

# Town of


P.O. Drawer 519  
Department of Planning &  
Inland Wetlands Agency  
*Gary A. Goeschel II, Director of Planning /  
Inland Wetlands Agent*



# East Lyme

108 Pennsylvania Ave  
Niantic, Connecticut 06357  
Phone: (860) 691-4114  
Fax: (860) 860-691-0351

## Memorandum

**To:** East Lyme Inland Wetlands Agency  
**From:** Gary A. Goeschel II, Director of Planning/ Inland Wetlands Agent   
**Date:** May 8, 2013

**Re:** All Habitat Services, LLC, Applicant on behalf of Giants Neck Beach Association; for regulated activities within a watercourse, the upper pond, located at property identified in the application as 0 Mamacock Road, Assessor's Map#4.10, Lot# 55 bound by South Bridebrook Road to the south, Griswold Road to the east, Mamacock Road to the west and Amtrak railroad to the north for the purpose of sediment removal and wetland enhancement.

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Upon review of above application, supporting documentation, and Remediation Plan entitled "Plan of Remediation for Accumulated Sediment Removal and Wetland Enhancement, Upper Nehantic Pond, Giant's Neck Beach Improvement Association, South Bridebrook Road Niantic, CT 06357" prepared by All Habitat Services, LLC, I offer the following findings and motion:

### FINDINGS

The East Lyme Inland Wetlands Agency based on the record before it with respect to this application, finds this application to be in conformance with the Inland Wetlands Regulations of the Town of East Lyme and more specifically based on the following:

**Whereas:** The Agency has received an Inland Wetlands Application from All Habitat Services, LLC, Applicant on behalf of Giants Neck Beach Association; for regulated activities within a watercourse, the upper pond, located at property identified in the application as 0 Mamacock Road, Assessor's Map#4.10, Lot# 55 bound by South Bridebrook Road to the south, Griswold Road to the east, Mamacock Road to the west and Amtrak railroad to the north for the purpose of sediment removal and wetland enhancement. The Agency received this application on April 8, 2013 and commenced a Public Hearing on May 8, 2013. The Public Hearing for said application was closed at the Commission's \_\_\_\_\_ meeting. The Agency has reviewed the application, received

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testimony from the applicant, public and Town staff provided the Agency with comment concerning this application's compliance with local requirements and regulations.

**Whereas:** The Application submitted includes all the information required pursuant to Section 7.5 of the East Lyme Inland Wetlands and Watercourses Regulations and includes site plans, wetlands delineation by a soil scientist depicted on the Topographic Survey, a description of the ecological communities and functions of the wetlands and watercourse, a description of how the applicant will change or enhance the ecological communities and function of the wetlands or pursuant to Section 7.6 of the East Lyme Inland Wetlands Regulations. As such, the Application submitted in accordance with Section 7.1 of the East Lyme Inland Wetlands Regulations is complete.

**Whereas:** The project proposes to remove approximately 3,000 cubic yards of accumulated sediment from a natural pond as a result of natural eutrophication and sedimentation from upstream in the watershed using a small scale cutterhead floating hydraulic dredge. Spoils will be dewatered using a series of geotextile fabric tubes which are incorporated into an on-site planned habitat enhancement feature that will serve as a maintainable sediment trap or for-bay.

**Whereas:** There are no other prudent and feasible alternatives that would eliminate or further reduce potential impacts as The project proposes the conservation of water and wildlife habitat and has been designed to enhance the watercourse and existing habitat by creating emergent wetland shrub island features which will result in an enhanced ecosystem without compromising upstream drainage.

**MOTION**

Report 1 yr for 3 yrs

THEREFORE, Based on these Findings, the Agency Moves to APPROVE the application known as All Habitat Services, LLC, Applicant on behalf of Giants Neck Beach Association; for regulated activities within a watercourse, the upper pond, located at property identified in the application as 0 Mamacock Road, Assessor's Map#4.10, Lot# 55 bound by South Bridebrook Road to the south, Griswold Road to the east, Mamacock Road to the west and Amtrak railroad to the north for the purpose of sediment removal and wetland enhancement and further subject to the following administrative requirements and required modifications to the site plan and other materials submitted in support of this application:

1. Notify conservation officer at least 2 days prior to construction to inspect erosion controls.
2. Any proposed Additional work beyond this permit in the wetlands or watercourse or its 100-foot regulated area will require approval from the conservation commission or its certified agent.
3. Any changes to the site plan listed on this permit require notification to the Inland Wetlands

Agent and may require commission approval- a new plan will be given to agent before work begins.

4. No site work shall commence until all applicable conditions are satisfied.
5. Notify Inland Wetlands Agent upon completion of all regulated activities for final inspection and sign off.

This approval is specific to the site development plan submitted as the application of **All Habitat Services, LLC, Applicant on behalf of Giants Neck Beach Association**; for regulated activities within a watercourse, the upper pond, located at property identified in the application as 0 Mamacock Road, Assessor's Map#4.10, Lot# 55 bound by South Bridebrook Road to the south, Griswold Road to the east, Mamacock Road to the west and Amtrak railroad to the north for the purpose of sediment removal and wetland enhancement. Any change in the remediation plan other than those identified herein shall constitute a new application. Any modifications of this approval other than those identified herein shall constitute a new application unless prior approval from the Agency or its Agent is granted.

