

# Laboratory Results

## Lee County Environmental Laboratory

60-2 Danley Drive  
Fort Myers, FL 33907  
239-533-8600



To: Natural Resources Management  
1500 Monroe St  
Fort Myers FL 33901  
RE: Tidal Caloosa

Report Date: 5/7/2018

Below are the results of samples submitted to this laboratory on 4/18/2018

|                    |           |                          |                   |
|--------------------|-----------|--------------------------|-------------------|
| Laboratory ID      | AD72666   | Collection date and time | 4/18/2018 9:40 AM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN     |
| Sample Description | Grid #387 |                          |                   |

| Analyte Name                             | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 1.36   | I         | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 0.64   | I         | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.6    | I         | mg/L         | 0.3   | 1.2   | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 26.2   |           | CU           | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 6.73   |           | mg/L         | 0.1   |       | 4/18/2018     | 9:40 AM       | FDEP FT1500     |
| Enterococci                              | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                       | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                  | 0.014  | U         | mg/L as N    | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                                  | 0.003  | V1 I      | mg/L as N    | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate                                  | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                        | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                        | 0.86   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN - NH3       |
| Phosphorus, Ortho                        | 0.041  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client              | 24.73  |           | SU           | 0.1   |       | 4/18/2018     | 9:40 AM       | FDEP FT 1300    |
| Water Clarity Secchi Disk, by Client     | 1.6    |           | meters       | 0.1   |       | 4/18/2018     | 9:40 AM       | FDEP FT 1700    |
| Silica, dissolved as SiO2                | 0.62   |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                      | 3.0    |           | Meters       |       |       | 4/18/2018     | 9:40 AM       | FS2100          |
| Nitrogen, Kjeldahl, Total                | 0.86   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | EPA 351.2       |
| Nitrogen, Total                          | 0.86   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN + NOX       |
| Total Organic Carbon                     | 7.9    |           | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |

|                    |           |                          |                   |
|--------------------|-----------|--------------------------|-------------------|
| Laboratory ID      | AD72666   | Collection date and time | 4/18/2018 9:40 AM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN     |
| Sample Description | Grid #387 |                          |                   |

| Analyte Name              | Result | Qualifier | Units     | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|---------------------------|--------|-----------|-----------|-------|-------|---------------|---------------|-----------------|
| Phosphorus, Total         | 0.067  |           | mg/L as P | 0.006 | 0.024 | 4/20/2018     | 10:07 AM      | EPA 365.1       |
| Total Suspended Solids    | 9.35   |           | mg/L      | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric) | 1.26   |           | NTU       | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

|                    |                  |                          |                    |
|--------------------|------------------|--------------------------|--------------------|
| Laboratory ID      | AD72667          | Collection date and time | 4/18/2018 10:00 AM |
| Location Code      | CRNEP_RSBOT      | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #387 Bottom |                          |                    |

| Analyte Name                             | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 1.23   | I         | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 0.73   | I         | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.6    | I         | mg/L         | 0.3   | 1.2   | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 18.3   |           | CU           | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 6.36   |           | mg/L         | 0.1   |       | 4/18/2018     | 10:00 AM      | FDEP FT1500     |
| Enterococci                              | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                       | 20     |           | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                  | 0.014  | U         | mg/L as N    | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                                  | 0.003  | U         | mg/L as N    | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate                                  | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                        | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                        | 0.89   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN - NH3       |
| Phosphorus, Ortho                        | 0.031  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client              | 31.1   |           | SU           | 0.1   |       | 4/18/2018     | 10:00 AM      | FDEP FT 1300    |
| Silica, dissolved as SiO2                | 0.94   |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                      | 3.0    |           | Meters       |       |       | 4/18/2018     | 10:00 AM      | FS2100          |
| Nitrogen, Kjeldahl, Total                | 0.89   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | EPA 351.2       |
| Nitrogen, Total                          | 0.89   |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN + NOX       |
| Total Organic Carbon                     | 6.0    |           | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |
| Phosphorus, Total                        | 0.059  |           | mg/L as P    | 0.006 | 0.024 | 4/20/2018     | 10:07 AM      | EPA 365.1       |
| Total Suspended Solids                   | 21.7   |           | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)                | 1.73   |           | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

|                    |           |                          |                    |
|--------------------|-----------|--------------------------|--------------------|
| Laboratory ID      | AD72668   | Collection date and time | 4/18/2018 11:35 AM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #455 |                          |                    |

