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



Texas Stream Team

 ${\bf Email\ to: TxStream Team@txstate.edu}$

Send to: Texas Stream Team

The Meadows Center - Texas State University

DATE

601 University Drive San Marcos, TX 78666-4616

CORE ENVIRONMENTAL MONITORING FORM PLEASE PRINT LEGIBLY

Sample Date	Sample Time	(military)	Commun	ity Scientist's N				
				Site Descri	ption	Training		
M M D D Y Y	Y Y H H M	M						
Site ID # 1 0 0 0 1	Sample Depth		Co	ore monitoring condu		☐ Standard Core	☐ Probe C	ore
Instrument Calibration:	Conducted within 24 ho	urs of samplir	ng. Store standard	solutions and c			ure.	
Calibration	Date	Time	Standard Value	Standard Temp (°C)		e-Test Calibration Initial Reading	Calibrated To	Post-Test Calibration Initial Reading
Conductivity/Salinity								
Dissolved Oxygen								
рН								
Field Observations:				Core Tests and	d Mea	surements:		
FLOW SE	VERITY: 1-no flow 2- 5-high 6-dry	low 3-norma	al 4-flood		AIR TE	EMPERATURE (°C)		
I I I	1-absent 2-rare (<25%) 4-abundant (51-75%) 5-				SECC	HI DISCTRANSPAR	ENCY (meters)	
	URFACE: 1-clear 2-scu	•		Average	Disap	pears	Appears _	
WATER C	ONDITIONS: 1-calm 2		aves		TOTAL	_ DEPTH (meters)		
4-white caps PRESENT WEATHER: 1-clear 2-cloudy 3-overcast 4-rain				TRANSPARENCYTUBE (meters)				
DAYS SING	WATER TEMPERATURE (°C)							
RAINFALL ACCUMULATION (inches within the last 3 days)				DISSOLVED OXYGEN (mg/L)				
WATER COLOR: 1-no color 2-light green 3-dark green 4-tan 5-red 6-green/brown 7-black				Average	1st titr	ation	2nd titration	on
WATER CI	LARITY: 1-clear 2-cloud	dy 3-turbid			COND	DUCTIVITY (µS/cm)		
WATER OI	DOR: 1-none 2-oil 3-a 5-rotten egg 6-f				pH (st	andard units)		
Coastal Area Salinity Te		, , , , , , ,	1					
	SALINITY (ppth	1)		TIDE STAG	iE: 1-l	ow 2-falling 3-slad	ck 4-rising 5-h	igh
Comments:								
TOTAL TIME SPENT SAN	MPLING AND TRAVELIN	G	TOTAL ROUNE	OTRIP DISTANC	ETRA\	VELED	TOTAL NUMB	ER OF PARTICIPANTS
Minutes				Miles				
I certify that all procedure	s. including the items lis	ited in the Ou	ality Control Check	dist on the follo	wina n	page and in the man	ual, have been f	ollowed.
. 11. a., a.a. an procedure	-,o.aag the item 10		, 00		9			

CERTIFIED COMMUNITY SCIENTIST'S SIGNATURE

CORE FIELD QUALITY CONTROL CHECKLIST

Community scientists are required to check all applicable boxes for each monitoring event to verify the procedures are followed. If the monitoring event fulfills a Field Audit Session, the trainer must observe the community scientist conducting the monitoring event and document observations in the comments field. The trainer will also sign to verify Field Audit Session was

