FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified? Yes / No

DE 3/16/17

STORET Station Name: Taylor Creek 0.5 Mi S City STP EFF DE 3/16/17 **Date:** 9/14/16 (mm/dd/yyyy)

STORET Station ID: G1SE0010 80106003 **WBID:** 3205 **Latitude:** 27.228722 (Decimal Degrees)

County: Okeechobee **RQ -** 2016-06-13-34 **ORG ID:** 21FLWPB **Longitude:** -80.824861 (Decimal Degrees)

Receiving Body of Water: Lake O **Field ID:** G1SE0010

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jimmy "woodgrain" Pitts		X		X	X
Jordan Skaggs	X		X		
Matt Sewell		X			

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [ ] Syringe
- [ ] Other
- [ ] Pole

Equipment ID

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [X] Gasoline Motor

Water Level: Dry / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# AE3 **Photos:** (Yes) / No

Tide Falling: Yes / No / (NA)

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	1235	0.3	2.6	JS (6.0)	80	6.9	0.21	0.4	432	29.2
CEN		2.1		JS ~~7.1~~ (4.5)	JS ~~87~~ (55)	6.7	0.21		445	27.9

Biological Samples Collected: None HA SCI (LVS) (RPS) LVI Other

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	621 9020	072717	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Microbiology	[ ] E Coli [ ] F Coli [ ] Entero [ ] QPCR	[ ] Ice			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PC-AA-SF [ ] W-UHERB-AA [ ] W-GLYPH	[ ] Ice [ ] Other			

Place Preservative Sticker(s) Here (If Available)

Notes:

Place Label Here (If Available)

Signature: Jordan Skaggs Date: 9/14/16

Field Parameters Entered into LIMS: JP 11/3/16 (Initials/Date) Field Parameters QC in LIMS: ____ (Initials/Date)

Date Migrated to STORET: ____ (Initials/Date) Field Sheets Scanned/Saved: ____ (Initials/Date)

VISA ID: 77439

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

GISE0010

Waterbody: Taylor Creek | Date: 9/14/16 | County: Okeechobee | Storet Number:

Analyst: Jordan Skaggs | Signature: Jordan Skaggs

Comments:

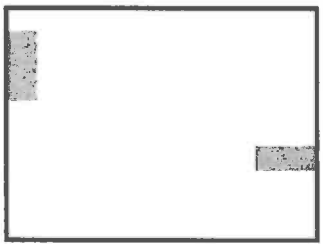
Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides				X	X	X	X	X	X	X	
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis					X					X	
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta	X	X	X	X	X	X	X	X		X	
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle	X	X	X	X	X	X	X	X	X	X	
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana				X	X		X				
Ludwigia repens											
Luziola fluitans											
If no Dominant or Co-Dominant were selected, indicate with "X"											
Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage	X	X			X	X	X	X	X	X	
>5 and ≤10% Macrophyte Coverage			X	X							
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

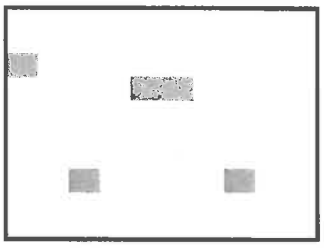
HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nuphar luteum	X			X	X	X	X	X	X	X	
Orontium aquaticum											
Panicum hemitomon					X		X	X	X		
Panicum repens	X	X	X	X	X	X	X		X	X	
Panicum rigidulum											
Pistia stratioides	X	X		X	X		X	X	X	X	
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum						X					
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Sparganium americanum											
Typha	X		X	X	X	X		X	X	X	
Vallisneria americana											
Zizania aquatica											
Taxodium					X		X			X	
Schinus	X			X	X				X	X	
Areana Glabra	X		X			X				X	
Vitis					X						
Nymphe colorata					X						
Zizaniopsis miliacea		X				X	X		X	X	

