

Faun Lake/Skip Stasko Park Fish Kill

Initial Call:

On January 19, 2014 Commissioner Christine Robinson received an email from Lt. John Kost informing her of a large fish kill at Faun Lake in Skip Stasko Park. Lt. Kost, Patrol Operations, is a resident in the area since 1985 and reported seeing large numbers of dead fish (largemouth bass, crappie, bluegill, and tilapia) and large numbers of birds eating the dead fish. He also reported that a resident mentioned that a County worker had sprayed the vegetation around the lake on January 15, 2014. On January 20, 2014 Commissioner Robinson replied and copied the Assistant County Administrators (ACAs) and several Directors. On January 21, 2014 Air and Water Quality (AWQ) received an email from Amy Meese, Natural Resources Director, inquiring if anyone responded to the fish kill at Skip Stasko Park. As a result of the offices being closed for the holiday on Monday January 20, 2014, numerous emails were sent to several departments requesting assistance. On January 21, 2014 staff from Public Utilities and Air and Water Quality conducted site visits. The summary below details the coordination and response from the local residents, Florida Fish and Wildlife Conservation Commission, Department of Environmental Protection, Department of Agriculture and Consumer Services, County Parks, Public Utilities, Water Resources, Communications, and Air and Water Quality.

Skip Stasko Park is a County owned facility located at 2101 Scenic Drive, Venice, Florida 34293, PID 0433140120 and is considered a neighborhood park. This park serves as a trailhead for the Venetian Waterway Park which connects to the Legacy Trail. Faun Lake is located within the park and is surrounded by residential units.



Executive Summary:

- Residents residing around Faun Lake in Skip Stasko Park notified Sarasota County regarding a large fish kill;
- Several agencies were contacted and conducted site visits. Photographs and field water quality meter readings were taken;
- The Media contacted the County regarding the fish kill;
- Concerned local residents contacted the County regarding two dead brown pelicans;
- The residents expressed an interest in the Neighborhood Environmental Stewardship Team program (NEST);
- Two sets of water quality samples were taken for total suspended solids, specific conductance, pH, nutrients, Fecal coliform, glyphosate, and six chlorinated herbicides and sent to certified laboratories;
- The water quality sample results noted that the laboratory did not detect the presence of glyphosate or any of the six chlorinated herbicides. The nutrient values were slightly elevated. The DEP Algal Taxonomy Reported noted that the sample contained a mixture of green and blue-green algae; and
- Parks and Recreation staff has consulted with the Fish and Wildlife Conservation Commission regarding re-stocking of the pond. It will be a few months off since they are locating approved fish nurseries and may have to wait until the fish "grow" or reach an appropriate size for release.

Chronology:

- January 21, 2014 0750 Carolyn Brown, Parks and Recreation Director, emailed her staff requesting the name of the person that may have sprayed along Faun Lake.
- January 21, 2014 0808 The Call Center notified Joseph Kraus, Environmental Specialist III, AWQ, about a fish kill in Faun Lake.
- January 21, 2014 0826 Mark Cunningham, ACA, emailed John Ryan, Water Resources Manager, requesting that Lt. Kost be contacted.
- January 21, 2014 0834 George Tatge, Parks and Recreation, responded that the fish kill may have been weather related as a result of several overcast days.
- January 21, 2014 0921 Jason Brown, Public Utilities, conducted a site visit of the lake and reported that the issue appeared to be an algae bloom. He also advised that the lake is maintained via county contract and that he spoke to the contractor. According to the contractor, the south bank was last treated on January 5, 2014 and the water was not treated. Photographs were taken.
- January 21, 2014 0928 Dave Cash, Interim Public Utilities Director, forwarded the site findings from Jason Brown along with the photographs.
- January 21, 2014 1003 Curt Preisser, Public Relations, Sarasota County Communications, spoke with a reporter from CBS Channel 10 News explaining that the fish likely died from cold temperatures and the County does not spray chemicals that would kill fish. The reporter requested someone on staff to appear on camera. It was decided that Dave Cash, Interim Public Utilities Director, would be available.
- January 21, 2014 1030 Bruce Maloney, Environmental Specialist I, AWQ, conducted a site visit and observed that the lake had an algae bloom with hundreds of dead fish and highly elevated dissolved oxygen levels. Refer to Table 1 for field water quality meter readings.

- January 21, 2014 1107 Laura Ammeson, Environmental Supervisor, AWQ, received notification that a citizen reported a fish kill at Faun Lake in Skip Stasko Park to the State Watch Office (Incident No. 2014-479) on January 19, 2014. The report was called in by Monique Pouget at 941-408-1271 who reported that a large number of fish were dead and insecticides may have killed them. The Florida Department of Environmental Protection (DEP) and Florida Fish and Wildlife Conservation Commission (FWC) were also notified.
- January 21, 2014 1130 Bruce Maloney, AWQ, spoke with Robert Pouget a resident at 470 Ginger Road and explained his findings and discussed algae blooms and fish kills.
- January 21, 2014 1130 John Browne, President of the South Venice Civic Association, emailed photographs to John Ryan.
- January 21, 1245 Laura Ammeson, Environmental Supervisor, AWQ, sent an email to Karen Bayly, DEP notifying them that AWQ was responding to the fish kill.
- January 21, 2014 1332 Bruce Maloney, AWQ, provided the summary below of his site findings.

I conducted a site visit of Skip Stasko Park this morning. The lake is just under 3 acres and over 25' deep. There is a very small shallow area along the shoreline, approximately 2'-3' wide, then it drops straight down. The water is a very cloudy green from an algae bloom. A small area of the north shoreline was sprayed by the County's contractor on January 5th. Jason Brown reported that there was no spraying in the water, only on shore vegetation. The dead fish appeared to have been eaten by the hundreds of birds present as soon as they blew ashore.

