



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Thursday, November 15, 2018
Sampler: Geoff Rosenaw
Meter/Notes: Danny Berger



Certificate No
[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: I

CCV: Morning		Sonde / Handheld	ProDSS #10	Serial #:	17E102963	
Date/Time:	11/15/18 8:43 AM	Operator:	Geoff Rosenaw	Project:	MARCO	
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Associated Calibration File:		
1000	11449	999	Pass	Calibration_10_111518		
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail	All CCV Results Pass? Yes		
4.00	11061	3.96	Pass			
7.00						
10.00						
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	9.14	100.1	19.9	Pass	9.129	761.3
1.0037705						
CCV: Afternoon						
		Date/Time:	11/15/2018 12:34	Operator:	Danny Berger	
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	10548	10091	Pass			
70000	11451	69230	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail	All CCV Results Pass? Yes		
4.00						
7.00	11249	7.08	Pass			
10.00	11254	9.95	Pass			
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.43	99.6	23.7	Pass	8.469	760.3
1.000394737						
Notes:						
Surface Water Field Workbook Rev 13.9 Effective October 17th, 2018						

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_I_111518
3 of 10

Program: MARCO Run: I Meter / Danny Berger Date: 11/15/2018
Sample Collector: Geoff Rosenaw Notes:

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	ODO (% LocalIB)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51787	9:57	JH_PARK										

Collection Device: VanDorn; CDI: 06978
Cleaning Protocol: [Redacted]
Comments: EB taken from carboy CDI 08332. Staff Gauge: pH < 2: YES
Sample Type: EB

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51781	10:09	JH_PARK	27.9	50993	33.39	72.1	4.71	7.67	0.30		3.60	2.10
AF51781B	10:11	JH_PARK	28.1	51620	33.85	68.6	4.46	7.70	3.30		3.60	2.10

Collection Device: VanDorn; CDI: 06978
Cleaning Protocol: J
Comments: Visibly outgoing tide. Boat passed by during meter readings. Staff Gauge: pH < 2: YES
Sample Type: SAMP

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51784	10:35	KENDALL	27.9	51203	33.55	76.6	5.00	7.70	0.30		0.70	0.70

Collection Device: Pole Sampler; CDI: 08650
Cleaning Protocol: J
Comments: Animal feces present on top of seawall at site. Visible outgoing tide. Staff Gauge: pH < 2: YES
Sample Type: SAMP

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51783	11:06	HC_CENTER	27.2	49943	32.64	88.4	5.86	7.76	0.30		1.60	1.60
AF51783B	11:09	HC_CENTER	27.9	50898	33.32	82.0	5.36	7.76	1.30		1.60	1.60

Collection Device: Pole Sampler; CDI: 08650
Cleaning Protocol: J
Comments: Some fish present near sampling site. Some vegetative yard clippings also present. Difficult to determine tide direction. Staff Gauge: pH < 2: YES
Sample Type: SAMP

Bottles Per Site:	5	Matrix:	SW	No
Bottles Shipped Per Site:	0	Weather:	Rain in morning. 80s.	
Sampling SOP:	FSQM 03-02	24 HRS Prior Weather:	Rain in PM. Mid 80s.	

Prepared By: **Geoff Rosenaw**
Reviewed By: **Danny Berger**
Signed: 11/16/2018 9:40:19 AM
Signed: 11/16/2018 10:26:52 AM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_I_111518
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Program: MARCO Run: I Meter / Danny Berger Date: 11/15/2018
Notes: Sample Collector: Geoff Rosenaw

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51788	11:13	HC_CENTER	27.2	49916	32.62	90.4	5.99	7.80	0.30		1.60	1.60
AF51788B	11:15	HC_CENTER	28.0	51055	33.44	79.8	5.20	7.76	1.30		1.60	1.60
Collection Device Pole Sampler; CDI: 08650 Cleaning Protocol: J Flow: Flow.												

Comments: Some fish present near sampling site. Some vegetative yard clippings also present. Difficult to determine tide direction.

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51776	11:37	HUMMINGBIRD	28.1	51990	34.12	75.2	4.88	7.66	0.30		0.90	0.90
Collection Device Pole Sampler; CDI: 08650 Cleaning Protocol: [Redacted] Flow: Flow.												

Comments: Visibly outgoing tide.

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Collection Device [Redacted] Cleaning Protocol: [Redacted] Flow: Flow.												

Comments: [Redacted]

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Collection Device [Redacted] Cleaning Protocol: [Redacted] Flow: Flow.												