The applicant/owner shall be bound by the provisions of this Application and Approval.

80% survival rate of  
shrubs

# Town of East Lyme

P.O. DRAWER 519


NIANTIC, CONNECTICUT 06357



Town Engineer  
Victor A. Benni, P.E.

860-691-4112  
FAX 860-739-6930

To: Gary Goeschel, Wetland Enforcement Officer

From: Victor Benni, P.E., Town Engineer 

Date: May 8, 2013

Re: "Plan of Remediation for Accumulated Sediment Removal and Wetland Enhancement", Upper Nehantic Pond, Giant's Neck Beach Improvement Association, South Bridebrook Road Niantic, CT 06357, Prepared by: All Habitat Services, LLC.

A response email (5/8/2013) to the previously submitted Engineering Department comments was provided by All Habitat Services, LLC (the Applicant).

The request for additional information in regards to the inlet/outlet elevations of the existing drainage pipe at the railroad tracks is not as critical. The applicant has indicated that the proposed geotube berm would be set with a minimum 4' wide opening between the geotube sections; thus preventing water from being impounded by the proposed berm.

The responses sufficiently addresses comments raised by this Department's review of the project.

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**Gary Goeschel**

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**From:** David Roach [droach@allhabitat.com]  
**Sent:** Wednesday, May 08, 2013 11:57 AM  
**To:** Gary Goeschel  
**Cc:** Victor Benni; Jennifer Lindo  
**Subject:** Re: Upper Nehantic Pond - Engineering Review  
**Attachments:** Geotube Layout Detail.pdf; ATT00001.htm

Gary,

With respect to the Town Engineers comments, we are pleased to offer the following additional information.

**1) Location, size, type, and inlet/outlet elevations of the existing drainage pipe on both sides of the railroad tracks.**

The culvert headwall and pipe are located on the prepared topographic survey map and several orthophoto maps provided in support of the application. This is a 36" reinforced concrete pipe. South side of tracks outlet elevations are: Top of pipe 7.48 NGVD, Flow Line is 6.68 NGVD

**2) Range of existing & proposed pond water level elevations.**

Water level elevation on 5/6/13 was 7.29 NGVD. The water level fluctuates approximately -1' to +2'. The project is not expected to impact water level elevations.

**3) Proposed location for the geotube laydown area and the upland dewatering system; include limit of clearing, proposed grading, and anticipated perimeter sediment control measures.**

Proposed location for geotube laydown area is identified on orthophoto map titled "Wetland Geo Tube Layout & Planting Plan" submitted in support of the application. An enhanced scale (1" = 17') detail map is attached to this document for reference. The upland dewatering system (flow control with polymer makedown and feed) will be located along the pond's east shore construction access route. Limit of clearing (selective cutting of small brush <1" dbh in construction access area in the immediate vicinity of the pond), proposed grading (raking of any superficial surface disturbance along construction access), and anticipated perimeter sediment control measures are depicted in the drawing titled "Construction Access & Erosion Control" submitted in support of the application.

**4) Detailed site plan showing proposed area of the sediment forebay and the proposed location & elevations of the geotextile tube placement area. The top of any proposed impoundments must be kept at least six (6) inches below the flowline of the inlet pipe located at the north end of the pond.**

Proposed location for sediment traps and geotube laydown area is identified on orthophoto map titled "Wetland Geo Tube Layout & Planting Plan" submitted in support of the application. An enhanced scale (1" = 17') detail map is attached to this document for reference. Elevation of geotube laydown area is 6.96 NGVD, Finished geotube elevation will vary from +3' to +5'. There are no impoundments proposed for this project.

**5) Remediation plan for construction access area; include final site grading and erosion & sediment control measures.**

Remediation of the construction access area is discussed in the "Demobilization" section of the document "Plan of Remediation for Accumulated Sediment Removal and Wetland Enhancement" submitted in support of the application. Final grading will consist of raking of any superficial surface disturbance along construction access. Disturbed areas will be seeded and covered with either long fiber mulch or straw. Perimeter sediment control measures will be removed upon stabilization.

Best regards,

David Roach S-3538  
General Manager  
All Habitat Services, LLC  
(203) 245-1212 Office  
(203) 464-5104 Mobile



Ex "G"

**Geotube Laydown Area**

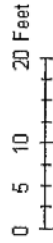
Giant's Neck Beach Improvement Association  
East Lyme, CT

Geotubes placed >4 feet spacing with 10 foot buffer between tubes and property line.

- Legend
- Bertram/Cellment Unit
  - Property Line
  - Perched Geotube
  - ▨ Upper Pond Embankment

Source:  
CT DEEP 2012 aerial photography,  
CT DEEP base map, Upper Nehantic  
Pond boundary modified trimble DGPS  
coordinates based on field data  
collection.

Scale: 1 in = 17 ft



Prepared By:

