

**Butler Chain of Lakes Advisory Board  
Windermere Water and Navigation Control District (WWNCD)  
Regular Meeting  
Orange County - Windermere Library  
September 15, 2014**

**Board Members Present:** Ijaz Ahmed

**Board Members Absent:** Cheryl Miller (Chair), Jason Fulmer, Ann Connolly and Robert Binkley

**Staff & Guests:** Sergio Duarte, Orange County Environmental Protection Division (EPD)  
Lt. Jeff Hudson, Butler Patrol

**Residents:** Lori Bradford, Thellie Roper, Albert and Richard /Diana Cintron.

**I. Call to Order:**

No quorum was achieved for the Advisory Board meeting. Meeting started at 6:07 p.m.

**II. Public Comment on Propositions Before the Advisory Board:** None

**III. Butler Marine Patrol Report:**

Lt. Hudson presented the following report for August 2014:

Total Patrol Hours	108
Uniform Boating Citations	2
Warnings Issued	17
Vessels inspected	68
Disabled Vessels Assisted	2

Richard Cintron inquired about the role of the Butler Patrol and the activities at Bird Island. Lt. Hudson stated that the Butler Patrol has been servicing the Butler Chain residents for over 20 years, and that most of the disorderly conduct / drinking problems at Bird Island have been eliminated during the past five years. Lt. Hudson stated that the Butler Patrol has a role on educating the residents on boating safety and environmental protection issues.

**IV. EPD Report:**

**1. Lake Down Sub-basin 9 Projects / South Florida Water Management District Grant:**

Mr. Duarte stated that Suntime Technologies Inc. completed the installation of the following catch basin inserts (CBI) at Lake Down and Tibet on August 26, 2014:

18 Baskets Installed at the Willow Wood Pond at Lake Down (\$24,012)  
30 Baskets Installed at Lake Tibet (\$31,629)  
20 Baskets Installed at the North side of Lake Down (\$15,479)  
13 Baskets Installed at the Town of Windermere (Lake Down) (\$24,012)  
Total: 81 CBI - filter baskets installed at a cost of \$93,213.00

Mr. Duarte stated that the installation of the CBI at Lake Down and Tibet will address 2,000 acres of drainage areas that currently discharge into the Butler Chain without treatment. Mr. Duarte stated that the \$90,000 grant matching for the South Florida Water Management District (SFWMD) was exceeded by \$3,213.00, and that the SFWMD is scheduled to process a \$50,000 reimbursement to Orange County as part of the grant agreement.

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**2. Mechanical Harvesting of Cattails at Lake William Davis:**

Mr. Duarte stated that Aquatic Weed Control is ready to start the 1.5 acre cattail removal at the northeast cove of Lake William Davis in partnership with seven (7) property owners. Mr. Duarte stated that the only issue pending for the project is the signing of a Right-of-Entry permit for the use of a vacant property off Water Creek Drive.

Mr. Duarte stated that the restoration of the Lake William Davis Cove will be restricted to open water and that the private shoreline areas will be left to the responsibility of the property owners.

~~Mr. Duarte stated that he was approached by Peter Kalogridis and Jim Thomas about the possibility of testing the beneficial bacteria (purple sulfur bacteria) at the Lake William Davis Cove. Mr. Duarte stated that the idea is to use the beneficial bacteria to assist with the muck reduction after the cattail removal project. Mr. Duarte stated that there is the possibility that the beneficial bacteria will be donated to this project by Soil Tweakers LLC and added that if he receives a proposal for the use of bacteria, he will bring this issue in front of the Advisory Board.~~

**3. Lake Down Alum Treatment Facility:**

Mr. Duarte stated that the Orange County Board of County Commissioners selected / approved Enviro-Tech Systems Inc. as the lowest and most responsive bidder on September 9, 2014. Mr. Duarte added that the bid submitted by Enviro-Tech Systems Inc. was \$1,587,115.30, which is approximately \$168,105.70 under the original engineer's estimate for the construction project.

Mr. Duarte stated that as part of the site preparation for the construction, ERD. Inc. is in the process of doing a change order to conduct supplemental services for performing gopher tortoise quantitative population survey and management plan, and gopher tortoise live capture and off-site relocation for the project. Mr. Duarte stated that the scope of services under this change order will provide ecological consulting services required for complying with the permitting requirements of the U.S. Fish and Wildlife Service.

Mr. Duarte stated that the building permit for the alum facility is getting ready to expire on October 1, 2014 and that he is planning to request a permit extension to allow a permit transfer to Enviro-Tech Systems Inc. in November 2014.

Mr. Duarte stated that the construction of the Lake Down Alum Treatment Facility is scheduled to start in November 2014 upon the signing of the contract with Enviro-Tech Systems Inc.

Mr. Duarte stated that the contract for the Lake Down Alum Treatment Facility listed October 1, 2015 as a deadline for substantial project completion. Mr. Duarte indicated that the deadline to complete the project for the Florida Department of Environmental Protection (FDEP) is July 2015, and that a 3-month “grant extension” would be required to secure the FDEP funding of the project.

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**v. New Business:**

1) **Study at Lake Butler Sub-basin 10 (Glenmuir and Lake Butler Sound Subdivisions):**

Mr. Duarte stated that he conducted an initial inspection of Lake Butler Sub-basin 10 with AMEC Inc. Mr. Duarte stated that the inspection included 22 stormwater ponds and the wetland at the Glenmuir and Lake Butler Sound Subdivisions.

Mr. Duarte stated that AMEC plans to collect stormwater samples at the pond outfalls and wetland discharge points within the Lake Butler Sub-basin 10, prior to selecting the final sites for the installation of auto-samplers to monitor storm events.

**vi. Old Business:**

1) **Treatment of Algae (Lyngbya) at Lake Butler:**

Mrs. Thellie Roper inquired about the potential treatment of Lyngbya at Lake Butler.

Mr. Duarte stated the treatment of Lyngbya at Lake Butler could be a difficult task that would require approval from the FWC - regional state biologist. Mr. Duarte stated that the robust structure of *Lyngbya* sp. presents a significant control difficulty using chemical applications and that even the most powerful chemical compounds need an additive to enable them to adhere long enough to the algae filaments for the herbicide to penetrate the protective sheath.

Mr. Duarte stated that Orange County had treated Lyngbya at Lake Conway (finger canals) with limited success; and that over the years had tested different herbicides/ algaecide combinations, as well as the use of oxidants (such as hydrogen peroxide), manual and mechanical harvesters, and ultrasound equipment to induce lyses at the algae cell microscopic level. Mr. Duarte stated that in many places the only Lyngbya control technique in use is mechanical harvesting. Even though when thoroughly done, the harvesting machinery leaves behind microscopic algal residue, and within a few days evidence of further bloom throughout the harvested area can be seen compounding the problem. Mr. Duarte stated that in recent years the use of beneficial bacteria has been successful to break and treat Lyngbya in combination with some herbicides.

**VII. Non-Agenda Items:** None

**VIII. Meeting Schedule:**

Mr. Duarte stated that the next meeting in October was moved from Monday, October 20<sup>th</sup> to Tuesday, October 28<sup>th</sup>, 2014 at the Windermere Library.

**IX. Meeting Adjournment:** The meeting adjourned at 8:15 p.m.