FDEP South District
PO Box 2549
Fort Myers, Florida 33902
(239) 344-5600
Revised June 21, 2012

SAMPLING DATE: 9-20-2012

RQ#: 2012-09-17-29 B: C: F: SIM:
RQ#: B: C: F: SIM:

Project ID (circle one) TMDL PRAIRIE LAKES STREAM Other TMT CANAL TMDL

Sampled by {Team Names} and Initials

BEN PASWATER	BP
ALBERT WALTON	ASW
COREY ANDERSON	CA
Danny Berger	DB

Report Prepared by ASW
Sample Depth (ft.) 0.5

Collection Method (circle one)
(Grab) Composite

Composite Date/Time
Start _____ Finish _____

Preservation Check (see back also)

	Preservative in bottles [Y/N]	Initials
Ice	Y	ASW
Nutrients - 1 mL 1:1 H_2SO_4 per 500 mL	Y	ASW
Metals - 1 mL 1:1 HNO_3 per 500 mL		
PO4 - Filter	Y	ASW
Other TOC	Y	ASW

Field Measurement Instruments ID:

YSI ID	Date/Time/Initial	
Keys	Calibrated 9-20-12 0710 BP	DO failed post Cal.
Keys	Cal. Check 9-20-12 1700 CA	
	Calibrated	
	Cal. Check	

D.O. failed post calibration gets J qualifier

Sampling device: (circle) Container (Bucket) Van Dorn Pump Dipper Other (Specify in Remarks)
Equipment Construction: (Circle) (Plastic) Glass Other (Specify in Remarks)
Boat: (circle) Motor Paddles/Oars Trolling Motor Other (Specifiy in Remarks)
Remarks:

Value Qualifiers:

(J)- Estimated Value
K - Actual value is known to be less than value given
R- Significant rain in the past 48 hrs (excess of 1/2" within the past 48 hrs.)
D- Measurement was made in the field
A - Value reported is the mean of two or more determinations
L - Actual value is known to be greater

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WBID# / RQ# / Field ID / Location/Name / STORET # / Collection date	PARAMETER	DATE / TIME	ANALYST (Initials)	Sample Depth	TEMP EPA170.1	DO SM4500.OG	DO SM4500.OG	COND EPA120.1	PH EPA150.1	Secchi DEPSOP001/01	Total Depth	Matrix
	UNIT	dd/mm/yy hr:min		Feet	°C	mg/L	%	µS/cm	su	meter	meter	Fresh/Salt
	STORET #			68	10	299	301	94	400	78		
SD092012-1 Site #6 TMT 21FLSFWMGATOR 9/20/2012		1233	ASW	0.3	28.79	6.30 J	82.1 J	253	7.19	1.5 L	1.5	fresh
Field Conditions:								pH<2.0 (circle) Y / N		Sample collected by: CA		
SD092012-2 Site #7A TMT 21FLSFWMMONROE 9/20/2012		1310	ASW	0.5	29.98	8.14 J	108.5 J	299	7.39	1.5 L	1.5	fresh
Field Conditions:								pH<2.0 (circle) Y / N		Sample collected by: CA		
SD092012-3 Site #7C TMT 21FLSFWMBC17 9/20/2012		1336	ASW	0.5	28.34	3.70 J	47.5 J	363	7.14	1.9 L	1.9	fresh
Field Conditions:								pH<2.0 (circle) Y / N		Sample collected by: CA		
SD092012-4 Site #7B TMT 21FLSFWMBC16 9/20/2012		1400	ASW	0.5	27.44	4.91 J	62.6 J	381	7.18	1.5 L	1.5	fresh
Field Conditions:								pH<2.0 (circle) Y / N		Sample collected by: CA		

Comments:

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WBID# / RQ# / Field ID / Location/Name / STORET # / Collection date	PARAMETER	DATE / TIME	ANALYST (Initials)	Sample Depth	TEMP EPA170.1	DO SM4500.OG	DO SM4500.OG	COND EPA120.1	PH EPA150.1	Secchi DEPSOP001/01	Total Depth	Matrix
	UNIT	dd/mm/yy hr:min		Feet	°C	mg/L	%	µS/cm	su	meter	meter	Fresh/Salt
	STORET #			68	10	299	301	94	400	78		
SD092012-5 Site Br #78 TMT EVRGWC0120FTM 9/20/2012		1416	ASW	0.5	28.17	5.08 J	65.9 J	554	7.16	1.7 L	1.7	fresh
Field Conditions:								pH<2.0 (circle) (Y) / N		Sample collected by: CA		
SD092012-6 Site #8 TMT 21FLSFWMBC19 9/20/2012		1443	ASW	0.5	29.07	1.46 J	19.4 J	1420	7.21	1.5 L	1.5	fresh
Field Conditions:								pH<2.0 (circle) (Y) / N		Sample collected by: CA		
SD092012-7 Blank 9/20/2012		1425										fresh
Field Conditions:								pH<2.0 (circle) (Y) / N		Sample collected by: CA		
Field ID: / Location: / STORET #: / Collection Date:												
Field Conditions:								pH<2.0 (circle) Y / N		Sample collected by:		

Comments:

5.1FT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
6 TMT	TAMIAMI CANAL BRIDGE 30105 ON US41 21FLSFWM GATOR		2012/09/20	1233	0.5 0.3	28.79	253	7.19	82.1 J	6.30 J	0.12		VOB@ 1.5 mm		
	Bio Response (Fish, Mussels, Birds, etc)? SPOTTED GAR, LRG MTH. BASS,				1.5	28.60	257	7.18	73.2 J	5.65 J	0.12		SAV Present? HYGROPHILA		

LAT: 25.84329°N LONG: 080.91770°W COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 1.5 m 5"

EST. WIDTH (FEET): 20 EST. AREA (FEET^2): 160 EST. VELOCITY (FEET/S): < 0.05

LOCATION ON CANAL: EAST (CENTER) WEST DIRECTION OF CANAL FLOW: SOUTH UNDER 41 WEATHER: HOT SUNNY

ADDITIONAL NOTES:

SAMPLER SIGNATURE: Albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

Hygrophila
Nuphar
Nymphoides
Thalia
Utricularia sp.
Cypress Trees

COCOPLUM
MIKANEA SCANDENS
DAHOON HOLLY
POND APPLE
SWAMP BAY
SAGITTARIA LANCIFOLIA
MYRICA
TYPHA
SALIX

PLANTS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
7A TMT	TAMIAMI CANAL @ MONROE STATION 21FLSFWM MONROE		20121 09/20	1310	0.5	29.98	299	7.39	108.5 J	8.14 J	0.14		VOB @ 1.5		
					1.4	29.96	299	7.39	104.1 J	7.86 J	0.14		SAV Present?		
	Bio Response (Fish, Mussels, Birds, etc)? SEE BELOW														

LAT: 25.86381 °N LONG: -81.10088 COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 5'

EST. WIDTH (FEET): 30' EST. AREA (FEET²): 150 EST. VELOCITY (FEET/S): ~~0.25~~ 1 ft/s FROM EAST, SLOW FROM WEST

LOCATION ON CANAL: EAST (CENTER) WEST DIRECTION OF CANAL FLOW: FROM EAST & WEST TO SOUTH UNDER BRIDGE WEATHER: HOT, SUNNY

ADDITIONAL NOTES:

SAMPLER SIGNATURE: albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

Nymphoides

Myrophila

Hydrilla

~~Eu~~tricularia

~~Mayan Cichlid~~

~~Gambusia~~

Alligator americanus

FISH: spotted gar, Mayan cichlid, Gambusia, Bass

SALIX

CYPRESS

Water Jony West & South under bridge

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
TMT 7 C	TAMIAMI CANAL @ BRIDGE #86 ON US41 21FLSFWM BC17		2012/09/20	1336	0.5	28.34	363	7.14 SU	47.5 J	3.70 J	0.17		V.o.B at 1.9		
					1.8	28.29	363	7.13 SU	46.6 J	3.62 J	0.17		SAV Present?		
	Bio Response (Fish, Mussels, Birds, etc)? FISH COMMON														

LAT: 25.87673° N LONG: -81.22784° W COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 1.9m 2

EST. WIDTH (FEET): 30 EST. AREA (FEET²): 60 EST. VELOCITY (FEET/S): SLOW

LOCATION ON CANAL: EAST (CENTER) WEST DIRECTION OF CANAL FLOW: CANT TELL WEATHER:

ADDITIONAL NOTES:

SAMPLER SIGNATURE: Albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

ALLIGATORS
NYMPHOIDES
PISTIA
AZOLLA
SALVINIA
POND APPLE
SALIX
CYPRESS
BRAZ PEPPER
ACER
COCOPLUM
CABBAGE PALM

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
7B TMT	TAMIAMI CANAL @ BRIDGE #94 ON US41 21FLSFWM BC16		20121 09/20	1400	0.5	27.44	381	7.18	62.6	4.91	0.18		v.o.B. at 1.5		
					1.5	26.85	384	7.22	70.7	5.75	0.18		SAV Present? NAJAS		
	Bio Response (Fish, Mussels, Birds, etc)? FISH COMMON														

LAT: 25.88728°N LONG: -81.26131°W COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 1.5m = 5

EST. WIDTH (FEET): 30 EST. AREA (FEET²): 150 EST. VELOCITY (FEET/S): SLOW

LOCATION ON CANAL: EAST CENTER WEST DIRECTION OF CANAL FLOW: CAN'T TELL WEATHER:

ADDITIONAL NOTES:

SAMPLER SIGNATURE: Albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

Najas
Water Hyacinth
Hygrophila
Torpedo grass
Red Maples
Wax myrtle
Cypress trees
Ceratophyllum
Sarcostemma
Salix
Pond Apple
Phragmites
Cabbage Palm
LUDWIGIA CF. OCTOVALVIS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO J	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
BR 78 TMT	TAMIAMI CANAL @ BR #78 ON US41 EVRGWC0120FTM Bio Response (Fish, Mussels, Birds, etc)?		2012/09/20	1416	0.5	28.17	554	7.16 J	65.9 J	5.08 J	0.27		v.obs. at 1.7m		
					1.6	28.07	562	7.15 J	58.7 J	4.59 J	0.27		SAV Present?		

LAT: 25.9045°N LONG: -81.3240°W COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 1.7m / 5 FT

EST. WIDTH (FEET): 30 EST. AREA (FEET²): 150 EST. VELOCITY (FEET/S): < 0.5 FPS

LOCATION ON CANAL: EAST (CENTER) WEST DIRECTION OF CANAL FLOW: SOUTH UNDER BRIDGE WEATHER:

ADDITIONAL NOTES:

SAMPLER SIGNATURE: Albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

Cat Tail

Phragmites

Bay w/ Black berry

~~SAW~~ CLADIUM

POND APPLE

MYRICA

CYPRESS

COCOPLUM

RED MANGROVE

~~SALIX~~ SALIX

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIELD PARAMETERS DATA SHEET

SURVEY/PROJECT: TMT Canal (West Coast) SAMPLERS: Albert Walton/Ben Paswater/Corey Anderson SONDE #:

STA #	STATION DESCRIPTION	Parameter:	DATE	TIME	SAMPLE DEPTH	WATER TEMP	COND	pH	DO SAT	DO	SAL	TURB	SECCHI DEPTH	RPWS	GAGE HEIGHT
		Units:	YYYYMMDD	HHMM	METER	°C	uS/cm	su	%	mg/L	ppt	NTU	METER	FEET	FEET
		Code:	73672		68	10	94	400	301	299	480	82078	198	72109	65
8 TMT	TAMIAMI CANAL @ BRIDGE # 69 ON US 41 21FLSFWM BC 19		2021 09/20	1443	0.5	29.07	~~80~~ 1420 74	7.21	19.4 J	1.46 J	4.32		v.o.b. at 1.5m J		
					1.6	27.48	2972	7.14	4.8 J	0.37 J	0.87		SAV Present?		
	Bio Response (Fish, Mussels, Birds, etc)?														

LAT: ~81.42656 LONG: 25.92638 COUNTY: Collier WATERBODY CLASS: III TOTAL DEPTH: 1.6 = 5

EST. WIDTH (FEET): 35 EST. AREA (FEET^2): 175 EST. VELOCITY (FEET/S):

LOCATION ON CANAL: EAST (CENTER) WEST DIRECTION OF CANAL FLOW: WEST WEATHER: RAIN

ADDITIONAL NOTES:

SAMPLER SIGNATURE: albert Walton

BIOLOGICAL OBSERVATIONS/ NOTES

Typha

Red Mangrove

CLADIUM

Calibration Log - Instrument Number Keys .

Boldly x this box if there is qualified data on this page. D.O.

Date: 9/20/12 Calibration time 710 By: Ben Parmer
Print Full Name

Temperature / monthly Date of last temperature verification 9/5/12 .
The following parameters are done on the basis of initial calibration daily with post sampling verification daily.

