

APPENDIX E

Pertinent Correspondence

-----Original Message-----

From: Thalhauser, Jenifer E NAN02
Sent: Thursday, August 22, 2013 2:17 PM
To: Ruben, Howard NAN02; Wepler, Peter M NAN02; Rightler, Kimberly A NAN02;
Zuzulock, Andrew J NAN02; Cresitello, Donald E NAN02; Shea, Jason A NAN02
Subject: FW: Anadromous fish (SH to Barnegat- Elberon to Loch Arbour)
(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

See below...

Information on the anadromous fish for this project (from NJDEP).

-----Original Message-----

From: Dixon, William [<mailto:William.Dixon@dep.state.nj.us>]
Sent: Thursday, August 22, 2013 11:24 AM
To: Carberry, Hugh
Cc: Muffley, Brandon; Allen, Russ; Keiser, Benjamin; Thalhauser, Jenifer E NAN02
Subject: [EXTERNAL] RE: Anadromous fish

Hugh,

Thank you for the information. The Deal Lake flume may not have to be extended, we will determine when the design is advanced. No flume system existed at Poplar Brook prior to Sandy. Therefore, can we assume a timing restriction will not be required for the construction of that structure?

We will most likely need to install a temporary dam for Takanassee Lake flume or pipe construction. It may not be possible to complete the construction of the permanent structure within the timing restriction time. BCE and the Corps will coordinate further with you.

Thanks, Bill

From: Carberry, Hugh
Sent: Tuesday, August 20, 2013 9:54 AM
To: Dixon, William
Cc: Muffley, Brandon; Allen, Russ
Subject: RE: Anadromous fish

Bill,

Both Takanassee and Deal Lakes have confirmed spawning migration runs of blueback and alewife herring. These migrations were confirmed by the Bureau of Freshwater Fisheries as part of their Anadromous Fisheries Inventory that was instituted following the Clean Water Act of 1972 (see below):

Deal Lake - Confirmed in 1974 by the NJ Anadromous Fisheries Inventory (AFI) for alewife at Main Street. Blueback herring were confirmed by the NJ AFI below Deal Lake Dam in 1976.

Takanassee Lake - In 1985 both alewife and blueback were confirmed within Takanassee Lake. In 1987 only alewife were confirmed. An Alaska Steeppass fishway was in installed in 1987.

I have no data on clupeid spawning migrations at Poplar Brook. However, if there was a flume system in place prior to Hurricane Sandy, there is a good chance that river herring may have used it to go up into the stream to spawn.

Regarding timing restrictions for these projects, I would recommend a March through June restriction to protect adults that are moving into these areas to spawn. Alewife herring spawning from mid-March through April and blueback herring spawn from mid-April to early June. In addition, I would also institute a fall timing restriction as well to protect juvenile river herring that will be emigrating from these impoundments/stream (September through October).

If I can be of any further assistance please feel free to contact me.

-Hugh

From: Dixon, William
Sent: Friday, August 16, 2013 12:00 PM
To: Muffley, Brandon
Cc: Keiser, Benjamin; 'Thalhauser, Jenifer E NAN02'; Keller, Colleen; Carberry, Hugh; Ruben, Howard NAN02; Rightler, Kimberly A NAN02; Allen, Russ; Smith, Christopher; Barno, Lisa
Subject: RE: Anadromous fish

Thank you

From: Muffley, Brandon
Sent: Friday, August 16, 2013 11:59 AM
To: Dixon, William
Cc: Keiser, Benjamin; 'Thalhauser, Jenifer E NAN02'; Keller, Colleen; Carberry, Hugh; Ruben, Howard NAN02; Rightler, Kimberly A NAN02; Allen, Russ; Smith, Christopher; Barno, Lisa
Subject: RE: Anadromous fish

Hi Bill,

I'm going to defer your request to my staff - Hugh Carberry and Russ Allen - and I have copied Freshwater Fisheries Chief, Lisa Barno, and biologist Chris Smith since these species are jointly managed by Marine and Freshwater.

They are the experts on this issue and these species and they can provide their input on the spawning runs and timing restriction issues.

I know Hugh and Russ are away today, but will be in next week.

Let me know if you have any questions or need something further at this point.

Thanks

Brandon

From: Dixon, William
Sent: Friday, August 16, 2013 11:35 AM
To: Muffley, Brandon
Cc: Keiser, Benjamin; 'Thalhauser, Jenifer E NAN02'; Keller, Colleen; Ruben, Howard NAN02; Rightler, Kimberly A NAN02
Subject: Anadromous fish

Brandon,

The Corps and this office are working on the initial beachfill construction design for the last section of Monmouth County's ocean front, Lake Takanassee to Deal Lake AKA Elberon to Lock Arbour. There are three freshwater discharges in this reach Lake Takanassee, Poplar Brook and Deal Lake. Can you please confirm what anadromous fish runs exist and what timing restrictions may be required?