| Analyte Name                             | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 4.52   |           | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 9.26   |           | mg/M3        | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.6    | I         | mg/L         | 0.3   | 1.2   | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 56.6   |           | CU           | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 6.85   |           | mg/L         | 0.1   |       | 4/18/2018     | 11:35 AM      | FDEP FT1500     |
| Enterococci                              | 10     |           | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                       | 31     |           | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                  | 0.037  | I         | mg/L as N    | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                                  | 0.009  | V1 I      | mg/L as N    | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate                                  | 0.115  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                        | 0.124  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                        | 1.1    |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN - NH3       |
| Phosphorus, Ortho                        | 0.101  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client              | 4.14   |           | SU           | 0.1   |       | 4/18/2018     | 11:35 AM      | FDEP FT 1300    |
| Water Clarity Secchi Disk, by Client     | 0.9    |           | meters       | 0.1   |       | 4/18/2018     | 11:35 AM      | FDEP FT 1700    |
| Silica, dissolved as SiO2                | 6.4    |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                      | 1.4    |           | Meters       |       |       | 4/18/2018     | 11:35 AM      | FS2100          |
| Nitrogen, Kjeldahl, Total                | 1.1    |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | EPA 351.2       |
| Nitrogen, Total                          | 1.2    |           | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN + NOX       |
| Total Organic Carbon                     | 15     |           | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |
| Phosphorus, Total                        | 0.15   |           | mg/L as P    | 0.006 | 0.024 | 4/20/2018     | 10:07 AM      | EPA 365.1       |
| Total Suspended Solids                   | 6.45   |           | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)                | 3.40   |           | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

|                    |           |                          |                    |
|--------------------|-----------|--------------------------|--------------------|
| Laboratory ID      | AD72670   | Collection date and time | 4/18/2018 12:25 PM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #463 |                          |                    |

| Analyte Name                             | Result | Qualifier | Units | MDL | PQL | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|-------|-----|-----|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 8.40   |           | mg/M3 | 0.5 | 2.0 | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 9.94   |           | mg/M3 | 0.5 | 2.0 | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.6    | I         | mg/L  | 0.3 | 1.2 | 4/19/2018     | 10:40 AM      | SM20 5210 B     |

|                    |           |                          |                    |
|--------------------|-----------|--------------------------|--------------------|
| Laboratory ID      | AD72670   | Collection date and time | 4/18/2018 12:25 PM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #463 |                          |                    |

| Analyte Name                            | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|-----------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Color                                   | 57.4   |           | CU           | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client | 7.18   |           | mg/L         | 0.1   |       | 4/18/2018     | 12:25 PM      | FDEP FT1500     |
| Enterococci                             | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                      | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                 | 0.049  | I         | mg/L as N    | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                                 | 0.009  | V1 I      | mg/L as N    | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate                                 | 0.124  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                       | 0.133  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                       | 0.70   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN - NH3       |
| Phosphorus, Ortho                       | 0.098  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client             | 3.42   |           | SU           | 0.1   |       | 4/18/2018     | 12:25 PM      | FDEP FT 1300    |
| Water Clarity Secchi Disk, by Client    | 0.6    | S         | meters       | 0.1   |       | 4/18/2018     | 12:25 PM      | FDEP FT 1700    |
| Silica, dissolved as SiO2               | 6.6    |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                     | 0.6    |           | Meters       |       |       | 4/18/2018     | 12:25 PM      | FS2100          |
| Nitrogen, Kjeldahl, Total               | 0.75   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | EPA 351.2       |
| Nitrogen, Total                         | 0.88   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN + NOX       |
| Total Organic Carbon                    | 14     |           | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |
| Phosphorus, Total                       | 0.18   |           | mg/L as P    | 0.006 | 0.024 | 4/24/2018     | 9:10 AM       | EPA 365.1       |
| Total Suspended Solids                  | 29.1   |           | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)               | 12.8   |           | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

|                    |           |                          |                    |
|--------------------|-----------|--------------------------|--------------------|
| Laboratory ID      | AD72671   | Collection date and time | 4/18/2018 12:05 PM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #462 |                          |                    |

| Analyte Name                             | Result | Qualifier | Units     | MDL | PQL | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|-----------|-----|-----|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 15.59  |           | mg/M3     | 0.5 | 2.0 | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 6.06   |           | mg/M3     | 0.5 | 2.0 | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.9    | I         | mg/L      | 0.3 | 1.2 | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 58.2   |           | CU        | 1.6 | 6.4 | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 7.72   |           | mg/L      | 0.1 |     | 4/18/2018     | 12:05 PM      | FDEP FT1500     |
| Enterococci                              | 10     | U         | MPN/100mL | 10  |     | 4/18/2018     | 2:58 PM       | Enterolert®     |

