

# AGENDA

Mansfield Conservation Commission  
Wednesday, January 20, 2010  
Audrey P. Beck Building  
CONFERENCE ROOM B  
7:30 PM

1. **Call to Order**
2. **Roll Call**
3. **Opportunity for Public Comment**
4. **Minutes**
  - a. December 16, 2010
5. **New Business**
  - a. IWA Referrals: Draft Revision of the Wetlands and Watercourses Regulations (Public Hearing Schedule for 3/1/10-to be available at 1/20/10 meeting)
  - b. Joint Presentation to Town Council (Coordination meeting scheduled for 1/21/10)
  - c. USDA Animal Health Research Facility- UConn Depot Campus (see attachments)
  - d. UConn Hazardous Waste Transfer Station
  - e. Other
6. **Continuing Business**
  - a. Proposed State Streamflow Standards and Regulations (DEP Information Handout)
  - b. UConn Drainage Issues including "Master Plan" and proposed dredging at Mirror Lake (Report from Inland Wetlands Agent)
  - c. Water Supply Issues  
(Willimantic Wellfield Study Technical Advisory Committee meeting scheduled for 1/19/10)
  - d. Invasive Plantings (PZC has agreed to revise Zoning Regulations)
  - e. Protecting Mansfield's Aquifers (Conservation Commission recommended revisions to Zoning Regulations to be incorporated into Spring 2010 revision proposal)
  - f. CL&P "Interstate Reliability Project" (no new information)
  - g. Proposed UConn Composting Facility (no new information)
  - h. Ponde Place Student Housing Project (well drilling and testing has started- see 1/11/10 email attached)
  - i. Natchaug River Basin project (no new information)
  - j. Eagleville Brook Impervious Surface TMDL Project (no new information)
  - k. Conservation Commission Administrative Procedures
  - l. Other
7. **Communications**
  - a. Minutes
    - Open Space (12/15/09)
    - PZC (12/21/09; 1/4/10)
    - IWA (12/21/09; 1/4/10)
  - b. Inland Wetland Agent Monthly Activity Report
  - c. CCM Environmental Management Bulletin Re: Online planning tool for local officials
  - d. Other Correspondence
8. **Other**
9. **Future Agendas**
10. **Adjournment**

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Town of Mansfield  
**CONSERVATION COMMISSION**  
Meeting of 16 December 2009  
Conference B, Audrey P. Beck Building  
**(DRAFT) MINUTES**

*Members present:* Robert Dahn, Quentin Kessel, Scott Lehmann, John Silander. *Members absent:* Peter Drzewiecki, Joan Stevenson, Frank Trainor. *Others present:* Bryan Kielbania.

1. The meeting was **called to order** at 7:35p by Chair Quentin Kessel.
2. The draft **minutes of the 18 November 09 meeting** (as revised, 24 November 09) were approved as written.
3. **IWA referrals.** Unfortunately, no Commission member was able to participate in the IWA Field Trip earlier in the day and the only site maps available at the meeting were those in the packet.

**a. W1446 (Kielbania, Mansfield City Rd).** A single-family house is proposed near the site of the old Swanson house on Mansfield City Rd. just NW of its junction with Spring Hill Rd. At its closest point, the proposed house would be about 80' from an intermittent stream that drains ponds lying to the west. The septic leaching field, not shown on the map, would be where the Swanson house stood, according to Mr. Kielbania. After some discussion, the Commission agreed unanimously on the following comment (motion: Dahn, Silander):

In the absence of adequate maps, the Commission's ability to comment usefully on the wetland impact of the proposed house is hindered. However, it notes that (a) the house would replace one that previously existed and was closer to wetlands, (b) a stone wall between the proposed house and the stream probably provides some wetland protection, and (c) the plan appears to propose what is possible, given the conformation of this lot.

**b. W1444 (Hillel, N. Eagleville Rd).** The applicant proposes to amend W1437 so that parallel parking behind Hillel House is located on its property. Constructing a sidewalk from this parking area to Hillel would require cutting trees in – and filling a portion of – the small wetland remnant to the west. The Commission agreed unanimously on the following comment (motion: Silander, Kessel):

In the Commission's view, the wetland remnant is probably too small and degraded to retain much wetland functionality and replacing it with a rain garden (as suggested in Grant Meitzler's 12/02 memorandum to the IWA) might even improve the situation. The Commission notes that the pipe recently placed under N. Eagleville Rd is not mentioned in the application; it would appreciate information regarding its purpose.

**c. W1445 (Chernushek, Middle Tpk).** The applicant proposes to amend W1419 to permit removal of 750 cubic yards of gravel. Mining the gravel would lower the level of the horse area about 2', exposing a layer of sand that would afford better footing for horses. After reviewing the proposal, the Commission agreed (motion: Kessel, Dahn – Kessel, Lehmann, Silander voting in favor, Dahn abstaining) that:

Removal of 750 cubic yards of gravel from this site is likely to have an impact on wetlands.

**4. 2010 meeting schedule.** In 2010, the Commission will meet as usual in Conference B of the Beck Building on the third Wednesday of each month.

**5. Administrative procedures.** In response to Kessel's question to Matt Hart at the November meeting about the status of the Commission's updated administrative procedures, Mr. Hart writes that "certain sections, particularly section 2, ... might be construed to conflict with the Town Council policy on Communicating Town Positions." (letter of 15 Dec 09) This section (under "Officers & their duties") carries over old language permitting the Commission's Chair to "speak publicly or carry on correspondence in the name of the commission" on matters about which the Commission has taken a position. The policy to which Mr. Hart refers requests that "all advisory boards and staff members submit comments or concerns on issues of town-wide importance to the Town Council or Town Manager and not to State or private parties," (Paterson memo, 3 Feb 00). He suggested that the Commission either rewrite section 2 accordingly or ask the Council to reconsider its policy. Meanwhile, he requested that "official comments to any outside party" be routed through the Council.

There was general agreement that (a) the Commission should pursue a policy change and (b) direct communication with the DEP Commissioner is permitted by section 7-131(c) of the Connecticut General Statutes, regardless of any Town policy or ordinance.

**6. UConn stormwater management.** Kessel's draft comment to DEP Commissioner Marrella on UConn's stormwater management plan, e-mailed to Commission members on 15 Dec 09, was discussed at some length. In the end, Kessel agreed to reorganize the material somewhat and e-mail a revised version to Commission members for approval at the January meeting.

**7. Adjourned** at 9:45p. Next meeting: Wednesday, 20 Jan 10, 7:30p.

Scott Lehmann, Secretary, 19 December 09.

## **UConn, USDA Working to Establish Research Space on Depot Campus**

As part of a longstanding partnership, the U.S. Department of Agriculture is working with UConn to build a new academic research facility on the University's Depot campus. The structure will be used by scientists from UConn and the USDA who are developing vaccines to prevent the spread of illnesses among livestock. The plans call for the facility to be built on currently vacant land on the Depot campus, which is about three miles from the main campus in Storrs.

"This will be a mutually-beneficial, collaborative opportunity that is very much in keeping with the University's agricultural roots and the historic mission of land grant institutions like ours," said Gregory Weidemann, Dean of the College of Agriculture and Natural Resources. "A number of our faculty members are active in the field of animal vaccine research in concert with the USDA and this planned facility is an excellent way to harness and combine that expertise."

The proposed \$27 million building will be about 35,000 square feet and occupy roughly four acres of land that will be leased from the University by the USDA. The building will be constructed with federal funds. Between 15 and 30 researchers will work there developing and testing vaccines on healthy animals.

The facility is designed to house 84 large animals. The livestock – such as cows, sheep, chickens and pigs – will all be housed indoors. The animals will be cared for according to guidelines established by the federal government, UConn and the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC). Vaccines for a variety of animal diseases will be developed and tested, however, the only disease-causing organisms to be used at the facility are associated with common diseases of farm animals. The University will provide feed and remove all waste, similar to its other animal research facilities.

"This work is about finding ways to keep livestock healthy and protect them against illnesses that can affect them," said UConn Animal Science Professor Ian Hart, who is also Associate Dean for Research at the college. "This will be a modern, well-equipped space for the researchers to carry-out this critical work."

UConn and the USDA are currently in the preliminary design stage of the process. Construction will take place once full funding is obtained. It will take roughly two years to build the facility. The University looked at several possible sites and decided that the Depot campus location best met its needs.

It will be one of 11 similar laboratories in the nation, many also located on college campuses, including Penn State, the University of Georgia and Iowa State.

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*Presentation Slides from 1/12/10 Town/University Relations Comm. Meeting*

# USDA ANIMAL HEALTH RESEARCH CENTER

## A USDA – UConn Partnership



University of  
Connecticut

College of Agriculture and Natural Resources

# BACKGROUND

- Long-standing USDA-UConn research collaboration on the development of vaccines to improve animal health
- USDA space for vaccine research is limited and widely dispersed nationally
- A new research laboratory is needed to serve as a focal point for vaccine research
- Desire to be co-located on a university campus where research collaborations already exist
- Will join 11 existing laboratories across the nation working on animal health – most located on university campuses



University of  
Connecticut

College of Agriculture and Natural Resources

# BACKGROUND

- Discussions about locating the laboratory at UConn began in 2006
- Sufficient federal funds secured to begin planning in 2007
- Planning document and site selection took place in 2009
- USDA facility on leased UConn land
- Construction will take place only if all necessary federal funding secured (\$27 million)



# PROCESS

- Series of meetings in 2009 to discuss design, site selection, animal care, waste disposal, and services
- Several sites considered
- Depot campus selected for available space, utilities, bus service, parking and proximity to campus