General Procedures	cone	ducted.	,						
Gloves were worn or hand sanitizer	was applied throughout.								
□ weather prior to use. Sampling was									
☐ before noon or after 4pm. Monitorin	ng sample was collected from th	ne centroid of flow with minimal streambed	disturbance.						
☐ All equipment was rinsed 2X with sa	ample water before the test wa	s conducted.							
☐ All equipment was rinsed 2X with de	eionized water after testing was	s conducted.							
Field Observations									
☐ Algae: Recorded algae observed on	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									
☐ Water Odor: Tested by wafting from	n plastic cup or bucket.								
☐ Present Weather: Marked cloudy if	there is at least one cloud in th	e sky.							
Instrument Calibration	atad within 24 hours of manita	ring and conducted in a tapaparature controll	ad an irannant						
		ring and conducted in a temperature-controlle							
	•	r sides and stirred for 2 minutes before reco	raing the reading.						
All meters were turned on/off while	•								
Meters were rinsed with DI water a	·	,							
Pre- and post-test calibration were c Calibration Initial Reading" is within		etween the "Calibrated To" value of the pre-to- each parameter:	est calibration and "Post-Test						
	Parameter	Error limit							
Condu	uctivity	± 20% of calibration standard solution							
Salinit	ty	± 1 ppt							
Disso	lved Oxygen (Standard Core)	± 0.5 mg/L							
Disso	lved Oxygen (Probe Core)	± 6% saturation							
pH (Pı	robe Core only)	± 0.5 s.u.							
Core Tests and Measurements		,							
☐ Sample Depth: The sample depth is	s either 0.3 m or 1/3 of the total	depth.							
☐ Air Temperature: Thermometer place	ed in shade.								
☐ Transparency Tube: Be careful to not	t scrape the streambed or distri	ub or kick up sediment.							
Secchi Disc Transparency: Secchi lo	wered in water shadded from t	he sun. Record average then lower to botton	n to get total depth reading.						
Water Temperature: If using thermo									
Dissolved Oxygen:	,								
☐ Bottles rinsed 2X with sample water	and titration vials rinsed 2X with	n fixed solution.							
☐ Bottles filled so the meniscus is resti	ng on the line.								
☐ Lids capped underwater with no air b	oubbles.								
☐ Duplicate sample conducted and titra	ation values within 0.5 mg/L of e	each other.							
☐ Chemical reagent bottles completely	inverted when adding drops to	prevent interference from air bubbles.							
pH:									
☐ The pH vial cap was removed and the ☐ The amount of sample water needed ☐ The test tube was filled so the menis	I in the test tube was determine	nite background before viewing. ed based on the type of pH viewer being use	ed.						
Refractometer (tidaly-influenced		ilize before the salinity measurement was red	corded						
☐ Instrument was held up to a light so	•	, ,							
Field Audit Session		•							
	certified trainer ONLY if a Field	d Audit Session was conducted. Field Audi	it Sessions are required at a						
Legible Trainer Full Name:		Trainer Signature:							

