



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Thursday, August 16, 2018

Sampler: Geoff Rosenaw

Meter/Notes: Josh Gravlin



Certificate No

[4262.01](#)

Client: City of Marco Island

Project: Marco Island

Run: I

| | | | | | | |
|---|-----------------|------------------|-----------------|-------------------------------------|--------------|---------------------|
| CCV: Morning | | Sonde / Handheld | ProDSS #7 | Serial #: | 15K101015 | |
| Date/Time: | 8/16/18 6:48 AM | Operator: | Josh Gravlin | Project: | MARCO | |
| *** Conductivity *** | | | | Associated Calibration File: | | |
| Standard (µmhos/cm) ± 5% | CDI# | Reading | Pass/Fail | Calibration_7_081018.xlsm | | |
| 2000 | 09650 | 2002 | Pass | | | |
| *** pH *** | | | | | | |
| pH (QA Criteria +.2) | CDI# | Reading | Pass/Fail | | | |
| 4.00 | | | | | | |
| 7.00 | 11058 | 7.04 | Pass | All CCV Results Pass? | | |
| 10.00 | | | | Yes | | |
| *** Dissolved Oxygen *** | | | | | | |
| D.O. (QA Criteria ±3mg/l) | mg/L | % | °C | Pass/Fail | True Value | Barometric Pressure |
| CCV Readings ---> | 8.85 | 100.2 | 21.5 | Pass | 8.869 | 763.3 |
| Notes: | | | | | | |
| | | | | | | |
| CCV: Afternoon | | Date/Time: | 8/16/2018 14:10 | Operator: | Josh Gravlin | |
| *** Conductivity *** | | | | | | |
| Standard (µmhos/cm) ± 5% | CDI# | Reading | Pass/Fail | | | |
| 10000 | 10548 | 10178 | Pass | | | |
| 70000 | 11041 | 69789 | Pass | | | |
| *** pH *** | | | | | | |
| pH (QA Criteria +.2) | CDI# | Reading | Pass/Fail | | | |
| 4.00 | | | | | | |
| 7.00 | 11058 | 7.08 | Pass | All CCV Results Pass? | | |
| 10.00 | 11055 | 10.02 | Pass | Yes | | |
| *** Dissolved Oxygen *** | | | | | | |
| D.O. (QA Criteria ±3mg/l) | mg/L | % | °C | Pass/Fail | True Value | Barometric Pressure |
| CCV Readings ---> | 8.29 | 100.2 | 24.9 | Pass | 8.319 | 763.8 |
| Notes: | | | | | | |
| | | | | | | |
| Surface Water Field Workbook Rev 13.6 Effective July 11th, 2018 | | | | | | |

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Geoff Rosenaw

Meter / Notes: Josh Gravlin

Date: 8/16/2018

| 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) |
|---------|------|----------|-----------|-----------------|-----------|-----------------|------------|----|-----------------------|--------------------|----------------------|-----------------------|
| AF49797 | 9:47 | WINDMILL | | | | | | | | | | |

Collection Device: VanDorn; CDI: 08722
Cleaning Protocol: [Redacted]
Flow: [Redacted]
Staff Gauge: [Redacted]
pH < 2: Yes

Comments: EB collected from CDI 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) |
|----------|-------|----------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49784 | 9:59 | WINDMILL | 30.8 | 51327 | 33.54 | 93.0 | 5.81 | 8.07 | 0.30 | [Redacted] | 3.30 | 1.80 |
| AF49784B | 10:01 | WINDMILL | 30.5 | 51624 | 33.77 | 81.1 | 5.08 | 8.05 | 3.00 | [Redacted] | 3.30 | 1.80 |

Collection Device: VanDorn; CDI: 08722
Cleaning Protocol: J
Flow: Flow.
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) |
|---------|-------|-----------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49785 | 10:21 | HOLLYHOCK | 30.7 | 51631 | 33.77 | 75.0 | 4.69 | 7.99 | 0.30 | [Redacted] | 1.00 | 1.00 |

Collection Device: Pole Sampler; CDI: 08650
Cleaning Protocol: J
Flow: No flow.
No visible tidal movement. Algae mats on water surface. Lawn clippings on water surface. Suspended solids visible in sample water.

| 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) |
|---------|-------|-------------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49786 | 10:38 | HUMMINGBIRD | 31.0 | 51261 | 33.49 | 78.6 | 4.89 | 8.02 | 0.30 | [Redacted] | 1.20 | 1.20 |

Collection Device: Pole Sampler; CDI: 08650
Cleaning Protocol: J
Flow: Flow.
Visibly outgoing tide. Construction barge 50 feet from sample site during sampling event.

| | | | | | |
|---------------------------|------------|-----------------------|-------------------------|---|----|
| Bottles Per Site: | 5 | Matrix: | SW | Named storm event that impacted sampling event? | No |
| Bottles Shipped Per Site: | 0 | Weather: | Sunny. High in the 90s. | | |
| Sampling SOP: | FSQM 03-02 | 24 HRS Prior Weather: | Similar. | | |

Prepared By: Joshua Gravlin
Signed: 8/24/2018 11:31:12 AM

Reviewed By: Geoff Rosenaw
Signed: 8/28/2018 12:31:17 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: I Meter / Josh Gravlin Date: 8/16/2018
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) |
|-------------------|-------|--------------------------|------------|------------------------|----------------|----------------|-------------|--------------|-----------------------|--------------------|----------------------|-----------------------|
| AF49787 | 11:27 | MCILVAINE | 30.5 | 52439 | 34.37 | 91.9 | 5.74 | 8.09 | 0.30 | | 2.50 | 1.50 |
| AF49787B | 11:28 | MCILVAINE | 30.4 | 52638 | 34.52 | 93.7 | 5.86 | 8.10 | 2.20 | | 2.50 | 1.50 |
| Collection Device | | Pole Sampler, CDI: 08650 | | Cleaning Protocol: J | | Flow: No flow. | | Staff Gauge: | | pH < 2: Yes | | |

Comments: No visible tidal movement.

| 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) |
|-------------------|-------|--------------------------|------------|------------------------|----------------|----------------|-------------|--------------|-----------------------|--------------------|----------------------|-----------------------|
| AF49788 | 11:51 | E_WINTERBERRY_BRIDGE | 31.4 | 51924 | 33.96 | 93.9 | 5.80 | 8.09 | 0.30 | | 1.40 | 1.40 |
| Collection Device | | Pole Sampler, CDI: 08650 | | Cleaning Protocol: J | | Flow: No flow. | | Staff Gauge: | | pH < 2: Yes | | |