Laboratory ID AD72671  
 Location Code CRNEP\_RS  
 Sample Description Grid #462

Collection date and time 4/18/2018 12:05 PM  
 Sample Collector REISTAD/DUGAN

| Analyte Name                         | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|--------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| E.coli Enumeration                   | 10     | U         | MPN/100mL    | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                              | 0.014  | U         | mg/L as N    | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                              | 0.009  | V1 I      | mg/L as N    | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate                              | 0.096  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                    | 0.105  |           | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                    | 0.93   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN - NH3       |
| Phosphorus, Ortho                    | 0.098  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client          | 3.92   |           | SU           | 0.1   |       | 4/18/2018     | 12:05 PM      | FDEP FT 1300    |
| Water Clarity Secchi Disk, by Client | 0.9    |           | meters       | 0.1   |       | 4/18/2018     | 12:05 PM      | FDEP FT 1700    |
| Silica, dissolved as SiO2            | 6.5    |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                  | 1.6    |           | Meters       |       |       | 4/18/2018     | 12:05 PM      | FS2100          |
| Nitrogen, Kjeldahl, Total            | 0.93   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | EPA 351.2       |
| Nitrogen, Total                      | 1.0    |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN + NOX       |
| Total Organic Carbon                 | 15     |           | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |
| Phosphorus, Total                    | 0.16   |           | mg/L as P    | 0.006 | 0.024 | 4/24/2018     | 9:10 AM       | EPA 365.1       |
| Total Suspended Solids               | 6.15   |           | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)            | 4.09   |           | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

Laboratory ID AD72673  
 Location Code CRNEP\_RS  
 Sample Description Grid #423

Collection date and time 4/18/2018 10:40 AM  
 Sample Collector REISTAD/DUGAN

| Analyte Name                             | Result | Qualifier | Units     | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|-----------|-------|-------|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 9.15   |           | mg/M3     | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 1.88   | I         | mg/M3     | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 1.9    |           | mg/L      | 0.3   | 1.2   | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 47.9   |           | CU        | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 8.29   |           | mg/L      | 0.1   |       | 4/18/2018     | 10:40 AM      | FDEP FT1500     |
| Enterococci                              | 10     | U         | MPN/100mL | 10    |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                       | 10     | U         | MPN/100mL | 10    |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                  | 0.014  | U         | mg/L as N | 0.014 | 0.056 | 4/19/2018     | 1:01 PM       | EPA 350.1       |
| Nitrite                                  | 0.003  | U         | mg/L as N | 0.003 | 0.012 | 4/19/2018     | 7:56 AM       | EPA 353.2       |

|                    |           |                          |                    |
|--------------------|-----------|--------------------------|--------------------|
| Laboratory ID      | AD72673   | Collection date and time | 4/18/2018 10:40 AM |
| Location Code      | CRNEP_RS  | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | Grid #423 |                          |                    |

| Analyte Name                         | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|--------------------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Nitrate                              | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                    | 0.010  | U         | mg/L as N    | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                    | 0.72   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN - NH3       |
| Phosphorus, Ortho                    | 0.068  |           | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client          | 13.4   |           | SU           | 0.1   |       | 4/18/2018     | 10:40 AM      | FDEP FT 1300    |
| Water Clarity Secchi Disk, by Client | 1.05   |           | meters       | 0.1   |       | 4/18/2018     | 10:40 AM      | FDEP FT 1700    |
| Silica, dissolved as SiO2            | 0.96   |           | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Depth of Water Body                  | 1.1    |           | Meters       |       |       | 4/18/2018     | 10:40 AM      | FS2100          |
| Nitrogen, Kjeldahl, Total            | 0.72   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | EPA 351.2       |
| Nitrogen, Total                      | 0.72   |           | mg/L as N    | 0.05  | 0.2   | 4/24/2018     | 9:08 AM       | TKN + NOX       |
| Total Organic Carbon                 | 13     |           | mg/L         | 1     | 4     | 5/3/2018      | 3:03 PM       | SM21 5310 B     |
| Phosphorus, Total                    | 0.12   |           | mg/L as P    | 0.006 | 0.024 | 4/24/2018     | 9:10 AM       | EPA 365.1       |
| Total Suspended Solids               | 28.2   |           | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)            | 2.16   |           | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

|                    |              |                          |                    |
|--------------------|--------------|--------------------------|--------------------|
| Laboratory ID      | AD72674      | Collection date and time | 4/18/2018 12:40 PM |
| Location Code      | CRNEP_EQ     | Sample Collector         | REISTAD/DUGAN      |
| Sample Description | EB Site #463 |                          |                    |