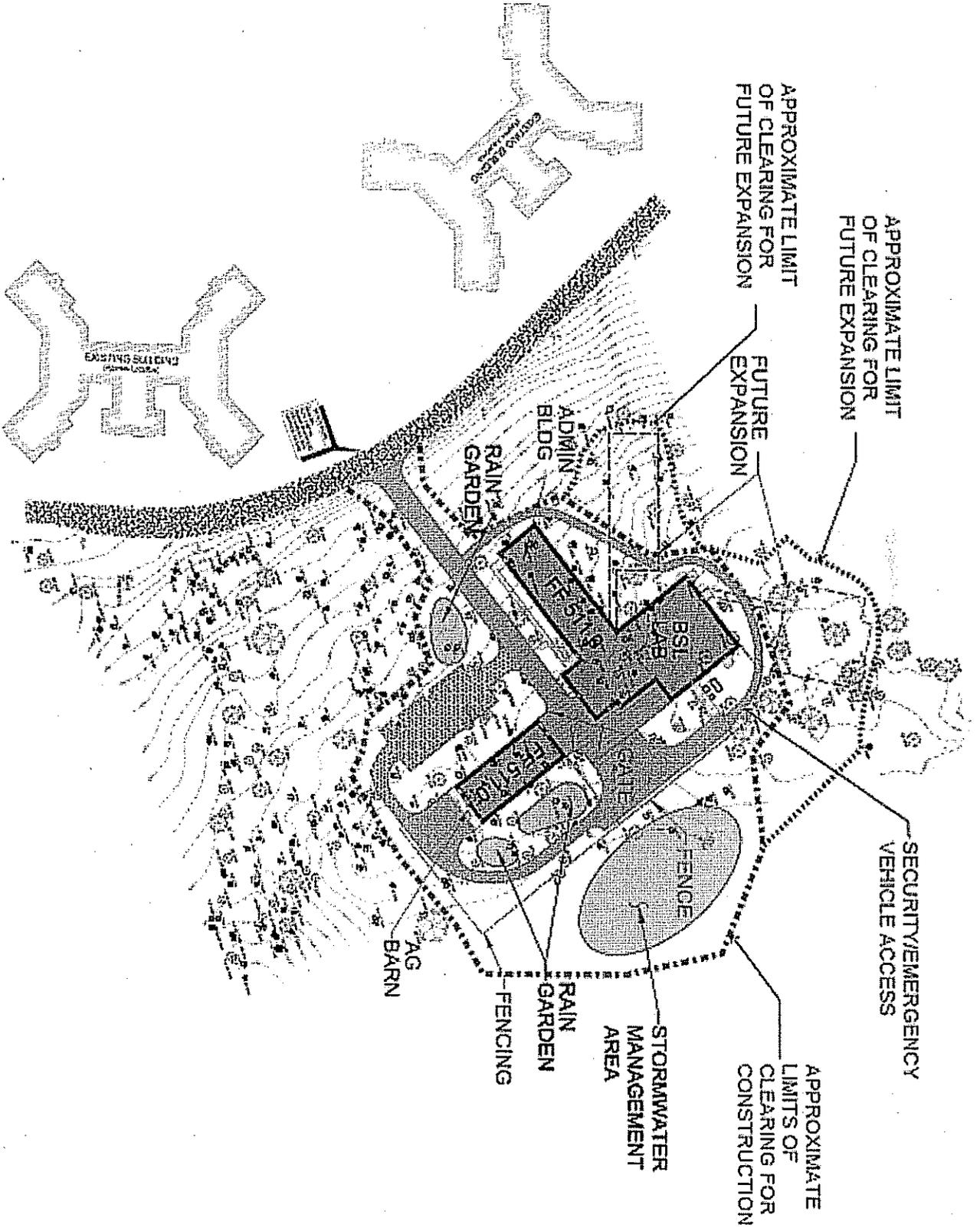
University of  
Connecticut

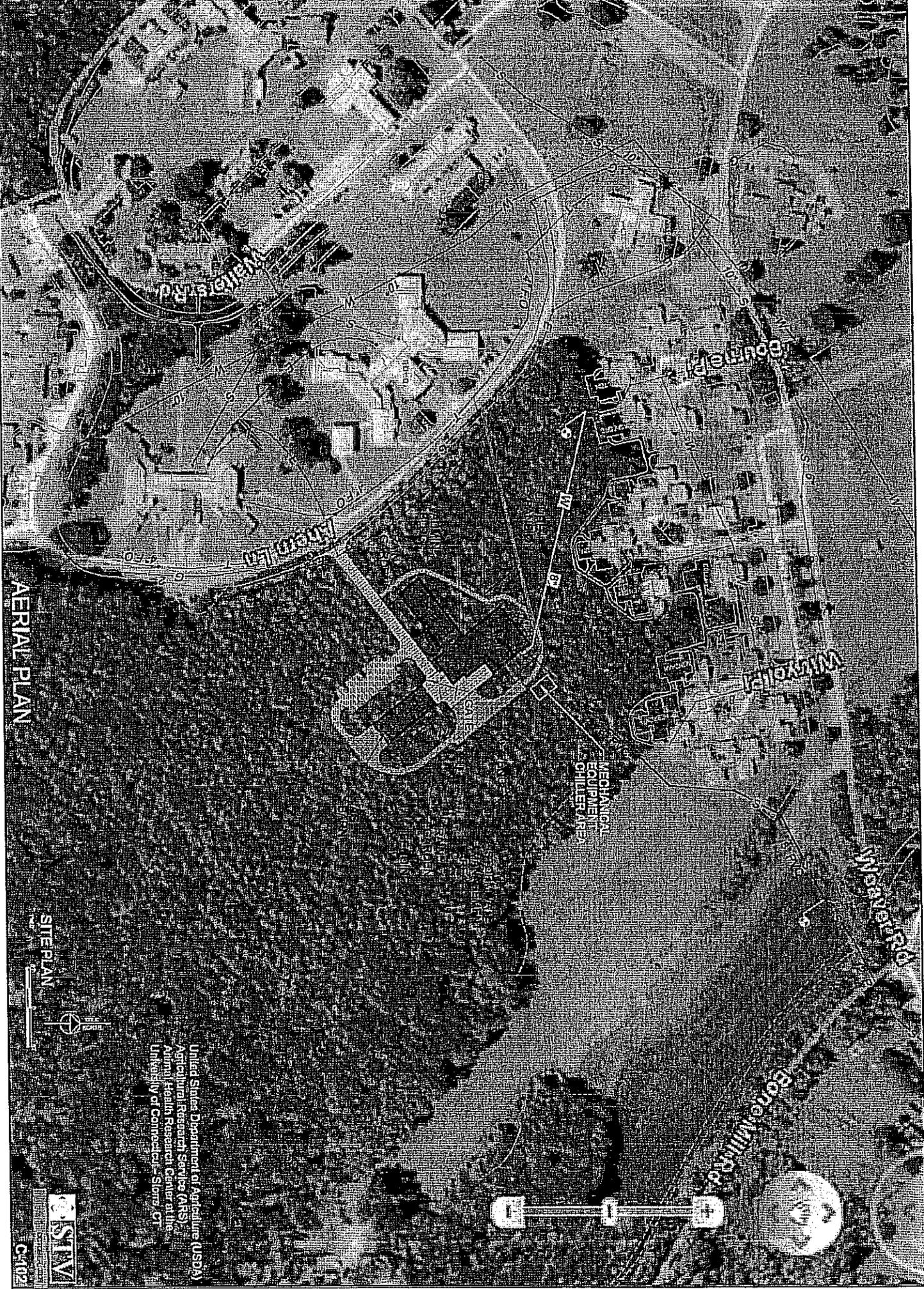
College of Agriculture and Natural Resources

# FACILITY

- 35,000 GSF
- Office and laboratory space for 3 senior scientists plus up to 15 support staff and post-docs
- Space for UConn scientists
- Animal study area and holding barn for up to 84 farm animals
- No external housing of animals







AERIAL PLAN

SITE PLAN



United States Department of Agriculture (USDA)  
 Agricultural Research Service (ARS)  
 Animal Health Research Center at the  
 University of Connecticut - Storrs, CT



C-1102

# BIOLOGICAL SAFETY

- Focus is on how healthy animals react to experimental vaccines
- All research is limited to low level biological safety (BSL2)
- No pathogenic organisms above BSL2 allowed at the site
- No diseased animals will be brought to the site
- Research must comply with UConn approval process for biological safety and animal care



# BIOLOGICAL SAFETY (BSL2)

- Limited to agents of moderate risk and commonly found
- Controlled access and separation from public spaces
- No air recirculation to non-lab areas
- Appropriate decontamination of any infectious materials
- Training requirements



# ENVIRONMENTAL CONSIDERATIONS

- UConn will provide feed and remove animal waste similar to other UConn facilities
- Animal waste will be used as fertilizer, composted, or disposed of off site based on need and environmental regulations
- Any contaminated waste will be treated prior to disposal



# BENEFITS TO UCONN

- Additional research capacity funded through the federal government
- Enhances an existing research relationship with USDA
- Creating a regional focus in animal health that can attract additional high tech jobs
- Potential to attract additional research funding in animal health
- Access to animal research space for UConn faculty



University of  
Connecticut

College of Agriculture and Natural Resources

# BENEFITS TO USDA

- Address space limitations in existing facilities
- Create a national focus for animal vaccine research
- Take advantage of UConn expertise in animal health
- Enhance existing research collaboration with Center of Excellence for Vaccine Research



University of  
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# QUESTIONS?