Comments: Vegetative debris on water surface. No visible tidal movement. Bats under bridge near site.

| 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) |
|-------------------|-------|--------------------------|------------|------------------------|----------------|----------------|-------------|--------------|-----------------------|--------------------|----------------------|-----------------------|
| AF49798 | 11:57 | E_WINTERBERRY_BRIDGE | 31.5 | 51934 | 33.96 | 96.0 | 5.92 | 8.08 | 0.30 | | 1.40 | 1.40 |
| Collection Device | | Pole Sampler, CDI: 08650 | | Cleaning Protocol: J | | Flow: No flow. | | Staff Gauge: | | pH < 2: Yes | | |

Comments: Vegetative debris on water surface. No visible tidal movement. Bats under bridge near site.

| 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: Yes | | |

Comments:

| | | | | | |
|----------------------------------|------------|----------|-------------------------|---|----|
| Number of Bottles at Each Site: | 5 | Matrix: | SW | Named storm event that impacted sampling event? | No |
| Number of Bottles Being Shipped: | 0 | Weather: | Sunny. High in the 90s. | | |
| Sampling SOP Used: | FSQM 03-02 | | 24 HRS Prior Weather: | Similar. | |

Prepared By: Joshua Gravlin
Reviewed By: Geoff Rosenaw

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: 1 Sample Collector: Geoff Rosenaw Meter / Notes: Josh Gravlin Date: 8/16/2018

| 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 | 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 | 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 | SAMPLE DEPTH (meters) | STAFF GAUGE (feet) | WATER DEPTH (meters) | 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: | Sunny. High in the 90s. | |
| Sampling SOP Used: | FSQM 03-02 | 24 HRS Prior Weather: | Similar. | |

Prepared By: Joshua Gravlin
Reviewed By: Geoff Rosenaw

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: I Meter / Josh Gravlin Date: 8/16/2018
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) |
|--------|------|---------|----------------|---------------------------|-------------------|-----------------|----------------|----|-----------------------------|--------------------------|----------------------------|-----------------------------|
| | | | | | | | | | | | | |

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 | 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 | SAMPLE DEPTH (meters) | STAFF GAUGE (feet) | WATER DEPTH (meters) | SECCHI DEPTH (meters) |
|--------|------|---------|----------------|---------------------------|-------------------|-----------------|----------------|----|-----------------------------|--------------------------|----------------------------|-----------------------------|
| | | | | | | | | | | | | |

Collection Device
Comments: Field 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 | SAMPLE DEPTH (meters) | STAFF GAUGE (feet) | WATER DEPTH (meters) | SECCHI DEPTH (meters) |
|--------|------|---------|----------------|---------------------------|-------------------|-----------------|----------------|----|-----------------------------|--------------------------|----------------------------|-----------------------------|
| | | | | | | | | | | | | |

Collection Device
Comments: Cleaning Protocol: Flow: pH < 2; Sample Type:

| | | | |
|----------------------------------|------------|---|-------------------------|
| Number of Bottles at Each Site: | 5 | Named storm event that impacted sampling event? | No |
| Number of Bottles Being Shipped: | 0 | Weather: | Sunny, High in the 90s. |
| Sampling SOP Used: | FSQM 03-02 | 24 HRS Prior Weather: | Similar. |

Prepared By: Joshua Gravlin
Reviewed By: Geoff Rosenaw



Collier County Pollution Control Department Chain of Custody
3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112
Phone: (239) 252-2502 FAX: (239) 252-6479

NELAC Certification: #E45464

| Client Information | | | PRESERVATION CODES | | | Matrix Codes | | | Parameters | | | Sample Check-In | | |
|---|----------|----------|---|--------------|----------------------|---|-----------------|-----------|---|-----------|-----------------|--|----------------------------------|----------|
| Name: | Address: | Phone: | Project | MARCO | MATRIX CODES | Date/Time | 8/16/18 2:29 PM | Date/Time | 8/16/18 2:29 PM | Date/Time | 8/16/18 2:29 PM | Date/Time | 8/16/18 2:29 PM | |
| 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 | | | 2C 1L Opaque HDPE/Light-shielded/Ice 3S 125ml HDPE/MSO4/Ice 4F 250ml HDPE/Filtered/Ice 5I 120ml HDPE w/Sodium Thiosulfate/Ice 6N 250ml HDPE/HNO3 14 Whatman Polydisc GW 0.45µm | | | GW Ground Water SW Surface Water WW Waste Water DW Drinking Water Other | | | Nitrate-Nitrite-PC, Nitrogen-TKN-PC, Prep-TKN Nitrite-PC Enteric-PC Phosphorus-tCP-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 time? Acid preserved samples pH<2? CI Residual 0 ppm? Logged In? Scanned? | | |
| Bottle Codes | | | | | | | | | | | | | | |
| Date | Time | Field pH | Sp. Cond. | Sample Depth | Location | Matrix | 2C | 3S | 4F | 5I | 6N | Calc | # of sample Containers Submitted | Lab ID # |
| 8/16/2018 | 9:47 | #N/A | #N/A | #N/A | WINDMILL | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49797 |
| 8/16/2018 | 9:59 | 8.07 | 51327 | 0.30 | WINDMILL | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49784 |
| 8/16/2018 | 10:21 | 7.99 | 51631 | 0.30 | HOLLYHOCK | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49785 |
| 8/16/2018 | 10:38 | 8.02 | 51261 | 0.30 | HUMMINGBIRD | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49786 |
| 8/16/2018 | 11:27 | 8.09 | 52439 | 0.30 | MCILVAINE | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49787 |
| 8/16/2018 | 11:51 | 8.09 | 51924 | 0.30 | E_WINTERBERRY_BRIDGE | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49788 |
| 8/16/2018 | 11:57 | 8.08 | 51934 | 0.30 | REPLICATE | SW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | AF-49798 |

Notes:

| Sheet & Cell Reference | Initial Value | Changed To | User | Date & Time | Reason For Change | Analyst Verified Signature |
|------------------------|---|--|---------|-----------------|------------------------|----------------------------|
| Field Sheet-B22 | No visible tidal movement. Lagae mats on water surface. Lawn clippings on water surface. | No visible tidal movement. Algae mats on water surface. Lawn clippings on water surface. Suspended solids visible in sample water. | Sampler | 8/16/2018 10:43 | Added sampler comments | Joshua Gravlin |

KerDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 8/16/2018 18:15

| 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) |
|-----------|-------------|---------|------------------|-----------|-----------------|------------|-----------|------|---------|------------|-----------------|-------------|------------|----------------|
| 8/16/2018 | 9:59:37 AM | wind | 764.7 | 30.8 | 51326.8 | 33362 | 33.54 | 8.07 | -63.7 | 0 | 3 | 93.6 | 5.81 | 93 |
| 8/16/2018 | 10:01:04 AM | wind | 764.8 | 30.5 | 51624.4 | 33556 | 33.77 | 8.05 | -62.9 | 0 | 5.14 | 81.6 | 5.08 | 81.1 |
| 8/16/2018 | 10:21:25 AM | af49785 | 765.1 | 30.7 | 51630.5 | 33560 | 33.77 | 7.99 | -59.2 | 0 | 4.94 | 75.5 | 4.89 | 75 |
| 8/16/2018 | 10:38:31 AM | af49786 | 764.9 | 31 | 51260.8 | 33320 | 33.49 | 8.02 | -60.9 | 0 | 2.19 | 79.1 | 4.89 | 78.6 |
| 8/16/2018 | 11:27:08 AM | af49787 | 765.1 | 30.5 | 52439.2 | 34085 | 34.37 | 8.09 | -65.2 | 0 | 3.81 | 92.5 | 5.74 | 91.9 |
| 8/16/2018 | 11:28:22 AM | af49787 | 765.1 | 30.4 | 52637.6 | 34214 | 34.52 | 8.1 | -65.9 | 0 | 8.45 | 94.3 | 5.86 | 93.7 |
| 8/16/2018 | 11:51:09 AM | af49788 | 765.2 | 31.4 | 51924.4 | 33751 | 33.96 | 8.09 | -64.9 | 0 | 3.57 | 94.6 | 5.8 | 93.9 |
| 8/16/2018 | 11:57:26 AM | af49796 | 765.1 | 31.5 | 51934.1 | 33757 | 33.96 | 8.08 | -64.8 | 0 | 3.97 | 96.7 | 5.92 | 96 |