Comments: [Redacted]

Number of Bottles at Each Site:	5	Matrix: SW	Named storm event that impacted sampling event?	No
Number of Bottles Being Shipped:	0	Weather:	Rain in morning. 80s.	
Sampling SOP Used:	FSQM 03-02	24 HRS Prior Weather:	Rain in PM. Mid 80s.	

Prepared By: Geoff Rosenaw
Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_L_111518
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Program: MARCO		Run: J		Sample Collector: Geoff Rosenaw		Meter / Notes: Danny Berger		Date: 11/15/2018				
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device												
Comments: Cleaning Protocol: Flow: pH < 2: Sample Type:												
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH <td>SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td></td>	SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td>	STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td>	WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td>	SECCHI DEPTH (meters)
Collection Device												
Comments: Cleaning Protocol: Flow: pH < 2: Sample Type:												
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH <td>SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td></td>	SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td>	STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td>	WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td>	SECCHI DEPTH (meters)
Collection Device												
Comments: Cleaning Protocol: Flow: pH < 2: Sample Type:												
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH <td>SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td></td>	SAMPLE DEPTH (meters) <td>STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td></td>	STAFF GAUGE (feet) <td>WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td> </td>	WATER DEPTH (meters) <td>SECCHI DEPTH (meters)</td>	SECCHI DEPTH (meters)
Collection Device												
Comments: Cleaning Protocol: Flow: pH < 2: Sample Type:												
Number of Bottles at Each Site:	5	Matrix: SW	Named storm event that impacted sampling event? No									
Number of Bottles Being Shipped:	0	Weather:	Rain in morning. 80s.									
Sampling SOP Used:	FSQM 03-02	24 HRS Prior Weather:	Rain in PM. Mid 80s.									
Prepared By:		Geoff Rosenaw										
Reviewed By:		Danny Berger										

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_I_111518
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Program: MARCO Run: I Meter / Danny Berger Date: 11/15/2018
Sample Collector: Geoff Rosenaw Notes:

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device												
Comments:				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device												
Comments:				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device												
Comments:				Field Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device												
Comments:				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
											Sample Type:	

Number of Bottles at Each Site:	5	Matrix: SW	Named storm event that impacted sampling event?	No
Number of Bottles Being Shipped:	0	Weather:	Rain in morning. 80s.	
Sampling SOP Used:	FSQM 03-02	24 HRS Prior Weather:	Rain in PM. Mid 80s.	

Prepared By: Geoff Rosenaw
Reviewed By: Danny Berger



Collier County Pollution Control Department Chain of Custody
3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

NELAC Certification: #E45464

Phone: (239) 252-2502 FAX: (239) 252-6479

Client Information

Name: Rhonda Watkins
Company Name: Collier County Natural Resources
Address: 2685 South Horseshoe Drive Ste 103, Fl 34104
Phone: (239) 252-2502 Ext. 6049
Fax: (239) 252-6479

Project MARCO
Sample Collector(s): Geoff Rosenaw
Sample Collector Signature:
Relinquished By: (Signature)

Received By: (Signature)
Date/Time: 11/15/18 1:31 PM

Relinquished By: (Signature)
Date/Time: 11/15/18 1:31 PM

Received By: (Signature)
Date/Time:

Received By: (Signature)
Date/Time:

PRESERVATION CODES
2C 1L Opaque HDPE/Light-shielded/ice
3S 125ml HDPE/H2SO4/ice
4F 250ml HDPE/Filtered/ice
5I 120ml HDPE w/Sodium Thiosulfate/ice
6N 250ml HDPE/HNO3
14 Whatman Polydisc GW 0.45µm

MATRIX CODES
GW Ground Water
SW Surface Water
WW Waste Water
DW Drinking Water
Other

Lot#	Prs. Vol.	Prs. Lot#	Prs. Supp.	Prs. Date	Initials
AF51363					
CDI 10504	8 drops	RP 11331	Fisher	11/15/2018	DB, GR
70180, 70624, 69632					
CDI 10095					
70180, 70624, 69632					
A10217943, A10217944					

Parameters		Bottle Codes		Sample Check-In	
Chlorophyll-P, Pheophytin-P, Prep-Chloro		2C	3S	4F	5I
Nitrate-Nitrite-P, Nitrogen-TKN, PC-Prep-TKN					
Nitrite-PC					
Enterolert-PC					
Phosphorus-ICP-PC, Prep Metals					
TN-PC, CC-Nitrate-N-PC					
Sample(s) Intact?					
Rec'd in wet ice?					
Temp°C:					
Proper Samp ID?					
Rec'd within hold timer?					
Acid preserved samples pH<2?					
CI Residual 0 ppm?					
Logged In?					
Scanned?					

