Lab				COND
	Depth	D.O.	Temp.	pH	Depth	D.O.	Temp.	pH	
	1'	8.61	24.8	*	1	—	—	8.62	.392
	5'	8.49	24.7		20	—	—	8.25	.396
	10'	8.20	24.6		35	—	—	7.46	422
	15'	6.77	23.0						
	20'	3.10	22.2	*					
	25'	0.11	18.9						
	30'	0.11	15.1						
	35'	0.09	13.2	*					
	40'	0.10	16.6						

Wind Speed and Direction	Cloud Cover

Macrophyte Sampling Information

Additional Comments or Remarks

		Date	6-30-94
Lake	BROWNS LAKE	Time	1300
County	RACINE Co.	Lake Acreage	396
Storet Number	5 2 3 1 2 0	Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0	Air Temperature	80°
Station Location	Maximum depth		

Light Penetration Station	Secchi Disc Depth in Meters
	1.9m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Cond	Depth	D.O.	Temp.	pH
	0	8.1	25.0	8.4	.520				
	5	8.4	23.9	8.5	.518				
	10	8.1	23.3	8.5	.519				
	15	7.7	23.2	8.4	.519				
	20	0.2	20.8	7.7	.533				
	25	0.1	16.1	7.6	.540				
	30	0.0	13.3	7.6	.539				
	35	0.0	11.4	7.5	.546				
	40	0.0	10.6	7.4	.552				
	43	0.0	10.4	7.4	.554				

Wind Speed and Direction	CALM	Cloud Cover	40%
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Macrophyte Sampling Information

Depth	TDS
0	.383
5	.382
10	.332
15	.332
20	.342
25	.346
30	.346
35	.357

Additional Comments or Remarks

4443 .355

Date	4-21-94
Lake	Brown's
Time	12:55
County	Racine
Lake Acreage	
Storet Number	
Maximum Depth	
Water Body Number	
Air Temperature	60°
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters
	5.0

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit
ft./m

Depth	D.O.	Temp.	pH
0	10.8	12.1/3.3	
5	10.8	12.0/3.2	
10	10.8	11.9/3.1	
15	10.8	11.9/3.1	
20	10.7	11.8/3.0	
25	10.6	11.8/3.0	

Depth	D.O.	Temp.	pH

Wind Speed and Direction	Cloud Cover
	10%

Macrophyte Sampling Information

Additional Comments or Remarks

Date		2-22-94	
Lake	BROWNS LAKE		
County	RACINE Co.		
Storet Number	5	2	3 1 2 0
Water Body Number	0	7	5 0 3 0 0
Time	1200		
Lake Acreage	396		
Maximum Depth	44 Ft.		
Station Location	Maximum depth		

Light Penetration Station	Secchi Disc Depth in Meters
	6.0 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
	0	16.3	0.7	8.1	289				
	5	8.5	4.2						
	10	4.6	3.5						
	15	4.8	3.5						
3.6 *	20	3.0	4.7						
	25	2.0	4.8	7.9	400				
	30	1.8	4.7						
	35	1.0	4.9	7.9	413				
	40								