| Call ID | Customer Name | Product | Category | Priority | Status | Assigned To | Start Time | End Time | Duration | Resolution | Notes |
|---------|-----------------------|-----------|------------|----------|----------|-------------|------------|----------|----------|--------------------------|--------------------|
| 001 | John Doe | Product A | Category 1 | High | Resolved | Agent A | 10:00 | 10:15 | 15 min | Issue resolved via chat | Customer satisfied |
| 002 | Jane Smith | Product B | Category 2 | Medium | Resolved | Agent B | 10:05 | 10:20 | 15 min | Issue resolved via phone | Customer satisfied |
| 003 | Bob Johnson | Product A | Category 1 | Low | Resolved | Agent A | 10:10 | 10:25 | 15 min | Issue resolved via email | Customer satisfied |
| 004 | Alice Brown | Product C | Category 3 | High | Resolved | Agent C | 10:15 | 10:30 | 15 min | Issue resolved via chat | Customer satisfied |
| 005 | Charlie Davis | Product B | Category 2 | Medium | Resolved | Agent B | 10:20 | 10:35 | 15 min | Issue resolved via phone | Customer satisfied |
| 006 | Diana Prince | Product A | Category 1 | Low | Resolved | Agent A | 10:25 | 10:40 | 15 min | Issue resolved via email | Customer satisfied |
| 007 | Edward Nigma | Product C | Category 3 | High | Resolved | Agent C | 10:30 | 10:45 | 15 min | Issue resolved via chat | Customer satisfied |
| 008 | Fiona Gale | Product B | Category 2 | Medium | Resolved | Agent B | 10:35 | 10:50 | 15 min | Issue resolved via phone | Customer satisfied |
| 009 | George Clooney | Product A | Category 1 | Low | Resolved | Agent A | 10:40 | 10:55 | 15 min | Issue resolved via email | Customer satisfied |
| 010 | Helen Mirren | Product C | Category 3 | High | Resolved | Agent C | 10:45 | 11:00 | 15 min | Issue resolved via chat | Customer satisfied |
| 011 | Idris Elba | Product B | Category 2 | Medium | Resolved | Agent B | 10:50 | 11:05 | 15 min | Issue resolved via phone | Customer satisfied |
| 012 | Jessie J | Product A | Category 1 | Low | Resolved | Agent A | 10:55 | 11:10 | 15 min | Issue resolved via email | Customer satisfied |
| 013 | Keanu Reeves | Product C | Category 3 | High | Resolved | Agent C | 11:00 | 11:15 | 15 min | Issue resolved via chat | Customer satisfied |
| 014 | Liam Neeson | Product B | Category 2 | Medium | Resolved | Agent B | 11:05 | 11:20 | 15 min | Issue resolved via phone | Customer satisfied |
| 015 | Mel Gibson | Product A | Category 1 | Low | Resolved | Agent A | 11:10 | 11:25 | 15 min | Issue resolved via email | Customer satisfied |
| 016 | Nicole Kidman | Product C | Category 3 | High | Resolved | Agent C | 11:15 | 11:30 | 15 min | Issue resolved via chat | Customer satisfied |
| 017 | Orlando Bloom | Product B | Category 2 | Medium | Resolved | Agent B | 11:20 | 11:35 | 15 min | Issue resolved via phone | Customer satisfied |
| 018 | Penelope Cruz | Product A | Category 1 | Low | Resolved | Agent A | 11:25 | 11:40 | 15 min | Issue resolved via email | Customer satisfied |
| 019 | Ryan Reynolds | Product C | Category 3 | High | Resolved | Agent C | 11:30 | 11:45 | 15 min | Issue resolved via chat | Customer satisfied |
| 020 | Sandra Bullock | Product B | Category 2 | Medium | Resolved | Agent B | 11:35 | 11:50 | 15 min | Issue resolved via phone | Customer satisfied |
| 021 | Tom Cruise | Product A | Category 1 | Low | Resolved | Agent A | 11:40 | 11:55 | 15 min | Issue resolved via email | Customer satisfied |
| 022 | Uma Thurman | Product C | Category 3 | High | Resolved | Agent C | 11:45 | 12:00 | 15 min | Issue resolved via chat | Customer satisfied |
| 023 | Will Smith | Product B | Category 2 | Medium | Resolved | Agent B | 11:50 | 12:05 | 15 min | Issue resolved via phone | Customer satisfied |
| 024 | Xosha Roquemore | Product A | Category 1 | Low | Resolved | Agent A | 11:55 | 12:10 | 15 min | Issue resolved via email | Customer satisfied |
| 025 | Yvonne Strainopoulos | Product C | Category 3 | High | Resolved | Agent C | 12:00 | 12:15 | 15 min | Issue resolved via chat | Customer satisfied |
| 026 | Zoe Lister-Jones | Product B | Category 2 | Medium | Resolved | Agent B | 12:05 | 12:20 | 15 min | Issue resolved via phone | Customer satisfied |
| 027 | Adam Sandler | Product A | Category 1 | Low | Resolved | Agent A | 12:10 | 12:25 | 15 min | Issue resolved via email | Customer satisfied |
| 028 | Michelle Williams | Product C | Category 3 | High | Resolved | Agent C | 12:15 | 12:30 | 15 min | Issue resolved via chat | Customer satisfied |
| 029 | Brad Pitt | Product B | Category 2 | Medium | Resolved | Agent B | 12:20 | 12:35 | 15 min | Issue resolved via phone | Customer satisfied |
| 030 | Cate Blanchett | Product A | Category 1 | Low | Resolved | Agent A | 12:25 | 12:40 | 15 min | Issue resolved via email | Customer satisfied |
| 031 | Diary of a Wimpy Kid | Product C | Category 3 | High | Resolved | Agent C | 12:30 | 12:45 | 15 min | Issue resolved via chat | Customer satisfied |
| 032 | Diary of a Young Girl | Product B | Category 2 | Medium | Resolved | Agent B | 12:35 | 12:50 | 15 min | Issue resolved via phone | Customer satisfied |
| 033 | Diary of a Teen Girl | Product A | Category 1 | Low | Resolved | Agent A | 12:40 | 12:55 | 15 min | Issue resolved via email | Customer satisfied |
| 034 | Diary of a Princess | Product C | Category 3 | High | Resolved | Agent C | 12:45 | 13:00 | 15 min | Issue resolved via chat | Customer satisfied |
| 035 | Diary of a Queen | Product B | Category 2 | Medium | Resolved | Agent B | 12:50 | 13:05 | 15 min | Issue resolved via phone | Customer satisfied |
| 036 | Diary of a Warrior | Product A | Category 1 | Low | Resolved | Agent A | 12:55 | 13:10 | 15 min | Issue resolved via email | Customer satisfied |
| 037 | Diary of a Hero | Product C | Category 3 | High | Resolved | Agent C | 13:00 | 13:15 | 15 min | Issue resolved via chat | Customer satisfied |
| 038 | Diary of a King | Product B | Category 2 | Medium | Resolved | Agent B | 13:05 | 13:20 | 15 min | Issue resolved via phone | Customer satisfied |
| 039 | Diary of a Knight | Product A | Category 1 | Low | Resolved | Agent A | 13:10 | 13:25 | 15 min | Issue resolved via email | Customer satisfied |
| 040 | Diary of a Prince | Product C | Category 3 | High | Resolved | Agent C | 13:15 | 13:30 | 15 min | Issue resolved via chat | Customer satisfied |
| 041 | Diary of a Princess | Product B | Category 2 | Medium | Resolved | Agent B | 13:20 | 13:35 | 15 min | Issue resolved via phone | Customer satisfied |
| 042 | Diary of a Warrior | Product A | Category 1 | Low | Resolved | Agent A | 13:25 | 13:40 | 15 min | Issue resolved via email | Customer satisfied |
| 043 | Diary of a Hero | Product C | Category 3 | High | Resolved | Agent C | 13:30 | 13:45 | 15 min | Issue resolved via chat | Customer satisfied |
| 044 | Diary of a King | Product B | Category 2 | Medium | Resolved | Agent B | 13:35 | 13:50 | 15 min | Issue resolved via phone | Customer satisfied |
| 045 | Diary of a Knight | Product A | Category 1 | Low | Resolved | Agent A | 13:40 | 13:55 | 15 min | Issue resolved via email | Customer satisfied |
| 046 | Diary of a Prince | Product C | Category 3 | High | Resolved | Agent C | 13:45 | 14:00 | 15 min | Issue resolved via chat | Customer satisfied |
| 047 | Diary of a Princess | Product B | Category 2 | Medium | Resolved | Agent B | 13:50 | 14:05 | 15 min | Issue resolved via phone | Customer satisfied |
| 048 | Diary of a Warrior | Product A | Category 1 | Low | Resolved | Agent A | 13:55 | 14:10 | 15 min | Issue resolved via email | Customer satisfied |
| 049 | Diary of a Hero | Product C | Category 3 | High | Resolved | Agent C | 14:00 | 14:15 | 15 min | Issue resolved via chat | Customer satisfied |
| 050 | Diary of a King | Product B | Category 2 | Medium | Resolved | Agent B | 14:05 | 14:20 | 15 min | Issue resolved via phone | Customer satisfied |



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Thursday, August 16, 2018

Sampler: Danny Berger

Meter/Notes: Chris Lienhardt



Certificate No
[4262.01](#)

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

| | | | | | | | |
|---|-----------------|------------------|-----------------|-------------------------------------|-------------------------------------|---------------------|--|
| CCV: Morning | | Sonde / Handheld | ProDSS #9 | Serial #: | 18E104142 | | |
| Date/Time: | 8/16/18 6:48 AM | Operator: | Josh Gravlin | Project: | MARCO | | |
| *** Conductivity *** | | | | | Associated Calibration File: | | |
| Standard (µmhos/cm) ± 5% | CDI# | Reading | Pass/Fail | Calibration_9_081418.xlsm | | | |
| 2000 | 09650 | 2019 | Pass | | | | |
| *** pH *** | | | | | | | |
| pH (QA Criteria ±.2) | CDI# | Reading | Pass/Fail | | | | |
| 4.00 | | | | All CCV Results Pass? Yes | | | |
| 7.00 | 11058 | 7.04 | Pass | | | | |
| 10.00 | | | | | | | |
| *** Dissolved Oxygen *** | | | | | | | |
| D.O. (QA Criteria ±3mg/l) | mg/L | % | °C | Pass/Fail | True Value | Barometric Pressure | |
| CCV Readings ---> | 8.93 | 100.6 | 21.2 | Pass | 8.933 | 764.3 | |
| Notes: | | | | | | | |
| | | | | | | | |
| CCV: Afternoon | | Date/Time: | 8/16/2018 13:18 | Operator: | Chris Lienhardt | | |
| *** Conductivity *** | | | | | Associated Calibration File: | | |
| Standard (µmhos/cm) ± 5% | CDI# | Reading | Pass/Fail | Calibration_9_081418.xlsm | | | |
| 10000 | 10548 | 10219 | Pass | | | | |
| 70000 | 11041 | 70265 | Pass | | | | |
| *** pH *** | | | | | | | |
| pH (QA Criteria ±.2) | CDI# | Reading | Pass/Fail | All CCV Results Pass? Yes | | | |
| 4.00 | | | | | | | |
| 7.00 | 11058 | 7.15 | Pass | | | | |
| 10.00 | 11055 | 10.03 | Pass | | | | |
| *** Dissolved Oxygen *** | | | | | | | |
| D.O. (QA Criteria ±3mg/l) | mg/L | % | °C | Pass/Fail | True Value | Barometric Pressure | |
| CCV Readings ---> | 8.40 | 99.9 | 24.0 | Pass | 8.472 | 764.9 | |
| Notes: | | | | | | | |
| | | | | | | | |
| Surface Water Field Workbook Rev 13.6 Effective July 11th, 2018 | | | | | | | |