Field readings were conducted. The water temperature was 19.2 degrees C, oxygen saturation was 126.5%, dissolved oxygen was 11.6 mg/L, conductance was 1361, salinity was 0.7 ppt, and the pH was 7 STD. All readings are normal for this type of lake except for oxygen saturation and dissolved oxygen. Normal oxygen at 19 degrees C would be expected to be between 3 – 5 mg/L. 100% saturation would be 9 mg/L. The very high oxygen level is common for water bodies with algae blooms. Early morning and cloudy day oxygen levels in a heavy algae bloom can be close to 1 mg/L or lower. As the sun comes out and photosynthesis occurs oxygen can reach 12 mg/L and above. Most types of fish cannot take the stress of very low oxygen to very high oxygen in a short time. These types of algae blooms are very common in this area and can be caused by a variety of causes. Pictures are attached.

Reports of the fish kill were reported by citizens to the Florida Fish and Wildlife Conservation Commission, DEP South District, and State Watch Office.

Channel 10 film crew were at the other end of the lake and were not encountered.

- January 21, 2014 1400 Bruce Maloney, AWQ, contacted Lt. Kost and explained his findings. Lt. Kost thanked AWQ for their quick response.
- January 21, 2014 1608 Curt Preisser, Public Relations, Sarasota County Communications, issued the following Media Contact:

Subject: Media Contact - CBS Ch. 10, Venice Gondolier, Herald Tribune - Fish Kill

Reporter/Media: Isabel Mascaranas - CBS Ch. 10, Shelby Webb – Herald Tribune, Bob Mudge – Venice Gondolier

Query: Reporters wanted to know if county spraying herbicide was the cause of a fish kill in a stormwater pond near Skip Stasko Park in Venice.

Response: After discussing with county staff I provided the following information to media:

- The county contractor sprayed a contact herbicide on the bank only of one side of the stormwater pond on Jan.5.
- The herbicide is designed to dissipate within moments of being sprayed onto weeds and is not suspected of causing the fish kill.
- County staff took water samples from the pond this morning and discovered very high oxygen saturation levels, 11.6 mg per liter. Normal levels at today's temperature should be 3-5mg per liter.

- The high oxygen level is a common indication of an algae bloom.
- As cloud cover dissipated and sunshine hit the water, photosynthesis occurred causing the oxygen levels to rise dramatically in a very short period of time.
- This sudden rise in oxygen levels, combined with the algae bloom, is suspected of causing the fish kill.
- The fish kill was reported to FWC and DEP.
- The county does not clean up a fish kill unless the Dept. of Health declares a sanitary hazard which did not occur in this situation. The majority of the time mother nature takes care of the clean up (birds and other animals eat the fish).

Coordination/Source of Response: Dave Cash, Dir. Utilities, Bruce Maloney, Environmental Specialist, Air and Water Quality

Note: The stories ran on CBS Channel 10 and in the Venice Gondolier and Herald Tribune newspapers.

- January 21, 2104 1806 Carolyn Brown, Parks and Recreation Director, emailed her staff requesting additional details to update the Commissioners.
- January 21, 2014 2006 Commissioner Robinson emailed John Browne, President of the South Venice Civic Association, notifying him that John Ryan, Water Resources Manager, will be contacting him.
- January 22, 2014 0819 Laura Ammeson, Environmental Supervisor, AWQ, emailed site findings to Lt. Kost.
- January 22, 2014 0952 Dave Cash, Interim Public Utilities Director, provided an update to management.
- January 22, 2014 1207 John Ryan, Water Resources Manager, responded to all Commissioners and John Browne, President of the South Venice Civic Association, explaining the staff findings, algae blooms, and causes of fish kills. A copy of a FWC brochure regarding fish kills was also provided. Mr. Ryan provided the following status update.

Hello Commissioner Robinson (and others):

Recently there was a fish kill at Skip Stasko Park in Venice. Concerned people contacted Sarasota County. The Air and Water Quality Division of the Natural Resources Department responded and determined that the algae-rich lake had extreme oxygen levels consistent with other fish kills commonly observed in this area. Fish need oxygen dissolved in water to breathe through their gills so when the levels are too low, usually at night, the fish suffocate. Fish kills, especially in ponds, are common and over 500 are listed in the Florida Fish and Wildlife fish kill database for Sarasota County.

Some callers were concerned about herbicide applications near the pond and Sarasota County Stormwater Operations also investigated (in cooperation with Natural Resources). Herbicides had been applied on land but were not deemed to be contributing to the fish kill.

John Bowne, President of the South Venice Civic Association was one of the concerned persons. He was called today and the situation was discussed. He was well aware that low-dissolved oxygen (DO) fish kills routinely occur. He asked that information be sent to him to explain fish kills so he could post it on Facebook and publish it in the SVCA newsletter. The attached information is from the County's website. A brochure from the Florida Fish and Wildlife Conservation Commission is also attached.

Sarasota County uses a Call Center at 941-861-5000 to direct citizen concerns to the appropriate staff that are tasked with promptly investigating and getting back in touch with the callers. Sarasota County is committed to customer service regardless of how the message is received but callers may find that the Call Center is the best way to get a fast and complete response.

To minimize the occurrence of fish kills, Florida experts encourage natural shorelines and submerged vegetation to support the life cycles of fish and other aquatic species. South Venice Civic Association is leading a groundbreaking project to naturalize canals in their neighborhood and is also supporting the Venice Gardens Lake Group who are in the planning stages of community-led lake management effort. These activities are perfectly consistent with the advice of experts, such as Florida Lakewatch and the Florida Lake Management Society.

If you have any questions, please contact me at your convenience. For more details about this or other call center-initiated water quality investigations, Laura Ammeson, the Supervisor of the Air and Water Quality Division, is your best contact at 861-0928.

