#### TOWN OF WAYLAND NOTICE OF MEETING

Clifford Lewis, Chair Mike Wegerbauer, Vice Chair Sherre Greenbaum Michael Lowery Bob Goldsmith

Posted in accordance with the provisions of the Open Meeting Law www.mass.gov/ago/openmeeting

NAME OF BOARD:

**BOARD OF PUBLIC WORKS** 

DATE OF MEETING:

JULY 13, 2021 7:00 PM

TIME OF MEETING: PLACE OF MEETING:

TOWN BUILDING (HYBRID - Council on Aging)

41 Cochituate Road, Wayland, MA 01778

#### **AGENDA**

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

This meeting of the Wayland Board of Public Works will be held in person at the location provided on this notice. Members of the public are welcome to attend this in-person meeting. Please note that while an option for remote attendance and/or participation is being provided as a courtesy to the public, the meeting will not be suspended or terminated if technology problems interrupt the virtual broadcast, unless otherwise required by law. Members of the public with particular interest in any specific item on this agenda should make plans for in-person vs. virtual attendance accordingly. In compliance with the revised Open Meeting Law requirements, we will live stream the meeting via Zoom as well as WayCam. The Zoom meeting can be entered using the following link:

#### https://zoom.us/j/98442984645?pwd=ajNsUXJoZzdBMVJRMmloV1A3ZHErUT09 PW: 438508

In addition to being live streamed, WayCam will record the meeting and this recording will be made available to the public as soon after the meeting as is practicable.

To make a public comment via Zoom, perform a virtual "hand raise". The meeting moderator will contact you via a chat message to acknowledge your request and will inform the chair of your request to comment. Instructions for performing a virtual "hand raise" can be found at https://support.zoom.us/hc/en-us/articles/205566129-Raising-your-hand-ln-a-webinar

Everyone in attendance should adhere the MA Department of Public Health's May 29 Mask Advisory that advises all unvaccinated residents to continue to wear masks in indoor settings and if attendees cannot socially distance: https://www.mass.gov/info-details/covid-19-mask-requirements#effective-may-29:-updated-mask-requirements

| 7:00 | Meeting Information, Remote Roll Call & Announcements                              |
|------|--|
| 7:05 | Public Comment   |
| 7:10 | Irrigation Application   |
| 7:20 | Water Rates Presentation – Paul Brinkman   |
| 7:30 | Water Rates Discussion   |
| 7:50 | Kleinfelder Study Presentation and Recommendation – Bob Goldsmith                  |
| 7:55 | Kleinfelder Study Discussion   |
| 8:00 | BoPW Rules and Regulation Compliance and Reporting Presentation – Sherre Greenbaum |
| 8:10 | BoPW Rules and Regulation Compliance and Reporting Discussion                      |



| 8:15 | PFAS Update and Milestones Presentation – Mike Wegerbauer                         |
|------|---|
| 8:20 | PFAS Update and Milestones Discussion   |
| 8:30 | Director's Operational Report   |
| 8:40 | May Financials  |
| 8:45 | Board Members' Reports, Concerns and Updates                                      |
| 8:55 | Topics Not Reasonably Anticipated by the Chair 48 Hours Prior to Posting, if any  |
| 9:00 | Review and Approve Minutes of the 6/08/2021 Meeting (Martin) and 6/14/2021 (Lewis |
| 9:05 | Future Meeting Dates  |
| 9:10 | Adjourn   |

NOTE: Per changes to the Open Meeting Law, notice of any meeting of a public body shall include "A listing of topics that the chair reasonably anticipates will be discussed at the meeting". AG's Office guidelines state that the list of topics shall have sufficient specificity to reasonably advise the public of the issue to be discussed. Please list those topics on the above agenda