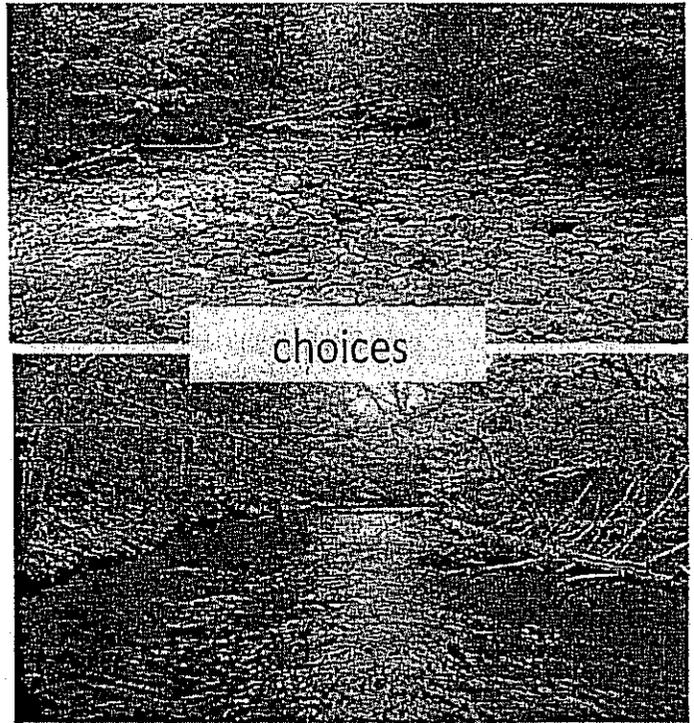
University of  
Connecticut

College of Agriculture and Natural Resources

# *Stream flow:*

## Balancing Water Use for Future Generations

The Connecticut Department of Environmental Protection (DEP) is proposing revisions to the Stream Flow Standards in response to legislation enacted in 2005. This statute directed DEP to develop regulations that would expand the coverage of the stream flow standards to include all rivers and streams rather than only those stocked with fish as was the case previously. The statute further directed DEP to develop standards that balance the needs of humans to use water for drinking, washing, fire protection, irrigation, manufacturing, and recreation with the needs of fish and wildlife that also depend on the availability of water to sustain healthy, natural communities.



### How does the new Stream Flow Regulation affect me?

If you appreciate Connecticut's diverse natural wildlife and enjoy taking advantage of the many opportunities for water-based recreation provided in our State, the revised Stream Flow Regulation provides enhanced protection for those activities. The regulations also establish a strong foundation for maintaining existing uses and insuring that adequate water supplies are available today and for future generations.

In the event that a severe drought does occur, ideally all water users will reduce their demand so that both critical human and ecological needs can be met. Demand management by residential water consumers typically involves such simple actions such as limiting lawn watering, car washing, or implementing other measures to conserve water until conditions improve. Wasting water through carelessness or inefficient water use practices however is never acceptable, even during times of relative abundance. The proposed stream flow regulation is designed to enhance the State's ability to manage our water resources efficiently and encourage citizens to participate in the stewardship of what is arguably our most valuable natural resource.

If you are serviced by a public or private water utility, you may experience a modest increase in the cost of water to offset the costs of maintaining water supply infrastructure or to develop new supplies that will insure water availability.

**Summary** The Stream Flow Standards are most easily understood as requiring two separate but related activities. First, the proposed regulation requires that all rivers and streams be Classified into one of four Classes. Each Class represents a different balancing of human use and ecological health priorities. The Classification adopted for a stream informs future decisions regarding how that specific resource will be managed. The proposed regulation establishes a public process by which this Classification is to be done and identifies the key considerations for determining what Class is appropriate for specific waters. Once a stream has been classified, a series of requirements are imposed on the operators of dams that regulate stream flow, those who divert from a stream or river, or those that pump significant quantities of groundwater from aquifers that sustain the flow of streams and rivers. These requirements are phased in over time to allow current users to adjust their operations or facilities to comply with the new regulations without unduly disrupting the supply of water available for human use. The proposed regulation also provides the option of adopting a Flow Management Plan for a watershed as an alternative to complying with the specific requirements (presumptive standards) relating to dam releases, or maximum stream depletion specified in the regulation.

**Stakeholder Involvement** A Commissioner's Advisory Group met numerous times over the course of three and a half years to provide DEP with a broad perspective on the potential impact of the revised regulations on various stakeholders. DEP consulted with other State agencies, municipalities, water utilities, scientists, and environmental and recreational advocacy organizations. In addition, a Science and Technical Workgroup was formed consisting of recognized experts from various disciplines to insure that the regulations would be based on the best available science and a Policy and Implementation Workgroup was also convened to evaluate various policy options relating to implementing the revised regulations.

### **Balancing Human and Ecological Needs Based Upon Best Available Science**

The proposed stream flow standards incorporate the concept of balancing human and ecological needs for water by establishing different flow standards for each of four categories or classes of waters.

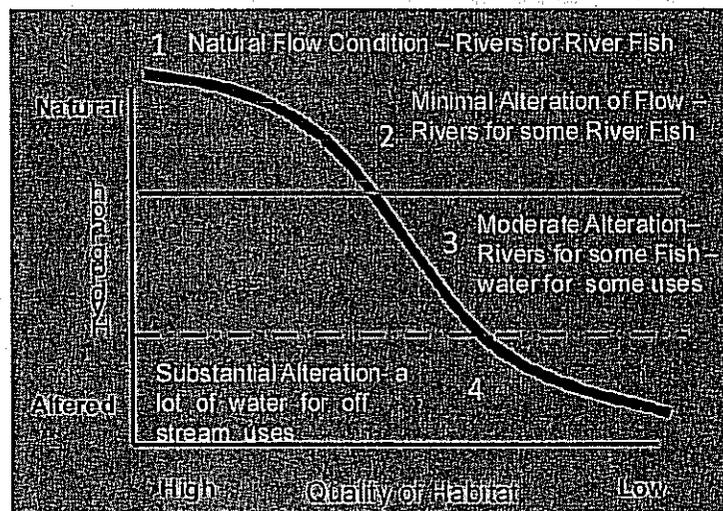
**Class 1** waters would be considered "natural," characterized as a resource having little current development in the watershed and having not been affected by the removal of water for human uses.

**Class 2** waters would be considered "near natural," sharing many characteristics with Class 1 systems. The flow standards for this class, however, would allow for some level of human alteration.

**Class 3** waters would be defined as "working rivers," where human uses may have a significant influence on stream flow patterns. These rivers and streams are expected to have adequate water resources available to support viable aquatic communities. Some changes in use may be necessary to support flow patterns needed to ensure these conditions.

**Class 4** waters would be characterized as systems where past practices have resulted in a significant deviation from the natural stream flow pattern and restoring these rivers and streams to a more natural condition would cause an extreme economic hardship.

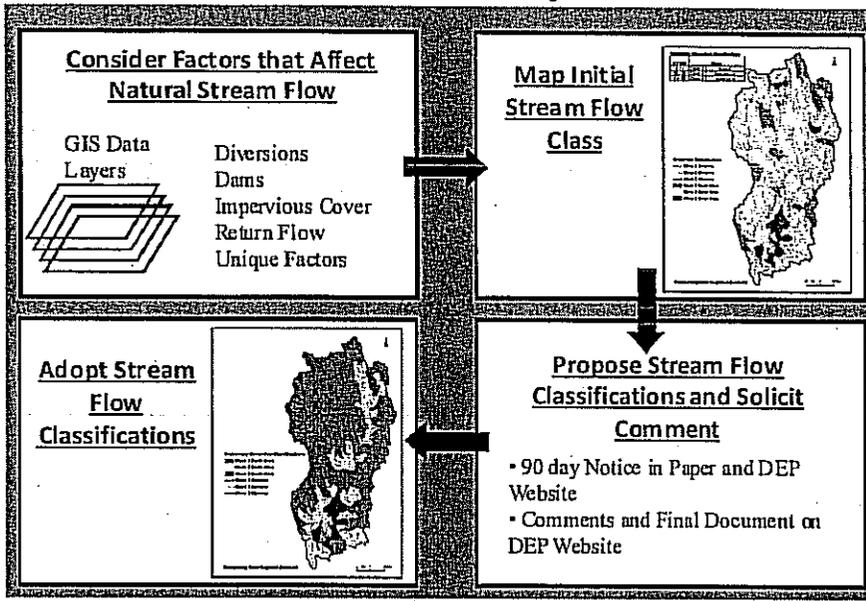
### **Narrative Stream Flow Standards**



In Class 1 waters, priority would be given to protecting the ecological health of a river or stream. In Class 4 waters, support of human activities would be weighted most heavily. In Class 2 and Class 3 waters, permitted activities strike a balance between ecological and human needs. We anticipate that most existing consumptive diversions will be in Class 3 and Class 4 waters.

Scientific literature supports that alteration of the natural flow regime impacts stream biota. As a result, the flow standards for each Class are based on maintaining to various degrees the natural variation in flow expected in Connecticut given our seasonal climate and rainfall patterns.

## Procedures to Classify Waters



**Classifying Stream Segments** The proposed regulation sets out a process by which DEP will propose a Class assignment for each river and stream based on an evaluation of factors that have relevance with respect to the balancing of human and ecological values and uses. Once a preliminary map has been completed depicting the proposed classification of all streams and rivers in a Major Basin, the DEP will initiate a public review process designed to allow citizens and water users to comment and suggest changes in class assignments. DEP anticipates that it will take up to five years to complete the process of

classification by classifying one of the five major river basins each year. The proposed stream flow regulation specifies a process that allows a classification to be changed in the future if conditions warrant.

### Stream Flow Standards

The proposed Stream Flow Regulation also establishes a numeric criterion for each Class of water that differs with respect to the degree of deviation from a natural stream flow condition. Criteria are presented in two formats, a Minimum Flow Release Rule for waters where in-stream flow is determined by releases of water from a dam control structure, and a Maximum Flow Reduction Rule for streams where flow is influenced primarily by the timing and amount of water withdrawn from the groundwater that feeds the stream.

### Phased Implementation of Regulatory Requirements

Phasing of the regulatory requirements over more than 10 years as they apply to water supply utilities is designed to achieve the environmental goals established in PA 05-142 without causing undue disruption of the State's existing water supplies and water use practices. Phasing of regulatory requirements provides the opportunity to mitigate the impact of the regulation on water utilities and consumers by providing adequate time for:

- 1) implementing effective conservation and demand management practices;
- 2) undertaking water supply planning to design, finance and construct any water supply infrastructure necessary to make required releases, to balance multiple sources of water within a water supply system to insure that all existing sources are being used optimally, and to develop a watershed plan that optimizes yield for human use while continuing to meet the narrative goals; and
- 3) establishing system interconnects to allow for movement of water from "water rich" to "water poor" areas.