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	2C	3S	4F	5I	6N	Calc	# of sample Containers Submitted	Lab ID #
11/15/2018	9:57	#N/A	#N/A	#N/A	JH PARK	SW	1	1	1	1	1		1	AF51787
11/15/2018	10:09	7.67	50993	0.30	JH PARK	SW	1	1	1	1	1		1	AF51781
11/15/2018	10:35	7.70	51203	0.30	KENDALL	SW	1	1	1	1	1		1	AF51784
11/15/2018	11:06	7.76	49943	0.30	HC CENTER	SW	1	1	1	1	1		1	AF51783
11/15/2018	11:13	7.80	49916	0.30	REPLICATE	SW	1	1	1	1	1		1	AF51788
11/15/2018	11:37	7.66	51990	0.30	HUMMINGBIRD	SW	1	1	1	1	1		1	AF51776

Notes:

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Call Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst Verified Signature
Chain of Custody-W8	DB	DB, GR	Sampler	1/15/2018 10:16	Geoff also acidified a sample.	Danny Berger
Field Sheet-B21	J	Pole Sampler, CDI, 10882	Sampler	1/15/2018 10:44	Incorrect initial entry.	Danny Berger
Field Sheet-F46		Pole Sampler, CDI, 08650	Sampler	1/15/2018 11:45	No cleaning.	Danny Berger
Chain of Custody-G9-K9			Sampler	1/15/2018 12:47		Danny Berger
Chain of Custody-F9-G9			Sampler	1/15/2018 12:48		Danny Berger
Chain of Custody-F15-G15	4F 60ml Opaque HDPE/Filtered/ice		Sampler	1/15/2018 12:48	Incorrect initial entry.	Danny Berger
Chain of Custody-F17-G17	4F 60ml Opaque HDPE/Filtered/ice		Sampler	1/15/2018 12:48	Incorrect initial entry.	Danny Berger
Chain of Custody-H9-K9	4F 250ml Opaque HDPE/Filtered/ice		Sampler	1/15/2018 12:49	Incorrect initial entry.	Danny Berger
Calibration-A28			Sampler	1/15/2018 12:49		Danny Berger
Field Sheet-E31	Rain in morning.	1000	Sampler	1/15/2018 12:55	Incorrect initial entry.	Danny Berger
Field Sheet-E31	Rain in morning, 80s. Similar	Rain in morning, 80s. Similar	Sampler	1/15/2018 14:06	Incorrect initial entry.	Danny Berger
Field Sheet-F32	Similar	Rain in PM, Mid 80s.	dannyberger	1/15/2018 14:06	Similar	Danny Berger
Calibration-A17-H23			ChristophetLenhardt	1/16/2018 10:21	Rain in PM.	Danny Berger
				1/16/2018 10:38		Christopher Lenhardt

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 11/15/2018 17:44

DATE	TIME	SITE	Barometer (mmHg)	Temp (°C)	Sp Cond (µS/cm)	TDS (mg/L)	Sal (ppt)	pH	pH (mV)	TSS (mg/L)	Turbidity (NTU)	ODO (% Sat)	ODO (mg/L)	ODO (% LocalB)
11/15/2018	10:09:20 AM	af51781	762.3	27.9	50993.1	33146	33.39	7.67	-70.6	0	1.48	72.3	4.71	72.1
11/15/2018	10:11:02 AM	af51781	762.1	28.1	51620.3	33553	33.85	7.7	-72.9	0	2.28	68.8	4.46	68.6
11/15/2018	10:35:42 AM	af51784	762.1	27.9	51203.3	33282	33.55	7.7	-72.7	0	3.2	76.8	5	76.6
11/15/2018	11:06:50 AM	af51783	761.9	27.2	49942.5	32463	32.64	7.76	-76	0	0.51	88.6	5.86	88.4
11/15/2018	11:09:23 AM	af51783	761.9	27.9	50897.9	33084	33.32	7.76	-75.9	0	0.65	82.2	5.36	82
11/15/2018	11:13:30 AM	af51788	761.8	27.2	49915.8	32445	32.62	7.8	-76.5	0	0.46	90.6	5.99	90.4
11/15/2018	11:15:44 AM	af51788	761.8	28	51055.3	33186	33.44	7.76	-76	0	0.94	80	5.2	79.8
11/15/2018	11:37:50 AM	af51776	761.8	28.1	51960.3	33794	34.12	7.66	-70.5	0	1.74	75.4	4.88	75.2

Item No.	Item Description	Category	Quantity	Unit	Material	Rate	Amount	Notes	Remarks
441.170	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.171	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.172	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.173	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.174	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.175	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.176	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.177	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.178	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.179	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.180	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.181	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.182	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.183	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.184	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.185	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.186	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.187	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.188	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.189	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.190	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.191	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.192	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.193	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.194	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.195	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.196	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.197	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.198	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.199	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		
441.200	1142828 10.00 10.00000000	Item	1.00	EA	1000000000	1000000000	1000000000		



