

CCHMN FY2018 FIELD AUDIT FORM

Sampling Strata: Tidal Caloosahatchee River

Organization: FDEP - Division of Environmental Resource Assessment

Date: 14-May-18

Sampling Staff: Nicole Reistad, Maryann Dugan

Time: 7:00am - 1pm

CHNEP Program Scientist: Allison Conner

Weather: Cloudy and Rainy

Boat: FDEP - 22' Whaler

Tide: Incoming until 10:30am, then outgoing

Site # - Grid #					
1 - 396	2 - 412	3 - 413	4 - 423	5 - 443	

SUMMARY DATA					
Data Recorder	Nicole	Nicole	Nicole	Nicole	-
Secchi Disk Operator	Nicole	Nicole	Nicole	Nicole	-
Alpha or Van Dorn Bottle Operator	Maryann	Maryann	Maryann	Maryann	-
Pump Operator (if applicable)	-	-	-	-	-
YSI Operator	Nicole	Nicole	Nicole	Nicole	-
LiCor Operator	-	-	-	-	-
Total Depth (m)	0.8	1.3	2.0	1.0	-
Water Sample & YSI Depths (m)					
Surface	0.5	0.5	0.5	0.5	-
Intermediate(s) (in 1 m increments - optional)	-	-	-	-	-
(If ≥ 3m deep) Bottom	-	-	-	-	-
LiCor Depths (m)					
Surface	Not Collected	Not Collected	Not Collected	Not Collected	-
Intermediate(s) (in 1 m increments if applicable)	-	-	-	-	-
(If ≥ 3m deep) Bottom	-	-	-	-	-

CCHMN FY2018 FIELD AUDIT FORM

Site # - Grid #					
	1 - 396	2 - 412	3 - 413	4 - 423	5 - 443
GENERAL OBSERVATIONS					
Samples collected from randomly selected sites which are selected prior to field sampling; alternate sites chosen when: a) water depth too shallow b) unable to get to sample site.	Yes - FDEP staff use randomly selected grids & sites generated by LCEL prior to sampling with GIS tool & estuary polygon; used GPS to find sites; sampled as close to site as possible with >0.7 m depth.				
Optional: 1 Duplicate field sample taken every 10 sites or 1 every sampling trip.	No - Optional duplicate samples were not taken.				
1 blank taken every sampling trip.	Yes - Blank sample & readings taken dockside after sample collection due to weather.				
Water samples collected using a horizontal sampling device, such as an Alpha or Niskin bottle (opaque preferred).	Yes - Used alpha bottle to collect samples.				
Optional: Use protective gloves.	Yes - Optional gloves were not used.				
All sampling done away from motor; when sampling in a boat, samples taken from bow, away & upwind from engine.	Yes - All samples taken off side near mid-ship & alpha bottle taken off side near stern away from motor at each site.				
DECONTAMINATION					
All equipment cleaned in a controlled environment & transported to the field pre-cleaned ready to use.	Yes - LCEL lab prep area clean & organized; equipment transported in cases; sample containers transported in clean bags for protection; filter holders cleaned in lab & transported to field in protective box & loaded with filters in field.				
Optional: Equipment washed in field with detergents (Liquinox or Alconox).	Yes - Equipment washed prior to blank collection.				
Field cleaned equipment (alpha/niskin bottle, pump tubing, syringes, filters & other equipment) cleaned & rinsed with DI water 3 X after completion of sampling each site.	Yes - equipment rinsed with DI water 3 X	Yes - equipment rinsed with DI water 3 X	Yes - equipment rinsed with DI water 3 X	Yes - equipment rinsed with DI water 3 X	-
AQUEOUS SAMPLING PROCEDURES					
Sample collection equipment & non-preserved sample containers rinsed with sample water before sample is taken.	Yes - sample collection equipment & non-preserved sample containers rinsed with ambient water before sample collection	Yes - sample collection equipment & non-preserved sample containers rinsed with ambient water before sample collection	Yes - sample collection equipment & non-preserved sample containers rinsed with ambient water before sample collection	Yes - sample collection equipment & non-preserved sample containers rinsed with ambient water before sample collection	-
Proper order for filling sample bottles is used: non-preserved, preserved, then filtered.	Yes - Proper order of filling sample bottles was used	Yes - Proper order of filling sample bottles was used	Yes - Proper order of filling sample bottles was used	Yes - Proper order of filling sample bottles was used	-
NH3 & Orthophosphate samples filtered using peristaltic pump or syringe-filter combination with .45 micron filters; tubing for peristaltic pump rinsed with sample water through spigot.	No - Only Orthophosphate samples filtered using syringe-filter combination with .45 micron filters, NH3 was not filtered.	No - Only Orthophosphate samples filtered using syringe-filter combination with .45 micron filters, NH3 was not filtered.	No - Only Orthophosphate samples filtered using syringe-filter combination with .45 micron filters, NH3 was not filtered.	No - Only Orthophosphate samples filtered using syringe-filter combination with .45 micron filters, NH3 was not filtered.	-
Once filled, sample bottles put on ice, except chlorophyll bottles, which are laid on top of other bottles in ice chests until cooled, then completely iced.	Yes - samples put in ice immediately, w/Chl on top of ice	Yes - samples put in ice immediately, w/Chl on top of ice	Yes - samples put in ice immediately, w/Chl on top of ice	Yes - samples put in ice immediately, w/Chl on top of ice	-