Wind Speed and Direction	Cloud Cover
	100%

Macrophyte Sampling Information

42 41 02 - LORAW	42 41 07 - GPS
88 14 17	88 14 06

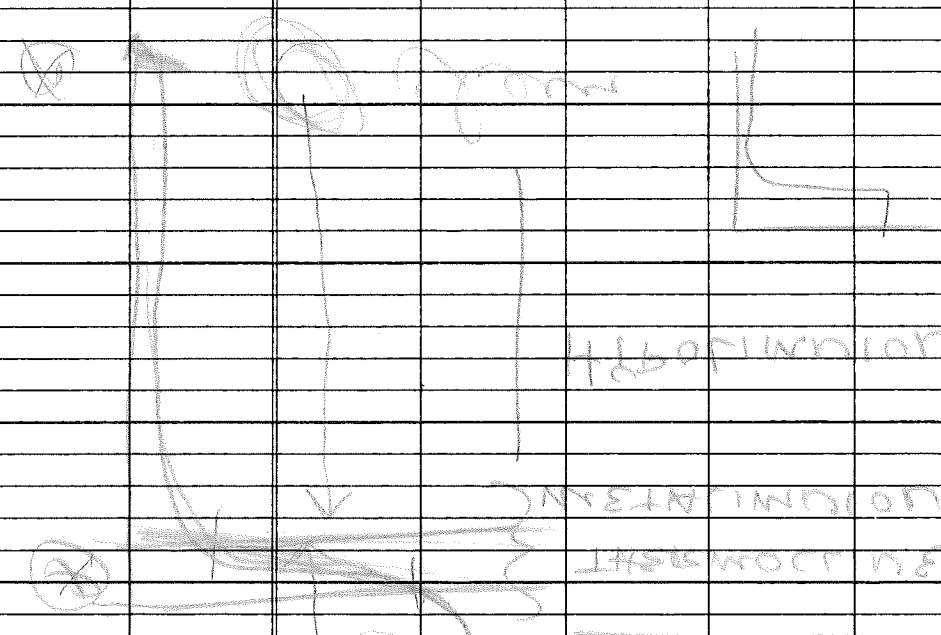
Additional Comments or Remarks

0% SNOW COVER
12" ICE

TEMP 75-80° 0% CLOUD COVER
WIND E 5-10
10:20 AM
7-15-93

Browns LK

Z	T °C	D.O	PH	COND	SECTH/ DISK				
					3.2 M				
0	24.0	8.2	8.6	470					
5	23.9	8.2							
10	23.9	7.8							
15	23.9	7.0							
* 20	19.1	0.4	8.0	485					
25	15.1	0.2							
30	13.6	0.1							
35	11.8	0.1							
40	10.8	0.1	7.5	528					
45									



Browns Lk.

10% cloudcover
W. 15-20 mph wind
1:00 6-14-93

z	D.O	temp. °C	pH	COND.	Seechi				
0	11.0	22.0	8.70	433	2.7 meters				
5	10.8	22.0							
10	10.8	22.0							
* 15	10.5	18.0	8.60	425	'				
20	7.2	15.8							
25	7.0	14.3							
30	4.6	12.9							
35	1.0	10.1							
40	0	11.0							
* 45	0	9.0	8.15	433					

10 MAY 1993 Browns Lake 09:50

WX: clear (0% cloud cover) samplers: Wakeman, Galarneau

Z	DO	Temp	pH	Cond	Secchi	STAFF GAUGE
0	10.4	19.2	8.2	497	2.75m	1.90
5	10.5	18.7			2.8m	
10	9.9	17.5				
* 15	8.2	13.8	7.8	520		
20	7.5	11.8				
25	5.8	10.8				
30	5.7	10.4				
35	4.5	10.0				
40 39	3.8	10.0	8.0	511		
* SPRING TURN OVER SAMPLE MID SAMPLE TAKEN						

BROWNS LK

2-17-93

16:00

TEMP 5°

Z	D.O	T°C	PH	COND	SECCHI	WIND	20-25	NW
0			8.6	228	No DATA			
5								
10								
15								
20								
25								
30								
35								
40								
45			7.4	506				
⊕ NO D.O./TEMP DATA - BAD MEMBRANE								
⊕ ICE 10" SNOW 2" 20% COVER								

Ambient Lake Monitoring

DATA SHEET
FORM 3600-49

DEPARTMENT OF NATURAL RESOURCES

01 SEP 1992

time: 1120

Browns Lake

WX Few Cirrus, Wind 5mph SW

Greg Borzick

Steve Galarnean

Depth	Temp °C	DO mg/L	% saturation		Cond	pH
SFC	21.0	8.7				
5'	20.5	8.7		surf	485	8.8
10'	20.3	9.0				
15'	20.1	8.4				
20'	19.9	8.1	87.9			
25'	19.4	7.1	76.0			
30'	13.9	0.2	1.9			
35'	11.7	0.1	1.4			
40'	11.0	0.1	1.2			
43'	10.8	0.1	1.1			
27'	15.0	0.2				
26'	18.7	6.0	Middle sample		495	8.9
44'	Bottom sample		Bottom sample		550	7.9
Sacchi	2.1m					

Date		6-18-92
Lake	BROWNS LAKE	
County	RACINE Co.	
Storet Number	5 2 3 1 2 0	Maximum Depth 44 Ft.
Water Body Number	0 7 5 0 3 0 0	Air Temperature 50°F
Station Location Maximum depth		

