

Zooplankton Data - Crystal Lake - Sheboygan Co. 1986

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

| Lake Name | Crystal Lake | Crystal Lake | Crystal Lake | Crystal Lake |
|----------------------------------|---|------------------|------------------|------------------|
| County Name | Sheboygan County | Sheboygan County | Sheboygan County | Sheboygan County |
| Water Body # | | | | |
| STORET # | | | | |
| Latitude | | | | |
| Longitude | | | | |
| Collector | | | | |
| Collection Date | 24-Apr-86 | 30-Jun-86 | 30-Jul-86 | 26-Aug-86 |
| Year | 86 | 86 | 86 | 86 |
| Month | 4 | 6 | 7 | 8 |
| Day | 24 | 30 | 30 | 26 |
| Identification By | Woolsey, Edward A. Woolsey, Edward A. Woolsey, Edward A. Woolsey, Edward A. | | | |
| Date of Identification | | | | |
| Tow Length Meters | 10.6 | 10.6 | 10.6 | 10.6 |
| Liter/(MG/L) Subsample | 0.466 | 0.466 | 0.466 | 0.466 |
| Size-Daphnia-Number | 30 | 30 | 28 | 30 |
| Size-Daphnia-Mean mm | 1.66 | 1.73 | 1.84 | 1.62 |
| Size-Daphnia-Standard deviation | 0.52 | 0.38 | 0.41 | 0.75 |
| Size-Copepods-Number | 31 | 31 | 30 | 28 |
| Size-Copepods-Mean | 1.07 | 1.24 | 1.2 | 1.31 |
| Size-Copepods-Standard deviation | 0.29 | 0.34 | 0.26 | 0.34 |
| Size-All Zooplankton-Number | 35 | 31 | 30 | 26 |
| Size-All Zooplankton-Mean | 1.17 | 1.37 | 1.5 | 1.14 |
| Size-All Zooplankton-SD | 0.43 | 0.43 | 0.38 | 0.38 |
| Acanthocyclops vernalis | 0 | 3 | 3 | 3 |
| Chydorus sphaericus | 3 | 2 | 2 | 3 |
| Daphnia galeata mendotae | 3 | 2 | 3 | 3 |
| Daphnia pulicria | 4 | 3 | 3 | 3 |
| Diacyclops thomasi | 4 | 0 | 0 | 0 |
| Diaphanosoma leuchtenbergianum | 0 | 0 | 0 | 2 |
| Mesocyclops edax | 2 | 3 | 2 | 2 |
| Skistodiaptomus oregonensis | 2 | 2 | 3 | 3 |
| Tropocyclops prasinus | 0 | 2 | 2 | 2 |
| Epischura lacustris | 0 | 0 | 2 | 2 |
| Chaoborus Sp. | 0 | 2 | 2 | 2 |
| Eubosmina coregoni | 0 | 0 | 2 | 0 |

Water Body No.:

Lake: Crystal
County: Sheboygan
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

| | 16 Feb | 12 Apr | 13 Jun | 18 Jul | 30 Aug |
|--------------------|--------|--------|--------|--------|--------|
| Tow length (m) | | | | | |
| Subsample volume | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Daphnia | | | | | |
| Number | 10 | 10 | 21 | 30 | 9 |
| Mean size (mm) | 1.19 | 1.38 | 1.13 | 1.09 | 1.28 |
| Standard deviation | 0.31 | 0.36 | 0.33 | 0.38 | 0.10 |
| Copepods | | | | | |
| Number | 39 | 55 | 61 | 54 | 69 |
| Mean size (mm) | 0.75 | 0.73 | 0.67 | 0.59 | 0.65 |
| Standard deviation | 0.42 | 0.48 | 0.40 | 0.40 | 0.40 |
| All zooplankton | | | | | |
| Number | 50 | 67 | 83 | 92 | 91 |
| Mean size (mm) | 0.83 | 0.81 | 0.78 | 0.74 | 0.70 |
| Standard deviation | 0.44 | 0.51 | 0.43 | 0.45 | 0.41 |

| | | 16 Feb | 12 Apr | 13 Jun | 18 Jul | 30 Aug |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| Epischura lacustris | EPILA | 0 | 0 | 0 | 2 | 1 |
| Skistodiaptomus oregonensis | SKIOR | 4 | 5 | 4 | 3 | 4 |
| Calanoid copepodids | CALCO | 0 | 0 | 5 | 3 | 4 |
| Calanoid nauplii | CALNA | 3 | 5 | 5 | 4 | 5 |
| Diacyclops bicuspidatus thomasi | DIATH | 5 | 5 | 3 | 2 | 2 |
| Mesocyclops edax | MESED | 0 | 3 | 4 | 4 | 4 |
| Orthocyclops modestus | ORTMO | 3 | 2 | 3 | 2 | 0 |
| Tropocyclops prasinus | TROP | 3 | 0 | 0 | 3 | 3 |
| Cyclopoid copepodids | CYCCO | 5 | 5 | 5 | 5 | 5 |
| Cyclopoid nauplii | CYCNA | 5 | 5 | 5 | 5 | 5 |
| Alona reticulata | ALORE | 0 | 0 | 1 | 0 | 0 |
| Bosmina longirostris | BOSLO | 3 | 1 | 1 | 0 | 3 |
| Ceriodaphnia quadrangula | CERQU | 0 | 0 | 0 | 0 | 3 |
| Chydorus sphaericus | CHYSP | 0 | 1 | 1 | 2 | 0 |
| Daphnia galeata mendotae | DAPGM | 0 | 1 | 4 | 4 | 3 |
| Daphnia pulicaria | DAPPUL | 5 | 5 | 5 | 5 | 5 |
| Diaphanosoma birgei | DIABI | 0 | 0 | 0 | 3 | 5 |
| Ostracoda | OSTSP | 0 | 0 | 0 | 3 | 3 |
| | | 0 | 0 | 0 | 1 | 0 |

Lake: Crystal Lake
County: Sheboygan
Date: June 1986

Cyanobacteria

- 2 *Anabaena circinalis*
- 2 *Aphanothece* sp.
- 1 *Chroococcus limneticus*
- 3 *Gomphosphaeria aponina*
- 4 *Microcystis* cf. *minutissima*

Diatoms

- 2 *Cyclotella comta*
- 1 *Fragilaria crotonensis*
- 1 *Melosira* sp.

Dinoflagellates

- 1 *Ceratium hirundinella*

Cryptomonads

- 2 *Chroomonas marssonii*
- 2 *Chroomonas minuta*
- 2 *Cryptomonas* cf. *ovata*

Green algae

- 1 *Cosmarium* sp.
- 2 *Oocystis* sp.
- 1 *Sphaerocystis schroeteri*

Chrysophytes

- 2 *Chrysocapsa* sp.

Euglenoids

- 1 *Euglena* sp.

Ratio: Eukaryotic Algae / Cyanobacteria

- by biomass - 15 / 85
- by cell density - 10 / 90

"Unit" Size Distribution (as percent)

- 1-10um: 15
- 11-20um: 20
- 21-30um: 5
- 31-40um: 5
- 41-50um: 15
- 51-60um:
- 61-70um:
- 71-80um:
- >80um: 40

Lake: Crystal Lake
County: Sheboygan
Date: July 1986

Cyanobacteria

2 Anabaena circinalis
2 Anabaena planctonica
3 Chroomonas limneticus
3 Microcystis cf. minutissima
2 Microcystis sp.

Diatoms

1 Cyclotella cf. comta
1 Melosira sp.

Dinoflagellates

1 Ceratium hirundinella
1 Peridinium sp.

Cryptomonads

1 Cryptomonas marssonii

Green algae

2 Oocystis sp.

Chrysophytes

1 Chrysocapsa sp.

Euglenoids

Ratio: Eukaryotic Algae / Cyanobacteria

by biomass - 10 / 90
by cell density - 10 / 90

"Unit" Size Distribution (as percent)

1-10um: 20
11-20um: 15
21-30um: 10
31-40um: 5
41-50um: 5
51-60um: 5
61-70um: 5
71-80um: 5
>80um: 30

Lake: Crystal Lake
County: Sheboygan
Date: August 1986

Cyanobacteria

- 1 Anabaena circinalis
- 2 Anabaena planctonica
- 3 Chroococcus limneticus
- 1 Lyngbya sp.
- 3 Microcystis cf. minutissima

Diatoms

- 2 Cyclotella sp.
- 1 Melosira sp.

Dinoflagellates

- 1 Ceratium hirundinella

Cryptomonads

Green algae

- 1 Crucigenia sp.

Chrysophytes

- 1 Dinobryon divergens

Euglenoids

Ratio: Eukaryotic Algae / Cyanobacteria

- by biomass - 5 / 95
- by cell density - 5 / 95

"Unit" Size Distribution (as percent)

- 1-10um: 10
- 11-20um: 15
- 21-30um: 5
- 31-40um: 10
- 41-50um: 5
- 51-60um: 5
- 61-70um: 5
- 71-80um: 5
- >80um: 40

Crystal L. Sheboygan Co. SED 24 Apr 86 Chlor₂ = 2 μ g/l⁻¹ 100ml REL

Note: not much present,

(x140, x 560)

Abundant (5):

none

Very common (4):

Fragilaria crotonensis 3 μ x 4 μ x 78 μ long

Cyclotella sp. 34 μ d. x 16 μ deep.

Occasional (3):

Cryptomonas ovata 12 μ x 14 μ x 20 μ

Melosira sp. @ 6 μ d. x 40 μ long

Chroocomonas acuta 6 μ x 9 μ

Rare:

Peridinium cinctum approx 60 μ d.

DNR BASELINE MONITORING

Lake Name Crystal Date 8/06/09 Time 11:39 AM
 Sample Location (e.g. deepest point in basin) Deep Spot @ 60 ft
 WBIC _____ % Cloud Cover 15% Sunny Very Nice!
 Observers Steinke Wind Speed 0-10 mph from NE Direction
Bunk

Field Measurements and Observations

Secchi Disk 4.75, 5.3 (m or ft) Custer Color Strip Reading C3, A3
 Algae Development - Not apparent _____ Site Depth 60 (m or ft)
 Slight (just visible) X
 Moderate (quite noticeable) _____ pH at 1 meter 8.76
 Heavy (very green) _____

Profiles

| Depth | | DO | Temp | Cond | pH | Depth | | DO | Temp | Cond | pH | Depth | | DO | Temp | Cond | pH |
|---------|---------|------|-------|------|------|---------|---------|------|------|------|------|---------|---------|------|------|------|----|
| ft or m | ft or m | mg/L | oC | µS | | ft or m | ft or m | mg/L | oC | µS | | ft or m | ft or m | mg/L | oC | µS | |
| 105.7 | 3 | 8.96 | 23.24 | 388 | 8.76 | 39 | 1.41 | 9.45 | 397 | 5.42 | 11.3 | | | | | | |
| 103.9 | 6 | 8.93 | 23.22 | 388 | 8.68 | 42 | 0.39 | 8.68 | 405 | 5.30 | 3.8 | | | | | | |
| 103.5 | 9 | 8.91 | 23.08 | 388 | 8.66 | 45 | 0.38 | 8.01 | 412 | 5.24 | 3.3 | | | | | | |
| 103.9 | 12 | 8.94 | 23.0 | 388 | 8.66 | 48 | 0.16 | 7.16 | 424 | 5.11 | 1.1 | | | | | | |
| 100.8 | 15 | 8.66 | 22.98 | 388 | 8.66 | 51 | 0.09 | 6.78 | 434 | 5.11 | 1.1 | | | | | | |
| 6 | 18 | 9.17 | 22.85 | 388 | 8.68 | 54 | 0.17 | 6.70 | 436 | 5.54 | 1.0 | | | | | | |
| 95.5 | 21 | 8.35 | 22.62 | 388 | 8.61 | 57 | | | | | | | | | | | |
| 64.1 | 24 | 5.66 | 21.54 | 393 | 8.16 | 60 | | | | | | | | | | | |
| 15.4 | 27 | 1.47 | 18.30 | 402 | 7.17 | | | | | | | | | | | | |
| 9.4 | 30 | 0.78 | 15.59 | 402 | 6.65 | | | | | | | | | | | | |
| 10.70 | 33 | 1.17 | 13.30 | 399 | 6.26 | | | | | | | | | | | | |
| 9.6 | 36 | 1.07 | 11.70 | 397 | 5.79 | | | | | | | | | | | | |

Meter Type and ID Number(s) HydroLab Surveyor 4a

Water Samples

Depth of Integrated Water Sample 0.6 m or ft SLH Field Number Crystal 1
 Amount filtered for chlorophyll _____ mLs

Comments / Observations

Air Temp 20.83 Spoke w/ Jody from
boat patrol
30ft DO 0.98 and 9.4%

Trend Ambient

Sheb Co.