The discharges of Lake Takanassee and Poplar Brook are currently open meandering channels on the beach. We are proposing to construct a pipe or flume through the proposed beach. Deal Lake has an existing flume and its current length may not need to be extended. Deal Lake is a confirmed herring run, I am not aware if there is a confirmed run at Lake Takanassee or Poplar Brook.

Thanks, Bill

William T. Dixon
Supervisor
Bureau of Coastal Engineering
1510 Hooper Avenue
Toms River, NJ 08753
(732) 255-0767
(732) 255-0774 fax

From: Thalhauser, Jenifer E NAN02 [<mailto:Jenifer.E.Thalhauser@usace.army.mil>]
Sent: Tuesday, August 13, 2013 3:24 PM
To: Dixon, William; Rightler, Kimberly A NAN02; Ruben, Howard NAN02
Cc: Keiser, Benjamin
Subject: Re: [EXTERNAL] Contact

Hi Bill: Any fisheries questions/coordination can go to Howard Ruben and Kim Rightler (copied).

From: Dixon, William
[mailto:William.Dixon@dep.state.nj.us]<mailto:[mailto:William.Dixon@dep.state.nj.us]>
Sent: Tuesday, August 13, 2013 12:12 PM Pacific Standard Time
To: Thalhauser, Jenifer E NAN02
Cc: Keiser, Benjamin
<Benjamin.Keiser@dep.state.nj.us<mailto:Benjamin.Keiser@dep.state.nj.us>>
Subject: [EXTERNAL] Contact

Who is the Corps contact on the fisheries issues for the Deal reach?

William T. Dixon
Supervisor
Bureau of Coastal Engineering
1510 Hooper Avenue
Toms River, NJ 08753
(732) 255-0767
(732) 255-0774 fax

Classification: UNCLASSIFIED
Caveats: NONE



DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

REPLY TO
ATTENTION OF

September 27, 2013

Environmental Analysis Branch

Karen Greene
National Oceanographic & Atmospheric Admin
Habitat and Conservation Division
James J. Howard Marine Science Lab
Highlands NJ 07732

Dear Ms. Greene,

The U.S. Army Corps of Engineers, New York District (District) is proposing storm damage protection measures along an approximately 3.5 mile section of the Atlantic coast line from Elberon to Loch Arbour, within Monmouth County New Jersey (Figure 1, enclosed). Geographically, the project will extend from the north at Lake Takanassee, to the south at Deal Lake. The District will be the lead Federal Agency and the New Jersey Department of Environmental Protection (NJDEP) is the local sponsor. The Elberon to Loch Arbour project is one component of the existing 21-mile Sea Bright to Manasquan, NJ Beach Storm Damage Reduction Project. The overall Sea Bright to Manasquan project was authorized under the River and Harbor Act of July 3, 1958, as modified by Section 854 of the Water Resources Development Act of 1986 (PL99-662), and further modified by Section 4 of the Water Resources Development Act of 1988 (PL100-676) and Section 102 (r) of the Water Resources Development Act of 1992 (PL102-580).

Construction of Section I Contracts 1A and 1B were completed in November 1995 and December 1996 respectively, extending from Sea Bright to Monmouth Beach. Section I, Contract 2, was completed in September 1999, extending from the southern portion of Monmouth Beach into the city of Long Branch, to Lake Takanassee in south Long Branch. Construction of Section II Asbury to Manasquan was completed in 2001. The Elberon to Loch Arbour component of Section I was never constructed due to unresolved real estate concerns.

The unconstructed recommended plan for the Elberon to Loch Arbour segment of Sandy Hook to Barnegat Section II includes the following components:

- Beach Nourishment and Sand Berm: Dredging of approximately 4,450,000 CY of sand would occur at the Sea Bright Offshore Borrow Area (SBOBA) via a hopper dredge equipped with a UXO screen. The sand would be placed along approximately 17,000 linear feet of shoreline, and would include construction of a 100 foot wide berm at an elevation of 10 feet above MLW with a 2 foot high storm berm cap.

Initial construction will last for 16 months. 10,000 CY per day is the estimated production rate.

- Six existing groins would be notched to allow sediment to pass through and prevent sediment impoundment.
- Outfall Pipe Extensions: as many as 14 existing outfall pipes will be extended beyond the construction template (final number of extensions may change based upon final construction template). Outfall extensions are to be supported by timber crib structures or a similar type structure fabricated from composite materials. The cribbing and outfall extensions would be constructed after the fill is placed under the pipe alignment. This allows for completion of pipe extension before placement of final grades of the pipe.
The project includes a re-nourishment cycle of approximately six years for fifty years at an expected volume of 1,298,000 CY of sand per cycle.
- Groin Construction: six existing stone groins within this reach of the project area would be notched to allow for sediment transport and to prevent sediment impoundment.