Light Penetration Station	Secchi Disc Depth in Meters 3.3
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
	Surf	12.6	18	
	5	12.2	18	
	10	11.8	18	
	15	11.6	18	
	17.5	13.2	14	
	20	11.6	12	
	22.5	10.0	11	
	25	8.4	10	
	30	5.0	8	
	35	4.8	7	

Depth	D.O.	Temp.	pH
40	4.8	6	
45	4.8	5	

Wind Speed and Direction 15 mph	Cloud Cover 0/10
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Macrophyte Sampling Information

Additional Comments or Remarks

Thermocline sample taken at 17'

YSI 32	YSI 33	pH
Sur .468	Sur 380 umhos	Sur 8.3 (8.6)
Mid .514	Mid 419 umhos	Mid 8.3
Bot .534	Bot 432 umhos	Bot 8.1

Date		4-16-92	
Lake	BROWNS LAKE	Time	
County	RACINE Co.	Lake Acreage	
Storet Number	5 2 3 1 2 0	396	
Water Body Number	0 7 5 0 3 0 0	Maximum Depth	
Station Location		44 Ft.	
Maximum depth		Air Temperature	

Light Penetration Station	Secchi Disc Depth in Meters
	4.6 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
	0	13.4	4.1	8.2	300				
	5	13.4	4.2						
	10	13.5	4.2						
	15	13.3	4.2						
	20	13.2	4.0						
	25	12.1	4.0						
	30	12.8	4.0	8.2	309				
	35								
	40								
	45								

Wind Speed and Direction	Cloud Cover
	100% Rain

Macrophyte Sampling Information

Additional Comments or Remarks

Browns LK 6/18/91 2:30 PM

Z	DO	T	pH	COND	SECCHI	2.4 m			
0	9.2	27	8.2	510					
5	9.2	26.5							
10	8.9	25							
15	9.7	20							
* 20	7.3	13	7.8	510					
25	2.8	12							
30	0.7	11							
35	0.6	10.5							
40	0.5	10.5							
45	0.5	10.0	7.4	510					
50	Bottom @ 46 FT			510					

		Date	4-25-91	
Lake	BROWNS LAKE		Time	11:20
County	RACINE Co.		Lake Acreage	396
Storet Number	5 2 3 1 2 0		Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0		Air Temperature	

Station Location
Maximum depth

Light Penetration Station	Secchi Disc Depth in Meters	2.5 - 7 ft.
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
	0	11.3	11.5	
	5	11.4	11.5	
	10	12.0	11.0	
	15	11.2	10.5	
	20	11.0	10.0	
	25	10.0	10.8	
	30	9.5	10.2	
	35	9.0	9.0	
	40	7.9	8.5	
	45	8.5	7.2	

Depth	D.O.	Temp.	pH
50	6.2	8.0	

Wind Speed and Direction	0-5 / south	Cloud Cover	100% Cloud Cover - Thin
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Macrophyte Sampling Information

Additional Comments or Remarks

Date		3-4-91	
Lake	BROWNS LAKE	Time	10:45
County	RACINE Co.	Lake Acreage	396
Storet Number	5 2 3 1 2 0	Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0	Air Temperature	

Station Location
Maximum depth

Light Penetration Station	Secchi Disc Depth in Meters	5.1
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
	0	11.8	7.5	8.05	146				
	5	15.2	5.0						
	10	15.2	5.1						
*	15	11.4	4.9	7.7	430				
	20	9.4	4.9						
	25	7.2	4.2						
	30	6.1	3.9						
	35	3.5	3.5	7.65	393				

Wind Speed and Direction	Cloud Cover	30%
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Macrophyte Sampling Information

Snow cover 0%
Ice 0"

RAIN ELIMINATED
AIRP. 715-369-4850
RAY
DAN

Additional Comments or Remarks

Date 23 AUG 90	
Lake BROWNS LAKE	Time 1435
County RACINE Co.	Lake Acreage 396
Storet Number 5 2 3 1 2 0	Maximum Depth 44 Ft.
Water Body Number 0 7 5 0 3 0 0	Air Temperature

