



Aug 18, 2011

Weekly Meeting Memo CSE-14

MEMO

TO: Cliff Ogburn, Town of Nags Head, NC

FROM: Haiqing L. Kaczkowski (PE) and Tim W. Kana (PG)

RE: Nags Head Beach Nourishment Project (CSE 2203)
Weekly Project Meeting of the Town, the Contractor, and the Engineer

The weekly project meeting of the Town of Nags Head, the Contractor (Great Lakes Dredge & Dock, referred to as GLDD) and the Engineer (Coastal Science & Engineering, referred to as CSE) was held from 9:10 a.m. to 9:50 a.m. on Thursday, 18 August 2011, at the Town Hall. Items discussed during the meeting are summarized herein.

1) GLDD Production Updates

The Texas finished work for the Nags Head project as of the morning of 16 August, 2011. She will remain on site for demobilization for the next several days, and then will transit to Norfolk, VA. Since she started pumping on June 21, 2011, the dredge has pumped from stations 898+00 to 1007+00 (a total of 10,900 linear feet or 2.1 miles) with a reported volume of approximately 1.7 million cubic yards (cy), which is ~37% of the total contract volume (ie - 4.6 million cy). She left about 150,000 cy of work between stations 1007+00 and 1025+00 at the south end of the project, and the Liberty Island will finish that part of nourishment.

Last Friday August 12, the Liberty Island finished her scheduled work by using the submerged pipeline near station 645+00 and met the completed section at station 694+00. The elbow was flipped and she started pumping north using the same landing point for half a day before she went to Norfolk for fuel shortly after midnight on Saturday, August 13. She returned to the job



site within 24 hours and resumed pumping without any delay. She first pumped north from the landing point at station 645+00 and made it to station 635+00 just north of the Nags Head Inn. The dredge then moved to the submerged pipeline at station 898+00 (south of the Outer Banks Pier) and proceeded northward from there on the afternoon of Sunday, August 14. She was pumping north at station 887+00 on the morning of this meeting and will approach the Outer Banks Pier to meet the finished section at station 878+00. She is expected to finish this section by Saturday or Sunday, and afterwards she will move to the landing point at station 645+00 and proceed northward from the finished section at 635+00. Meanwhile, GLDD will be working on setting up a landing point near station 1007+00 where the Texas stopped. Once that landing point is in place, the Liberty Island will move to that location and finish the nourishment at the south end of the project.

As of today, the Liberty Island and the Texas together have moved approximately 3.7 million cy of sand, which is about 80 percent of the contract volume. About 35,200 linear feet (~6.7 miles) of beach has been nourished, which is ~67 percent of the total project length (10 miles or 52,800 linear feet).

2) GLDD's Two New Dredges on Site

Since the Texas will not return to the job site, GLDD has decided to bring in the Dodge Island and the Padre Island, two hopper dredges, to finish the project. The two dredges will be mobilized to the site with the Dodge Island likely arriving this Thursday evening, August 18 and the Padre Island following several days later. Both dredges have about half the pumping capacity of the Liberty Island. They will share the same landing points with the first one near station 535+00 and the second one near station 570+00. The tentative plan is that while one dredge is digging sand in the borrow area, the other dredge will be pumping sand onto the beach. If this work pattern continues, it is expected that they together may achieve comparable production to the Liberty Island.



The current trawler, Catina Renea, will continue to work in Borrow Area #2 where the Liberty Island is digging. There will be a second trawler arriving on site before the Dodge and the Padre Island begin dredging.

GLDD has scheduled an environmental inspection on board the dredges with USACE representatives in compliance with the permits,.

3) Sandbag Issues

The CAMA staff placed the last two groups of stakes in front of the sandbag properties located near stations 1007+00 and 1018+00 on Friday afternoon, August 12. The contractor will not encounter any other properties with sandbag issues for the remainder of the project.

4) Beach Condition and Revision of Fill Templates

CSE's most recent survey confirmed that there has been natural accretion on the upper beach during the time between the design condition of November 2010 and the survey condition of June 2011. CSE has been revising the fill templates as the construction progresses in light of such accretion. GLDD's before-dredge (BD) survey confirmed that this natural build-up of dry beach has continued during the past two months. Further revision of fill templates is necessary in order for the contractor to accomplish the permitted volume of 4.6 million cy. CSE will continue to use the seaward boundaries that were approved in the CAMA permits as a guide in revising the templates, and may raise the berm elevation to +7 ft NAVD in some sections where the natural beach has higher profiles. Such revisions remain within permit requirements.

CSE will work closely with the contractor to review relevant information such as before dredging (BD) data, after dredging (AD) data, and volume calculations. The revised fill templates will take into account the volumes finished to date versus the contracted total volume while remaining in compliance with the permits.



5) Sea Turtle Monitoring on the Beach

Sea turtle monitoring on the beach has been going smoothly. The turtle monitor coordinator will schedule appropriate numbers of monitors according to GLDD's work schedule. The coordinator reported that the three turtle nests found in the project area and relocated to Kill Devil Hills will be hatching in a day or two. Typically it takes about three days for new born turtles to move away from the beach and into the ocean.

There have been no new turtle nests found within or adjacent to the project area during the past three weeks.

6) Sand Fencing Installation

In a recent board meeting the Town decided to pursue sand fencing installation on the 9,000 ft of beach at Reach 3 between stations 920+00 and 1010+00. Funds are also available for other areas outside of Reach 3, and such funds will be approved individually on a case by case basis. The Town may conduct a few workshops for property owners regarding the sand fencing installation and/or beach grass planting. CSE will provide recommendations to the Town as to where to place the fencing.

7) Ocean Outfall Extension Project

The ocean outfall extension project will not begin until the surrounding beach has been nourished and all pipes have been removed from the adjacent area of an individual outfall. The Town will send a draft contract to the successful bidder and coordinate with them regarding the details of the extension plan.

8) Anticipated events and schedule for next week

*Thursday, 25 August, at 9 a.m. — Weekly project meeting at the Town Hall
(The Town, the Contractor, and the Engineer are expected to attend.)*

Enclosure: List of attendees and their contact information