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				Site Descri	ption	Training		
M M D D Y Y	Y Y H H M	M						
Site ID # 1 0 0 0 1	Sample Depth		Co	ore monitoring condu		☐ Standard Core	☐ Probe C	ore
Instrument Calibration:	Conducted within 24 ho	urs of samplir	ng. Store standard	solutions and c			ure.	
Calibration	Date	Time	Standard Value	Standard Temp (°C)		e-Test Calibration Initial Reading	Calibrated To	Post-Test Calibration Initial Reading
Conductivity/Salinity								
Dissolved Oxygen								
рН								
Field Observations:				Core Tests and	d Mea	surements:		
FLOW SE	VERITY: 1-no flow 2- 5-high 6-dry	low 3-norma	al 4-flood		AIR TE	EMPERATURE (°C)		
I I I	1-absent 2-rare (<25%) 4-abundant (51-75%) 5-				SECC	HI DISCTRANSPAR	ENCY (meters)	
	URFACE: 1-clear 2-scu	•		Average	Disap	pears	Appears _	
WATER C	ONDITIONS: 1-calm 2		aves		TOTAL	_ DEPTH (meters)		
4-white caps PRESENT WEATHER: 1-clear 2-cloudy 3-overcast 4-rain				TRANSPARENCYTUBE (meters)				
DAYS SING	WATER TEMPERATURE (°C)							
RAINFALL ACCUMULATION (inches within the last 3 days)				DISSOLVED OXYGEN (mg/L)				
WATER COLOR: 1-no color 2-light green 3-dark green 4-tan 5-red 6-green/brown 7-black				Average	1st titr	ation	2nd titration	on
WATER CI	LARITY: 1-clear 2-cloud	dy 3-turbid			COND	DUCTIVITY (µS/cm)		
WATER OI	DOR: 1-none 2-oil 3-a 5-rotten egg 6-f				pH (st	andard units)		
Coastal Area Salinity Te		, , , , , , ,	1					
	SALINITY (ppth	1)		TIDE STAG	iE: 1-l	ow 2-falling 3-slad	ck 4-rising 5-h	igh
Comments:								
TOTAL TIME SPENT SAN	MPLING AND TRAVELIN	G	TOTAL ROUNE	OTRIP DISTANC	ETRA\	VELED	TOTAL NUMB	ER OF PARTICIPANTS
Minutes				Miles				
I certify that all procedure	s. including the items lis	ited in the Ou	ality Control Check	dist on the follo	wina n	page and in the man	ual, have been f	ollowed.
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Ca	neral Procedures	con	ducted.	, , , , , , , , , , , , , , , , , , , ,					
		nitizer was applied throughout.							
	weather prior to use. Samplin	ng was conducted at approximately the	e same time/day as previous sampling event	s at this site, preferably					
	before noon or after 4pm. Mo	onitoring sample was collected from the	ne centroid of flow with minimal streambed	disturbance.					
	All equipment was rinsed 2X	with sample water before the test wa	s conducted.						
	All equipment was rinsed 2X	with deionized water after testing was	s conducted.						
Fie	Field Observations								
	Water Clarity: Observed the	relative cloudiness of the water from	bridge or banks.						
	Water Odor: Tested by wafting	ng from plastic cup or bucket.							
	Present Weather: Marked cla	oudy if there is at least one cloud in th	e sky.						
Ins	trument Calibration								
	The instruments/meters were	e calibrated within 24 hours of monitor	ring and conducted in a temperature-controlle	ed environment.					
	All meters were held in center	er of beaker not touching the bottom o	r sides and stirred for 2 minutes before reco	rding the reading.					
	All meters were turned on/off	f while submerged in solution.							
	Meters were rinsed with DI v	vater and caps were replaced immedia	ately after use.						
		were conducted and the difference be within the error limit listed below for e	etween the "Calibrated To" value of the pre-teach parameter:	est calibration and "Post-Test					
		Parameter	Error limit						
		Conductivity	± 20% of calibration standard solution						
		Salinity	± 1 ppt						
		Dissolved Oxygen (Standard Core)	± 0.5 mg/L						
		Dissolved Oxygen (Probe Core)	± 6% saturation						
		pH (Probe Core only)	± 0.5 s.u.						
Cor	re Tests and Measuremen	,							
		lepth is either 0.3 m or 1/3 of the total	depth.						
	Air Temperature: Thermomete								
		Il to not scrape the streambed or distri	uh or kick un sediment						
		'	he sun. Record average then lower to botton	n to get total denth reading					
_		hermometer, air temperature was me		r to got total doptil rodaling.					
_	solved Oxygen:	inermenter, an temperature was me	asured mst.						
		water and titration vials rinsed 2X witl	n fixed solution						
	Bottles filled so the meniscus								
	ids capped underwater with i	_							
			each other.						
	☐ Duplicate sample conducted and titration values within 0.5 mg/L of each other. ☐ Chemical reagent bottles completely inverted when adding drops to prevent interference from air bubbles.								
pH:	onennour rougent sounds com	protor, more and more adding arope to	provent internet in all sussions.						
	Γhe amount of sample water r	and the tube was held up against a wheeded in the test tube was determined meniscus is resting on the line.	nite background before viewing. ed based on the type of pH viewer being use	ed.					
	fractometer (tidaly-influ Time was allowed for the tem		ilize before the salinity measurement was re	corded.					
		ight source when gathering the salinit	, ,						
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Thi		t by a certified trainer ONLY if a Field	d Audit Session was conducted. Field Audi	it Sessions are required at a					
	iible Trainer Full Name:		Trainer Signature:						

