# Stream Field Datasheet (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, unless instructed otherwise)*:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Stream Flow:** | Flood | High/Runoff | Normal/Baseflow | Low | No flow | | |
| **Water Clarity:** | Clear | Cloudy/Milky | Turbid | | | | |
| **Water Surface:** | Sheen/Oily | Trash | Natural Debris | Foamy | Scummy | Clear | |
| **Water Color:** | Clear | Brownish | Greenish | Reddish | Blue | Orange | |
| **Site Odor:** | None | Chlorine | Sewage | Fishy | Musky | Oil | Rotten Egg |
| **Algae Cover:** | Abundant Filamentous | Thick Substrate Layer | Little Filamentous | Moderate Substrate Layer | Little/Rare | | |
| **Dead Fish:** | None | 1 to 3 | 4 to 10 | >10 | | | |
| **Current Weather:** | Clear | Partly Cloudy | Cloudy/Overcast | Light Rain | Heavy Rain | Snow | |
| **Photo Point:** *(Circle one for each photo taken):* | | Upstream | Downstream | | | | |

**Provide short description of each photo:**

_____

_____

_____

**Rainfall in past 24 hours (inches)** _____

**Comments:** _____

_____

_____

**FIELD SAMPLES:**

**Location** *(circle one):* Center Side

**Habitat** *(circle one):* Pool Run Riffle

**Continued on back**

| Parameter | Reading (measurement) | Unit | Allowable Range in Utah |
|---|---|---|---|
| **Air Temperature** | | °C | |
| **Water Temperature** | | °C | Max temp for warm water fish = 27 °C<br>Max temp for cold water fish = 20 °C |
| **pH** | | None | 6.5-9.0 |
| **Dissolved Oxygen** | | mg/L | Min for warm water fish = 5.5 mg/L<br>Min for cold water fish = 6.5 mg/L |
| **Turbidity** | | cm (convert to NTUs using chart) | Turbidity should not change more than 10 NTUs |

**ALGAL MONITORING** *(Circle one for each)*:

| ***Algae observed in stream?*** | ***Yes*** | ***No*** | |
|---|---|---|---|
| ***Types Observed*** | *Floating Scum* | *Water column* | *Filamentous* |
| ***Harmful bloom suspected?*** | *Yes* | *No* | |
| ***Bloomwatch / UWW contacted?*** | *Yes* | *No* | |

**Comments** *(location of blooms and percent cover)*:

_____

_____

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

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

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

**Reading #1** $\left(\frac{100}{\quad}\right) \times (\quad) = \frac{cfu}{100\ mL}$

**Reading #2** $\left(\frac{100}{\quad}\right) \times (\quad) = \frac{cfu}{100\ mL}$

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

**Average E. coli = _____ cfu / 100 ml**

*NOTE: If average is greater than 400 cfu / 100 ml, contact UWW.*