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Thursday, November 15, 2018
Sampler: Angela Carceras
Meter/Notes: Chris Lienhardt



Certificate No
[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: II

CCV: Morning		Sonde / Handheld	ProDSS #7	Serial #:	15K101015	
Date/Time:	11/15/18 6:45 AM	Operator:	Josh Gravlin	Project:	MARCO	
*** Conductivity ***				Associated Calibration File:		
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_7_110918.xlsm		
70000	11451	70266	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00						
10.00	11254	10.03	Pass	All CCV Results Pass?		
				Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria +3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.94	99.8	20.8	Pass	8.955	760.2
Notes:						
CCV: Afternoon		Date/Time:	11/15/2018 12:32	Operator:	Chris Lienhardt	
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	10548	10162	Pass			
70000	11451	70967	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00	11249	7.12	Pass	All CCV Results Pass?		
10.00	11254	10.03	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria +3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.43	98.5	23.1	Pass	8.566	760.3
Notes:						

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: II Meter / Chris Lienhardt Date: 11/15/2018
Sample Collector: Angela Carceras Notes:

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	ODO (% LocalB)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51774	8:26	WINDMILL	27.4	52186	34.29	80.8	5.29	7.78	0.30		2.20	1.10
AF51774B	8:28	WINDMILL	27.5	53249	35.07	72.5	4.72	7.81	1.90		2.20	1.10
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow: Flow.			Staff Gauge:		pH < 2: YES	

Comments: Light rain during sampling.

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51775	8:50	HOLLYHOCK	27.3	52894	34.81	64.3	4.20	7.74	0.30		1.30	1.30
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow: Flow.			Staff Gauge:		pH < 2: YES	

Comments: Light rain during sampling.

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51777	9:14	MCILVAINE	27.0	52881	34.81	77.4	5.09	7.91	0.30		1.30	0.80
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow: Flow.			Staff Gauge:		pH < 2: YES	

Comments: Visible outgoing tide.

LAB ID	TIME	STATION	TEMP. (°C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51778	9:34	E_WINTERBERRY_BRIDGE	27.5	52415	34.45	72.5	4.73	7.86	0.30		1.25	1.25
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow: Flow.			Staff Gauge:		pH < 2: YES	

Comments: Visible outgoing tide.

Bottles Per Site:	5	Matrix:	SW	Named storm event that impacted sampling event?	No
Bottles Shipped Per Site:	0	Weather:	Overcast and rainy changing to mostly sunny. Temps in 70s.		
Sampling SOP:	FSQM 03-02	24 HRS Prior Weather:	Mostly sunny and warm with evening showers.		

Prepared By: Christopher Lienhardt
Reviewed By: Angela Caceres
Signed: 11/15/2018 1:08:08 PM
Signed: 11/15/2018 1:26:13 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_IL_111518
4 of 11

Program: MARCO Run: II Meter / Chris Lienhardt Date: 11/15/2018
Sample Collector: Angela Carceras Notes:

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51780	10:14	BARFIELD_BRIDGE	26.4	49847	32.59	84.4	5.65	7.84	0.30		1.45	1.45

Collection Device: Pole Sampler, CDI: 10882
Cleaning Protocol: J
Flow: Flow.
Comments: Visible outgoing tide.
pH < 2: YES
Sample Type: SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51785	10:37	PERRINE										

Collection Device: [REDACTED]
Cleaning Protocol: [REDACTED]
Flow: [REDACTED]
Comments: No access to site. 1 picture by CL.
pH < 2: [REDACTED]
Sample Type: NO SAMPLE

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51782	10:49	COLLIER_BRIDGE	27.1	47030	30.52	85.3	5.73	7.87	0.30		0.90	0.90

Collection Device: Pole Sampler, CDI: 10882
Cleaning Protocol: J
Flow: Flow.
Comments: New seawall in place at site. Some erosion of sand behind wall evident at site. Walking near site caused some sand to come out of cracks in seawall and create turbidity.
pH < 2: YES
Sample Type: SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51779	11:16	W_WINTERBERRY_BRIDGE	27.2	52468	34.50	80.9	5.30	7.90	0.30		1.80	1.30
AF51779B	11:18	W_WINTERBERRY_BRIDGE	27.3	52493	34.52	79.5	5.21	7.90	1.50		1.80	1.30

Collection Device: Pole Sampler, CDI: 10882
Cleaning Protocol: J
Flow: Flow.
Comments: Van dorn snapped just prior to sampling. Sampled at empty lot upstream of site using pole sampler.
pH < 2: YES
Sample Type: SAMP

Number of Bottles at Each Site:	5	Matrix:	SW	Named storm event that impacted sampling event?	No
Number of Bottles Being Shipped:	0	Weather:	Overcast and rainy changing to mostly sunny. Temps in 70s.		
Sampling SOP Used:	FSQM 03-02	24 HRS Prior Weather:	Mostly sunny and warm with evening showers.		