In summary, the total amount of beach fill required from the SBOBA for the construction and maintenance of Elberon to Loch Arbour is as follows:

Estimated dredged quantities for Elberon to Loch Arbour beach fill.

Projected Construction Year	Estimated Beach Fill Quantity (CY)*
Initial Construction – 2014	4,450,452
6 Years Post Initial Construction	1,298,000
12 Years Post Initial Construction	1,298,000
18 Years Post Initial Construction	1,298,000
24 Years Post Initial Construction	1,298,000
30 Years Post Initial Construction	1,298,000
36 Years Post Initial Construction	1,298,000
42 Years Post Initial Construction	1,298,000
48 Years Post Initial Construction	1,298,000
TOTAL	50,438,068

*Quantities would be updated prior to construction.

The District is currently anticipating advertising the construction contract in June of 2014 in order to award the contract in by September 2014. Construction is expected to last from 12 to 16 months.

The purpose of this letter is to initiate Essential Fish Habitat consultation with the Service regarding the Elberon to Loch Arbour project. Previous to this proposed project, numerous reaches within Sea Bright to Manasquan project utilized the SBOBA as the source for beach nourishment sediments. To satisfy offshore EFH requirements for future re-nourishment cycles of these New Jersey ocean beaches as well as potential Raritan Bay shoreline nourishment projects, the New York District submitted the SBOBA EFH evaluation to the Service in 2009 and again in 2011, the latter in regard to the re-nourishment cycle of the Monmouth Beach reach (pre-Sandy). If the Service requires another copy of this document please let us know.

In regard to near shore aspects of project activity, past results and analysis of placement actions has shown that there is little if any potential for significant adverse impacts (including Total Suspended Sediments) to EFH species or habitat (Atlantic Coast of New Jersey Sea Bright to Manasquan Biological Monitoring Plan, USACE 2001). However, the NJDEP has stated that both Lake Takanassee and Deal Lake have the potential as spawning habitats for the alewife and blueback herring and possibly gizzard shad. The outfall at Deal Lake was previously extended by the local municipality and project plans do not call for any interaction with this structure. Neither outfall nor its function will be adversely affected by the project. The District will be extending the outfall at Lake Takanassee to prevent any impingement of tidal flow that may adversely impact the outfall's function as a migratory fish pathway. The District does not expect any significant adverse impacts to occur to any anadromous fish from the project actions.

As part of this initial consultation and in consideration of the above information the District respectfully requests the Service's assistance with regard to what, if any, updates to the SBOBA/Project EFH are required to bring this document into compliance with all EFH obligations

The District looks forward to discussing these forthcoming EFH obligations with the Service. Please address any comments or questions to Mr. Howard Ruben at (917) 790-8723 or Howard.Ruben@USACE.Army.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Houston". The signature is written in a cursive style with a large initial "L" and a long horizontal stroke at the end.

Leonard Houston
Chief, Environmental Analysis Branch

Sandy Hook to Barnegat Inlet, Elberon to Loch Arbour Storm Damage Reduction Project
Monmouth County, NJ





DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

REPLY TO
ATTENTION OF

Environmental Analysis Branch

August 28, 2013

Mr. Eric Schradling
Acting Field Supervisor
U.S. Fish and Wildlife Service
New Jersey Field Office
927 N. Main St.
Building D
Pleasantville, NJ 08232

Dear Mr. Schradling:

The Army Corps of Engineers, New York District (District) is proposing storm damage protection measures along an approximately 3.5 mile section of Monmouth County New Jersey Atlantic coast, from Elberon to Loch Arbour (Figure 1, enclosed). Geographically speaking, the project will extend from Lake Takanassee, the northern boundary to Deal Lake the southern limit. The District will be the lead Federal Agency and the New Jersey Department of Environmental Protection (NJDEP) is the local sponsor. The Elberon to Loch Arbour project is one component of a 21 mile shoreline protection effort from Sandy Hook to Barnegat Inlet which provides storm damage risk reduction to the highly populated communities and infrastructure located along this area of the NJ shoreline. The entire Sandy Hook to Barnegat Inlet beach erosion control project was authorized under the River and Harbor Act of July 3, 1958, as modified by Section 854 of the Water Resources Development Act of 1986 (PL99-662), and further modified by Section 4 of the Water Resources Development Act of 1988 (PL100-676) and Section 102 (r) of the Water Resources Development Act of 1992 (PL102-580).

Construction of Sandy Hook to Barnegat Inlet, Section I Contracts 1A and 1B were completed in November 1995 and December 1996 respectively, extending from Sea Bright to Monmouth Beach. Section I, Contract 2, was completed in September 1999, extending from the southern portion of Monmouth Beach into the city of Long Branch, to Lake Takanassee in south Long Branch. Construction of Section II of the Sandy Hook to Barnegat Inlet beach erosion control project was completed in 2001. The Elberon to Loch Arbour component was never constructed to due real-estate issues.

