

Molasses Creek Dredging

Status Meeting

July 13, 2020

Goals

- ▶ Dredge the mouth of Molasses Creek where the mouth is navigable again at low tide and provide future maintenance.
- ▶ Establish an Association to represent the stakeholders in this effort.
 - ▶ Recruit all interested stakeholders (at least 20 with a maximum of all who are affected/benefit from the dredging) - currently at 23
 - ▶ Fund the Dredging Cost
- ▶ Request Payment and/or other Remuneration by the State Port Authority or Army Corps of Engineers

Background

- ▶ Molasses Creek has been affected by the deposit of sand from the shipping channel created by the SPA in the Wando River.
- ▶ Given the unique location of the creek and larger ships, the weight displacements creates a negative pressure and “tsunami-like” wave that is eroding the creek banks and creating a large sand bar throughout the mouth of the creek.
- ▶ The accumulation of sand has only worsened as the sand is “pushed in” from the channel into the mouth of each creek.
- ▶ No natural mechanism exists for the sand to be moved out of the creeks since this is an unnatural deposit of sand.
- ▶ The lack of a navigable channel diminishes the property value and use of enjoyment of all property owners on the creeks.
- ▶ The impact of siltation is increasing due to large ships at the Wando Terminal which create a greater draw or suction from Molasses Creek

Hobcaw Yacht Club Dredging

- ▶ Marcol Dredging - The dredging project took place in the 2013 February/March time frame and the total cost for the originally contracted dredging was \$333,000 for the end of the boat basin. HYC contracted for additional dredging of the sandy shoal we discussed which was an additional \$31,000.
- ▶ HYC gets a marine survey each year to measure the channel and need for dredging.
- ▶ HYC through its membership dues reserves \$60,000 for future dredging with the expectation to dredge approximately every 5 years
- ▶ HYC received a letter/permission from SPA to utilize the Daniel Island spoil area for disposal of its dredging.
- ▶ HYC is open to collaborating on future dredging with other dredging efforts in Molasses or Hobcaw Creek (cost sharing, etc.)
- ▶ If we co-share the mobilization with HYC, then the mobilization cost is 50% less or approximately \$100,000 each for MCDA and HYC

Dredging Plan

- ▶ Form Mutual Benefit Association for Molasses Creek - legal entity “Molasses Creek Dredging Association”
 - ✓ Initial Funding of LLC
 - ✓ \$1,000 per member
 - ✓ Begin recruiting process (more the better)
- ▶ Permitting Process (\$30,000) - target November 2018
 - ✓ Engage Marcol Dredging and GEL Engineering as our consultant (\$10,000)
 - ✓ Create Dredging Plan
 - ✓ Survey critical area (property around the affected dredging area) - Completed 6/28/2017 (\$5,000)
 - ▶ Soil Test (should be easy given all sand) - No request to date - GOOD
 - ▶ Water Test - completed December 2018 - GOOD test
 - ✓ Disposal Plan - received from SPA via email August 2017
 - ✓ Wave Study - completed May 2018 (\$13,000)
- ▶ Dredging
 - ▶ Set up / Mobilization - anchored piping from mouth to disposal site (largest cost and time) (30 days)
 - ▶ Dredge the area - 10 to 14 days to dredge - estimated 20,000 cubic yards
 - ▶ Wrap up
- ▶ Goal of Navigable Channel by March 2021
- ▶ Develop Future Funding for MDCA and maintenance dredging

State Ports Authority (SPA)

- ▶ Organize Association and Develop Plan
- ▶ Obtain Hydrologist report to confirm the sand accumulation is due to the shipping channel - TBD
- ▶ Determine Appropriate Stakeholders at SPA
- ▶ Scheduled Meeting with SPA
 - ▶ More stakeholder representatives present the better
 - ▶ Share issue and request assistance
- ▶ Financial Support
 - ▶ Direct; or
 - ▶ Mitigation Fund for new SPA dredging project (\$50M fund)
 - ▶ Determine application for Hobcaw/Molasses Creek mitigation
 - ▶ This fund is controlled by Army Corps of Engineers

SPA Preliminary Approval to Use DI Spoil Area

Jack

We will allow disposal of the dredged material in one of our Daniel Island Dredged Material Containment Areas (DMCA). In order to assess and manage this process, please submit the below information. After receiving and reviewing, we will advise the path forward. Also, we must have a copy of the approved permit prior to any dredging operations.

