

From: rwdunn1 <rwdunn1@aol.com>

To: PGianqui <PGianqui@GilbaneCo.com>; kenbiega <kenbiega@ogind.com>; brianschuch <brianschuch@gmail.com>; parkrec <parkrec@oldlyme-ct.gov>; pcarney <pcarney@wesleyan.edu>; building <building@oldlyme-ct.gov>; paul <paul@pfna.com>; gahdds <gahdds@aol.com>; parkerju <parkerju@aol.com>; breemsnyder <breemsnyder@oldlyme-ct.gov>; rhodesj <rhodesj@region18.org>; rfroach <rfroach@comcast.net>; skip.sibley <skip.sibley@yahoo.com>; gilsoucie <gilsoucie@sbcglobal.net>; NCParch <NCParch@sbcglobal.net>

Subject: Re: Meeting Agenda Items

Date: Tue, Jun 9, 2015 6:25 pm

Attachments: SCN\_0010.pdf (9297K)

Paul,

Please include the following agenda items. A couple I have suggested before, and I also include some reasons why the committee should address at this time.

- Review STEAP Grant Reimbursement Requirements (I will bring a summary to the meeting)
  - The eligibility of certain costs for reimbursement could impact design decisions.
  - Also we need to plan to meet expectations for DEEP plan review and competitive bidding.
- Establish consistent estimate for planned Boathouse usage driving design criteria.
  - To date, both the Oct 2014 bid documents regarding adequacy of existing septic system, and the application submitted to CT Dept. of Public Health seeking approval to connect the new Boathouse bathrooms to the existing Hains Park septic system (attached), state there will be no increase in flow to the septic system after Boathouse renovation.
  - However, this appears inconsistent with proposed increases in Boathouse use driving other design criteria (10%, 20%, more? increase in rowers, inclusion of Old Saybrook high school rowing program in 2015, and any increase in the hosting of special events/regattas, etc.).
  - This important design criteria should be realistic, transparent, and applied consistently.
- Discuss Site Considerations and Constraints.
  - For example, how location of replacement basketball court may impact footprints of the Boathouse, public toilet/pavilion, or site costs.
  - Based on proposed changes to Boathouse usage, will additional septic capacity, and where could it be located?
- Confirm that "separate toilets for use by students only" is not a "requirement"
  - Because renovation of the Boathouse is a Town- and STEAP-funded project (and not a school project), my understanding is that "separate toilets for use by students only" is not a "requirement".
  - The school has acknowledged that students can continue to use public toilets when sharing Town facilities (as they do now at Hains Park and at Town Woods Park). If a supervision concern were to arise in the future, the school has the option to increase school staff at the park during the 10-12 week crew season.
  - Designating Boathouse toilets for exclusive use by students at any time would also not be acceptable in a STEAP-supported public recreational facility.
  - P&R and club teams using Town parks also use public restrooms.

Whether the committee ultimately decides to include toilets in the expanded boathouse or not, will depend upon a number of factors, including code considerations and costs – however, it is important that such future decisions be well-informed, and not based on incorrect assumptions.

Thanks, Bob

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

From: Gianquinto, Paul A. <PGianqui@GilbaneCo.com>

To: Biega, Ken <kenbiega@ogind.com>; brianschuch <brianschuch@gmail.com>; Bugbee, Don <parkrec@oldlyme-ct.gov>; Carney, Phil <pcarney@wesleyan.edu>; Dunn, Bob <rwdunn1@aol.com>; Flower, John <building@oldlyme-ct.gov>; Fuchs, Paul <paul@pfna.com>; Hack, Greg <gahdds@aol.com>; Parker, John <parkerju@aol.com>; Reemsnyder, Bonnie <breemsnyder@oldlyme-ct.gov>; Rhodes, John

TEST PIT DATA (4-14-14)

BY: TOWN OF OLD LYME

TEST PIT #1

DEPTH: 89"

MATERIAL: 0"-32" TOPSOIL;  
32"-54" ORANGE BROWN LOAM SAND;  
52"-89" MEDIUM-COARSE SAND AND GRAVEL WITH COBBLES;

GW: SEEPS AT 75"; MOTTLES AT 68".