### Flow Management Plans

The option to manage stream flow within a river system under the terms of a flow management plan provides an opportunity to maximize yield for human use while continuing to meet ecological needs. Such a plan might impose different requirements on dam operators or groundwater withdrawals keyed to the unique characteristics of the watershed. This can be achieved by tailoring flow management to the specific characteristics of the system. Flow management plans for the Mill River, Shepaug River, and Fenton River are already in place.

## Exemptions and Off-Ramps

There are numerous exemptions proposed in the regulations. For instance, diversions of water from portions of a river or stream system that are tidally influenced are not covered by the proposed stream flow regulation. Additionally, some specific types of activities or water uses are exempted from requirements to operate in accordance with the Stream Flow Standards. Typically, these activities involve intermittent, short-term use such as to provide emergency fire or flood protection or to allow maintenance and repair to a dam or seasonal drawdown of a recreational lake. Small water users such as private homeowner wells and others that pump less than 50,000 gallons per day are also exempt. Water users operating in compliance with a current DEP permit must continue to comply with that permit but are otherwise not required to make any changes to operations in order to comply with the revised stream flow regulation. Dams that are regulated under federal law by the Federal Energy Regulatory Commission are not subject to additional release requirements beyond those incorporated into their federal permit. In addition special release rules apply to a limited number of dams that meet specific conditions.

## Drought Triggers and Variances

The proposed Stream Flow Regulations allow water utilities to reduce the amount of water they release during periods when there is an increased risk that a drought is imminent and water supplies are in danger of becoming depleted. The Stream Flow Regulations also allow water utilities to eliminate all releases during periods when a water utility is in a drought emergency condition.

In addition, there is a variance procedure that allows the DEP Commissioner to issue a variance to reduce the minimum release or to increase the maximum alteration allowed to a river segment.

## To Find Out More:

### Public Process

#### Informational Sessions

DEP Phoenix Auditorium, 5th Floor  
79 Elm Street, Hartford, CT  
-November 9, 2009 - 9:00 -11:30 am  
-December 21, 2009 - 1:30-4:00 pm

#### Hearing

DEP Phoenix Auditorium, 5th Floor, 79 Elm  
Street, Hartford, CT  
-January 21, 2010 -9:00 am

### Public Comment Period

Anyone seeking to comment on the proposed regulations will need to submit in writing or orally at the public hearing.

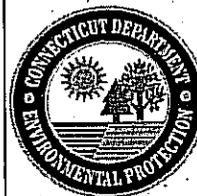
Written comments to:

Paul E. Stacey

Department of Environmental Protection  
Bureau of Water Protection and Land Reuse  
Planning & Standards Division  
79 Elm Street  
Hartford, CT, 06106-5127

## Stream Flow Exemptions:

- Federal Energy Regulatory Commission authorized hydroelectric power generation;
- Temporary inspection, maintenance, repair or modification to a dam or other structure;
- Fire emergency purposes;
- Government-maintained flood control dams;
- Stormwater detention basins;
- Diversions from tidally-influenced rivers;
- Diversions of less than 50,000 gpd;
- Testing (production capability or water quality);
- Thermal/cooling water discharges;
- Diversions pursuant to pollution abatement orders;
- Temporary or seasonal lake draw-downs with conditions;
- CONNDOT activities incidental to highway construction;
- Diversions pursuant to a current diversion permit;
- Diversion subject to certain flow management plans or under a flow management compact;
- Run-of-river dams managed in accordance with regulation;
- Dams that impound a drainage area of less than three square miles and make minimum releases;
- Dams that make minimum releases for one mile or less before discharging into another impoundment, provided the most downstream dam meets the release requirements.



State of Connecticut  
Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Amey W. Marrella, Commissioner

Memorandum:

January 7, 2010

To: Inland Wetland Agency  
From: Grant Meitzler, Inland Wetland Agent  
Re: Informational - UConn Mirror Lake Dredging

Having now gone through the complete application package, I can pass along the following comments:

I. I see several separate parts to this project:

A. dredging of Mirror Lake to increase average depth of the lake from 2.8' to 5.0'.

The deepest part of the lake is now 5.1' deep. Area of the lake is 4.7 acres.

B. spillway repairs:

Surface concrete deterioration, joint cracking repairs, replacement of missing sections of concrete.

A coffer dam is to be placed some 50' upstream (into the lake) to isolate the body of the pond from the repair work. There is a requirement that this be done before dredging is done within 50' of the coffer dam.

C. spillway outlet improvements:

1. Addition of a V notched weir to the spillway. The information notes this addition conforms with the long term UConn Drainage Master plan for hydraulic flow. During low flow periods the present lake level will be maintained - at times of high flow the lake will store an additional foot of water depth moderating the longer term outflow to Roberts Brook.

2. extending the outfall with a new concrete apron extending approximately 15' beyond the present spillway end.

3. establishing a rip-rap channel extending another 50' along Roberts Brook.

D. dredging operation:

1. constructing dewatering areas:

Four areas are to be constructed. Each will be protected with an impervious sheet over the bottom and a protective hay bale and silt fence barrier downhill. Three will be 100'x 250' and one will be 100'x 320'. Two will be near Rte 195 opposite Willowbrook Rd, and two will be between Mirror Lake and Mansfield Rd near Rte 195. These are paired so they can be alternated - when one area fills it can be rested and the other area used.

These areas are to be restored when the work is done.

2. removing material from the pond:

The indication is material will be pumped to dewatering areas, and from the dewatering areas water will be returned to the lake. The dewatering includes the use of lengthy filter fabric tubes to separate water from the dredged material. For the dredged material a proportion of 20% solids and 80% water is indicated.

3. pumping to dewatering areas, and returning separated water to the lake.

4. trucking dewatered material to a licensed landfill

A 6' high chain link fence is to surround the entire area. Access to the work area is to be through two temporary entrances onto Route 195 and one drive onto Mansfield Road.

Stone trucking pads extending 50' into the site are indicated for each entrance.

E. Installation of three aeration fountains.

II. Regarding wildlife/fisheries protective measures, information on the varieties of wildlife present is included but I did not find comment on protective measures to be taken or comment that would support the lack of such measures.

I subsequently spoke with Nathan Arai PE, Project Engineer for BEC Environmental Consultants who prepared this application, specifically questioning as to whether addressing this would happen during the DEP review process, or whether the nature of the dredging process itself is sufficient to provide the kind of protection needed. The conversation was an interesting one. He indicated that the DEP Fisheries comments in the past for the dredging process proposed have been very minor. They have done at least two similar jobs in the past for the DEP with same methods. The critical item apparently is the maintenance of the lake levels such that fish can easily move away from the area of disturbance as they wish. He further indicated that in one instance they had actually found that the fish moved towards the disturbance rather than away, which was assumed to be due to freshly exposed nutrients.

III. Work is expected to start this Spring and run to October 2010.

Portions of Submitted  
Application materials

## Mirror Lake Dredging Application Table of Contents

Permit Application Transmittal Form	5 Pages
Permit Application Form - Inland Wetlands & Watercourses, Dam Construction, and Flood Management Certification	6 Pages
Attachment A – Executive Summary	3 Pages
Attachment B – Site Locus Map	1 Page
Attachment C – Documentation Form for Inland Wetlands and Watercourses Permit	6 Pages
Attachment C8 - Disposal Plan	1 Page
Attachment C9a – Letter to Water Company	1 Page
Attachment E – Documentation Form for a Dam Construction Permit Executive Summary – Mirror Lake Dam Repairs and Modifications Dam Safety Calculations - Mirror Lake Dam; Lenard Engineering, Inc., Feb 2009 Concrete and Concrete Repair Specifications, BEC (draft)	3 Pages
Attachment E13-1 - Mirror Lake Dam – Operations & Maintenance Plan	20 Pages
Attachment E13-2 - Mirror Lake Dam – Emergency Operations Plan	1 Page
Attachment F – Documentation Form for Flood Management Certification	1 Page
Attachment G – Plan Sheets and Drawings Full-sized drawings (24" x 36") are separately attached to Application Reduced-scale prints are bound within Application, for ease of reference	8 Pages
Attachment H – Engineering Documentation	23 Pages
Part 1: Engineering Report Checklist (DEP-IWRD-APP-105A)	
Part 2: Hydrologic and Hydraulic Consistency Worksheet (DEP-IWRD-APP- 105B)	+ Dam Safety Calcs
Section I Floodplain Management	
Section II Stormwater Management	
Mirror Lake Dredging - Water Handling Plan	+ DRAFT
Dam Safety Calculations – Mirror Lake Dam; Lenard Engineering, Inc., Dated: February, 2009	Specifications
DRAFT Technical Specifications – Dam Concrete Work	
Incorporated by Reference:	
Campuswide Drainage Master Plan, Volumes I, II, III, & IV (CDMP) Lenard Engineering, Inc., Dated: April, 2006	
Dredge Feasibility Study for Mirror Lake and Swan Lake (DFS) Milone & MacBroom , Inc., Dated: March 13, 2009 (Note: includes dam inspection, dated December 3, 2008)	
Technical Memorandum – Supplemental Sediment Sampling, Mirror Lake (TM) Milone & MacBroom , Inc., Dated: July 2, 2009	
Attachment I – Flood Contingency Plan	1 Page

**Mirror Lake Dredging**  
**Application Table of Contents (cont'd)**

Attachment J –	Soil Scientist Report	4 Pages
Attachment K –	Environmental Report	10 Pages
Attachment L –	Mitigation Report	2 Pages
Attachment M –	Alternatives Assessment	3 Pages
Attachment N –	Applicant Compliance Information Form	2 Pages
Attachment O –	Applicant Background	1 Page
Attachment Q –	Other Information	4 Pages
	October 15, 2009 -Letter from U.S. Army Corps of Engineers, indicating “no permit required” for the hydraulic dredging of Mirror Lake	

# Attachment A: Executive Summary

## Inland Wetlands and Watercourses

Applicant: University of Connecticut  
Project: Mirror Lake Dredging  
Storrs Campus  
Storrs Road (Route 195)  
Storrs, Connecticut

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This project consists of the maintenance dredging of and general enhancements to Mirror Lake, a 4.7-acre man-made impoundment on the University of Connecticut (the University) campus, in Storrs. Mirror Lake is a highly visible campus amenity created in 1922 by the construction of an earthen embankment dam across Roberts Brook, between Mansfield Road and Route 195. The dam includes a cement concrete masonry uncontrolled overflow spillway as the primary outlet from the lake.