USACE/OCRM Permit Application

Hydrographic survey of existing conditions

Dredging plan, including proposed grades, including horizontal and vertical control.

All documents shall be sealed by a SC Registered Professional Engineer. We also work with GEL on a regular basis and will be happy to discuss with them if you so desire.

If you have any questions, please do not hesitate to contact me. Thanks.

Kind regards,

Jim

James K. Van Ness, III, P.E.

Director, Engineering and Permitting

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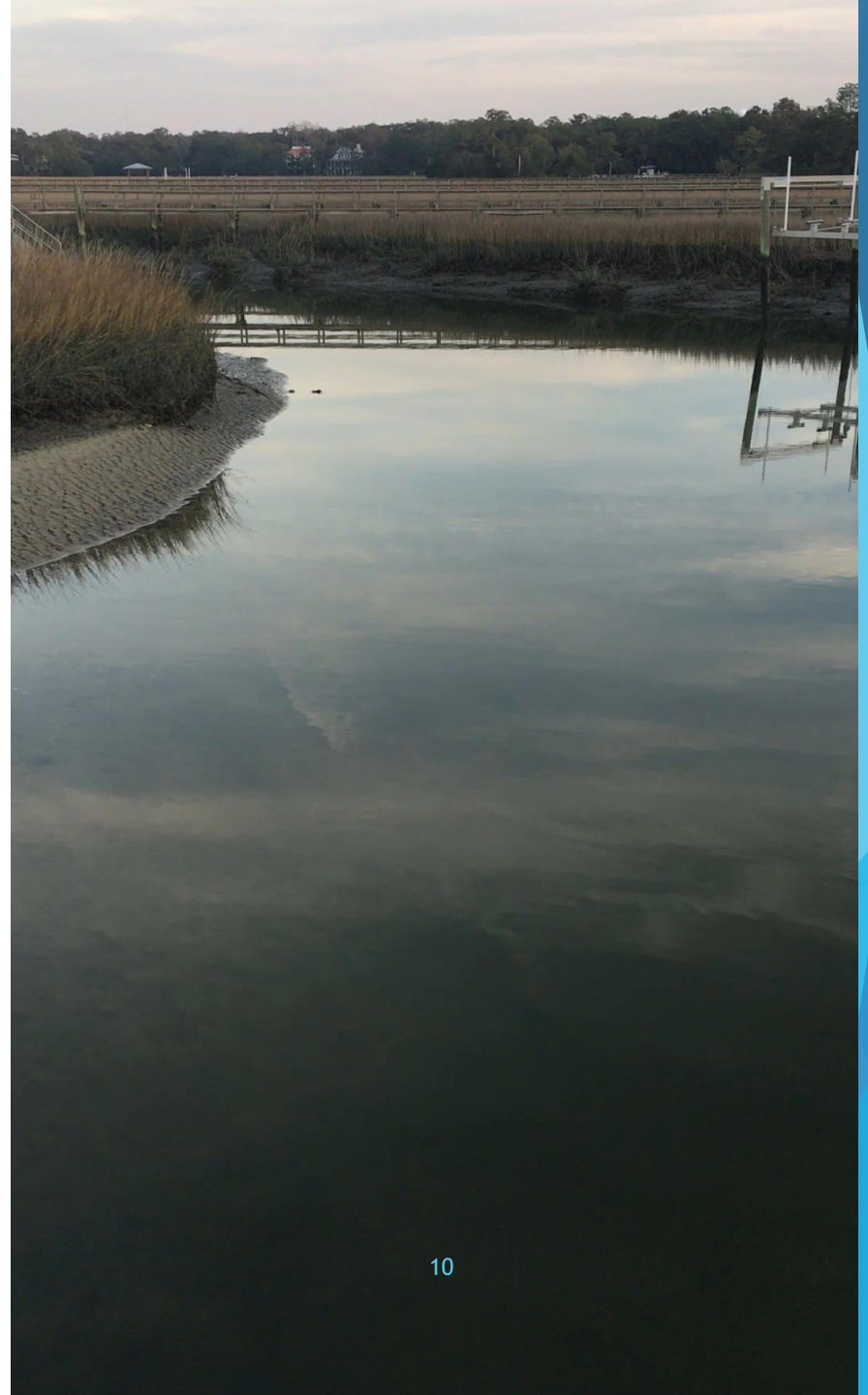
Timeline

