

## GROTON CONSERVATION COMMISSION

### Minutes

Tuesday, April 28, 2015

Chairman John Smigelski called the meeting to order at 7:00 p.m. with Susan Black (Clerk), Rena Swezey, Mary Metzger, Marshall Giguere, and Bruce Easom present. Peter Morrison (Vice Chairman) was absent. Conservation Administrator Takashi Tada was present.

#### 7:00 p.m. – Discussion: Invasive Plants at Town Field, Gineane Haberlin, Park Commission

Gineane Haberlin, Chair of the Park Commission, discussed the issue of invasive shrubs at Town Field. Multiflora rose and bittersweet plants are a problem around the shed and the pedestrian entrance off Broadmeadow Road. This area is close to the extensive wetlands bordering James Brook and the Nashua River Rail Trail. Ms. Haberlin said the Park Commission would like to tackle the invasives bit by bit, with guidance and approval from the ConsCom. The Park Commission wants to know what methods and equipment, such as mowing, will be allowed.

For multiflora rose, M. Metzger said pruning and pulling is the best way deal with it. The roots are fairly easy to pull out, and the plant can be left to die without further treatment. For bittersweet, S. Black recommended cutting the vines with hand tools, both at ground level and overhead, and also pruning the lower branches of trees where the bittersweet vines like to climb.

M. Giguere recommended filing a Request for Determination of Applicability (RDA) for work within Buffer Zone, especially if mowing equipment will be used. This will be consistent with other invasive plant projects approved through the RDA process, such as the one being done by the Groton Conservation Trust. If the work is to be done by hand, then the Park Commission may proceed.

M. Metzger said she lived nearby and is available to help identify the different plant species.

#### 7:10 p.m. – Public Meeting: RDA, Septic System Upgrade, 104 Mill Street (B. Rich)

Applicant/owner: Barbara Rich

Representative: Jack Visniewski, Cornerstone Land Consultants

Site Walk: 4/25/2015

Mr. Visniewski presented the RDA for replacement of a failed septic system on behalf of Barbara Rich, 104 Mill Street. An innovative Presby system is proposed in approximately the same location as the failed system. Due to site constraints, there is no other viable location. The proposed system has been approved by the Board of Health. Invasive plants in the septic area will be removed as part of the work to decommission the failed system and build up the new system.

S. Black said removal of the invasive Japanese knotweed is her only concern. M. Metzger asked if the new septic mound area would be grassed. Mr. Visniewski said the area would be seeded and mowed, and should be kept free of woody vegetation.

Upon a motion by M. Giguere, seconded by B. Easom, it was

VOTED: to issue a Negative #3 Determination of Applicability for the septic project at 104 Mill Street, with the following two (2) special conditions:

1. Septic mound to be mowed regularly for at least 5 years.
2. Erosion controls and grading to be done as per the approved plan.

The vote was unanimous.

7:20 p.m. – Public Meeting: RDA, Drainage Improvements, 37 West Main Street (Christian Union Church)

Applicant/owner: Christian Union Church (Joan Denaro, Trustee)

Site Walk: 4/25/2015

Ms. Denaro presented the RDA for drainage improvements and paving behind the Christian Union Church building. The property adjoins the Squannacook Hall parcel and the hope is to coordinate the proposed drainage and paving work with the previously approved Squannacook Hall site improvements. A stone infiltration trench along the northern and northeastern property line will capture runoff from the parking area, while a leach field beneath the parking area will receive roof runoff and sump pump discharge.

M. Metzger asked if they intended to preserve any of the trees in the work area. Ms. Denaro said most of the trees would need to be removed in order to have enough paved parking area. Chairman Smigelski said the excavation required for the leach field and infiltration trench would likely cause the trees to die anyway. B. Easom said the proposal would improve the current situation by recharging the existing, unmitigated roof runoff and sump pump discharge. T. Tada clarified that the Christian Union Church property is just outside of the 100-foot buffer zone as established in 2014 through the Squannacook Hall RDA review. However, the sump pump from the Church was observed at that time to be discharging into the buffer zone.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to issue a Negative #1 Determination of Applicability for Christian Union Church, 37 West Main Street. The vote was unanimous.