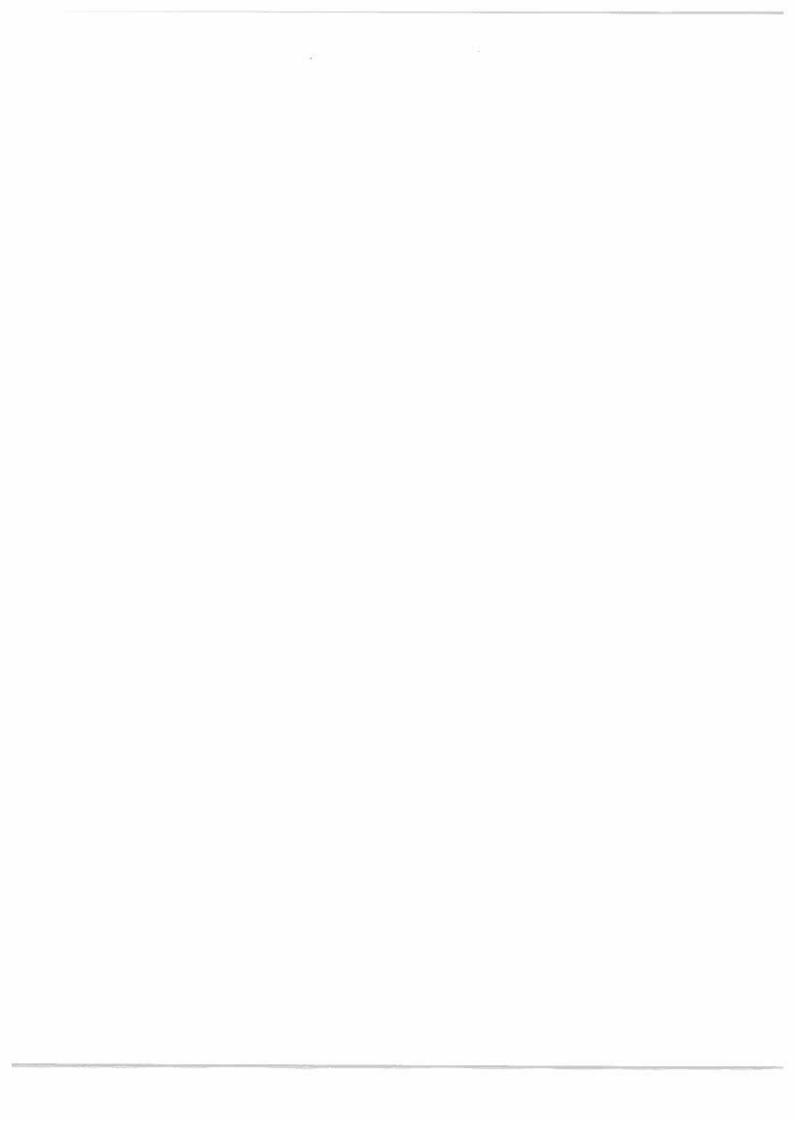
### Meeting Information, Remote Roll Call,

& Announcements

### **Public Comment**



### **Irrigation Application**





### **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 Engineer

Application & Agreement for the Installation of an Underground Irrigation System as
Governed by Town Bylaw Chapter 191

|                    | complete and sign all sections of this application and review the attached into concerning Irrigation Systems. | Bylaw and guidance |
|--------------------|--|--------------------|
| Location           | 778 deconde > TI 1 = 111A  |                    |
| Address            | 72 Sedge meadow Rd   | 1655               |
| Phone &            | email: 508-308-4328 / bart@bactnewl  | and con            |
|                    | n Installer: Gary Fiel kowsky  |                    |
| Address<br>Phone 8 | email: 67-969-2335 / nfd gricikousky. Com  |                    |
|                    | Irrigation Application Checklist   |                    |
|                    | All of the following items must be checked prior to permit   | submittal          |
| SE                 | Plumbing Permit attached  Plumbing Permit # 1720200191   |                    |
| 9                  | Device Design Data Sheet completed for Backflow Device Installation  | V                  |
|                    | Irrigation Plan Requirements   |                    |
|                    | "CAD" style Irrigation plan overlaid on the Parcel Plan (must be to scale, see attached)                       |                    |
|                    | Calculated irrigation area shown on the Irrigation Plan  |                    |
|                    | Location of the entire Septic System Identified on Plan  | <u> </u>           |
|                    | Irrigation System is not within 25' of any component of Septic System  |                    |
| •                  | Vegetated Wetlands shown on Plan (if any)  |                    |
| 50                 | Irrigation System is not within 50' of vegetated wetlands  |                    |
| 2                  | Location of Town Right of Way shown on Plan  |                    |

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

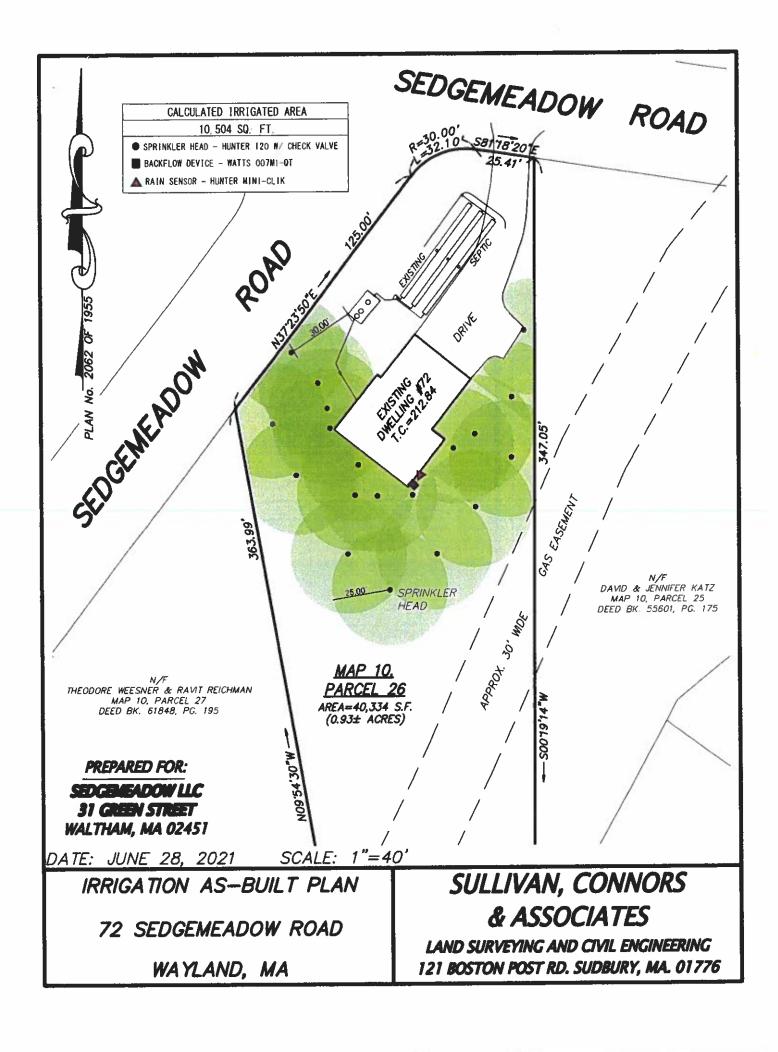
DPW FACILITY | 66 RIVER ROAD | WAYLAND MASSACHUSETTS 01778 | TEL 508 358-3672