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: II Meter / Chris Lienhardt Date: 8/16/2018
Sample Collector: Danny Berger 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) |
|---------|------|---------|-----------|-----------------|-----------|----------------|------------|----|-----------------------|--------------------|----------------------|-----------------------|
| AF49795 | 9:52 | PERRINE | | | | | | | | | | |

Collection Device: [Redacted] Cleaning Protocol: [Redacted] Flow: [Redacted] pH < 2: [Redacted]
Staff Gauge: [Redacted]

Comments: No sample collected. Site no longer accessible due to new home construction. Picture by CL.

| 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) |
|---------|-------|---------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49794 | 10:05 | KENDALL | 31.0 | 51684 | 33.80 | 79.9 | 4.98 | 7.94 | 0.30 | | 1.00 | 1.00 |

Collection Device: Pole Sampler; CDI: 08652 Cleaning Protocol: J Flow: Flow.
Comments:

| 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) |
|----------|-------|----------------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49792 | 10:24 | COLLIER_BRIDGE | 31.1 | 51491 | 33.65 | 74.5 | 4.64 | 7.87 | 0.30 | | 2.20 | 2.20 |
| AF49792B | 10:26 | COLLIER_BRIDGE | 31.1 | 51733 | 33.83 | 74.4 | 4.63 | 7.89 | 1.90 | | 2.20 | 2.20 |

Collection Device: Pole Sampler; CDI: 08652 Cleaning Protocol: J Flow: Flow.
Comments: Seawall in various state of collapse.

| 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) |
|----------|-------|-----------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49793 | 10:45 | HC_CENTER | 31.2 | 51597 | 33.73 | 81.0 | 5.03 | 7.87 | 0.30 | | 1.90 | 1.90 |
| AF49793B | 10:48 | HC_CENTER | 31.1 | 51630 | 33.75 | 76.8 | 4.77 | 7.87 | 1.60 | | 1.90 | 1.90 |

Collection Device: Pole Sampler; CDI: 08652 Cleaning Protocol: J Flow: Flow.
Comments: Some comb jellyfish present in water.

| | | | | | |
|---------------------------|------------|-----------------------|--|---|----|
| Bottles Per Site: | 5 | Matrix: | SW | Named storm event that impacted sampling event? | No |
| Bottles Shipped Per Site: | 0 | Weather: | Sunny and warm. Temps in the 90s. | | |
| Sampling SOP: | FSQM 03-02 | 24 HRS Prior Weather: | similar with strong afternoon showers and T-storms | | |

Prepared By: Christopher Lienhardt Signed: 8/16/2018 2:20:55 PM
Reviewed By: Danny Berger Signed: 8/16/2018 3:30:17 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_IL_081618.xlsm
4 of 11

Program: MARCO Run: II Meter / Chris Lienhardt Date: 8/16/2018
Sample Collector: Danny Berger 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) |
|-------------------|--------------------------|---------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49791 | 11:11 | JH_PARK | 31.2 | 51950 | 33.99 | 82.7 | 5.13 | 7.91 | 0.30 | | 3.60 | 2.20 |
| AF49791B | 11:13 | JH_PARK | 31.3 | 51978 | 34.01 | 81.3 | 5.04 | 7.90 | 3.30 | | 3.60 | 2.20 |
| Collection Device | Pole Sampler; CDI: 08652 | | | Cleaning Protocol: J | | Flow: | | | Staff Gauge: | | pH < 2: | YES |

Comments: Boat went past just prior to 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) |
|-------------------|------------------|---------|------------|------------------------|----------------|--------------|-------------|----|-----------------------|--------------------|----------------------|-----------------------|
| AF49796 | 11:20 | JH_PARK | | | | | | | | | | |
| Collection Device | Sample Container | | | Cleaning Protocol: | | Flow: | | | Staff Gauge: | | pH < 2: | YES |

Comments: FB taken from CDI08334 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) |
|-------------------|--------------------------|-----------------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49790 | 11:50 | BARFIELD_BRIDGE | 30.8 | 52752 | 34.59 | 107.3 | 6.67 | 8.03 | 0.30 | | 1.60 | 1.60 |
| AF49790B | 11:52 | BARFIELD_BRIDGE | 30.8 | 52822 | 34.65 | 107.8 | 6.71 | 8.03 | 1.30 | | 1.60 | 1.60 |
| Collection Device | Pole Sampler; CDI: 08652 | | | Cleaning Protocol: J | | Flow: | | | Staff Gauge: | | pH < 2: | YES |

Comments: Boat went past just prior to 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) |
|-------------------|--------------------------|----------------------|------------|------------------------|----------------|--------------|-------------|------|-----------------------|--------------------|----------------------|-----------------------|
| AF49789 | 12:17 | W_WINTERBERRY_BRIDGE | 31.2 | 52615 | 34.48 | 95.7 | 5.92 | 7.96 | 0.30 | | 2.00 | 1.80 |
| AF49789B | 12:19 | W_WINTERBERRY_BRIDGE | 31.2 | 52693 | 34.54 | 92.5 | 5.72 | 7.95 | 1.70 | | 2.00 | 1.80 |
| Collection Device | Pole Sampler; CDI: 08652 | | | Cleaning Protocol: J | | Flow: | | | Staff Gauge: | | pH < 2: | YES |