- January 22, 2014 1315 Lt. John Kost emailed county staff thanking them for their response.
- January 23, 2014 AM Monique Pouget resident at 470 Ginger Road phoned Bruce Maloney, AWQ for additional information.
- January 23, 2014 1400 Eileen Poling resident at 355 Faun Road phoned Bruce Maloney, AWQ. The findings were provided; however, she was not satisfied with the explanation.
- January 24, 2014 1535 Chris Rozansky, C.M., Venice Airport Administrator, spoke to Bruce Maloney, AWQ, regarding the large number of birds in the area and expressed a concern for the safety of the pilots using the airport.
- January 24, 2014 1323 Catalina Brown with the Florida Fish and Wildlife Conservation Commission (FWC) received a call from Michelle Drum, a resident in the area. Ms. Drum alleged that the County placed chemicals in the pond and caused the fish kill and there were now two dead pelicans around the lake. Ms. Drum requested that the water be tested. Ms. Brown explained to her that the fish kill was most likely the result of an algae bloom. Ms. Brown also informed Dan Wolf, the FWC avian coordinator, of the two dead pelicans. Ms. Drum also contacted Bruce Maloney and Laura Ammeson, AWQ, regarding her dissatisfaction of the County's response.
- January 24, 2014 1330 Bruce Maloney, AWQ, received a subsequent phone call from Eileen Poling. She was still unhappy with the inspection findings.
- January 24, 2014 1605 Kathy Meaux, Environmental Specialist III, Water Resources, collected one dead brown pelican from the site and prepared it for overnight storage on ice for pick up by Dan Wolf with FWC. There was a report of another dead pelican but it could not be found. Residents claimed it was taken to the FWC but FWC had no record of it. Jason Brown with Public Utilities was also onsite. Refer to Table 1 for field water quality meter readings.
- January 24, 2014 1614 Catalina Brown, FWC, emailed photographs of a dead pelican taken by Cindi Nemitz, a local resident.
- January 24, 2014 1615 Catalina Brown, FWC, and Kevin Baxter, FWC Media Coordinator, attempted to locate the whereabouts of a dead pelican that a local resident dropped off at a local facility. After numerous phone calls, they were unable to locate the facility that is holding the other dead pelican.
- January 24, 2014 Dave Cash, Interim Public Utilities Director, met with staff and directed staff to collect water samples on January 27, 2014.
- January 24, 2014 1626 Cesar Rodriguez, Quality Assurance Officer, provided the specification sheet on glyphosate. The brand name is Roundup and is considered a non-selective herbicide that is active on grasses and broadleaf plants. This product is labeled for use up to the water's edge.

- January 24, 2014 1603 Laura Ammeson, Environmental Supervisor, AWQ, sent an email to management as notification that a dead brown pelican was collected and arrangements were made with FWC to pick up the bird.
- January 25, 2014 0913 Curt Preisser, Public Relations, Communications, received a call from Tony Gerace, a resident that lives on the pond. Mr. Gerace was concerned about dead pelicans and hundreds of birds.
- January 25, 2014 0925 John Ryan, Water Resources Manager, conducted a visit to the site and observed lots of fish bones on the shore, 20 dead tilapia, 200 live vultures, and 25 live brown pelicans. The water level was low.
- January 27, 2014 0858 Jason Brown, Public Utilities, responded with the lake contractor's information and report.

Contractor information:

Company: Rockhopper Services Inc. License #:CM1726
President: Lewis Collins
Address: 8940 Bunker Hill Road
Duette, Florida. 33834
Contract #121834HR Pond and Lake Maintenance Services
Contract started: 04/24/2012 expires: 04/23/2015
Contract Annual cost: \$126,672.00

Faun Lake:

Lake was inspected by contractor on January 2, 2014

- Outfall was inspected
- Trash was non-existent
- Vegetation on north bank was treated with 20 ounces of Glyphosate

- January 27, 2014 0901 Laura Ammeson, Environmental Supervisor, AWQ, received a call from Shelly, a resident that lives in the area. She would like to have the pond re-stocked.
- January 27, 2014 0916 Kathy Meaux, Environmental Specialist III, Water Resources, provided a summary of her January 24, 2014 site findings with Jason Brown.

I just wanted to reiterate what we found during the fish kill investigation Friday afternoon.

I met with Jason Brown onsite Friday afternoon. He had just spoken with resident Bob Nemitz who had collected the dead pelican and placed it in a plastic bag for pick-up. Mr. Nemitz had also reported a sick and dying pelican. Jason walked around the entire perimeter of the lake with Mr. Nemitz, but could not find any pelicans or other wading birds under obvious distress.

During our inspection, Jason and I counted 40 pelicans, 17 white ibis, 2 little blue herons, 2 cormorants, 7 mallard ducks, 1 great blue heron, and between 250-300 turkey and black vultures. All appeared to be healthy.

There was dead vegetation up on the bank along the north shore. This is apparently where the contractor sprayed. We didn't see any dead vegetation in the water.

The only dead fish we saw at that time were Tilapia and the vultures were having tugs-of-war over them. There were carcasses along the banks that had been stripped clean. Several residents said that they were going to clean up the bones on Saturday.

The lake is experiencing a significant algae bloom. That is most likely the cause of the fish kill. I collected meter data on the north and south sides of the lake. That was around 3:30 in the afternoon. The dissolved oxygen content was 11.57 mg/L (saturated) which is indicative of an algae bloom. During the night time when photosynthesis stops, the DO drops and can go down as far as zero. Also, in addition to Tilapia, other species of fish died. Residents reported seeing dead bass and other freshwater species. All were large. The larger fish are more easily stressed by lower oxygen levels. The fact that no small fish or minnows were impacted strongly suggests low DO as the cause of the kill.

I do not think that it was strictly a cold weather kill. The water temperature was around 65° F. It could have been a factor with the Tilapia, as they are more sensitive to changes in water temperature than our native species. The water temperature was in the 50° range when we had the serious cold kill several years ago. Laura did find that there have been several cold kills around the state during this time period.