| Backflow preventer location and specifications identified on Plan  | <u> </u>  |
|--|---|
| Rain Gauge location and specifications identified on Plan  |   |
| I/we understand and agree that the Town of Wayland does not gupressure or uninterrupted service, and that the Town reserves the during dry seasons or under any emergency condition. Also, I/we Prevention Device associated with this Irrigation System must be to or Water Division's Backflow Testing Contractor. The Backflow Decowner of the Irrigation System. | right to restrict the use of water understand that the Backflow tested annually by the Water Division |
| Owner Signature:   | ate: 6/29/2   |
| Installer Signature: Pralkousky D  | rate: 6/39/31   |
| Irrigation Installer must contact the Water Division for Inspection approval of system.  | and Initial Backflow test prior to final  |
| CON INTERNAL MES CANA  |   |
| FOR INTERNAL USE ONLY  |   |
| Approval Process  Completed Application Packet submitted to DPW Office for Review  | (Signature and Date)  |
| For Applications under 5,000 sq. ft., DPW Director Approval is required.   | (Signature and date)  |
| For Applications over 5,000 sq. ft., DPW Board Approval is required.   | (Signature and Date)  |
| Inspection of the installed Irrigation System.   | (Signature and Date)  |

No portion of the irrigation system is installed within the Town Right of Way







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| \$   | MASSACHUSETTS UNIFORM APPLICATION FOR A PERMIT TO PERFORM PLUMBING WORK              |             |        |  |                               |             |        |            |              |            |              |               |          |                |        |               |         |
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| OWNER ADDRESS TEL FAX  |  |             |        |  |                               |             |        |            |              |            |              |               |          |                |        |               |         |
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| FIXTURES 1   | FLOOR⊸   | BSMIT       | 1      | 2  | 3                             | 4           | 5      | 6          | 7            | 8 .        | 9            | 10            | 11       | 12             | 13     | 14            |         |
| BATHTUB  |  |             |        | 3  |                               |             |        |            |              |            |              |               |          |                |        |               |         |
| CROSS CONNEC   |  | 2.          |        | -  |                               |             |        |            |              |            |              |               |          |                |        |               |         |
|  | CIAL WASTE SYS   |             |        | -  |                               |             |        |            |              |            |              | <del></del>   |          |                |        |               |         |
| DEDICATED GAS  |  |             |        |  |                               |             |        |            |              |            |              |               |          |                |        | <del>  </del> |         |
| DEDICATE GRAY  |  |             |        |  | <del>  </del> -               |             |        |            |              |            |              |               |          |                |        |               |         |
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| DRINKING FOUN  |  |             |        | <del> </del>                                     |                               |             |        |            |              |            |              |               |          | <u> </u>       |        | -             |         |
| DISHWASHER   | (IWI)  |             |        |  | <del>  -</del>                |             |        |            |              |            |              | <b></b>       |          |                |        |               | í       |
| FOOD DISPOSE   | Ř  |             | -      | 1  |                               |             |        |            |              |            | <u> </u>     |               |          |                |        |               |         |
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| INTERCEPTOR (  |  |             |        |  |                               |             |        |            |              | 01.1       | <del> </del> | 1 <del></del> | >-       |                |        |               |         |
| KITCHEN SINK   |  |             |        |  |                               |             | ROJ    | GH.DAT     | ç            |            | INSPE(       | TOO           |          |                | ļ      |               |         |
| LAVATORY   |  | 1           | 1      | 4  |                               |             |        |            | 11           | ,          | mor co       | TUK_          |          |                |        |               |         |
| ROOF DRAIN   |  |             |        |  |                               |             | FIN    | L DAT      | 0//          | 72         | HSPE         | 700           | 0.       | 5              |        |               |         |
| SHOWER STALL   |  | 1           |        |  |                               |             |        |            | 7            | 7          | morts        | TUK           |          |                | 12/    |               |         |
| SERVICE / MOP  | SINK   |             | }      |  |                               |             |        |            |              |            |              |               |          |                |        |               |         |
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| WATER PIPING   |  | ļ           |        | -  |                               |             |        |            |              |            |              |               |          | <del>[</del> - | ,      | 100           |         |
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| I have a curren  | it <u>liability</u> insurance poli   | cy or its   | s subs |  |                               |             |        |            | e requi      | rement     | s of M       | GL Ch.        | 142.     | Yest           | No     |               |         |
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| IF YOU CHECK   | KED YES, PLEASE INC  | JUATE       | I HE I | TPEO   | of COVE                       | RAGE        | = BY C | HECK       | JNG 11       | HE API     | PROPI        | GAIL          | ROX 8    | ELOM           | p      |               |         |
| LIABILE  | TY INSURANCE POLIC   | Y □         |        | OT   | HER TY                        | PE OI       | FINDE  | MNIT       | Y 🔲          |            | 1            | BOND          |          |                |        |               |         |
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| Massachusett   | is General Laws, and t   | hat my s    | signat | ure on   | this per                      | mit a       | pplica | ion w      | alves t      | his rec    | ulrem        | ent.          | ,        |                |        |               | 8       |
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| Signature of O   | wher or Owner's Agent  |             |        | L  | CHECK                         | JUE 6       | OX O   | NLT:       | OWNE         | K LIP      | P            | GENI          | ليا      |                |        |               |         |
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Offsenant Bittel "MASS GOVIN "



