

Lost Lake Watershed Advisory Committee (LLWAC) Minutes

August 28, 2014

Present: Susan Horowitz, Tom Orcutt, Art Prest, Jay Prager, Mark Deuger

Absent: John G. Petropoulos, Michael Rosa

Meeting was called to order at 6:35 PM

Secretary Clerk: Tom Orcutt had brought a 1990s vintage cassette recorder to the meeting. A short discussion ensued as to whether recording a meeting would work since it would be difficult for the person transcribing the recording to know who was talking. It was decided that for such recordings to work a "Senior" would need to be present in order to capture what happened at the meeting. For this meeting Art Prest agreed to act as secretary/clerk.

Objectives: Susan said that Jack Petropoulos had met with some people who might come to the LLWAC meetings and make suggestions. Art Prest handed out the attached Objective/Strategies/Tactics document as a straw man for discussion. The objectives statement in this handout stated as follows: *"Research and test for the source and level of nutrients that are impacting the water quality in Lost Lake and Knops Pond and improve it if necessary."* Jay Prager suggested that we need to define what level of water quality is needed so that we can better define what the problems are that we are trying to solve. Tom Orcutt said that the Water Department has detailed standards for Municipal Drinking Water. Susan Horowitz said that Board of Health and the Nashoba Board of Health have specific standards for water from private wells. Art Prest indicated that there are many articles that have been published that have defined what good water quality in lakes should be. After much discussion Tom Orcutt made a motion that Mark Deuger, Art Prest and Jay Prager form a sub-committee to establish an objectives statement for the next LLWAC meeting. Susan Horowitz seconded the motion and all members present voted in favor of a sub-committee.

Strategies & Tactics: It was decided to defer a discussion of strategies and tactics until we reach a consensus on objectives. Tom Orcutt suggested and Mark Deuger agreed that each member of the LLWAC develop a list of issues/concerns/problems associated with the Lost Lake watershed that should be reviewed and discussed going forward. These lists of issues will be then consolidated into a framework of issues to guide our efforts in deciding what the LLWAC needs to address. This effort is in essence could be termed "Issue Identification".

Consulting Services: Art Prest handed out the resume (attached) for Ken Wagner as a possible consultant. Art also passed around a complete copy Mr. Wagner's CV (*curriculum vitae*) as well as the cover sheet for a detailed watershed study Mr. Wagner had done for another lake in Massachusetts. It was also noted that Mr. Wagner did the detailed 1989 Baystate Study of Lost Lake & Knops Pond. Some concern was expressed about the issue of Mr. Wagner's involvement

with the CEI study being a problem. Art Prest pointed out that what we might want Mr. Wagner to do is a focus on the watershed and not a critique of the CEI report.

Jay Prager motioned to approve the minutes of August 14, 2014. It was agreed that the spelling Mark Deuger's name needed to be corrected. With this correction the motion was seconded by Susan Horowitz and approved unanimously.

The next meeting is scheduled for Thursday September 11, 2014 at 6:30.

Action Items:

1. Need to get changes in the LLWAC "charge" developed at the August 14, 2014 LLWAC meeting to Mark Haddad for incorporation into the Town of Groton homepage page for the LLWAC.
2. Need to review and approve the place holder for the LLWAC Article in the Fall Town Meeting Warrant.

The meeting was adjourned at 8:42PM

Respectfully submitted by Art Prest.

Objective:

Research and test for the source and level of nutrients that are impacting the water quality in Lost Lake and Knops Pond and improve it if necessary.

Strategy:

1. Investigate the water quality throughout Lost lake & Knops Pond
2. Review and study all point and non-point discharges in the Lost Lake watershed area that might have a direct impact on Lost Lake and Knops Pond. Such studies would include storm water runoff, direct input from tributaries and ground water input.