Station Location
Maximum depth

Light Penetration Station	Secchi Disc Depth in Meters 2.0
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
	0	7.2	24	8.7	450				
	5	7.2	22.5						
	10	6.8	22.0						
	15	5.5	22.5						
	20	2.8	21.5						
*	24	0	19.0	8.2	500				
	30	0	17.0						
	35	0	15.5	7.7	510				
	41								

Wind Speed and Direction 0	Cloud Cover 75%
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Macrophyte Sampling Information

Additional Comments or Remarks

BOTTOM - 33 FT STAGE 1.92
MLD - 25 FT

Date	07-23-90
Lake	BROWNS LAKE
Time	16:30
County	
Lake Acreage	
Storet Number	
Maximum Depth	44"
Water Body Number	
Air Temperature	21
Station Location	

Light Penetration Station	5/4 ft Reading 1.86	Secchi Disc Depth in Meters	1.9 M
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
	0	10.1	23	
	5	8.2	23	
	10	6.3	23	
	15	5.0	20	
	20	3.0	19	
	25	0.5	18	
	30	0.4	15	
	35	0.3	14	
	40	0.3	13	
	45	0.2	12	

Depth	D.O.	Temp.	pH

11/0.25'
Bottom 45'

Wind Speed and Direction	N-NW - 10-15 mph	Cloud Cover	75%
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Macrophyte Sampling Information

Additional Comments or Remarks

Date	25 June 1990
Lake	BROWNS LAKE
Time	17:40
County	RACINE
Lake Acreage	396
Storet Number	Maximum Depth 45'
Water Body Number	Air Temperature 24.5°C
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters 2.5 m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
*	0	10.2	22.5	8.46
	5	10.2	22.0	
	10	10.2	21.5	
	15	9.5	20.0	
	20	8.8	19.5	
*	25	5.1	17.0	8.03
	30	1.8	15.5	
	35	0.7	15.0	
	40	0.2	14.0	
*	45	0.2	13.0	7.66

Depth	D.O.	Temp.	pH

Wind Speed and Direction	Cloud Cover
10-15 W	10%

Macrophyte Sampling Information

Additional Comments or Remarks

M.D.P. 25'

		Date	10 April 90	
Lake	BROWNS LAKE		Time	4:50
County	RACINE Co.		Lake Acreage	396
Storet Number	5 2 3 1 2 0		Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0		Air Temperature	5.5

Station Location
Maximum depth

Light Penetration Station	Secchi Disc Depth in Meters	3.5
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH
	0	14.8	16.5	
	5	14.4	6.5	
	10	14.4	7.0	
	15	14.4	7.0	
	20	14.0	7.0	
	25	14.0	7.0	
	30	13.8	7.6	
	35	13.8	7.0	
	40			
	45			

Depth	D.O.	Temp.	pH

Wind Speed and Direction	Cloud Cover	0%
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Macrophyte Sampling Information

Additional Comments or Remarks

	Date 26 Feb 90
Lake Brauns	Time 1500
County Racine	Lake Acreage
Storet Number	Maximum Depth 44'
Water Body Number	Air Temperature 30°F

Station Location
Drapet

Light Penetration Station	Secchi Disc Depth in Meters 4.5 m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
x	0	13.8	0.5	8.4	330				
	5	13.4	4.0						
	10	9.8	4.5						
	15	8.4	5.0						
y	20	8.2	5.0	7.3	420				
	25	7.8	5.0						
	30	7.0	5.0						
y	35	3.1	5.0	8.2	450				

Wind Speed and Direction 5 mph WSW	Cloud Cover HAZE
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Macrophyte Sampling Information

Additional Comments or Remarks
15" Brauns-like ice. 1-3" patches

MILPOT
MAY 1989



Date	8-22-89
Lake	Brown Lake
Time	1415
County	
Storet Number	
Water Body Number	
Station Location	
Light Penetration Station	
Secchi Disc Depth in Meters	1.8 m

Station Location

Light Penetration Station

Secchi Disc Depth in Meters

1.8 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
*	0	7.9	25.5	8.95	510				
	5	7.9	25.25						
	10	7.9	25.0						
*	15	3.1	22.5	8.50	500				
	20	0.3	21.5						
	25	0.2	16.5						
*	30	0.1	12.0	8.2	500				
	25								

Wind Speed and Direction

SW 10-20

Cloud Cover

25% Hazy

Macrophyte Sampling Information

Additional Comments or Remarks

SEA WALL CONCRETE

GAGE HT. 1.08 ft.

