

Lake Sampling Field Data Sheet (Tier 1)

Utah Water Watch



Site Name: _____ Date Sampled: _____ Time Sampled: _____

Field Monitor Name(s): _____

UWW ID: _____ Hours Sampling/traveling: _____ Miles traveled: _____

UWW Site ID: _____ # of participants: _____ Decontamination: Yes No

FIELD OBSERVATIONS (Circle one for each):

| Water Odor | Water Surface | Water Clarity | Water Condition | Water Color | | Dead Fish | Current Weather |
|--------------|----------------|---------------|-----------------|--------------------------------|----------|-----------|-----------------|
| | | | | Normal | Abnormal | | |
| None | Clear | Clear | Calm | Normal | Abnormal | None | Clear |
| Chlorine Oil | Scummy | Cloudy/Murky | Ripples | <i>(also circle one below)</i> | | 1 to 3 | Cloudy |
| Musky Sewage | Foamy | Turbid | Small Waves | Clear | Brownish | 4 to 10 | Overcast |
| Fishy Rotten | Natural Debris | | Moderate Waves | Greenish | Reddish | > 10 | Light Rain |
| Egg | Trash | | Whitecaps | Blue | Orange | | Heavy Rain |
| | Sheen/ Oily | | | | | | Snow |

Recent Rainfall (inches) past 24hrs _____

Comments: _____

SAMPLING:

| Location | Temperature °C | pH | Secchi Depth (m) | Total Depth (m) | Equipment |
|-----------|----------------|-------|------------------|-----------------|---------------------|
| Inshore | | | | | <i>(select one)</i> |
| Dock/Pier | Air: _____ | _____ | _____ | _____ | Secchi Disk |
| Boat | Water: _____ | _____ | _____ | _____ | Turbidity Tube |

Note: Users of turbidity tubes, be sure to convert to meters from centimeters by dividing by 100 (e.g. 10cm = 0.10m)

COMMUNITY FISHING INFORMATION:

| Species caught (#) | Cormorants Observed | Number of people fishing | Hours spent fishing | (Survey 3 fisherpeople in the immediate area) |
|-------------------------------------|--------------------------|--------------------------|---------------------|-----------------------------------------------|
| Bluegill _____ Wiper (hybrid) _____ | _____ | _____ | _____ | |
| Carp _____ Rainbow Trout _____ | _____ | _____ | _____ | |
| Catfish _____ Bass _____ | _____ | _____ | _____ | |
| Other _____ | Pelicans Observed | _____ | _____ | |

Algal Monitoring:

| Algae Observed in lake | Types Observed | Harmful bloom suspected? | bloomWatch / UWW contacted? | Comments (include all areas surveyed): |
|------------------------|----------------------------------------------|--------------------------|-----------------------------|----------------------------------------|
| Yes No | Filamentous Water Column Floating Scum | Yes No | Yes No | _____ |

E. coli BACTERIA - (Coliscan Easygel Method): (MONTHLY – May through Sept.)

Incubation start time: _____ Total hours: _____ Incubation temp °C: _____

$$\text{Concentration} = \left(\frac{100}{\text{Sample size in mL}} \right) \times \left(\frac{\text{colonies counted}}{100 \text{ mL}} \right) = \frac{\text{cfu}}{100 \text{ mL}}$$

Reading #1 $\left(\frac{100}{\text{Sample size in mL}} \right) \times (\text{colonies counted}) = \frac{\text{cfu}}{100 \text{ mL}}$

Reading #2 $\left(\frac{100}{\text{Sample size in mL}} \right) \times (\text{colonies counted}) = \frac{\text{cfu}}{100 \text{ mL}}$

$$\text{Average Concentration} = \frac{(\text{Reading \#1} + \text{Reading \#2})}{2}$$

Average E. coli (cfu/100mL): _____

If average is greater than 400 cfu/100 mL, contact UWW

*The "sample size in mL" you record will be 1, 2, 3, 4 or 5 (# of droppers you add)

**Be sure you record only the dark blue and purple colonies that you count.