Taking up General Business, the Commission reviewed draft meeting minutes from 4/14/2015. M. Metzger and M. Giguere proposed minor corrections on page 8 and page 2, respectively.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to approve the meeting minutes from 4/14/2015, as amended. The vote was unanimous.

7:30 p.m. – Public Hearing: Proposed Revisions, Wetlands Bylaw Regulations, Ch. 344, Art. III  
The Commission invited public comments on its proposed revisions to the Wetlands Protection Bylaw Regulations, Chapter 344, Article III of the Code of the Town of Groton. The main goal of the revised regulations is to make them consistent with the Wetlands Protection Bylaw that was updated in 2014. M. Giguere, who led the Commission’s effort to revise the regulations, noted that the latest revisions included the Consultant Fees Schedule and the use of signage where permanent demarcation of the limits of disturbance is required.

Michelle Collette, Groton’s Land Use Director/Town Planner, commended Mr. Giguere and the Commission for its efforts. She said the proposed revisions would also provide consistency with the recently updated Groton Stormwater Regulations. Ms. Collette raised one issue of concern regarding the proposed Consultant Fees Schedule based on estimated project costs. She said the Building Department recently had a problem with a major renovation project costing much more than originally estimated, but the building permit fees were calculated based on the original estimate. An alternative to this problematic scenario is to seek specific project review estimates from qualified consultants on a case-by-case basis. This is likely to be more accurate and less confusing than an arbitrary fee structure. This will also be easier to manage administratively.

The Commission agreed with Ms. Collette’s suggestion and made further revisions to the Consultant Fees section of the regulations. Applicants will be asked to pay consultant fees based on actual review cost estimates.

Upon a motion by B. Easom, seconded by R. Swezey, it was

VOTED: to close the public hearing on proposed revisions to the Wetlands Protection Bylaw Regulations, Ch. 344, Art. III of Town Code. The vote was unanimous.

Upon a motion by M. Giguere, seconded by S. Black, it was

VOTED: to adopt the proposed revisions to the Wetlands Protection Bylaw Regulations, Ch. 344, Art. III of Town Code, as amended. The vote was unanimous.

7:50 p.m. – Public Hearing (cont’d): NOI, Grading/Filling, 146 Ames Road (Patierno) – DEP #169-1124

Applicants/owners: James & Patricia Patierno

Representative: Dan Wolfe, David E. Ross Associates, Inc.

T. Tada reported that he received a “no-take” determination letter from the MA Division of Fisheries & Wildlife, Natural Heritage & Endangered Species Program (NHESP). The public hearing was kept open to allow for NHESP to complete its review of the Notice of Intent (NOI). He also mentioned that the Patierno’s deed of ownership had been recorded at the Registry.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to close the public hearing for 146 Ames Road, DEP #169-1124. The vote was unanimous.

The Commission reviewed the draft Order of Conditions (OOC) for 146 Ames Road, DEP #169-1124. Minor edits were made to the Special Conditions under the Wetlands Protection Act.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to issue an Order of Conditions under the Wetlands Protection Act for 146 Ames Road, DEP #169-1124, as amended. The vote was unanimous.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to issue an Order of Conditions under the Groton Wetlands Protection Bylaw for 146 Ames Road, DEP #169-1124. The vote was unanimous.