	Date 6-28-89
Lake Browns	Time 16:31
County	Lake Acreage
Storet Number	Maximum Depth
Water Body Number	Air Temperature
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters 3.0
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
*	0	10.0	25.3	8.9	480				
	5	10.1	25.3						
	10	9.0	23.5						
	15	8.8	19.7						
*	20	5.1	16.1	8.65	490				
	25	1.7	12.4						
*	28	0.4	11.5	8.3	490				

Wind Speed and Direction	Cloud Cover 0/10
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Macrophyte Sampling Information

Additional Comments or Remarks

		Date	4-27-89
Lake	BROWNS LAKE	Time	4:35
County	RACINE Co.	Lake Acreage	396
Storet Number	5 2 3 1 2 0	Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0	Air Temperature	
Station Location Maximum depth			

Light Penetration Station	Secchi Disc Depth in Meters	3.1
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
	0	11.1	14.1	8.4	401				
	5	11.0	14.1						
	10	11.2	12.5						
	15	11.5	12.0						
	20	10.8	11.0						
	25	10.2	9.9						
	30	9.2	8.5						
	35	9.0	8.2	8.11	399				

Wind Speed and Direction	0-7 NE	Cloud Cover	20%
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Macrophyte Sampling Information

1.52'

GRASS

Additional Comments or Remarks

	Date 2-21-89
Lake Browns L	Time 9:45
County	Lake Acreage
Storet Number	Maximum Depth
Water Body Number	Air Temperature
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters 3.0
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
*	0	16.6	0.7	8.1	310				
	5	14.0	4.2						
	10	13.4	4.5						
*	15	9.9	5.0	7.7	335				
	20	6.7	5.3						
	25	6.1	5.3						
	30	4.8	5.0						
*	35	1.2	5.0	7.5	375				

Wind Speed and Direction	Cloud Cover 90%
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Macrophyte Sampling Information

Additional Comments or Remarks

Ice THICK = .25 m
Snow cover 100% 5 IN.

Date	8-23-88
Lake	Browns
Time	16:15
County	Racine
Lake Acreage	
Storet Number	
Maximum Depth	42'
Water Body Number	
Air Temperature	

Station Location

Light Penetration Station	Secchi Disc Depth in Meters
	1.5

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
#	0	9.4	26	8.75	500				
	5	9.3	26						
	10	9.1	26						
*	15	9.4	25	8.6	510				
	20	8.4	21.3						
x	25	8.0	15.5	8.0	500				

Wind Speed and Direction	Cloud Cover
5-12 NW	30%

Macrophyte Sampling Information

Additional Comments or Remarks

COND ≈ 0.675

	Date
Lake Browns	7-18-88
County	Time 14:15
Storet Number	Lake Acreage
Water Body Number	Maximum Depth
	Air Temperature

Station Location

Light Penetration Station	Secchi Disc Depth in Meters 1.7
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	COND	pH	Depth	D.O.	Temp.	pH
*	0	8.5	27.0	440	8.9				
	5	8.6	27.0						
	10	7.6	26.8						
*	15	3.1	22.8	440	8.75				
	20	0.1	19.0						
o/s	25	0.6	13.2						
	30	0.1	10.5						
*	35	0.1	9.6	450	7.85				
	40								
	45								

Wind Speed and Direction	Cloud Cover 100
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Macrophyte Sampling Information

GLAZER 0.90

Additional Comments or Remarks

Date	6-8-88
Lake Drawns	Time 2:45 P.M.
County	Lake Acreage
Storet Number	Maximum Depth
Water Body Number	Air Temperature
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters 2.0
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
*	0	10.0	24.5	7.4	450				
	5	10.0	24.5						
	10	9.8	24.3						
	15	9.8	20.1						
	20	5.9	16.0						
X	25	2.0	11.5	7.5	440				
	30	0.2	10.0						
	35	0.1	9.2		470				
X	40	0.1	9.1	7.5					

Wind Speed and Direction 15-20 NE	Cloud Cover 100%
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Macrophyte Sampling Information