Tactics:

1. Establish and implement a test regime for testing the water quality in specific locations throughout Lost Lake and Knops Pond.
2. Test the water quality of “shallow” private wells located around the shoreline of Lost Lake and Knops Pond. The results would provide a surrogate for ground water quality around the lake and pond.
3. If possible test septic systems within the Watershed Area to determine their impact on the water quality in Lost Lake and Knops Pond.
4. Work with various engineering firms to determine all issues impacting the Watershed.
5. Work closely with the Board of Health to address issues relating to existing septic systems & wells in the Lost Lake area (i.e. failing systems and contaminated wells).
6. Consider the institution of land-use management controls within the Watershed.
7. Work with Water Commission to understand the practicality and cost of bringing water to all homes.
8. Prepare an analysis of the availability (if any), cost and effectiveness of private septic systems that treat for nitrates, as well as the possibility for small shared septic systems.
9. Work with the Town Manager and Financial Officers of the Town to develop a funding strategy to support any proposed project to address issues within the Watershed, up to an including the installation of a Sewer System.
10. Recommend to the Board of Selectmen the best overall projects to address issues within the Watershed, whether it be land-use controls, a sewer system or other projects to improve the quality of the Watershed.

Straw Man OST Submitted by Art Prest 8/28/2014

Resume of Ken Wagner

CONTACT INFORMATION

144 Crane Hill Road, Wilbraham, MA 01095

413-219-8071 (cell/office) 413-596-3075 (home)

kjwagner@charter.net

PROFESSIONAL HISTORY

Water Resource Services LLC – current – Owner and Water Resource Manager

AECOM Corporation, 2008 – 2010 – Senior Staff Scientist, Program Manager

ENSR Consulting and Engineering, 1997-2008 – Senior Staff Scientist, Project Manager

Fugro Environmental Consultants, 1993-1997 – Staff Scientist, Project Manager, Section Head

Baystate Environmental Consultants, 1985-1993 – Water Resource Specialist, Supervisor

New Jersey Department of Environmental Protection, 1977-1981 – Water Resource Specialist

EDUCATION

Ph.D. (Natural Resources Management) Cornell University, New York, 1985

M.S. (Natural Resources Management) Cornell University, New York, 1983

Non-degree coursework (Env. Sci.) Rutgers University, New Jersey, 1979-81

B.A. (Environmental Biology) Dartmouth College, New Hampshire, 1977

PROFESSIONAL REGISTRATIONS AND AFFILIATIONS

Certified Lake Manager, NALMS, 1991-present

40-hour OSHA Health and Safety Certification, annual 8-hour refresher course

American Heart Association - CPR and First Aid Certification

National Association of Underwater Instructors SCUBA Certification

North American Lake Management Society (Served as President, Treasurer, Certification Committee Chair, Associate Journal Editor, currently Chief Editor of Lake and Reservoir Management; 2003 Secchi Disk Award winner)

Aquatic Plant Management Society (Northeast Chapter Board Member 2001-2003, Program Chair 2002-2005, Scientist of the Year Award winner 2004, Outstanding Member Award winner 2007)

American Water Works Association

American Society of Limnology and Oceanography

American Fisheries Society

Sigma Xi Research Society

TECHNICAL SPECIALTIES

Dr. Wagner has 34 years of experience in environmental management, including:

- Water Resources Assessment (Monitoring, Hydrology, Water Quality Modeling, Lake and Stream Biology, Water Supply Protection, Stormwater and Wastewater Impacts)
- Biological Sciences (Aquatic Ecology, Biological Assessment, Fisheries Biology, Limnology, Phycology, Aquatic Botany, Aquatic Invertebrate Taxonomy)
- Contaminants (Sediments, Household Chemicals, Pesticides)
- Environmental Impact Assessment (ENF/EIR/EIS Preparation, Aquatic Impacts)
- Rehabilitation Design (Watershed, In-lake, Water and Wastewater Treatment)
- Permitting (NPDES, Sec. 401/404, Wetlands Protection, Dam Safety, FERC)
- Construction Management (Supervision, Environmental Compliance Oversight)
- Expert Witness (Expert Testimony)
- Project Management (Proposals, Goals, Budgets, Schedules, Client Maintenance)