DNR BASELINE MONITORING

Lake Name Crystal Lake Date 09/07/00 Time 12:55
 Sample Location (e.g., deepest point in basin) Deep Hole - 60 ft
 WBIC 0045200 % Cloud Cover/Precip 100
 Observers Bunk Masterson Wind Speed 15 mph from W Direction

Field Measurements and Observations

Secchi Disk 4.2 (m or ft) Custer Color Strip Reading 6
 Algae Development - Not apparent _____ Site depth 60 (m or ft)
 Slight (just visible) X
 Moderate (quite noticeable) _____ pH at 1 meter 7.94
 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 |
|---------------|---------|---------|---------|---------------|---------|---------|---------|---------------|---------|---------|---------|
| 1 | 8.20 | 21.94 | 343 | 30 | | | | 60 | | | |
| 3 | 8.20 | 21.91 | 343 | 33 | | | | | | | |
| 6 | 8.13 | 21.89 | 344 | 36 | | | | | | | |
| 9 | 8.09 | 21.88 | 344 | 39 | | | | | | | |
| 12 | 8.09 | 21.87 | 344 | 42 | | | | | | | |
| 15 | 8.08 | 21.84 | 344 | 45 | | | | | | | |
| 18 | 8.06 | 21.84 | 344 | 48 | | | | | | | |
| 21 | 8.02 | 21.84 | 344 | 51 | | | | | | | |
| 24 | | 20.85 | | 54 | | | | | | | |
| 27 | | | | 57 | | | | | | | |

Meter Type and ID Number(s) _____

Water Samples

Depth of Integrated Water Sample 21 m or ft SLH Field Number CRY1
 Amount filtered for chlorophyll 1000 mLs

Comments / Observations

DNR BASELINE MONITORING

Lake Name Crystal Date 7/25/01 Time 10:48
 Sample Location (e.g., deepest point in basin) Deep Spot @ 60ft
 WBIC 45200 % Cloud Cover/Precip 20.50 / Dry
 Observers Galarneau Wind Speed 15 mph from SW Direction
Bunk

Field Measurements and Observations

Secchi Disk 2.8 (m or ft) Custer Color Strip Reading 2
 Algae Development – Not apparent _____
 Slight (just visible) X Site depth 60 (m or ft)
 Moderate (quite noticeable) _____ pH at 1 meter 8.15
 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 |
|---------------------|------------|------------|------------|---------------------|------------|------------|------------|---------------------|------------|------------|------------|
| 1 | 12.44 | 10.18 | 347 | 30 | 11.96 | 9.40 | 347 | 60 | 0.46 | 5.84 | 370 |
| 3 | 12.42 | 10.18 | 346 | 33 | 11.81 | 9.27 | 346 | 61 | at Bottom | | |
| 6 | 12.36 | 10.13 | 346 | 36 | 11.57 | 8.95 | 347 | | | | |
| 9 | 12.34 | 10.13 | 347 | 39 | 11.15 | 7.55 | 347 | | | | |
| 12 | 12.33 | 10.10 | 346 | 42 | 10.60 | 6.94 | 347 | | | | |
| 15 | 12.31 | 10.09 | 347 | 45 | 10.07 | 6.68 | 349 | | | | |
| 18 | 12.18 | 9.59 | 347 | 48 | 9.12 | 6.55 | 350 | | | | |
| 21 | 12.10 | 9.77 | 346 | 51 | 7.33 | 6.39 | 353 | | | | |
| 24 | 12.05 | 9.47 | 346 | 54 | 6.26 | 6.30 | 355 | | | | |
| 27 | 12.05 | 9.42 | 345 | 57 | 2.33 | 6.01 | 363 | | | | |

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

Depth of Integrated Water Sample 1 m or ft SLH Field Number CRY1
CRY2
 Amount filtered for chlorophyll 800 mLs

Comments / Observations

2 samples @ 60ft

DNR BASELINE MONITORING

Lake Name Crystal Date 6/26/01 Time 10:37 AM

Sample Location (e.g., deepest point in basin) Deep Spot @ 60 ft

WBIC 0045200 % Cloud Cover/Precip 0% clear dry

Observers Gabe Powers Wind Speed 15 mph from W Direction
Heidi Runk

Field Measurements and Observations

Secchi Disk 5.6m (m or ft) Custer Color Strip Reading _____

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

Site depth 60 (m or ft)
pH at 1 meter 8.5

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 | 9.30 | 23.22 | 351 | 45 | 0.25 | 7.57 | 365 | | | | |
| 3 | 9.24 | 23.1 | 351 | 50 | 0.24 | 7.12 | 369 | | | | |
| 5 | 9.32 | 22.84 | 352 | 55 | 0.20 | 6.93 | 370 | | | | |
| 10 | 9.24 | 22.5 | 349 | 60 | 0.19 | 6.87 | 372 | | | | |
| 15 | 9.40 | 21.21 | 349 | 65 | 0.17 | 6.80 | 372 | | | | |
| 20 | 9.86 | 17.29 | 351 | | | | | | | | |
| 25 | 9.48 | 15.26 | 358 | | | | | | | | |
| 30 | 8.64 | 12.36 | 366 | | | | | | | | |
| 35 | 0.90 | 10.3 | 366 | | | | | | | | |
| 40 | 0.38 | 8.84 | 363 | | | | | | | | |

Meter Type and ID Number(s) HydroLab Surveyor 3

Water Samples

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

Amount filtered for chlorophyll 1500 mLs Cry 2 @ 55 ft

Comments / Observations

DNR BASELINE MONITORING

Lake Name Crystal Date 7/31/01 Time 1:00 PM
Sample Location (e.g., deepest point in basin) Deep Spot @ 60 ft
WBIC 45200 % Cloud Cover/Precip 30% Dry
Observers Bunk Wind Speed 20 mph from SW Direction
Volz

Field Measurements and Observations

Secchi Disk 13.2 (m or ft) Custer Color Strip Reading 2
Algae Development – Not apparent _____
Slight (just visible) Site depth 58 (m or ft)
Moderate (quite noticeable) _____ pH at 1 meter 7.59
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 |
|---------------------|------------|------------|------------|---------------------|------------|------------|------------|---------------------|------------|------------|------------|
| 1 | 9.35 | 26.13 | 343 | 30 | 0.53 | 14.01 | 371 | | | | |
| 3 | 9.39 | 26.79 | 342 | 33 | 0.43 | 12.32 | 375 | | | | |
| 6 | 9.40 | 25.57 | 343 | 36 | 0.34 | 11.08 | 369 | | | | |
| 9 | 9.47 | 25.37 | 342 | 39 | 0.17 | 9.71 | 365 | | | | |
| 12 | 9.45 | 25.30 | 342 | 42 | 0.15 | 8.54 | 366 | | | | |
| 15 | 9.55 | 26.22 | 342 | 45 | 0.14 | 7.75 | 370 | | | | |
| 18 | 9.48 | 25.02 | 342 | 48 | 0.13 | 7.40 | 375 | | | | |
| 21 | 11.41 | 23.15 | 344 | 51 | 0.13 | 7.13 | 370 | | | | |
| 24 | 9.40 | 18.69 | 357 | 54 | 0.13 | 7.08 | 379 | | | | |
| 27 | 3.62 | 16.17 | 369 | 57 | 0.12 | 7.02 | 381 | | | | |

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

Depth of Integrated Water Sample 0-6 m or ft SLH Field Number CRY1
Amount filtered for chlorophyll 1000 mLs
2 stored @ 42

Comments / Observations

Station: 603120

DNR BASELINE MONITORING

Lake Name Crystal Date 10 / 4 / 01 Time 11:44 AM

Sample Location (e.g., deepest point in basin) Loop spot @ 60 ft

WBIC 45200 % Cloud Cover/Precip 100% / Dry

Observers Runk Wind Speed 10 mph from South Direction
Franson

Field Measurements and Observations

Secchi Disk 3.2 (m or ft) Custer Color Strip Reading 2

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

Site depth 60 (m or ft)
pH at 1 meter 8.4

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 | 9.18 | 16.8 | 335 | 30 | 6.13 | 16.33 | 339 | 60 | | | |
| 3 | 9.09 | 16.82 | 334 | 33 | 5.38 | 16.05 | 342 | | | | |
| 6 | 9.04 | 16.81 | 334 | 36 | 0.35 | 14.06 | 367 | | | | |
| 9 | 9.02 | 16.82 | 335 | 39 | 0.23 | 11.21 | 377 | | | | |
| 12 | 9.03 | 16.82 | 335 | 42 | 0.16 | 9.44 | 384 | | | | |
| 15 | 8.97 | 16.79 | 335 | 45 | 0.11 | 8.29 | 385 | | | | |
| 18 | 8.94 | 16.78 | 334 | 48 | 0.1 | 7.71 | 395 | | | | |
| 21 | 8.91 | 16.76 | 335 | 51 | 0.09 | 7.43 | 400 | | | | |
| 24 | 8.86 | 16.72 | 334 | 54 | 0.07 | 7.31 | 404 | | | | |
| 27 | 8.65 | 16.69 | 335 | 57 | 0.04 | 7.16 | 416 | | | | |

Meter Type and ID Number(s) Hydrolab Sweeney 3

Water Samples

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

Amount filtered for chlorophyll 1000 mLs

CRY 2 = 55 ft
Van Dorn

Comments / Observations

pH at 54 ft = 7.08

DNR BASELINE MONITORING

Lake Name Crystal Date 8/13/02 Time 2:09

Sample Location (e.g., deepest point in basin) Deep Spot @ 57 ft

WBIC _____ % Cloud Cover/Precip 70%^W, Partly Sunny, Dew

Observers Heidi Bunk Wind Speed 10 mph from NW Direction
Kathi Kramasz

Field Measurements and Observations

Secchi Disk 5.6 (m or ft) Custer Color Strip Reading _____

Algae Development – Not apparent _____ Site depth _____ (m or ft)
 Slight (just visible) _____
 Moderate (quite noticeable) X pH at 1 meter 8.6
 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 |
|---------------------|------------|------------|------------|---------------------|------------|------------|------------|---------------------|------------|------------|------------|
| 1 | 8.88 | 25.78 | 337 | 45 | 115 | 8.74 | 379 | | | | |
| 3 | 8.87 | 25.74 | 337 | 50 | 112 | 7.41 | 400 | | | | |
| 5 | 8.88 | 25.68 | 336 | 55 | 110 | 6.99 | 402 | | | | |
| 10 | 8.91 | 25.61 | 338 | | | | | | | | |
| 15 | 8.81 | 25.48 | 338 | | | | | | | | |
| 20 | 9.30 | 24.80 | 341 | | | | | | | | |
| 25 | 8.35 | 18.76 | 357 | | | | | | | | |
| 30 | 2.5 | 14.86 | 370 | | | | | | | | |
| 35 | 0.3 | 12.68 | 371 | | | | | | | | |
| 40 | 0.16 | 10.74 | 370 | | | | | | | | |

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

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

Amount filtered for chlorophyll 1000 mLs

Comments / Observations

DNR BASELINE MONITORING

Lake Name Crystal Lake Date 8/12/03 Time 2:44pm
 Sample Location (e.g., deepest point in basin) deepest point in basin
 WBIC _____ % Cloud Cover/Precip 75% dry
 Observers Heidi Bunc Wind Speed 5-10 mph from NW Direction
Erica King

Field Measurements and Observations

Secchi Disk 4.5 (m or ft) Custer Color Strip Reading 2
 Algae Development – Not apparent _____ Site depth 60 (m or ft)
 Slight (just visible) X
 Moderate (quite noticeable) _____ pH at 1 meter 7.72
 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 |
|---------------------|------------|------------|------------|---------------------|------------|------------|------------|---------------------|------------|------------|------------|
| 1ft | 9.28 | 24.1 | 344 | 30ft | .24 | 16.01 | 381 | | | | |
| 3ft | 9.23 | 24.07 | 345 | 33ft | .24 | 13.65 | 379 | | | | |
| 6ft | 9.21 | 24.01 | 345 | 36ft | .08 | 12.10 | 375 | | | | |
| 9ft | 9.17 | 23.94 | 345 | 39ft | .06 | 10.58 | 376 | | | | |
| 12ft | 9.18 | 23.83 | 344 | 42ft | .06 | 9.12 | 376 | | | | |
| 15ft | 9.23 | 23.70 | 345 | 45ft | .06 | 8.02 | 377 | | | | |
| 18ft | 8.99 | 23.52 | 346 | 48ft | .04 | 7.18 | 379 | | | | |
| 21ft | 4.19 | 23.06 | 359 | 51ft | .04 | 6.93 | 381 | | | | |
| 24ft | 0.44 | 21.57 | 376 | 54ft | .04 | 6.57 | 387 | | | | |
| 27ft | 0.32 | 17.75 | 385 | 57ft | .04 | 6.47 | 390 | | | | |

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

Depth of Integrated Water Sample 0-6 m or ft SLH Field Number Cry 1
 Amount filtered for chlorophyll _____ mLs

Comments / Observations

N 43° 48.397 7 satellites

Fluorometer: 979

DNR BASELINE MONITORING

Lake Name Crystal Date 8/11/04 Time 1:18 PM
Sample Location (e.g., deepest point in basin) Deep Spot @ 61 ft
WBIC % Cloud Cover/Precip 60% / Clearing, Pt Sun
Observers Warwick Wind Speed 10 mph from W Direction
Bunk

Field Measurements and Observations

Secchi Disk 5.1 (m) or ft Custer Color Strip Reading 2
Algae Development - Not apparent Site depth 61 (m or ft)
Slight (just visible)
Moderate (quite noticeable) X
Heavy (very green)
pH at 1 meter 8.44
5744 7.33

Profiles

Table with 12 columns: Depth (ft or m), DO (mg/L), Temp (°C), Cond (µS) for depths 3, 6, 9, 12, 15, 18, 21, 24, 27, 30. Values include DO ranging from 0.40 to 1.24 and Temp from 12.37 to 16.45.