CCHMN FY2018 FIELD AUDIT FORM

	Site # - Grid #				
	1 - 396	2 - 412	3 - 413	4 - 423	5 - 443
LIGHT DATA					
Secchi disk depth taken on shady side of boat without sunglasses.	Yes - Secchi taken on shadiest side of boat w/o sunglasses	Yes - Secchi taken on shadiest side of boat w/o sunglasses	Yes - Secchi taken on shadiest side of boat w/o sunglasses	Yes - Secchi taken on shadiest side of boat w/o sunglasses	-
Light meter readings taken on sunny side of boat.	N/A - not collected	N/A - not collected	N/A - not collected	N/A - not collected	-
Licor measurements recorded simultaneously with 2 uw sensors mounted with PVC pole frame held vertically & sensors not shaded by each other, the boat, SAV or other objects.	N/A - not collected	N/A - not collected	N/A - not collected	N/A - not collected	-
Data qualifier used to record bottom composition information (mucky, sandy, submerged aquatic vegetation, hard bottom or unknown), especially when using a 4 pi light meter over white, sandy sediments.	Yes - bottom type observed from surface &/or anchor & recorded or recorded as unknown if undetermined	Yes - bottom type observed from surface &/or anchor & recorded or recorded as unknown if undetermined	Yes - bottom type observed from surface &/or anchor & recorded or recorded as unknown if undetermined	Yes - bottom type observed from surface &/or anchor & recorded or recorded as unknown if undetermined	-
MISCELLANEOUS					
Multi-parameter sampling meter values (pH, DO, salinity, temperature) recorded to nearest 0.01 values; conductivity readings recorded to nearest unit.	Yes - values for pH, DO, salinity & temperature recorded to .01 units & conductivity recorded to nearest unit	Yes - values for pH, DO, salinity & temperature recorded to .01 units & conductivity recorded to nearest unit	Yes - values for pH, DO, salinity & temperature recorded to .01 units & conductivity recorded to nearest unit	Yes - values for pH, DO, salinity & temperature recorded to .01 units & conductivity recorded to nearest unit	-
Multi-parameter sampling meters calibrated before & after each trip; post-sampling calibration done within 24 hours; data managers notified of failures ASAP & no later than before WIN upload.	Yes - YSI calibrated in lab before & after sampling event.				
Each CCHMN partner will participate in a minimum of 2 RAMP meetings annually.	Yes - FWC FWRI staff attended all RAMP meetings held within the last 12 months.				
NOTES					
General	Sampling conducted according to SOPs & in technically sound manner. Fifth site sample collection not completed due to weather. FDEP Division staff in the process of ordering LiCor meters and equipment.				
Misc.					
Things to Watch					
Discussion for Annual Meeting Based on All FY2018 Field Audit Results	LiCor training for FDEP staff				