8:05 p.m. – Public Hearing (cont'd): NOI, Sonar Herbicide Treatment, Baddacook Pond (Selectmen) – DEP #169-1123

Applicant: Board of Selectmen

Representative: Jim Luening, Chairman of Great Ponds Advisory Committee (GPAC)

Mr. Luening and Russ Harris of *The Groton Herald* were granted permission to record the proceedings. The Commission reviewed the punch-list of two outstanding items from the previous hearing. Updates on each item are noted as follows:

1. Clarification from Town Counsel about the status of Baddacook Pond as a Massachusetts Great Pond.
  - a. Update: Still waiting.
2. Toxicity of chlorine in drinking water. George Barringer said he would follow up on this.
  - a. Update: Earlier today Mr. Barringer provided information on the toxicity of chlorine and its use in drinking water.

Prior to discussing the issue of chlorine in drinking water, Mr. Barringer stated he would also like to clarify some comments made during the previous hearing. The Commission allowed him to do so. Mr. Barringer said the area of Fanwort infestation in Baddacook Pond appeared to be 29 acres, rather than 35 acres as reported by GPAC. He explained the technical difference between the terms “degradation” versus “irreversible”. He surmised that Sonar has never been detected in drinking water wells because there is not enough testing done for it. He said Sonar is a broad-spectrum herbicide that will have some impact on all plants, including native species.

He also said the Sonar innovator, Eli Lilly, acknowledged some impact on fish populations. He asked if Art Prest had any written documentation of the economic basis for delisting of Sonar in the E.U. And lastly, he noted the absence of any toxicity data for one category of transformation products of Sonar known as carbolic acids.

On the subject of chlorine, Mr. Barringer outlined the eight documents he submitted today for the public record, relating primarily to the toxicity of chlorine and sodium chloride (table salt). He concluded by saying the future of Groton's water supply was in the Commissioners' hands. M. Giguere responded that the Commission's permit process was just one among several. Mr. Barringer conceded this point. M. Giguere further noted that the expertise of a toxicologist would have been helpful, given that Sonar has been used for 30 years in public drinking water supplies with no evidence of negative impacts. Mr. Barringer replied that epidemiological studies are difficult to do and there are only a couple of cases nationwide where proof of harm has been established through epidemiology. M. Giguere suggested that nobody has done an epidemiological study on Sonar because nobody has reported a problem with it.

B. Easom asked for confirmation that MassDEP comments indicated it was okay to apply Sonar in the Zone II portion of the pond, but not within the Zone I. He said this did not seem to make sense. Mr. Luening confirmed.

M. Metzger remarked that NHESP has issued a "no take" determination letter approving the Sonar treatment in aquatic rare species habitat, whereas the use of benthic mats would likely result in a prohibited "take". M. Giguere said the trial use of benthic mats in Lost Lake proved to be ineffective in controlling weeds, while causing damage to the pond.

Chairman Smigelski asked Mr. Barringer to explain the range of partition coefficients for chemical constituents. Mr. Barringer said it can range from zero to millions, and indicates how fast a substance leaches from soil. He said the partition coefficient of Sonar is approximately 400, which indicates a bond with soil particles that is not irreversible (i.e. it could leach into groundwater).

S. Black observed that invasive weeds will continue to be brought into the pond by recreational boaters, even with the monitoring efforts currently being implemented at the state's boat ramp. She wondered if protection of the water resource should extend to a ban on boats. Mr. Luening responded that the pond is not the source of the drinking water (Baddacook Well is a groundwater supply well).

M. Metzger discussed the two fundamental questions that pertain to the mission of the Water Department and BOWC: is Sonar safe, and what would be the impact of Sonar use on the water rate payers? She said she understands the cautious approach taken by the BOWC, given the many unknowns. She also thought the BOWC's requests regarding indemnification and more frequent testing, if Sonar is applied in the pond, seemed reasonable. But the body of available scientific evidence overwhelmingly supports the notion that Sonar is safe to use as proposed in the NOI. There is never a zero percent risk, and in her mind it comes down to weighing the risk of treating the pond versus the risk of inaction.

M. Metzger also asked if the cost of using divers to hand-pull the weeds had been assessed. R. Swezey said this was tried at Lost Lake and it did not work; it also raised safety concerns. Susan Horowitz echoed the concern about the danger of diving in Baddacook Pond. Alex Woodle added that hand-pulling weeds would disturb the mucky bottom and result in serious visibility concerns.