Meter Type and ID Number(s) Hydrolab Surveyor 3

Water Samples

Depth of Integrated Water Sample 0-6 m or ft SLH Field Number Cry 1
Amount filtered for chlorophyll mLs

Comments / Observations

N43° 48.416'

DNR BASELINE MONITORING

Lake Name Crystal Date 8/05/08 Time 1:20PM

Sample Location (e.g. deepest point in basin) Deep Spot @ 63 ft

WBIC _____ % Cloud Cover 30% Sunny

Observers McManama Wind Speed 5-10 mph from NW Direction
Bink

Field Measurements and Observations

Secchi Disk 5.0-4.8 (m or ft) Custer Color Strip Reading A1 A3

Algae Development - Not apparent _____ Site Depth 63 ft (m or ft)
Slight (just visible) _____
Moderate (quite noticeable) X _____ pH at 1 meter 8.56
Heavy (very green) _____

Profiles

129.6
130.0
129.3
134.1
131.6
124.3
56.1
5.8
3.1
4.0
3.9
2.0

| Depth (ft or m) | DO mg/L | Temp °C | Cond µS | pH | Depth (ft or m) | DO mg/L | Temp °C | Cond µS | pH | Depth (ft or m) | DO mg/L | Temp °C | Cond µS | pH |
|-----------------|---------|---------|---------|------|-----------------|---------|---------|---------|------|-----------------|---------|---------|---------|----|
| 3 | 10.83 | 25.95 | 382 | 8.56 | 39 | 0.11 | 9.68 | 408 | 7.39 | 1.0 | | | | |
| 6 | 10.63 | 25.91 | 383 | 8.57 | 42 | 0.07 | 8.69 | 412 | 7.38 | 0.6 | | | | |
| 9 | 10.56 | 25.74 | 381 | 8.58 | 46 | 0.08 | 7.81 | 414 | 7.37 | 0.7 | | | | |
| 12 | 10.91 | 25.68 | 383 | 8.57 | 48 | 0.11 | 7.30 | 417 | 7.33 | 1.1 | | | | |
| 15 | 10.71 | 25.59 | 383 | 8.56 | 51 | 0.06 | 7.12 | 423 | 7.31 | 0.5 | | | | |
| 18 | 10.15 | 25.51 | 383 | 8.54 | 54 | 0.05 | 6.85 | 425 | 7.24 | 0.4 | | | | |
| 21 | 7.67 | 23.41 | 402 | 7.98 | 57 | 0.02 | 6.80 | 430 | 7.21 | 0.1 | | | | |
| 24 | 0.52 | 20.66 | 415 | 7.57 | 60 | 0.06 | 6.76 | 431 | 7.20 | 0.5 | | | | |
| 27 | 0.31 | 17.76 | 417 | 7.50 | 63 | | | | | | | | | |
| 30 | 0.40 | 15.28 | 414 | 7.47 | | | | | | | | | | |
| 33 | 0.39 | 13.05 | 410 | 7.42 | | | | | | | | | | |
| 36 | 0.20 | 11.25 | 409 | 7.41 | | | | | | | | | | |

Meter Type and ID Number(s) Hydrolab Surveyor 4 a

Water Samples

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

Amount filtered for chlorophyll _____ mLs

Comments / Observations

N 43.80650°
W 088.01437°
± 11.4 ft
Elevation 282.2

Ambient

Shelb Co.

DNR BASELINE MONITORING

Lake Name Crystal Date 3/15/01 Time 12:04 PM
 Sample Location (e.g., deepest point in basin) 52.2 ft
 WBIC 0045200 % Cloud Cover/Precip 85% clouds, dry
 Observers Toshner Wind Speed 25 mph from NE Direction
Bunk

Field Measurements and Observations

Secchi Disk 4.1 (m or ft) Custer Color Strip Reading _____
 Algae Development – Not apparent X Site depth 52.2 (m or ft)
 Slight (just visible) _____
 Moderate (quite noticeable) _____ pH at 1 meter _____
 Heavy (very green) _____
ice depth = 0.7m

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 | 13.62 | 0.92 | 316 | 50 | 0.42 | 4.44 | 392 | | | | |
| 5 | 9.90 | 3.79 | 366 | | | | | | | | |
| 10 | 9.67 | 3.87 | 367 | | | | | | | | |
| 15 | 9.48 | 3.86 | 367 | | | | | | | | |
| 20 | 9.23 | 3.87 | 367 | | | | | | | | |
| 25 | 8.61 | 3.82 | 368 | | | | | | | | |
| 30 | 4.62 | 4.23 | 374 | | | | | | | | |
| 35 | 2.27 | 4.28 | 377 | | | | | | | | |
| 40 | 1.37 | 4.31 | 381 | | | | | | | | |
| 45 | 1.30 | 4.41 | 382 | | | | | | | | |

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

Water Samples

Depth of Integrated Water Sample _____ m or ft SLH Field Number CRY1
CRY2
 Amount filtered for chlorophyll 1000 mLs

Comments / Observations

CRY-1 = 1' surface sample TP

Crystal Lake
7-2-98

| Temp | pH | SpCond | TDS | DO | Depth |
|-------|------|--------|-------|-------|-------|
| 25.52 | 8.48 | 332 | 0.212 | 8.46 | 1 |
| 25.5 | 8.51 | 332 | 0.212 | 8.49 | 5 |
| 25.37 | 8.53 | 332 | 0.213 | 8.52 | 10 |
| 23.98 | 8.6 | 330 | 0.211 | 10.78 | 15 |
| 17.74 | 8.47 | 338 | 0.216 | 8.71 | 20 |
| 13.49 | 7.73 | 353 | 0.226 | 1.51 | 25 |
| 11.25 | 7.6 | 356 | 0.228 | 0.27 | 30 |
| 9.56 | 7.54 | 356 | 0.228 | 0.2 | 35 |
| 8.18 | 7.49 | 360 | 0.23 | 0.18 | 40 |
| 6.93 | 7.31 | 368 | 0.236 | 0.14 | 45 |
| 6.38 | 7.24 | 375 | 0.24 | 0.13 | 50 |
| 6.15 | 7.18 | 378 | 0.242 | 0.12 | 55 |
| 6.05 | 7.14 | 384 | 0.246 | 0.11 | 60 |

Secch Depth 2.17m

| | |
|------------------------|------------------------|
| | Date <i>3/31/98</i> |
| Lake <i>CRYSTAL</i> | Time <i>12:00</i> |
| County | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |
| Station Location | |
| | |
| | |

| | |
|---------------------------|---|
| Light Penetration Station | Secchi Disc Depth in Meters <i>3.0 m</i> |
|---------------------------|---|

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 | COND TDS | |
|---------------|-----------|-------------|-------------|------------|------------|-------------|-------------|-----------|------------|------------|------------|------------|
| | | <i>0</i> | <i>11.1</i> | <i>6.8</i> | <i>8.4</i> | <i>336</i> | <i>.215</i> | <i>50</i> | <i>3.1</i> | <i>4.6</i> | <i>7.8</i> | <i>359</i> |
| | <i>5</i> | <i>11.0</i> | <i>6.8</i> | <i>8.4</i> | <i>337</i> | <i>.216</i> | <i>55</i> | | | | | |
| | <i>10</i> | <i>11.0</i> | <i>6.8</i> | <i>8.3</i> | <i>336</i> | <i>.215</i> | | | | | | |
| | <i>15</i> | <i>11.0</i> | <i>6.8</i> | <i>8.3</i> | <i>337</i> | <i>.216</i> | | | | | | |
| | <i>20</i> | <i>11.0</i> | <i>6.8</i> | <i>8.3</i> | <i>337</i> | <i>.216</i> | | | | | | |
| | <i>25</i> | <i>11.0</i> | <i>6.8</i> | <i>8.3</i> | <i>337</i> | <i>.216</i> | | | | | | |
| | <i>30</i> | <i>9.5</i> | <i>5.9</i> | <i>8.1</i> | <i>343</i> | <i>.219</i> | | | | | | |
| | <i>35</i> | <i>8.6</i> | <i>5.5</i> | <i>8.1</i> | <i>345</i> | <i>.221</i> | | | | | | |
| | <i>40</i> | <i>6.6</i> | <i>5.0</i> | <i>7.9</i> | <i>350</i> | <i>.224</i> | | | | | | |
| | <i>45</i> | <i>5.3</i> | <i>4.8</i> | <i>7.9</i> | <i>353</i> | <i>.226</i> | | | | | | |

| | |
|--|----------------------------|
| Wind Speed and Direction <i>NW 5-15</i> | Cloud Cover <i>100%</i> |
|--|----------------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

Crystal Lake
3/31/08

| TEMP. | pH | SpCond | TDS | DO | Depth |
|-------|------|--------|-------|-------|-------|
| 6.79 | 8.36 | 336 | 0.215 | 11.08 | 1 |
| 6.8 | 8.36 | 337 | 0.216 | 11.03 | 5 |
| 6.79 | 8.35 | 336 | 0.215 | 11.02 | 10 |
| 6.79 | 8.34 | 337 | 0.216 | 11.03 | 15 |
| 6.78 | 8.31 | 337 | 0.216 | 10.98 | 20 |
| 6.78 | 8.29 | 337 | 0.216 | 11 | 25 |
| 5.93 | 8.14 | 343 | 0.219 | 9.51 | 30 |
| 5.5 | 8.09 | 345 | 0.221 | 8.59 | 35 |
| 4.97 | 7.94 | 350 | 0.224 | 6.62 | 40 |
| 4.78 | 7.86 | 353 | 0.226 | 5.33 | 45 |
| 4.56 | 7.76 | 359 | 0.23 | 3.11 | 50 |

SECCHI DEPTH = 3.0 M

| | | |
|-------------------|-----------------|---------|
| Date | | 7-25-97 |
| Lake | | CRYSTAL |
| Time | | 11:15 |
| County | Lake Acreage | |
| Storet Number | Maximum Depth | |
| Water Body Number | Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 5.4m |

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 | Cond | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 8.5 | 25.2 | 8.4 | 365 | .234 | 50 | 0.1 | 7.2 | 7.3 | 400 | .256 |
| | 5 | 8.6 | 25.1 | 8.4 | 366 | .234 | 55 | 0.1 | 7.0 | 7.3 | 404 | .258 |
| | 10 | 8.5 | 24.9 | 8.4 | 365 | .234 | 60 | 0.1 | 6.7 | 7.2 | 408 | .261 |
| | 15 | 8.4 | 24.2 | 8.4 | 366 | .234 | | | | | | |
| * | 20 | 7.1 | 21.4 | 8.2 | 378 | .242 | | | | | | |
| | 25 | 5.2 | 16.8 | 7.9 | 387 | .248 | | | | | | |
| | 30 | 0.3 | 14.1 | 7.5 | 394 | .252 | | | | | | |
| | 35 | 0.2 | 12.4 | 7.5 | 396 | .254 | | | | | | |
| | 40 | 0.1 | 10.3 | 7.5 | 390 | .250 | | | | | | |
| | 45 | 0.1 | 8.3 | 7.4 | 393 | .251 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 10% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|---------|
| Date | 6/19/97 |
| Lake | CRYSTAL |
| Time | 1200 |
| County | |
| Storet Number | |
| Water Body Number | |
| Station Location | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 9.2 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 | Cond | TDS |
|------------|-------|------|-------|-----|------|-----|-------|------|-------|-----|------|-----|
| | 0 | 9.4 | 20.9 | 8.4 | 369 | 236 | 50 | 0 | 6.7 | 7.2 | 390 | 250 |
| | 5 | | | | | | 55 | 0 | 6.2 | 7.2 | 395 | 253 |
| | 10 | | | | | | 60 | 0 | 6.1 | 7.1 | 400 | 255 |
| | 15 | 9.4 | 20.3 | 8.4 | 368 | 236 | | | | | | |
| * | 20 | 11.6 | 15.2 | 8.5 | 370 | 237 | | | | | | |
| | 25 | 8.4 | 13.5 | 8.1 | 378 | 241 | | | | | | |
| | 30 | 4.8 | 12.3 | 7.7 | 382 | 244 | | | | | | |
| | 35 | 2.1 | 11.1 | 7.4 | 384 | 246 | | | | | | |
| | 40 | 1.5 | 9.6 | 7.4 | 385 | 246 | | | | | | |
| | 45 | | | | | | | | | | | |

| | | | |
|--------------------------|--------|-------------|------|
| Wind Speed and Direction | 0-5 SW | Cloud Cover | 100% |
|--------------------------|--------|-------------|------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | | | |
|-------------------|---------|-----------------|-------|
| Date | | 5/1/97 | |
| Lake | CRISTAL | Time | 11:15 |
| County | | Lake Acreage | |
| Storet Number | _____ | Maximum Depth | |
| Water Body Number | _____ | Air Temperature | |
| Station Location | | | |
| _____ | | | |
| _____ | | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 3.8m |

