

**WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION  
MEETING OF 20 DECEMBER 2017**

**In Attendance:** Fred Knight, Rick Greene, Uday Virkud and Jane Capasso  
**Absent:** None  
**Guests:** Anette Lewis and Fred McFadden of Katz Properties  
**Meeting Location:** 7:30 pm Wayland Town Building

**Minutes**

*Note: Items may not be discussed in the order listed or at the specific time. Times are approximate.*

7:30 1. Call to order

7:31 2. Public comment:

Annette Lewis – Three comments regarding giving away more capacity: 1) Under your statute, in order to give someone capacity they have to show that they can put in a septic system of equal capacity. Your statute was created as a no growth system. 2) The idea is to keep your system available for people with failing septic systems. 3) As an entity, you cannot and should not have to supply capacity to people forever. If you have to cut back or exceed your limits, you have a problem. Also, the land that is a backup system at the Town Building is not available to you and in the future you may not get the town vote to use it. Give yourself some room in case things are repealed.

7:35 3. Board discussion on 317 Boston Post Road, Katz Properties, plans and connection application.

Rick: Annette's comment on no growth doesn't apply. We are currently talking about a change of use in an existing property. Fred: The Town Center was new growth and that was approved by Town Meeting. The 45,000 gpd of design flow was never considered in the original legislation. If someone requests a change, we have not uniformly considered whether they need to be able to build an onsite septic system. We are far away from the mechanical capacity of the plant and some of the design flow is not being utilized in the Town Center due to vacancies.

7:45 4. Katz Properties to present their plan for the plaza at 317 Boston Post Road and a connection application for more design flow.

Fred McFadden: Katz properties are the ownership group behind Wayland MZL, LLC. Katz and Winslow Properties used to run the plaza. Winslow Properties is no longer part of the group. Fresh Market is leasing Whole Foods and they decided not to open a Fresh Market. They are working to sublease the space. They are open to another grocery store and have the capacity for this. They are also looking at a gym. Katz Properties has been renovating the plaza and working to lease the vacant spaces. Rick: A gym versus a grocery store has very different capacity and draw for the plaza. Fred: The WWMDDC wants to be careful with how much flow we add. Fred McFadden: We are in the idea stage right now and can't move ahead until we know if the design flow is available. Water Lily is closed and Energy Unlimited will be gone within a few days and we don't know about the other three. Retail is a tough market right now and we know people want restaurants and coffee shops in Wayland.

Fred: The WWMDDC is trying to understand how to go forward with the Town Center request for design flow for a 150 seat restaurant and your request for approximately 2,000 gpd of design flow. The Board needs to decide what capacity is available. Rick: There are too many unknowns for the board to make a commitment now.

Fred: We appreciate you coming in with a plan and that you need capacity to attract business. Our next meeting we will have National Development in presenting their long term vision of the Town Center. If they don't need more at that point, we will look more favorably on your plan. The Town Center can also put in a separate 10,000 gallon leaching field. Fred McFadden will attend the January 11, 2018 board meeting.

Jane: Distributed a list of Town Center design flow and a list of the whole wastewater system showing design flow, connected users and the capacity used as of September 30, 2017. The Town Center request for a 150 seat restaurant and Katz properties were not included. Rick: Concerned that some users are using more than half their allotted design flow and some condominiums have added on a third bedroom even though they are zoned as 2 bedrooms. Fred: The trigger for a change in the system is 43,000 gpd in actual flow per the DEP. We will need to do further engineering for a leaching field at the Town Building. In the future, the Rivers Edge development may provide a safety valve by providing an extra leaching field decreasing our flow to the river. These are two big considerations.

- 8:35
5. Update on the status of the proposal to fund a new full-time position to oversee the operation of the two treatment plants in Wayland, the one for WWMDC and the one at the Wayland High School. Paul Brinkman presented potential savings in a position paper. The WWMDC and BOPW had a joint meeting on 28 Nov 2017. Uday attended last week's BOPW meeting to hear further discussion. The WWMDC will discuss this proposal in preparation for a January, 2018 joint meeting of the BOPW and WWMDC.

Fred: The Proposal would require WWMD to add 60% of a Wastewater Operations Manager (WOM) position to the FY19 Budget in the amount of \$68,000 (salary \$48,000 and benefits \$20,000). The school district would pay the other 40%. This would be a union position reporting to the DPW. The probability of savings based on Paul's position paper is a large reduction in overhead and maintenance charged by Whitewater.

Uday: Attended the BOPW meeting and then met with Paul to discuss his position paper. Uday questions whether there will be immediate savings when the new WOM is hired due to the learning curve and are there other expenses to be determined. Fred: Agrees that at first there will be very little savings. Bidding the plants together for a new management contract may allow us to get a better deal. Uday will the new WOM position be a manager and/or a maintenance person? Fred: The person will diagnose problems, make repairs and supervise the activities of the management company. The DPW will supervise the WOM position and it will be a union position.

Fred: A separate article will need to be approved at town meeting to increase personnel. The costs for the WOM position will affect the user rates, which will be discussed at the rate hearing. Uday: We have agreed to pay 25% of Paul's time in FY18 and for the new position in FY19 we will pay 60% of the WOM salary and the school district will pay 40%. For WWMDC that would be \$48,000 in salaries and \$20,000 in benefits. No payment in FY19 of Paul's salary.

Uday's motion: We would like to add \$68,000, maximum, towards the hire of an employee by the Department of Public Works to provide maintenance and management services to the Wastewater Management System. Rick second the motion. Fred agreed. All in favor 3-0.

Jane will add \$68,000 to the FY19 Budget and Fred will inform the BOPW of the

motion.

- 9:15 6. Final preparation for National Development to present long-term plans for Town Center at the January 2018 WWMDC meeting. The WWMDC approved additional design flow for a 150-seat restaurant at the Town Center with the caveat that National Development provides a long-term plan for other requests for additional design flow.

Jane will confirm that National Development will attend and present their long-term plan at the January 11, 2018 board meeting.

- 9:16 7. Status of finding contractors to provide emergency response, preventative maintenance and DigSafe functions. No update.

- 9:17 8. Status of the land and design flow acquisition from Wayland Meadows. WWMDC has received the PILOB from the Town and the administrative fee.

Jane is working with Finance, Treasury and Facilities to resolve how quarterly payments will be made for the design flow allocated to 5 Concord Road. Jane is locating agreements signed by the Conservation Commission on the land transfer.

- 9:20 9. Updates from Paul Brinkman, Town Engineer:

- A. New: 231 BPR Manhole Repair – Tom Holder, Joe Doucette and Paul Brinkman are asking for the board's approval to facilitate the repair. Attached memo explains the repair.

Board signed the approval letter to spend up to \$5,000. Fred: Suggested Paul contact Ed O'Neil to do the work and John Reagan for pumping. Paul will choose the appropriate contractors and oversee the project.

Jane asked who should be the primary contact in an emergency. The Board discussed that we are paying Paul to partially oversee the plant. Jane was asked to get an opinion from Tom Holder and Paul Brinkman.

- B. Infiltration/Inflow Control Plan. MassDEP requirement from all sewer system owners due 12/31/17. Requires analysis of flow data and submittal of a plan. There is no waiver allowed.

Paul has catalogued historic flow information, effluent discharge volumes and water use by sewer users. He has 2-3 more days of work.

- C. Meeting with Uday on Cost Analysis for the addition of a Wastewater Operations Manager position. See item 5 above.

- D. Tata & Howard is doing the design and engineering for a new water main on Boston Post Road. The project requires a number of borings as part of the design process.

Paul completed mark-outs for the proposed borings and met with the contractor prior to the work starting. Five were within or near the existing sewer. Four were not near the existing sewer.

The borings were completed without incident. If an incident occurs, the Contract says Tata & Howard are financially responsible.

- E. Second Pump Station – Researched the ownership of the property and determined responsible party. Assessor's Office has been called. It is the

condo associations' responsibility. Paul has a contact for them. Paul is seeking advice from the Commission to continue the process.

Paul will draft a letter to the condo association and Fred will review and have it come from him indicating the pump belongs to the condo association and they need to do annual maintenance. Paul should include wording to protect the WWMD. Jane will follow-up.

No Update on the following: The WWMDC read through the following:

F. Status of hiring DigSafe, a company to do mark-outs and system maintenance and a contractor for emergencies. This is awaiting the designation of funds at Special Town Meeting. Paul has been working with the Water Department to get notified of mark-out requests that are requested currently. Once the process is set up Paul can provide interim services for non-emergency mark-out requests. No Update.

G. Treatment Plant Capital Items:

- SCADA System and Security Cameras – Paul met with the SCADA Contractor for the Water Department at the Treatment Plant and he is willing to assist. He received a budget for the work, which was forwarded to the Board. A back-up of the SCADA programming and computer licenses have been received from the equipment manufacturer. No update.

- HVAC System, PM Filter and Air Valves – The Town HVAC Contractor is to provide a quote for remaining HVAC issues and maintenance on the boiler. No update.

H. Obtained CADD record drawings from Weston & Sampson for the original sewer system construction. Working with Brendan Decker – Town GIS - to get the information placed in the Town GIS system and better field located to assist with mark-outs. No update.

I. Met with Wayland Foreign Motors owner regarding the potential connection to the system. No update.

9:35 10. Administrative items:

A. Connection Application - Approve changes. No review. Form is all set.

B. Treatment Plant RFP – Paul Brinkman will start in February preparing a combined RFP with the WWMD and High School treatment plants. The current WhiteWater contract ends 10/15/18. No comment.

C. Rate Hearing Dates: What month should we do the rate hearing? The notice needs to be in the Wayland Town Crier 30 days in advance of the meeting.

The Rate Hearing is set for February 13, 2018. Jane will submit the ad to the Wayland Town Crier.

D. 21 Lillian Way Connection Application – Board review and procedure question:

User is renovating the basement and adding a ¾ bathroom. There is no change to design flow. Procedure question on whether the Board would like to sign all connection applications even if there is no change in design flow. The WWMDC would like to sign off on all connection applications. Jane will notify the Health Department.

E. Changes to Contact and Emergency Updates. See 9A above.

F. WWMD Treatment Plant Catch Basin Mowing – Joe Malloy said this should have been done and he hopes, weather permitting, to have it cleaned out the week of December 18, 2017.

9:45 11. Wastewater Rules and Regulations – Further comments from Rick. Passed over.

9:45 12. Approve minutes from previous meetings – 8, 15 and 28 Nov 2017.

Rick made a motion to approve the minutes for November 8, 2017. Fred second all in favor 3-0. November 15, 2017 and November 28, 2017 Rick abstained since he was not present. Fred moved to approve November 15 and 28, 2017 as written. Uday second. Passed 2-0.

9:50 13. Pay Bills, monthly budget update, year-to-date finances, and monthly commitments.

Bills approved in the amount of \$12,843.11. Board reviewed the monthly budget and year-to-date numbers. No commitment report for November, 2017.

10:00 14. Topics not reasonably anticipated by Chair 48 hours in advance of meeting.

A. WhiteWater Quotes for two blower repairs totaling \$2,640. Paul is reviewing the quotes with Joe Malloy and will report back to Jane. Board to review at the next Board meeting.

B. Oars Water Quality Analysis and billing – Rick reviewed the report and had one question for Jane to ask Paul. Bill will be paid in January.

9:40 15. Website status: recent postings and organization. Rick will look it over.

9:40 16. Calendar: upcoming meetings and events, including hearings.

The next WWMD Board meeting will be January 11, 2018. A joint meeting with the BOPW will be determined for January. Rate Hearing and monthly Board meeting will be scheduled for February 13, 2018. Uday will not be available from January 16 - March 1, 2018.

10:04 17. Public Comment

Annette Lewis: Wanted to reiterate that we need to follow our statutes on growth. WWMD statutes say you can hire an Executive Director. Is this the same as the new position proposed? Will this person be a licensed WW Operator? Fred: Yes the person will be licensed. Keep in mind that rate hearings need to be in line with the budget process and 30 days' notice is required so the public has input before you set your budget. In the past, there was an infiltration and inflow issue at the public safety building. Is this included in Paul's Report? Water was entering into the system and you were close to your discharge limit. When considering new design flow, there needs to be a spread in the flow due to infiltration. Enterprise funds, not paying any more for DPW person than X amount. Technically, the WWMD has to pay the full cost of the proposed new employee and it cannot be tax payer supported. The WWMD statute is very precise on your website It lays out what you can and can't do. Annette will send a link to Uday for review.

10:09 18. Adjourn

Attachments:  
Wayland Village Connection Application  
Wayland Village Design Flow & Billing from Jane

WWMDC Design Flow – Contains personal information Not included.  
Paul Brinkman's Position Paper on potential savings  
231 Boston Post Road Manhole Repair.  
Draft Rate Hearing Ad for FY2018  
21 Lillian Connection Application  
Contact and Emergency List – Contains personal information. Not included.  
Draft minutes from November 8, 15 and 28, 2018  
Monthly Operating Reports  
WhiteWater Blower Quotes  
OARs Water Quality Analysis and billing  
Agenda

## Capasso, Jane

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**From:** Fred McFadden <[fmcfadden@katzproperties.com](mailto:fmcfadden@katzproperties.com)>  
**Sent:** Tuesday, December 19, 2017 1:38 PM  
**To:** Capasso, Jane  
**Subject:** RE: WWMDC Board Meeting December 20 2017  
**Attachments:** Increased Waste Water - Wayland Village.xlsx; Sewer Connection App-Wayland Village.jpg

Hi Jane –

Attached is our application for increased waste water at Wayland Village as well as a breakdown of our plan for use. As you can see, we would like to increase the capacity of the restaurant and be able to add a hair salon to the Energy Unlimited space as they will soon be vacating. Ultimately we would also like to increase the restaurant capacity more and add a small boutique fitness use as well but we are not able to invest in all of this right now without knowing what's going to happen with the Fresh Market space.

We would like to purchase 1,183 additional gpd now as this would allow us the ability to lease the vacancies. If possible, we would also like to be granted the option to purchase the additional 1,200 gpd down the road as leasing develops. Between purchasing the additional 1,183 gpd and the significant renovations we have going on right now, we are investing a significant amount of money in the property in an effort to get it leased and occupied with a desirable mix of tenants, so we believe it would be fair for the town to commit this additional 1,200 gpd.

Please feel free to contact me with any questions. I look forward to the meeting tomorrow evening. Thank you.

Fred McFadden  
Regional Director  
Katz Properties  
617.841.9410

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**From:** Capasso, Jane [<mailto:jcapasso@wayland.ma.us>]  
**Sent:** Tuesday, December 19, 2017 10:25 AM  
**To:** Fred McFadden <[fmcfadden@katzproperties.com](mailto:fmcfadden@katzproperties.com)>  
**Subject:** RE: WWMDC Board Meeting December 20 2017

Perfect. I am at 66 river road, Wayland

Jane Capasso  
Account Specialist  
Wayland Wastewater Management  
District Commission  
508-358-6851

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**From:** Fred McFadden [<mailto:fmcfadden@katzproperties.com>]  
**Sent:** Tuesday, December 19, 2017 10:23 AM  
**To:** Capasso, Jane  
**Subject:** Re: WWMDC Board Meeting December 20 2017

<u>Space</u>	<u>Use</u>	<u>sf</u>	<u>seats</u>	<u>booths</u>	<u>lockers</u>	<u>gpd</u>
former Whole Foods + CVS	grocery	24192				2347
former Water Lily	restaurant	1476	48			1680
B Happy	retail	1959				98
Energy Unlimited (vacating)	beauty salon	2314		11		1100
Chinney's Alterations	retail	851				43
Wayland Pack & Ship	retail	861				43
<b>Totals</b>		<b>31653</b>	<b>48</b>	<b>11</b>	<b>0</b>	<b>5310</b>
	additional seating		20			700
	fitness				25	500
<b>Future Totals</b>		<b>31653</b>	<b>68</b>	<b>11</b>	<b>25</b>	<b>6510</b>

Wayland Village, Wayland MA





Wayland Wastewater Management District (WWMD)  
 66 River Road, Wayland, MA 01778-2697  
 508-358-6851 wastewater@wayland.ma.us

Updated 11/20/17

**SEWER CONNECTION APPLICATION**

(For New Connection or Modification to Existing Connection)

Property Owner/Applicant's Name: Wayland MFC LLC / Fred McEldon Date: 12/14/17  
 Contact Phone #: 617.841.9410 Contact Email: fmce@kateproperties.com  
 Property Address: 297 Boston Post Road  
 Describe Proposed Use or Modification: Small increase in seats at the former Water Lily space and to add a hair salon to the Energy Unlimited space which is vacating.