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Calibration	Date	Time	Standard Value	Standard Temp (°C)		e-Test Calibration Initial Reading	Calibrated To	Post-Test Calibration Initial Reading
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Field Observations:				Core Tests and	d Mea	surements:		
FLOW SE	VERITY: 1-no flow 2- 5-high 6-dry	low 3-norma	al 4-flood		AIR TE	EMPERATURE (°C)		
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Fie	Field Observations								
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	Water Odor: Tested by wafting	ng from plastic cup or bucket.							
	Present Weather: Marked cla	oudy if there is at least one cloud in th	e sky.						
Ins	trument Calibration								
	The instruments/meters were	e calibrated within 24 hours of monitor	ring and conducted in a temperature-controlle	ed environment.					
	All meters were held in center	er of beaker not touching the bottom o	r sides and stirred for 2 minutes before reco	rding the reading.					
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		Salinity	± 1 ppt						
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		Dissolved Oxygen (Probe Core)	± 6% saturation						
		pH (Probe Core only)	± 0.5 s.u.						
Cor	re Tests and Measuremen	,							
		lepth is either 0.3 m or 1/3 of the total	depth.						
	Air Temperature: Thermomete								
		Il to not scrape the streambed or distri	uh or kick un sediment						
		'	he sun. Record average then lower to botton	n to get total denth reading					
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	Bottles filled so the meniscus								
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		ight source when gathering the salinit	, ,						
_	Field Audit Session								
Thi		t by a certified trainer ONLY if a Field	d Audit Session was conducted. Field Audi	it Sessions are required at a					
	iible Trainer Full Name:		Trainer Signature:						

Trainer Comments:



TEXAS STREAM TEAM

STANDARD CORE SALINITY FIELD GUIDE - MONITORING PROCEDURES

Please note, this Field Guide is for monitoring salt or brackish waters primarily in coastal areas with a refractometer.

Equipment Needed

- Standard Core Kit (with unexpired reagents)
- Bucket
- Deionized (DI) Water or salinity calibration solution of known concentration
- Waste Bin
- Gloves or Hand Sanitizer
- Vee Gee STX-3 Refractometer
- Transparency Tube (optional for shallow waters)

At Site

- 1. Record *Field Observations* and *Comments* on Core Environmental Monitoring Form.
- 2. Hang thermometer out of direct sunlight, wait 2-3 minutes; record $Air\ Temperature$ to nearest 0.5 $^{\circ}$ C.
- 3. Measure *Transparency* by selecting a method below that is most applicable to your monitoring site:
 - A. <u>Secchi Disc Transparency</u> for deeper water, Lower Secchi disc until it disappears, mark depth, then raise Secchi disc until barely visible, and mark depth again. Average both depth readings and record to nearest 0.1 m.
 - B. <u>Transparency Tube</u> for shallow waters:
 - 1. Rinse bucket and tube 2X with sample water.
 - 2. Standing in the centroid of flow of the waterbody and downstream of the tube, dip the tube into the water facing upstream to fill it.
 - a. If centroid is not accessible, or the waterbody is unsafe to stand in, use a bucket to collect sample water and pour into the tube immediately after collection to prevent settling of suspended materials.
 - Holding the tube vertically, look down the tube to see if the disc at the bottom is visible. If disc is not visible, release water until visible and record the water level in meters on Monitoring Form.
 - a. If the tube is filled to the top and the disc is completely visible, record the measurement as > the maximum tube length (>1.2 m or >0.6 m).

- 4. Measure *Total Depth* by lowering Secchi disc into water until cord becomes slack, then raise until straight. Mark and record to 0.1 m.
- 5. Conduct bucket grab, rinse bucket 2X with sample water and discard water downstream.
- 6. Measure *Water Temperature* in the bucket sample with thermometer for 1-1/2 minutes. Read thermometer while in water to the nearest 0.5 ℃.

Dissolved Oxygen (DO) Measurement (Titration Method)

- 1. Rinse 2 sample bottles and caps 2X with sample water.
- 2. Fill each bottle with sample water and cap below sample water surface, check for air bubbles.

Fixing the DO Sample:

- 1. Add 8 drops Manganous Sulfate Solution to each bottle. The bottle will overflow slightly.
- 2. Add 8 drops Alkaline Potassium Iodide Azide. Cap both bottles, slowly invert 25 times. Allow precipitate to settle below the shoulder of the bottles, then invert 10 more times and allow settling again.
- 3. Add 8 drops Sulfuric Acid. Cap both bottles and slowly invert for minimum of 3 minutes or until reagent and precipitate dissolve. Sample is now "Fixed" and can be finished at home within 4 hours if weather or other conditions warrant.