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 | COND | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 11.9 | 9.0 | 8.4 | 376 | .237 | 50 | 10.9 | 5.6 | 8.1 | 373 | .238 |
| | 5 | 12.1 | 9.0 | 8.4 | 370 | .237 | 55 | 10.7 | 5.6 | 8.0 | 373 | .239 |
| | 10 | 12.0 | 9.0 | 8.4 | 370 | .237 | 60 | 8.5 | 5.6 | 7.8 | 378 | .242 |
| | 15 | 12.0 | 8.9 | 8.4 | 370 | .237 | | | | | | |
| | 20 | 12.0 | 8.8 | 8.4 | 370 | .237 | | | | | | |
| | 25 | 12.3 | 8.2 | 8.4 | 370 | .237 | | | | | | |
| | 30 | 12.9 | 7.6 | 8.4 | 371 | .237 | | | | | | |
| | 35 | 12.6 | 6.54 | 8.3 | 371 | .237 | | | | | | |
| | 40 | 12.0 | 6.1 | 8.2 | 372 | .238 | | | | | | |
| | 45 | 11.4 | 5.8 | 8.1 | 372 | .238 | | | | | | |

| | | | |
|--------------------------|-------------|-------------|-----|
| Wind Speed and Direction | N 10-30 mph | Cloud Cover | 10% |
|--------------------------|-------------|-------------|-----|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 3/3/97 |
| Lake | CRYSTAL LK |
| Time | 13:50 |
| County | |
| Storet Number | |
| Water Body Number | |
| Station Location | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 10.5 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 | COND | TDS |
|------------|-------|------|-------|-----|---------|---------|-------|------|-------|-----|---------|---------|
| | 0 | 12.6 | 0.8 | 7.6 | No DATA | No DATA | 50 | 0.5 | 3.5 | 7.1 | No DATA | No DATA |
| | 5 | 12.0 | 2.6 | 7.7 | | | 55 | 0.5 | 3.6 | 7.0 | | |
| | 10 | 11.1 | 2.8 | 7.7 | | | | | | | | |
| | 15 | 10.3 | 2.8 | 7.6 | | | | | | | | |
| | 20 | 8.6 | 3.0 | 7.5 | | | | | | | | |
| | 25 | 5.9 | 3.2 | 7.4 | | | | | | | | |
| | * 30 | 4.2 | 3.3 | 7.2 | | | | | | | | |
| | 35 | 2.8 | 3.4 | 7.2 | | | | | | | | |
| | 40 | 1.5 | 3.5 | 7.1 | | | | | | | | |
| | 45 | 0.9 | 3.5 | 7.1 | | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
|--------------------------|-------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | | |
|-------------------|------------|-----------------|
| Date | | 8-26-96 |
| Lake | CRYSTAL LK | Time 1515 |
| County | | Lake Acreage |
| Storet Number | | Maximum Depth |
| Water Body Number | | Air Temperature |
| Station Location | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 4.6m / 15.0 FT |

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 | 9.3 | 24.0 | 8.4 | 354 | .226 | 50 | 0.3 | 6.4 | 7.0 | 451 | .290 |
| | 5 | 8.5 | 24.0 | 8.4 | 354 | .226 | 55 | 0.2 | 6.3 | 6.9 | 462 | .296 |
| | 10 | 8.6 | 24.0 | 8.4 | 354 | .226 | 60 | | | | | |
| | 15 | 8.6 | 24.0 | 8.4 | 354 | .227 | | | | | | |
| * | 20 | 8.5 | 19.5 | 8.1 | 380 | .243 | | | | | | |
| | 25 | 2.8 | 14.4 | 7.5 | 399 | .255 | | | | | | |
| | 30 | 1.2 | 11.5 | 7.4 | 401 | .256 | | | | | | |
| | 35 | 0.5 | 9.2 | 7.3 | 399 | .255 | | | | | | |
| | 40 | 0.4 | 7.7 | 7.2 | 414 | .265 | | | | | | |
| | 45 | 0.3 | 6.8 | 7.1 | 437 | .279 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
|--------------------------|-------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | | |
|-------------------|-----------------|---------|
| Date | | 7-24-96 |
| Lake | Time | 09:40 |
| County | Lake Acreage | |
| Storet Number | Maximum Depth | |
| Water Body Number | Air Temperature | |
| Station Location | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 2.9m |

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 | Cond | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 9.0 | 23.3 | 8.1 | 366 | .234 | 50 | 0.1 | 6.6 | 7.0 | 434 | .278 |
| | 5 | 8.9 | 23.3 | 8.1 | 366 | .234 | 55 | 0.1 | 6.3 | 6.9 | 440 | .282 |
| | 10 | 8.9 | 23.2 | 8.1 | 365 | .234 | | | | | | |
| | 15 | 8.9 | 23.1 | 8.1 | 365 | .234 | | | | | | |
| | 20 | 9.9 | 21.8 | 8.1 | 370 | .237 | | | | | | |
| * | 25 | 9.5 | 14.6 | 8.0 | 383 | .244 | | | | | | |
| | 30 | 3.4 | 12.2 | 7.6 | 397 | .254 | | | | | | |
| | 35 | 0.5 | 10.5 | 7.4 | 395 | .253 | | | | | | |
| | 40 | 0.2 | 8.8 | 7.3 | 396 | .254 | | | | | | |
| | 45 | 0.1 | 7.3 | 7.1 | 416 | .266 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| NW - 10-20 mph | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|-----------|
| Date | x 6-27-96 |
| Lake | x CRYSTAL |
| Time | x 9:10 |
| County | |
| Storet Number | |
| Water Body Number | |
| Station Location | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | x 4.1m |

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 | |
|-------------|-------|-------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | | | | | TDS | | | | | | TDS | |
| | SURF | 9.81 | 21.12 | 8.2 | 321 | .206 | 50 | 0.06 | 6.31 | 7.1 | 376 | .241 |
| | 5' | 9.36 | 21.09 | 8.2 | 321 | .206 | 55 | 0.05 | 6.05 | 6.9 | 381 | .244 |
| | 10' | 9.11 | 21.05 | 8.2 | 321 | .206 | 60 | 0.05 | 5.94 | 6.9 | 386 | .247 |
| | 15' | 9.47 | 20.42 | 8.2 | 320 | .205 | | | | | | |
| | 20' | 10.32 | 16.15 | 8.2 | 323 | .210 | | | | | | |
| | 25' | 7.78 | 13.20 | 7.9 | 334 | .213 | | | | | | |
| | 30' | 2.46 | 11.07 | 7.5 | 341 | .219 | | | | | | |
| | 35' | 0.62 | 9.90 | 7.3 | 341 | .218 | | | | | | |
| | 40' | 0.15 | 8.71 | 7.2 | 341 | .219 | | | | | | |
| | 45' | 0.09 | 7.40 | 7.2 | 354 | .227 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| x SW 0-5 mph | x 60% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | | | |
|-------------------|------------|-----------------|------|
| Date | | 5-7-96 | |
| Lake | CRYSTAL LK | Time | 1400 |
| County | | Lake Acreage | |
| Storet Number | _____ | Maximum Depth | |
| Water Body Number | _____ | Air Temperature | |
| Station Location | | | |
| _____ | | | |
| _____ | | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 9.5 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 | COND | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 1 | 11.0 | 10.0 | 7.9 | 326 | .209 | 50 | 0.2 | 5.1 | 7.3 | 375 | .240 |
| | 5 | 11.0 | 9.9 | 7.9 | 326 | .209 | | | | | | |
| | 10 | 11.0 | 9.6 | 7.9 | 325 | .208 | | | | | | |
| | 15 | 11.0 | 9.3 | 8.0 | 326 | .208 | | | | | | |
| | 20 | 10.9 | 9.2 | 8.0 | 325 | .208 | | | | | | |
| | 25 | 10.8 | 8.9 | 7.9 | 325 | .208 | | | | | | |
| | 30 | 10.1 | 8.5 | 7.9 | 326 | .209 | | | | | | |
| | 35 | 10.1 | 8.4 | 7.9 | 326 | .209 | | | | | | |
| | 40 | 9.8 | 8.1 | 7.8 | 327 | .209 | | | | | | |
| | 45 | 1.4 | 6.3 | 7.4 | 357 | .229 | | | | | | |

| | | | |
|--------------------------|------------|-------------|-----|
| Wind Speed and Direction | SE 0-5 MPH | Cloud Cover | 10% |
|--------------------------|------------|-------------|-----|

Macrophyte Sampling Information

Additional Comments or Remarks

Crystal Lake, Sheboygan Co.
Sample Date: 2/20/96

| | Temp. | pH | SpCond | TDS | DO | Depth |
|--------|-------|------|--------|-------|------|-------|
| 113618 | 1.23 | 7.72 | 0.353 | 0.226 | 9.85 | 1 |
| 113740 | 2.67 | 7.73 | 0.345 | 0.221 | 9.39 | 5 |
| 114228 | 3.47 | 7.74 | 0.344 | 0.22 | 8.71 | 10 |
| 114546 | 3.71 | 7.73 | 0.343 | 0.219 | 8.08 | 15 |
| 115038 | 3.94 | 7.59 | 0.346 | 0.221 | 5.08 | 20 |
| 115328 | 4.07 | 7.53 | 0.35 | 0.224 | 4.02 | 25 * |
| 115751 | 4.17 | 7.42 | 0.357 | 0.229 | 1.74 | 30 |
| 115942 | 4.14 | 7.4 | 0.358 | 0.229 | 1.05 | 35 |
| 120147 | 4.14 | 7.4 | 0.361 | 0.231 | 0.92 | 40 |
| 120338 | 4.16 | 7.38 | 0.364 | 0.233 | 0.33 | 45 |
| 120448 | 4.17 | 7.37 | 0.368 | 0.236 | 0.23 | 50 |
| 120723 | 4.23 | 7.35 | 0.373 | 0.239 | 0.16 | 55 |
| 120906 | 4.26 | 7.33 | 0.374 | 0.239 | 0.08 | 60 |

SECCHI = 11.0m

| | |
|-------------------|--------------|
| Date | 8/23/95 |
| Lake | Crystal Lake |
| Time | 1445 |
| County | Sheboygan |
| Lake Acreage | |
| Storet Number | |
| Maximum Depth | |
| Water Body Number | |
| Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 7.6 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 | COND | TDS |
|---------------|-------|------|-------|------|------|------|-------|------|-------|-----|------|------|
| | | 0 | 8.3 | 25.9 | 7.8 | 327 | .209 | 50 | 0.0 | 7.6 | 7.0 | 365 |
| | 5 | 8.3 | 25.9 | 7.2 | 327 | .209 | 55 | 0.0 | 7.4 | 6.9 | 371 | .238 |
| | 10 | 8.3 | 25.8 | 7.3 | 327 | .209 | 60 | 0.0 | 7.3 | 6.9 | 384 | .246 |
| | 15 | 8.3 | 25.8 | 7.6 | 327 | .209 | | | | | | |
| | 20 | 8.2 | 25.7 | 7.5 | 327 | .209 | | | | | | |
| | * 25 | 2.9 | 19.1 | 7.6 | 353 | .226 | | | | | | |
| | 30 | 1.9 | 15.6 | 7.5 | 361 | .230 | | | | | | |
| | 35 | 0.77 | 11.8 | 7.4 | 353 | .226 | | | | | | |
| | 40 | 0.06 | 9.1 | 7.3 | 349 | .223 | | | | | | |
| | 45 | 0.0 | 8.1 | 7.2 | 356 | .228 | | | | | | |

| | | | |
|--------------------------|----------|-------------|----|
| Wind Speed and Direction | SW 10-18 | Cloud Cover | 0% |
|--------------------------|----------|-------------|----|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 7-19-95 |
| Lake | CRYSTAL LK |
| Time | 13:10 |
| County | SHER. CO |
| Storet Number | _____ |
| Water Body Number | _____ |
| Lake Acreage | _____ |
| Maximum Depth | _____ |
| Air Temperature | _____ |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| _____ | _____ |

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 | Cond | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 8.6 | 25.3 | 9.0 | 333 | .212 | 50 | 0.0 | 7.5 | 7.1 | 360 | .230 |
| | 5 | 8.6 | 25.3 | 7.6 | 332 | .212 | 55 | 0.0 | 7.3 | 7.0 | 365 | .234 |
| | 10 | 8.5 | 25.2 | 7.8 | 332 | .213 | 60 | 0.0 | 7.1 | 6.9 | 370 | .236 |
| | 15 | 8.4 | 24.7 | 7.9 | 333 | .213 | | | | | | |
| | 20 | 8.2 | 21.8 | 7.8 | 338 | .216 | | | | | | |
| * | 25 | 4.1 | 16.7 | 7.5 | 348 | .223 | | | | | | |
| | 30 | 1.7 | 13.5 | 7.4 | 354 | .227 | | | | | | |
| | 35 | 0.2 | 11.3 | 7.4 | 354 | .227 | | | | | | |
| | 40 | 0.0 | 9.1 | 7.3 | 351 | .224 | | | | | | |
| | 45 | 0.0 | 7.9 | 7.2 | 352 | .225 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| SSW - 0-7 MPH | 100% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|----------------------|-----------------|
| Date 6-14-95 | |
| Lake CRYSTAL LAKE | Time 12:00 |
| County | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |
| Station Location | |

| | |
|---------------------------|--------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 9.0 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 | Cond | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 9.4 | 21.4 | 8.5 | 344 | .220 | 50 | 0.0 | 7.2 | 7.6 | 357 | .229 |
| | 5 | 9.6 | 21.2 | 8.5 | 346 | .221 | 55 | 0.0 | 7.1 | 7.6 | 350 | .280 |
| | 10 | 9.7 | 20.8 | 8.5 | 346 | .221 | 58 | 0.0 | 7.0 | 7.5 | 363 | .233 |
| | 15 | 9.6 | 19.7 | 8.3 | 345 | .221 | | | | | | |
| * | 20 | 9.2 | 16.7 | 8.4 | 346 | .221 | | | | | | |
| | 25 | 7.3 | 13.7 | 8.2 | 351 | .224 | | | | | | |
| | 30 | 4.5 | 11.4 | 7.9 | 353 | .226 | | | | | | |
| | 35 | 1.3 | 9.8 | 7.8 | 356 | .227 | | | | | | |
| | 40 | 0.9 | 8.4 | 7.7 | 354 | .227 | | | | | | |
| | 45 | 0.0 | 7.5 | 7.7 | 355 | .227 | | | | | | |

| | |
|-------------------------------------|-------------------|
| Wind Speed and Direction 0-5 MPH | Cloud Cover 0% |
|-------------------------------------|-------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 4-12-95 |
| Lake | CRYSTAL LK |
| Time | 1130 |
| County | |
| Lake Acreage | |
| Storet Number | |
| Maximum Depth | |
| Water Body Number | |
| Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 5.7m |