EXISTING SEPTIC SYSTEM CAPACITY

MLSS

- NOT REQUIRED - RESTRICTIVE LAYER > 60"

EXISTING CAPACITY

- EFFECTIVE LEACHING (18" GALLERIES) = 6.2 SF/LF
- EFFECTIVE LEACHING AREA = (6.2 SF/LF)(96 LF) = 595 SF
- SEWAGE APPLICATION RATE (CT DPH, TABLE 8-NONRESIDENTIAL) = 1.5 GPD/SF (FOR 1-10 MIN/IN)
- AVAILABLE CAPACITY = 1.5 GPD/SF (595 SF) = 893 GPD

EXISTING CAPACITY

- THERE IS NO DESIGN FLOW COMMENSURATE WITH A BEACH PARK IN THE LATEST EDITION OF THE TECHNICAL STANDARDS. THE 2007 EDITION HAD A DESIGN DEMAND FOR CAMP/FAMILY CAMPGROUND, PICNIC PARK (TOILETS ONLY) = 5 GPD/PERSON.
- THE 2011 EDITION HAS A DESIGN DEMAND FOR CAMP/FAMILY CAMPGROUND, DAY CAMP - 15 GALLONS PER PERSON. THIS ASSUMPTION IS THAT EACH PERSON IS AT THE CAMP FOR AN 8-HOUR DAY, WHICH WOULD BE VERY CONSERVATIVE FOR A BEACH SETTING WHERE FAMILIES ARE THERE FOR 2-3 HOURS AT A TIME. IF WE ASSUME 2-3 HOURS, IT CORRESPONDS WITH THE 2007 EDITION ASSUMPTION FOR A PICNIC PARK OF 5 GALLONS PER DAY PER PERSON.
- USING AN ASSUMPTION OF 5 GPD/PERSON, THE EXISTING DAILY PERSON CAPACITY = 893 GPD / 5 GPD/PERSON = 178 PEOPLE/DAY
- BASED ON EXISTING PARKING (20 CARS) AND THE 5 GPD/PERSON ASSUMPTION, THIS SYSTEM IS CODE-COMPLYING AND SUFFICIENTLY SIZED.
- THE ANECDOTAL EVIDENCE ALSO SUGGESTS THE EXISTING SYSTEM IS SUFFICIENT TO ACCOMMODATE THE PROPOSED BATHROOM. THIS PROJECT IS A RENOVATION OF AN EXISTING BOAT HOUSE (WITHOUT A BATHROOM). THE PROJECT WILL NOT RESULT IN ADDITIONAL USERS TO THE PARK, AND THEREFORE IT WILL NOT RESULT IN ADDITIONAL FLOW TO THE SEPTIC SYSTEM. ANY CURRENT BOAT HOUSE USERS USE THE EXISTING BATH HOUSE SO THEY WOULD SIMPLY BE USING A DIFFERENT TOILET FACILITY UNDER THE PROPOSED CONDITIONS.
- THIS SYSTEM WAS INSPECTED ON APRIL 14, 2014 BY SHORELINE SANITATION AND ALL COMPONENTS OF THE SYSTEM WERE FOUND TO BE "FUNCTIONAL...AND IN GOOD WORKING ORDER." THE SYSTEM IS SUFFICIENT TO HANDLE CURRENT FLOWS AND THE PROPOSED PROJECT WILL NOT INCREASE THOSE FLOWS.