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|  | MASSA  | MASSACHUSETTS UNIFORM APPLICATION FOR A PERMIT TO PERFORM GAS FITTING WORK |                          |  |                              |                     |  |  |                        |                         |                |                    |                                  |                           |                      |           |
|--|--|--|--------------------------|--|------------------------------|---------------------|--|--|------------------------|-------------------------|----------------|--------------------|----------------------------------|---------------------------|----------------------|-----------|
|  | CITY:  | ayl  | ana                      | d  |                              |                     | _MA.                                     | DATE   | . 9                    | -22                     | -20            | •                  | PERMI                            | т#Се                      | 2021                 | 0016      |
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| hereby certify the<br>Chawledge and<br>Provision of the                  | that all plumbing<br>Massachusetts S                               | work and in<br>tate Plumbi   | istalization<br>ing Code | s perfo<br>and Ch                                | rmed un<br>apter 14          | der the<br>2 of the | permit is<br>Genera                      | isued fo   | r this ap              | plication               | re true i      | and acc<br>in comp | urete to<br>plance<br>NATUR      | the bes<br>with all f     | t of my<br>Portinent | ~_        |
| hereby certify the<br>knowledge and<br>provision of the<br>PLUMBER/GA    | that all plumbing<br>Massachusetts S<br>SFITTER NAME:              | work and in<br>tale Plumbi<br>Pau  | istaliation<br>ing Code  | is perfor<br>and Ch<br>21/14                     | rmed un<br>apter 14          | der the<br>2 of the | permit is<br>Genera<br>_ LICE            | isued fo<br>Lews.<br>ISE#_   | r this ap              | g —                     | will be        | in comp<br>SIG     | NATUF                            | with all f<br>LE/         | t of my<br>Portinent | ~_        |
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## TOWN OF WAYLAND DEPARTMENT of PUBLIC WORKS WATER DIVISION

66 RIVER ROAD WAYLAND, MASSACHUSETTS 01778

BACKFLOW DEVICE DESIGN DATA AND PLUMBING PLAN

#### MUST BE SUBMITTED PRIOR TO INSTALLATION

#### SUBMIT COMPLETED FORM TO:

TOWN OF WAYLAND – DEPARTMENT OF PUBLIC WORKS
WATER DIVISION
66 RIVER ROAD
WAYLAND, MA 01778

| PROPERTY OWN         | ER INFORMATI         | ON:              |                       |             |              |
|----------------------|----------------------|------------------|-----------------------|-------------|--------------|
|                      |                      |                  |                       |             |              |
| Bart Newland         |                      |                  |                       |             |              |
| Owner                |                      |                  |                       |             |              |
| 72 Sedgemeadow R     | d                    |                  |                       |             |              |
| Street Address       |                      |                  |                       |             | 0.1.770      |
| Wayland              |                      |                  | <u> </u>              |             | 01778        |
| City                 |                      | S                | ate                   |             | Zip Code     |
| FACILITY INFOR       | MATION:              |                  |                       |             |              |
| Facility Name        |                      |                  |                       |             |              |
| Street Address       |                      |                  |                       |             |              |
| City                 | _                    | S                | tate                  |             | Zip Code     |
| Contact Person       |                      | 1                | -mail                 |             | Phone Number |
|                      | 21                   |                  | 281                   |             |              |
| Is this Facility:    | [] New               | or               | [ ] Existing          | (check one) |              |
| Describe the type of | of business or activ | vities carried o | out at this facility: |             |              |
|                      |                      |                  |                       | P           | ů,           |
|                      |                      |                  |                       |             |              |