Over the years, the upper headwaters of Roberts Brook have been either channelized or culverted. A predominance of Mirror Lake's hydrology now consists of stormwater runoff from impervious surfaces including roads, parking lots, walkways, and rooftops within the 164±acre drainage area contributing to the lake. There are currently eight (8) stormwater outfalls which discharge directly to Mirror Lake. Other than direct runoff from the expansive maintained lawn areas immediately surrounding Mirror Lake, these storm drains provide the only inflows to the lake. The lake's hydrology is characterized by brief periods of high incoming flow rates separated by intervals of relatively low base flow. Water quality within Mirror Lake is typically poor. The lake experiences periods of low dissolved oxygen and high levels of the nutrients phosphorous and nitrogen. Sedimentation within Mirror Lake has been a continual issue, and the lake has received numerous maintenance dredging efforts over its history, but not since the early 1970s. The lake currently is very shallow and has a maximum depth of approximately five feet and an average depth of about 2.8 feet. Sediment oxygen demand and re-suspension have been cited as significant factors in the poor existing water quality and frequent algal blooms within Mirror Lake.

The accumulated sediments within Mirror Lake have recently been sampled and tested for physical and chemical attributes. The sediments are composed of various combinations of gravel, sand, silt, and clay. The more coarse sediments were found in the lower sediment horizons and in the areas immediately adjacent to the numerous storm drain outlets to the lake. The finer grained sediments were generally found in the upper horizons of the sediment. Some sediment samples contained contaminant levels in excess of several remediation standards. Specifically, various levels of arsenic, leachable nickel, polynuclear aromatic hydrocarbons (PAHs), and extractable total petroleum hydrocarbons (ETPHs) were found in some of the sediment samples at levels exceeding regulatory thresholds. To eliminate any potential concern over possible beneficial reuse of the sediments, the University has elected to dispose of the dredged and dewatered sediments at a licensed solid waste facility.

The proposed project will remove approximately 17,100 cubic yards of accumulated sediments from within Mirror Lake. Sediments will be removed down to the original, firm, mineral substrate using a hydraulic cutterhead dredge. All sediment removal will be conducted with the water level in Mirror Lake remaining at normal levels and controlled by the lake's primary overflow spillway. The dredged sediments will be pumped as a sediment-water slurry to upland dewatering areas, for separation of the dredged materials from the water using mechanical dewatering methods such as belt filter presses, screens, and cyclones or geotextile filter fabric "geotubes", positioned within the upland dewatering areas. A polymer flocculent will be injected into the slurry to promote rapid coagulation of fine particles and resultant separation within the dewatering apparatus. The free, clarified water then will be collected and flow back into the lake by gravity or by pumping, depending on the location of the dredged sediment dewatering area, thus completing a circular, continual sediment removal and water treatment process. After dredging, the average depth of Mirror Lake will increase from 2.8 feet to 5.0 feet, and the normal water volume will increase from 13.0 acre-feet to 23.6 acre-feet

Proposed modifications to Mirror Lake's primary spillway will include the construction of a V-notch weir addition, to promote the detention of stormwater runoff within the lake and provide for water quality improvements and the reduction of stream bank erosion in downstream areas. The purpose and need of this weir addition were identified in the University's 2006 Campuswide Drainage Master Plan, which has been separately submitted to CTDEP as an attachment to the University's application for Flood Management Certification. A 2008 engineering inspection of the Mirror Lake dam identified deficiencies in the concrete spillway structure and its associated retaining walls. Specifically, several cracks in the concrete require repair and sealing, and areas of spalling must be refurbished. The concrete apron immediately downstream of the overflow spillway is in need of replacement and requires a suitable erosion control device in the channel immediately downstream of the apron. A February 2009 study regarding dam stability has recommended the construction of a downstream toe drain to alleviate potential seepage concerns. Correction of the identified dam deficiencies, construction of the toe drain, and construction of the V-notch weir addition are incorporated into the Mirror Lake Dredging as a matter of convenience and logical timing.

The proposed Mirror Lake Dredging also includes the installation of three (3) aerating water fountains, to be positioned throughout Mirror Lake and which will provide an aesthetic enhancement and substantially increase the levels of dissolved oxygen within the lake. Lastly, the new electrical distribution system for the aerators will be extended to the small island located near the center of Mirror Lake for possible future landscape lighting fixtures that could be installed in this location.

This application seeks to provide permit coverage for the following activities, which constitute the Mirror Lake Dredging:

- 1.) Dredging of 17,100 cubic yards of accumulated sediments from within Mirror Lake, including sediment disposal at a licensed solid waste facility;
- 2.) Modification of the Mirror Lake primary spillway by the addition of a V-notch weir, in accordance with the recommendations of the 2006 Campuswide Drainage Master Plan;

- 3.) Minor repairs to the Mirror Lake Dam, pursuant to the 2008 dam inspection;
- 4.) Installation of a toe drain along the downstream bottom of the earthen embankment dam, in accordance with the February, 2009, recommendations; and
- 5.) Installation of three (3) aerating fountains within Mirror Lake, including associated electric provisions and appurtenances, and extension of electrical power to the small island in the center of Mirror Lake.

Construction is anticipated to commence in the spring of 2010. The anticipated construction sequence is as follows:

- 1.) Install erosion and sedimentation controls around all work areas, and turbidity curtain / debris barrier at Mirror Lake outlet spillway;
- 2.) Establish construction access and egress roads (May require installation of temporary gravel drives and curb protection);
- 3.) Prepare the upland dredged sediment dewatering areas (Grading and deposition of borrow material to create level surfaces, establishment of return flow provisions);
- 4.) Dredge Mirror Lake and simultaneously dewater sediment at the upland dewatering areas;
- 5.) Test sediment for disposal facility permit requirement parameters (physical and chemical constituents);
- 6.) Load dewatered sediments into trucks for shipment off-site to permitted solid waste disposal facility;
- 7.) Dismantle sediment dewatering areas;
- 8.) Restore dewatering areas to pre-existing conditions (re-grade and re-seed to establish lawn);
- 9.) Install lake aerators, install electric service to island; and
- 10.) Make repairs and modifications to the dam and spillway structure.

Improvements to the spillway apron and installation of the immediately-downgradient stilling basin would likely occur simultaneously during steps 3-9. Note that steps 9 and 10 will require minor and temporary lowering of the lake's water level, to enable installation of electrical conduit at the water's edge and for cementitious coating of the concrete spillway. Final planting and reseed activities in step 8 will need to occur during the growing season and thus could occur the following spring depending on the completion date of the previous steps.

## Executive Summary

### Mirror Lake Dam Repairs and Modifications

Mirror Lake Dam on the UConn Campus in Storrs is a 390± long earthen embankment dam with cement concrete overflow spillway. The dam has a maximum structural height of about 11.7 feet. The dam was constructed in 1922 to create the highly-visible 4.7 acre Mirror Lake, a significant campus landscape feature. The 164-acre drainage area to the lake and dam encompasses a large portion of the south end of the campus, which has been developed with a significant percentage of impervious coverage. The primary spillway is a 12-foot wide reinforced concrete ogee spillway (uncontrolled) that discharges onto a concrete apron and thence to Roberts Brook, a tributary to the Fenton River. A gate-controlled low-level pond drain is at the spillway's right abutment and is integral to the spillway structure.

The 2006 UConn Campuswide Drainage Master Plan by Lenard Engineering, Inc., recommended augmenting the primary spillway with a V-notched weir to better retain stormwater discharges to the lake and thus reduce the downstream peak discharges to Roberts Brook. Malone & McBroom, Inc., prepared a Mirror Lake Dam Inspection Report in December 2008, in which they recommended minor repairs to the dam. Lenard also submitted Dam Safety Calculations in February, 2009, concluding that safety factors are adequate if the spillway is modified with the V-notch weir, and suggesting the installation of a toe drain along the right downstream toe of slope.

Baystate Environmental Consultants, Inc. was contracted by UConn to design and implement improvements to Mirror Lake and its dam. Specific project components related to the dam include:

1. Installation of a V-notch weir plate across the ogee spillway. This will not cause any change to the normal water surface elevation of the lake;
2. Replacement of the concrete apron immediately downstream of the spillway;
3. Installation of a downstream riprapped stilling basin / energy dissipater;
4. Repair injection of existing cracks in concrete components;
5. Repair of spalled areas in concrete components;
6. Application of a protective cementitious coating to all exposed concrete surfaces;
7. Installation of a downstream toe drain along the right embankment; and
8. Testing and possible repairs to the existing 12-inch low-level outlet gate valve.

All repairs will be constructed as part of the Mirror Lake Improvements Project.



## Attachment C: Documentation Form for the Following Permits:

- Inland Wetlands and Watercourses Permit (CGS Section 22a-39)
- Stream Channel Encroachment Line Permit (CGS Section 22a-342 through 22a-349)
- 401 Water Quality Certification Inland Waters (33 U.S.C. 1341)

All applicants should review the application instructions (DEP-IWRD-INST-100). Applicants for an Inland Wetlands and Watercourses Permit should review CGS Sections 22a-36 through 22a-45 and RCSA Sections 22a-39-1 through 22a-39-15. Applicants for a Stream Channel Encroachment Line Permit should review CGS Section 22a-342. Applicants for 401 Water Quality Certification should review Section 401 of the Federal Water Pollution Control Act (33 U.S.C. 1341) and Connecticut's Water Quality Standards.

If more space is needed for your response, duplicate the form and attach additional pages to the form. If additional pages are attached, they should be numbered and titled to correspond to the specific number and title of the request for information on the application form.