Title V Design Flow Calculation: Use MGL, Title V, 310 CMR 15.203. Located on the WWMD website. Review and approval by WWMD & Health Department.						
Reason for Application	Pipe Connection Required? (Yes or No)	Type of Establishment? If a change in use, indicate below.	Unit Type & # of Units. If a change in use, indicate below.	Gallons Per Day per Unit	Total GPD (# of Units X GPD per Unit)	Privilege Fee (\$65.07 X Total GPD)
New User						\$
Currently Paying for Design Flow, Requesting Connection		N/A	N/A	N/A	N/A	N/A
Connected, Change in Use and/or Connection	No	Restaurant Retail to Beauty Salon	increased seats Emer Val to Party	105 1100	1183	\$76,977.81

**Property Owner/Applicant Acknowledgement:**

- The undersigned has read the rules and regulations and agrees to conform with the laws, rules, regulations and ordinances relating to the use of the WWMD System.
- The undersigned agrees to pay all costs related to the connection of the building to the sewer main.
- The undersigned agrees to notify the WWMD, one day in advance, when the sewer connection is ready for inspection.
- The applicant's Engineer is responsible for: A) Field verifying the location and/or elevation of the lateral prior to work start, B) Preparing detailed engineering and as built plans for the connection, and C) Obtaining and paying for all necessary permits.
- The septic system shall not be abandoned until the sewer connection is completed and approved unless prior written approval is received from the Health Department.
- Approval of this application may be rescinded if the Privilege Fee payment is not received within 90 days.

Signature of Applicant: [Signature] Print Name: Fred McEldon, Agent Date: 12/14/17

**WWMD/TREASURY DEPARTMENT USE ONLY**

Privilege Fee for New Connections: \$ \_\_\_\_\_ (Design Flow \_\_\_\_\_ gpd X Fee \$ \_\_\_\_\_)

WWMD Approval [ ] or Disapproval [ ]. Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Treasury Department - Privilege Fee: Check #: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Directions: 1) Return the completed Connection Application to the Health Department. 2) You will be informed when the WWMD will meet to review the application. Attendance at this meeting is optional. 3) The WWMD will send their Approval or Disapproval to the Health Department and inform you. 4) If you do not owe a Privilege Fee, contact the Health Department. 5) Privilege Fee payments must be made in person at the Treasurer's Office, 41 Cochituate Road, Wayland, MA by check payable to "Town of Wayland". 6) Treasury signs the Connection Application. 7) Owner/Applicant delivers the application to the Health Department for final approval.

## Capasso, Jane

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**From:** Capasso, Jane  
**Sent:** Tuesday, December 12, 2017 9:39 AM  
**To:** Fred Knight <fred@knightway.org>; Rick Greene; Uday Virkud  
**Cc:** Capasso, Jane  
**Subject:** FW: 317 Boston Post Road Plaza  
**Attachments:** 317 Boston Post Road Plaza.pdf; WWMDC Connection Application 11-20-17.pdf

The new owners, Katz Properties, of the Whole Foods Plaza (317 Boston Post Road) called me last Thursday and requested the information below. They would like to attend either our December or January board meeting. I asked Fred McFadden to let me know by December 14, 2017 if they wish to attend our December 20, 2017 meeting.

He mentioned that Fresh Market is leasing the former Whole Foods space and they are looking at a gym or maybe Trader Joe's. Fred is looking into adding a coffee shop to the plaza now that Water Lilly and part of CVS are vacant. They have added a new roof, parking lot, dormers and sidewalk to the plaza.

Please read my response below. I informed Paul of the situation and he reviewed my email and attachments.

Thank you

Jane Capasso  
Account Specialist  
Wayland Wastewater Management District Commission  
41 Cochituate Road, Wayland, MA 01778  
508-358-6851

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**From:** Capasso, Jane  
**Sent:** Tuesday, December 12, 2017 9:30 AM  
**To:** [fmcfadden@katzproperties.com](mailto:fmcfadden@katzproperties.com)  
**Cc:** Capasso, Jane  
**Subject:** FW: 317 Boston Post Road Plaza

Hi Fred

Per your request, I have attached a list of the businesses at 317 Boston Post Road connected to the Wayland Wastewater Management District (WWMD) Treatment Plant.

On the 317 BPR Plaza attachment, I have the following notes:

- 1) Billing Address column: Is this information correct? Please send me any changes.
- 2) Property Address column: Our billing system is set up as all the properties in the plaza are at 317 Boston Post Road.
- 3) Design Flow (capacity) is based on MGL, Title V 310 CMR 15.203. Please see the notes at the bottom of the schedule.
- 4) Quarterly Charge column: Water Lily has an outstanding balance of \$895.22. Please ask them for payment.
- 5) Wayland MZL, LLC was allocated 4,127 gallons per day (gpd) for use in the plaza. If you wish to apply for more design flow, please present a plan for the plaza outlining future use and design flow requirements along with a Connection Application, which I have attached. The WWMD will inform you when they will be discussing the

plan at their next board meeting. You have the option of attending the meeting to discuss your request with the Board.

- 6) For any increase in design flow there is a one-time privilege fee of \$65.07 per gallon, which is the amount charged instead of a paid in lieu of betterment for the initial construction of the treatment plant. You will also be charged quarterly operational fees on any increase in design flow.

Please let me know if you would like to attend the December 20, 2017 Board Meeting no later than December 14, 2017 so we can include you on the agenda.

Thank you

Jane Capasso  
Wayland Wastewater Management  
District Commission  
508-358-6851

**317 Boston Post Road Plaza  
Design Flow and Billing**

Account #	Name	Billing Address	Property Address	Design Flow	Title V Type & Use	Quarterly Charge	Account Balance
2701066	WAYLAND MZL, LLC ( FORMER WHOLE FOODS-VACANT)	WAYLAND MZL LLC, C/O WINSLOW PROPERTY MGT LLC, PO BOX 36151 CHARLOTTE, NC 28236	317 BOSTON POST ROAD, WAYLAND, MA 01778	2,150	Supermarket, 22,161 SF, 97 gpd/1,000 SF	\$ 1,042.75	\$ -
2701088	WAYLAND PACK & SHIP, ATTN: MICHAEL LELIEVRE	297 BOSTON POST ROAD, WAYLAND, MA 01778	317 BOSTON POST ROAD, WAYLAND, MA 01778	43	Retail, 861 SF, 50 gpd/1,000 SF	\$ 20.86	\$ 20.93
2701089	ENERGY UNLIMITED OF NE	COTTI-JOHNSON HVAC, INC, 30 WAVERLY ST, TAUNTON, MA 02780	317 BOSTON POST ROAD, WAYLAND, MA 01778 (303 B.P.R.)	117	Retail, 2,341 SF, 50 gpd/1,000 SF	\$ 61.29	\$ -
2701090	WAYLAND MZL LLC (FORMER WATER LILY RESTRAUNT, HO-TAI WAYLAND, INC.-VACANT)	WAYLAND MZL, LLC, C/O KATZ PROPERTIES, PO BOX 37387, CHARLOTTE, NC 28237	317 BOSTON POST ROAD, WAYLAND, MA 01778	1,575	Restaurant, 45 seats, 35 gpd/seat	\$ 892.14	\$ 895.22
2701091	WAYLAND MZL LLC-VACANT (FORMER CVS)	WINSLOW PROPERTY MANAGEMENT, PO BOX 36151, CHARLOTTE, NC 28236	317 BOSTON POST ROAD, WAYLAND, MA 01778 (#313 B.P.R.)	102	Retail, 2,031 SF, 50 gpd/1,000 SF	\$ 49.47	\$ -
2701093	CHINNEY'S ALTERATIONS & DRY CLEANING	301 BOSTON POST ROAD, WAYLAND, MA 01778	317 BOSTON POST ROAD, WAYLAND, MA 01778	43	Cleaners, 851 SF, 50 gpd/1,000 SF	\$ 28.72	\$ -
2701098	B HAPPY, DBA REDLOLA LLC	LINA MOSCONE, 154 WOODRIDGE RD, MARLBOROUGH, MA 01752	317 BOSTON POST ROAD, WAYLAND, MA 01778 (#307 B.P.R.)	98	Retail, 1,959 SF, 50 gpd/1,000 SF	\$ 52.07	\$ -
Notes:						\$ 2,147.30	\$ 916.15
* Includes Interest							
Design Flow and Type and Use columns are based on Mass General Law, Title V 310 CMR 15.203 in gallons per day.							
Former Whole Foods - January, 2017 Wayland MZL was approved by the Wayland Wastewater Management District Commission to combine Whole Foods with a portion of the vacant CVS space. Due to a change in Title V Use the design flow for the plaza changed from 4,000 gpd to 4,127 gpd.							

Notes:

\* Includes Interest

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**DEPARTMENT OF PUBLIC WORKS**  
**TOWN OF WAYLAND**

*Entrusted To  
Manage The  
Public  
Infrastructure*

Thomas M. Holder  
*Director*

Joseph Doucette  
*Superintendent*

Don Millette  
*Superintendent*

Paul Brinkman  
*Town Engineer*

To: Wastewater Committee  
From: Paul Brinkman, Town Engineer  
CC: Nan Balmer, Town Administrator  
Date: December 5, 2017  
Subject: Cost Analysis

Attached please find a spreadsheet that was drafted to present the operations, maintenance and repair (OM&R) budgets for the Wastewater Management District Commission (WWMDC) and the Wayland High School (WHS). The spreadsheet presents two past years for actual costs as well as a representation of the existing fiscal year OM&R costs. Two future years are provided to demonstrate the likely changes in costs with the implementation of an Operation Manager (OM).

It is anticipated the implementation of the OM will provide better control over the costs of the OM&R at the two town-owned wastewater facilities. General comments regarding the analysis are as follows:

- The premise of the analysis was to project how OM&R expenditures might change with the addition of a new staff person to manage the Town's wastewater facilities.
- The new staff person could also provide services that are not currently part of the management of the wastewater facilities including management of the wastewater collection system and better oversight and coordination of compliance activities.
- The OM&R expenses are based upon information provided from the WWMDC and the Facilities Department.
- The projected budgetary values are my best estimates of the potential changes to the expenditures at the two facilities. They presume that there are no significant changes in the base costs of services.

HIGHWAY - WATER - PARKS - CEMETERIES - TRANSFER STATION - ENGINEERING

DPW FACILITY | 66 RIVER ROAD | WAYLAND, MASSACHUSETTS 01778 | TEL 508-358-3672

- The changes in future expenditures come from a number of areas of savings that include:
  - o Reductions in base contract costs. The first year only a slight reduction is anticipated as it will take some time for a person to come up to speed in the new role. The second year represents a larger savings as many efforts can be taken on by the OM.
  - o Sludge costs are reduced due to better tracking of the need for removal of treatment plant residuals. Savings also includes the discharge of reverse osmosis reject water at the Town Center treatment plant (or another facility with a better cost basis).
  - o Mark-up costs are not required as the OM will be directly contracting with the laboratory, sludge management, and chemical purchases.

Specific comments on the particular budgets are as follows:

- Additional labor costs are anticipated to be significantly reduced. The OM will be able to serve as the "second set" of hands for many of the two person jobs required at the wastewater facilities.
- Indirect Transfer to Town. This line represents payments to the Town for services provided by the Town in support of the WWMDC. It includes things such as Insurance, HR, Administration, Finance and Facilities. This item only appears in the WWMDC budget. Both an increase and a decrease is anticipated as part of this item. A decrease is likely as the effort by Facilities and other departments is less as the OM will be expected to manage those efforts. An increase of 42% was added to represent increased employee fringe benefits costs as a result of the additional personnel.
- A reduction in electricity is forecasted as the WWMDC facility is currently operated as if it needed to treat the full capacity. The OM will be able to optimize the facility and reduce electricity costs. (The utility costs for the HS system are not categorized, but there may be some savings to the overall utilities at the HS with more direct involvement of the OM).

This analysis cannot predict significant changes that may occur as the facilities age or due to equipment failure. For instance, in FY2017 the WHS facility cost more than \$262,000 to operate, more than double the expected budget for FY2018. However, having someone professional to observe and conduct OM&R on the systems will likely result in more control of the costs. It is unlikely that the contract costs and miscellaneous labor & expenses items will go to zero as there is a need for additional outside labor for OM&R at the facilities.

The decision to add staff may result in slightly higher cost, but will result in a more consistent and reduce the significant risks associated with continuing to rely solely on contractor operators to complete the work.

HIGHWAY - WATER - PARKS - CEMETERIES - TRANSFER STATION - ENGINEERING

DPW FACILITY | 66 RIVER ROAD | WAYLAND, MASSACHUSETTS 01778 | TEL 508-358-3672

Operations and Maintenance Budgets Analysis - Wayland Public Wastewater Systems

PDB  
12/4/2017

Labor Split	WWMDC	60%
	WHS	40%
Overhead Cost (WWMDC only)		42%
Inflation		3%

Expenses (Not Capital)

	WWMDC				
	FY2016 Actual	FY2017 Actual	FY2018 Budget	FY2019 Projected	FY2020 Projected
Salaries	\$ 28,283.67	\$ 25,994.02	\$ 29,555.00	\$ 26,000.00	\$ 26,780.00
Facility O&M Contract	\$ 46,962.42	\$ 46,800.00	\$ 47,700.00	\$ 47,700.00	\$ 30,000.00
Facility Misc Labor & Exp.	\$ 15,226.20	\$ 34,839.53	\$ 16,427.00	\$ 10,000.00	\$ 10,300.00
Legal Services		\$ 1,013.00	\$ 5,000.00	\$ 1,000.00	\$ 1,000.00
Indirect Transfer to Town	\$ 24,288.00	\$ 24,669.00	\$ 28,831.00	\$ 35,007.97	\$ 36,058.20
Operations Manager (split with WHS)				\$ 48,000.00	\$ 49,440.00
Building Repair and Improvement	\$ 2,477.58	\$ 6,589.66	\$ 2,000.00	\$ 5,000.00	\$ 5,150.00
Equipment Repairs and Maintenance		\$ 20,251.97	\$ 6,687.00	\$ 10,000.00	\$ 10,300.00
Sludge	\$ 13,290.00	\$ 30,331.00	\$ 26,168.00	\$ 20,000.00	\$ 20,600.00
Chemicals	\$ 7,372.86	\$ 6,644.47	\$ 2,787.00	\$ 7,000.00	\$ 7,210.00
Materials, Markup	\$ 14,316.47	\$ 6,596.33	\$ 5,346.00	\$ -	\$ -
Surface Water Testing	\$ 6,836.77	\$ 6,803.00	\$ 7,066.00	\$ 7,200.00	\$ 7,416.00
Trash		\$ 606.20	\$ 1,069.00	\$ 1,000.00	\$ 1,030.00
Natural Gas	\$ 4,177.62	\$ 3,844.09	\$ 3,351.00	\$ 3,500.00	\$ 3,605.00
Electricity	\$ 38,062.32	\$ 31,118.86	\$ 32,212.00	\$ 25,000.00	\$ 25,750.00
Telephone	\$ 1,382.85	\$ 1,319.79	\$ 1,316.00	\$ 1,400.00	\$ 1,442.00
Water	\$ 600.12	\$ 891.97	\$ 972.00	\$ 1,000.00	\$ 1,030.00
Billing (Vadar)	\$ 452.81	\$ 125.20	\$ 200.00	\$ 200.00	\$ 206.00
Contingency	\$ 3,000.00	\$ 3,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
<b>Total</b>	<b>\$ 206,729.69</b>	<b>\$ 251,438.09</b>	<b>\$ 241,687.00</b>	<b>\$ 274,007.97</b>	<b>\$ 262,317.20</b>