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 | COND | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 12.4 | 4.9 | 8.0 | .364 | .233 | 50 | 12.3 | 4.9 | 8.1 | .366 | .234 |
| | 5 | 12.4 | 4.9 | 8.0 | .366 | .234 | 55 | | | | | |
| | 10 | 12.4 | 4.9 | 8.1 | .366 | .234 | 60 | | | | | |
| | 15 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 20 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 25 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 30 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 35 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 40 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |
| | 45 | 12.3 | 4.9 | 8.1 | .366 | .234 | | | | | | |

| | | | |
|--------------------------|-----------|-------------|------|
| Wind Speed and Direction | 10-20 SSW | Cloud Cover | 100% |
|--------------------------|-----------|-------------|------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|--------------------|-----------------|
| | Date 2-23-95 |
| Lake CRYSTAL LK | Time 12:00 |
| County | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |
| Station Location | |

| | |
|---------------------------|---------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 11.5 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 | COND | TDS |
|------------|-------|------|-------|-----|------|------|-------|------|-------|-----|------|------|
| | 0 | 11.0 | 2.0 | 8.0 | .393 | .250 | 50 | 0 | 9.5 | 7.5 | .401 | .257 |
| | 5 | 10.5 | 3.8 | 7.9 | .396 | .253 | 55 | 1 | 4.6 | 7.5 | .406 | .260 |
| | 10 | 10.4 | 4.0 | 7.9 | .395 | .253 | 60 | 1 | 4.6 | 7.4 | .410 | .262 |
| | 15 | 10.3 | 3.96 | 7.9 | .394 | .252 | | | | | | |
| | 20 | 9.5 | 4.0 | 7.9 | .397 | .247 | | | | | | |
| | * 25 | 6.9 | 4.2 | 7.9 | .398 | .248 | | | | | | |
| | 30 | 0.9 | 4.5 | 7.5 | .398 | .254 | | | | | | |
| | 35 | 0 | 4.6 | 7.5 | .398 | .255 | | | | | | |
| | 40 | 1 | 4.6 | 7.4 | .400 | .256 | | | | | | |
| | 45 | 1 | 4.6 | 7.5 | .400 | .256 | | | | | | |

| | |
|--|---------------------|
| Wind Speed and Direction WNW 5-15 mph | Cloud Cover 100% |
|--|---------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | | | |
|-------------------|------------|-----------------|-------|
| Date | | 8-23-74 | |
| Lake | CRYSTAL CK | 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 |
| | 5.7 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 | C | TDS |
|------------|-------|------|-------|-----|------|-----|-------|------|-------|-----|------|------|
| | 0 | 9.0 | 22.2 | 8.3 | 354 | 226 | 50 | 0 | 8.5 | 7.0 | .414 | .265 |
| | 5 | 9.0 | 22.1 | 8.3 | 354 | 226 | 55 | 0 | 8.2 | 6.9 | .423 | .271 |
| | 10 | 9.0 | 22.0 | 8.4 | 354 | 226 | 60 | | | | | |
| | 15 | 9.1 | 21.7 | 8.4 | 353 | 226 | | | | | | |
| | 20 | 8.9 | 21.5 | 8.3 | 354 | 227 | | | | | | |
| | 25 | 5.4 | 20.6 | 8.0 | 367 | 234 | | | | | | |
| | 30 | 1.2 | 17.1 | 7.6 | 398 | 255 | | | | | | |
| * | 35 | 0.2 | 12.8 | 7.5 | 397 | 253 | | | | | | |
| | 40 | 0.0 | 10.6 | 7.3 | 390 | 250 | | | | | | |
| | 45 | 0 | 8.9 | 7.1 | 404 | 259 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
|--------------------------|-------------|

Macrophyte Sampling Information

Additional Comments or Remarks

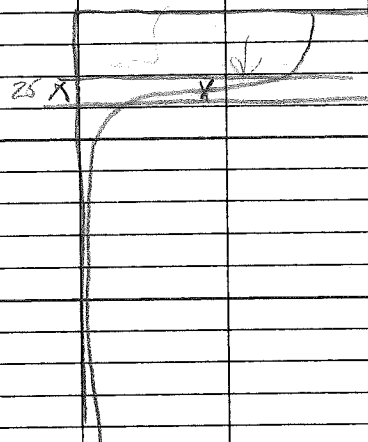
CRYSTAL LK

8-1-98
1220

| Z | T °C | D.O | COND | PH | TDS | SECCHI DEPTH | | | |
|------|------|-----|------|-----|------|--------------|-------------|--|--|
| 0 | 24.2 | 8.2 | .350 | 8.4 | .224 | 3.75m | | | |
| 5 | 23.9 | 8.3 | .350 | 8.4 | .224 | 75% | cloud cover | | |
| 10 | 23.8 | 8.2 | .351 | 8.4 | .225 | | | | |
| 15 | 23.7 | 8.2 | .351 | 8.4 | .225 | | | | |
| 20 | 23.4 | 8.1 | .355 | 8.4 | .227 | | | | |
| * 25 | 18.7 | 2.8 | .387 | 7.7 | .247 | | | | |
| 30 | 15.3 | 1.1 | .394 | 7.6 | .252 | | | | |
| 35 | 12.1 | 0.5 | .391 | 7.5 | .251 | | | | |
| 40 | 10.1 | 0 | .386 | 7.4 | .246 | | | | |
| 45 | 9.2 | 0 | .392 | 7.3 | .252 | | | | |
| 50 | 8.5 | 0 | .408 | 7.1 | .261 | | | | |
| 55 | 8.3 | 0 | .411 | 7.0 | .263 | | | | |
| 60 | 8.1 | 0 | .417 | 7.0 | .267 | | | | |

Time - 10:30
CRYSTAL LK 6-28-94

| Z | D.O | T °C | PH | CO ₂ | TDS | SECCHI | YSI D.O | YSI TEMP | YSI TEMP ADJ |
|------|------|------|-----|-----------------|------|--------|------------|-------------|-----------------|
| | | | | | | | | | +1.2 |
| 0 | 8.8 | 24.1 | 8.5 | .355 | .227 | | 9.5 | 23.1 | 24.3 |
| 5 | 8.9 | 24.0 | 8.5 | .355 | .227 | 3.8 m | 9.4 | 23.1 | 24.3 |
| 10 | 8.9 | 23.9 | 8.5 | .355 | .227 | | | | |
| 15 | 8.9 | 23.7 | 8.5 | .355 | .228 | | | | |
| 20 | 10.1 | 20.8 | 8.5 | .359 | .230 | | | | |
| * 25 | 8.6 | 15.8 | 8.3 | .365 | .233 | | | | |
| 30 | 1.1 | 13.5 | 7.7 | .375 | .240 | | | | |
| 35 | 0.1 | 11.3 | 7.5 | .375 | .240 | | | | |
| 40 | 0.0 | 10.1 | 7.5 | .371 | .237 | | | | |
| 45 | 0.0 | 9.1 | 7.4 | .373 | .239 | | | | |
| 50 | 0.0 | 8.5 | 7.3 | .383 | .245 | | | | |
| 55 | 0.0 | 8.2 | 7.2 | .391 | .251 | | | | |
| 60 | | | | | | | | | |



| | | | | |
|-------------------|------------|---------|-----------------|-------|
| Date | | 4-20-94 | | |
| Lake | CRYSTAL LK | | Time | 10:20 |
| County | SHERB. Co | | Lake Acreage | |
| Storet Number | _____ | | Maximum Depth | |
| Water Body Number | _____ | | Air Temperature | 60° |
| Station Location | | | | |
| _____ | | | | |
| _____ | | | | |

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

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

| Unit ft./m | Depth | D.O. | Temp. | pH |
|------------|-------|------|--------------------|----|
| | 0 | 11.3 | 8.1 9.3 | |
| | 5 | 11.3 | 8.0 9.2 | |
| | 10 | 11.4 | 7.9 9.1 | |
| | 15 | 11.4 | 7.9 9.1 | |
| | 20 | 11.4 | 7.9 9.1 | |
| | 25 | 11.2 | 7.8 9.0 | |
| | 30 | 11.2 | 7.8 9.0 | |
| | 35 | 11.0 | 7.5 8.7 | |
| | 40 | 11.0 | 7.3 8.5 | |
| | 45 | 11.0 | 7.7 8.4 | |

| Depth | D.O. | Temp. | pH |
|---------------|---------------|--------------------|----|
| 50 | 10.7 | 6.9 7.9 | |
| 55 | 10.1 | 6.5 7.7 | |
| 60 | 10 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 30% |

Macrophyte Sampling Information

NW 0-7 MPH

Additional Comments or Remarks

| | | | |
|-------------------|---------------|-----------------|---------|
| Date | | 3/9/94 | |
| Lake | CRYSTAL LAKE | Time | 3:15 PM |
| County | SHEBOYGAN Co. | Lake Acreage | 152 |
| Storet Number | 6 0 3 1 2 0 | Maximum Depth | 61 Ft. |
| Water Body Number | 0 0 4 5 2 0 0 | Air Temperature | |
| Station Location | | | |
| Maximum depth | | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 10.0 |

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

| Unit ft./m | Depth | D.O. | Temp. | pH | COND | Depth | D.O. | Temp. | pH | COND |
|------------|-------|------|-------|-----|------|-------|------|-------|-----|------|
| | 0 | 11.4 | 1.5 | 8.2 | 224 | 50 | 0.4 | 3.9 | | |
| | 5 | 11.4 | 3.2 | | | 55 | 0.3 | 4.0 | | |
| | 10 | 10.7 | 3.4 | | | 60 | 0.3 | 4.1 | 8.0 | 268 |
| | 15 | 10.6 | 3.4 | | | | | | | |
| | 20 | 7.8 | 3.4 | | | | | | | |
| * | 25 | 5.2 | 3.5 | 8.1 | 265 | | | | | |
| | 30 | 4.0 | 3.5 | | | | | | | |
| | 35 | 3.1 | 3.5 | | | | | | | |
| | 40 | 2.3 | 3.9 | | | | | | | |
| | 45 | 1.0 | 3.9 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

~~43° 22' 22 N 88° 16' 05 W~~

43° 48' 28 N 88° 00' 47 W

CRYSTAL LK

11:20

9-2-92

| Z | D.O | T °C | COND | pH | Secchi Disk | 4.5m |
|--|-----|-----------|------|-----|-------------|------|
| 0 | 9.9 | 20.7 17.7 | 400 | 7.9 | | |
| 5 | 9.8 | 20.7 17.7 | | | | |
| 10 | 9.8 | 20.7 17.7 | | | | |
| 15 | 9.8 | 20.7 17.7 | | | | |
| 20 | 9.7 | 20.7 17.7 | | | | |
| 25 | 6.6 | 19.5 16.5 | | | | |
| * 30 | 1.2 | 14.2 11.2 | 400 | 7.6 | | |
| 35 | 0.2 | 10.7 7.7 | | | | |
| 40 | 0.2 | 8.4 5.4 | | | | |
| 45 | 0.2 | 7.3 4.3 | | | | |
| 50 | 0.1 | 7.0 4.0 | 390 | 7.6 | | |
| 55 | | | | | | |
| 60 | | | | | | |
| * ALL TEMPS NEED TO BE ADJUSTED MINUS 3.0 °C | | | | | | |

| | | | |
|-------------------|--|---------------|--|
| Date | | 7/27/92 | |
| Lake | | CRYSTAL LAKE | |
| Time | | 12:05 - 12:20 | |
| County | | SHEBOYGAN Co. | |
| Lake Acreage | | 152 | |
| Storet Number | | 6 0 3 1 2 0 | |
| Maximum Depth | | 61 Ft. | |
| Water Body Number | | 0 0 4 5 2 0 0 | |
| Air Temperature | | | |