The recommended plan for the Elberon to Loch Arbour segment of Sandy Hook to Barnegat Section II includes following components :

- Beach Nourishment and Sand Berm: Dredging of approximately 4,450,000 CY of sand would occur at the SBOBA via a hopper dredge equipped with a UXO screen. The sand would be placed along approximately 17,000 linear feet of shoreline, and would include construction of a 100 foot wide berm at an elevation of 10 feet above MLW with a 2 foot high storm berm cap. Initial construction will last for 16 months. 10,000 CY per day is the estimated production rate.
- Constructing a 100 foot wide berm at elevation 10 feet above mean low water with a 2 foot high storm cap.
- Six existing groins would be notched to allow sediment to pass through and prevent sediment impoundment.
- Outfall Pipe Extensions: as many as 14 existing outfall pipes will be extended beyond the construction template (final number of extensions may change based upon final construction template). Outfall extensions are to be supported by timber crib structures or a similar type structure fabricated from composite materials. The cribbing and outfall extensions would be constructed after the fill is placed under the pipe alignment. This allows for completion of pipe extension before placement of final grades of the pipe.
- The project includes a re-nourishment cycle of every six years for fifty years at an expected volume of 1,298,000 CY of sand per cycle .
- Groin Construction: six existing stone groins within this reach of the project area would be notched to allow for sediment transport and to prevent sediment impoundment.

In summary, the total amount of beach fill required from the SBOBA for the construction and maintenance of Elberon to Loch Arbour is as follows:

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48 Years Post Initial Construction	1,298,000
TOTAL	50,438,068

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Estimated dredged quantities for Elberon to Loch Arbour beach fill.

*Quantities would be updated prior to construction.

Recent and consistent state and federal endangered species monitoring activities throughout the Sea Bright to Manasquan beaches has revealed little if any significant activity of state or federally listed species within the Elberon to Loch Arbour project area. The NJDEP has stated

that both Lake Takanassee and Deal Lake may continue to be spawning habitats for the alewife and blueback herring. The outfall at Deal Lake was previously extended by the local municipality and project plans do not call for any changes in this structure so that neither the outfall nor its function will be adversely affected by the project. The District will be extending the outfall at Lake Takanassee to prevent any impingement of flow that might otherwise affect the outfall's function as a migratory fish pathway. Though not project related, a private entity is planning to install a fish ladder at Lake Takanassee.

The District is currently anticipating completing a draft EA in December 2013 to enable the advertisement of the construction contract in June of 2014. Therefore we would like to complete coordination with your office by 15 November 2013.

With these approximate dates in mind, the District respectfully requests that you review the enclosed Scope of Work and provide cost estimate for a Fish and Wildlife Coordination Act (FWCAR) Planning Aid Letter to update the Elberon to Loch Arbour segment originally discussed in the October 1988 FWCAR completed for the entire Sandy Hook to Barnegat Inlet project.

Should any questions arise, or additional information is needed, please contact Mr. Howard Ruben via (917) 790-8723 or Howard.Ruben@USACE.Army.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Houston". The signature is written in a cursive, flowing style.

Leonard Houston
Chief, Environmental Analysis Branch

Enclosures



DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

REPLY TO
ATTENTION OF

October 29, 2013

Planning Division

Mary Colligan
National Oceanic and Atmospheric Administration- Fisheries
Protected Resources Division
Northeast Regional Office
55 Great Republic Drive
Gloucester, MA 01930

Dear Ms. Colligan:

The US Army Corps of Engineers, New York District (District) submitted a Biological Assessment to your office on August 20, 2013 covering proposed projects in Port Monmouth, Elberon to Loch Arbour, and Union Beach. On September 20, 2013, Ms. Danielle Palmer notified the District of some comments and questions on the Biological Assessment. In response, the District has provided the enclosed document outlining the comments, responses, and changes made to the BA. The following supporting documents are also enclosed (on the CD):

1. Port Monmouth Plan Sheets
2. Union Beach Plan Sheets
3. Elberon to Loch Arbour Plan Sheets

A revised BA is also enclosed, and with this document, the District requests the initiation of formal consultation with NMFS under Section 7 of the ESA. We appreciate your assistance in completing this consultation as expeditiously as possible. If you have any questions, please contact either myself at 917-790-8702, or the project biologist, Ms. Ann Marie DiLorenzo at 917-790-8726.

Sincerely,

for
Leonard Houston, Chief
Environmental Analysis Branch

cf:

Danielle Palmer – NOAA-F
Daniel Marrone – NOAA-F
Karen Greene-NOAA-F
Diane Rusanowski-NOAA-F
Ron Popowski-USFWS