I collected the dead pelican from Jason. The Health Dept. allowed me to store it in their freezer. We will be in contact with FWC today for someone to come pick it up. Catalina Brown with FWC advised that Avian botulism could be the cause of the death because the bacteria quickly grow on the decomposing fish. Hopefully, a necropsy will reveal the cause of death.

I spoke with resident, Cindi Nemitz, who was very concerned about the County spraying the lake. She said all of the residents want to have a fringe of higher vegetation around the lake to act as a buffer and to provide wildlife habitat. She even said that she has planted native vegetation near the water's edge only to have it mowed down by the contractor. Jason suggested their putting no mow/no herbicide signs around the lake in both English and Spanish. We discussed the possibility of being able to discontinue any spraying and mowing to leave a buffer. Since the lake is part of a County Park, that would be up to Parks and Rec. I advised Ms. Nemitz that we have a NEST program and it may be a good idea for Rob Wright to meet with her and the other residents to see if they could work with Parks and Rec. to come up with a workable plan. She was very open to that idea and would like for Rob to contact her. I should have pictures, but my camera was not working properly and I attempted to take photos with my telephone. They didn't turn out due to operator error.

- January 27, 2014 1015 Bruce Maloney, AWQ, conducted a site visit and recorded field water quality measurements and collected water samples of the lake for total suspended solids, specific conductance, pH, nutrients, Fecal coliform, glyphosate, and six chlorinated herbicides. Samples were obtained from the north and south shorelines of the lake. The dissolved oxygen readings were highly elevated. Refer to Table 1 for field water quality meter readings. Also onsite were Mike Burns, Environmental Specialist II, Florida Department of Agriculture and Consumer Services, Hector Mendez, Sarasota County Department of Health, and Albert Walton, Jr., Environmental Specialist II, DEP South District. Mike Burns was collecting statements from several residents as a result of their concern of chemical spraying. Albert Walton, Jr., was collecting algae samples.
- January 27, 2014 1024 Robert Wright, Water Resources, provided an update to management that he had spoken with a few residents and they are interested in the Neighborhood Environmental Stewardship Team program.
- January 27, 2014 1034 Kathy Meaux, Environmental Specialist III, Water Resources emailed FWC requesting a pick up time for the dead brown pelican.
- January 27, 2014 1225 Curt Presser, Public Relations, Communications, was developing talking points.
- January 27, 2014 1506 FWC staff picked up the dead pelican and was transporting it back to their office.
- January 28, 2014 1247 Mike Burns, Environmental Specialist II, Florida Department of Agriculture and Consumer Services, emailed requesting the applicator's information.
- January 28, 2014 1306 Catalina Brown with FWC responded that their staff was in receipt of the dead pelican. Ms. Brown advised that FWC requires five bird mortalities in order to perform a necropsy. However, FWH staff will keep the bird onsite in case any additional mortality is

reported. If warranted, the FWC Avian Health staff will conduct a necropsy and obtain additional samples. In addition, DEP staff confirmed that they also received calls from residents regarding the retention pond near Ginger Road and have sampled the pond. Samples were sent to their laboratory for algal identification and if necessary, microcystin testing.

- January 28, 2014 Kathy Meaux, Environmental Specialist III, Water Resources, sent an email to management notifying them that the FWC will not conduct a necropsy on just one bird.
- February 5, 2014 Laboratory results from Pace Analytical Services, Inc. were received which noted that the laboratory did not detect the presence of glyphosate or any of the six chlorinated herbicides. Refer to attachment.
- February 6, 2014 Laboratory results from Benchmark EnviroAnalytical, Inc. were received which indicated slightly elevated nutrient values. Refer to attachment.
- February 12, 2014 Albert Walton, Environmental Specialist II, DEP South District emailed the Algal Taxonomy Summary Report which indicated a mixture of green and blue-green algae was present. Refer to attachment.
- February 14, 2014 Lt. Kost emailed requesting if Faun Lake can be re-stocked with fish.
- February 18, 2014 Laura Ammeson, Environmental Supervisor, AWQ, sent an email to Parks and Recreation and Stormwater staff to request information on re-stocking as per Lt. Kost's request.
- February 19, 2014 1315 Mike Burns, DACS, phoned Laura Ammeson to receive a status report. Mr. Burns indicated that he had spoken to several residents that remain upset that the dead fish were not removed. He also conducted a site visit of Rockhopper Services, the County's contractor. According to Mr. Burns, all items were in order.
- February 20, 2014 Robin Allen, Outreach Coordination Office and Internship Coordinator, FWC, emailed general information on re-stocking ponds with appropriate fish.
- March 4, 2014 1330 Bruce Maloney, Environmental Specialist I, AWQ, conducted a site visit and observed that the lake had filamentous algae present. Refer to Table 1 for field water quality meter readings.
- March 6, 2014 1520 George Tatge, Parks and Recreation, responded that they are working with FWC regarding locating approved fish nurseries.
- March 6, 2014 1640 Laura Ammeson, Environmental Supervisor, AWQ, notified Lt. Kost that Parks and Recreation staff are working with FWC regarding locating appropriate fish to re-stock the pond.
- March 6, 2014 1846 Lt. Kost replied that the local residents will be pleased to hear about the re-stocking plan.

Attachments:

Map of Skip Stasko Park

Map of Skip Stasko Park Drainage area

Photographs of January 21, 2014 site visit

Photographs of January 27, 2014 site visit

Photographs of March 4, 2014 site visit

Laboratory Results from Pace Analytical Services, Inc.

Laboratory Results from Benchmark EnviroAnalytical, Inc.

