

For Office Use Only
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 Date Received: _____
 Date Approved: _____
 Approved by (name): _____



THE MEADOWS CENTER
 FOR WATER AND THE ENVIRONMENT
 TEXAS STATE UNIVERSITY

TEXAS STREAM TEAM

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 Send to: Texas Stream Team
 The Meadows Center - Texas State University
 601 University Drive
 San Marcos, TX 78666-4616

CORE ENVIRONMENTAL MONITORING FORM

PLEASE PRINT LEGIBLY

Sample Date
 | | | | | | | |
 M M D D Y Y Y Y

Sample Time (military)
 | | | | | |
 H H M M

Citizen Scientist's Name _____

Site Description _____

Site ID #
 | | | | | |

Sample Depth (meters)
 | | | | | |
 (not total depth)

Group or Affiliation _____

Core monitoring type conducted Standard Core Probe Core Other

Instrument Calibration: Conducted within 24 hours of sampling. Store standard solutions and calibrate at room temperature.

Calibration	Date	Time	Standard Value	Standard Temp (°C)	Pre-Test Calibration Initial Reading	Calibrated To	Post-Test Calibration Initial Reading
Conductivity/Salinity							
Dissolved Oxygen							
pH							

Field Observations:

FLOW SEVERITY: 1-no flow 2-low 3-normal 4-flood 5-high 6-dry

ALGAE: 1-absent 2-rare (<25%) 3-common (26-50%) 4-abundant (51-75%) 5-dominant (>75%)

WATER SURFACE: 1-clear 2-scum 3-foam 4-debris 5-sheen

WATER CONDITIONS: 1-calm 2-ripples 3-waves 4-white caps

PRESENT WEATHER: 1-clear 2-cloudy 3-overcast 4-rain

DAYS SINCE LAST SIGNIFICANT PRECIPITATION (runoff)

RAINFALL ACCUMULATION (inches within the last 3 days)

WATER COLOR: 1-no color 2-light green 3-dark green 4-tan 5-red 6-green/brown 7-black

WATER CLARITY: 1-clear 2-cloudy 3-turbid

WATER ODOR: 1-none 2-oil 3-acrid (pungent) 4-sewage 5-rotten egg 6-fishy 7-musky

Field Quality Control:

Was a QC session conducted for this sampling event? Yes No

Core Tests and Measurements:

AIR TEMPERATURE (°C)

TOTAL DEPTH (meters)

SECCHI DISK TRANSPARENCY (meters)
 Average Appears _____ Disappears _____

TRANSPARENCY TUBE (meters)

WATER TEMPERATURE (°C)

CONDUCTIVITY (µS/cm)

DISSOLVED OXYGEN (mg/L)
 Average 1st titration _____ 2nd titration _____

pH (standard units)

Presence of Litter:

MONOFILAMENT REMOVED Yes No
 Amount (please circle): 0-5 ft 6-15 ft 16 ft+

NURDLE SURVEY Yes No

TRASH REMOVED Yes No

Please check Yes or No

Coastal Area Salinity Tests and Observations:

SALINITY (ppt)

TIDE STAGE: 1-low 2-falling 3-slack 4-rising 5-high

Comments:

TOTAL TIME SPENT SAMPLING AND TRAVELING

Minutes

TOTAL ROUNDTRIP DISTANCE TRAVELED

Miles

TOTAL NUMBER OF PARTICIPANTS

I certify that all procedures, including the items listed in the Quality Control Checklist on the following page and in the manual, have been followed.

CERTIFIED CITIZEN SCIENTIST'S SIGNATURE

DATE

DATA COORDINATOR'S SIGNATURE

DATE

CORE FIELD QUALITY CONTROL CHECKLIST

The following Field Quality Control Checklist is used by the Texas Stream Team Citizen Scientist to verify that the data are collected using approved protocols. Please check all boxes that apply to this sampling event before submitting this form.

General Procedures

- Gloves were worn or hand sanitizer was applied throughout.
- None of the reagents used for testing were expired.
- All reagents were stored at room temperature or in an environment protected from extreme weather prior to use.
- Sampling was conducted at approximately the same time/day as previous sampling events at this site, preferably before noon or after 4pm (16:00).
- Monitoring sample was collected from the centroid of flow with minimal streambed disturbance.
- All equipment was rinsed twice with sample water before the test was conducted.
- All equipment was rinsed twice with deionized water after testing was conducted.
- All relevant measurements were recorded in appropriate fields on monitoring form.

Field Observations

- Algae:** Recorded algae observed on the water surface and below the water surface.
- Water Color:** Observed water color in a plastic cup or bucket with a white background.
- Water Clarity:** Observed the relative cloudiness of the water from bridge or banks.
- Water Odor:** Tested by wafting from plastic cup or bucket.
- Present Weather:** Marked cloudy if there is a least one cloud in the sky.

Instrument Calibration

- The instruments/meters were calibrated within 24 hours of monitoring.
- Calibrations were conducted in a temperature-controlled environment before sampling.
- All meters were held in center of beaker not touching the bottom or sides and stirred for 2 minutes before recording the reading.
- All meters were turned on/off while submerged in solution.
- Meters were rinsed with DI water and caps were replaced immediately after use.
- Pre- and post-test calibration tests were conducted and the difference between the "Calibrated to" value of the pre-test calibration and "Post-test calibration initial reading" is within the error limit listed below for each parameter:

Parameter	Error limit
Conductivity	± 20% of calibration standard solution
Salinity	± 1 ppt
Dissolved Oxygen (Probe Core only)	± 0.5 mg/L
pH (Probe Core only)	± 0.5 μ

Core Tests and Measurements

- Sample Depth:** The sample depth is either 0.3 m or one third of the total depth.
- Air Temperature:** Thermometer placed in shade and values reported in degrees Celsius.
- Total Depth/Secchi Disk Transparency/Transparency Tube:** Values reported in meters.
- Secchi Disk Transparency:** Ensure the average of two measurements is reported, the measurement when the disk disappears and appears. Record average then lower to bottom to get total depth reading. If water is too swift to get reading, make note in comments section.
- Water Temperature:** If using thermometer, air temperature was measured first and reported in degrees Celsius.
- Dissolved Oxygen:**
 - Bottles rinsed 2X with sample water and titration vials rinsed 2X with fixed solution.
 - Bottles filled so the meniscus is resting on the line.
 - Lids capped underwater with no air bubbles.
 - Duplicate sample conducted and titration values within 0.5 mg/L of each other.
- pH:**
 - The blue cap on glass pH vial removed before viewing and held up against a white background.
 - The test tube was filled so the meniscus is resting on the line.
- Conductivity:**
 - Values recorded in microsiemens per centimeter (μ S/cm).
- Reagent bottles completely inverted when adding drops to prevent interference from air bubbles.

Refractometer

- Was time allowed for the temperature of the sample water to stabilize before the salinity measurement was recorded?
- Was instrument held up to a light source when gathering the salinity measurement