SANITARY NOTES:

1. EXISTING SYSTEM CONSISTS OF:
  - 1,500 GALLON SEPTIC TANK
  - DISTRIBUTION BOX
  - 96' - 18" CONCRETE GALLERIES
2. ALL GRAVITY PIPE SHALL BE PVC SCHEDULE 40, ASTM 1785.
3. PRESSURE PIPE: PVC, ASTM D2241, SDR 21.
4. PUMP CHAMBER SHALL HAVE DUAL PUMPS

PERC. TEST DATA (4-14-14)

BY: BSC GROUP

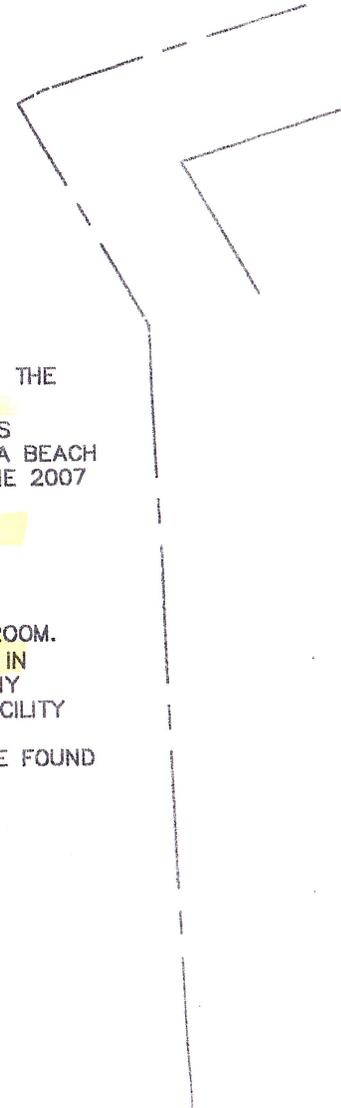
PERC. TEST #1

DEPTH: 22"

PRESOAK: 11:00 AM - 12:00 PM

TIME:	DEPTH (IN.):
12:20	0
12:30	4
12:40	7
12:50	9
1:00	11
1:10	13
1:20	14.5

PERC. RATE: 1-10 MIN/IN



State of Connecticut, Department of Public Health  
Central Sewage System Exception Application

To: Environmental Engineering Program  
Department of Public Health  
410 Capitol Ave., MS# 51SEW  
P.O. Box 340308  
Hartford, CT 06134-0308

Date: 08/19/2014

Local Health Department: Town of Old Lyme

Mailing Address: 52 Lyme Street

Old Lyme, CT 06371

Attn: Robert Scully (robert.scully@ct.gov)

Phone Number: (860) 434-1605 ext:229

Email Address: smarino@oldlyme-ct.gov

Property Owner Name: Town of Old Lyme

Property Address: 166 Boston Post Road

Town: Old Lyme

Building 1 Description: Public Restrooms for Hains Park

(example: single-family residential building, office building, restaurant, etc.)

Building 2 Description: New Crew Boathouse with Changing Rooms and Restrooms

(example: garage/workshop with 1/2 bath, 1-bedroom guest room, pool house cabana, office building, etc.)

Building floor plans reviewed to confirm the layout is consistent with basis of design?  YES  NO

Water supply and sewer connections shown on plan for buildings served?  YES  NO

Public Health Code Section 19-13-B100a (B100a) compliance demonstrated (if applicable)?  YES  NO

Connection to New, Repair or Existing subsurface sewage disposal system (SSDS)? EXISTING

If the connection is to an Existing SSDS, fill in the following:

Approximate age of SSDS: June 1974

As-built on file?  YES  NO

Septic tank size (gallons): 1,500

Two compartment septic tank?  YES  NO

Date of the most recent septic tank pump-out: April 14, 2014

Tank material type: CONCRETE

Leaching system description: 96' of 18" galleries

Any problems or deficiencies noted with the septic tank or leaching system?  YES  NO

Comments: The use of the property will not be changed. There will be no increase in design flow.

Documentation Submitted:

Soil Test Data

B100a compliance plan/sketch, if applicable

Central system plan with design information showing buildings, wells, property lines, SSDS, etc.

Plan prepared by:

Professional Engineer

Licensed Installer

Other:

Plan reviewed by: Sonia Marino, R.S.

(Print Name and Title)

Signature:

Clear Form

rev. 7/12