1. Applicant Name: **University of Connecticut**  
(as indicated on the *Permit Application Transmittal Form*)

2. Check the permit(s) being requested in this application (check all that apply):

- Inland Wetlands & Watercourses  
 Stream Channel Encroachment Lines  
 Water Quality Certification

3. If applying for a SCEL permit, indicate the SCEL Map number(s) wherein the proposed activity will take place, the property identifier and the date of the map referenced:

SCEL Map number(s)

Property Identifier:

Date of the map referenced:

4. Name of wetland(s) and watercourse(s) involved:

**Mirror Lake and unnamed tributary (a.k.a "Roberts Brook") to the Fenton River**

Attachment C: Documentation Form (continued)

5. Describe the purpose and need for the proposed project.

This project consists of the maintenance dredging of and general enhancements to Mirror Lake, a 4.7-acre man-made impoundment on the University of Connecticut (the University) campus, in Storrs. The purpose of the project is to improve conditions at Mirror Lake and its associated dam and outlet structure.

Maintenance dredging of the lake is required to address the accumulation of sediment. There are currently eight (8) stormwater outfalls which discharge directly to Mirror Lake. Other than direct runoff from the expansive maintained lawn areas immediately surrounding Mirror Lake, these storm drains provide the only inflows to the lake. The lake's hydrology is characterized by brief periods of high incoming flow rates separated by intervals of relatively low baseflow. Water quality within Mirror Lake is typically poor. The lake experiences periods of low dissolved oxygen and high levels of the nutrients phosphorous and nitrogen. Sedimentation within Mirror Lake has been a continual issue, and the lake has received numerous maintenance dredging efforts over its history. The lake currently is very shallow and has a maximum depth of approximately 5 feet and an average depth of about 2.8 feet. Sediment oxygen demand and re-suspension have been cited as significant factors in the poor existing water quality and frequent algal blooms within Mirror Lake.

Proposed modifications to Mirror Lake's primary spillway will include the construction of a V-notch weir addition, to promote the detention of stormwater runoff within the pond and provide for water quality improvements and the reduction of stream bank erosion in downstream areas. The purpose and need of this weir addition were identified in the University's 2006 Campuswide Drainage Master Plan, which has been separately submitted to CTDEP as an attachment to the University's application for Flood Management Certification. A 2008 engineering inspection of the Mirror Lake dam identified deficiencies in the concrete spillway structure and its associated retaining walls. Specifically, several cracks in the concrete require repair and sealing, and areas of spalling must be refurbished. The concrete apron immediately downstream of the overflow spillway is in need of replacement and requires a suitable erosion control device in the channel immediately downstream of the apron. A February 2009 study regarding dam stability has recommended the construction of a downstream toe drain to alleviate potential seepage concerns. Correction of the identified dam deficiencies, construction of the toe drain, and construction of the V-notch weir addition are incorporated into the Mirror Lake Improvements Project as a matter of convenience and logical timing.

Check here if additional sheets are necessary, and label and attach them to this sheet.



Attachment C: Documentation Form (continued)

7. *Description of Site* - Describe all natural and man-made features at the property at which the regulated activity is proposed to be conducted.

Mirror Lake is a Palustrine Open Water system with a narrow fringe of Palustrine Emergent wetland encircling the east, west, and south sides. This resource area consists primarily of open water. Littoral fringe wetlands (e.g., emergent wetlands) are located along the northern, southeastern, and eastern shorelines. The western shoreline is predominantly lawn and weedy species. The littoral fringe wetlands consist of emergent marsh vegetation with dominant plants consisting of Broad-leaved Cattail, Duck Potato, and American Burreed. Mowed lawn lies upgradient and immediately adjacent to the emergent zone. A wooded island lies in the north central portion of Mirror Lake. The existing island is an upland area that supports a stand of Norway Spruce. Grey Birch and Red Maple are also present. The Island lacks a distinct shrub or herbaceous layer.

The lake outlets over a concrete spillway located on its northern end, discharging to Roberts Brook. Roberts Brook can be classified as a Riverine Upper Perennial Stream watercourse. The concrete ogee-crest spillway is approximately 5 feet high and 12 feet wide and is in fair condition. The concrete shows evidence of significant spalling although no major deterioration was evident on the spillway face. The spillway discharges to an approximately 18-foot wide trapezoidal concrete apron that sits 18 inches above the downstream channel. The spillway apron is deteriorated. The upstream and downstream training walls are cracked. The spillway apron (which appears undermined) has settled and cracked. Active flow is evident exiting underneath the right downstream side slope of the trapezoidal apron.

Check here if additional sheets are necessary, and label and attach them to this sheet.

8. *Disposal of Excess Material* - State the type and quantity of excess material anticipated from the project and where such material will be disposed.

Approximately 17,100 cubic yards of accumulated sediment material will be removed from the lake, dewatered on-site, and then transported off site in accordance with state and federal regulations to a solid waste disposal facility legally permitted to accept the type and quantity of material generated. The disposal facility will be determined by the contractor; however, construction documents will specify that the contractor must use a permitted solid waste facility and the contractor must obtain written approval from the solid waste facility and UConn prior to shipment of the material. Any requisite testing of the dewatered sediment prior to transport and disposal will be the responsibility of the contractor. Pertinent information will be provided by the contractor in a disposal plan, the preparation and submittal of which will be the responsibility of the contractor. The contractor's disposal plan will be made available to CTDEP for comment and final approval, if requested.

Check here if a disposal plan is included as Attachment C8.

## Attachment C8: Disposal Plan

### Inland Wetlands and Watercourses

Applicant: University of Connecticut  
Project: Mirror Lake Dredging  
Storrs Campus  
Storrs Road (Route 195)  
Storrs, Connecticut

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The proposed project will generate excess excavated material in the form of dewatered dredged sediments. Sediments will be dewatered such that they will pass the paint filter test and be capable of transport without leakage or spillage. The total amount of material to be dredged is approximately 17,100 cubic yards, in situ. The anticipated final disposal volume will be in the range of 12-15,000 cubic yards with a weight of about 15-20,000 tons.

After on-site dewatering, the sediments will be transported off site in accordance with state and federal regulations to a solid waste disposal facility legally permitted to accept the type and quantity of material generated. The disposal facility will be determined by the contractor; however, construction documents will specify that the contractor must use a permitted solid waste facility and the contractor must obtain written approval from the solid waste facility and UConn prior to shipment of the material. Any requisite testing of the dewatered sediment prior to transport and disposal will be the responsibility of the contractor. Pertinent information will be provided by the contractor in a disposal plan, the preparation and submittal of which will be the responsibility of the contractor. The contractor's disposal plan will be made available to CTDEP for comment and final approval, if requested.

**Gregory J. Padick**

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**From:** Gregory J. Padick  
**Sent:** Tuesday, January 12, 2010 10:31 AM  
**To:** P&Z / Inland Wetland Commission; Conservation Comm; Matthew W. Hart  
**Subject:** FW: Ponde place well-drilling

FYI

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

**From:** Jessie L. Shea  
**Sent:** Monday, January 11, 2010 4:44 PM  
**To:** Gregory J. Padick  
**Subject:** FW: Ponde place well-drilling

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**From:** Roger Kellman, P.E. [mailto:[rkellman@fahesketh.com](mailto:rkellman@fahesketh.com)]  
**Sent:** Monday, January 11, 2010 4:39 PM  
**To:** Grant Meitzler; PlanZoneDept; KNadeau@ctwater.com; Robert L. Miller  
**Cc:** 'David S. Ziaks'  
**Subject:** RE: Ponde place well-drilling

Just to keep you all up to date. The four wells have been drilled. The contractor will be hydrofracturing one of them in the next couple of days to see if we can improve the yield. We expect to begin the 72 hour pump yield tests on Monday or Tuesday. As part of that we are doing some water quality monitoring of two off site residential wells. We will also be monitoring water levels in a number of surrounding wells. We will let you know if there are any major schedule changes. Reports will be prepared on all of this.

Meanwhile if you have any questions please contact me or David Ziaks.

Roger

Roger Kellman, P.E.  
F. A. Hesketh & Assoc., Inc.  
6 Creamery Brook  
East Granby, CT 06026  
860-653-8000 ext 19  
860-844-8600 Fax  
[rkellman@fahesketh.com](mailto:rkellman@fahesketh.com)

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**Open Space Preservation Committee**  
**Minutes**  
**Tuesday, December 15, 2009**  
**MCC Conference Room**  
**7:30 p.m.**

1. Chairman Jim Morrow called the meeting to order at 7:42 p.m.
2. Members attending: Vicky Wetherell, Michael Allison, Quentin Kessel; Jim Morrow, Ken Feathers, and Jennifer Kaufman (Staff)
3. Welcome visitors-no visitors in attendance
3. Approval of minutes-Ken Feathers motioned to approve the minutes of November 17, 2009. Quentin Kessel seconded. Motion carried.
4. Opportunity for public comment-No public comment
5. Old business—none discussed.
6. New business
  - Open Space Committee Presentation to the Town Council-The committee discussed the objectives of the presentation. The committee will coordinate with the Parks Advisory Committee, Agriculture Committee, and Conservation Commission. It is anticipated that the presentation will be given with these other commission.
  - Subdivision Regulations--Tabled
  - Dorwart Trail marking—the committee visited the Dorwart Property and is planning the trail. Next steps will be to walk the trail with PAC to determine the best route.
7. Reports-none
8. Communications-none
9. Future agendas-Next meeting will focus on finalizing the presentation. The Committee still needs to review the subdivision regulations to provide feedback to PZC. Jennifer will inform the committee of when PZC needs the feedback.
10. Adjournment: Vicky Wetherell motioned to adjourn the meeting at 9:45 p.m. Michael Allison seconded the motion. Motion carried.

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**DRAFT MINUTES**  
MANSFIELD INLAND WETLANDS AGENCY  
Special Meeting  
Monday, December 21, 2009  
Council Chambers, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), M. Beal, J. Goodwin, R. Hall, K. Holt, B. Pociask, B. Ryan  
Members absent: P. Plante  
Alternates present: G. Lewis, K. Rawn  
Alternates absent: V. Stearns  
Staff present: G. Meitzler (Wetlands Agent), G. Padick (Director of Planning)

Chairman Favretti called the meeting to order at 7:00 p.m., noting that at this Special Meeting, the Agency will act on only the items posted on the agenda. Alternate Rawn was appointed to act to fill a vacancy, and alternate Lewis was appointed to act in Plante's absence.

