



July 28, 2011

Weekly Meeting Memo CSE-11

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 9:00 a.m. to 9:40 a.m. on Thursday, 28 July 2011, at the Town Hall. An updated work schedule was distributed by the GLDD project manager before the meeting. Items discussed during the meeting are summarized herein.

1) GLDD Production Updates

The Liberty Island has been working efficiently during the past week and has made significant progress. The dredge has been pumping southward from the landing point at station 825+00. She has finished approximately 2,600 ft of beach nourishment over the past week, and was pumping at station 858+00 on the morning of this meeting. She has finished 289 loads with a reported volume of approximately 1.2 million cubic yards of sand since she started pumping on 24 May 2011.

A new landing point for the Liberty Island is in the process of being set up at station 645+00 near Enterprise Street. Once the submerged lines are in place, she may move to this landing point and



proceed southward from there. However, since the Liberty Island is close to the Outer Banks Pier (station 875+00), she may continue to pump southward from her present location and finish the sections north of the Pier before moving to the landing point at station 645+00.

The Texas finished her repairs and returned to the jobsite yesterday afternoon, 27 July 2011. She resumed pumping early that evening after her pipelines were setup, and she is proceeding southward from the landing point at station 960+50. She was pumping at station 963+00 on the morning of this meeting, and has a reported total volume of approximately 980,000 cy since she started pumping on 21 June 2011.

GLDD plans to bring the booster “Jack” to the site and insert it into the Texas line to increase production. The booster is expected to arrive in Nags Head in about one to two weeks.

Together the dredges have moved approximately 2.2 million cubic yards of sand, which is almost half of the contract volume of 4.6 million cy. About 22,400 linear feet of beach has been nourished, which is ~42 percent of the total project length (10 miles or 52,800 linear feet).

2) Escarpment

CSE staff monitored the entire beach early on the morning of this meeting. No escarpments were observed. CSE and GLDD will continue to monitor the beach, and encourage the town staff and life guards to report any escarpment that is greater than 18 inches so that it can be addressed as soon as possible.

3) Sandbag Issues

The CAMA staff placed stakes in front of the sandbag properties near stations 840+00, 850+00, 851+00, 854+00 and 857+00 (Liberty Island sections) over the past week. CAMA staff will place stakes in front of the properties near stations 864+00 and 871+00 this week. These are the sections that the Liberty Island is expected to encounter this coming week if she continues to



proceed southward. If the Liberty Island moves to her next landing point at station 645+00 and proceeds southward from that point to the completed sections near station 700+00, she will not encounter any properties having sandbag, easement or lawsuit issues. During the coming week, the Texas will not be pumping near properties with sandbags.

During the past week there were no reports of sandbag removal.

4) Dredging Quality Management (DQM) Report from the USACE

A DQM report from the USACE Mobile District Operation Division was received on 27 July 2011. It is a summary of the Liberty Island's profile between July 19th and 26th. No new issues were mentioned in this report.

5) Sea Turtle Nests Relocation and Sea Turtle Monitoring on the Beach

A loggerhead sea turtle nest was observed in the project area near Loon Street (station 1005+00) on Wednesday morning, July 27th. Ninety eggs were found in this nest — 89 eggs were relocated to Kill Devil Hills by NEST professionals, and 1 egg was removed for DNA study. This nest brings us to a total of 4 nests within the project area and 1 additional nest just north of the project boundary.

Sea turtle monitoring on the beach has been going smoothly. There has been no deviation on the beach over the past week.

6) Ocean Outfall Extension Project

Bids for the ocean outfall extension project were opened publicly last Friday, 22 July 2011. Three effective bids were received by that date, and the lowest bidder was Carolina Marine Structures with a bid of approximately 1.4 million dollars. The other two bids were ~2.3 million dollars by T.A. Loving and ~2.5 million dollars by George Raper & Son (respectively). The



construction times estimated by the three bidders are between 3 weeks to 2 months per outfall. The total cost of the project will also include the engineering fee from the NC-DOT.

The tentative construction plan for the outfall extension is that the contractor will finish a portion of the extension which sits on the existing dry beach before the nourishment, and finish the rest of the extension after the nourishment provides an additional platform for the work.

7) Safety for Working Outside in the Heat

There have been several days during the last week when the heat index was over 100 °F, and although the temperature is expected to drop slightly this week, heat index values may still reach levels that are dangerous for those working outside. GLDD has been thoroughly explaining the safety risks associated with this weather to their fill site personnel, and has prepared plenty of water and ice on the jobsite.

8) Anticipated events and schedule for next week

*Thursday, 4 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