Prepared By: Christopher Lienhardt
Reviewed By: Angela Carceras

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_IL_111518
5 of 11

Program: MARCO		Run: II	Sample Collector: Angela Carceras		Meter / Notes: Chris Lienhardt	Date: 11/15/2018						
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF51786	11:24	W_WINTERBERRY_BRIDGE										
Collection Device		Sample Container		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2: YES		
Comments:		FB taken from 10966 carboy.										
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:		Sample Type:										
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:		Sample Type:										
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:		Sample Type:										
Number of Bottles at Each Site:		5		Matrix: SW		Named storm event that impacted sampling event?		No				
Number of Bottles Being Shipped:		0		Weather:		Overcast and rainy changing to mostly sunny. Temps in 70s.						
Sampling SOP Used:		FSQM 03-02		24 HRS Prior Weather:		Mostly sunny and warm with evening showers.						
Prepared By:		Christopher Lienhardt										
Reviewed By:		Angela Carceras										



Collier County Pollution Control Department Chain of Custody
3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

NELAC Certification: #E45464

Phone: (239) 252-2502 FAX: (239) 252-6479

Client Information

Name: Rhonda Watkins
Company Name: Collier County Natural Resources
Address: 2685 South Horseshoe Drive Ste 103, Fl 34104
Phone: (239) 252-2502 Ext. 6049
Fax: (239) 252-6479

Project	MARCO	MATRIX CODES	Lot#	Prs. Vol.	Prs. Lot#	Prs. Supp.	Prs. Date	Initials
Sample Collector(s):		GW Ground Water	AF51363					
Angela Carceras		SW Surface Water	CDI10504	8 Drops	RP11330	Fisher	11/15/2018	CTL
Sample Collector Signature:		WW Waste Water	n/a					
		DW Drinking Water	CDI10095					
Relinquished By: (Signature)		Other	70180, 70624, 69632					
			A10217943, 10217944					

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	2C	3S	4F	5J	6N	Calc	# of sample Containers Submitted	Bottle Codes	Sample Check-In
11/15/2018	8:26	7.78	52186	0.30	WINDMILL	SW	1	1	1	1	1		1		AF-51774
11/15/2018	8:50	7.74	52894	0.30	HOLLYHOCK	SW	1	1	1	1	1		1		AF-51775
11/15/2018	9:14	7.91	52881	0.30	MCILVAINE	SW	1	1	1	1	1		1		AF-51777
11/15/2018	9:34	7.86	52415	0.30	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1		1		AF-51778
11/15/2018	10:14	7.84	49847	0.30	BARFIELD_BRIDGE	SW	1	1	1	1	1		1		AF-51780
11/15/2018	10:37			#N/A	PERRINE	SW									AF-51786
11/15/2018	10:49	7.87	47030	0.30	COLLIER_BRIDGE	SW	1	1	1	1	1		1		AF-51782
11/15/2018	11:16	7.90	52468	0.30	W_WINTERBERRY_BRIDGE	SW	1	1	1	1	1		1		AF-51779
11/15/2018	11:24	#N/A	#N/A	#N/A	W_WINTERBERRY_BRIDGE	SW	1	1	1	1	1		1		AF-51786

Parameters															
Sample Check-In															
Sample(s) Intact?															
Rec'd in wet ice?															
Temp °C:															
Proper Samp ID?															
Rec'd within hold time?															
Acid preserved samples pH<2?															
Cl Residual 0 ppm?															
Logged In?															
Scanned?															
Lab ID #															
Chlorophyll-P, Pheophytin-P, Prep-Chloro															
Nitrate-Nitrite-P, Nitrogen-TKN-P, Prep-TKN															
Nitrite-P															
Enterolign-P															
Phosphorus-IC-P, PC, Prep Metals															
TN-P, CC-Nitrate-N-P															

Notes:

AF-51785 not sampled due to restricted access to sample site.