W1444 (W1437)- Hillel House - Sidewalk and parking alterations

Pociask disqualified himself. Gregory Padick, Director of Planning stated that the Conservation Commission meeting minutes, received today, raised no issues with the modification.

Holt MOVED, Hall seconded, to approve a modification of a permit previously issued (file no. W1437) to B'nai Brith Hillel Foundation of Connecticut (file no. W1444) for site-work within regulated areas, at 54 North Eagleville Road. The modifications include shifting the existing parking spaces at the rear of the site and along the driveway so they are not located on adjacent University property; moving the present chain link fence to the west to demark the revised parking area; extending the new sidewalk along the west edge of the University owned drive/walkway from its former end and to the rear of the Hillel property accompanied by grading into a small wetland area on the property, as shown on a map dated October 16, 2009 revised through November 13, 2009, and as described in other applications submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Erosion and sedimentation controls shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized;
2. The final plan shall show restoration of the regraded wetland area adjacent to the walkway as a "rain garden" area consistent with the detail on Sheet 2 of the plans.

This approval is valid for a period of five years (until December 21, 2014), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment. MOTION PASSED with all in favor except Pociask who disqualified himself.

W1447 - IWA Regulation Revisions

Gregory Padick, Director of Planning, reviewed changes made since the last meeting. Discussion followed.

Holt MOVED, Hall seconded, to receive under Section 12 of the Wetlands and Watercourses Regulations of the Town of Mansfield, a revised set of the Wetlands & Watercourses Regulations dated 12/17/09, to set a public hearing date for March 1, 2010, and to refer the revised regulations to:

1. Dennis O'Brien, Town Attorney

2. The Town Council
3. The Conservation Commission
4. The Connecticut Commissioner of the Department of Environmental Protection

for their review and comment. MOTION PASSED UNANIMOUSLY.

**Adjournment:**

The meeting was adjourned at 7:56 p.m.

Respectfully submitted,

Katherine K. Holt, Secretary

**DRAFT MINUTES**  
MANSFIELD INLAND WETLANDS AGENCY  
Regular Meeting  
Monday, January 4, 2010  
Council Chambers, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), J. Goodwin, R. Hall, P. Plante, B. Pociask, B. Ryan  
Members absent: M. Beal, K. Holt  
Alternates present: G. Lewis, Kenneth Rawn, Vera Stearns (7:08 p.m.)  
Staff present: G. Meitzler (Wetlands Agent)

Chairman Favretti called the meeting to order at 7:00 p.m. Alternates Lewis, Rawn and Stearns were appointed to act. Chairman Favretti appointed Ryan as acting Secretary in Holt's absence.

**Minutes:**

12-7-09 - Hall MOVED, Ryan seconded, to approve the 12-7-09 minutes as written. MOTION PASSED UNANIMOUSLY.

12-16-09 Field Trip- Ryan MOVED, Favretti seconded, to approve the 12-16-09 field trip minutes as written. MOTION PASSED with Ryan and Favretti in favor and all others disqualified.

12-21-09 Special Meeting- Hall MOVED, Ryan seconded, to approve the 12-21-09 special meeting minutes as written. MOTION PASSED with all in favor except Plante who disqualified himself.

**Communications:**

The 12-16-09 draft Conservation Commission Minutes and the 12-30-09 Wetlands Agent's Monthly Business report were noted.

**Old Business:**

W1445 - Chernushek - additional gravel removal and construction haul road

Meitzler related that due to the potential for significant impact to wetlands and the necessity for a sand and gravel permit through PZC, staff's recommendation is to schedule a public hearing. Plante MOVED, Pociask seconded, to schedule a public hearing on 2-1-10. MOTION PASSED UNANIMOUSLY.

W1446 - Kielbania - Mansfield City R - SF house in buffer

Brian Kielbania, applicant, and Kenneth Pudeler, P.E., L.S., of Pudeler Engineering were present. Hall MOVED, Ryan seconded, to grant an Inland Wetlands License pursuant to Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Bryan F. & Margaret O. Kielbania (file no. W1446), for construction of a 3 bedroom single family house and appurtenant site work within regulated areas at 619 Mansfield City Road, as shown on a map dated 11.23.2009, revised through December 22, 2009, and as described in other application submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provision being met:

1. Erosion and sedimentation controls shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized.

This approval is valid for a period of five years (until January 4, 2015), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment.

MOTION PASSED UNANIMOUSLY.

W1447 - IWA Regulation Revision

Item was tabled pending a 3/1/10 Public Hearing.

**New Business:**

1448 - Renewal Request, Abramson - 214 Wormwood Hill Rd.

Ryan MOVED, Hall seconded, to approve a request for renewal of an Inland Wetlands License under Section 7.9 B. of the Wetlands and Watercourses Regulations of the Town of Mansfield to Harold J. Abramson for a wetland permit W1281 originally issued at the February 7, 2005 Inland Wetlands Agency meeting, for an office/studio/garage building on property now owned by the applicant and located at 214 Wormwood Hill Road on the northeast corner of the Mulberry R & Wormwood Hill Rd intersection, as shown on a plan dated 2/07/2005, and as described in other application submissions. This action is based on the application submissions, and consideration of applicable regulations.

Based on the above considerations, the Agency renews this permit, provided the following conditions are met:

1. Appropriate erosion and sedimentation controls, as shown on the plans, shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized.
2. All conditions of the previous approval shall remain in effect, and a copy of the original approval for application W1281 shall be a part of this condition.

This renewal is valid for an additional period of five years (until 2/07/2015), after which time a new permit application is required. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment.

MOTION PASSED UNANIMOUSLY.

**Reports of Officers and Committees:**

None.

**Other Communications and Bills:**

Noted.

**Adjournment:**

7:20 p.m.

Respectfully submitted,

Bonnie Ryan, Acting Secretary

## DRAFT MINUTES

### MANSFIELD PLANNING AND ZONING COMMISSION

Regular Meeting, Monday, December 21, 2009

Council Chamber, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), M. Beal, J. Goodwin, R. Hall, K. Holt, B. Pociask, B. Ryan  
Members absent: P. Plante  
Alternates present: G. Lewis, Kenneth Rawn,  
Alternates absent: Vera Stearns  
Staff Present: Gregory Padick (Director of Planning), Curt Hirsch (Zoning Agent)

Chairman Favretti called the meeting to order at 7:56 p.m. Alternate Rawn was appointed to act to fill a vacancy, and alternate Lewis was appointed to act in Plante's absence.

#### Minutes:

12/7/09-Hall MOVED, Ryan seconded, to approve the 12/7/09 minutes as written. MOTION PASSED UNANIMOUSLY.

12/16/09 Field Trip- Holt MOVED, Ryan seconded, to approve the 12/16/09 Field Trip minutes as written. MOTION PASSED with Beal, Ryan, Holt and Favretti in favor and all others disqualified.

#### Zoning Agent's Report:

Hirsch noted that 2 additional \$150.00 Zoning Citations have been issued to Ed Hall since the last meeting. Hirsch stated that the remaining trailer is hooked up to a truck in the driveway but has not been removed.

#### Old Business

##### 1. Site Modification Request, Sidewalk and Parking Improvements, Hillel Property, 54 N. Eagleville Rd, File #1289

Pociask disqualified himself. Hall MOVED, Holt seconded, that the PZC Chairman and Zoning Agent be authorized to approve the modification request of B'nai B'rith Hillel Foundation of CT for site improvements at 54 N. Eagleville Road, as depicted on a 10/16/09 site plan (revised to 11/13/09) as prepared by Datum Engineering and Surveying, LLC, and as described in other application submissions, subject to the following conditions:

1. All work, including the sidewalk extension and parking area expansion, shall be approved by the University of Connecticut. This modification approval shall not become effective until UConn acceptance of this work has been provided in writing.
  2. All Inland Wetlands Agency approval requirements shall be met.
  3. This approval is limited to the work shown on the above referenced plans. Other work, including any grading of the hillside north of the Hillel building will necessitate additional PZC review and approval.
  4. This action waives sideline setback provisions for the expanded parking area pursuant to the provisions of Article X, Section A.4.d. This waiver is based on existing site and neighborhood characteristics.
- MOTION PASSED with all in favor except Pociask who disqualified himself.

##### 2. 11/30/09 Letter from M. Margulies for the American Civil Liberties Union of CT

Padick updated the Commission that the Town Attorney has verbally related that there may be some merit to the claim by the ACLU, but he would like to review it more thoroughly and expects to have a recommendation for the next meeting.

##### 3. Potential Re-Zoning of the "Industrial Park" zone on Pleasant Valley Rd and Mansfield Ave.

Item tabled awaiting response from the primary property owners.

#### New Business:

##### 1. New Special Permit Application, Proposed Fitness Center at the Eastbrook Mall, 95 Storrs Rd, Cardio Express, LLC., applicant, File # 1290

Holt MOVED, Ryan seconded, to receive the Special Permit application, File #1290, submitted by Cardio Express, LLC, for a fitness club within the East Brook Mall, on property located at 95 Storrs Road, owned by East Brook F, LLC, as show on plans dated 12/11/09 and as described in other application submissions, and to refer said application to the staff for review and comments, and to set a Public Hearing for January 19, 2010. MOTION PASSED UNANIMOUSLY.

2. **Consideration of Bond Release, Paideia Educational Center, Dog Lane, File #1049**

Holt MOVED, Ryan seconded, that the Planning and Zoning Commission authorizes the Director of Planning to take appropriate actions to release the \$5,000 bond and accumulated interest that was posted in 1992 for the Educational Center and Chapel elements of the Paideia project on Dog Lane. A separate \$15,000 bond shall remain in place for the amphitheater and exhibit area portions of the project. MOTION PASSED UNANIMOUSLY.

3. **By-Laws**

Noting a redundant section in the PZC By-Laws, Holt MOVED, Rawn seconded, to delete in Article XI, the second Section 4. MOTION PASSED UNANIMOUSLY.