Additional Comments or Remarks

Staff Gauge 1.40

Date	4-14-88
Lake	Browns Lk
Time	08:50
County	
Storet Number	
Water Body Number	
Station Location	
Lake Acreage	
Maximum Depth	
Air Temperature	

Light Penetration Station	Secchi Disc Depth in Meters
	2.75 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
	0	11.0	11.8	7.4	510				
	5	11.0	11.8						
	10	10.9	11.8						
	15	10.9	11.8						
	20	10.9	11.5						
	25	10.9	11.4						
	30	8.1	9.2						
	35	7.9	8.2						
	37	7.0	8.0	7.7	510				

Wind Speed and Direction	Cloud Cover
10-15 N	0%

Macrophyte Sampling Information

Additional Comments or Remarks

1.88' GAGE NT

13:00

BROWN'S LAKE

2-17-88

WAKEMAN

	DEPTH	D.O	TEMP	PH	COND	SECCHI	DEPTH	2.25
							ICE DEPTH	0.3m
*	0	14.0	1.0	8.1	350			
	5	13.1	4.0					
	10	11.4	4.1					
*	15	8.2	4.1	7.8	380			
	20	6.9	4.2					
	25	6.3	4.2					
	30	5.2	4.2		415			
	35	4.5	4.2					
*	40	3.9	4.2	7.7	42	41.00 W		
	45				58	14.18 W		

WAKEMAN

Date	19 Aug 1947
Lake	Browns L.
Time	1525
County	RACING
Lake Acreage	
Storet Number	
Maximum Depth	
Water Body Number	
Air Temperature	
Station Location	

Light Penetration Station	Secchi Disc Depth in Meters	1.7 m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
*	1	8.1	25.8	8.4	418				
	5	8.0	25.8						
	10	7.9	25.5						
*	15	6.4	24.5	8.3	438				
	20	0.2	22.8						
	25	6.1	16.2						
	30	0.1	11.0						
*	34	0.1	9.5	7.6	430				

Wind Speed and Direction	Cloud Cover	10%
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Macrophyte Sampling Information

TURTLE	SAMPLE	001	MID LAKE
		002	NW CHANNEL
		003	N. SIDE OF LAKE TIPS ON SWING
		004	
		005	
		006	

Additional Comments or Remarks

STAFF GAGE = 1.18'

Date	7-22-87
Lake	Brecons
Time	3:45
County	
Storet Number	
Water Body Number	
Lake Acreage	
Maximum Depth	
Air Temperature	

Station Location

Light Penetration Station	Secchi Disc Depth in Meters
	1.75 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
*	0	8.9	29.2	8.6	490				
	5	8.9	29.1						
	10	6.0	26.0						
	15	5.8	23.5						
*	20	0.8	21.0	8.0	505				
	25	0.1	15.0						
	30	0.1	10.1						
	35	0.1	8.3						
*	40	0.1	8.0	7.7	465				
	45								

Wind Speed and Direction	Cloud Cover
	0%

Macrophyte Sampling Information

Additional Comments or Remarks

Date	4 Jun 87
Lake	Browns
Time	1420
County	Racco
Lake Acreage	
Storet Number	
Maximum Depth	
Water Body Number	
Air Temperature	65 °F

Station Location

Light Penetration Station	Secchi Disc Depth in Meters
	4.5

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH	
	0	8.8	23.6	7.9	550	48	.3	7.3	7.6	* 500
	5	9.0	23.5							
	10	8.5	23.4							
	15	7.8	18.3							
*	20	4.4	15.7	7.9	500					
	25	2.1	12.1							
	30	.2	9.1							
	35	.2	7.7							
	40	.2	7.4							
	45	.2	7.3							

Wind Speed and Direction	5-10 W	Cloud Cover	0-5% light haze
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Macrophyte Sampling Information

N/A

Additional Comments or Remarks

Moderate blue-green bloom

Date		7 APR '87		
Lake	BROWNS LAKE		Time	15:05
County	RACINE Co.		Lake Acreage	396
Storet Number	5 2 3 1 2 0		Maximum Depth	44 Ft.
Water Body Number	0 7 5 0 3 0 0		Air Temperature	55
Station Location				
Maximum depth				