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Cell Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst E-verified Signature
Field Sheet-H1	Danny Bajer	Angela Carceras	Sampler	11/15/2018 8:36	Incorrect initial entry.	Christopher Lienhard
Field Sheet-B8	Light rain during sampling	Light rain during sampling.	Sampler	11/15/2018 8:39	No reason given by user.	Christopher Lienhard
Field Sheet-M19		1.3	0.8 Sampler	11/15/2018 9:23	Incorrect initial entry.	Christopher Lienhard
Field Sheet-H28	No flow.	Flow.	Sampler	11/15/2018 10:10	No reason given by user.	Christopher Lienhard
Field Sheet-C37	W. WINTERBERRY,_ BRIDGE	BARFIELD, BRIDGE	Sampler	11/15/2018 10:37	Incorrect initial entry.	Christopher Lienhard
Field Sheet-B47	No sample.	No access to site.	Sampler	11/15/2018 10:37	Incorrect initial entry.	Christopher Lienhard
Field Sheet-B47	No sample.	No access to site.	Sampler	11/15/2018 10:37	Incorrect initial entry.	Christopher Lienhard
Field Sheet-B60	VanDorn; CDI: 08722	Pole Sampler; CDI: 10882	Sampler	11/15/2018 11:21	Incorrect initial entry.	Christopher Lienhard

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 11/15/2018 17:27

DATE	TIME	SITE	Barometer (mmHg)	Temp (°C)	Cond (µS/cm)	Sp Cond (µS/cm)	nLFCond (µS/cm)	Sal (ppt)	Sigma-T (± t)	Sigma (± t)	pH	pH (mV)	ODO (% Sat)	ODO (mg/L)	ODO (% LocalB)
11/15/2018	8:26:07 AM	#51774	761.8	27.4	54561.1	52185.6	51931.1	34.29	22.1	22.1	7.78	-66.5	81	5.29	80.8
11/15/2018	8:28:15 AM	#51774	761.7	27.5	55837.8	53246.4	52971.5	35.07	22.6	22.6	7.81	-67.9	72.7	4.72	72.5
11/15/2018	8:50:49 AM	#51775	762	27.3	55266.9	52894.3	52640.3	34.81	22.5	22.5	7.74	-64.1	64.4	4.2	64.3
11/15/2018	9:14:41 AM	#51777	761.9	27	54898.3	53880.5	52665.7	34.81	22.6	22.6	7.91	-73.8	77.6	5.09	77.4
11/15/2018	9:34:02 AM	#51778	762.1	27.5	54917.6	52414.8	52146.2	34.45	22.1	22.1	7.86	-71.2	72.7	4.73	72.5
11/15/2018	10:14:39 AM	#51780	762.1	26.4	51194.1	49647.3	49705.2	32.59	21.1	21.1	7.84	-69.9	84.6	5.65	84.4
11/15/2018	10:49:24 AM	#51782	761.9	27.1	48924.7	47030	46827.9	30.52	19.3	19.3	7.87	-71.8	85.5	5.73	85.3
11/15/2018	11:16:42 AM	#51779	761.8	27.2	54719.4	52468	52227.4	34.5	22.3	22.3	7.9	-73.1	81.1	5.3	80.9
11/15/2018	11:18:08 AM	#51779	761.7	27.3	54751	52493.3	52251.9	34.52	22.3	22.3	7.9	-73.6	79.7	5.21	79.5



Description: Site access restricted to PERRINE.



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

www.LiveGreenSaveBlue.com

Report To: Tonia Selmeski
City of Marco Island
50 Bald Eagle Drive
Marco Island, FL 34145

Collected by: CCPCD
Collection Date: 11/15/2018
Submittal Date: 11/15/2018 @ 12:31

Report Date : 12/19/2018
Report Time : 9:32:47AM

Report#: 1118_MRCO_II
Project: MARCO

Data Qualifier Code Key:

- I: The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- U: The compound was analyzed for but not detected
- Q: Sample held beyond acceptable holding time
- J: Estimate value; the reported value failed to meet established criteria for either precision or accuracy
- V: Analyte detected in both the sample and the associated method blank
- B: Colony count is generated from plates in which the total number of colonies is outside the method indicated ideal range
- Y: The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- *: This method is not a certified method.

Analyses performed using EPA or Standard Methods and certified to meet TNI Standards. Data qualifiers assigned according to F.A.C. 62-160. Results contained in this report relate only to the samples collected.