Florida Department of Environmental Protection Algal Taxonomy Report

Table 1. Field Water Quality Meter Readings

Date		01/21/14	01/24/14	01/24/14	01/27/14	01/27/14	03/04/14	03/04/14
Time		1100	1530	1545	1035	1045	1330	1335
Location		North Shore	North Shore	South Shore	North Shore	South Shore	North Shore	South Shore
Water Temperature	Degrees C	19.20	17.44	17.11	18.60	17.80	25.80	24.30
Dissolved Oxygen	mg/l	11.60	11.57	11.57	9.27	9.23	9.29	9.14
Oxygen Saturation	Percent	126.5	121.1	120.5	106.0	97.9	107.0	110.4
Specific Conductance	umhos/cm	1361	1337	1339	1359	1390	1397	1408
Salinity	ppt	0.70	0.67	0.67	0.70	0.70	0.70	0.70
pH	STD	7.00	8.01	8.42	7.00	7.00	7.00	7.00



Bill Furst
 Sarasota County Property Appraiser



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 Sarasota County Property Appraiser Office.
 No warranties are expressed or implied.



Parcels **P**
 Lots **S**

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RUTLAND RD

OAK RD

FAUN RD

MAPLE RD

HAWTHORNE RD

REDFERN RD

SCENIC DR

Skip Stasko Park
Faun Lake

GINGER RD

SHAMROCK DR

AVALON RD

SCENIC DR

WISTERIA RD

BARD RD

WISTERIA RD

Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Faun Lake, Skip Stasko Park

Address: 2101 Scenic Dr.

Inspection Date: 1/21/14

Inspection Time: 0921

Inspection Type: Fish kill

Digital Recording Media:

Were the photos altered? No

Photographer: Jason Brown



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Lake Skip Stasko Park

Address: 2101 Scenic Dr.

Inspection Date: 1/21/14

Inspection Time: 1100

Inspection Type: Fish kill

Type of Camera Used: Sony Cyber-shot

Digital Recording Media:

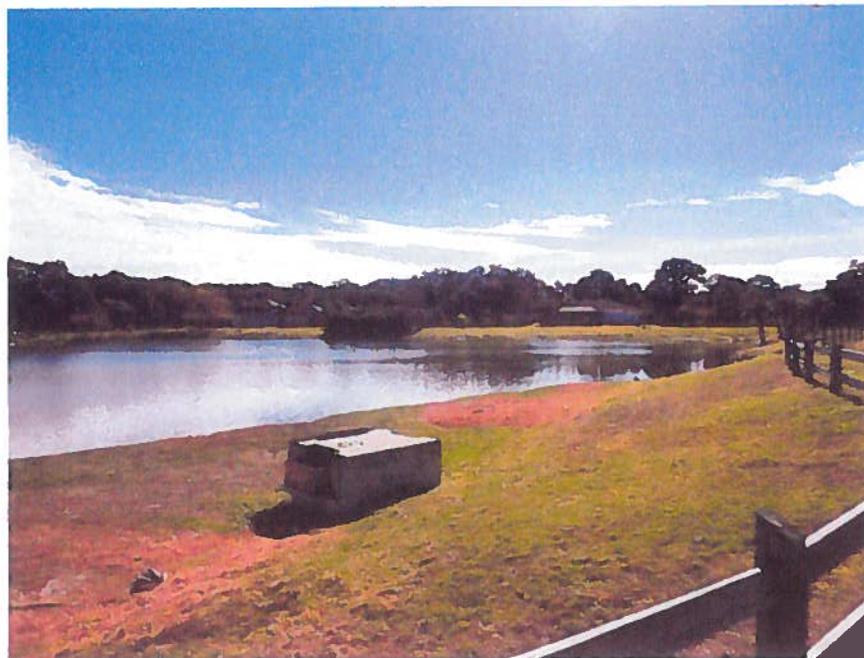
Were the photos altered? No

North shoreline of lake, numerous birds eating dead fish.

South shoreline of lake.

Photographer: Bruce Maloney

Signature of Photographer: 



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Lake Skip Stasko Park

Address: 2101 Scenic Dr.

Inspection Date: 1/21/14

Inspection Time: 1100

Inspection Type: Fish kill

Type of Camera Used: Sony Cyber-shot

Digital Recording Media:

Were the photos altered? No

Heavy algae bloom, north shoreline of lake.

Heavy algae bloom, south shoreline of lake.

Photographer: Bruce Maloney

Signature of Photographer: *Bruce Maloney*



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Skip Stasko Park

Address: 2010 Scenic Dr.

Inspection Date: 1/27/14

Inspection Time: 1045

Inspection Type: Fish kill

Type of Camera Used: Sony Cyber-shot

Digital Recording Media:

Were the photos altered? No

North shoreline of Fawn Lake.

Photographer: Bruce Maloney

Signature of Photographer:



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Skip Stasko Park

Address: 2010 Senic Dr.

Inspection Date: 1/27/14

Inspection Time: 1045

Inspection Type: Fish kill

Type of Camera Used: Sony Cyber-shot

Digital Recording Media:

Were the photos altered? No

South shoreline of Fawn Lake.

Photographer: Bruce Maloney

Signature of Photographer: 



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Skip Stasko Park, Faun Lake

Address: 2101 Scenic Dr.

Inspection Date: 3/4/14

Inspection Time: 1330

Inspection Type: Water quality

Type of Camera Used: Nikon Coolpix S6500

Digital Recording Media:

Were the photos altered? No

Water is much clearer but still very green from algae. Larger amounts of filamentous algae are evident than in the past.

North shoreline of lake.

South shoreline of lake.

Photographer: Bruce Maloney

Signature of Photographer: 



Incident #: 14-114838-11

Grid #: G506

Facility/Location Name: Skip Stasko Park, Faun Lake

Address: 2101 Scenic Dr.

Inspection Date: 3/4/14

Inspection Time: 1330

Inspection Type: Water quality

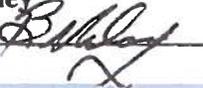
Type of Camera Used: Nikon Coolpix S6500

Digital Recording Media:

Were the photos altered? No

Water is much clearer but still very green from algae. Larger amounts of filamentous algae are evident than in the past.