Comments:

| | | | |
|----------------------------------|------------|---|--|
| Number of Bottles at Each Site: | 5 | Named storm event that impacted sampling event? | No |
| Number of Bottles Being Shipped: | 0 | Weather: | Sunny and warm. Temps in the 90s. |
| Sampling SOP Used: | FSQM 03-02 | 24 HRS Prior Weather: | similar with strong afternoon showers and T-storms |

Prepared By: Christopher Lienhardt

Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

| Program: MARCO | | Run: II | | Sample Collector: Danny Berger | | Meter / Notes: Chris Lienhardt | | Date: 8/16/2018 | | | | |
|---|------|---------|-------------|--------------------------------|----------------|--------------------------------|-------------|-----------------|-----------------------|--------------------|----------------------|-----------------------|
| 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 | 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 | SAMPLE DEPTH (meters) | STAFF GAUGE (feet) | WATER DEPTH (meters) | 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: | Sunny and warm. Temps in the 90s. | |
| Sampling SOP Used: | FSQM 03-02 | 24 HRS Prior Weather: | similar with strong afternoon showers and T-storms | |

Prepared By: Christopher Lienhardt
Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO Run: II Meter / Chris Lienhardt Date: 8/16/2018
Sample Collector: Danny Berger 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: 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: 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: pH < 2; Sample Type: | | | | | | | | | | | | |

| | | | |
|----------------------------------|------------|---|--|
| Number of Bottles at Each Site: | 5 | Named storm event that impacted sampling event? | No |
| Number of Bottles Being Shipped: | 0 | Weather: | Sunny and warm. Temps in the 90s. |
| Sampling SOP Used: | FSQM 03-02 | 24 HRS Prior Weather: | similar with strong afternoon showers and T-storms |

Prepared By: Christopher Lienhardt
Reviewed By: Danny Berger



Collier County Pollution Control Department Chain of Custody

3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

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

NELAC Certification: #E45464

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):
 Danny Berger
 Sample Collector Signature:
 DW Drinking Water
 Relinquished By: (Signature)

Date/Time: 8/16/18 1:25 PM
 Date/Time: 8/16/18 1:25 PM
 Date/Time:
 Date/Time:

PRESERVATION CODES
 2C 1L Opaque HDPE/Light-shielded/Ice
 3S 125ml HDPE/12504/Ice
 4F 250ml HDPE/Filtered/Ice
 5I 120ml HDPE w/Sodium Thiosulfate/Ice
 6N 250ml HDPE/JIN03
 14 Whatman Polydisc GW 0.45um

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 |
|-----------|-----------|-----------|------------|-----------|----------|
| AF48537 | | | | | |
| CD110506 | 8 Drops | RP10769 | Fisher | 8/16/2018 | CTL |
| CD110490 | | | | | |
| CD110097 | | | | | |
| CD110490 | | | | | |
| A10217944 | | | | | |

| Parameters | | | | | | | | | | Sample Check-In | | |
|---|----|----|----|------|----------------------------------|--|--|--|--|-----------------|----------|--|
| 3S | 4F | 5I | 6N | Calc | # of sample Containers Submitted | | | | | Logged In? | Lab ID # | |
| Chlorophyll-PC, Pheophytin-PC, Prep-Chloro | | | | | | | | | | | | |
| Nitrate-Nitrite-PC, Nitrogen-TKN-PC, Prep-TKN | | | | | | | | | | | | |
| Nitrite-PC | | | | | | | | | | | | |
| Enterolact-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 time? | | | | | | | | | | | | |
| Acid preserved samples pH<2? | | | | | | | | | | | | |
| CI Residual 0 ppm? | | | | | | | | | | | | |
| Scanned? | | | | | | | | | | | | |

Notes:

AF49795 not collected due to accessibility issues with 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 Verified Signature |
|------------------------|--|---|----------------------|-----------------|-----------------------------|----------------------------|
| Field Sheet-B37 | 0.459027778 | 0.465972222 | Sampler | 8/16/2018 11:18 | Incorrect initial entry. | Christopher Lienhardt |
| Field Sheet-C51 | W_WINTERBERRY_BRIDGE | BARFIELD_BRIDGE | ChristopherLienhardt | 8/16/2018 11:44 | Incorrect initial entry. | Christopher Lienhardt |
| Field Sheet-H30 | No | Yes | dannyberger | 8/16/2018 14:15 | No reason given by user. | Christopher Lienhardt |
| Field Sheet-B8 | No sample collected. Site no longer accessible due to new home construction. Pictures by CL. | No sample collected. Site no longer accessible due to new home construction. Picture by CL. | dannyberger | 8/16/2018 15:28 | Changed pictures to picture | Danny Berger |
| Field Sheet-H30 | Yes | No | dannyberger | 8/16/2018 15:30 | Incorrect initial entry. | Danny Berger |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 8/16/2018 17:14

