

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 4/19/09 Time Of Day: 11:20 AM Lake /Site/waypoint: S1

Volunteers: Al Huefner, Gloria Ricker, Ray & Jean Travis, Steve Washburn,
Nick Buehler, Ed Wentland

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 50.8 °F
Wind Speed: 4.6 MPH
Wind Direction: 32 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner

Date: 4-19-09

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Minimal
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Lake Depth: 24 feet

Thermo cline: - feet 18.6 FT

Secchi Depth: 11-6 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS (Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- ❖ 11. Sample Bottles
 - 4- Chlorophyll Large Dark Glass (Lab)
 - 2-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 1-Thermo cline - Small Plastic P (colorimeter)
 - 1- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

✓ compass
✓ Troll Par Cord
✓ Camera
✓ 2 ft Rods

Water Measurements

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 4/19/09 Time Of Day: 11:50 AM Lake /Site/waypoint: M1

Volunteers: Al Huefner, Gloria Ricker, Ray & Jean Travis, Steve Washburn, Nick Buehler, Ed Wentland

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny FEW CLOUDS
 Sunny/Clouds
 Cloudy/Overcast

Air/Wind Conditions

Air Temp: 50.9 °F
Wind Speed: 5.5 MPH
Wind Direction: 40.0 Deg

Lake Water Conditions

Water Surface:

- Calm
 Ripple Waves
 Moderate Waves
 White Caps

Lake Level:

- Above Normal
 Normal
 Below Normal

Unusual Conditions:

- (In the past week)
 Thunder Storms
 Hail Storms
 Rain Storms
 High Winds
 Unusually Hot Weather Temp
 Unusually Cool Weather Temp
 NO RAIN WKS

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner
Date: 4-19-09

Lake Water Conditions (cont'd)

Water color:

- Clear
 Green
 Blue Green
 Brown
 Yellow
 Gray

Suspended Sediment:

- None
 Slight
 Moderate
 Substantial

Aquatic Weeds:

- None
 Slight
 Moderate
 Substantial

Water Smell/Odor:

- None
 Fishy
 Musty
 Rotten egg-like
 Septic-like

Other Substances:

- None
 Dead Fish
 Garbage
 Oil film
 Waterfowl
 Algae Mats
 Algae Clumps
 Sediment Clumps
 Leaves/Debris

Water Measurements

Lake Depth: 31 feet

Thermo cline: 16.6 feet None

Secchi Depth: 16.6 ft-tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
 Thermo cline Phosphorus
 Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

1. Rugged Reader
 2. Stylus
 3. Troll 9500 assembled
 4. Aquascope Viewer
 5. Van Dorn Grabber
 Measuring tape Line to attach to sampler
 Line to release at depth (both in white bucket)
 6. Air Thermometer/wind speed Instrument. (Anemometer)
 7. GPS(Check Batteries)
 8. Secchi Disk & Tape attached
 9. Cooler
 10. Ice Packs
 11. Sample Bottles
 4- Chlorophyll Large Dark Glass (Lab)
 2-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 1-Thermo cline - Small Plastic P (colorimeter)
 1- Bottom - Small Plastic P (colorimeter)
 12. Labels for bottle
 13. Chain of Custody Forms
 14. Sharpie pen
 15. Ball Point Pen
 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 4/19/09 Time Of Day: 12:21 PM Lake /Site/waypoint: N1

Volunteers: AL HUEFNER, GLORIA RICKER, RAYY JEAN TRAVIS, STEVE WASHBURN,
NICK BUEHLER, ED WENTLAND

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 51.8 °F
Wind Speed: 5.5 MPH
Wind Direction: 240 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: EMILIE B

Reviewed By: AL HUEFNER

Date: 4-19-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Minimal
- Slight
- Moderate
- Substantial

Aquatic Weeds:


- None
- Minimal
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl ✓
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

GULLS


Water Measurements

Lake Depth: 44.2 feet

Thermo cline: NONE feet

Secchi Depth: 26.0 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS (Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 4- Chlorophyll Large Dark Glass (Lab)
 - 2-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 1-Thermo cline - Small Plastic P (colorimeter)
 - 1- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 5/17/09 Time Of Day: 11:05 A.M. Lake /Site/waypoint: South Pond