Photographer: Bruce Maloney

Signature of Photographer: 





Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

February 05, 2014

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Resource Management
Venice, FL 34293

RE: Project: Skip Stasko Park
Pace Project No.: 35124161

Dear Mr. Rodriguez:

Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joe Vondrick
joe.vondrick@pacelabs.com
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County
Finance Dept., Sarasota County
Mr. Cesar Rodriguez, Sarasota County



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Skip Stasko Park
Pace Project No.: 35124161

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Skip Stasko Park

Pace Project No.: 35124161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35124161001	North Shore	Water	01/27/14 10:20	01/29/14 03:30
35124161002	South Shore	Water	01/27/14 10:30	01/29/14 03:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Skip Stasko Park
Pace Project No.: 35124161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35124161001	North Shore	EPA 515.3	LJM	7	PASI-O
		EPA 547	LAJ	1	PASI-O
35124161002	South Shore	EPA 515.3	LJM	7	PASI-O
		EPA 547	LAJ	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Skip Stasko Park
 Pace Project No.: 35124161

Sample: North Shore Lab ID: 35124161001 Collected: 01/27/14 10:20 Received: 01/29/14 03:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3							
2,4-D	0.081U	ug/L	0.10	0.081	1	01/31/14 08:45	02/04/14 03:17	94-75-7	J(M1)
Dalapon	0.89U	ug/L	1.0	0.89	1	01/31/14 08:45	02/04/14 03:17	75-99-0	J(M1)
Dinoseb	0.16U	ug/L	0.20	0.16	1	01/31/14 08:45	02/04/14 03:17	88-85-7	
Pentachlorophenol	0.030U	ug/L	0.040	0.030	1	01/31/14 08:45	02/04/14 03:17	87-86-5	
Picloram	0.094U	ug/L	0.10	0.094	1	01/31/14 08:45	02/04/14 03:17	1918-02-1	J(M1)
2,4,5-TP (Silvex)	0.16U	ug/L	0.20	0.16	1	01/31/14 08:45	02/04/14 03:17	93-72-1	
Surrogates									
2,4-DCAA (S)	120 %		70-130		1	01/31/14 08:45	02/04/14 03:17	19719-28-9	
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	5.4U	ug/L	6.0	5.4	1		02/04/14 17:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Skip Stasko Park
Pace Project No.: 35124161

Sample: South Shore Lab ID: 35124161002 Collected: 01/27/14 10:30 Received: 01/29/14 03:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3							
2,4-D	0.081U	ug/L	0.10	0.081	1	01/31/14 08:45	02/04/14 04:51	94-75-7	
Dalapon	0.89U	ug/L	1.0	0.89	1	01/31/14 08:45	02/04/14 04:51	75-99-0	
Dinoseb	0.16U	ug/L	0.20	0.16	1	01/31/14 08:45	02/04/14 04:51	88-85-7	
Pentachlorophenol	0.030U	ug/L	0.040	0.030	1	01/31/14 08:45	02/04/14 04:51	87-86-5	
Picloram	0.094U	ug/L	0.10	0.094	1	01/31/14 08:45	02/04/14 04:51	1918-02-1	
2,4,5-TP (Silvex)	0.16U	ug/L	0.20	0.16	1	01/31/14 08:45	02/04/14 04:51	93-72-1	
Surrogates									
2,4-DCAA (S)	124 %		70-130		1	01/31/14 08:45	02/04/14 04:51	19719-28-9	
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	5.4U	ug/L	6.0	5.4	1		02/04/14 17:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Skip Stasko Park
Pace Project No.: 35124161

QC Batch: GCSV/10542 Analysis Method: EPA 547
QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
Associated Lab Samples: 35124161001, 35124161002

METHOD BLANK: 822099 Matrix: Water
Associated Lab Samples: 35124161001, 35124161002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	5.4U	6.0	02/04/14 16:03	

LABORATORY CONTROL SAMPLE: 822100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	57.4	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 822101 822102

Parameter	35124161001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	Units	Result								RPD	
Glyphosate	ug/L	5.4U	50	50	57.1	54.3	114	109	80-120	5	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 822103 822104

Parameter	35124366001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	Units	Result								RPD	
Glyphosate	ug/L	<5.4	50	50	54.3	56.4	109	113	80-120	4	30

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Skip Stasko Park
 Pace Project No.: 35124161

QC Batch: OEXT/15936 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 35124161001, 35124161002

METHOD BLANK: 819536 Matrix: Water
 Associated Lab Samples: 35124161001, 35124161002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	0.16U	0.20	02/03/14 18:54	
2,4-D	ug/L	0.081U	0.10	02/03/14 18:54	
Dalapon	ug/L	0.89U	1.0	02/03/14 18:54	
Dinoseb	ug/L	0.16U	0.20	02/03/14 18:54	
Pentachlorophenol	ug/L	0.030U	0.040	02/03/14 18:54	
Picloram	ug/L	0.094U	0.10	02/03/14 18:54	
2,4-DCAA (S)	%	103	70-130	02/03/14 18:54	

LABORATORY CONTROL SAMPLE: 819537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	1.2	119	70-130	
2,4-D	ug/L	5	0.57	115	70-130	
Dalapon	ug/L	5	6.1	122	70-130	
Dinoseb	ug/L	1	1.2	116	70-130	
Pentachlorophenol	ug/L	2	0.24	122	70-130	
Picloram	ug/L	5	0.60	119	70-130	
2,4-DCAA (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 819836 819837

Parameter	Units	35124161001		MS	MSD	MS	MSD	% Rec	Max				
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	1	1.2	1.3	116	130	70-130	12	40	
2,4-D	ug/L	0.081U	.5	.5	.5	0.70	0.48	140	95	70-130	38	40	J(M1)
Dalapon	ug/L	0.89U	5	5	5	6.3	6.8	126	135	70-130	7	40	J(M1)
Dinoseb	ug/L	0.16U	1	1	1	1.0	1.1	102	111	70-130	9	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	.2	0.17	0.19	83	97	70-130	15	40	
Picloram	ug/L	0.094U	.5	.5	.5	0.65	0.76	131	152	70-130	15	40	J(M1)
2,4-DCAA (S)	%							128	130	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 819838 819839