	WHS				
	FY2016 Actual	FY2017 Actual	FY2018 Estimated	FY2019 Projected	FY2020 Projected
Contract (Base Services)	\$ 44,400.00	\$ 44,400.00	\$ 44,400.00	\$ 45,000.00	\$ 30,000.00
Labor	\$ 14,762.40	\$ 21,482.50	\$ 16,020.00	\$ 15,000.00	\$ 15,450.00
Sludge	\$ 38,162.50	\$ 73,735.72	\$ 29,835.60	\$ 25,000.00	\$ 25,750.00
Chemicals	\$ -	\$ 4,333.45	\$ 5,221.40	\$ 6,000.00	\$ 6,180.00
Other	\$ 24,523.55	\$ 104,012.82	\$ 14,808.88	\$ 12,000.00	\$ 12,360.00
Mark-up	\$ 6,076.02	\$ 14,857.68	\$ 7,479.88	\$ -	\$ -
Operations Manager (split with WWMDC)				\$ 32,000.00	\$ 32,960.00
<b>Total</b>	<b>\$ 127,924.47</b>	<b>\$ 262,822.17</b>	<b>\$ 117,765.76</b>	<b>\$ 135,000.00</b>	<b>\$ 122,700.00</b>



**Wayland Wastewater Management District Commission**  
**66 River Road, Wayland, Massachusetts 01778-2697**  
**508-358-6851 [wastewater@wayland.ma.us](mailto:wastewater@wayland.ma.us)**

December 20, 2017

Thomas Holder  
Wayland DPW Director  
66 River Road  
Wayland, MA 01778

Dear Mr. Holder

The Wayland Wastewater Management District Commission (WWMDC) approves the Department of Public Works and Paul Brinkman to facilitate the manhole repair at 231 Boston Post Road which has an estimated cost of \$5,000. The WWMDC will suggest contractors for Paul Brinkman to contact.

The DPW will waive all permit fees and will facilitate the following services:

Pump Manhole  
Determine cause of flooded manhole  
Repair brick and mortar  
Possible replacement of frame and cover  
Paving (DPW has a contractor for this)

The Wastewater Management District Commission Approves the above repair at 231 Boston Post Road.

\_\_\_\_\_  
Fred Knight      Date

\_\_\_\_\_  
Rick Greene      Date

\_\_\_\_\_  
Uday Virkud      Date



**WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION**  
**66 River Road**  
**Wayland, MA 01778**

Date: January XX, 2018  
To: Wayland Town Crier  
From: Wayland Wastewater Management District  
Commission. Account #100242045  
CC:  
Subject: Legal Notice for Hearing on FY2019 Draft Budget and  
Proposed FY2019 Rates

Please run the following legal advertisement on January XX, 2018:

Wayland Wastewater Management District Commission Hearing  
on FY2019 Draft Budget and Proposed FY2019 Rates.

The Wayland Wastewater Management District Commission will hold a public hearing on reviewing the FY2019 Draft Budget and announcing FY2019 rates on Wednesday, March XX, 2018 at 7:30 PM at the Wayland Town Building, 41 Cochituate Road, Wayland, MA. Budget information will be available by January XX, 2018 on the WWMDC website at:

[http://www.wayland.ma.us/Pages/WaylandMA\\_BComm/Wastewater/index](http://www.wayland.ma.us/Pages/WaylandMA_BComm/Wastewater/index).

Wayland Wastewater Management District Commission

## Capasso, Jane

---

**From:** MacCaughey, Darren  
**Sent:** Friday, December 08, 2017 10:26 AM  
**To:** Capasso, Jane  
**Cc:** Knight, Fred  
**Subject:** 21 Lillian BOH Application Package (w/ WWMD App)  
**Attachments:** 21 Lillian Way BOH Application Packet.pdf

**Importance:** High

Hi Jane,

Application package attached, should not add any flows to septic and they are already deed restricted to two (2) bedrooms in the Master Deed...

Sincerely,

*-Darren*

Darren R. MacCaughey, R.S.  
Sanitarian/Health Agent  
Wayland Health Department  
[dmaccaughey@wayland.ma.us](mailto:dmaccaughey@wayland.ma.us)  
Office (508) 358-3617  
Fax # (508) 358-3619



Wayland Wastewater Management District (WWMD)  
 66 River Road, Wayland, MA 01778-2697  
 508-358-6851 wastewater@wayland.ma.us

**SEWER CONNECTION APPLICATION**  
 (For New Connection or Modification to Existing Connection)

Property Owner/Applicant's Name: Hoop C Campos-Taramillo Date: 10/30/2017  
 Contact Phone #: 860 995 3599 Contact Email: hucamp@gmail.com  
 Property Address: 21 Lillian Way, Wayland, MA 01778  
 Describe Proposed Use or Modification: Construction of Basement family room with 3/4 bathroom

Title V Design Flow Calculation: Use MGL, Title V, 310 CMR 15.203 to complete this section. Located on the WWMD website or online.						
Reason for Application	Pipe Connection Required? (Yes or No)	Type of Establishment? If a change in use, indicate below.	Unit Type & # of Units. If a change in use, indicate below.	Gallons Per Day per Unit	Total GPD (# of Units X GPD per Unit)	Privilege Fee (\$65.07 X Total GPD)
New Connection						\$ -
New Connection, Paying Operations fees						\$ -
Connected, Change in Use and/or Connection						\$ -

**Property Owner/Applicant Acknowledgement:**

- The undersigned has read the rules and regulations and agrees to conform with the laws, rules, regulations and ordinances relating to the use of the WWMD System.
- The undersigned agrees to pay all costs related to the connection of the building to the sewer main.
- The undersigned agrees to notify the WWMD, one day in advance, when the sewer connection is ready for inspection.
- The applicant's Engineer is responsible for: A) Field verifying the location and/or elevation of the lateral prior to work start, B) Preparing detailed engineering and as built plans for the connection, and C) Obtaining and paying for all necessary permits.
- The septic system shall not be abandoned until the sewer connection is completed and approved unless prior written approval is received from the Health Department.
- Approval of this application may be rescinded after 180 days if the project is not complete.

Return the Connection Application to the Health Department. The applicant will be informed when the WWMD will meet to review the application. Attendance at this meeting is optional.

Signature of Applicant: Hoop C Campos T Date: 10/30/17  
 Print Name: Hoop Cesar Campos-Taramillo

**RECEIVED**

NOV 27 2017

WWMDC USE ONLY		TOWN OF WAYLAND BOARD OF HEALTH
Privilege Fee for New Connections: \$ _____	(Design Flow _____ gpd X Fee \$ _____)	
Privilege Fee Paid: Yes / No	Check #: _____, Date: _____	
WWMD Approval [ ] or Disapproval [ ]	Signature: _____	<b>RECEIVED</b>
Comments: _____		DEC 08 2017
Wastewater Account #: _____	Wayland Wastewater Management District	Man. updated: 9/26/17

**BOH Building**

**APPLICATION FOR BOARD OF HEALTH APPROVAL TO OBTAIN A BUILDING PERMIT**

# \_\_\_\_\_

**FEE SCHEDULE: (payable to the Town of Wayland)**

New Construction, Demolition, Additions, Porches, Garages - \$ 150  
Temp Mobile Homes/Change of Use \$ 75; Decks \$ 50; Sheds \$ 25  
Private- Above Ground Pool \$ 25; In Ground Pool \$100  
Public/Semi Public Pool - \$ 200

App # \_\_\_\_\_

Permit # \_\_\_\_\_

Check # \_\_\_\_\_ Fee Paid \$ \_\_\_\_\_

Name of Owner(s): print Hugo Cesar Campos Taramillo

Property Location: 21 Lillian Way Wayland MA 01778

Proposes to Change / Construct Demolish (please describe project): Basement family room with 3/4 bathroom

This property is served by  Subsurface Sewage Disposal  Town Sewer (WWMDC/pre-approval required)

(check) I have wetlands, a stream or water body on or near my property and I have worked with Conservation on this project. \_\_\_\_\_ Conservation submittals date if applicable.  (check) I have met with the Building Dept. to see if this project needs ZBA approval. \_\_\_\_\_ ZBA submittals date if applicable.

**\*Requirements for Items 1-6 are listed on the back**

- 1.  to construct a new building.
- 2.  to add to an existing dwelling or other existing building.
- 3.  to alter an existing dwelling or other existing building.
- 4.  to change the use of an existing dwelling or other existing building.
- 5.  for additional use of an existing dwelling or other existing building.
- 6.  to demolish an existing dwelling or other existing building.

**RECEIVED**

NOV 27 2017

TOWN OF WAYLAND  
BOARD OF HEALTH

Signed: \_\_\_\_\_ (Owner/Agent)

The applicant warrants the truthfulness of the information in the application and that if any of the information provided is incorrect, the building permit may be revoked. If Agent: (check)  I hereby certify that the proposed work is authorized by the owner of record and I have been authorized by the owner to make this application as his authorized agent.

Print Applicant name Hugo Cesar Campos Taramillo (Owner/Agent)

Full Address \_\_\_\_\_

Telephone (508) 358 6029 Cell (860) 995 3599

Email hucamp@gmail.com

**WWMDC Authorization  
Board of Health Action**

Approved   
Approved

Disapproved   
Disapproved

**Comments or Conditions**

*\* No new bedrooms or added flow proposed (Family room may not be used as a bedroom)  
\*\* Unit is restricted to a maximum of 2 bedrooms.*

Date: \_\_\_\_\_ Board of Health (or Agent): \_\_\_\_\_

Board of Health approval means only that the proposed construction does not interfere with or violate setback requirements or its rules and regulations based on information submitted. It is expected that the applicant will not cause any increase in wastewater flow to the sewer system if town sewer (as authorized by the WWMDC) or to the septic system; unless a septic system designed to accommodate that increased flow has already been approved by the Board of Health and has been installed.

**DANNIN**  
MANAGEMENT CORPORATION

11/27/2017

Hugo Campos  
21 Lillian Way  
Wayland Ma 01778

*RE: Renovation Approval Letter*

Dear Mr. Campos,

Please allow this letter to serve as a grant of permission from the Board of Trustees of River Trail Place Condominium Trust for your request to complete the renovations mentioned below at the above referenced address per your request.

**-Renovation of unfinished basement**

It is understood that the unit owner is responsible for all licensed professionals and applicable permits and that contractor's license(s) and appropriate paperwork is on file with the Town of Wayland.

Lastly, you must adhere to the rules and regulations of River Trail Place Condominium Trust during all aspects of construction. Construction can only take place between the hours of 8:00 AM and 5:00 PM, Monday through Fridays. No construction can be completed on holidays, weekends or after 5:00 PM daily.

I wish you the best of luck with your renovations and should you need any assistance with this project, please feel free to contact me at (617) 731-0222.

Sincerely,



Eric Rubin  
Property Manager  
Dannin Management Corporation  
PO Box 117  
Brookline, MA 02446

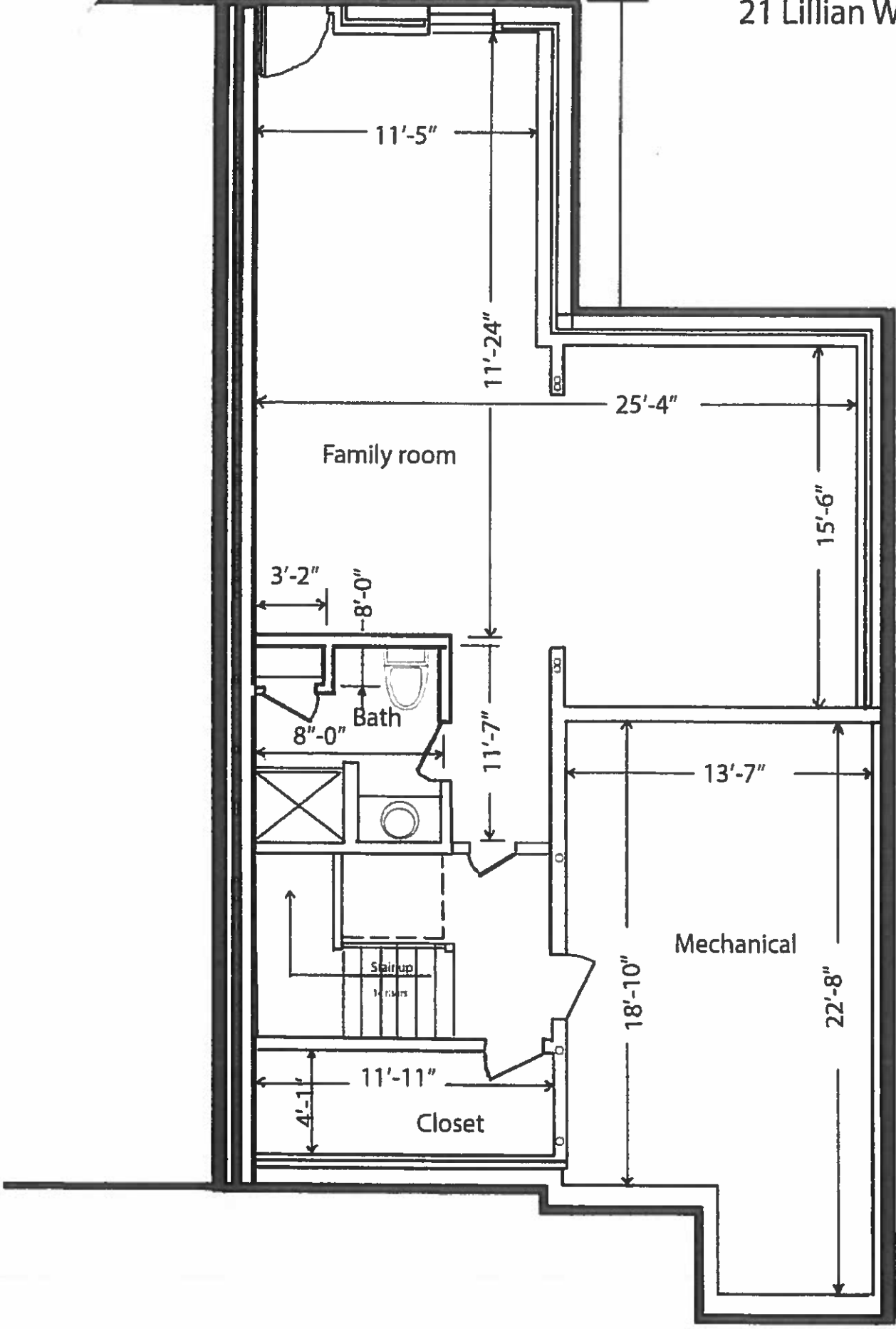
**RECEIVED**

NOV 27 2017

BOARD OF WAYLAND  
BOARD OF HEALTH

Areaway

21 Lillian Way



**WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION  
MEETING OF 8 NOVEMBER 2017**

**In Attendance:** Fred Knight, Rick Greene (arrived at 7:40 pm), Uday Virkud and Jane Capasso  
**Absent:** None  
**Guests:** National Development: David Costello, Erika Clarke; Martinage Engineering: Don Martinage and John Martinage; REAC/EDC: Rebecca Stanizzi; Linda Segal and Cherry Karlson.  
**Meeting Location:** 7:30 pm Wayland Town Building

**DRAFT MINUTES**

*Note: Items may not be discussed in the order listed or at the specific time. Times are approximate.*

7:35 1. Call to order

7:35 2. Public comment

Linda: Comments on Paul Brinkman's memo: The first bullet used an estimate of average flow over the last 6 months. Whole Foods was closed for most of this time and she would like the numbers to go back more than 6 months.