Volunteers: PHIL OLSON, NICK BUEHLER, ERNIE BENOIT, ED WENTLAND
AL HUEFNER, RAY and JEAN TRAVIS

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

- The sky is:
- Clear/Sunny
 - Sunny/Clouds
 - Cloudy/Overcast

Air/Wind Conditions

Air Temp: 55 °F
 Wind Speed: 5.4 MPH
 Wind Direction: 350 ° Deg

Lake Water Conditions

- Water Surface:
- Calm
 - Ripple Waves
 - Moderate Waves
 - White Caps

- Lake Level:
- Above Normal
 - Normal
 - Below Normal

- Unusual Conditions:
(In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland
 Reviewed By: Al Huefner
 Date: 5-17-09

Lake Water Conditions (cont'd)

- Water color:
- Clear
 - Green
 - Blue Green
 - Brown
 - Yellow
 - Gray

- Suspended Sediment:
- None
 - Slight
 - Moderate
 - Substantial

- Aquatic Weeds:
- None
 - Slight
 - Moderate
 - Substantial

- Water Smell/Odor:
- None
 - Fishy
 - Musty
 - Rotten egg-like
 - Septic-like

- Other Substances:
- None
 - Dead Fish
 - Garbage
 - Oil film
 - Waterfowl
 - Algae Mats
 - Algae Clumps
 - Sediment Clumps
 - Leaves/Debris

POLLEN

Water Measurements

Lake Depth: 24.3 feet
 Thermo cline: 19 feet
 Secchi Depth: 10.3 ft+tenths
 Viewscope used for observation

- Samples Taken:
- Surface P N Chlorophyll
 - Thermo cline Phosphorus
 - Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
- Measuring tape Line to attach to sampler
- Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 5/17/09 Time Of Day: 11:50 A.M. Lake /Site/waypoint: Mid Pond

Volunteers: PHIL OLSON, NICK BUEHLER, ERNIE BENOIT, ED WENTLAND
AL HUEFNER, RAY and JEAN TRAVIS

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 54.7 °F
Wind Speed: 7.5 MPH
Wind Direction: 338 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner

Date: 5-17-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris
- POLLEN

Water Measurements

Lake Depth: 30.0 feet

Thermo cline: NONE feet

Secchi Depth: 17.0 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
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- 15. Ball Point Pen
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option 3 open 24hr

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 5/17/09 Time Of Day: 12:20 PM Lake /Site/waypoint: No. Pond

Volunteers: PHIL OLSON, NICK BUEHLER, ERNIE BENOIT, ED WENTLAND,
AL HUEFNER, RAY and JEAN TRAVIS

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 52.8 °F
Wind Speed: 5.4 MPH
Wind Direction: 344 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner
Date: 5-17-09

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris
- POLLEN

Water Measurements

Lake Depth: 40.9 feet

Thermo cline: 25.0 feet

Secchi Depth: 20.0 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 7/17/09 Time Of Day: 11:10 A.M. Lake /Site/waypoint: Soa Pond

Volunteers: Sarah Gustafson, Al Huefner, Ed Wentland, Phil Olson, Ray & Jean Travis, Gloria Ricker, Ernie Benoit

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

Clear/Sunny

Sunny/Clouds

Cloudy/Overcast

Air/Wind Conditions

Air Temp: 79.5 °F

Wind Speed: 0 MPH

Wind Direction: N/A Deg

Lake Water Conditions

Water Surface:

Calm

Ripple Waves

Moderate Waves

White Caps

Lake Level:

Above Normal

Normal

Below Normal

Unusual Conditions:

(In the past week)

Thunder Storms

Hail Storms

Rain Storms

High Winds

Unusually Hot Weather Temp

Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner

Date: 7-17-09

Lake Water Conditions (cont'd)

Water color:

Clear

Green

Blue Green

Brown

Yellow

Gray

Suspended Sediment:

None

Slight

Moderate

Substantial

Aquatic Weeds:

None

Slight

Moderate

Substantial

Water Smell/Odor:

None

Fishy

Musty

Rotten egg-like

Septic-like

Other Substances:

None

Dead Fish

Garbage

Oil film

Waterfowl

Algae Mats

Algae Clumps

Sediment Clumps

Leaves/Debris

Water Measurements

Lake Depth: 24.7 feet

Thermo cline: 18.0 feet

Secchi Depth: 10.2 ft+tenths

Viewscope used for observation

Samples Taken:

Surface P N Chlorophyll

Thermo cline Phosphorus

Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

1. Rugged Reader

2. Stylus

3. Troll 9500 assembled

4. Aquascope Viewer

5. Van Dorn Grabber

Measuring tape Line to attach to sampler

Line to release at depth (both in white bucket)