Mr. Luening said he spoke to the consultants who would perform the treatment about applying Sonar in the Zone II but not the Zone I. They said some migration of Sonar into the Zone I was inevitable and would result in “de facto” treatment.

On the issue of toxicity, Art Prest said the toxicity of table salt is worse than Sonar herbicide, as measured by its LD50 level.

Mr. Woodle expressed a number of comments. He said the process used by the USEPA and MassDEP to review/approve chemicals was both rigorous and necessary, and it allowed for the use of approved chemical products in life. Sonar has been approved through this process. He decried the BOWC’s hypocrisy regarding regulatory standards, and said the fear-mongering in the local press was reprehensible. He further stated that GPAC’s purpose is to make recommendations to the Selectmen, and they did extensive research on this issue before recommending the use of Sonar. He ended his comments by thanking the Commission for holding these public hearings.

Chairman Smigelski asked for final thoughts from the Commission. R. Swezey said she was ready to close the hearing. B. Easom reminded that Town Counsel had not yet issued a follow-up legal opinion on the issue of Great Pond ownership. M. Metzger mentioned that the use of milfoil weevils, as brought up in the comment letter from Thomas and Norma Hartnett, was not a viable alternative to begin with and would be ineffective because the weevils don’t eat Fanwort. Ms. Horowitz said GPAC researched the use of weevils years ago and eliminated it from consideration.

Michelle Collette commented that the Commission should weigh the integrity of Groton’s public water supply versus the control of invasive weeds. She reminded the group that, in the 1980s, the Town’s residents were told the effluent from the Conductor Lab facility was “safe to drink”. Fortunately, voters at Annual Town Meeting had the foresight to extend public water to residents on Gratuity Road. Upon further examination the Conductor Lab effluent turned out to be contaminated with highly toxic chemicals such as hexavalent chromium and trichloroethylene (TCE). Mr. Woodle objected to the comparison between toxic heavy metals used at the Conductor Lab facility and a registered pesticide approved for use in drinking water.

Gary Hoglund, Chairman of the BOWC, referred to the testimonial letter by Catharine Paris of Natick, addressed to the Natick Conservation Commission. Her letter argues against the use of chemical pesticides. A copy of her letter was attached to comments submitted to the Water Department by Thomas & Norma Hartnett, 41 Martins Pond Road. Mr. Hoglund also introduced a memo from the BOWC listing six special conditions that they would like added to the Order of Conditions, if the NOI is approved. A copy of the memo was handed to the Commission. Mr. Hoglund also said they have compiled a preliminary list of four potential Sonar treatment

experts. He said a major point of disagreement is with USEPA oversight of drinking water. The BOWC does not want Groton's water supply to become a science experiment; hence the need for expert guidance.

Jim Gmeiner, Water Commissioner, emphasized that the BOWC's preference is for denial of the NOI. The list of proposed special conditions mentioned by Mr. Hoglund only pertains if the Commission chooses to issue an Order of Conditions. B. Easom wondered how much indemnification would be enough. Mr. Luening asked for a copy of the BOWC's list of experts. Mr. Hoglund said he would provide the list via email. Art Prest reiterated the point that Sonar is approved for use in drinking water, therefore what is the risk? Ms. Horowitz added that the direction of water flow in Baddacook Pond was away from the public supply well.

Chairman Smigelski asked Tom Orcutt, Water Department Superintendent, if the Baddacook Well is a groundwater or surface water well. Mr. Orcutt replied it is a groundwater well. He said a surface water well would require a very different setup. Chairman Smigelski then asked if the BOWC owned all of the area within the Zone I (400-foot radius around the well). Mr. Orcutt said no. Ms. Collette noted that the hydrogeological study conducted in 1982 showed a connection between the groundwater well and the surface water in Baddacook Pond, under maximum pumping rates. Chairman Smigelski asked if the Baddacook Well produced enough water to supply the whole town on its own. Mr. Orcutt responded no; if we lose the supply from Whitney Well for whatever reason, then the contingency plan is to get water from the Town of Westford.