Parameter	Units	35124024001		MS	MSD	MS	MSD	% Rec	Max				
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1	1	1	1.1	1.2	109	118	70-130	7	40	
2,4-D	ug/L	ND	.5	.5	.5	0.54	0.58	108	115	70-130	7	40	
Dalapon	ug/L	ND	5	5	5	5.5	6.0	110	121	70-130	9	40	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Skip Stasko Park

Pace Project No.: 35124161

Parameter	35124024001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Dinoseb	ug/L	ND	1	1	1.0	1.1	104	111	70-130	7	40		
Pentachlorophenol	ug/L	ND	2	2	0.22	0.24	110	118	70-130	7	40		
Picloram	ug/L	ND	5	5	0.61	0.59	121	118	70-130	2	40		
2,4-DCAA (S)	%						94	100	70-130				

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Skip Stasko Park
Pace Project No.: 35124161

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt Form	Document Revised: October 9, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR) Table Number: _____

Client Name: SARLOW Project # 35124161

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date and Initials of person examining contents: 1/29/14

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T165 Type of Ice: Wet Blue None

Cooler Temperature °C 0.8 (Visual) 0.1 (Correction Factor) 0.7 (Actual)
(Temp should be above freezing to 5°C). If below 0°C, then was sample frozen? Yes No

Receipt of samples satisfactory: Yes No Rush TAT requested on COC: _____

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> No Labels: <input type="checkbox"/> No Time/Data on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution (use back for additional comments): _____

 Project Manager Review: _____ Date: 1/29/14

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample In Shed: Yes No	

CHAIN OF CUSTODY RECORD

Pace Analytical
 8 East Tower Circle
 Ormond Beach, FL 32174
 (386) 672-5668 • FAX: (386) 673-4001

FOR LAB USE ONLY **Submission No.** _____

Temp. of Contents: 5.5 °C (or Received on Ice, ROI) Condition of Seals: _____

Address: 1255 T. Mabry Carlton Parkway Phone: (941) 650-9834

City: Venice State: FL Zip Code: 34292 Phone: (941) 650-1112

Address: _____ Phone: () _____ Fax: (941) 480-3558

City: _____ State: _____ Zip Code: _____ Phone: () _____

Client Project Name: Cesar Rodriguez/ Heather Bryen

Client Project No.: 140300

S.P.O. No.: _____

Custody Seal No.: CRP/THB

Sampled By: _____

Shipping Method: courier

Item	9. Sample ID or No.	10. Sample Description	11.		12.	13.	14. # of Bottles				15. Preservatives	16. Containers	17.	20. REMARK	
			Date	Time			Water	Grab	Comp	Code					Air
1		North Shore	1/27/14	1030	X	SW									A,B: 547 Glyphosphate
2		South Shore	1/27/14	1030	X										C: 515.3
3															Chlorinated Herbicides
4															
5															
6															
7															
8															
9															
10															

FOR LAB USE ONLY

18. Report Type: Routine With QC

19. Turnaround Time: Standard Rush: / /

21. RELINQUISHED BY: _____ **DATE:** 1/27/14 **TIME:** 1205

RECEIVED BY: _____ **DATE:** 1/27/14 **TIME:** 1205

22. Profile No.: _____ **Equipment Rental Fee:** _____

Quote No.: _____

Preservative Codes (for Item 15):
 C - Cool Only
 H = Hydrochloric Acid
 M = Monochloroacetic Acid
 A = Ascorbic Acid
 SS = Sodium Sulfite
 S = Sulfuric Acid
 T = Sodium Thiosulfate

LAB ONLY
 LAB SAMPLE NO. _____

LAB ONLY
 Lab No: 635124161

DISTRIBUTION: Original with report; copy as needed T105 D.7 Revised: 7/05

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Skip Stasko Park
Pace Project No.: 35124161

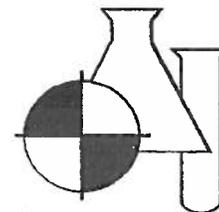
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35124161001	North Shore	EPA 515.3	OEXT/15936	EPA 515.3	GCSV/10533
35124161002	South Shore	EPA 515.3	OEXT/15936	EPA 515.3	GCSV/10533
35124161001	North Shore	EPA 547	GCSV/10542		
35124161002	South Shore	EPA 547	GCSV/10542		

REPORT OF LABORATORY ANALYSIS

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BENCHMARK

EnviroAnalytical Inc.



NELAC Certification # E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 14010986

Sarasota County Utilities Oper
1255 T. Mabry Carlton Pkwy
Venice, FL 34293

Project Name : IWR-SKIP STASKO PARK
Date Received : 01/27/2014
Time Received : 1447

Cesar Rodriguez

Submission Number 14010986

Sample Number: 001 **Sample Description:** North Shore
Sample Date: 01/27/2014 **Sample Method:** Grab
Sample Time: 1020

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
AMMONIA NITROGEN	0.045	MG/L	0.008	0.032	350.1	01/30/2014	13:37	MV
TOTAL KJELDAHL NITROGEN	1.74	MG/L	0.05	0.20	351.2	01/29/2014	09:36	JB
NITRATE NITROGEN	0.004 U	MG/L	0.004	0.016	353.2	01/27/2014	17:35	MV/TN
NITRATE+NITRITE AS N	0.004 U	MG/L	0.004	0.016	353.2	01/28/2014	09:48	TN
TOTAL PHOSPHORUS AS P	0.022 I	MG/L	0.008	0.032	365.3	01/30/2014	13:55	MR
SPECIFIC CONDUCTANCE	1365	UMHOS/CM	1.24	4.96	SM2510B	02/03/2014	11:13	MR
TOTAL SUSPENDED SOLIDS	9.60	MG/L	0.570	2.280	SM2540D	01/29/2014	12:16	JG
PH	8.20 Q	UNITS			SM4500H+B	01/27/2014	15:25	TN
NITRITE NITROGEN	0.009 I	MG/L	0.003	0.012	SM4500NO2B	01/27/2014	17:35	MV
FECAL COLIFORM	680 B	#/100 ML	10	10	SM9222D	01/27/2014	15:39	KD