| Analyte Name                             | Result | Qualifier | Units     | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|------------------------------------------|--------|-----------|-----------|-------|-------|---------------|---------------|-----------------|
| Chlorophyll a - corrected for Pheophytin | 0.50   | U         | mg/M3     | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Pheophytin                               | 0.50   | U         | mg/M3     | 0.5   | 2.0   | 4/23/2018     | 3:08 PM       | SM21 10200 H    |
| Biochemical Oxygen Demand 5 day          | 0.3    | U         | mg/L      | 0.3   | 1.2   | 4/19/2018     | 10:40 AM      | SM20 5210 B     |
| Color                                    | 1.6    | U         | CU        | 1.6   | 6.4   | 4/19/2018     | 8:25 AM       | SM21 2120 C     |
| Oxygen, Dissolved, Electrode, by Client  | 8.39   |           | mg/L      | 0.1   |       | 4/18/2018     | 12:40 PM      | FDEP FT1500     |
| Enterococci                              | 2      | U         | MPN/100mL | 2     |       | 4/18/2018     | 2:58 PM       | Enterolert®     |
| E.coli Enumeration                       | 2      | U         | MPN/100mL | 2     |       | 4/18/2018     | 2:58 PM       | Colilert-18®    |
| Ammonia                                  | 0.014  | U         | mg/L as N | 0.014 | 0.056 | 4/19/2018     | 10:48 AM      | EPA 350.1       |
| Nitrite                                  | 0.003  | I         | mg/L as N | 0.003 | 0.012 | 4/20/2018     | 8:22 AM       | EPA 353.2       |
| Nitrate                                  | 0.010  | U         | mg/L as N | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrate + Nitrite                        | 0.010  | U         | mg/L as N | 0.01  | 0.04  | 4/19/2018     | 7:56 AM       | EPA 353.2       |
| Nitrogen, Organic                        | 0.050  | U         | mg/L as N | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN - NH3       |

Laboratory ID AD72674  
Location Code CRNEP\_EQ  
Sample Description EB Site #463

Collection date and time 4/18/2018 12:40 PM  
Sample Collector REISTAD/DUGAN

| Analyte Name                | Result | Qualifier | Units        | MDL   | PQL   | Analysis Date | Analysis Time | Analysis Method |
|-----------------------------|--------|-----------|--------------|-------|-------|---------------|---------------|-----------------|
| Phosphorus, Ortho           | 0.004  | U         | mg/L as P    | 0.004 | 0.016 | 4/19/2018     | 2:04 PM       | EPA 365.1       |
| Salinity by meter by Client | 0.1    | U         | SU           | 0.1   |       | 4/18/2018     | 12:40 PM      | FDEP FT 1300    |
| Silica, dissolved as SiO2   | 0.1    | U         | mg/L as SiO2 | 0.1   | 0.4   | 4/19/2018     | 2:35 PM       | SM4500 C        |
| Nitrogen, Kjeldahl, Total   | 0.05   | U         | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | EPA 351.2       |
| Nitrogen, Total             | 0.050  | U         | mg/L as N    | 0.05  | 0.2   | 4/20/2018     | 10:05 AM      | TKN + NOX       |
| Total Organic Carbon        | 1.000  | U         | mg/L         | 1     | 4     | 4/25/2018     | 1:01 PM       | SM21 5310 B     |
| Phosphorus, Total           | 0.006  | U         | mg/L as P    | 0.006 | 0.024 | 4/20/2018     | 10:07 AM      | EPA 365.1       |
| Total Suspended Solids      | 0.6    | U         | mg/L         | 0.6   | 2.4   | 4/19/2018     | 9:44 AM       | SM21 2540 D     |
| Turbidity (Nephelometric)   | 0.20   | U         | NTU          | 0.2   | 0.8   | 4/19/2018     | 7:28 AM       | EPA 180.1       |

Qualifiers:

- I The value is less than, or equal to, the laboratory's practical quantitation limit (PQL) and greater than the minimum detection limit (MDL).  
S Secchi disk visible to bottom of waterbody. Value reported is the depth of the waterbody at the location of Secchi disk measurement.  
U Indicates that the compound was analyzed for but not detected.  
V1 I Analyte found in both sample & field blank @ <5X the blank value. The value is > the MDL and < or = to the PQL.

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.  
The results provided herein relate only to the samples cited as they were received by the laboratory. All questions regarding this report should be directed to Rick Armstrong, Laboratory Manager.