| o-p               | as-built   |  |                   |                              |   |
|-------------------|--|--|-------------------|------------------------------|---|
| xact Dev          | ice Location 800M  |  | 1"                | Cold                         |   |
| lake              | Mode   | el   | Size              | Hot or Cold V                | Vater Unit                              |
| ype of G          | ate Valve  |  |                   | <u> </u>                     | -                                       |
| RPBP              | []DCVA   | [X] PVB                                    | By-pass /         | Arrangement [] Yes           | s [X] No                                |
| rom wha           | t type of contamina  | tion is the water supp                     | ly protected?     | S                            |   |
| BOSS C            | ONNIECTION DE A  | N SUBMITTAL RE                             | OLIBEMENTS        | The second second            |   |
| KO35 C            | UNINECTION FLA   | IN SOBWITTAL RE                            | QOIREMENTS        | * 1867 SC 10 KG 15 SC 1665 W | Total Supplied Cheron-                  |
| C                 | ompleted Device De   | esign Data Sheet                           |                   |                              |   |
| So                | chematic or blueprin   | nt of plumbing system                      | n (at least 8 ½") | x 11") detailing:            |   |
| a.                |  | pstream & downstrea                        |                   | es                           |   |
| b                 |  | , size and alignment of                    |                   |                              |   |
| d.                | Location of p  | otable / non-potable oce, or equipment fed | water tines       | device complete wit          | h information on                        |
| u.                | the secondary  | system (operating p                        | ressure, chemic   | al treatment, ect.)          | ., .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| e.                | Add devices  | must be installed in a                     | ccordance with    | 310 CMR 22.22                |   |
|                   |  |  |                   |                              |   |
|                   |  |  |                   |                              |   |
|                   |  |  |                   |                              |   |
|                   |  | nly for approval of a                      |                   | ce installation. All         | other permits                           |
| nust be a         | equired by the res   | pective town offices.                      | •                 |                              |   |
| eff Capell        | o Concept Building.  | Inc.                                       |                   |                              |   |
| ubmitted          | The state of the s |  |                   |                              |   |
|                   | t., Waltham, MA 024  | 151  |                   |                              |   |
| Address           | 1  | info a concepthuild                        | is time cours     | 781-703-5970                 |   |
| 7/08/2021<br>Date |  | E-mail                                     |                   | Phone   Fax Number:          | 5                                       |
|                   |  |  |                   |                              |   |
|                   |  |  |                   |                              |   |
| 2020019           | g Permit #   |  |                   |                              |   |



**Water Rates** 

**Presentation and Discussion** 



**Kleinfelder Study** 

**Presentation and Recommendations** 

**Discussion** 



# **BoPW Rules and Regulation Compliance**and Reporting

**Presentation and Discussion** 



**PFAS Update and Milestones** 

**Presentation and Discussion** 



**Director's Operational Report** 



#### DPW Director's Report July 13, 2021

### <u>Director's Project Update</u> (Director to Provide Update at Meeting)

- AMI Project Update
- Sedgemeadow Road Water Main Update

#### **Engineering Division**

#### **Town Engineer:**

- Bridge project coordination. Old Sudbury Road bidding support.
- Preparation for rate setting water and wastewater.
- River's Edge sewer system connection design coordination.
- WWMDC support for O&M Agreement.
- Alta at River's Edge project management-construction details.

#### GIS Coordinator:

- MS4 Outfalls Data/Drainage research, field checks and data entry into GIS
- Sidewalks/Trails in the Dudley Point area-Field Check & Data Attribute entry into GIS
- Re-Precinct Map for Town Clerk
- 2021 Parcels Review for Assessor database. Documented proof of findings, using Deed-referenced Book/Page from Registry of Deeds.
- MS4 Conservation Inspection Form
- Maps & Plans for Planning Department