**Reports of Officers and Committees:**

None

**Communications and Bills:**

Padick called particular attention to items 3, 4 & 5. He also noted that the appointment of alternate Rawn to WINCOG needs approval by the Town Council. Holt MOVED, Beal seconded, that the Mansfield Planning and Zoning Commission designate alternate Kenneth Rawn to the WINCOG Regional Planning Commission as the alternate representative subject to Town Council's approval. MOTION PASSED UNANIMOUSLY.

**Adjournment:**

Chairman Favretti declared the meeting adjourned at 8:14 p.m.

Respectfully submitted,

Katherine K. Holt, Secretary

**DRAFT MINUTES**

MANSFIELD PLANNING AND ZONING COMMISSION  
Regular Meeting, Monday, January 4, 2010  
Council Chamber, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), J. Goodwin, R. Hall, P. Plante, B. Pociask, B. Ryan  
Members absent: M. Beal, K. Holt, vacant position  
Alternates present: G. Lewis, Kenneth Rawn, Vera Stearns  
Staff Present: Gregory Padick (Director of Planning)

Chairman Favretti called the meeting to order at 7:21 p.m. Alternates Lewis, Rawn and Stearns were appointed to act.

**Minutes:**

12/21/09-Hall MOVED, Ryan seconded, to approve the 12/21/09 minutes as written. MOTION PASSED with all in favor except Plante who disqualified himself.

**Zoning Agent's Report:**

Padick updated the Commission that Hirsch has issued E. Hall a fourth violation of \$150.00 and has not received any response to the previous three violations. Pociask asked that Hirsch look into the sale of cars at four corners intersection.

**Old Business**

1. **Special Permit Application, Proposed Fitness Center at the Eastbrook Mall, 95 Storrs Rd, Cardio Express LLC., applicant, File # 1290**  
Tabled pending a 1/19/10 Public Hearing.
2. **11/30/09 Letter from M. Margulies for the American Civil Liberties Union of CT**  
Due to potential for possible litigation, Plante MOVED, Hall seconded, that the PZC, Director of Planning and the Secretary enter into an Executive Session at 7:26 p.m. MOTION PASSED UNANIMOUSLY.  
Plante MOVED, Pociask seconded, to end the Executive Session at 7:52 p.m. MOTION PASSED UNANIMOUSLY.
3. **Potential Re-Zoning of the "Industrial Park" zone on Pleasant Valley Rd and Mansfield Ave.**  
Item was tabled, awaiting potential comments from primary property owner.

**New Business:**

None

**Reports of Officers and Committees:**

Chairman Favretti noted that he has heard from the Democratic Town Committee, and a recommendation for a PZC Alternate is expected by mid-January.

**Communications and Bills:**

Peter Plante and Alternate Kenneth Rawn expressed interest in attending the May 22, 2010 class from CLEAR.

**Adjournment:**

Chairman Favretti declared the meeting adjourned at 7:54 p.m.

Respectfully submitted,

Bonnie Ryan, Acting Secretary

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Memorandum:

December 30, 2009

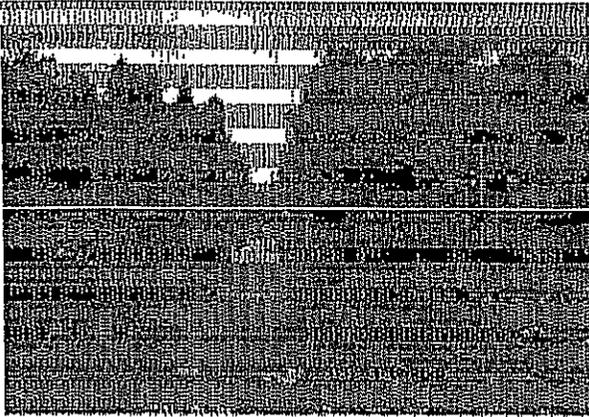
To: Inland Wetland Agency  
From: Grant Meitzler, Inland Wetland Agent  
Re: Monthly Business

W1419 - Chernushek - hearing on Order

- 3.10.09: The hearing on the Order remains open and should continue until the permit application under consideration is acted upon.  
(The Order was dropped on approval of the application required in the Order.)
- 4.30.09: Former rye grass seeding is beginning to show green. I spoke with Mr. Chernushek this afternoon who indicated health problems that delayed his starting but indicated he will be working this weekend. I will update on this Monday evening.
- 5.26.09: A light cover of grass growth has come in. Mr. Chernushek indicates health problems and two related deaths have delayed his start of work since the permit approval was granted. It appears that some light work has started. He has further indicated that he will start a vacation on June 22, 2009 to finish the work.
- 6.13.09: Work is underway.
- 6.21.09: Bulldozer work has been completed - finish work remains. The additional silt fencing has been placed along the northerly wetlands crossing, and the additional pipe under the southerly crossing has been installed. Remaining work includes finish grading along edges, spreading stockpiled topsoil, and establishing grass growth.
- 7.01.09: I spoke with Mr. Chernushek who indicated he expects work to be completed by September 1, 2009. (Site photo attached).
- 9.03.09: Mr. Chernushek has been working on levelling and grading. The formerly seeded areas have become fairly thick growth surrounding the central wet areas. He has further indicated that with the combination of weather and the slower moving of earth with the payloader compared to the earlier rented bulldozer has led him to contact contractors for earth moving estimates which have not yet been received. The site is not yet finished but has remained quite stable.
- 9.12.09: I met with Mr. Chernushek today and discussed again what his plans are for stabilizing this work site.
- 10.01.09: Mr. Chernushek indicated he has not heard back from the contractor he had spoken with about removing material, and is in progress of contacting others. In discussion is removal of material from the site either within the 100 cubic yard limit or obtaining a permit for such removal.
- 10.28.09: Mr. Chernushek has indicated he has made arrangements with DeSiato Sand & Gravel to remove 750 cubic yards of material. Staff is in the process of clarifying permit requirements.
- 11.30.09: Packet of information representing submissions by Mr. Chernushek, Mr. DeSiato and myself is in this agenda packet as Mr. Chernushek's request for modification.
- 12.29.09: Preparation of required information for PZC special permit application is in progress. Tabling any action until the February 1, 2010 meeting is recommended.

**Mansfield Auto Parts - Route 32**

- 12.08.08: Inspection - no vehicles are within 25' of wetlands.
- 1.16.09: Inspection - no vehicles are within 25' of wetlands.
- 2.24.09: Inspection - no vehicles are within 25' of wetlands.
- 3.06.09: Inspection - no vehicles are within 25' of wetlands.
- 4.14.09: Inspection - no vehicles are within 25' of wetlands.
- 5.11.09: Inspection - no vehicles are within 25' of wetlands.
- 6.10.09: Inspection - no vehicles are within 25' of wetlands.
- 7.16.09: Inspection - no vehicles are within 25' of wetlands.
- 8.12.09: Inspection - no vehicles are within 25' of wetlands.
- 9.14.09: Inspection - no vehicles are within 25' of wetlands.
- 10.27.09: Inspection - no vehicles are within 25' of wetlands.
- 11.30.09: Inspection - no vehicles are within 25' of wetlands.
- 12.28.09: There are two cars that need to be moved. Mr. Bednarczyk indicates their payloader is down for repairs and the cars will be moved as soon as it is repaired.



# ENVIRONMENTAL MANAGEMENT

# BULLETIN



THE VOICE OF LOCAL GOVERNMENT

*Greg P.*

**CONNECTICUT CONFERENCE OF MUNICIPALITIES**

900 CHAPEL STREET, 9th FLOOR, NEW HAVEN, CT 06510-2807 PHONE (203) 498-3000 • FAX (203) 562-6314

**www.ccm-ct.org: Your source for local government management information on the Web**

December 30, 2009, No. 09-07

## ***NEW:* Online Resource to Help Local Officials With Land Use Plans**

The State Department of Environmental Protection (DEP) and UConn's Center for Land Use Education and Research have **created a new online planning tool for local officials**. This new resource, called the **Connecticut Environmental Conditions Online** or "CT ECO", is one of the results of the 2007 responsible growth initiative — and is a comprehensive website found at: [www.cteco.uconn.edu](http://www.cteco.uconn.edu).

**CT ECO includes critical state environmental and natural resource information** such as; protected open space, farmland soils, wetland soils, aquifer protection areas, water quality classifications, and drainage basins. This planning information, which includes several sets of high resolution imagery, can be viewed separately or in conjunction with other environmental and natural resource information.

Using advanced software that combines internet and geographic information system (GIS) technology — CT ECO's mission is simple: **to support and promote informed land use and development decisions in Connecticut by providing an integrated package of land use research, tools and outreach for local land use decision makers.**

CT ECO [www.cteco.uconn.edu](http://www.cteco.uconn.edu) — provides:

- Map catalog** — Individual town maps in "portable document file" (PDF) format for major resource layers including soils, wetland soils, protected open space, aquifer protection areas and more. These files can be downloaded and printed from a user's printer or plotter.
- Easy-to-use interactive map viewer** -- Allows a user to view map themes including soils, wetland soils, protected open space, and aquifer protection areas overlaid on various dates of aerial photography.
- Advanced Map Viewer with additional GIS layers and tools** -- Unlike the basic viewer, the advanced viewer allows a user to display and interact with multiple layers at once.
- Map Services** -- Allow users of desktop geographic information system (GIS) software to connect directly to the environmental and natural resource map data from CT ECO. This allows a user to overlay CT ECO data with their own geospatial data inside a desktop GIS.
- Online reference documents** with comprehensive explanations of the natural resource and environmental information.

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For more information about this website, contact DEP directly at (860) 424-3540, [dep.cteco@ct.gov](mailto:dep.cteco@ct.gov); or UConn at (860) 345-4511, [clear@uconn.edu](mailto:clear@uconn.edu).



THE VOICE OF LOCAL GOVERNMENT

*This bulletin has been sent to all CCM-member Mayors, First Selectmen, Town/City Managers, Municipal Engineers, Municipal Planning Directors, and Public Works Directors*

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