6. Air Thermometer/wind speed Instrument. (Anemometer)

7. GPS (Check Batteries)

8. Secchi Disk & Tape attached

9. Cooler

10. Ice Packs

11. Sample Bottles

3- Chlorophyll Large Dark Glass (Lab)

6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)

3-Thermo cline - Small Plastic P (colorimeter)

3- Bottom - Small Plastic P (colorimeter)

12. Labels for bottle

13. Chain of Custody Forms

14. Sharpie pen

15. Ball Point Pen

16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

~ 25 ft Pwr Cord
~ 2-1 Splitter
~ 50' cable
y storage wet Bulbs off

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 7/17/09 Time Of Day: 11:40 AM Lake /Site/waypoint: Mid Pond

Volunteers: Sarah GUSTAFSON, Al HUEFNER, Ed WENTLAND, Phil OLSON
Ray + Jean TRAVIS, Gloria Ricker, ERNIE BENOIT

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 85 °F
Wind Speed: 0 MPH
Wind Direction: N/A Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: E. Wentland

Reviewed By: Al Huefner

Date: 7-17-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 36.5 feet

Thermo cline: 20.0 feet

Secchi Depth: 19.0 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 7/17/09 Time Of Day: 12:10 PM Lake /Site/waypoint: No. Pond

Volunteers: SARAH GUSTAFSON, AL HUEFNER, ED WENTLAND, PHIL OLSON, RAY + JEAN TRAVIS, GLORIA RICKER, ERNIE BENOIT

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
 Sunny/Clouds
 Cloudy/Overcast

Air/Wind Conditions

Air Temp: 79.7 °F
Wind Speed: 2.6 MPH
Wind Direction: 300 Deg

Lake Water Conditions

Water Surface:

- Calm
 Ripple Waves (SLIGHT)
 Moderate Waves
 White Caps

Lake Level:

- Above Normal
 Normal
 Below Normal

Unusual Conditions:

- (In the past week)
 Thunder Storms
 Hail Storms
 Rain Storms
 High Winds
 Unusually Hot Weather Temp
 Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner
Date: 7-17-09

Lake Water Conditions (cont'd)

Water color:

- Clear
 Green
 Blue Green
 Brown
 Yellow
 Gray

Suspended Sediment:

- None
 Slight
 Moderate
 Substantial

Aquatic Weeds:

- None
 Slight
 Moderate
 Substantial

Water Smell/Odor:

- None
 Fishy
 Musty
 Rotten egg-like
 Septic-like

Other Substances:

- None
 Dead Fish
 Garbage
 Oil film
 Waterfowl
 Algae Mats
 Algae Clumps
 Sediment Clumps
 Leaves/Debris

Water Measurements

Lake Depth: 40.5 feet

Thermo cline: 18.0 feet

Secchi Depth: 16.5 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
 Thermo cline Phosphorus
 Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

1. Rugged Reader
 2. Stylus
 3. Troll 9500 assembled
 4. Aquascope Viewer
 5. Van Dorn Grabber
 Measuring tape Line to attach to sampler
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 6. Air Thermometer/wind speed Instrument. (Anemometer)
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 8. Secchi Disk & Tape attached
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11. Sample Bottles
 3- Chlorophyll Large Dark Glass (Lab)
 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 3-Thermo cline - Small Plastic P (colorimeter)
 3- Bottom - Small Plastic P (colorimeter)
 12. Labels for bottle
 13. Chain of Custody Forms
 14. Sharpie pen
 15. Ball Point Pen
 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 8/14/09 Time Of Day: 11:15 AM Lake /Site/waypoint: SO POND

Volunteers: Ed WENTLAND, SARAH GUSTAFSON, GLORIA RICHER
AL HUEFNER, RAY & JEAN TRAVIS, ERNIE BENOIT

Weather Conditions:

- The sky is:
- Clear/Sunny
 - Sunny/Clouds
 - Cloudy/Overcast

Air/Wind Conditions

Air Temp: 81.3 °F
 Wind Speed: 0.45 MPH
 Wind Direction: 142 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed WENTLAND
 Reviewed By: Al Huefner
 Date: 8-14-09

Do Not Skip Any Fields in Either The Header or The Body Area

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: ~~24.0~~ 24.0 feet

Thermo cline: 18.0 feet

Secchi Depth: 8.0 ft+tenths

- Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488 option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 8/14/09 Time Of Day: 11:45 AM Lake /Site/waypoint: Middle Pond