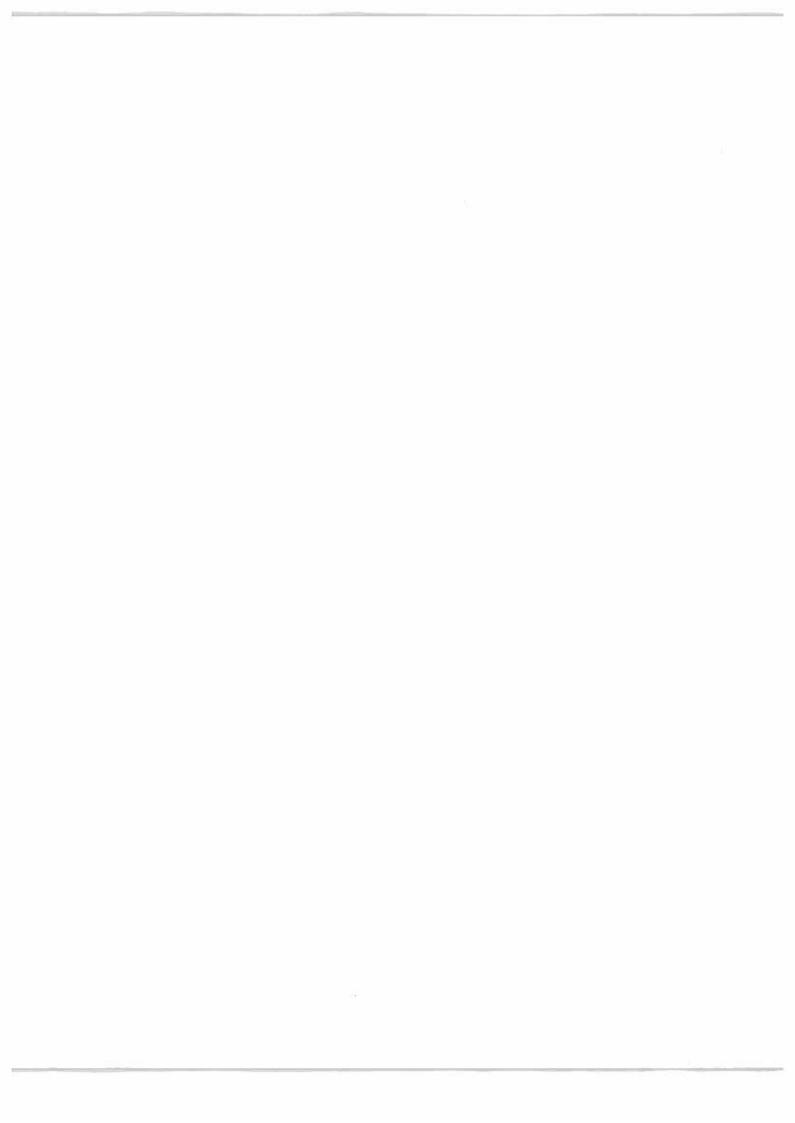
#### **Town Surveyor:**

- 1. Stonebridge Road Bridge project assistance
- 2. Mark out various playfields around town
- 3. Plan-Storage Management
- 4. Assist residents/engineers/surveyors with plans and locating bounds
- 5. Locate trees for DPW

#### Water Division

#### Treatment:

- Performed monthly calibrations on all chemical pumps (stations and plant)
- Performed monthly Treatment Plant and Station Maintenance.
- Calibrated and performed maintenance on Ozone and Chlorine Analyzers
- Routine Monthly Water Sampling
- Monthly PFAS sampling completed
- Baldwin Pond Wells 1 & 2 were cleaned and rehabilitated. Both wells are now pumping at the designed capacity.
- Tank cleaning at Baldwin Pond Plant completed.
- Performed preventative maintenance on suction floats in all 3 Backwash Tanks while they were drained



- Membrane replacement completed on Skid 1 in Plant
- Skid 2 taken offline due to multiple membrane failures.
- Bid opening for Skid 2 membrane replacement 7/6/21.

### Distribution:

- Completed daily work orders and dig safes
- Distribution staff have been mostly assisting with PFAS and Treatment related activities

### **Highway & Park Division**

- Finished Road Reconstruction, Millbrook Road, Michael Road, Nob Hill Road, and Brackett Road
- Preparation for Road Reconstruction, Alden Road, Hobbs Road, Cabot Road, and Brewster Road
- Finished grounds maintenance at High School for Graduation ceremonies
- Assist Water Division with water service break and treatment plant maintenance
- 8 Burial internments
- 6 Catch basin repairs
- Repair water leak Lakeview Cemetery
- Refurbish/Repair Loker Green Sign
- 7 Call-ins due to fallen trees
- · Assist Water division with preparation of area for treatment trailer

### **Transfer Station**

- Sticker sales underway, currently 841 sold
- Wood/Brush pile has been removed
- Give and Take area re-opened