Station Location
Maximum depth

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 2.9 |

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 | 9.6 | 18.8 | 8.6 | 330 | 50 | 1.1 | 2.0 | |
| | 5 | 9.5 | 18.3 | | | 35 | 1.05 | 1.8 | |
| | 10 | 9.5 | 18.1 | | | 60 | 1.05 | 1.8 | 8.2 |
| | 15 | 9.7 | 17.0 | | | | | | |
| | 20 | 8.8 | 15.9 | 8.6 | 325 | | | | |
| | 25 | 5.6 | 16.8 | | | | | | |
| | 30 | 1.9 | 6.5 | | | | | | |
| | 35 | 1.25 | 5.1 | | | | | | |
| | 40 | 1.1 | 3.2 | | | | | | |
| | 45 | 1.1 | 2.5 | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| N 10mph | 5% |

Macrophyte Sampling Information
M. d sample @ 20 feet

Additional Comments or Remarks

Crystal Lake 6-17-92

| Depth | D.O | Temp |
|-------|------|------|
| surf | 11.3 | 16.5 |
| 5' | 10.8 | 16.2 |
| 10' | 10.6 | 16.2 |
| 15' | 10.2 | 16.0 |
| 20' | 10.9 | 11.0 |
| 25' | 11.0 | 8.0 |
| 30' | 9.0 | 6.0 |
| 35' | 7.2 | 4.5 |
| 40' | 3.8 | 4.0 |
| 45' | 3.2 | 4.0 |
| 50' | 3.2 | 4.0 |
| 55' | 3.0 | 4.0 |

100% Cloudy
Wind Calm - Slight E
80°F
Secchi = 4.1
Thermocline - 25ft
middle sample

YSI 33

Tip - 305 umhos
Mid - 305 umhos
Bottom - 305 umhos

| Depth | DO | Temp |
|-------|------|------|
| Surf | 10.2 | 16.2 |
| 5' | 10.2 | 16.2 |
| 10' | 10.4 | 16.2 |
| 15' | 12.0 | 16.0 |
| 20' | 12.2 | 11.0 |
| 25' | 12.6 | 8.5 |
| 30' | 8.2 | 6.8 |
| 35' | 7.0 | 5.0 |
| 40' | 4.6 | 3.0 |
| 45' | 3.4 | 2.0 |
| 50' | 3.2 | 2.0 |
| 55' | 3.0 | 2.0 |
| 60' | | |

YSI 32

Top 308 umhos
Mid 315 umhos
Bot 319 umhos

pH
Surf - 8.6
Mid - 8.6
Bot - 8.6

Rich Steneker
Greg Borzick

| | |
|------------------------------------|-------------------------|
| Date 2-17-92 | |
| Lake CRYSTAL LAKE | Time 11:00 |
| County SHEBOYGAN Co. | Lake Acreage 152 |
| Storet Number 6 0 3 1 2 0 | Maximum Depth 61 Ft. |
| Water Body Number 0 0 4 5 2 0 0 | Air Temperature |
| Station Location Maximum depth | |

| | |
|------------------------------|------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 6.5 |
|------------------------------|------------------------------------|

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

| Unit ft./m | Depth | D.O. | Temp. | pH | Cond | Depth | D.O. | Temp. | pH | Cond |
|---------------|-------|------|-------|-----|------|----------------|----------------|----------------|----------------|----------------|
| | 0' | 12.3 | -2 | 8.1 | 710 | 50' | 1.8 | 0.75 | | |
| | 5' | 11.6 | 0.5 | | | 55' | 1.4 | 0.75 | | |
| | 10' | 11.4 | 0.75 | | | 60' | 1.0 | 0.75 | 8.0 | 730 |
| | 15' | 11.4 | 0.75 | | | 65' | 0.8 | 1.0 | 8.0 | 730 |
| | 20' | 11.3 | 0.75 | | | | | | | |
| | 25' | 11.1 | 0.75 | | | | | | | |
| * | 30' | 5.6 | 0.75 | 8.1 | 730 | | | | | |
| | 35' | 6.6 | 0.75 | | | | | | | |
| | 40' | 4.1 | 0.75 | | | | | | | |
| | 45' | 2.4 | 0.75 | | | | | | | |

| | |
|--------------------------|---------------------|
| Wind Speed and Direction | Cloud Cover 100% |
|--------------------------|---------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | | |
|-------------------|-----------------|-----------|
| | Date | 20 Aug 91 |
| Lake | Time | 1315 |
| County | Lake Acreage | |
| Storet Number | Maximum Depth | 61' |
| Water Body Number | Air Temperature | 80°F |
| Station Location | | |

| | | |
|---------------------------|-----------------------------|----|
| Light Penetration Station | Secchi Disc Depth in Meters | 4m |
|---------------------------|-----------------------------|----|

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

| Unit ft./m | Depth | D.O. | Temp. | pH |
|------------|-------|------|-------|----|
| 1 | 1 | 9.4 | 22 | |
| 5 | 5 | 9.2 | 21.5 | |
| 10 | 10 | 9.2 | 21 | |
| 15 | 15 | 9.0 | 21 | |
| 20 | 20 | 8.6 | 20 | |
| 25 | 25 | 4.4 | 16 | |
| 30 | 30 | .6 | 13 | |
| 35 | 35 | .3 | 10 | |
| 40 | 40 | .3 | 8 | |
| 45 | 45 | .3 | 6 | |

(over)

| Depth | D.O. | Temp. | pH |
|-------|------|-------|----|
| 50 | .3 | 7 | |
| 55 | .3 | 5 | |
| 60 | .3 | 5 | |

(over)

| | | |
|--------------------------|-------------|------------|
| Wind Speed and Direction | Cloud Cover | 0.5 SE 40% |
|--------------------------|-------------|------------|

Macrophyte Sampling Information

Additional Comments or Remarks

H₂S strong in bottom sample

| | | | |
|-------------------|---------------|-----------------|---------|
| | | Date | 7-24-91 |
| Lake | CRYSTAL LAKE | Time | 11:15 |
| County | SHEBOYGAN Co. | Lake Acreage | 152 |
| Storet Number | 6 0 3 1 2 0 | Maximum Depth | 61 Ft. |
| Water Body Number | 0 0 4 5 2 0 0 | Air Temperature | |
| Station Location | Maximum depth | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 5.7 m |

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

| Unit ft./m | Depth | D.O. | Temp. | pH |
|------------|-------|------|-------|----|
| | 0 | 8.6 | 23.5 | |
| | 5 | 8.4 | 23.5 | |
| | 10 | 8.4 | 23.3 | |
| | 15 | 8.4 | 23.5 | |
| | 20 | 8.1 | 21.0 | |
| | 25 | 9.6 | 14.0 | |
| | 30 | 4.0 | 11.8 | |
| | 35 | 1.2 | 10.0 | |
| | 40 | 0.9 | 8.0 | |
| | 45 | 0.6 | 6.0 | |

| Depth | D.O. | Temp. | pH |
|-------|------|-------|----|
| 50 | 0.6 | 5.0 | |
| 55 | 0.5 | 5.0 | |
| 60 | 0.5 | 4.2 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

CRYSTAL LK

9:30 AM

10-27-91

| Depth | DO | T° | pH | COND | Secchi | Disk | 5.5m |
|-------|------|------|-----|------|--------|------|------|
| 0 | 8.8 | 22.9 | 8.5 | 370 | | | |
| 5 | 9.0 | 22.9 | | | | | |
| 10 | 8.9 | 22.8 | | | | | |
| 15 | 9.2 | 21.2 | | | | | |
| 20 | 14.1 | 14.9 | | | | | |
| * 25 | 9.4 | 12.0 | 8.5 | 340 | | | |
| 30 | 5.8 | 10.9 | | | | | |
| 35 | 1.5 | 9.6 | | | | | |
| 40 | 1.1 | 8.2 | | | | | |
| 45 | 0.9 | 6.6 | | | | | |
| 50 | 0.9 | 5.0 | | | | | |
| 55 | 0.8 | 4.6 | 8.1 | 400 | | | |

Crystal Lake

4-29-91
01150

| Depth | Temp | DO | pH | Cond | Secchi |
|-------|------|------|------|------|--------|
| 5 | 12 | 10.5 | 7.95 | 320 | 8.7 M |
| 10 | 11.8 | 10.5 | | | |
| 15 | 10.1 | 11.0 | | | |
| 20 | 9.0 | 11.1 | | | |
| 25 | 8.1 | 10.9 | | | |
| 30 | 8.0 | 10.9 | | | |
| 35 | 7.5 | 10.1 | | | |
| 40 | 7.0 | 9.0 | | | |
| 45 | 5.0 | 1.0 | | | |
| 47 | 4.1 | 0.5 | 7.5 | 390 | |

| | |
|------------------------------------|--------------------------|
| Date 27 Feb 91 | |
| Lake CRYSTAL LAKE | Time 10:30 |
| County SHEBOYGAN Co. | Lake Acreage 152 |
| Storet Number 6 0 3 1 2 0 | Maximum Depth 61 Ft. |
| Water Body Number 0 0 4 5 2 0 0 | Air Temperature 25 °F |
| Station Location Maximum depth | |

| | |
|------------------------------|------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 5.5 |
|------------------------------|------------------------------------|

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

| Unit ft./m | Depth | D.O. | Temp. | pH | COND | Depth | D.O. | Temp. | pH | COND |
|------------|-------|------|-------|-----|------|-------|------|-------|-----|------|
| 5' X | 1 | 9.2 | 1.0 | 8.2 | .437 | 50 | 0.3 | 2.9 | | |
| | 5 | 9.1 | 2.1 | | | 55 | 0.2 | 2.9 | 8.1 | .414 |
| | 10 | 9.1 | 2.1 | | | | | | | |
| | 15 | 8.0 | 2.1 | | | | | | | |
| | 20 | 6.1 | 2.1 | | | | | | | |
| | 25 | 4.3 | 2.5 | | | | | | | |
| | 30 | 3.2 | 2.5 | 8.2 | .419 | | | | | |
| | 35 | 1.0 | 2.5 | | | | | | | |
| | 40 | 1.0 | 2.9 | | | | | | | |
| | 45 | 0.4 | 2.9 | | | | | | | |

| | |
|------------------------------------|--------------------|
| Wind Speed and Direction 5-10 W | Cloud Cover 50% |
|------------------------------------|--------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

18" ice
3.4" snow

* "Surface sample collected at 2ft due to snow & water
RETURN AFTER Auguring hole in ice

| | | | |
|-------------------|---------------|-----------------|-----------|
| | | Date | 29 Aug 90 |
| Lake | CRYSTAL LAKE | Time | 1445 |
| County | SHEBOYGAN Co. | Lake Acreage | 152 |
| Storet Number | 6 0 3 1 2 0 | Maximum Depth | 61 Ft. |
| Water Body Number | 0 0 4 5 2 0 0 | Air Temperature | 80°F |

Station Location
Maximum depth

| | |
|---------------------------|-----------------------------|
| 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 | COND | Depth | D.O. | Temp. | pH | COND |
|------------|-------|------|-------|-----|------|--------|------|-------|-----|------|
| SURF X | Surf | 9.4 | 25° | 8.9 | 400 | 50' | .2 | 7° | | |
| | 5' | 9.4 | 25° | | | 55' | .2 | 7° | | |
| | 10' | 9.4 | 25° | | | Bottom | | | 7.5 | 450 |
| | 15' | 9 | 23.5° | | | | | | | |
| MID X | 20' | 9 | 22° | | | | | | | |
| | 25' | 1.5 | 20° | 8.2 | 400 | | | | | |
| | 30' | 1.5 | 15° | | | | | | | |
| | 35' | .25 | 11.5° | | | | | | | |
| | 40' | .25 | 10° | | | | | | | |
| | 45' | .15 | 7° | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| NW 5-10 | |

Macrophyte Sampling Information

Additional Comments or Remarks

H₂S present in bottom sample

| | | | |
|-------------------|-----------|-----------------|------|
| | Date | 24 July 1990 | |
| Lake | CRYSTAL | Time | 1040 |
| County | St Albans | Lake Acreage | |
| Storet Number | | Maximum Depth | |
| Water Body Number | | Air Temperature | 24°C |
| Station Location | | | |

| | | |
|---------------------------|-----------------------------|------|
| Light Penetration Station | Secchi Disc Depth in Meters | 4.5m |
|---------------------------|-----------------------------|------|

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 | 9.4 | 23.0 | 8.81 | 290 | 50 | 0 | 6.5 | | |
| | 5 | 9.4 | 22.5 | | | 55 | 0 | 6.0 | 7.80 | 300 |
| | 10 | 8.5 | 22.5 | | | 60 | 0 | 6.0 | | |
| | 15 | 8.1 | 22.5 | | | | | | | |
| | 20 | 7.7 | 20.0 | | | | | | | |
| | 25 | 3.8 | 14.5 | 8.84 | 280 | | | | | |
| | 30 | 0.5 | 11.5 | | | | | | | |
| | 35 | 0.45 | 9.5 | | | | | | | |
| | 40 | 0.20 | 8.0 | | | | | | | |
| | 45 | 0.00 | 7.0 | | | | | | | |

| | | | |
|--------------------------|-------|-------------|----|
| Wind Speed and Direction | 0.5 W | Cloud Cover | 5% |
|--------------------------|-------|-------------|----|

Macrophyte Sampling Information

Milfoil beds on east side still per'le feet below surface.