Submission Number 14010986

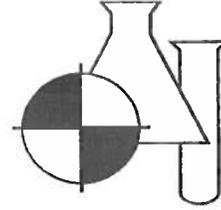
Sample Number: 002 **Sample Description:** South Shore
Sample Date: 01/27/2014 **Sample Method:** Grab
Sample Time: 1030

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
AMMONIA NITROGEN	0.052	MG/L	0.008	0.032	350.1	01/30/2014	13:41	MV
TOTAL KJELDAHL NITROGEN	1.39	MG/L	0.05	0.20	351.2	01/29/2014	09:36	JB
NITRATE NITROGEN	0.004 U	MG/L	0.004	0.016	353.2	01/27/2014	17:35	MV/TN

1711 12th Street East * Palmetto, FL 34221 * Phone (941) 723-9986 * Fax (941) 723-6061

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification # E84167

NITRATE+NITRITE AS N	0.004 U	MG/L	0.004	0.016	353.2	01/28/2014	09:48	TN
TOTAL PHOSPHORUS AS P	0.020 I	MG/L	0.008	0.032	365.3	01/30/2014	13:56	MR
SPECIFIC CONDUCTANCE	1366	UMHOS/CM	1.24	4.96	SM2510B	02/03/2014	11:13	MR
TOTAL SUSPENDED SOLIDS	9.60	MG/L	0.570	2.280	SM2540D	01/29/2014	12:17	JG
PH	8.23 Q	UNITS			SM4500H+B	01/27/2014	15:25	TN
NITRITE NITROGEN	0.008 I	MG/L	0.003	0.012	SM4500NO2B	01/27/2014	17:35	MV
FECAL COLIFORM	360	#/100 ML	10	10	SM9222D	01/27/2014	15:39	KD

Dale D. Dixon
Dale D. Dixon / Laboratory Director

02/06/2014

Tülay Tanrisever / QC Officer

Date

Jessica Sierra Medina / QC Officer

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J = Estimated value.

J1 = Est. value surrogate recovery limits exceeded

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

NOTES:

PQL = 4xMDL

MBAS calculated as LAS; molecular weight = 340.

X = Value exceed MCL

N = Presumptive evidence of presence of material.

O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.

| = Data deviate from historically established concentration ranges.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

* = Not reported due to interference.

ND = Not Detected at or above adjusted reporting limit.

NOTES:

For questions and comments regarding these results, please contact Bettina Beiffuss at (941) 723-9986

Results relate only to the samples.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.Benchmarkea.com

Client:

Sarasota County Environmental Services
 Integrated Water Resources/Domestic Waste
 1001 Sarasota Center Blvd.
 Sarasota, FL 34240
 (941) 650-1112
 (941) 480-3558 fax
 PO#: 140300-140039 01/29/14 BB per HB

Project Name: Skip Stasko Park
 Project Number: 14010986

Laboratory Submission #:

Station ID	Sample Matrix ²	Sample Type ¹	TSS Conductivity pH	T-P, TKN, NH ₃ , NO ₂ , NO ₃ , NO _x	Fecal Coliform		Laboratory Sample #
					Preservative: Plain	Preservative: Sodium Thiogulfate	
North Shore	SW	G	1/27/14 1020	1/27/14 1020	1/27/14 - 1020	1	
South Shore	SW	G	1/27/14 1030	1/27/14 1020	1/27/14, 1030	2	

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. **Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 4°C (39.2°F).**
 Under "Preservative," list any preservatives that were added to the sample container.

Instructions:

1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability: pH
 BEAS Temperature:
 BEA Temperature: 1.9°C

Station	Time	Time	Time
1	1/27/14 1205	1/27/14 1205	1/27/14 12:05
2	1/27/14 1305	1/27/14 1305	1/27/14 1305
3	1/27/14 1447	1/27/14 1447	1/27/14 1447

Sampled By: *[Signature]*
 Sampled By: *[Signature]*
 Sampled By: *[Signature]*

FDEP Bureau of Laboratories, Biology Section, Algal Taxonomy Summary Report

Report date: 01-29-2014
Report sent by: Cheryl Swanson, 850-245-8171, Cheryl.Swanson@dep.state.fl.us
Test: BLOOM-ID
LIMS#: 1572088
Site: B012714-3
Date collected: 01-27-2014
Collector: Ryan Young and Ford Walton
Date received: 01-28-2014
Sample container: 50 mL plastic tube
Sample preservation: not preserved
Sample notes: The sample contained algae in water. The algae in the sample appeared live and healthy.
Analyst(s): Maosen Hua (wet algae); Isaura Lorenzo-Perez (diatoms)

Sample result:

There was no clear dominant taxon in the sample. The sample was not indicative of a bloom condition.

Chrysochromulina sp. (Class Prymnesiophyceae) was present in the unsettled sample along with some other unidentified flagellate species.

Algae present in similar amounts in the sample aliquots settled overnight included *Jaaginema gracile*, *Pseudanabaena limnetica*, *Rhabdogloea* sp., *Planktolyngbya microspira*, *Merismopedia warmingiana*, and *Merismopedia tenuissima* (Cyanophyceae); along with *Chlamydomonas* sp., *Scenedesmus* sp. and *Crucigenia tetrapedia* (Chlorophyceae).

Also present in the settled sample aliquots, but in very low amounts, were *Microcystis aeruginosa* (Cyanophyceae) and *Botryococcus braunii* (Chlorophyceae).

No diatoms were observed in the sample aliquots examined.