Volunteers: Ed Wentland, Sarah Gustafson, Gloria Ricker, Al Huefner, Ray + Jean Travis, Ernie Benoit

Do Not Skip Any Fields in Either The Header or The Body Area

Weather Conditions:

- The sky is:
- Clear/Sunny
 - Sunny/Clouds
 - Cloudy/Overcast

Air/Wind Conditions

Air Temp: 79.5 °F
Wind Speed: 0 MPH
Wind Direction: N/A Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland
Reviewed By: Al Huefner
Date: 8-14-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 29.5 feet

Thermo cline: 22.0 feet

Secchi Depth: 15.8 ft+tenths
 Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 8/14/09 Time Of Day: 12:17 PM Lake /Site/waypoint: No. Pond

Volunteers: Ed Wentland, Sarah Gustafson, Gloria Ricker,
Al Huefner, Ray & Jean Travis, Ernie Benoit

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
 Sunny/Clouds
 Cloudy/Overcast

Air/Wind Conditions

Air Temp: 81.2 °F
Wind Speed: 0.7 MPH
Wind Direction: 186 Deg

Lake Water Conditions

Water Surface:

- Calm
 Ripple Waves
 Moderate Waves
 White Caps

Lake Level:

- Above Normal
 Normal
 Below Normal

Unusual Conditions:

(In the past week)

- Thunder Storms
 Hail Storms
 Rain Storms
 High Winds
 Unusually Hot Weather Temp
 Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: Al Huefner

Date: 8-14-09

Lake Water Conditions (cont'd)

Water color:

- Clear
 Green
 Blue Green
 Brown
 Yellow
 Gray

Suspended Sediment:

- None
 Slight
 Moderate
 Substantial

Aquatic Weeds:

- None
 Slight
 Moderate
 Substantial

Water Smell/Odor:

- None
 Fishy
 Musty
 Rotten egg-like
 Septic-like

Other Substances:

- None
 Dead Fish
 Garbage
 Oil film
 Waterfowl
 Algae Mats
 Algae Clumps
 Sediment Clumps
 Leaves/Debris

Water Measurements

Lake Depth: 38.2 feet

Thermo cline: 18.0 feet

Secchi Depth: 11.1 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
 Thermo cline Phosphorus
 Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

1. Rugged Reader
 2. Stylus
 3. Troll 9500 assembled
 4. Aquascope Viewer
 5. Van Dorn Grabber
 Measuring tape Line to attach to sampler
 Line to release at depth (both in white bucket)
 6. Air Thermometer/wind speed Instrument. (Anemometer)
 7. GPS(Check Batteries)
 8. Secchi Disk & Tape attached
 9. Cooler
 10. Ice Packs
11. Sample Bottles
 3- Chlorophyll Large Dark Glass (Lab)
 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 3-Thermo cline - Small Plastic P (colorimeter)
 3- Bottom - Small Plastic P (colorimeter)
 12. Labels for bottle
 13. Chain of Custody Forms
 14. Sharpie pen
 15. Ball Point Pen
 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 9/19/09 Time Of Day: 11:00 AM Lake /Site/waypoint: S1

Volunteers: Raya Sean Travis, Gloria Ricker, Al Huefner
Phil Olson, Steve Washburn, Ernie Benoit

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 62 °F
Wind Speed: 1-3 MPH
Wind Direction: W Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

None

Form Quality Signatures

Filled In By: Sean

Reviewed By: Al Huefner

Date: 9-20-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 24 feet

Thermo cline: None feet

Secchi Depth: 8.6 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS (Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 9/19/09 Time Of Day: 11:23 AM Lake /Site/waypoint: M1

Volunteers: RAYA JEAN TRAVIS, Gloria Pickler, Al Huefner, Phil Olson, Steve Washburn, Ernie Bewalt

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 72 °F
Wind Speed: 7 MPH
Wind Direction: E Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Jean
Reviewed By: Al Huefner
Date: 9-20-09

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 34 feet

Thermo cline: None feet

Secchi Depth: 17 ft+tenths
 Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA - 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: 9/19/09 Time Of Day: 11:50 AM Lake /Site/waypoint: NI

Volunteers: Ray & Jean TRAVIS, Gloria Pickett, 171 Huffner
Phil Olson, Steve Washburn, Fernie Pruitt

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 63 °F
Wind Speed: 3.2 MPH
Wind Direction: W Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