Linda: In Item 4 below, the land set aside at the Town Building to be used as a discharge location has not been voted on by Town Meeting and is not owned or operated by the WWMDC or the DPW. Fred: Is this necessary? Town Counsel reviewed this. Linda: Recollects differently and suggests this should be reviewed.

Linda: Making the Town Center more viable is in everyone's best interest.

7:40 3. Welcome to new WWMDC member, Uday Virkud. Uday was appointed by the Selectmen on 30 Oct 2017 after he expressed interest in joining. The chair appreciates his volunteering to serve.

7:42 4. Presentation of memo from Town Engineer Paul Brinkman indicating feasibility of adding 5,250 gpd of Title V design flow. Chair proposes a motion: that the WWMDC approve an additional 5,250 gpd of Title V design flow for a 150-seat restaurant at 60 – 66 Andrew Ave, that the WWMDC require privilege fee of 150 seats \* 35 gpd/seat \* \$65.07/gpd = \$341,617.50 to be paid, that all approvals be obtained by National Development utilizing the application in place, and that operational fees be collected starting on 8 Nov 2017.

Fred: With the additional allocation of design flow, the aggregate Title V design flow for the entire system is about  $77,000 + 5,250 = 82,250$  gpd. If the actual new flow from this restaurant is half the design flow (which is the usual assumption), then the aggregate actual flow will be about 28,000 to 29,000 gpd. This is well below the trigger level of 41,600 gpd designated by the DEP to force us to design a separate leaching field at the Town Building and more design flow could be added in the future. National Development would also like to add 500 gpd for another medical office. In December 2017, we will consider this request.

Fred: Rick requested that WWMDC demonstrate that adding a restaurant with 5,250 gpd of design flow would not cause a legal or engineering predicament. Paul's memo speaks to the engineering aspect that the plant is capable of handling much more flow. Fred's original view point was the WWMDC was tied to the total of 45,000 gpd. There have been two developments in the last couple of years. 1) The DEP sent a letter to the WWMDC with a recent change in regulations allowing WWMDC to be in control of the total use of the system and 2) Paul's comment that

we are so far below the Administrative Consent Order (ACO) trigger for a leaching field, or a new permit, that we can allow a change like the restaurant if the WWMDC deems it appropriate.

Uday: Discussed Paul's memo with Erika and they would like to know how much design flow is left for the vacant space in the Town Center. Uday would like to know what the proposed usage for the vacant space is and he would like to see a projection for the future in writing. Rick agrees. Jane handed out a schedule showing the vacant space and the allocated design flow. An additional 230 gpd should be added to the numbers since the restaurant's design flow of 5,250 gpd is now resulting in the 230 gpd originally allocated to 60-65 Andrew Ave is now unallocated. Erika: Leasing is not a concrete science, flexibility is critical for them to adapt to time sensitive deals. Uday: The Board would like to accommodate you.

Dave: about 20% is vacant in the Town Center. Fred: We are so far below any trigger level, with the addition of this restaurant; we can add it without a global plan in the future. This is a statement that we are eager to make this a viable center. Risk here is very low. Additional actual flow is about 10% of our total and we are 100% below any trigger level.

Linda: In 2013, the ACO assumed that when the trigger occurs that the field adjacent to the Town Building would be used to build a leaching field, but the land is not under the WWMDC control. This was never made clear and has been questioned by others. Linda's familiarity with the property is she is on the Committee for Raytheon Cleanup. Rick: Paul used a 12 month rolling average in item one of his memo and the memo indicates we will not trigger the ACO. Rick would like to see the historic high for the treatment plant flow.

Board discussed that National Development will pay a privilege fee and will now own the 5,250 gpd of design flow. The design flow will be allocated to 60-65 Andrew Avenue. If there is a change of use for this location, then a Connection Application will need to be approved by the WWMDC. Erica: Asked if a change in use occurs, they will need to fill out a new Connection Application. Fred: Yes. Jane: Explained that any changes are subject to the Health Department's final approval and the design flow is associated with the address, which the Building Department includes with their records and application process. Since National Development does not have a restaurant in mind, they can apply for the 150 seats and return to the WWMDC if the amount of seats changes. If National Development pays a Privilege Fee for 150 seats, then they own the design flow. Fred: If you don't find a tenant for 150 seats and you have more capacity than you need, you should be able to use it as you want: WWMDC does not return Privilege Fee payments or design flow. Uday: Asked for a 3-5 year projection on utilizing design flow at the Town Center. Erica: When do you need this additional information? Fred: If you could have your analysis a week before the meeting January meeting.

Fred made a motion that was revised by Rick and Uday. Cherry suggested restating the motion and have it come from one person. Fred: Made a motion to table the motion previously stated. Rick second and Uday agreed. Passed 3-0.

Rick: I move that the WWMDC allow up to an additional 5,250 gallons per day (gpd) of design flow for the anticipated 150 seat restaurant at 60 and 66 Andrew Avenue. The Wastewater Management District Commission (WWMDC) will require a privilege fee equivalent to the design flow, at the standard rate of \$65.07 gpd, for a total of \$341,617.50 to be paid upon completion of the application process. All approvals must be obtained from National Development using the WWMDC's Connection Application process. Further, National Development agrees to return to the board, no later than the January Board Meeting, to present a master plan



covering anticipated future wastewater needs for the Town Center Development. The Privilege Fee and operational fees will be determined as part of the WWMD's approval of the Connection Application. Fred second the motion, Uday agreed. Passed 3-0.

The Privilege Fee and operational fees will be determined as part of the WWMD's approval of the Connection Application, which will indicate the final number of seats requested by National Development, up to 150. Jane will send the motion to Dave Costello along with the Connection Application.

- 8:44 5. Preparation for joint meeting with Board of Public Works concerning need for continued support from Town Engineer, Paul Brinkman on 28 Nov 2017.

Fred: The WWMD should lobby to have Paul Brinkman, Town Engineer, continue to support us. We anticipate 20% of his time and \$25,000 annual interdepartmental payment to the DPW. Uday: Do we need more or less of Paul's time in the future. Linda: Deals with Rivers Edge, working with other Town departments such as the DPW and Health Department are taking up more of his time. Fred: Is \$25,000 per year enough to cover his time working for us. Fred: The Water and Wastewater Department's may be combined in the future. We will still need Paul's wastewater experience if this occurs. Jane will post the agenda for the November 28, 2017 meeting to be held at the DPW building. Jane's attendance is not required.

- 8:55 6. Status of the land and design flow acquisition from Wayland Meadows.

Fred: The Article passed at the 2016 Town Meeting where the Town would take both the design flow and leftover land from the Wayland Meadows Condominium Development. WWMD will receive the 380 gpd of design flow and Wayland Meadows receive the appraised value of the land as a tax deduction. The Lawyers have cleared the title for the land. The acquisition date for the land and design flow is November 17, 2017. WWMD will sign the agreement tonight transferring exactly 380 gpd of design flow to the WWMD. Fred: The land being transferred is located next to the condominiums on River Rock Way and near the treatment plant. The land is an irregular shape and is not billable because it is mostly wetland. There is a separate agreement between WWMD and Board of Selectmen (BoS) where the 380 gpd and the 440 gpd (received from another party) of design flow is allocated to the Library at 5 Concord Road in exchange for a PILOB paid to WWMD by the BoS. All board members signed the agreement. Jane will start charging operations fees to Ben Keefe beginning November 17, 2017.

- 9:03 7. Update from Paul Brinkman below, Town Engineer:

WWMD reviewed the following items and commented on item G:

- A. Tata & Howard is doing the design and engineering for a new water main on Boston Post Road. The project requires a number of borings as part of the design process. Paul completed mark-outs for the proposed borings. 5 were within or near the existing sewer. 4 were not near the existing sewer. The borings were delayed until later this month due to the need to be completed during the overnight hours – a condition of the MassDOT permit.
- B. Status of hiring DigSafe, a company to do mark-outs and system maintenance and a contractor for emergencies. This is awaiting the designation of funds at Special Town Meeting. Paul has been working with the Water Department to get notified of mark-out requests that are requested currently. Once the process is set up Paul can provide interim services for non-emergency mark-out requests.

- C. Treatment Plant Capital Items:
- SCADA System and Security Cameras – Paul met with the SCADA Contractor for the Water Department at the Treatment Plant and he is willing to assist. He received a budget for the work, which was forwarded to the Board. A back-up of the SCADA programming and computer licenses have been received from the equipment manufacturer.
  - HVAC System, PM Filter and Air Valves – The Town HVAC Contractor is to provide a quote for remaining HVAC issues and maintenance on the boiler.
- D. Second Pump Station – Researched the ownership of the property and determined responsible party. Assessor's Office has been called. It is the condo associations' responsibility, to contract with a maintenance company. Seeking advice as to continue the process.
- E. Obtained CADD record drawings from Weston & Sampson for the original sewer system construction. Working with Brendan Decker – Town GIS - to get the information placed in the Town GIS system and better field located to assist with mark-outs.
- F. Met with Wayland Foreign Motors owner regarding the potential connection to the system.
- G. Infiltration/Inflow Control Plan. MassDEP requirement from all sewer system owners due 12/31/17. Requires analysis of flow data and submittal of a plan. There is no waiver allowed.

Jane will ask Paul for an explanation of the Infiltration/Inflow Control Plan.

Linda: The Massachusetts Area Planning Council has information on their website on how other towns run their wastewater system.

9:12

8. Administrative items:

- A. Connection Application – Is for new users entering the system or currently paying for design flow and now requesting a connection or connected users requesting a change in use or connection. The WWMDC decided: When the privilege fee for the design flow is paid, the user now owns the design flow and WWMDC will start charging operational fees. Fred: Change the last bullet point on the application to: "Approval of this application may be rescinded if the Privilege Fee payment is not received within 90 days". This clause was added to accommodate situations such as the 150 seat restaurant in item 4 above where National Development needs approval for the design flow, but the actual amount needed is not known until a tenant has been found.
- B. 25 Lillian Way – (9:43 pm) Connection Application approval - Jane explained Darren's comments (Health Department) that this is an office only and it is not to be used as a bedroom. Fred: Approved the Connection Application and added a comment that no increase in Title V design flow is allowed. Linda: Other Lillian Way condominiums have been advertised as having 3 bedrooms. The Board is aware of this and that the condominiums are deed restricted to two bedrooms.
- C. FY18 Q1 Billing (9:48 pm) mailed October 31, 2017 – The Wayland

Meadows 380 gpd of design flow for 5 Concord Road/Library will begin billing for operational fees on November 17, 2017. Jane will discuss with Finance who will receive the billing. Jane showed a schedule for FY17 to FY18 Q1 of the total revenue billed to users and the gallons per day.

D. Signature on Betterment Apportionment letters – Board signed for this to be billed on the FY18 tax bill.

E. Net DMR Report for November - Uday will be added to the distribution list and Sam Porter will be removed. Paul Brinkman will review the report and Jane will sign and submit to the EPA.

10:10 9. Wastewater Rules and Regulations. Further comments from Rick - No discussion.

10:11 10. Approve minutes from previous meetings–18 Oct 2017.

Rick moved: We approve minutes as recorded. Fred second, passed 2-0. Uday abstained since he was not on the Board.

10:12 11. Pay Bills, monthly budget update, year-to-date finances, and monthly commitments.

WhiteWater's invoice does not include sufficient explanation of charges. Paul Brinkman and Jane have discussed the charges with Joe Malloy and requested more information. Russ Tierney (WhiteWater Northeast Regional Manager) called to say he is working on the backup for the EQ Mixer Invoice. Fred: Motion to approve \$10,850.39, Uday second. All in favor 3-0.

10:20 12. Topics not reasonably anticipated by Chair 48 hours in advance of meeting.

Liens – Board signed the Lien Letter for the FY18 billing. Treasury and the Assessors will do the billing. A final list of names will be run to ensure only the outstanding accounts receive are lien.

Discussion on a Brendon Homes/Twenty Wayland account that is on hold with a balance of approximately \$3,700. After several conversations with Brendon Homes a year ago it was decided Brendon Homes should ask Twenty Wayland to pay the balance since they owned most of the design flow at that time. Uday: Should we write these off? Linda: Should we ask Town Counsel for advice. Jane will summarize the situation for a decision at the December board meeting.

10:22 13. Website status: recent postings and organization.

Jane changed the pdf of Title V Regulations to a direct link.

10:22 14. Calendar: upcoming meetings and events, including hearings.

November 28, 2017 WWMD board meeting with the Board of Public works. Next WWMD board meeting is scheduled for December 13, 2017.

10:22 15. Public Comment

Linda: The Selectmen's website shows Wayland Meadows land.

10:23 16. Adjourn - Uday motion to adjourn, Rick second all in favor 3-0.

Attachments:

Paul Brinkman's Memo

Wayland Meadows Agreement

Connection Application

25 Lillian Way Connection Application

Variance in Billable Revenue FY17–FY18 Q1

Lien Letter

3 Apportionment Letters

October 18, 2017 Draft Minutes

November 7, 2017 Agenda Revised for a signed copy of Paul Brinkman's memo.

Monthly Operation Reports

Agenda

**WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION  
MEETING OF 15 NOVEMBER 2017**

**In Attendance:** Fred Knight, Rick Greene (arrived at 7:40 pm), Uday Virkud and

**Absent:** Jane Capasso (Not required to attend)

**Transcribed By:** Fred Knight

**Guests:** Linda Segal

**Meeting Location:** 7:30 pm Wayland Town Building-Planning Board Office

**DRAFT MINUTES**

*Note: Items may not be discussed in the order listed or at the specific time. Times are approximate.*

7:36 1. Call to order

7:36 2. No Public comment

7:37 3. Discussion on final action with respect to transfer of design flow and land from Wayland Meadows (WM) to Town of Wayland.

In the last substantive discussion back in April 2017, the WWMDC had assumed that the transfers would take place very soon, but legal issues with the land title delayed the transfers to the proposed date of 17 Nov 2017. In order for this to occur, the WWMDC needs to agree that charging for operations from WM will end on 1 April 2017, which is when the WWMDC stopped charging WM. As the transfer documents are now written, this stipulation is assumed. If the charging were to extend to 17 Nov 2017, the extra amount would be \$546.30. However, to change the legal documents would cost this much or more and also further delay the closing, which is necessary for the WWMDC to start charging the Town for the design flow and to obtain the approximately \$50,000 PILOB as stated in Article 19 of the 2016 ATM.

Motion by Fred: The WWMDC stop operations charging to Wayland Meadows for the 380 gpd design flow as of 1 Apr 2017 and start charging the town through the Facilities Department for the 820 gpd design flow for 5 Concord Road on 17 Nov 2017. Second by Rick. Vote 3-0.

7:50 4. Topics not reasonably anticipated by Chair 48 hours in advance of meeting.

Assessor's Office required the Lien and the betterment apportionment letters that were signed on November 8, 2017 be addressed to the Board of Assessors and not Ellen Brideau. The WWMDC resigned the letters.

7:51 5. Calendar: upcoming meetings and events, including hearings. Next meeting is the joint meeting with BPW on 28 Nov 2017 at the DPW building conference room

7:56 6. Public Comment: Linda wants to see more detailed calculations of the Title V design flow for the Town Center. We have the details on which the building-by-building totals are based. I told her to discuss with Jane.