Titrating the DO Sample:

- 1. Rinse 1 vial 2X with a small volume of fixed solution from sample #1. Fill vial with fixed solution from sample #1 to 20 mL line and cap. Repeat for sample #2 and set aside.
- 2. Ensure pink titrator tip is in place and fill titrator with Sodium Thiosulfate the plunger ring should be at 0.0. Expel air bubbles from titrator barrel. Place titrator into hole on vial cap. Add 1 drop at a time of titrator solution to vial and swirl to mix after each drop until the yellow-brown solution turns a pale yellow or straw color.
- 3. Uncap vial with titrator STILL INSERTED and keep tip suspended above mouth of vial. Add 8 drops of Starch Indicator Solution, cap vial, and swirl to mix.

- 4. Continue titration drops and swirls, 1 drop at a time, until the solution becomes clear. Check against white background for any remaining color.
- 5. Read and record total number of units at plunger ring to nearest 0.1 mg/L under 1st titration. Eject remainder of titrator solution into vial and dispose of vial solution in waste container.
- 6. Repeat titration process (Steps 1-5) with fixed solution for sample #2 and record these results under 2nd titration. The second result must be within 0.5 mg/L of the 1st titration, if not repeat steps 1-5 for sample #1. If error limit still isn't met repeat steps 1-5 for sample #2. If repeating steps 1-5 for both samples doesn't meet the error limit, collect a new bucket grab and start over from the beginning with step #1.
- 7. Calculate the average of both titration results to nearest 0.1 mg/L and record under *Dissolved Oxygen*.
- 8. Rinse DO bottles, titration vials, and caps 2X with DI water.

Refractometer

Calibrate with DI water or salinity calibration solution. Record 0 under *Standard Value* in the *Conductivity/Salinity* row on Monitoring Form if using DI water or the concentration of the salinity calibration solution.

Pre-Test Calibration

- 1. Rinse the prism and translucent cover flap 2X with DI water or salinity calibration solution.
- 2. Using a pipette, place a few drops of DI water or salinity calibration solution on the prism. Cover the prism with the flap and wait until the temperature equilibrates and the measurement stabilizes.
- 3. Hold to a light source and look through the eyepiece. Observe the scale inside the field of view.
- 4. Record the Pre-Test Calibration Initial Reading.
- 5. The blue line on the scale should read 0 with DI water or the salinity calibration concentration.
 - a. If not, use the mini screwdriver to loosen the screw on the refractometer ring. Adjust the ring until the scale reads 0 with DI water or the salinity calibration concentration.

The meter is now calibrated. Record under *Calibrated To* on Monitoring Form.

6. Rinse refractometer 2X with DI water and dry.

Measurement

- 1. Rinse refractometer 2X with sample water.
- 2. Use the pipette to cover the prism with sample water. Close the cover flap and make sure there are no air bubbles.
- 3. Wait until the temperature equilibrates and the measurement stabilizes.
- 4. Hold to a light source, look through the eyepiece, and record the *Salinity* measurement.

Post-Test Calibration

- 1. Rinse the prism and translucent cover flap 2X with DI water or salinity calibration solution.
- 2. Using a pipette, place a few drops of DI water or salinity calibration solution on the prism. Cover the prism with the flap and wait until the temperature equilibrates and the measurement stabilizes.
- 3. Hold to a light source and look through the eyepiece. Observe the scale inside the field of view.
- 4. Record the *Post-Test Calibration Initial Reading*. The difference between the *Calibrated To* value and the *Post-Test Calibration Initial Reading* should meet the error limit of ±1 ppt.

pH

Measurement

- 1. Rinse 1 test tube and cap 2X with sample water.
- 2. Determine the type of pH viewer you are using:
 - A. If using the Octet Comparator (2193 and/or 2196) or the Liquid Wide Range pH Viewer (2192), fill round test tube with sample water to the 5 mL indicator line.
 - B. If using the Octa-Slide 2 Viewer (1101) with color bars (2196-01 and 2193-01) fill the square test tube with sample water to the 10 mL line.
- 3. Invert pH Wide Range Indicator bottle a few times to mix, add 10 drops to sample, cap tube, and invert 10 times.
- 4. Insert the tube in Color Comparator Viewer, remove cap, and hold up to white background. Estimate to nearest 0.1 s.u. and record under pH.
- 5. Rinse tube and cap 2X with DI water.