Upon a motion by M. Giguere, seconded by B. Easom, and with no objection from Mr. Luening, it was

VOTED: to continue the hearing for Baddacook Pond NOI, DEP #169-1123, to 5/12/15.  
The motion was approved unanimously.

Moving on to Open Session items, the Commission reviewed proposed field changes at 99 Boathouse Road, DEP #169-1117. The applicants are proposing two minor plan changes for reconstruction of the single family house. The house was destroyed by fire in 2013. The proposed changes involve drilling a new well in the level area near the road, and shifting the foundation back approximately 4 feet (away from Lost Lake) in order to tie in to the reusable portion of the existing foundation wall. They were unable to resurrect the existing well; hence the need for a new well. Portions of the existing concrete foundation were also deemed to be unusable and will need to be removed.

Upon a motion by B. Easom, seconded by M. Giguere, it was

VOTED: to accept the proposed new well as a minor field change.

Upon an amended motion by B. Easom, seconded by R. Swezey, it was

VOTED: to accept relocation of the foundation as a minor field change, contingent upon a site visit by T. Tada to confirm the removal of the old foundation is consistent with the Order of Conditions. The vote was unanimous.

Moving on to General Business – Land Management, M. Metzger presented a draft management plan for Baddacook Field for the Commission’s consideration. T. Tada will provide a copy of the draft plan to NHESP for comments. He will also request cost estimates from licensed pesticide applicators for the potential chemical treatment of Black Swallow-wort and Japanese Knotweed. S. Black remarked that the spraying of Black Swallow-wort would also help to reduce the amount of poison ivy in the same area.

Prior to adjournment, T. Tada presented a copy of the schedule for the “Connecting Communities” events to be held in Groton on May 31<sup>st</sup>.

There being no further business, upon a motion by B. Easom, seconded by S. Black, it was

VOTED: to adjourn the meeting at 9:55 p.m. The vote was unanimous.

Notes taken by

Takashi Tada  
Conservation Administrator

**Exhibits on file at Conservation Commission Office:**

1. NOI, Baddacook Pond Herbicide Treatment (Selectmen), DEP #169-1123
  - a. WPA Form 3, Notice of Intent
  - b. Assessors Map
  - c. USGS Locus Map
  - d. Project Description
  - e. Notification to Abutters
  - f. Certified Abutters List
  - g. Copy of MESA Filing Fee Check
  - h. “Baddacook Pond Baseline Survey 2011”, prepared by ACT, dated 7/2011.
2. Supporting Documents, Baddacook Pond NOI:
  - a. GPAC PowerPoint Presentation (J. Luening)
  - b. MassDCR Rapid Response Plan For Fanwort, prepared by ENSR
  - c. Baddacook Well Zone I – map figure provided by GPAC
  - d. Material Safety Data Sheet for SePRO Sonar herbicide (fluridone)
  - e. Sonar fact sheets, compiled by GLA
  - f. Article re: drowning in Framingham, MA