8:00 7. Adjourn

Attachments:  
Lien Letter  
Apportionment Letters  
Agenda

**WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION  
MEETING OF 28 NOVEMBER 2017**

**In Attendance:** Fred Knight, Rick Greene (arrived at 7:40 pm), Uday Virkud and  
**Absent:** Jane Capasso (Not required to attend)  
**Transcribed By:** Fred Knight  
**Guests:** Linda Segal (after DPW meeting). Joint meeting with the Board of Public Works.  
**Meeting Location:** 7:00 pm DPW Building

**DRAFT MINUTES**

*Note: Items may not be discussed in the order listed or at the specific time. Times are approximate.*

- 7:00 1. Call to order
- 7:01 2. Public comment-none
- 7:05 3. Final preparation for joint meeting with BPW. Discussion of what to discuss at the joint meeting, including Paul Brinkman's great help to WWMDC over the past months, possibility of placing WHS treatment plant under the control of WWMDC, and hiring a new employee to oversee both treatment plants
- 7:15 4. Joint meeting with BPW on continuation of support from DPW to WWMDC. This joint meeting was anticipated following a six-month period of support by Paul Brinkman, town engineer, and Tom Holder, DPW Director. The trial period was tremendously helpful to WWMDC, and the WWMDC wants this arrangement to continue. In another forum, some town managers are also considering aiding the wastewater treatment plant at the high school by bringing it under the jurisdiction of the WWMDC instead of the School Department. The proposed solution here is the hiring of a full-time manager for the combined wastewater systems at the high school and in the center of town. Continuing the current arrangement of help to the WWMDC by the town engineer will provide a bridge to this new position who might be hired for FY2019. Discussion at this joint meeting will concern these issues.  
Actual discussion:
- Woody Baston gave an overview of the forum activities to aid the WHS plant by hiring a new oversight manager and operator for both treatment plants.
  - Fred commented on the large utility by Paul Brinkman, both in dealing with Whitewater and with DEP/EPA.
  - Rick seconded Fred's analysis
  - Tom Holder commented that perhaps 20-25% of Paul's time was dealing with wastewater issues over the past 6 months and level of activity varied, with less recently.
  - Uday noted a need to estimate potential savings (Paul is addressing this.) and actual savings, if possible. Tom said Paul was working on this.
  - Tom Abdella noted that this new employee would need transportation and equipment.
  - Uday wondered whether the employee was management or operations.
  - Further discussion of unknown causes of WHS treatment plant problems (Weston & Sampson is addressing this.)
  - Consensus that the WWMDC can continue to rely on Paul's experience and knowledge. Further review of this in May 2018.
  - Also there was a call for further cost analysis for the new employee. There should be another joint meeting in January 2018.
- 7:45 5. Topics not reasonably anticipated by chair 48 hours in advance of the meeting, if any.-None

- 7:50 6. Calendar: upcoming meetings and events, including hearings.  
20 Dec 2017---regular WWMDC meeting  
TBD date, 11-16 Jan 2018 for January meeting, Uday and Rick to say when they are available
- 8:05 7. Public Comment  
Linda: "I commented about the Dec. 5 technical briefing from the Raytheon team, and Virkud indicated he would attend. I also commented on the FinCom budget review schedule if in fact possibly hiring a wastewater manager is on radar screens for the FY19 budget cycle. I asked who your FinCom liaison is (Bill Steinberg) because their budget vetting is fast moving. The school supt. usually presents his proposed budget at a December SC meeting." Uday comments that there is reason for a precautionary approach: wanting to see the long-term cost/benefit of creating a new senior staff position. Linda: "Then there was the consideration of other organizational models, e.g. perhaps something like a water/sewer commission that other towns have."
- 8:12 8. Adjourn
- Attachments: None

WWMDC FY2018 BUDGET

November 7 - December 15, 2017

December, 2017

SUMMARY	ACTUAL YTD		BUDGET YTD		YTD VARIANCE		ANNUAL BUDGET		ANNUAL BUDGET		NOTES	
	\$		\$		\$		\$		\$			
<b>INCOME DETAILS</b>												
User Charges	\$ 110,428.41		\$ 95,560.00		\$ 14,868.41		\$ 191,120		\$ 43,260.33		FY18 Ctr 1 received in November.	
Other	3,976.52		-		3,976.52		-		2,743.65		Pen & Int. Liens, Misc Rev & Int Eamd on Sav's	
Old Betterment - Principal	-		-		-		38,442		-		Betterment Exp. # = Income. Pmts rec'd Feb/May	
Old Betterment - Interest	-		-		-		7,350		-		Betterment Exp. # = Income. Pmts rec'd Feb/May	
New Betterment - Principal	715.78		-		715.78		245,000		-		Betterment Exp. # = Income. Pmts rec'd Feb/May	
New Betterment - Interest	644.20		-		644.20		180,265		-		Betterment Exp. # = Income. Pmts rec'd Feb/May	
Unapp WW Better TC Rev	24,336.52		-		24,336.52		-		-		Unbudgeted Betterments Paid in Advance	
Unapp WW Better TC Int	1,065.63		-		1,065.63		-		-		Unbudgeted Betterments Paid in Advance	
WW Retained Earnings	-		-		-		85,567		(85,567.00)		Nota 1	
Transfers from Capital-Town	49,647.00		-		49,647.00		-		49,647.00		Town P.I.O.B. 380 gpd Des. Flow-Way, Meadows	
<b>Total Income/MUNIS:</b>	<b>\$ 190,915</b>	<b>\$</b>	<b>\$ 95,560</b>	<b>\$</b>	<b>\$ 95,255</b>	<b>\$</b>	<b>\$ 747,744</b>	<b>\$</b>	<b>\$ 85,651</b>	<b>\$ 85,567</b>	<b>\$ 10,084</b>	
<b>EXPENSE DETAILS</b>												
<b>PERSONAL SERVICES</b>												
Salaries (Account Specialist)	13,946.78		14,777.50		830.72		29,555		3,312.62		2,462.92	(849.70)
Indirect/Admin (Town Services)	-		-		-		28,831		-		-	-
Legal Services	-		2,500.00		2,500.00		5,000		-		416.67	416.67
<b>PROFESSIONAL SERVICES</b>												
Facility Operating Contract	23,400.00		23,850.00		450.00		47,700		3,900.00		3,975.00	75.00
Fac. Labor & Other Prof. Serv.	5,066.14		8,213.50		3,147.36		16,427		1,400.00		1,366.92	(31.08)
Engineering Fees	-		-		-		-		-		-	-
NPDES Permit	-		-		-		-		-		-	-
<b>Total Pers. &amp; Prof. Expenses</b>	<b>\$ 42,412.92</b>	<b>\$</b>	<b>\$ 49,341.00</b>	<b>\$</b>	<b>\$ 6,928.08</b>	<b>\$</b>	<b>\$ 127,513</b>	<b>\$</b>	<b>\$ 8,612.62</b>	<b>\$ 8,223.50</b>	<b>\$ (389.12)</b>	
<b>PERCENTS OF TOTAL</b>	<b>38%</b>											
<b>REPAIRS &amp; MAINT EXP.</b>												
Building Repair & Improvement	-		1,000.00		1,000.00		2,000		-		166.67	166.67
Equipment Repairs & Maint.	321.82		3,343.50		3,021.68		6,087		20.54		557.25	536.71
Pipeline Maint/Emergency	-		5,000.00		5,000.00		35,000		-		5,000.00	5,000.00
Sludge Disposal	3,455.00		13,084.00		9,629.00		26,168		2,100.00		2,180.67	80.67
Chemicals	3,093.86		1,393.50		(1,700.36)		2,787		1,538.00		232.25	(1,305.75)
Markup & Other	1,030.60		2,673.00		1,642.40		5,346		548.78		445.50	(103.28)
Surface Water Testing (Oars)	-		-		-		7,066		-		-	-
<b>Total Repairs &amp; Maint Exp.</b>	<b>\$ 7,901.28</b>	<b>\$</b>	<b>\$ 26,494.00</b>	<b>\$</b>	<b>\$ 18,592.72</b>	<b>\$</b>	<b>\$ 85,054</b>	<b>\$</b>	<b>\$ 4,207.32</b>	<b>\$ 5,582.33</b>	<b>\$ 4,375.01</b>	
<b>OPERATING EXPENSES</b>												
Disposal (BP Trucking/Trash)	361.40		534.50		173.10		1,069		95.10		69.08	(6.02)
Natural Gas-NY Ghr & Dir. En.	335.07		1,675.50		1,340.43		3,351		126.13		279.25	153.12
Electricity -Eversource	13,733.09		16,106.00		2,372.91		32,212		2,761.66		2,684.33	(77.33)
Telephone - Verizon	580.00		658.00		78.00		1,316		116.75		109.67	(7.08)
Water -TOW	240.00		486.00		246.00		972		225.00		81.00	(144.00)
Admin Serv's (Other/Vadar Trng)	11.15		100.00		88.85		200		11.15		16.67	5.52
Contingency	-		12,500.00		12,500.00		25,000		-		2,083.33	2,083.33
<b>Total Operating Expenses</b>	<b>\$ 15,260.71</b>	<b>\$</b>	<b>\$ 32,060.00</b>	<b>\$</b>	<b>\$ 16,799.29</b>	<b>\$</b>	<b>\$ 64,120</b>	<b>\$</b>	<b>\$ 3,335.79</b>	<b>\$ 5,343.33</b>	<b>\$ 2,007.54</b>	
<b>Percent of Total</b>	<b>14%</b>											
<b>TOTAL EXPENSES</b>	<b>\$ 65,574.91</b>	<b>\$</b>	<b>\$ 107,895.00</b>	<b>\$</b>	<b>\$ 42,320.09</b>	<b>\$</b>	<b>\$ 276,687</b>	<b>\$</b>	<b>\$ 16,155.73</b>	<b>\$ 22,149.17</b>	<b>\$ 5,993.44</b>	
<b>TOTAL OPER &amp; CAP EXPS</b>												
<b>CAPITAL EXPENSES</b>												
Old Debt-Principal	27,446.99		-		-		38,442		-		-	-
Old Debt-Interest	-		-		-		7,350		-		-	-
New Debt-Principal	-		-		-		245,000		-		-	-
New Debt-Interest	90,132.50		-		-		180,265		-		-	-
<b>Total Capital Expenses:</b>	<b>\$ 117,579.49</b>	<b>\$</b>	<b>\$ -</b>	<b>\$</b>	<b>\$ -</b>	<b>\$</b>	<b>\$ 471,057</b>	<b>\$</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

Paid in August and February  
 Subsidy pays interest in Aug. Payment due Feb.  
 Paid in August and February  
 Paid in August and February

Notes:  
 1. Wastewater Retained Earnings-Current year transfer \$35,000 for pipeline maint/emerg. Account (approved November, 2017 Town Meeting) & \$50,567 overage from FY16 revenue and expenses used to reduce user charges.



FY2018 Cash Receipts YTD

November 7 - December 15, 2017

Revenue Codes	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018
6302 WW User Charges	7/1-7/12/17 \$ 1,048.35	7/1-8/11/17 \$ 31,607.00	8/12-9/25/17 \$ 32,285.73	9/26-10/13/17 \$ 1,680.30	10/14-11/6/17 \$ 547.70	11/7-12/15/17 \$ 43,260.33	0	0	0	0	0	0
63105000/42105												\$ 110,429.41
6308 Penalties & Interest *	\$ 0.17	\$ 9.19	\$ 72.86	\$ 42.20	\$ 3.66	\$ 168.95						\$ 297.03
63105000/41750												
6303 Miscellaneous Rev *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 438.00						\$ 438.00
6310500/43299												
6304 Betterments (Old)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -
63105000/47501												
6305 Betterment Interest (Old)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -
63105000/47502												
6306 Betterments Pd In Adv	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -
63105000/47599												
6307 Int. Earned on Savings *	\$ -	\$ -	\$ 744.25	\$ -	\$ 360.54	\$ 1,234.83						\$ 2,339.62
6310500/48210												
6309 Wastewater Liens *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 901.87						\$ 901.87
63105000/42111												
6311 WW Better TC Rev	\$ 357.89	\$ -	\$ 357.89	\$ -	\$ -	\$ -						\$ 715.78
63105000/47503												
6312 WW Better TC Int	\$ 322.10	\$ -	\$ 322.10	\$ -	\$ -	\$ -						\$ 644.20
63105000/47504												
6313 UNAPP WW Better TC Rev	\$ 21,693.20	\$ -	\$ 2,643.32	\$ -	\$ -	\$ -						\$ 24,336.52
63105000/47505												
6314 UNAPP WW Better TC Int	\$ 950.12	\$ -	\$ 115.51	\$ -	\$ -	\$ -						\$ 1,065.63
63105000/47506												
63 Wastewater Retained Earn's	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -
63105000/48600												
63 Transfers from Capital-Town	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,647.00						\$ 49,647.00
63105000/49740												
49761 Trans from wtr fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -
63105000/49761												
<b>Total Revenue</b>	<b>\$ 24,371.83</b>	<b>\$ 31,616.19</b>	<b>\$ 36,541.66</b>	<b>\$ 1,722.50</b>	<b>\$ 911.90</b>	<b>\$ 95,650.98</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 190,815.06</b>

Notes:  
 - Unapportioned WW Better TC Rev & Int - Betterments paid: 11 Lillian in full and 39 Lillian partial payment  
 - Miscellaneous Revenue 5438 from Wayland Meadows Agreement (November, 2017) to cover Administrative Costs  
 - Wastewater Retained Earnings - New Account: Current Year transfer from Wastewater's Retained Earnings Account (operations only) for \$35,000, approved at November, 2017 Town Meeting. Budgeted amount added 12/7/17 to cover the new pipeline maintenance acc  
 - Transfer from Capital-Town- New account: Paid in Lieu of Betterment \$49,647 from the town for 380 gpd of design flow from the Wayland Meadows Agreement, November, 2017.  
 \* Other for Budget Reporting

Wayland Wastewater Management District Commission										Signed:	
Summary of Utility Bills - FY2018										Munts/Batch:	
November 7 - December 15, 2017											
Vendor#	Vendor Name	Notes	Address	Invoice#	Invoice Date	Amount	WWMDC Acct #	Org#	Object Exp Acct	Description	
2494	B-P Trucking Inc.		P.O. Box 386, Ashland, MA 01721	111276	11/30/2017	\$ 95.10	8670	63443002	52121	Trash Disposal 185 Elissa Ave	
10656	Direct Energy	1	P.O. Box 32179, New York, NY 10087	H57369213	11/17/2017	\$ 48.11	452224/56098	63443002	53102	Gas-185 Elissa Ave	
10656	Direct Energy	1	P.O. Box 32179, New York, NY 10087	H57369218	11/17/2017	\$ 0.71	452224/56105	63443002	53102	Gas-2 Elissa Ave	
3027	EVERSOURCE		1 NSTAR Way, SW300, Westwood, M	28704030031	11/28/2017	\$ 124.72	28704030031	63443002	53103	Electricity-185 Elissa Ave	
3027	EVERSOURCE		1 NSTAR Way, SW300, Westwood, M	28671560010	11/28/2017	\$ 2,636.94	28671560010	63443002	53103	Electricity-185 Elissa Ave	
3805	KP Law		Interoffice Billing				N/A	63443002	52108	Town Counsel	
2759	National Grid		PO Box 11735, Newark, NJ 07101-47	50412-10350	11/16/2017	\$ 65.60	50412-10350	63443002	53102	Gas-185 Elissa Ave	
2759	National Grid		PO Box 11735, Newark, NJ 07101-47	50412-10370	11/16/2017	\$ 11.71	50412-10370	63443002	53102	Gas-2 Elissa Ave	
2271	TOW-Water		66 River Road, Wayland, MA 01778	2601700			2601700	63443002	53105	Water Dept Admin Fee-185 Elissa	
2271	TOW-Water		66 River Road, Wayland, MA 01778	2601700	12/7/2017	\$ 225.00	2601700	63443002	53105	Back Flow Testing-185 Elissa Ave	
2569	VERIZON		PO Box 15124, Albany, NY 12212-512	5083582801	11/18/2017	\$ 67.93	5083582801	63443002	53104	Phone - Pump @ 2 Elissa Ave	
2569	VERIZON		PO Box 15124, Albany, NY 12212-512	5083580192	11/18/2017	\$ 48.82	5083580192	63443002	53104	Phone - 185 Elissa Ave	
2058	WB MASON		59 Centre St, Brockton, MA, Attn: Ga	150278162	12/5/2017	\$ 11.15	C2380305	63443002	52107	Office Supplies (2018 Calendar)	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031163	12/1/2017	\$ 3,900.00	WAY002	63443002	52100	Fac Oper Contract	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031625	11/15/2017	\$ 1,400.00	WAY002	63443002	52101	Facility Labor (Prof. Serv.)	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031625	11/15/2017	\$ 20.54	WAY002	63443002	52116	Equip Repairs & Maint.	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031625	11/15/2017	\$ 2,100.00	WAY002	63443002	52122	Sludge Disposal	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031625	11/15/2017	\$ 1,538.00	WAY002	63443002	52125	Chemicals	
6693	Whitewater		C/O RHW Construc, 41 Central St., Au	70031625	11/15/2017	\$ 548.78	WAY002	63443002	52151	Mark Up on Repairs & Maint.	
	<b>Total</b>		<b>November 7 - December 15, 2017</b>			<b>\$ 12,843.11</b>					
	<b>Total WhiteWater without Contract Fee</b>					<b>\$ 5,607.32</b>					
Notes:											
No Monthly Operating Reports for July, 2017. Reporting was for the prior month. Current month bills had not been received.											
1) Direct Energy changed account number 678961 to 56098 and 678968 to 56105 starting 6/16/17. The prior number is now the Service Loc ID											

WhiteWater Invoices  
Fiscal Year 2018

November 7 - December 15, 2017

Invoice #	Invoice Date	Amount	Month Processed	Contract Fee	Labor	Equip Repairs				Mark Up	Total
						#52101	52116	Sludge	Chemicals		
70028264	7/24/2017	\$ 95.31	June (1)	\$ -	\$ -	\$ 82.88	\$ -	\$ -	\$ 12.43	\$ 95.31	
70028766	8/14/2017	\$ 1,325.00	June (1)	\$ -	\$ 1,050.00	\$ -	\$ 275.00	\$ -	\$ -	\$ 1,325.00	
70027882	7/7/2017	\$ 3,900.00	Aug (2)	\$ 3,900.00						\$ 3,900.00	
70028505	8/1/2017	\$ 3,900.00	Aug	\$ 3,900.00						\$ 3,900.00	
70028766	8/14/2017	\$ 1,752.50	Aug		\$ 672.50		\$ 1,080.00			\$ 1,752.50	
70029205	9/1/2017	\$ 3,900.00	Sep	\$ 3,900.00						\$ 3,900.00	
70029589	9/13/2017	\$ 55.18	Sep			\$ 47.98			\$ 7.20	\$ 55.18	
70029874	10/2/2017	\$ 3,900.00	Oct	\$ 3,900.00						\$ 3,900.00	
70028766	8/14/2017	\$ 203.25	Nov (3)						\$ 203.25	\$ 203.25	
70030547	11/1/2017	\$ 3,900.00	Nov	\$ 3,900.00						\$ 3,900.00	
70030258	10/13/2017	\$ 3,802.72	Nov	\$ 3,802.72	\$ 1,817.50	\$ 170.42		\$ 1,555.86	\$ 258.94	\$ 3,802.72	
70031163	12/1/2017	\$ 3,900.00	Dec	\$ 3,900.00						\$ 3,900.00	
70031625	11/15/2017	\$ 5,607.32	Dec (4)		\$ 1,400.00	\$ 20.54	\$ 2,100.00	\$ 1,538.00	\$ 548.78	\$ 5,607.32	
Totals		\$ 25,313.65		\$ 19,500.00	\$ 2,490.00	\$ 218.40	\$ 1,080.00	\$ 1,555.86	\$ 469.39	\$ 25,313.65	

Current month total without Contract Fee \$ 5,607.32

Notes:

- 1) Invoice #70028766 received with June and July expenses. June was reported on a purchase order for FY17 carryover, booked by Finance in FY18. Invoice #70028264 purchase order for FY17 carryover was booked by Finance in FY18.
- 2) Invoice #70027882 for July Contract Fee. Monthly Operating Reports not done for July.
- 3) Markup not recorded at year-end.
- 4) Invoice #70031058 included an invoice for Raco Alarm Co. Per Joe Malloy, this is no longer functional - deduct \$600 and \$90 for Markup.

**WhiteWater**  
WATER & WASTEWATER SOLUTIONS  
**WORK AUTHORIZATION FORM**

**QUOTE**

Date of Request: December 19, 2017      Site Name: Wayland Commons  
 Requested By: Wade Sinclair      Division Manager: Joe Malloy

**Reasons/Description of Work:**  
Reseal Kaeser Pre-Aeration Blower. Leaking oil

**Parts, Materials and Subcontractors Needed:**

Quantity	Unit	Description	Estimated Cost
		Seal kit, oil, consumables	\$384.00
<b>Estimated Parts &amp; Mat.</b>			<b>\$384.00</b>

**Labor and Equipment:**

Title	Estimated Labor
	\$936.00
<b>Estimated Labor</b>	<b>\$936.00</b>

**ESTIMATED TOTAL OF WORK** \$1,320.00

**CLIENT AUTHORIZATION:**  
*I hereby authorize the work described above and acknowledge that the parts, materials, and labor described above are estimated cost only. I understand that WWI will advise me of the final costs as soon as they are known if the final costs exceed the estimate by greater than 20%.*

**CLIENT PURCHASE ORDER # ISSUED**

Authorized By: \_\_\_\_\_  
Print Name Signature

Date: \_\_\_\_\_ *Please return via fax to (508) 248-2895*

**WhiteWater**  
WATER & WASTEWATER SOLUTIONS  
**WORK AUTHORIZATION FORM**

**QUOTE**

Date of Request: December 19, 2017      Site Name: Wayland Commons  
 Requested By: Wade Sinclair      Division Manager: Joe Malloy

**Reasons/Description of Work:**  
 Reseal Kaeser Membrane Blower. Leaking oil

**Parts, Materials and Subcontractors Needed:**

Quantity	Unit	Description	Estimated Cost
		Seal kit, oil, consumables	\$384.00
<b>Estimated Parts &amp; Mat.</b>			<b>\$384.00</b>

**Labor and Equipment:**

Title	Estimated Labor
	\$936.00
<b>Estimated Labor</b>	<b>\$936.00</b>

**ESTIMATED TOTAL OF WORK** **\$1,320.00**

**CLIENT AUTHORIZATION:**  
 I hereby authorize the work described above and acknowledge that the parts, materials, and labor described above are estimated cost only. I understand that WWI will advise me of the final costs as soon as they are known if the final costs exceed the estimate by greater than 20%.

**CLIENT PURCHASE ORDER # ISSUED**

Authorized By: \_\_\_\_\_  
Print Name Signature

Date: \_\_\_\_\_ *Please return via fax to (508) 248-2895*



**FOR THE ASSABET SUDBURY & CONCORD RIVERS**

23 Bradford Street · Concord, MA 01742

978 · 369 · 3956

office@oars3rivers.org

www.oars3rivers.org

December 19, 2017

Fred Knight, Chairman  
Wayland Wastewater Management District Commission  
Wayland DPW Building  
66 River Road  
Wayland, MA 01778

Attention: Jane Capasso, Account Specialist

Dear Mr. Knight,

Below is the budget for the continuation of Water Quality Monitoring (WQM) of the Sudbury River for the ninth year, covering the period January 1-December 31, 2018. While every effort has been made to estimate costs accurately, billing will reflect actual costs incurred. The monitoring covered under this budget conforms with the Settlement Agreement for the Town of Wayland regarding compliance with NPDES Permit No. MA 0039853.

<b>Lower Sudbury River Water Quality Sampling: Wayland Project Budget</b>	
<b>Analysis Costs</b>	Annual Cost
Summer sampling analysis cost (4 sites, 1 QC sample, five months)	\$3,425
Meter rental (1 meter for five months)	\$500
Meter maintenance and additional calibration supplies	\$100
<b>Total Analysis</b>	<b>\$4,025</b>
<b>Travel</b>	
Chlorophyll sampling run mileage (175 miles)	\$95
<b>Total Travel</b>	<b>\$95</b>
<b>Personnel Costs</b>	
Staff Scientist	\$1,740
<b>Total Personnel</b>	<b>\$1,740</b>
Office overhead (20% of project total)	\$1,465
<b>Project annual costs</b>	<b>\$7,325</b>

We will be happy to provide any documentation you may require regarding lab fees.

Please confirm by January 31 that these terms are accepted by the Town, and don't hesitate to call if you have any questions.

Sincerely,

Alison Field-Juma  
Executive Director

RECEIVED

DEC 22 2017

Wayland Wastewater  
Management District

1/16/18 emailed to office@Oars  
3rivers.org

OARS Inc

23 Bradford St.  
Concord, MA 01742

# Invoice

Date	Invoice #
12/19/2017	168

Bill To
Fred Knight WWMDC Wayland DPW Building 66 River Road Wayland, MA 01778

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
	Water Quality Monitoring in 2017: Payroll Wages (January 1 - December 1, 2017)	1,702.00	1,702.00
	Water Quality Lab Fees	3,400.00	3,400.00
	Meter Rental	500.00	500.00
	Meter Maintenance	187.00	187.00
	Travel (mileage)	99.00	99.00
	Project Overhead	1,178.00	1,178.00
<i>1/16/18 sent to Accts Payable</i>			
		<b>Total</b>	<b>\$7,066.00</b>



**FOR THE ASSABET SUDBURY & CONCORD RIVERS**

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December 19, 2017

Fred Knight, Chairman  
Wayland Wastewater Management District Commission  
Wayland DPW Building  
66 River Road  
Wayland, MA 01778

Attention: Jane Capasso, Account Specialist

Dear Mr. Knight,

Enclosed are the *preliminary* field data results from water quality sampling in 2017; sampling dates for Wayland sites include: May 21<sup>st</sup>, June 18<sup>th</sup>, July 16<sup>th</sup>, Aug 20<sup>th</sup> and Sept 17<sup>th</sup>.

The Town of Wayland's Sudbury River sites are:

- SUD-064, Sudbury River at Sherman Bridge Road
- SUD-086, Sudbury River at River Road
- SUD-096, Sudbury River at Route 20
- HBS-016, Hop Brook (Wash Brook) at Landham Road

We will send you the final data report for 2017 as soon as it is available in the spring 2018.

Please contact me with any questions or if you would like a hard copy of this data report.

Sincerely,

A handwritten signature in black ink that reads "Suzanne H. Flint". The signature is written in a cursive, flowing style.

Suzanne Flint  
Staff Scientist





## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
ABT-026	Rte 2, Concord	5/21/2017	6:20 AM	8	0.05	0.01	0.5	0.14
ABT-077	Rte 27/USGS, Maynard	5/21/2017	7:50 AM	5	0.05	0.02	0.55	0.17
ABT-301	Rte 9, Westboro	5/21/2017	7:32 AM	3	0.05	0.02	2.6	< 0.1
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	2	0.02	< 0.01	< 0.05	0.11
CND-009	Rogers St, Lowell	5/21/2017	7:05 AM	6	0.07	< 0.01	0.26	0.14
CND-161	Lowell Rd bridge, Concord	5/21/2017	6:50 AM	16	0.08	< 0.01	< 0.05	0.13
SUD-005	Rte 62 Boat House, Concord	5/21/2017	6:00 AM	7	0.04	< 0.01	< 0.05	0.15
SUD-064	Sherman Br Rd, Wayland	5/21/2017	6:09 AM	14	0.05	< 0.01	< 0.05	0.12
SUD-086	River Rd, Wayland	5/21/2017	6:34 AM	4	0.04	< 0.01	0.07	< 0.1
SUD-096	Rte 20, Wayland	5/21/2017	6:54 AM	6	0.04	< 0.01	0.1	< 0.1
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM	3	0.02	< 0.01	0.23	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	16	0.08	0.02	2.6	0.17
Minimum	2	0.02	< 0.01	< 0.05	< 0.1

Tributary Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
DAN-013	Danforth Br, Hudson	5/21/2017	6:35 AM	2	0.04	< 0.01	< 0.05	0.1
ELZ-004	Elizabeth Br, Stow	5/21/2017	7:38 AM	4	0.03	< 0.01	0.08	0.16
HBS-016	Hop Br, Sudbury	5/21/2017	7:14 AM	5	0.05	0.01	0.33	< 0.1
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	4	0.04	< 0.01	0.27	0.11
NSH-002	Nashoba, Commonwealth, W. Con	5/21/2017	7:40 AM	2	0.04	< 0.01	1.1	0.13
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	4	0.04	< 0.01	0.17	0.15
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	5	0.03	< 0.01	0.1	< 0.1
RVM-005	River Mead, Thomdike, Lowell	5/21/2017	7:35 AM	3	0.04	< 0.01	0.13	0.21

### Summary Statistics for Tributary Sites

Maximum	5	0.05	0.01	1.1	0.21
Minimum	2	0.03	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	5/21/2017	6:20 AM	19.95	85.4	7.76	520	7.39
ABT-301	Rte 9, Westboro	5/21/2017	7:32 AM	15.69	84.1	8.34	474	7.30
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	18.17	91.1	8.58	260	7.37
CND-009	Rogers St, Lowell	5/21/2017	7:05 AM	20.06	86.5	7.84	536	6.95
CND-161	Lowell Rd bridge, Concord	5/21/2017	6:50 AM	21.15	76.5	6.79	562	7.22
SUD-005	Rte 62 Boat House, Concord	5/21/2017	6:00 AM	21.33	71.3	6.30	571	6.77
SUD-064	Sherman Br Rd, Wayland	5/21/2017	6:09 AM	20.71	50.80	4.54	601	6.92
SUD-086	River Rd, Wayland	5/21/2017	6:34 AM	20.19	56.20	5.10	611	6.84
SUD-096	Rte 20, Wayland	5/21/2017	6:54 AM	19.62	60.40	5.53	602	6.87
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM	18.78	93.7	8.71	662	7.06

### Summary Statistics for Mainstem Sites

Maximum	21.33	93.7	8.71	662	7.39
Minimum	15.69	50.8	4.54	260	6.77

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
HBS-016	Hop Br, Sudbury	5/21/2017	7:14 AM	16.75	35.40	3.43	499	6.85
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	15.55	104.4	10.38	649	7.30
NSH-002	Nashoba, Commonwealth, W. Concor	5/21/2017	7:40 AM	19.50	82.1	7.53	489	7.11
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	17.44	83.5	7.98	555	7.14
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	13.64	88.0	9.14	212	7.18
RVM-005	River Mead, Thorndike, Lowell	5/21/2017	7:35 AM	17.09	89.6	8.63	659	6.84

### Summary Statistics for Tributary Sites

Maximum	19.50	104.4	10.38	659	7.30
Minimum	13.64	35.4	3.43	212	6.84

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	<b>Location</b>	<b>Date</b>	<b>Time</b>	<b>Gage Reading (ft)</b>	<b>Streamflow (cfs)</b>
ABT-077	Rte 27/USGS, Maynard	5/21/2017	7:50 AM	2.69	232
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	1.66	11.97
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM		121

<b>Tributary</b>	<b>Location</b>	<b>Date</b>	<b>Time</b>	<b>Gage Reading (ft)</b>	<b>Streamflow (cfs)</b>
DAN-013	Danforth Br, Hudson	5/21/2017	6:35 AM	1.22	6.79
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	4.55	10.35
NSH-002	Nashoba, Commonwealth, W. Conc	5/21/2017	7:40 AM	1.81	95
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	3.90	15.0
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	4.96	34

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)	
ABT-026	Rte 2, Concord	6/18/2017	6:25 AM	6	0.02	0.02	0.78	0.19	
ABT-062	Rte 62, Acton	6/18/2017	6:25 AM	3	0.02	0.02	0.96	0.18	
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	5	0.04	0.02	0.94	0.19	
ABT-144	Rte 62, Stow	6/18/2017	6:40 AM	4	0.02	0.02	1.3	0.2	
ABT-237	Robin Hill Rd, Marlboro	6/18/2017	7:00 AM	4	< 0.01	< 0.01	1.5	0.15	
ABT-301	Rte 9, Westboro	6/18/2017	8:10 AM	4	< 0.01	< 0.01	2.5	0.17	
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	2	< 0.01	< 0.01	< 0.05	0.13	
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	6	0.04	0.02	0.32	0.2	
CND-045	Lowell St, Billerica	6/18/2017	7:21 AM	4	0.04	0.02	0.22	0.19	
CND-110	Rte 225, Bedford	6/18/2017	6:42 AM	4	0.04	0.02	0.30	0.21	
CND-161	Lowell Rd bridge, Concord	6/18/2017	6:50 AM	30	0.05	0.04	< 0.05	0.24	
SUD-005	Rte 62 Boat House, Concord	6/18/2017	6:11 AM	5	0.06	0.03	< 0.05	0.24	
SUD-064	Sherman Br Rd, Wayland	6/18/2017	6:05 AM	4	0.05	0.04	0.06	0.28	
SUD-086	River Rd, Wayland	6/18/2017	6:25 AM	10	0.13	0.03	0.1	0.26	
SUD-096	Rte 20, Wayland	6/18/2017	6:43 AM	4	0.03	0.03	0.12	0.22	
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM	2	< 0.01	< 0.01	0.17	0.16	
<b>Summary Statistics for Mainstem Sites</b>									
				<b>Maximum</b>	30	0.13	0.04	2.5	0.28
				<b>Minimum</b>	2	< 0.01	< 0.01	< 0.05	0.13

OARS

na = not assessed; nr = not reported

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
DAN-013	Danforth Br, Hudson	6/18/2017	7:06 AM	4	< 0.01	< 0.01	< 0.05	0.19
ELZ-004	Elizabeth Br, Stow	6/18/2017	7:30 AM	2	< 0.01	< 0.01	0.11	0.15
HBS-016	Hop Br, Sudbury	6/18/2017	7:02 AM	2	0.05	0.04	< 0.05	0.19
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	2	< 0.01	< 0.01	0.23	0.18
NSH-002	Nashoba, Commonwealth, W. Con	6/18/2017	7:44 AM	4	0.04	< 0.01	0.25	0.21
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	6	0.03	0.01	0.19	0.24
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	2	< 0.01	< 0.01	0.08	0.13
RVM-005	River Mead, Thomdike, Lowell	6/18/2017	8:07 AM	8	0.03	0.01	0.17	0.27

### Summary Statistics for Tributary Sites

Maximum	8	0.05	0.04	0.25	0.27
Minimum	2	< 0.01	< 0.01	< 0.05	0.13

OARS

na = not assessed; nr = not reported

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	6/18/2017	6:25 AM	20.73	90.1	8.06	598	7.35
ABT-062	Rte 62, Acton	6/18/2017	6:00 AM	20.96	101.8	9.06	630	7.40
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	20.97	93.3	8.31	581	6.82
ABT-144	Rte 62, Stow	6/18/2017	6:40 AM	19.04	97.7	9.04	582	6.88
ABT-162	Cox St, Hudson	6/18/2017	6:23 AM	18.83	91.2	8.47	576	6.83
ABT-237	Robin Hill Rd, Marlboro	6/18/2017	7:00 AM	18.34	84.1	7.85	673	7.17
ABT-301	Rte 9, Westboro	6/18/2017	8:10 AM	20.00	84.1	7.63	754	7.18
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	21.89	92.9	8.13	262	7.35
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	21.86	83.5	7.32	590	6.99
CND-045	Lowell St, Billerica	6/18/2017	7:21 AM	22.43	83.0	7.21	567	6.97
CND-110	Rte 225, Bedford	6/18/2017	6:42 AM	21.87	49.2	4.31	566	6.88
CND-161	Lowell Rd bridge, Concord	6/18/2017	6:50 AM	21.94	33.6	2.92	595	7.20
SUD-005	Rte 62 Boat House, Concord	6/18/2017	6:11 AM	22.10	28.2	2.46	577	6.80
SUD-064	Sherman Br Rd, Wayland	6/18/2017	6:05 AM	20.82	25.4	2.27	566	6.67
SUD-086	River Rd, Wayland	6/18/2017	6:25 AM	20.51	36.9	3.33	543	6.69
SUD-096	Rte 20, Wayland	6/18/2017	6:43 AM	20.4	44.3	4.00	529	6.68
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM	20.94	98.6	8.81	590	7.01

### Summary Statistics for Mainstem Sites

Maximum	22.43	101.8	9.06	754	7.40
Minimum	18.34	25.4	2.27	262	6.67

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	6/18/2017	7:06 AM	18.72	97.5	9.09	224	6.95
ELZ-004	Elizabeth Br, Stow	6/18/2017	7:30 AM	19.84	67.2	6.12	371	6.73
HBS-016	Hop Br, Sudbury	6/18/2017	7:02 AM	19.44	23.9	2.20	455	6.60
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	17.73	75.1	7.13	594	6.88
NSH-002	Nashoba, Commonwealth, W. Concor	6/18/2017	7:44 AM	19.94	81.0	7.35	536	7.02
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	18.19	76.1	7.16	569	6.77
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	17.62	88.8	8.46	216	7.28
RVM-005	River Mead, Thorndike, Lowell	6/18/2017	8:07 AM	18.90	92.4	8.58	665	6.92

### Summary Statistics for Tributary Sites

Maximum	19.94	97.5	9.09	665	7.28
Minimum	17.62	23.9	2.20	216	6.60



## Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	2.65	216
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	1.54	7.69
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	5.49	712
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM		143
Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	6/18/2017	7:06 AM	1.38	12.13
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	4.62	12.48
NSH-002	Nashoba, Commonwealth, W. Conc	6/18/2017	7:44 AM	1.52	65.56
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	4.15	25.0
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	5.05	38.5

**Sudbury, Assabet and Concord Rivers Water Quality  
Data Report - Laboratory Analysis of Chlorophyll a**

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	6/20/2017	9:58 AM	3.03
SUD-064	Sherman Br Rd, Wayland	6/20/2017	1:36 PM	NA
SUD-086	River Rd, Wayland	6/20/2017	10:25 AM	4.57
SUD-096	Rte 20, Wayland	6/20/2017	10:53 AM	<2.00
SUD-144	Sudbury Landing, Framingham	6/20/2017	11:35 AM	<2.00

**Summary Statistics for Mainstem Sites**

Maximum	4.57
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	6/20/2017	11:09 AM	<2.00

**Summary Statistics for Tributary Sites**

Maximum	<2.00
Minimum	<2.00

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## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
ABT-026	Rte 2, Concord	7/16/2017	6:19 AM	3	0.06	0.01	0.4	< 0.1
ABT-062	Rte 62, Acton	7/16/2017	5:54 AM	3	0.05	< 0.01	1	< 0.1
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	5	0.06	< 0.01	0.82	< 0.1
ABT-144	Rte 62, Stow	7/16/2017	8:10 AM	1	0.06	0.02	3.1	0.15
ABT-237	Robin Hill Rd, Marlboro	7/16/2017	7:50 AM	3	0.03	< 0.01	3.9	0.16
ABT-301	Rte 9, Westboro	7/16/2017	7:05 AM	1	0.03	< 0.01	6.9	0.16
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	1	0.02	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	4	0.05	0.01	0.45	0.1
CND-045	Lowell St, Billerica	7/16/2017	6:55 AM	4	0.05	< 0.01	0.34	< 0.1
CND-110	Rte 225, Bedford	7/16/2017	6:25 AM	4	0.07	0.02	0.33	0.13
CND-161	Lowell Rd bridge, Concord	7/16/2017	6:44 AM	15	0.1	0.01	0.26	0.14
SUD-005	Rte 62 Boat House, Concord	7/16/2017	6:00 AM	6	0.08	0.02	0.07	0.17
SUD-064	Sherman Br Rd, Wayland	7/16/2017	6:04 AM	5	0.06	0.02	0.1	0.18
SUD-086	River Rd, Wayland	7/16/2017	6:19 AM	2	0.05	0.02	0.12	0.17
SUD-096	Rte 20, Wayland	7/16/2017	6:32 AM	6	0.06	0.03	0.12	0.12
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	<1	0.03	< 0.01	0.17	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	15	0.1	0.03	6.9	0.18
Minimum	<1	0.02	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
DAN-013	Danforth Br, Hudson	7/16/2017	6:25 AM	7	0.06	0.01	0.1	< 0.1
ELZ-004	Elizabeth Br, Stow	7/16/2017	7:30 AM	1	0.04	< 0.01	0.12	0.16
HBS-016	Hop Br, Sudbury	7/16/2017	6:54 AM	2	0.14	0.04	0.08	< 0.1
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	1	0.03	0.02	0.25	0.12
NSH-002	Nashoba, Commonwealth, W. Con	7/16/2017	7:44 AM	2	0.07	0.02	0.13	0.12
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	3	0.08	0.02	0.11	0.12
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	2	0.02	< 0.01	0.19	< 0.1
RVM-005	River Mead, Thorndike, Lowell	7/16/2017	7:35 AM	4	0.05	0.02	0.14	< 0.1

### Summary Statistics for Tributary Sites

Maximum	7	0.14	0.04	0.25	0.16
Minimum	1	0.02	< 0.01	0.08	< 0.1

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	7/16/2017	6:19 AM	20.86	82.7	7.38	584	7.47
ABT-062	Rte 62, Acton	7/16/2017	5:54 AM	22.35	101.7	8.81	767	7.83
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	21.91	100.5	8.78	724	7.54
ABT-095	White Pond Rd, Stow	7/16/2017	7:50 AM	21.04	69.3	6.16	739	7.05
ABT-134	Sudbury Rd, Stow	7/16/2017	7:08 AM	21.55	94.8	8.34	828	7.39
ABT-144	Rte 62, Stow	7/16/2017	8:10 AM	21.40	96.9	8.55	854	7.42
ABT-162	Cox St, Hudson	7/16/2017	6:47 AM	20.19	82.6	7.47	822	7.25
ABT-237	Robin Hill Rd, Marlboro	7/16/2017	7:50 AM	19.42	76.7	7.03	855	7.25
ABT-301	Rte 9, Westboro	7/16/2017	7:05 AM	20.11	74.9	6.79	992	7.19
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	22.60	82.2	7.10	287	7.38
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	21.89	85.2	7.46	558	6.75
CND-045	Lowell St, Billerica	7/16/2017	6:55 AM	22.07	84.3	7.34	530	6.67
CND-110	Rte 225, Bedford	7/16/2017	6:25 AM	21.53	65.0	5.78	540	6.68
CND-161	Lowell Rd bridge, Concord	7/16/2017	6:44 AM	21.78	70.8	6.19	580	7.24
SUD-005	Rte 62 Boat House, Concord	7/16/2017	6:00 AM	22.90	46.3	3.98	592	6.57
SUD-064	Sherman Br Rd, Wayland	7/16/2017	6:04 AM	21.73	48.3	4.24	611	7.44
SUD-086	River Rd, Wayland	7/16/2017	6:19 AM	21.33	53.40	4.70	613	7.25
SUD-096	Rte 20, Wayland	7/16/2017	6:32 AM	21.08	56.7	5.03	600	7.19
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	20.82	87.0	7.77	870	7.21

### Summary Statistics for Mainstem Sites

Maximum	22.90	101.7	8.81	992	7.83
Minimum	19.42	46.3	3.98	287	6.57

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	7/16/2017	6:25 AM	19.29	88.0	8.11	256	7.44
ELZ-004	Elizabeth Br, Stow	7/16/2017	7:30 AM	20.07	52.1	4.70	411	6.75
HBS-016	Hop Br, Sudbury	7/16/2017	6:54 AM	19.56	17.4	1.58	527	7.05
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	19.56	82.9	7.58	738	7.16
NSH-002	Nashoba, Commonwealth, W. Concor	7/16/2017	7:44 AM	20.09	77.9	7.06	411	6.86
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	19.07	72.6	6.72	463	6.75
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	18.94	80.7	7.49	270	7.29
RVM-005	River Mead, Thomdike, Lowell	7/16/2017	7:35 AM	20.67	88.3	7.91	588	6.73

### Summary Statistics for Tributary Sites

Maximum	20.67	88.3	8.11	738	7.44
Minimum	18.94	17.4	1.58	256	6.73

## Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	1.94	80.7
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	1.28	1.87
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	5.07	465
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	4.73	51.9

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	7/16/2017	6:25 AM	NA	NA
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	4.24	3.87
NSH-002	Nashoba, Commonwealth, W. Conc	7/16/2017	7:44 AM	NA	NA
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	4.10	24.1
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	4.23	6.8

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	7/19/2017	10:15 AM	12.2
SUD-064	Sherman Br Rd, Wayland	7/19/2017	10:38 AM	<2.00
SUD-086	River Rd, Wayland	7/19/2017	10:54 AM	3.52
SUD-096	Rte 20, Wayland	7/19/2017	11:10 AM	3.93
SUD-144	Sudbury Landing, Framingham	7/19/2017	11:20 AM	4.49

### Summary Statistics for Mainstem Sites

Maximum	12.2
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	7/19/2017	11:20 AM	4.57

### Summary Statistics for Tributary Sites

Maximum	4.57
Minimum	4.57

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## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
ABT-026	Rte 2, Concord	8/20/2017	6:20 AM	<1	< 0.01	< 0.01	0.66	0.19
ABT-062	Rte 62, Acton	8/20/2017	6:00 AM	2	0.06	< 0.01	0.92	0.19
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	<1	< 0.01	< 0.01	0.91	< 0.1
ABT-144	Rte 62, Stow	8/20/2017	7:10 AM	1	< 0.01	< 0.01	3.7	< 0.1
ABT-237	Robin Hill Rd, Marlboro	8/20/2017	8:05 AM	2	< 0.01	< 0.01	6.2	0.33
ABT-301	Rte 9, Westboro	8/20/2017	7:14 AM	<1	< 0.01	< 0.01	9.8	< 0.1
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	14	< 0.01	< 0.01	0.24	0.18
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	8	< 0.01	< 0.01	0.84	0.19
CND-045	Lowell St, Billerica	8/20/2017	7:05 AM	3	< 0.01	< 0.01	0.26	0.23
CND-110	Rte 225, Bedford	8/20/2017	6:33 AM	4	< 0.01	< 0.01	0.39	0.15
CND-161	Lowell Rd bridge, Concord	8/20/2017	6:40 AM	3	0.02	< 0.01	0.45	0.2
SUD-005	Rte 62 Boat House, Concord	8/20/2017	6:10 AM	8	< 0.01	< 0.01	< 0.05	0.18
SUD-064	Sherman Br Rd, Wayland	8/20/2017	6:07 AM	9	0.03	< 0.01	0.08	0.2
SUD-086	River Rd, Wayland	8/20/2017	6:30 AM	4	0.04	0.02	0.15	0.23
SUD-096	Rte 20, Wayland	8/20/2017	6:51 AM	5	0.04	0.02	0.15	0.24
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	2	0.11	< 0.01	0.23	0.13

### Summary Statistics for Mainstem Sites

Maximum	14	0.11	0.02	9.8	0.33
Minimum	<1	< 0.01	< 0.01	< 0.05	< 0.1

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary Site Number	Location	Date	Time	TSS (mg/L)	TP (mg/L)	ortho - P (mg/L)	NO3 (mg/L)	NH3 (mg/L)
DAN-013	Danforth Br, Hudson	8/20/2017	6:25 AM	81	0.1	< 0.01	0.12	< 0.1
ELZ-004	Elizabeth Br, Stow	8/20/2017	7:50 AM	2	< 0.01	< 0.01	0.13	< 0.1
HBS-016	Hop Br, Sudbury	8/20/2017	7:08 AM	5	0.05	0.04	0.44	0.19
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	2	< 0.01	< 0.01	< 0.05	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	8/20/2017	7:45 AM	1	0.02	< 0.01	0.14	0.18
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	2	0.02	< 0.01	0.11	0.18
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	2	< 0.01	< 0.01	0.2	0.13
RVM-005	River Mead, Thomdike, Lowell	8/20/2017	7:45 AM	9	< 0.01	< 0.01	0.28	0.33

### Summary Statistics for Tributary Sites

Maximum	81	0.1	0.04	0.44	0.33
Minimum	1	< 0.01	< 0.01	< 0.05	< 0.1

OARS

na = not assessed, nr = not reported

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	8/20/2017	6:20 AM	22.68	69.0	5.94	766	7.56
ABT-062	Rte 62, Acton	8/20/2017	6:00 AM	24.53	90.5	7.53	808	7.76
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	23.83	88.4	7.44	784	7.57
ABT-095	White Pond Rd, Stow	8/20/2017	8:05 AM	24.32	95.4	7.98	835	7.35
ABT-134	Sudbury Rd, Stow	8/20/2017	7:23 AM	24.60	90.3	7.54	1028	7.59
ABT-144	Rte 62, Stow	8/20/2017	7:10 AM	23.67	90.9	7.77	1044	7.48
ABT-162	Cox St, Hudson	8/20/2017	6:53 AM	23.10	51.2	4.38	1029	7.26
ABT-237	Robin Hill Rd, Marlboro	8/20/2017	8:05 AM	20.28	69.2	5.85	1078	7.37
ABT-301	Rte 9, Westboro	8/20/2017	7:14 AM	21.53	82.4	7.23	1299	7.20
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	20.12	88.0	7.97	346	7.89
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	23.63	92.6	7.83	708	7.45
CND-045	Lowell St, Billerica	8/20/2017	7:05 AM	24.31	83.9	7.01	616	7.34
CND-110	Rte 225, Bedford	8/20/2017	6:33 AM	24.19	85.4	7.15	653	7.34
CND-161	Lowell Rd bridge, Concord	8/20/2017	6:40 AM	23.86	77.0	6.48	724	7.41
SUD-005	Rte 62 Boat House, Concord	8/20/2017	6:10 AM	20.08	60.1	5.05	627	7.22
SUD-064	Sherman Br Rd, Wayland	8/20/2017	6:07 AM	21.18	63.3	5.35	725	7.51
SUD-086	River Rd, Wayland	8/20/2017	6:30 AM	23.97	53.3	4.48	695	7.34
SUD-096	Rte 20, Wayland	8/20/2017	6:51 AM	22.93	43.9	3.74	662	7.24
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	21.60	66.3	5.82	1035	7.16

### Summary Statistics for Mainstem Sites

Maximum	24.60	95.4	7.98	1299	7.89
Minimum	20.08	43.9	3.74	346	7.16

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	8/20/2017	6:25 AM	20.28	88.7	8.02	258	7.59
ELZ-004	Elizabeth Br, Stow	8/20/2017	7:50 AM	21.82	40.4	3.54	423	7.31
HBS-016	Hop Br, Sudbury	8/20/2017	7:08 AM	21.57	31.6	2.82	598	7.20
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	22.70	81.9	6.90	1057	7.04
NSH-002	Nashoba, Commonwealth, W. Concor	8/20/2017	7:45 AM	22.21	61.6	5.35	642	7.22
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	21.06	67.8	6.03	790	7.11
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	20.91	77.7	6.93	309	7.34
RVM-005	River Mead, Thorndike, Lowell	8/20/2017	7:45 AM	21.07	78.4	6.96	1040	7.8

### Summary Statistics for Tributary Sites

Maximum	22.70	88.7	8.02	1057	7.59
Minimum	20.28	31.6	2.82	258	7.00

## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	8/18/2017	9:35 AM	11.9
SUD-064	Sherman Br Rd, Wayland	8/18/2017	9:55 AM	5.48
SUD-086	River Rd, Wayland	8/18/2017	10:06 AM	3.84
SUD-096	Rte 20, Wayland	8/18/2017	10:14 AM	3.90
SUD-144	Sudbury Landing, Framingham	8/18/2017	10:38 AM	<2.00

### Summary Statistics for Mainstem Sites

Maximum	11.9
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	8/18/2017	10:22 AM	2.60

### Summary Statistics for Tributary Sites

Maximum	2.6
Minimum	2.6

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## Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	9/17/2017	6:20 AM	4	0.01	< 0.01	1.8	< 0.1
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	2	0.02	< 0.01	1.7	< 0.1
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	<1	0.03	< 0.01	0.19	< 0.1
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	2	< 0.01	< 0.01	1.4	< 0.1
CND-161	Lowell Rd bridge, Concord	9/17/2017	6:55 AM	26	0.01	< 0.01	1.1	< 0.1
SUD-005	Rte 62 Boat House, Concord	9/17/2017	7:01 AM	9	0.03	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	9/17/2017	6:37 AM	8	0.04	< 0.01	0.08	< 0.1
SUD-086	River Rd, Wayland	9/17/2017	7:08 AM	13	0.03	< 0.01	0.12	0.11
SUD-096	Rte 20, Wayland	9/17/2017	7:28 AM	5	0.03	0.02	0.13	< 0.1
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	<1	< 0.01	< 0.01	0.08	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	26	0.04	0.02	1.8	0.11
Minimum	<1	< 0.01	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	9/17/2017	7:00 AM	1	0.02	< 0.01	0.15	< 0.1
ELZ-004	Elizabeth Br, Stow	9/17/2017	8:05 AM	36	0.05	< 0.01	0.13	< 0.1
HBS-016	Hop Br, Sudbury	9/17/2017	7:50 AM	2	0.04	0.03	0.34	< 0.1
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	9/17/2017	7:50 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	2	< 0.01	< 0.01	< 0.05	< 0.1
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	2	< 0.01	< 0.01	0.15	< 0.1
RVM-005	River Mead, Thorndike, Lowell	9/17/2017	8:27 AM	30	0.03	< 0.01	0.17	0.15

### Summary Statistics for Tributary Sites

Maximum	36	0.05	0.03	0.34	0.15
Minimum	<1	< 0.01	< 0.01	< 0.05	< 0.1

OARS

na = not assessed, nr = not reported

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	9/17/2017	6:20 AM	20.73	66.6	5.96	785	7.57
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	22.00	84.4	7.38	752	7.85
ABT-095	White Pond Rd, Stow	9/17/2017	8:19 AM	19.74	81.3	7.43	652	7.46
ABT-134	Sudbury Rd, Stow	9/17/2017	7:45 AM	23.16	99.9	8.54	947	7.77
ABT-162	Cox St, Hudson	9/17/2017	7:25 AM	21.28	67.8	6.01	1067	7.46
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	18.47	90.4	8.47	368	7.45
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	21.79	90.4	7.92	806	7.49
CND-161	Lowell Rd bridge, Concord	9/17/2017	6:55 AM	21.99	79.6	6.95	748	7.61
SUD-005	Rte 62 Boat House, Concord	9/17/2017	7:01 AM	22.36	78.2	6.77	647	7.21
SUD-064	Sheman Br Rd, Wayland	9/17/2017	6:37 AM	22.73	61.6	5.30	706	7.16
SUD-086	River Rd, Wayland	9/17/2017	7:28 AM	22.06	53.2	4.64	650	7.13
SUD-096	Rte 20, Wayland	9/17/2017	7:28 AM	21.73	56.8	4.97	668	7.09
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	20.84	85.1	7.60	710	7.18

### Summary Statistics for Mainstem Sites

Maximum	23.16	99.9	8.54	1067	7.85
Minimum	18.47	53.2	4.64	368	7.09

## Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	9/17/2017	7:00 AM	18.08	79.5	753	214	7.37
ELZ-004	Elizabeth Br, Stow	9/17/2017	8:05 AM	20.34	44.9	4.06	389	6.82
HBS-016	Hop Br, Sudbury	9/17/2017	7:50 AM	19.74	56.9	5.16	629	7.11
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	21.16	86.6	7.68	794	7.13
NSH-002	Nashoba, Commonwealth, W. Concor	9/17/2017	7:50 AM	20.84	76.9	6.87	659	7.47
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	20.10	73.6	6.66	758	7.43
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	20.17	89.5	8.12	310	7.10
RVM-005	River Mead, Thomdike, Lowell	9/17/2017	8:27 AM	19.75	90.1	8.22	955	7.07

### Summary Statistics for Tributary Sites

Maximum	21.16	90.1	753.00	955	7.47
Minimum	18.08	44.9	4.06	214	6.82



## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	<b>Location</b>	<b>Date</b>	<b>Time</b>	<b>Gage Reading (ft)</b>	<b>Streamflow (cfs)</b>
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	1.45	30.5
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	0.99	0.14
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	4.04	95.2
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	3.99	6.15

<b>Tributary</b>	<b>Location</b>	<b>Date</b>	<b>Time</b>	<b>Gage Reading (ft)</b>	<b>Streamflow (cfs)</b>
DAN-013	Danforth Br, Hudson	8/20/2017	6:25 AM	0.64	0.317
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	3.87	0.88
NSH-002	Nashoba, Commonwealth, W. Conc	8/20/2017	7:45 AM	0.86	15.83
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	3.00	1.38
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	4.04	2.3

## Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	1.52	35.9
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	0.99	0.14
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	4.09	106
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	4.09	10.4

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	9/17/2017	7:00 AM	0.52	0.11
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	3.92	1.1
NSH-002	Nashoba, Commonwealth, W. Conc	9/17/2017	7:50 AM	0.77	11.52
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	3.11	2.80
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	4.03	2.1

**TOWN OF WAYLAND - TOWN CLERK'S OFFICE**  
**NOTICE OF MEETINGS OF TOWN BOARDS/COMMITTEES/COMMISSIONS**

Posted in accordance with the provisions of the Open Meeting Law

NAME OF BOARD/COMM: Wayland Wastewater Management District Commission

FILED By: Jane Capasso

DATE OF MEETING: Wednesday, 20 Dec 2017

TIME OF MEETING: 7:30 PM

PLACE OF MEETING: Wayland Town Building

**PROPOSED AGENDA**

*Note: Items may not be discussed in the order listed or at the specific time. Times are approximate.*

- 7:30      1. Call to order
- 7:31      2. Public comment
- 7:35      3. Board discussion on 317 Boston Post Road, Katz Properties, plans and connection application.
- 7:45      4. Katz Properties to present their plan for the plaza at 317 Boston Post Road and a connection application for more design flow.
- 8:05      5. Update on the status of the proposal to fund a new full-time position to oversee the operation of the two treatment plants in Wayland, the one for WWMD and the one at the Wayland High School. Paul Brinkman presented potential savings in a position paper. The WWMD and BOPW had a joint meeting on 28 Nov 2017. Uday attended last week's BOPW meeting to hear further discussion. The WWMD will discuss this proposal in preparation for a January 2018 joint meeting of the BOPW and WWMD.
- 8:25      6. Final preparation for National Development to present long-term plans for Town Center at the January 2018 WWMD meeting. The WWMD approved additional design flow for a 150-seat restaurant at the Town Center with the caveat that National Development provide a long-term plan for other requests for additional design flow.
- 8:35      7. Status of finding contractors to provide emergency response, preventative maintenance and DigSafe functions.
- 8:40      8. Status of the land and design flow acquisition from Wayland Meadows.
- 8:45      9. Updates from Paul Brinkman, Town Engineer are in blue:
- A. **New:** 231 BPR Manhole Repair – Tom Holder, Joe Doucette and Paul Brinkman are asking for the board's approval to facilitate the repair. Attached memo explains the repair. Board to sign approval letter.
  - B. Infiltration/Inflow Control Plan. MassDEP requirement from all sewer system owners due 12/31/17. Requires analysis of flow data and submittal of a plan. There is no waiver allowed. [Catalogued flow of historic flow information, effluent discharge volumes and water use by sewer users.](#)
  - C. Meeting with Uday on Cost Analysis to for the addition of a Wastewater Operations Manager position. [E-mail information contains back up details.](#)
  - D. Tata & Howard is doing the design and engineering for a new water main on Boston Post Road. The project requires a number of borings as part of the design process. Paul completed mark-outs for the proposed borings and met with

the boring contractor prior to the work starting. 5 were within or near the existing sewer. 4 were not near the existing sewer. [The borings were complete without incident.](#)

- E. Second Pump Station – Researched the ownership of the property and determined responsible party. Assessor's Office has been called. It is the condo associations' responsibility, and have a contact for them. [Seeking advice from Commission as to continue the process.](#)

No Update on the following:

- F. Status of hiring DigSafe, a company to do mark-outs and system maintenance and a contractor for emergencies. This is awaiting the designation of funds at Special Town Meeting. Paul has been working with the Water Department to get notified of mark-out requests that are requested currently. Once the process is set up Paul can provide interim services for non-emergency mark-out requests. No Update.
- G. Treatment Plant Capital Items:
- SCADA System and Security Cameras – Paul met with the SCADA Contractor for the Water Department at the Treatment Plant and he is willing to assist. He received a budget for the work, which was forwarded to the Board. A back-up of the SCADA programming and computer licenses have been received from the equipment manufacturer. No update.
  - HVAC System, PM Filter and Air Valves – The Town HVAC Contractor is to provide a quote for remaining HVAC issues and maintenance on the boiler. No update.
- H. Obtained CADD record drawings from Weston & Sampson for the original sewer system construction. Working with Brendan Decker – Town GIS - to get the information placed in the Town GIS system and better field located to assist with mark-outs. No update.
- I. Met with Wayland Foreign Motors owner regarding the potential connection to the system. No update.

9:00

10. Administrative items:

- A. Connection Application - Approve changes.
- B. Treatment Plant RFP – Paul Brinkman will start in February preparing a combined RFP with the WWMD and High School treatment plants. The current WhiteWater contract ends 10/15/18.
- C. Rate Hearing Dates: What month should we do the rate hearing? The notice needs to be in the Wayland Town Crier 30 days in advance of the meeting. In FY17 the add was placed in the paper on January 26, 2017 and the meeting was March 1, 2017.
- D. 21 Lillian Way Connection Application – Board review and procedure question: Since there is no change in design flow, does the Health Department have to wait for the WWMD to sign the connection application?
- E. Changes to Contact and Emergency Updates.

F. WWMDC Treatment Plant Catch Basin Mowing – Joe Malloy said this should have been done and he hopes, weather permitting, to have it cleaned out the week of December 18, 2017.

- 9:15 11. Wastewater Rules and Regulations – Further comments from Rick
- 9:17 12. Approve minutes from previous meetings– 8, 15 and 28 Nov 2017.
- 9:27 13. Pay Bills, monthly budget update, year-to-date finances, and monthly commitments.
- 9:37 14. Topics not reasonably anticipated by Chair 48 hours in advance of meeting.
- 9:40 15. Website status: recent postings and organization.
- 9:40 16. Calendar: upcoming meetings and events, including hearings.
- 9:42 17. Public Comment
- 9:45 18. Adjourn