**May Financials** 



|  |              |  |                        | T  | TOW          | N OF WAYLAND DEPARTMENT OF PUBLIC WORKS                     | IND DEPART   | FMENT O   | F PUBLIC                                  | 8                 | RKS   |  |  |  |  |
|--|--------------|--|------------------------|--|--------------|---|--|---|---|-------------------|---|--|--|--|--|
|  |              |  |                        |  | FY23         | FY21-YEAR TO DATE OPERATING BUDGET SUMMARY AS OF 5/ 31/2021 | PERATING BUDG  | ET SUMMAR   | V AS OF 5/31                              | /202              |   |  |  |  |  |
| Program percentage - 92%   |              | BUDGET   | YEAR                   | YEAR-TO-DATE   | ENCU         | ENCUMBRANCES<br>BALANCE                                     | BUDGET   | YTD % used  | % used with encumb.                       |                   | FY2020  | FY2019   | A FY2018   | ACTUAL EXPENSES  | FY2016   |
| HIGHWAY SALARIES SERVICE EXPENSES GOODS EXPENSES FY21 TOTAL  | ~ ~ ~ ~      | 1,032,100,00<br>\$11,300,00<br>151,500,00  | ~ ~ ~ ~                | 841,093.58<br>244,360.45<br>55,703.67<br>1,141,157.70  | ~ ~ <b>~</b> | 5<br>158,652.73 \$<br>17,066,28 \$<br>175,719.01 \$         |  |   | 81.5%<br>78.8%<br>48.0%<br>77.7%          | ννν <b>γ</b><br>π | 953,712.00<br>281,619.00<br>111,302.00<br>1,346,633.00                          | \$1,007,074.82<br>\$514,528.85<br>\$140,839.50<br>\$1,662,443.17                     | \$993,042.81<br>\$462,611,14<br>\$92,252.51<br>\$1,547,906.46                        | \$939,665.56<br>\$228,709.27<br>\$81,463.56<br>\$1,249,838.39                        | \$851,281.48<br>\$254,814,72<br>\$73,263.51<br>\$1,179,359.71                        |
| HIGHWAY-SNOW  OVERTIME SERVICE & GOODS EXPENSES FY21 TOTAL   | ~ ~ <b>~</b> | 175,000.00<br>325,000.00<br><b>500,000.0</b>   | ~ ~ <b>~</b>           | 149,832.06<br>334,276.44<br>484,108.50   | . v. v.      | 21,524.26 \$  | \$ 25,167.94<br>\$ (30,800.70)<br>\$ (5,632.76)  | 85 62%<br>3) 102.85%<br>6) 96.82%                               | 85.6%<br>109.5%<br>101.1%                 | N N N             | 126,464 00<br>282,535 00<br>408,999.00  | \$168,415,59<br>\$390,402,70<br>\$558,818.29   | \$207,581,41<br>\$522,549,00<br>\$730,130.41   | \$176,405.70<br>\$585,000,00<br>\$761,405.70   | \$96,602.26<br>\$331,104,92<br>\$427,707,18  |
| IRANSFER STATION SALARIES SERVICE & GOODS EXPENSES FY21 TOTAL TRANSFER STATION REVENUE REV/EXP BALANCE //-                     | ~ ~ ~ ~      | 186,150.00<br>262,600.00<br>448,750.00   | ~ ~ <b>~</b> ~ ~ ~ ~ ~ | 155,789.03<br>170,268.35<br>326,057.38<br>346,752.26<br>20,694.88                                    | w w v        | 137,748.04 \$   | \$ 30,360.97<br>\$ (45,416.39)<br>\$ (15,055.42)   | 83.69%<br>9) 64.84%<br>2) 72.66%                                | 83.7% 117.3% 103.4%                       | ~ ~ ~ ~ ~ ~       | 168,570.00<br>234,095.00<br>402,665.00  | \$148,402.75<br>\$221,385.31<br>\$369,788.06   | \$456,161.95   | \$406,701.63   | \$361,003.29   |
| PARK SALARIES SERVICE EXPENSES GOODS EXPENSES FY21 TOTAL   |              | 703,100,00<br>217,800,00<br>132,000.00<br>1,052,900.00   |                        | 600,935.92<br>123,740,50<br>56,961.61<br>781,638.03  |              |   |  |   | 85.5%<br>81.4%<br>73.2%<br>83.1%          |                   | 640,390.00<br>153,630.00<br>97,955.00<br>891,975.00                             | \$605,531.90<br>\$214,808.97<br>\$104,521.77<br>\$924,862.64                         | \$564,038.91<br>\$211,203.07<br>\$122,535.91<br>\$897,777.89                         | \$550,555.51<br>\$187,726.09<br>\$114,327.03<br>\$852,608.63                         | \$497,669.11<br>\$216,729.22<br>\$107,032.63<br>\$821,430.96                         |
| ENGINEERING<br>SALARIES<br>SERVICE & GOODS EXPENSES<br>FY21 TOTAL  | w w w        | 283,970.00<br>49,420.00<br>333,390.00  | ~ ~ <b>~</b>           | 260,879.56<br>17,782.90<br><b>278,662.46</b>   | w w          | 4,734,34 S  | 23,090.44<br>5 26,902.76<br>5 49,993.20  | 4 91.87%<br>5 35.98%<br>0 83.58%                                | 91.9%<br>45.6%<br>85.0%                   | w w w             | 261,048.00<br>14,391.00<br>275,439.00   | \$335,292.76<br>\$18,793.70<br>\$354,086.46  | \$134,075,19<br>\$25,169.99<br>\$159,245,18  | \$169,040.76<br>\$1,634.49<br>\$170,675.25   | \$165,319.10<br>\$2,030.19<br>\$167,349.29   |
| WATER SALARIES SERVICES & GOODS EXPENSES DEBT SERVICE INDIRECTS FY21 TOTAL Revenue Fund Balance start FY21 REV/EXP BALANCE +/- | ~~~~~~       | 811,600.00<br>1,495,967.00<br>1,313,018.00<br>362,472.00<br>3,983,057.00<br>3,983,864.00<br>1,484,862.00 | ~ ~ ~ ~ ~ ~ ~ ~ ~      | 663,517 65<br>703,063.10<br>1,310,533.38<br><b>2,677,114.13</b><br>3,535,176.82<br><b>858,062.69</b> | v v          | 604,171.36 \$   | \$ 148,082,35<br>\$ 188,732,54<br>\$ 2,484,62<br>\$ 366,169,00<br>\$ 701,771,51<br>\$ 448,687,18 | 81 75%<br>4 47 00%<br>2 99 81%<br>0 67 21%<br>8 88.74%<br>0.00% | 81.8%<br>87.4%<br>99.8%<br>82.4%<br>88.7% | ଟି ଶିଳି<br>ഗഗഗ ୫୦ | 743,291,00<br>940,037,00<br>1,231,860.00<br><b>2,915,188.00</b><br>3,721,520.00 | \$744.874.30<br>\$1.052.873.72<br>\$1.622.498.49<br>\$3.426.246.51<br>\$3,660,402.39 | \$675,988.22<br>\$1,834,032.00<br>\$1,322,861,00<br>\$3,832,881.22<br>\$3,724,858.74 | \$624,068.06<br>\$1,756,287.00<br>\$1,093,106.00<br>\$3,473,461.06<br>\$3,825,827.51 | \$675,805,03<br>\$1,732,749,00<br>\$1,064,627,00<br>\$3,473,181,03<br>\$3,684,596,80 |
| TOTAL DPW FUNDING FOR FY21   | \$           | 8,012,997.00   | \$ 5,                  | 5,688,738.20   | 45           | 1,037,116.85  | \$ 1,287,141.95  | 2 70.99%  | 81.10%                                    | \$ \$             | \$ 5,831,900.00   | \$6,731,426.84   | \$6,727,642.33   | \$6,105,655.87   | \$ 5,664,637.55  |