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

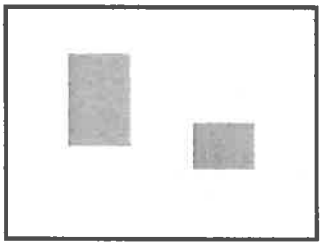
5% Macrophyte Coverage



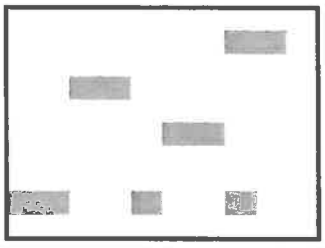
5% Macrophyte Coverage



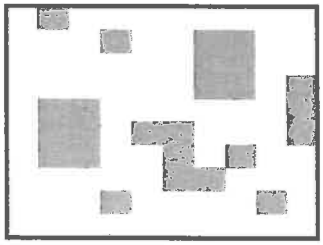
10% Macrophyte Coverage



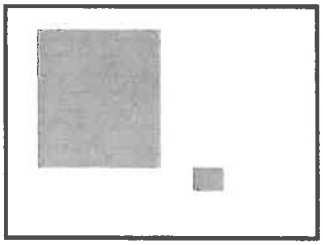
10% Macrophyte Coverage



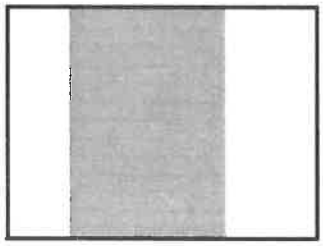
25% Macrophyte Coverage



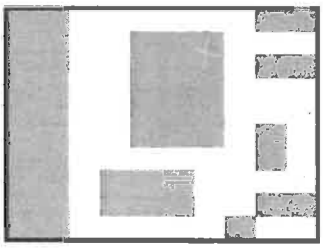
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: 21FLWPB FDEP		STORET STATION NUMBER: G1SE0010	DATE (MM/DD/YY): 9/14/16	RECEIVING BODY OF WATER: LAKE O
REMARKS: NO FLOW	COUNTY: Okeechobee	LOCATION: TAYLOR CREEK		FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 5	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered (5) 4 3 2 1
Substrate Availability 3	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 (3) 2 1
Water Velocity 1	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 (1)
Habitat Smothering 1 Primary Score	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 (18) 17 (16)	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 (2) 1
Secondary Habitat Components **Artificial Channelization**	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 (2) 1
Bank Stability Right Bank 9 9 Left Bank Seawall	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 (9)	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank 2 Left Bank 2	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 (2) 1
Riparian Zone Vegetation Quality Right Bank 1 Left Bank 3 Secondary Score	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

TOTAL SCORE

Date: 9/14/16	Analyst: matt scl	Signature: matt scl

VISIT ID: 77439

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: tarber creek | County: Lee | Date: 9/14 | Investigators: Sewell / Straus

STORET Station Number: 61SEC010

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	X		
	2		X	
	3			
	4			
	5			
	6			
	7		X	
	8			
	9			
10	1			
	2		X	
	3			
	4			
	5			
	6			
	7		X	
	8			
	9			
20	1			
	2		X	
	3			
	4			
	5			
	6			
	7		X	
	8		V	
	9	N		
30	1	N		
	2			
	3			
	4			
	5			3
	6			
	7	N		
	8			
	9	X		
40	1	X		
	2		X	
	3			
	4			
	5			0
	6			
	7		X	
	8			
	9			
50	1	X		
	2		X	
	3			
	4			
	5			0
	6			
	7		X	
	8			
	9	X		

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1			
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			
70	1			
	2			
	3			
	4			
	5			2
	6			
	7			
	8			
	9			
80	1			
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			
90	1			
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			
100	1			
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			

Secchi depth	0.4
Estimated?	

# points ranked 4-6	0
total points assessed	99
% points ranked 4-6	0

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	
Habitat Assessment	
SCI/Biorecon	
Water sample	✓

RQ- 20 16-06-13-3

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

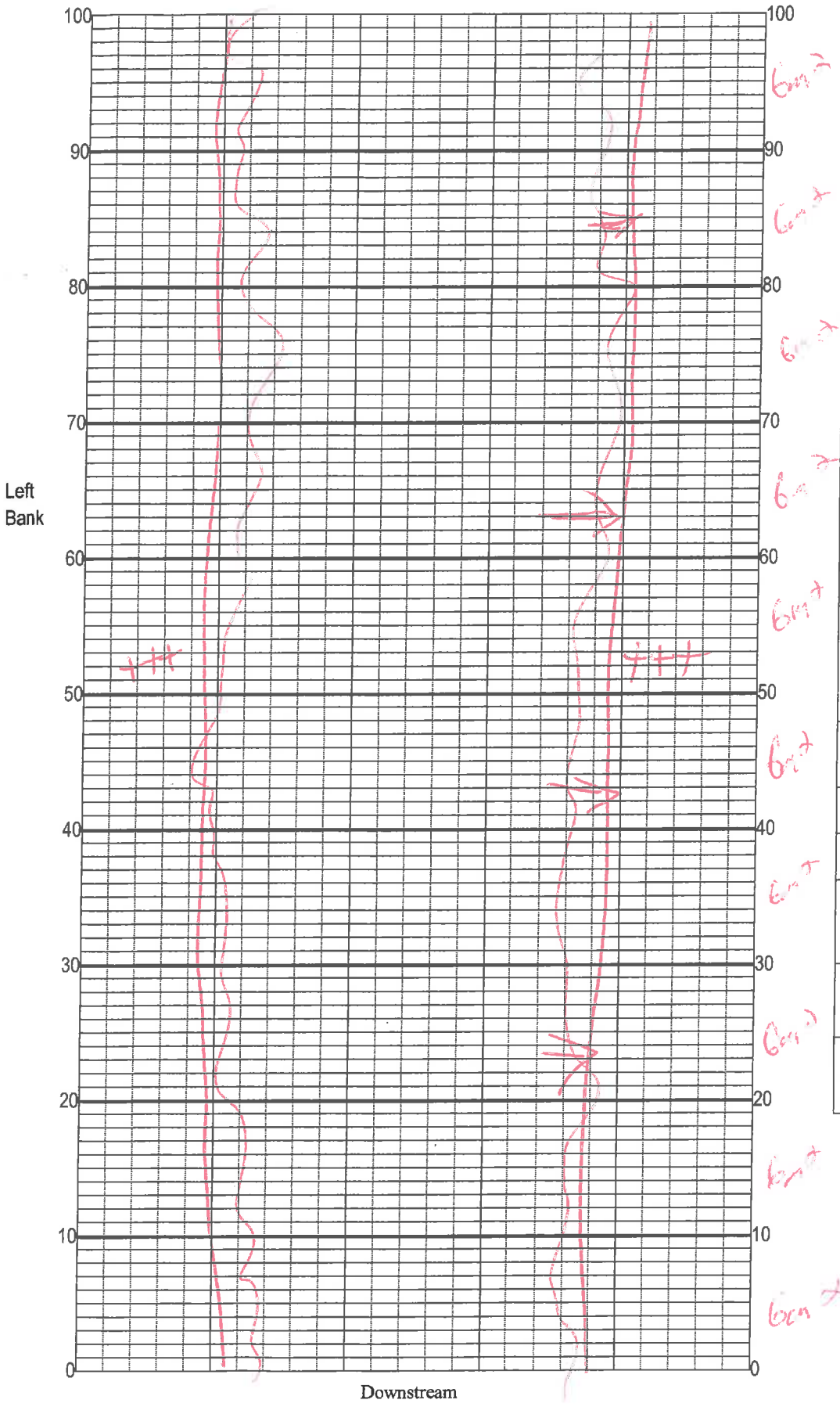
Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