- ▶ 10/30/17 - File Complete Dredging Application
- ▶ 2/2020 - Application Approval Complete
- ▶ 8/31/20 - Bid Out Dredging Work
- ▶ November-December - Evaluate Funding Options
- ▶ 12/1/20 - Dredge Designated Area
- ▶ 1/31/21 - Complete Dredging

Estimated Cost

- ▶ \$30,000 Application and Surveys for Dredging Approval
- ▶ \$125,000 Mobilization of Dredging assuming cost share with HYC
- ▶ \$250,000 to \$300,000 20,000 to 25,000 Cubic Yards Removed
 - ▶ Variance is due to minimum and maximum removal of material
 - ▶ If subsidized funding, then Marcol recommends maximum
- ▶ Surveys \$5,000 pre and post dredge
- ▶ \$1,000 - \$2,000 per year per member for surveys and future dredging

Molasses Creek Impact



Dredge Area - 250 Yards



Molasses Creek Interested Stakeholders

- 38 Deep/86 Total

- ▶ River Reach HOA (11 Docks plus 1 HOA)
- ▶ Remley's Park (5 Docks)
- ▶ Remley's Point (3 Docks) and Mt. Pleasant Community Dock
- ▶ River Watch (2 docks plus 1 HOA)
- ▶ Molasses Creek HOA (24 Docks - 10 deep water)
- ▶ Hobcaw Point HOA (34 Docks + 9 offshoots - 10 deep water)

Molasses Creek Dock Owners



Molasses Creek Dock Owners



Deep v. Tidal

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1989

32°48'54.95" N 79°53'19.91" W elev 7 ft eye alt 2830 ft

Plan Of Action

- ▶ Form Association - COMPLETED April 2017
- ▶ Fund Association - COMPLETED Ongoing \$23,000 to date
- ▶ Execute Marcol Contract for Permitting - COMPLETED
- ▶ Begin Permitting Process - 10/31/2017
- ▶ Wave Study - COMPLETED May 2018
- ▶ Obtain Permit - COMPLETED 2/2020
- ▶ Recruit Other Members - Ongoing
- ▶ Plan Dredging (coordinate with HYC) - November 2020 to March 2021 dredge
- ▶ Dredge - December 2020
- ▶ Future Funding - TBD
- ▶ Manage Association

Members

	Members Name	Initial Deposit	2019 Dues
1	Tim Wise	X	X
2	George Bullwinkell Jr.	X	X
3	Scott Williams	X	X
4	John & Kelly Verner	X	X
5	Kevin & Emily Smith	X	X
6	John & Linda Wall	X	X
7	Shane & Tammy Swanson	X	
8	John & Angela Geraci	X	X
9	John Popelka	X	X
10	Neil Robinson	X	X
11	Eric Loesch	X	X
12	Vacation Rental of Charleston	X	X
13	Molasses Creek POA	X	
14	Shaun Chambers	X	
15	River Reach HOA	X	
16	Robert Graybill	X	
17	Dave McSweeney	X	
18	James Stelling	X	X
19	Charles Hill	X	
20	Joseph & Kathleen Hodgson	X	X
21	Feltman Inc.	X	
22	William Hennessay Jr.	X	X \$2000
23	Harold Clinkscales Jr.		X \$1,000