| DATE | TIME | SITE | Barometer (mmHg) | Temp (°C) | Cond (µS/cm) | Sp Cond (µS/cm) | nLFCCond (µS/cm) | Sal (ppt) | Sigma-T (e-1) | Sigma (s) | pH | pH (mV) | ORP (mV) | ODO (% Sat) | ODO (mg/L) | ODO (% LocalB) |
|-----------|-------------|---------|------------------|-----------|--------------|-----------------|------------------|-----------|---------------|-----------|------|---------|----------|-------------|------------|----------------|
| 8/16/2018 | 10:05:40 AM | s marco | 766 | 31 | 57576.6 | 51683.5 | 51021.7 | 33.8 | 20.5 | 20.5 | 7.94 | -89.7 | 153.4 | 80.6 | 4.98 | 79.9 |
| 8/16/2018 | 10:24:42 AM | af49792 | 765.9 | 31.1 | 57477.9 | 51490.9 | 50817.7 | 33.85 | 20.3 | 20.3 | 7.87 | -85.8 | 185.2 | 75.1 | 4.84 | 74.5 |
| 8/16/2018 | 10:26:29 AM | af49792 | 765.9 | 31.1 | 57786.1 | 51732.9 | 51054.2 | 33.83 | 20.5 | 20.5 | 7.89 | -87.1 | 126.1 | 75 | 4.63 | 74.4 |
| 8/16/2018 | 10:45:51 AM | af49793 | 765.8 | 31.2 | 57697.4 | 51596.8 | 50910 | 33.73 | 20.4 | 20.4 | 7.87 | -85.9 | 116 | 81.6 | 5.03 | 81 |
| 8/16/2018 | 10:48:40 AM | af49793 | 765.8 | 31.1 | 57687.3 | 51630.3 | 50948.8 | 33.75 | 20.4 | 20.4 | 7.87 | -86.1 | 108.2 | 77.4 | 4.77 | 76.8 |
| 8/16/2018 | 11:11:18 AM | af49791 | 766 | 31.2 | 58147 | 51950.4 | 51252.3 | 33.99 | 20.5 | 20.5 | 7.91 | -88.2 | 157.6 | 83.4 | 5.13 | 82.7 |
| 8/16/2018 | 11:13:02 AM | af49791 | 766 | 31.3 | 58190.7 | 51978 | 51278.1 | 34.01 | 20.5 | 20.5 | 7.9 | -87.8 | 114.2 | 82 | 5.04 | 81.3 |
| 8/16/2018 | 11:50:07 AM | af49790 | 766 | 30.8 | 58610.3 | 52752 | 52095.4 | 34.58 | 21.1 | 21.1 | 8.03 | -95.1 | 105.4 | 108.1 | 6.67 | 107.3 |
| 8/16/2018 | 11:52:01 AM | af49790 | 766.1 | 30.8 | 58950.5 | 52822 | 52160 | 34.65 | 21.2 | 21.2 | 8.03 | -95.4 | 103.7 | 108.6 | 6.71 | 107.8 |
| 8/16/2018 | 12:17:13 PM | af49789 | 766 | 31.2 | 58853.1 | 52615.3 | 51912.9 | 34.48 | 20.9 | 20.9 | 7.96 | -91.5 | 114.2 | 96.4 | 5.92 | 95.7 |
| 8/16/2018 | 12:19:02 PM | af49789 | 765.9 | 31.2 | 58916.1 | 52692.8 | 51992.3 | 34.54 | 21 | 21 | 7.95 | -90.7 | 100.6 | 93.3 | 5.72 | 92.5 |



Description: New home construction blocking former Perine site.



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: 08/16/2018
Submittal Date: 08/16/2018 @ 14:29

Report Date : 10/5/2018
Report Time : 2:55:17PM

Report#: 0818_MRCO_1
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> AF49784 | | <i>Lab ID:</i> AF49784 | | <i>Collect Date/Time:</i> 8/16/18 09:59 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|---|----|--------------------|
| 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 | 08/17/2018 09:28 |
| Enterococci | Enterolert/QT | 63 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.084 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 14:08 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.595 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 14:13 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 17:16 |
| Field pH | FDEP SOP | 8.1 | | pH units | | | 1 | 08/16/2018 09:59 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 |
| Chlorophyll a | SM 10200 H | 9.6 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/16/2018 18:54 |
| TN | TN | 0.595 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> HOLLYHOCK | | <i>Field ID:</i> AF49785 | | <i>Lab ID:</i> AF49785 | | <i>Collect Date/Time:</i> 8/16/18 10:21 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|---|----|--------------------|
| 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 | 08/17/2018 09:28 |
| Enterococci | Enterolert/QT | 211 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.091 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 14:12 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 1.14 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 14:11 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 17:18 |
| Field pH | FDEP SOP | 8.0 | | pH units | | | 1 | 08/16/2018 10:21 |
| Pheophytin | SM 10200 H | 1.40 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 |
| Chlorophyll a | SM 10200 H | 7.6 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 18:55 |
| TN | TN | 1.140 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> HUMMINGBIRD | | <i>Field ID:</i> AF49786 | | <i>Lab ID:</i> AF49786 | | <i>Collect Date/Time:</i> 8/16/18 10:38 | | |
|------------------------------|---------------|--------------------------|-----------|------------------------|-------|---|----|--------------------|
| 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 | 08/17/2018 09:28 |
| Enterococci | Enterolert/QT | 4884 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.086 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 14:15 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.875 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 14:09 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 17:19 |

| | | | | | | | | | |
|-------------------------------------|---------------|-----------|---|----------|-------|-------|---|------------|-------|
| Field pH | FDEP SOP | 8.0 | | pH units | | | 1 | 08/16/2018 | 10:38 |
| Pheophytin | SM 10200 H | 1.30 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 8.1 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:58 |
| TN | TN | 0.875 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> MCILVAINE | | <i>Field ID:</i> AF49787 | | <i>Lab ID:</i> AF49787 | | | <i>Collect Date/Time:</i> 8/16/18 11:27 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:31 |
| Enterococci | Enterolert/QT | 305 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.069 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:18 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.590 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:02 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | UJ | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:58 |
| Field pH | FDEP SOP | 8.1 | | pH units | | | 1 | 08/16/2018 | 11:27 |
| Pheophytin | SM 10200 H | 1.30 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 3.4 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 19:02 |
| TN | TN | 0.590 | J | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> E_WINTERBERRY_BRIDGE | | <i>Field ID:</i> AF49788 | | <i>Lab ID:</i> AF49788 | | | <i>Collect Date/Time:</i> 8/16/18 11:51 | | |
|---------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| Analyte Name | Method | Result | Qualifier | Units | MDL | PQL | DF | Analysis Date/Time | |
| CC-Nitrate-N | CC-Nitrate-N | 0.013 | IG | mg/L | 0.011 | 0.020 | 1 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 573 | J | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.065 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:21 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.602 | J | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:10 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.017 | IG | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:34 |
| Field pH | FDEP SOP | 8.1 | | pH units | | | 1 | 08/16/2018 | 11:51 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 | 08:50 |
| Chlorophyll a | SM 10200 H | 6.9 | | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 | 08:50 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.004 | I | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 19:05 |
| TN | TN | 0.619 | JG | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> W_WINTERBERRY_BRIDGE | | <i>Field ID:</i> AF49789 | | <i>Lab ID:</i> AF49789 | | | <i>Collect Date/Time:</i> 8/16/18 12:17 | | |
|---------------------------------------|--------|--------------------------|-----------|------------------------|-----|-----|---|--------------------|--|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 52 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.064 | U | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:43 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.834 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:39 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:01 |
| Field pH | FDEP SOP | 8.0 | | pH units | | | 1 | 08/16/2018 | 12:17 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 5.3 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:46 |
| TN | TN | 0.834 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> BARFIELD_BRIDGE | | <i>Field ID:</i> AF49790 | | <i>Lab ID:</i> AF49790 | | | <i>Collect Date/Time:</i> 8/16/18 11:50 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 74 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.064 | U | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:52 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.652 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:35 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:06 |
| Field pH | FDEP SOP | 8.0 | | pH units | | | 1 | 08/16/2018 | 11:50 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 5.4 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:49 |
| TN | TN | 0.652 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> JH_PARK | | <i>Field ID:</i> AF49791 | | <i>Lab ID:</i> AF49791 | | | <i>Collect Date/Time:</i> 8/16/18 11:11 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 85 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.076 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:55 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.747 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:17 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:08 |
| Field pH | FDEP SOP | 7.9 | | pH units | | | 1 | 08/16/2018 | 11:11 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 6.1 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |

| | | | | | | | | | |
|-------------------|---------------|----------|---|------|-------|-------|---|------------|-------|
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:49 |
| TN | TN | 0.747 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> COLLIER_BRIDGE | | <i>Field ID:</i> AF49792 | | <i>Lab ID:</i> AF49792 | | | <i>Collect Date/Time:</i> 8/16/18 10:24 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 110 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.075 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 14:58 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.569 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:38 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:11 |
| Field pH | FDEP SOP | 7.9 | | pH units | | | 1 | 08/16/2018 | 10:24 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 3.6 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:51 |
| TN | TN | 0.569 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> HC_CENTER | | <i>Field ID:</i> AF49793 | | <i>Lab ID:</i> AF49793 | | | <i>Collect Date/Time:</i> 8/16/18 10:45 | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 63 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.082 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 15:01 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.767 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:14 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:09 |
| Field pH | FDEP SOP | 7.9 | | pH units | | | 1 | 08/16/2018 | 10:45 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 5.6 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:50 |
| TN | TN | 0.767 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location:</i> KENDALL | | <i>Field ID:</i> AF49794 | | <i>Lab ID:</i> AF49794 | | | <i>Collect Date/Time:</i> 8/16/18 10:05 | | |
|--------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|-------|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 211 | | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.073 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 15:04 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |

| | | | | | | | | | |
|-------------------------------------|---------------|-----------|---|----------|-------|-------|---|------------|-------|
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.553 | | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:16 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:13 |
| Field pH | FDEP SOP | 7.9 | | pH units | | | 1 | 08/16/2018 | 10:05 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Chlorophyll a | SM 10200 H | 5.1 | | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 | 10:30 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 18:52 |
| TN | TN | 0.553 | | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |

ANALYTICAL RESULTS

| <i>Location: FCEB_MARCO</i> | | <i>Field ID: AF49796</i> | | <i>Lab ID: AF49796</i> | | | <i>Collect Date/Time: 8/16/18 11:20</i> | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|--|
| 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 | 08/17/2018 09:28 | |
| Enterococci | Enterolert/QT | 10 | U | mpn/100ml | 10 | 10 | 10 | 08/16/2018 15:10 | |
| Phosphorus- Total | EPA 200.8 | 0.064 | U | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 15:07 | |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 10:00 | |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.230 | U | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 14:37 | |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 17:14 | |
| Chlorophyll a | SM 10200 H | 1.0 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 | |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 08/28/2018 10:30 | |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 14:15 | |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 11:25 | |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 18:53 | |
| TN | TN | <MDL | U | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 11:01 | |

ANALYTICAL RESULTS

| <i>Location: EB_MARCO</i> | | <i>Field ID: AF49797</i> | | <i>Lab ID: AF49797</i> | | | <i>Collect Date/Time: 8/16/18 09:47</i> | | |
|-------------------------------------|---------------|--------------------------|-----------|------------------------|-------|-------|---|--------------------|--|
| 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 | 08/17/2018 09:28 | |
| Enterococci | Enterolert/QT | 1 | U | mpn/100ml | 1 | 1 | 1 | 08/16/2018 15:10 | |
| Phosphorus- Total | EPA 200.8 | 0.008 | U | mg/L | 0.008 | 0.020 | 1 | 09/12/2018 15:14 | |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 1 | 09/11/2018 10:00 | |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.230 | U | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 14:07 | |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.015 | I | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 17:35 | |
| Chlorophyll a | SM 10200 H | 1.0 | U | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 08:50 | |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 08:50 | |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 14:15 | |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 11:25 | |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 19:06 | |
| TN | TN | 0.230 | U | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 11:01 | |

ANALYTICAL RESULTS

| <i>Location: DUP1</i> | | <i>Field ID: AF49798</i> | | <i>Lab ID: AF49798</i> | | | <i>Collect Date/Time: 8/16/18 11:57</i> | | |
|-----------------------|--------|--------------------------|-----------|------------------------|-----|-----|---|--------------------|--|
| 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 | 08/17/2018 | 09:28 |
| Enterococci | Enterolert/QT | 439 | J | mpn/100ml | 10 | 10 | 10 | 08/16/2018 | 15:10 |
| Phosphorus- Total | EPA 200.8 | 0.071 | I | mg/L | 0.064 | 0.160 | 8 | 09/12/2018 | 15:10 |
| Digestion for Metals | EPA 200.8 | Completed | | | | | 8 | 09/11/2018 | 10:00 |
| Nitrogen- Total Kjeldahl | EPA 351.2 | 0.791 | J | mg/L | 0.230 | 0.500 | 1 | 08/27/2018 | 14:06 |
| Nitrate-Nitrite (N) | EPA 353.2 | 0.011 | U | mg/L | 0.011 | 0.020 | 1 | 08/16/2018 | 17:36 |
| Field pH | FDEP SOP | 8.1 | | pH units | | | 1 | 08/16/2018 | 11:57 |
| Pheophytin | SM 10200 H | 1.00 | U | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 | 08:50 |
| Chlorophyll a | SM 10200 H | 6.9 | | mg/m3 | 1.00 | 1.00 | 1 | 09/07/2018 | 08:50 |
| Filtration for Chlorophyll and Pheo | SM 10200 H | Completed | | | | | 1 | 08/16/2018 | 14:15 |
| Digestion for TKN | SM 4500 NorgD | Complete | | | | | 1 | 08/24/2018 | 11:25 |
| Nitrite (N) | SM 4500-NO2 B | 0.002 | U | mg/L | 0.002 | 0.005 | 1 | 08/17/2018 | 19:07 |
| TN | TN | 0.791 | J | mg/L | 0.230 | 0.500 | 1 | 08/28/2018 | 11:01 |