Dissolved Oxygen

In calibrate mode:

Initial Reading:	9.38 mg/L	@ Temp 24.29 C	%DO 100.0	(P)	F	NOTE: PROBE EXPOSED TO ANOXIC CONDITIONS AT LAST SITE OF DAY #8 TMT after
Calibrated Reading	8.38 mg/L	@ Temp 24.29 C	%DO 100.0	(P)	F	
In Run Mode						
Initial Verification	8.04 mg/L	@ Temp 23.05 C	%DO 100.6	(P)	F	

Sp. Conductance	Standard	log ref. #	Temp	Initial Reading	Calibrated Reading		
In calibrate mode							
Calibration	2.000	9	25.46	1968	2000	(P)	F
In Run Mode							
Initial Verification	2.000	9	24.99		2003	(P)	F

PH

Standard	log ref #	Initial Reading	Temp	Calibrated Reading	Temp.		
In calibrate mode							
7.00 SU	48	7.02	25.13 C	7.00	25.12 C	(P)	F
4.00 SU	54	3.97	25.45 C	4.00	25.40 C	(P)	F
10.00 SU	47	9.98	25.18 C	9.99	25.13 C	(P)	F
In Run Mode							

Initial Verification standard 10.00 SU log ref # 47 actual reading 9.99 SU 25.08 C (P) F

Post Sampling Check Date: 9/20/12 Time: 1700 By Gary Anderson
Print Full Name

Dissolved Oxygen 2.41 mg/L @ Temp 24.10 C %DO 30.6 P (F)

Note: For post sampling check of Conductivity and pH use a standard that brackets measured results for the days sampling.

Specific Cond.	Standard	log ref. #	Reading		
In Run Mode	100 ±5	100	105	(P)	F

PH	bracketing standard	log ref. #	Reading	Temperature		
In Run Mode						
Post Sample	4.0 SU	54	3.93 SU	24.01 C	(P)	F

Date of last monthly maintenance 8/21/12 .
NOTES: (date, time and initials)

PROJECT: Tamiami Canal .
Acceptance criteria (DO ±0.3mg/L) (sp. Conductance ±5%) (pH ±0.2SU)

Cooler Packing Worksheet for Request: RQ-2012-09-17-29

Tamiami Canal

Ship Cooler On: 9/17/2012 Requester: Candice Burger

Customer/Project: WQ-ASSESS/TMDL Priority: 3

561-682-2664
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Ft. Myers, FL 33901

Attn: Erin Rasnake

Comments:
Please Ship in 2 Coolers. Ship priority overnight on 9/19.

Requested Analyses:

Group: A **# of Sites: 7**

Container ID: P-1L **Qty: 7** **Preservation: ICE** **Lot #** 00052610

Description: Plastic Bottle 1L

Analysis	Description
BOD-UNIN	BOD, NOT nitrogen-inhibited

Container ID: BP-1L **Qty: 7** **Preservation: ICE** **Lot #** REC-WASH

Description: Brown Plastic Bottle 1L

Analysis	Description
CHL-CORR-W	Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry

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Container ID: P-1L **Qty: 7** **Preservation: ICE** **Lot #** 00052610

Description: Plastic Bottle 1L

Analysis	Description
TURBIDITY	Turbidity in aqueous matrices
W-ALK	Alkalinity in aqueous matrices as mg CaCO3/L
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm or Apparent Color
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: P-125ML **Qty: 7** **Preservation: ICE And H2SO4** **Lot #** 00049033

Description: Plastic Bottle 125 mL

Analysis	Description
W-DOC	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices

---

Container ID: P-500ML **Qty: 7** **Preservation: ICE And H2SO4** **Lot #** 0000526L3

Description: Plastic Bottle 500 mL

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 7** **Preservation: ICE-FLTR** **Lot #** 0000520332
0000503465

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: JCW Date: 9-19-12

DEP Cooler ID #(s): 3 Coolers

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle (1 per cooler)
- ✓ FedEx Bills, if applicable (1 per cooler)
- ✓ Plastic Bags

If Preservation Included:
ID _____ Lot # _____
ID _____ Lot # _____
ID _____ Lot # _____
ID _____ Lot # _____

Cooler received intact? (Circle one) Yes No Received By/Date: _____

PLEASE RETURN ALL COOLERS FOR RQ-2012-09-17-29