Light Penetration Station	Secchi Disc Depth in Meters
	4.0

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH		Depth	D.O.	Temp.	pH
*	0	11.5	8.3	8.6	352				
	5	11.6	8.3						
	10	11.7	8.1						
	15	11.6	7.5						
4	20	11.4	7.2	8.6	340				
	25	11.4	7.1						
	30	11.4	6.9						
	35	11.4	6.6						
	40	11.4	6.5						
*	44	11.2	6.1	8.6	340				

Wind Speed and Direction	Cloud Cover
NE 7-12	0

Macrophyte Sampling Information

Additional Comments or Remarks

Date	2/25/87
Lake	BROWNS LK
Time	4:20
County	RACINE CO
Storet Number	523120
Water Body Number	
Maximum Depth	
Air Temperature	

Station Location
W 42 40.98 W 88 14.20

Light Penetration Station	Secchi Disc Depth in Meters
	5.0 m

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	COND	Depth	D.O.	Temp.	pH
* 1.0	1.0	13.4	4.2	6.9	340				
5	5	14.2	5.9						
10	10	14.4	5.7						
15	15	11.1	5.5						
* 20	20	7.1	5.4	6.8	410				
25	25	6.9	5.1						
30	30	4.7	5.0						
35	35	2.1	4.9						
43	40	1.3	4.9	6.85	600				
	45	0.2	5.0						

Wind Speed and Direction	Cloud Cover
	100%

Macrophyte Sampling Information

Additional Comments or Remarks

Date	08-13-86
Lake	BROWNS LAKE
Time	12:15
County	RACINE CO.
Storet Number	5 2 3 1 2 0
Water Body Number	0 7 5 0 3 0 0
Lake Acreage	
Maximum Depth	44'
Station Location	
Air Temperature	30°C

Light Penetration Station	Secchi Disc Depth in Meters
	8.50 ft (2.6 M)

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	cond	Depth	D.O.	Temp.	pH	cond
	0	7.1	23.6	9.1	360					
	5	7.1	23.6							
	10	7.2	23.6							
	15	7.1	23.6							
	20	6.5	23.4							
	25	.3	21.7							
	30	.1	18.4							
MID >	35	.1	15.6	7.9	-430					
	40	.1	13.6							
	44	.1	12.6	7.6	-490					

Wind Speed and Direction	Cloud Cover
South (100) 13 mph	HIGH TWIN OVERCAST

Macrophyte Sampling Information

Additional Comments or Remarks

Thermocline taken at 33'

Date 7-10-86	
Lake BROWNS LAKE	Time 1145
County RACINE Co.	Lake Acreage 396
Storet Number 5 2 3 1 2 0	Maximum Depth 44 Ft.
Water Body Number 0 7 5 0 3 0 0	Air Temperature
Station Location Maximum depth	

Light Penetration Station	Secchi Disc Depth in Meters 2.2 m
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Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	
	0	9.6	24.5	9.38	372
	5	9.6	24.5		
	10	8.0	24.2		
	15	4.4	20.0		
	20	.8	19.1	8.68	410
	25	.4	17.0		
	30	.3	14.9		
	35	.3	12.7	5.18	425

Depth	D.O.	Temp.	pH

Wind Speed and Direction	Cloud Cover 90%
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Macrophyte Sampling Information

Additional Comments or Remarks

Date	4-21-86
Lake	BROWNS
Time	11:30
County	ROANE
Lake Acreage	396
Storet Number	523120
Maximum Depth	41 feet
Water Body Number	-----
Air Temperature	10°C

Station Location
Deepest spot in lake

Light Penetration Station	Secchi Disc Depth in Meters
	2.1

Lake Stratification: Sampling for D.O. (ppm) and Temperature (°C)

Unit ft./m	Depth	D.O.	Temp.	pH	Cond	Depth	D.O.	Temp.	pH
	0 ft	10.6	10.5	8.2	312				
	5	10.6	10.5						
	10	10.5	10.5						
	15	10.5	10.5						
	20	10.5	10.5						
	25	10.4	10.4						
	30	10.2	10.2						
	35	10.0	10.0						
	40	7.9	8.6	7.6	312				
	41	BOTTOM							

Wind Speed and Direction	Cloud Cover
20-25 mph	100%

Macrophyte Sampling Information

Additional Comments or Remarks