None

Form Quality Signatures

Filled In By: Jean

Reviewed By: Phil Olson

Date: 9-20-09

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 35 feet

Thermo cline: 31 feet ^{no sample}

Secchi Depth: 14.8 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: Oct. 20, '09 Time Of Day: 11:07 A.M. Lake /Site/waypoint: So. Pond

Volunteers: NICK BUEHLER, ERNIE BENOIT, PHIL OLSON,
JEAN TRAVIS, AL HAEFNER, ED WENTLAND

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 51.8 °F
Wind Speed: 0.8 MPH
Wind Direction: 36 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: _____
Date: _____

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 24.0 feet

Thermo cline: N/A feet

Secchi Depth: 13.6 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: Oct. 20 '09 Time Of Day: 11:30 AM Lake /Site/waypoint: Mida Pond

Volunteers: Nick BUEHLER, ERNIE BENOIT, PHIL OLSON
Jean TRAVIS, AL HUEFNER, Ed WENTLAND

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 54.4 °F
Wind Speed: 5 MPH
Wind Direction: 46 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

(In the past week)

- Thunder Storms
- Hail Storms
- Rain Storms
- High Winds
- Unusually Hot Weather Temp
- Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: _____

Date: _____

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 30.0 feet

Thermo cline: N/A feet

Secchi Depth: 20.5 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr

Lake Field Data Sheet WLA – 2009 Water Quality Monitoring Data

Use one sheet for each waypoint

Serial # of Troll 9500 48077

Date: Oct. 20 '09 Time Of Day: 11:55 AM Lake /Site/waypoint: No. Pond

Volunteers: NICK BUEHLER, ERNIE BENOIT, PHIL OLSON
JEAN TRAVIS, AL HUEFNER, Ed WENTLAND

**Do Not Skip Any Fields in Either
The Header or The Body Area**

Weather Conditions:

The sky is:

- Clear/Sunny
- Sunny/Clouds
- Cloudy/Overcast

Air/Wind Conditions

Air Temp: 54.4 °F
Wind Speed: 2.3 MPH
Wind Direction: 195 Deg

Lake Water Conditions

Water Surface:

- Calm
- Ripple Waves (slight)
- Moderate Waves
- White Caps

Lake Level:

- Above Normal
- Normal
- Below Normal

Unusual Conditions:

- (In the past week)
- Thunder Storms
 - Hail Storms
 - Rain Storms
 - High Winds
 - Unusually Hot Weather Temp
 - Unusually Cool Weather Temp

Form Quality Signatures

Filled In By: Ed Wentland

Reviewed By: _____
Date: _____

Lake Water Conditions (cont'd)

Water color:

- Clear
- Green
- Blue Green
- Brown
- Yellow
- Gray

Suspended Sediment:

- None
- Slight
- Moderate
- Substantial

Aquatic Weeds:

- None
- Slight
- Moderate
- Substantial

Water Smell/Odor:

- None
- Fishy
- Musty
- Rotten egg-like
- Septic-like

Other Substances:

- None
- Dead Fish
- Garbage
- Oil film
- Waterfowl
- Algae Mats
- Algae Clumps
- Sediment Clumps
- Leaves/Debris

Water Measurements

Lake Depth: 39.0 feet

Thermo cline: N/A feet

Secchi Depth: 23.2 ft+tenths

Viewscope used for observation

Samples Taken:

- Surface P N Chlorophyll
- Thermo cline Phosphorus
- Bottom Phosphorus

Troll: Readings saved in Troll

Equipment Pre-Check Sheet

- 1. Rugged Reader
- 2. Stylus
- 3. Troll 9500 assembled
- 4. Aquascope Viewer
- 5. Van Dorn Grabber
 - Measuring tape Line to attach to sampler
 - Line to release at depth (both in white bucket)
- 6. Air Thermometer/wind speed Instrument. (Anemometer)
- 7. GPS(Check Batteries)
- 8. Secchi Disk & Tape attached
- 9. Cooler
- 10. Ice Packs
- 11. Sample Bottles
 - 3- Chlorophyll Large Dark Glass (Lab)
 - 6-Surface - Small Plastic (Phos/Nitrates)(colorimeter)
 - 3-Thermo cline - Small Plastic P (colorimeter)
 - 3- Bottom - Small Plastic P (colorimeter)
- 12. Labels for bottle
- 13. Chain of Custody Forms
- 14. Sharpie pen
- 15. Ball Point Pen
- 16. Anchor & 200ft Anchor Line

In-Situ tech support 800-446-7488
option 3 open 24hr