- g. USDA-NRCS Soils Maps for Baddacook & Spectacle Ponds
  - h. Baddacook Well MPA Testing Results, provided by MassDEP
  - i. Letter from SePRO's Regulatory Affairs Manager, Laurent C. Mézin, dated 2/23/2015.
3. Comments & Responses To Comments on the Baddacook Pond NOI:
- a. BOWC Memorandum to BOS *et al*, dated 1/28/2014.
  - b. Response to BOWC titled, "Restoration & Revitalization of Baddacook Pond". Prepared by A. Prest on behalf of the GLA, dated 2/10/2014.
  - c. BOWC Memorandum to BOS *et al*, dated 9/23/2014.
  - d. Response to BOWC titled, "Baddacook Pond Environmental Restoration – Answers to Water Commission Questions". Prepared by GPAC.
  - e. Email correspondence from Hotze Wijnja, PhD., Environmental Chemist for MassDAR, dated 2/23/2014.
4. Additional information/comments presented during Baddacook Pond NOI public hearing, 2/24/2015:
- a. Groundwater and Public Policy Leaflet #2, "How Contaminants Reach Groundwater". Prepared by Arthur G. Hornsby, University of Florida, for the Groundwater Policy Education Project. Copy presented by Jim Gmeiner, BOWC.
  - b. Article from the January 2015 issue of *Civil Engineering* magazine relating to cyanotoxins in drinking water. Copy presented by Val Prest.
5. Additional information/comments received between the 2/24/2015 public hearing and the 3/10/2015 public hearing on Baddacook Pond NOI:
- a. "Neponset Reservoir, Aquatic Vegetation Management Program, 2009 - Year End Report", prepared by ACT. Final draft dated 12/30/2009. Copy provided by Jim Luening on 2/24/2015.
  - b. Legal opinion from Town Counsel David Doneski of Kopelman & Paige, P.C. Original email dated January 07, 2014. Forwarded by Tom Orcutt on 2/25/2015.
  - c. Photograph of Baddacook Pond outlet grate, taken by J. Luening and provided via email, 2/25/2015.
  - d. Email from J. Luening to Board of Selectmen *et al*, re: hiring of outside consultant, dated 3/2/2015.
    - i. Email reply from Mary Metzger to J. Luening, dated 3/2/2015.
    - ii. Email reply from Jim Luening to M. Metzger, dated 3/3/2015.
  - e. Email correspondence from J. Luening to MassDEP Drinking Water Program, dated 3/5/2015.
  - f. Email reply from Robert Bostwick, MassDEP Drinking Water Program, to J. Luening, dated 3/9/2015.
  - g. List of drinking water reservoirs treated with Sonar, prepared by SePRO. Copy provided by J. Luening, 3/10/2015.
6. Additional information/comments received between the 3/10/2015 public hearing and the 3/24/2015 public hearing on Baddacook Pond NOI:
- a. Map figures re: Baddacook Pond inlets/outlet locations and extent of Zone 1. Provided via email by Bill Strickland, 3/11/2015.
  - b. NHESP Determination Letter, File #09-26352, dated 3/11/2015.

- c. Documentation of water rights from BOWC submitted by T. Orcutt on 3/12/2015, including:
    - i. "History of Groton Water" by Groton Water Dept., 9/10/1987.
    - ii. "Acts of the Town re: Water Department", summary of 1982 Annual Town Meeting.
    - iii. Copy of House Bill #323, Ch. 338, "An Act to Incorporate the Groton Water Company" (Legislative Act of 1897).
    - iv. Excerpts from Groton Water Company Annual Reports referring to specific legal cases re: "taking" of water rights of Baddacook Pond.
    - v. Copy of Quitclaim Deed from Groton Water Co. to Town of Groton.
  - d. Email from T. Orcutt re: Baddacook Well water consumption summary, dated 3/13/2015.
  - e. Email from J. Luening to Planning Board re: Open Meeting Law, dated 3/15/2015.
  - f. Email from Marielle Stone, MassDEP Central Region Deputy Director, in reply to J. Luening, dated 3/17/2015.
  - g. Email from J. Luening re: Planning Board regulation of pesticides, dated 3/18/2015.
  - h. Email from T. Orcutt to A. Prest, GLA, re: Solar Bee water circulator by Medora Corporation, dated 3/18/2015.
  - i. Email from T. Orcutt re: Code of the Town of Groton (Bylaws), Ch. 90 – Water, dated 3/19/2015.
  - j. Email comments from M. Metzger, dated 3/20/2015.
  - k. Email from J. Luening to M. Stone re: MassDEP's comments on the NOI, dated 3/22/2015.
  - l. Fax from Susan Horowitz, DVM, re: comments from risk assessment expert Susan Sundstrom, PhD.
  - m. Revised Comment Letter from MassDEP, email dated 3/24/2015.
  - n. Planning Board Memo requesting continuation of NOI public hearing, dated 3/24/2015.
  - o. Comment letter from George Barringer, PhD, dated 3/24/2015.
7. Additional information/comments received between the 3/24/2015 public hearing and the 4/14/2015 public hearing on Baddacook Pond NOI:
- a. Email from Art Prest, dated 3/25/2015, re: history of DDT ban by USEPA.
  - b. Email from Tom Orcutt, dated 3/25/2015, re: Groton Water Dept.'s Emergency Response Plan.
  - c. Email from Luening, dated 3/25/2015, re: 1898 State Board of Health Report on Baddacook Pond as secondary water source.
  - d. Email from Luening, dated 3/26/2015, re: MassDEP's revised comments.
  - e. Email from Orcutt, dated 3/26/2015, disputing Luening's interpretation of 1898 State Board of Health Report.
  - f. Email from Luening, dated 3/28/2015, re: Planning Board meeting on 4/2/15.
  - g. Email from Luening, dated 4/8/2015, with attached letters of support from:
    - i. David & Lucy Alexander, 59 Baddacook Pond Rd.
    - ii. William Strickland, 534 Martins Pond Rd.