VISIT ID: 77439

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Location: tepper cove

Date: 9/14/16

Sampler: M. Sewell

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

- [ ] Snags _____
- [ ] Roots/undercut banks _____
- [ ] Leaf Packs (or mats) _____
- [ ] Aquatic Macrophytes _____
- [ ] DKS _____
- [ ] _____ _____
- [ ] Pools total # observed = _____ # range expected = _____

Average width 30 m
Average depth 2.5 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

VISIT ID: 77439

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID: GISE0010 | ORG ID: 21FLWB | LATITUDE:
COUNTY: Okeechobee | STORET #: GISE0010 | LONGITUDE:
DATE: 9/14 | TIME: | SAMPLING AGENCY: SE DEP
SITE NAME: Taylor Creek
FIELD ID/NAME: | RECEIVING BODY OF WATER: Lake O

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)
		20		80			

Landscape Development Intensity Index (LDI):

Local Watershed Erosion (select one): ☐ None ☑ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☑ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side: Left Bank: 2 | Right Bank: 2

Hydrologic Modification Score (per FT 3101):

High Water Mark: 0.3 (m) + 2.6 (above present water level) = 2.9 (present depth) (above bed)

Artificially Impounded: ☑ Yes ☐ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

30 m wide

m/s	0.0 m/s	m/s
m deep	2.5 m deep	m deep

Artificially Channelized: ☐ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☑ Recent, severe

Canopy Cover %: ☑ Open ☐ Heavily Shaded ☐ Lightly Shaded (11-45%) ☐ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils: ☑ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors: ☑ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):

Smothering of Substrates

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☑	☐	☐
Silt Smothering:	☐	☐	☑	☐
Algae Smothering:	☐	☐	☑	☐

SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☑ RPS ☑ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)			
Undercut Banks / Roots			
Leaf Packs or Mat			
Aquatic Vegetation	5		
Rock or Shell Rubble..			
Sand.....			
Mud / Muck / Silt			
Other			
Other			

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top:	0.3	29.2	6.9	6.0	80	432	0.21	0.94
Mid:								☐ VOB
Bottom	2.1	27.9	6.7	4.5	55	445	0.21	TOTAL DEPTH

Meter ID: AE3 | 2.6

Water Odors Normal ☑ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☑ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☑ Yes ☐ No
Sample Preserved? ☑ Yes ☐ No
Lot Number: 62H020 Exp: 7/17

Color Tannic ☑ Green (Algae) ☐ Clear ☐ Other (Specify) ☐

Algae Sample Taken? ☐ Yes ☑ No
Sample Preserved? ☐ Yes ☑ No
Lot Number: Exp:

Clarity Clear ☐ Slightly Turbid ☐ Turbid ☑ Opaque ☐

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☑	☐	☐
Fish:	☐	☐	☑	☐
Aquatic Plants:	☐	☐	☑	☐
Iron/Sulfur Bacteria:	☑	☐	☐	☐

System Type: Stream ☐ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☑ canal

AMBIENT FIELD CONDITIONS / NOTES:

☑ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM: Skaggs / Sewell | SIGNATURE: | DATE: 9/14/16

VISIT ID: 77439