Respectfully Submitted,

Nosbel Perez

Nosbel Perez
Laboratory Supervisor

ANALYTICAL RESULTS

<i>Location:</i> WINDMILL		<i>Field ID:</i> AF51774		<i>Lab ID:</i> AF51774		<i>Collect Date/Time:</i> 11/15/18 08:26			
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	488	J	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.078	I	mg/L	0.032	0.160	8	12/14/2018	15:04
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	1.17		mg/L	0.230	0.500	1	11/21/2018	12:51
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	14:44
Field pH	FDEP SOP	7.8		pH units			1	11/15/2018	08:26
Pheophytin	SM 10200 H	1.70		mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	5.5		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:22
TN	TN	1.170		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

<i>Location:</i> HOLLYHOCK		<i>Field ID:</i> AF51775		<i>Lab ID:</i> AF51775		<i>Collect Date/Time:</i> 11/15/18 08:50			
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.017	IJ	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	20		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.070	I	mg/L	0.032	0.160	8	12/14/2018	15:14
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.690		mg/L	0.230	0.500	1	11/21/2018	12:54
Nitrate-Nitrite (N)	EPA 353.2	0.019	I	mg/L	0.011	0.020	1	11/15/2018	14:35
Field pH	FDEP SOP	7.7		pH units			1	11/15/2018	08:50
Chlorophyll a	SM 10200 H	4.7		mg/m3	1.00	1.00	1	12/07/2018	13:43
Pheophytin	SM 10200 H	5.50		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	IJ	mg/L	0.002	0.005	1	11/15/2018	15:50
TN	TN	0.709		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

<i>Location:</i> HUMMINGBIRD		<i>Field ID:</i> AF51776		<i>Lab ID:</i> AF51776		<i>Collect Date/Time:</i> 11/15/18 11:37			
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	09:36
Enterococci	Enterolert/QT	10	U	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.067	I	mg/L	0.032	0.160	8	12/14/2018	15:17
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.875		mg/L	0.230	0.500	1	11/21/2018	13:12
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	14:52

Field pH	FDEP SOP	7.7		pH units			1	11/15/2018	11:37
Pheophytin	SM 10200 H	2.90		mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	8.7		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:26
TN	TN	0.875		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

<i>Location:</i> MCILVAINE		<i>Field ID:</i> AF51777		<i>Lab ID:</i> AF51777			<i>Collect Date/Time:</i> 11/15/18 09:14		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.016	I	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	30		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.072	I	mg/L	0.032	0.160	8	12/14/2018	15:20
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.809		mg/L	0.230	0.500	1	11/21/2018	12:57
Nitrate-Nitrite (N)	EPA 353.2	0.018	I	mg/L	0.011	0.020	1	11/15/2018	14:40
Field pH	FDEP SOP	7.9		pH units			1	11/15/2018	09:14
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	3.5		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	I	mg/L	0.002	0.005	1	11/15/2018	15:20
TN	TN	0.827		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

<i>Location:</i> E_WINTERBERRY_BRIDGE		<i>Field ID:</i> AF51778		<i>Lab ID:</i> AF51778			<i>Collect Date/Time:</i> 11/15/18 09:34		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	20		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.085	I	mg/L	0.032	0.160	8	12/14/2018	15:33
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.961		mg/L	0.230	0.500	1	11/21/2018	12:55
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	14:42
Field pH	FDEP SOP	7.9		pH units			1	11/15/2018	09:34
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	22.9		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:21
TN	TN	0.961		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

<i>Location:</i> W_WINTERBERRY_BRIDGE		<i>Field ID:</i> AF51779		<i>Lab ID:</i> AF51779			<i>Collect Date/Time:</i> 11/15/18 11:16		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	

CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	74		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.071	I	mg/L	0.032	0.160	8	12/14/2018	15:36
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.967		mg/L	0.230	0.500	1	11/21/2018	12:50
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	14:49
Field pH	FDEP SOP	7.9		pH units			1	11/15/2018	11:16
Pheophytin	SM 10200 H	1.10		mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	8.3		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:24
TN	TN	0.967		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: BARFIELD_BRIDGE		Field ID: AF51780		Lab ID: AF51780			Collect Date/Time: 11/15/18 10:14		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.029		mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	663		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.072	I	mg/L	0.032	0.160	8	12/14/2018	15:39
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.675		mg/L	0.230	0.500	1	11/21/2018	12:52
Nitrate-Nitrite (N)	EPA 353.2	0.029		mg/L	0.011	0.020	1	11/15/2018	14:47
Field pH	FDEP SOP	7.8		pH units			1	11/15/2018	10:14
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	4.6		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:23
TN	TN	0.704		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: JH_PARK		Field ID: AF51781		Lab ID: AF51781			Collect Date/Time: 11/15/18 10:09		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.015	I	mg/L	0.011	0.020	1	11/16/2018	09:36
Enterococci	Enterolert/QT	768		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.052	I	mg/L	0.032	0.160	8	12/14/2018	15:42
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.920		mg/L	0.230	0.500	1	11/21/2018	13:13
Nitrate-Nitrite (N)	EPA 353.2	0.015	I	mg/L	0.011	0.020	1	11/15/2018	14:54
Field pH	FDEP SOP	7.7		pH units			1	11/15/2018	10:09
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	3.3		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24

Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:27
TN	TN	0.935		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: COLLIER_BRIDGE		Field ID: AF51782		Lab ID: AF51782			Collect Date/Time: 11/15/18 10:49		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.057		mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	24196	Z	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.149	I	mg/L	0.032	0.160	8	12/14/2018	15:46
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.459	I	mg/L	0.230	0.500	1	11/21/2018	12:44
Nitrate-Nitrite (N)	EPA 353.2	0.057		mg/L	0.011	0.020	1	11/15/2018	14:45
Field pH	FDEP SOP	7.9		pH units			1	11/15/2018	10:49
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	4.6		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:22
TN	TN	0.516		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: HC_CENTER		Field ID: AF51783		Lab ID: AF51783			Collect Date/Time: 11/15/18 11:06		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	UJ	mg/L	0.011	0.020	1	11/16/2018	09:36
Enterococci	Enterolert/QT	158	J	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.058	I	mg/L	0.032	0.160	8	12/14/2018	16:02
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.853	J	mg/L	0.230	0.500	1	11/21/2018	13:06
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	15:04
Field pH	FDEP SOP	7.8		pH units			1	11/15/2018	11:06
Pheophytin	SM 10200 H	1.00	UJ	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	6.6	J	mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	UJ	mg/L	0.002	0.005	1	11/15/2018	15:32
TN	TN	0.853	J	mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: KENDALL		Field ID: AF51784		Lab ID: AF51784			Collect Date/Time: 11/15/18 10:35		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	09:36
Enterococci	Enterolert/QT	431		mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.062	I	mg/L	0.032	0.160	8	12/14/2018	16:12
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25

Nitrogen- Total Kjeldahl	EPA 351.2	1.03		mg/L	0.230	0.500	1	11/21/2018	13:11
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	15:07
Field pH	FDEP SOP	7.7		pH units			1	11/15/2018	10:35
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	5.0		mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:34
TN	TN	1.030		mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: FCEB_MARCO		Field ID: AF51786		Lab ID: AF51786			Collect Date/Time: 11/15/18 11:24		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	08:47
Enterococci	Enterolert/QT	10	U	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.004	U	mg/L	0.004	0.020	1	12/14/2018	16:19
Digestion for Metals	EPA 200.8	Completed					1	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.230	U	mg/L	0.230	0.500	1	11/21/2018	12:48
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	14:51
Chlorophyll a	SM 10200 H	1.0	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:25
TN	TN	<MDL	U	mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: EB_MARCO		Field ID: AF51787		Lab ID: AF51787			Collect Date/Time: 11/15/18 09:57		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	11/16/2018	09:36
Enterococci	Enterolert/QT	10	U	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.004	U	mg/L	0.004	0.020	1	12/14/2018	16:22
Digestion for Metals	EPA 200.8	Completed					1	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.230	U	mg/L	0.230	0.500	1	11/21/2018	12:59
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	15:08
Chlorophyll a	SM 10200 H	1.0	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Pheophytin	SM 10200 H	1.00	U	mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:35
TN	TN	<MDL	U	mg/L	0.230	0.500	1	11/21/2018	15:10

ANALYTICAL RESULTS

Location: DUP1		Field ID: AF51788		Lab ID: AF51788			Collect Date/Time: 11/15/18 11:13		
Analyte Name	Method	Result	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	

CC-Nitrate-N	CC-Nitrate-N	<MDL	U	mg/L	0.011	0.020	1	12/07/2018	12:15
Enterococci	Enterolert/QT	63	J	mpn/100ml	10	10	10	11/15/2018	14:51
Phosphorus- Total	EPA 200.8	0.048	I	mg/L	0.032	0.160	8	12/14/2018	16:15
Digestion for Metals	EPA 200.8	Completed					8	12/12/2018	09:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.623	J	mg/L	0.230	0.500	1	11/21/2018	12:58
Nitrate-Nitrite (N)	EPA 353.2	0.011	U	mg/L	0.011	0.020	1	11/15/2018	15:09
Pheophytin	SM 10200 H	1.10	J	mg/m3	1.00	1.00	1	12/07/2018	13:43
Chlorophyll a	SM 10200 H	3.9	J	mg/m3	1.00	1.00	1	12/07/2018	13:43
Filtration for Chlorophyll and Pheo	SM 10200 H	Completed					1	11/16/2018	14:24
Digestion for TKN	SM 4500 NorgD	Complete					1	11/20/2018	10:52
Nitrite (N)	SM 4500-NO2 B	0.002	U	mg/L	0.002	0.005	1	11/15/2018	15:36
TN	TN	0.623	J	mg/L	0.230	0.500	1	11/21/2018	15:10