- iii. Claire & Peter Macy, 716 Martins Pond Rd.
  - iv. Neil Murray & Georgianna Collins, Baddacook Pond Rd.
  - v. Chris & Françoise Forbes, 597 Lowell Rd.
  - vi. Groton Lakes Association (GLA), Arthur Prest, President.
  - vii. Peter & Margaret Roberts, 158 Hemlock Park Dr.
  - viii. New England Forestry Foundation (NEFF), Christopher Pryor, Director of Forest Stewardship.
  - ix. Robert Kiley, 601 Lowell Rd.
  - x. Great Ponds Advisory Committee (GPAC), Jim Luening, Chairman
  - xi. Jim Luening, 711 Martins Pond Rd.
  - h. Letter from Alex Woodle, dated 4/10/2015, in response to Barringer's comment letter of 3/24/2015.
  - i. Email from Luening, dated 4/12/2015, in response to Barringer's comment letter of 3/24/2015, including nitrate testing results and additional field studies of NMF transformation product (non-detect results).
  - j. Email from Luening, dated 4/13/2015, addressing several of BOWC's questions.
  - k. Letter from Savas Danos, dated 4/14/2015, in response to Barringer's comment letter of 3/24/2015.
8. Additional information/comments received between the 4/14/2015 public hearing and the 4/28/2015 public hearing on Baddacook Pond NOI:
- a. Memo from BOWC to Conservation Commission, dated 4/14/2015, restating its opposition to the NOI.
  - b. Letter from Thomas & Norma Hartnett in opposition to the NOI, forwarded via Email by Michelle Collette on 4/22/2015.
  - c. Email from Scott Wilson, 4/22/2015, in reply to Collette's email of same date.
  - d. Comment letter from George Barringer, dated 4/28/2015, with 8 documents attached. Received during the hearing.
  - e. Memo from BOWC to Conservation Commission, dated 4/28/2015, listing 6 Special Conditions to be included in Order of Conditions, if approved. Received during the hearing.
9. NOI, 146 Ames Road (J. Patierno), DEP #169-1124
10. Order of Conditions, 146 Ames Road (J. Patierno), DEP #169-1124
11. Meeting Minutes, 4/14/2015
12. RDA, 104 Mill Street (B. Rich)
13. RDA, 37 West Main Street (Christian Union Church)
14. Groton Wetlands Protection Bylaw Regulations, Ch. 344, Art. III
15. Proposed Field Changes, 99 Boathouse Road, DEP #169-1117
16. Baddacook Field – Draft Management Plan

**Approved 5/26/2015**