**Rick Armstrong**  
Lab Manager  
Lee County Environmental Lab

# LCEL

Lee County Environmental Laboratory  
60-2 Danley Dr Ft Myers, FL 33907  
Phone: (239) 533-8600

## Analysis Request & Chain of Custody Record

Lab Certification: E45049  
LCEL\_F\_COC\_20150828R1

LCEL does not accept any samples used for evidentiary purposes

Page 1 of 1

| Report/Result Information                                                                                                    |  |                                                |             | Billing/Invoice Information                          |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
|------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|-------------|------------------------------------------------------|----------------------------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|--|----|--|----|--|
| <b>Name:</b> FDEP - South                                                                                                    |  |                                                |             | <b>Name:</b> DNRM                                    |                                  |   |   | <b>Matrix Codes:</b><br>DW-Drinking water<br>GW- Ground water<br>WW-Waste water<br>SW-Surface water<br>WWS-Wastewater Sludge<br>S-Sediment<br>O-Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     |         | <b>Preservative Codes:</b><br>NP-No Preservative<br>N-Nitric Acid<br>S-Sulfuric Acid<br>H-Hydrochloric Acid<br>SH-Sodium Hydroxide<br>ST-Sodium Thiosulfate<br>O-Other |          |   |  |    |  |    |  |
| <b>ATTN:</b> Kirby Wolfe                                                                                                     |  |                                                |             | <b>RE:</b> CCHMN-Tidal Caloosa                       |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Address:</b> 2295 Victoria Ave, Suite 364<br>PO Box 2549<br>Ft Myers FL 33901                                             |  |                                                |             | <b>Address:</b> 1500 Monroe St<br>Ft Myers, FL 33901 |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Phone:</b> (239) 344-5719                                                                                                 |  |                                                |             | <b>Phone:</b> (239) 533-8109                         |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Sample Collector(s) (please print):</b><br>MaryAnn Dugan / Nicole Reistad                                                 |  |                                                |             | <b>Sample Collector Signature:</b>                   |                                  |   |   | <b>Analyses Required</b><br><div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">\$Chloroa, _prep</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">O-PO4, Color, NOX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NH3, TKN, TN,<br/>T-PO4, NO3, ONIT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Turb, NO2, TSS, Silica,<br/>Bod, Bod</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mug2QT, Enter</div> </div> |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Relinquished By: (signature)</b>                                                                                          |  | <b>Date</b>                                    | <b>Time</b> | <b>Received By: (signature)</b>                      |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Relinquished By: (signature)</b>                                                                                          |  | <b>Date</b>                                    | <b>Time</b> | <b>Received By: (signature)</b>                      |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Relinquished By: (signature)</b>                                                                                          |  | <b>Date</b>                                    | <b>Time</b> | <b>Received By: (signature)</b>                      |                                  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        |          |   |  |    |  |    |  |
| <b>Sample(s) on ice</b> <input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No? <b>Temperature °C:</b> 2.90C |  |                                                |             |                                                      |                                  |   |   | NP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   | NPF |         | S                                                                                                                                                                      |          | S |  | NP |  | ST |  |
| Collection<br>Date      Time                                                                                                 |  | Sample Description & Location                  |             | Matrix<br>(see codes)                                | # of Sample Containers Submitted |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |         |                                                                                                                                                                        | Lab ID # |   |  |    |  |    |  |
| 04/18/2018 0940                                                                                                              |  | CRNEP_RS #387                                  |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72666 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1000                                                                                                              |  | CRNEP_RSBOT #387 Bottom                        |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72667 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1135                                                                                                              |  | CRNEP_RS #455                                  |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72668 |                                                                                                                                                                        |          |   |  |    |  |    |  |
|                                                                                                                              |  | CRNEP_RSBOT #455 Bottom <del>NOT TAKEN</del>   |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72669 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1225                                                                                                              |  | CRNEP_RS #463                                  |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72670 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1205                                                                                                              |  | CRNEP_RS #462                                  |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72671 |                                                                                                                                                                        |          |   |  |    |  |    |  |
|                                                                                                                              |  | CRNEP_RSBOT #462 Bottom <del>NOT SAMPLED</del> |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72672 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1040                                                                                                              |  | CRNEP_RS #423                                  |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72673 |                                                                                                                                                                        |          |   |  |    |  |    |  |
| 04/18/2018 1240                                                                                                              |  | CRNEP_EQ #                                     |             | SWE                                                  | 1                                | 1 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 1   | AD72674 |                                                                                                                                                                        |          |   |  |    |  |    |  |

**SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)  
OR THEY MAYBE QUALIFIED\***

\*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.