Additional Comments or Remarks

ROT 55'

MD 25'

| | |
|-------------------|-----------|
| Date | 06/27/90 |
| Lake | CRYSTAL |
| Time | 1150 |
| County | SHEBOYGAN |
| Lake Acreage | |
| Storet Number | 603120 |
| Maximum Depth | |
| Water Body Number | 0045200 |
| Air Temperature | 17.0°C |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 2.6 m |

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

| Unit (ft/m) | Depth | D.O. | Temp. | pH |
|-------------|-------|------|-------|----|
| | 0 | 9.4 | 21.0 | |
| | 5 | 9.3 | 21.5 | |
| | 10 | 9.1 | 21.5 | |
| | 15 | 9.0 | 19.5 | |
| | 20 | 8.7 | 16.5 | |
| | 25 | 4.4 | 13.5 | |
| | 30 | 1.1 | 11.0 | |
| | 35 | 0.8 | 9.5 | |
| MID ↳ | 40 | 0.5 | 8.0 | |
| | 45 | 0.4 | 7.0 | |

| Depth | D.O. | Temp. | pH |
|-------|------|-------|----|
| 50 | 0.4 | 6.5 | |
| 55 | 0.4 | 6.5 | |
| 60 | 0.4 | 6.0 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------------|------|-------------|-----|
| Wind Speed and Direction | 20 E | Cloud Cover | 80% |
|--------------------------|------|-------------|-----|

Macrophyte Sampling Information

Large leaf in launch bay

Thal fool on east side not visible from surface @ 7 ft

" " " " with Corn tail + N.olla @ 9.5 ft

One Thal fool bed to surface

Additional Comments or Remarks

* BOT @ 57'

| | | | |
|-------------------|-----------|---------------|---------|
| Lake | CRYSTAL | Date | 4/25/90 |
| County | SHEBOYGAN | Time | 1015 |
| Storet Number | --- | Lake Acreage | |
| Water Body Number | --- | Maximum Depth | |
| Station Location | --- | | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 4.2 |

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

Unit
ft./m

| Depth | D.O. | Temp. | pH | | Depth | D.O. | Temp. | pH | |
|-------|------|-------|------|-------------|-------|------|-------|------|-------------|
| 0 Ft | 11.2 | 13.0 | 8.65 | COND 307 | 50 | 10.8 | 6.5 | | COND 320 |
| 5 | 11.2 | 13.0 | | | 55 | 11.4 | 6.5 | | |
| 10 | 11.3 | 13.0 | | | 60 | 9.5 | 6.5 | 8.45 | |
| 15 | 12.6 | 9.0 | | | | | | | |
| 20 | 12.5 | 7.5 | | | | | | | |
| 25 | 12.4 | 7.0 | | | | | | | |
| 30 | 11.9 | 7.0 | | | | | | | |
| 35 | 11.7 | 6.5 | | | | | | | |
| 40 | 11.3 | 6.5 | | | | | | | |
| 45 | 11.0 | 6.5 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| w 7-20 | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 8/21/89 |
| Lake | CRISTAL L. |
| Time | 09:30 |
| County | |
| Storet Number | |
| Water Body Number | |
| Lake Acreage | |
| Maximum Depth | |
| Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 4 m |

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

| Unit ft./m | Depth | D.O. | Temp. | pH | | Depth | D.O. | Temp. | pH | |
|------------|-------|------|-------|------|-----|-------|------|-------|------|-----|
| | 5 | 8.7 | 22.5 | 8.65 | 310 | 55 | 0.6 | 5.5 | | |
| | 10 | 8.7 | 22.5 | | | 60 | 0.6 | 5.3 | 7.35 | 400 |
| | 15 | 8.7 | 22.5 | | | | | | | |
| * | 20 | 8.2 | 21.1 | 8.7 | 300 | | | | | |
| | 25 | 3.8 | 15.0 | | | | | | | |
| | 30 | 1.1 | 12.5 | | | | | | | |
| | 35 | 0.6 | 10.0 | | | | | | | |
| | 40 | 0.6 | 7.3 | | | | | | | |
| | 45 | 0.6 | 6.2 | | | | | | | |
| | 50 | 0.6 | 5.8 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| 0-5 NW | 5% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|---------|
| Date | 7-25-89 |
| Lake | CRYSTAL |
| 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 |
| | 4.5 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 | 9.8 | 24.3 | 8.45 | 275 | 50 | 0.3 | 5.1 | | |
| | 5 | 9.6 | 24.1 | | * | 55 | 0.3 | 5.0 | 8.05 | 370 |
| | 10 | 10.0 | 23.6 | | | | | | | |
| | 15 | 9.8 | 22.3 | | | | | | | |
| | 20 | 10.3 | 18.4 | | | | | | | |
| * | 25 | 5.2 | 12.9 | 8.4 | 305 | | | | | |
| | 30 | 0.9 | 10.9 | | | | | | | |
| | 35 | 0.4 | 8.9 | | | | | | | |
| | 40 | 0.4 | 7.3 | | | | | | | |
| | 45 | 0.3 | 5.6 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 40% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|-----------------|
| Date 10-27-89 | |
| Lake CRYSTAL | Time 9:40 |
| County WASH | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |

Station Location

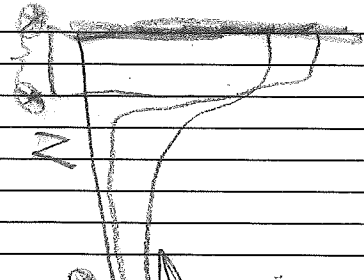
| | |
|---------------------------|------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 3.0 |
|---------------------------|------------------------------------|

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

| Unit ft./m | Depth | D.O. | Temp. | pH | COND | Depth | D.O. | Temp. | pH | COND |
|------------|-------|------|-------|-----|------|-------|------|-------|-----|------|
| * | 0 | 9.2 | 23.0 | 8.4 | 380 | 50 | 0.3 | 5.0 | | 440 |
| | 5 | 9.4 | 22.9 | | | 55 | 0.3 | 4.9 | | |
| | 10 | 10.6 | 22.0 | | | 60 | 0.3 | 4.8 | 7.7 | |
| * | 15 | 11.0 | 18.0 | 8.6 | 370 | | | | | |
| | 20 | 9.7 | 15.1 | | | | | | | |
| | 25 | 6.6 | 11.9 | | | | | | | |
| | 30 | 2.1 | 10.1 | | | | | | | |
| | 35 | 0.4 | 8.8 | | | | | | | |
| | 40 | 0.3 | 7.0 | | | | | | | |
| | 45 | 0.3 | 5.5 | | | | | | | |

| | |
|-------------------------------------|--------------------|
| Wind Speed and Direction SW 5-10 | Cloud Cover 30% |
|-------------------------------------|--------------------|

Macrophyte Sampling Information



Additional Comments or Remarks

| | |
|-------------------|---------|
| Date | 2-23-89 |
| Lake | CRYSTAL |
| Time | 11:33 |
| County | |
| Lake Acreage | |
| Storet Number | |
| Maximum Depth | |
| Water Body Number | |
| Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| 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 | COND |
|------------|-------|------|-------|------|------|-------|------|-------|------|------|
| * | 0 | 14.2 | 1.9 | 7.9 | 205 | 50 | 0.4 | 4.2 | | COLD |
| | 5 | 13.9 | 3.9 | | | 55 | 0.3 | 4.2 | | |
| | 10 | 13.9 | 4.0 | | | * 57 | 0.3 | 4.5 | 7.82 | 235 |
| | 15 | 12.2 | 4.0 | | | | | | | |
| | 20 | 10.5 | 4.1 | | | | | | | |
| * | 25 | 7.1 | 4.2 | 7.89 | 210 | | | | | |
| | 30 | 6.6 | 4.2 | | | | | | | |
| | 35 | 5.9 | 4.2 | | | | | | | |
| | 40 | 4.5 | 4.2 | | | | | | | |
| | 45 | 1.2 | 4.2 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

Ice = 0.5 m
Snow = 100% 4-5 in

| | |
|--------------------|-----------------|
| | Date 8-30-58 |
| Lake CRYSTAL LK | Time 12:40 |
| County | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |
| Station Location | |

| | |
|---------------------------|-------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 5.75 |
|---------------------------|-------------------------------------|

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

| Unit ft./m | Depth | D.O. | Temp. | pH |
|------------|-------|------|-------|----|
| * | 0 | 8.5 | 22.2 | |
| | 5 | 8.5 | 22.1 | |
| | 10 | 8.4 | 22.0 | |
| | 15 | 8.4 | 21.9 | |
| | 20 | 8.4 | 21.9 | |
| | 25 | 6.8 | 21.4 | |
| * | 30 | 0.7 | 17.0 | |
| | 35 | 0.5 | 11.7 | |
| | 40 | 0.4 | 9.9 | |
| | 45 | 0.4 | 8.2 | |

| Depth | D.O. | Temp. | pH |
|-------|------|-------|----|
| 50 | 0.4 | 7.8 | |
| 55 | 0.4 | 7.2 | |
| * 60 | 0.4 | 7.2 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|------------------------------------|--------------------|
| Wind Speed and Direction SW 0-5 | Cloud Cover 15% |
|------------------------------------|--------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 7/21/88 |
| Lake | Crystal Lk |
| Time | 12:00 pm |
| County | Shebo |
| 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 | | Depth | D.O. | Temp. | pH | |
|------------|-------|------|------|-----|-----|-------|------|-------|-----|-----|
| | 0 | 8.3 | 26.8 | 8.6 | 360 | 0 | 0.0 | 7.2 | | |
| | 5 | 8.2 | 25.1 | | | 5 | 0.0 | 7.0 | | |
| | 10 | 8.9 | 25 | | | 10 | 0.0 | 7.0 | 7.6 | 450 |
| * | 15 | 8.3 | 25.9 | | | | | | | |
| | 20 | 8.4 | 21.5 | 8.6 | 370 | | | | | |
| | 25 | 8.6 | 17.5 | | | | | | | |
| | 30 | 8.5 | 18.2 | | | | | | | |
| | 35 | 8.2 | 18.2 | | | | | | | |
| | 40 | 8.1 | 9.0 | | | | | | | |
| | 45 | 8.1 | 8.0 | | | | | | | |

| | | | |
|--------------------------|--------|-------------|-----|
| Wind Speed and Direction | 0-5 NE | Cloud Cover | 20% |
|--------------------------|--------|-------------|-----|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|----------|
| Date | 6-13-88 |
| Lake | Crystal |
| Time | 11:45 AM |
| County | |
| Storet Number | |
| Water Body Number | |
| Lake Acreage | |
| Maximum Depth | |
| Air Temperature | |

Station Location

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 2.4 |

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. |
|------------|-------|------|-------|-----|-------|-------|------|-------|-----|-------|
| X | 0 | 10.1 | 22.5 | 7.4 | 280 | 50 | 0.1 | 7.2 | | |
| | 5 | 10.1 | 22.1 | | | 55 | 0.1 | 7.3 | | |
| | 10 | 10.1 | 22.0 | | | 60 | 0.1 | 6.9 | 7.4 | 310 |
| | 15 | 10.1 | 21.2 | | | | | | | |
| chla → | 20 | 13.3 | 17.2 | | | | | | | |
| | 25 | 11.4 | 13.0 | | | | | | | |
| | 30 | 6.7 | 11.2 | | | | | | | |
| X | 35 | 4.4 | 10.1 | 7.4 | 290 | | | | | |
| | 40 | 2.6 | 9.0 | | | | | | | |
| | 45 | 0.2 | 8.0 | | | | | | | |

| | | | |
|--------------------------|----------|-------------|---|
| Wind Speed and Direction | SW 10-15 | Cloud Cover | 0 |
|--------------------------|----------|-------------|---|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|--------------------|-----------------|
| | Date 4-12-88 |
| Lake CRYSTAL LK | Time 12:45 |
| County | Lake Acreage |
| Storet Number | Maximum Depth |
| Water Body Number | Air Temperature |

Station Location

| | |
|---------------------------|--------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 9.5 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 |
|------------|-------|------|-------|------|------|-------|------|-------|-----|------|
| x | 0 | 10.7 | 8.9 | 8.35 | 255 | 50 | 0.2 | 4.5 | | |
| | 5 | 10.7 | 8.7 | | | 55 | 0.1 | 4.2 | | |
| | 10 | 10.7 | 8.4 | | x | 60 | 0.1 | 4.2 | 8.3 | 270 |
| | 15 | 10.7 | 8.4 | | | | | | | |
| | 20 | 10.7 | 8.0 | | | | | | | |
| | 25 | 10.6 | 7.3 | | | | | | | |
| | 30 | 10.4 | 7.0 | | | | | | | |
| | 35 | 10.4 | 6.9 | | | | | | | |
| | 40 | 9.7 | 6.1 | | | | | | | |
| | 45 | 5.4 | 5.1 | | | | | | | |

| | |
|------------------------------------|--------------------|
| Wind Speed and Direction 0-7 NE | Cloud Cover 0/8 |
|------------------------------------|--------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

CRYSTAL LK 2-10-88 11:30

| | DEPTH | D.O | TEMP | PH | COND | ICE DEPTH = | 0.5M |
|---|-------|------|-----------------------|------|------|--------------|------|
| * | 0 | 13.4 | 0.1 0.1 | 8.15 | 240 | SECC HI 8.0M | |
| | 5 | 12.8 | 3.2 | | | | |
| | 10 | 12.4 | 3.5 | | | | |
| | 15 | 12.2 | 3.5 | | | | |
| * | 20 | 10.8 | 3.4 | 8.1 | 250 | | |
| | 25 | 9.0 | 3.9 | | | | |
| | 30 | 8.8 | 3.7 | | | | |
| | 35 | 7.8 | 3.8 | | | | |
| | 40 | 6.8 | 3.9 | | | | |
| | 45 | 5.3 | 3.9 | 7.9 | 250 | | |
| | 50 | 3.5 | 3.9 | | | | |
| * | 55 | 0.1 | 3.9 | | | | |
| * | 60 | | | | | | |

| | |
|---|-----------------------------|
| Lake <u>CRYSTAL LK</u> | Date <u>8-18-87</u> |
| County <u>SHER. Co</u> | Time <u>10:53</u> |
| Storet Number _____ | Lake Acreage _____ |
| Water Body Number _____ | Maximum Depth <u>61'</u> |
| Station Location <u>DEEP WATER STATION</u> | Air Temperature _____ |

| | |
|------------------------------------|---|
| Light Penetration Station _____ | Secchi Disc Depth in Meters <u>2.0 m</u> |
|------------------------------------|---|

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 | 8.1 | 24.5 | 8.5 | 270 | 50 | 0.0 | 6.4 | | |
| | 5 | 8.1 | 24.5 | | | 55 | 0.0 | 6.0 | | |
| | 10 | 8.1 | 24.5 | | | X 60 | 0.0 | 6.0 | 7.2 | 375 |
| | 15 | 8.1 | 24.5 | | | | | | | |
| | 20 | 8.0 | 24.5 | | | | | | | |
| X | 25 | 3.3 | 18.8 | 7.9 | 315 | | | | | |
| | 30 | 0.0 | 13.5 | | | | | | | |
| | 35 | 0.0 | 10.0 | | | | | | | |
| | 40 | 0.0 | 8.0 | | | | | | | |
| | 45 | 0.0 | 6.8 | | | | | | | |

| | |
|---|----------------------------|
| Wind Speed and Direction <u>WNW 5-10</u> | Cloud Cover <u>100%</u> |
|---|----------------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

W2 Level 486

| | |
|-------------------|------------|
| Date | 21 July 87 |
| Lake | CRYSTAL L. |
| Time | 1145 |
| County | SHERBOURN |
| Lake Acreage | |
| Storet Number | |
| Maximum Depth | 61 |
| Water Body Number | |
| Air Temperature | |
| Station Location | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 4.7 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 |
|------------|-------|------|-------|------|------|-------|------|-------|----------|
| X | 1 | 7.8 | 26 | 8.5 | 315 | 50 | 0.05 | 6.0 | |
| | 5 | 7.8 | 26 | | | X 55 | 0.05 | 6.0 | 7.75 400 |
| | 10 | 7.8 | 25.8 | | | | | | |
| | 15 | 7.7 | 25.5 | | | | | | |
| X | 20 | 7.7 | 22.8 | 8.35 | 320 | | | | |
| | 25 | 6.2 | 15.8 | | | | | | |
| | 30 | 0.6 | 11.5 | | | | | | |
| | 35 | 0.1 | 9.0 | | | | | | |
| | 40 | 0.05 | 7.8 | | | | | | |
| | 45 | 0.05 | 7.0 | | | | | | |

| | |
|--------------------------|---------------|
| Wind Speed and Direction | Cloud Cover |
| | 50% VERY HAZY |

Macrophyte Sampling Information

Additional Comments or Remarks

NO CHICKS! RECOMMEND FISH PLANT STOCK AT A RATE OF 5/ACRE.

| | |
|-------------------|------------------------|
| | Date 6-2-87 |
| Lake CRYSTAL | Time 10:25 |
| County SHER. | Lake Acreage |
| Storet Number | Maximum Depth 61' |
| Water Body Number | Air Temperature 72° |

Station Location

| | |
|---------------------------|------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 3.8 |
|---------------------------|------------------------------------|

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

| Unit ft./m | Depth | D.O. | Temp. | pH | | Depth | D.O. | Temp. | pH | |
|------------|-------|------|-------|-----|------|-------|------|-------|-----|------|
| | 5 | 10.6 | 23.0 | 7.6 | 35.9 | 55 | 0.05 | 5.9 | | |
| | 10 | 12.6 | 20.1 | | * | 60 | 0.2 | 5.9 | 7.5 | 38.2 |
| * | 15 | 12.0 | 17.5 | 7.8 | 32.7 | | | | | |
| | 20 | 10.8 | 16.1 | | | | | | | |
| | 25 | 9.2 | 11.6 | | | | | | | |
| | 30 | 6.9 | 9.3 | | | | | | | |
| | 35 | 4.4 | 7.9 | | | | | | | |
| | 40 | 2.2 | 7.0 | | | | | | | |
| | 45 | 0.4 | 6.3 | | | | | | | |
| | 50 | 0.3 | 6.0 | | | | | | | |

| | |
|------------------------------------|--------------------|
| Wind Speed and Direction NW 0-7 | Cloud Cover 40% |
|------------------------------------|--------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|--------------|
| Date | 4/9/87 |
| Lake | CRYSTAL LAKE |
| Time | 1130 |
| County | SHEB. |
| Lake Acreage | |
| Storet Number | 603120 |
| Maximum Depth | 61 |
| Water Body Number | |
| Air Temperature | 70° |
| Station Location | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 8.1 m |

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

| Unit ft./m | Depth | D.O. | Temp. | pH | |
|------------|---------|------|-------|------|-----|
| 0 | 5 (1.0) | 11.0 | 7.0 | 8.25 | 255 |
| | 5.0 | 11.0 | 7.0 | | |
| | 10.0 | 11.0 | 7.0 | | |
| | 15.0 | 11.0 | 7.0 | | |
| | 20.0 | 10.8 | 6.2 | | |
| X | 25.0 | 10.8 | 6.0 | 8.3 | 249 |
| | 30.0 | 10.4 | 5.8 | | |
| | 35.0 | 10.2 | 5.5 | | |
| | 40.0 | 10.1 | 5.5 | | |
| | 45.0 | 7.6 | 5.0 | | |

| Depth | D.O. | Temp. | pH |
|-----------------|-----------------|----------------|------|
| 50.0 | 6.6 | 4.8 | |
| 55.0 | 0.55 | 4.5 | |
| 60.0 | 0.25 | 4.5 | 8.05 |
| 65.0 | 0.20 | 4.5 | |
| 70.0 | 0.20 | 4.5 | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| SSW 0-5 | 0% |

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|-------------------|------------|
| Date | 2/25/87 |
| Lake | CRYSTAL LK |
| County | SNEB CO |
| Storet Number | 603120 |
| Water Body Number | |
| Station Location | |
| Time | |
| Lake Acreage | |
| Maximum Depth | |
| Air Temperature | |

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | > 10 m EST 13 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 |
|------------|-------|------|-------|-----|------|-------|------|-------|-----|------|
| * | 2.0 | 10.8 | 2.3 | 8.3 | 230 | 50 | .15 | 3.7 | | |
| | 5 | 10.6 | 3.0 | | | 55 | .05 | 4.0 | | |
| | 10 | 10.6 | 3.0 | | | * 60 | 0 | 4.0 | 7.9 | 240 |
| | 15 | 10.4 | 3.0 | | | | | | | |
| | 20 | 6.8 | 3.2 | | | | | | | |
| * | 25 | 5.3 | 3.2 | 8.2 | 235 | | | | | |
| | 30 | .75 | 3.3 | | | | | | | |
| | 35 | .50 | 3.5 | | | | | | | |
| | 40 | .80 | 3.8 | | | | | | | |
| | 45 | .45 | 3.8 | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | ~ 50% |

Macrophyte Sampling Information

Additional Comments or Remarks

ICE DEPTH 1.5'

| | |
|-----------------------------|------------------------|
| Lake <i>Crystal Lake</i> | Date <i>8/27/86</i> |
| County <i>Shelburne</i> | Time <i>10:30</i> |
| Storet Number | Lake Acreage |
| Water Body Number | Maximum Depth |
| Station Location | Air Temperature |

| | |
|---|---|
| Light Penetration Station <i>Max Depth Location</i> | Secchi Disc Depth in Meters <i>Feet</i> <i>13.0</i> |
|---|---|

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

| Unit ft./m | Depth | D.O. | Temp. | pH |
|---------------|-------|--------------------|-------|----|
| | 0 | 7.8 | 21.5 | |
| | 5 | 7.8 | 21.5 | |
| | 10 | 7.8 | 21.5 | |
| | 15 | 7.8 | 21.5 | |
| | 20 | 7.8 | 21.5 | |
| | 25 | 7.8 3.0 | 19.8 | |
| | 30 | 0.3 | 14.0 | |
| | 35 | 0.2 | 11.0 | |
| | 40 | 0.2 | 7.0 | |
| | 45 | 0.1 | 6.2 | |

| Depth | D.O. | Temp. | pH |
|-------|------|-------|----|
| 50 | 0.1 | 5.5 | |
| 55 | 0.2 | 7.5 | |
| 60 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

20.744
4.7 21.5
33 ft 7.3 21.2

| | |
|--------------------------|---|
| Wind Speed and Direction | Cloud Cover <i>75% wind from North ~ 5 mph</i> |
|--------------------------|---|

Macrophyte Sampling Information
Mid Depth Sample 25'

Additional Comments or Remarks
Zone from 50 to 10' H.

Date 7-30-84
 Time 15:00
 Lake Acreage 152
 Maximum Depth 61 Ft.
 Air Temperature 75-80°

Lake CRYSTAL LAKE
 County SHEBOYGAN Co.
 Storet Number 6 0 3 1 2 0
 Water Body Number 0 0 4 5 2 0 0

Station Location
Maximum depth

Light Penetration
 Station _____ Secchi Disc Depth in Meters 4.7

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

| Unit ft./m | Depth | D.O. | Temp. | pH | Cloud | Depth | D.O. | Temp. | pH |
|---------------|-------|------|-------|-----|-------|-------|------|-------|-----|
| | 0 | 8.6 | 25.8 | 8.7 | 300 | 50 | 1.5 | 6.1 | |
| | 5 | 8.6 | 25.8 | | | 55 | 1.25 | 6.1 | 7.1 |
| | 10 | 8.6 | 25.8 | | | | | | |
| | 15 | 8.6 | 25.2 | | | | | | |
| 18' * | 20 | 8.8 | 21.1 | 8.0 | 310 | | | | |
| | 25 | 2.30 | 14.2 | | | | | | |
| | 30 | 1.5 | 13.0 | | | | | | |
| | 35 | 1.5 | 10.2 | | | | | | |
| | 40 | 1.5 | 8.2 | | | | | | |
| | 45 | 1.5 | 6.8 | | | | | | |

Wind Speed and Direction 5 SW Cloud Cover 90%

Macrophyte Sampling Information

Additional Comments or Remarks

| | |
|--------------------|------------------------|
| | Date 6-30-84 |
| Lake CRYSTAL LK | Time 14:20 |
| County SHEB | Lake Acreage 150 |
| Storet Number | Maximum Depth 61 |
| Water Body Number | Air Temperature 60° |
| Station Location | |

| | |
|---------------------------|------------------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters 2.5 |
|---------------------------|------------------------------------|

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 | 8.1 | 22.3 | 8.7 | 275 | 10m | 0.1 | 11.6 | |
| | 1 m | 8.1 | 22.3 | | | 11 m | 0.1 | 10.4 | |
| | 2 | 8.1 | 22.3 | | | 12 m | 0.1 | 9.1 | |
| | 3 | 8.1 | 22.2 | | | 13 m | 0.1 | 7.9 | |
| | 4 | 8.1 | 22.2 | | | 14 m | 0.1 | 7.3 | 7.6 |
| | 5 | 8.2 | 21.3 | | | | | | |
| * | 6 | 8.4 | 20.0 | 8.7 | 275 | | | | |
| | 7 | 8.1 | 17.1 | | | | | | |
| | 8 | 3.6 | 14.8 | | | | | | |
| | 9 | 0.2 | 12.9 | | | | | | |

COND. → 275
← END OF CABLE

| | |
|---|--------------------|
| Wind Speed and Direction 0-7 mph SSE | Cloud Cover 90% |
|---|--------------------|

Macrophyte Sampling Information

Additional Comments or Remarks

High water levels due to recent rainfall

| | | | |
|-------------------|-----------|-----------------|-------|
| Date | | 4-24-86 | |
| Lake | CRYSTAL | Time | 14:30 |
| County | SHEBOYGAN | Lake Acreage | 152 |
| Storet Number | 603120 | Maximum Depth | 61 |
| Water Body Number | | Air Temperature | |

Station Location deepest part of LAKE

| | |
|---------------------------|-----------------------------|
| Light Penetration Station | Secchi Disc Depth in Meters |
| | 5.9m |

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 | 10.5 | 9.8 | 8.3 | 280 | | | | |
| | 10 | 10.5 | 9.5 | | | | | | |
| | 20 | 10.5 | 8.5 | | | | | | |
| | 30 | 10.5 | 8.0 | | | | | | |
| | 40 | 9.7 | 8.0 | | | | | | |
| | 50 | 0.2 | 4.0 | | | | | | |
| | 60 | 0 | 4.0 | 8.0 | 280 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | |
|--------------------------|-------------|
| Wind Speed and Direction | Cloud Cover |
| | |

Macrophyte Sampling Information

Additional Comments or Remarks