# Board Members' Reports, Concerns and Updates



Topics Not Reasonably Anticipated by the Chair 48 Hours Prior to Posting, if any



**Review and Approve Minutes of** 

the 6/08/2021 Meeting

the 6/14/2021 Meeting



### WAYLAND BOARD OF PUBLIC WORKS

Posted in accordance with the provisions of the Open Meeting Law www.mass.gov/ago/openmeeting

Town Building 41 Cochituate Road Wayland, MA 01778 June 8, 2021

### **MEETING MINUTES**

Present: M. Wegerbauer (Chair), C. Lewis (Vice Chair), S. Greenbaum, M. Lowery, B. Goldsmith

DPW Staff in Attendance: Tom Holder (DPW Director). Joe Doucette (DPW Superintendent), Paul Brinkman (Town Engineer)

Planning Board (5:45PM – 6:20PM): Ira Montague, Daniel Hill, Jennifer Steel, Kevin Murphy, Larry Kiernan, Anette Lewis

Other Attendees: Sarkis Sarkisian (Town Planner), William Joseph (Arborist), Jason Adams (Host Technology)

Meeting opened at 5:02 PM.

### Meeting Information, Remote Roll Call, & Announcements

Wegerbauer called the meeting to order and explained that this meeting was being held in compliance with the revised Open Meeting Law requirements. The meeting would be live streamed on WayCAM, with all BoPW members participating by teleconference. To make a public comment via Zoom, perform a virtual "hand raise". The meeting moderator will contact you via a chat message to acknowledge your request and will inform the chair of your request to comment. Instructions for performing a virtual "hand raise" can be found at <a href="https://support.zoom.us/hc/en-us/articles/205566129-Raising-your-hand-In-a-webinar">https://support.zoom.us/hc/en-us/articles/205566129-Raising-your-hand-In-a-webinar</a>

Wegerbauer did a roll call of all those who were attending remotely, and reviewed the agenda.

Holder announced that Paul Brinkman, the Town Engineer will be moving to a new position in Pepperell. Friday will be his last day in the office. A transition plan has been agreed whereby Brinkman will provide limited support on a number of initiatives that he is currently working on.

The 2021 "Summer Sizzler" will take place tomorrow at the DPW. This is a gathering to recognize staff and also to thank Brinkman. All are welcome at the DPW Building at noon.

### **Public Comment**

Richard Turner called to thank the DPW, Joe Doucette, and Parks staff Scott Perry, John Brinkman and Mike Wilson, for their excellent work preparing Lakeview Cemetery for



Memorial Day. Also he thanked the DPW for the wonderful work they had done paving Nob Hill Road and Brackett Road.

Lowery reported that the Town Administrator had received a comment from a member of the public regarding private wells. It was pointed out that all of Wayland use the same aquifers and it is unfair that some claim to have private wells using the same aquifer water without restriction whilst the rest of the town are under a water restriction. Water should be managed as a shared community resource and, whether via private well or the Town water supply, all should operate under the same restrictions. It was commented that to do this by-laws would have to be passed.

### Water Abatement - Discussion and Possible Vote

Luke Shardlow, the homeowner, was present via Zoom. He reported that he had received a bill for water usage of \$1,665.28 and water usage was 14,300 cubic feet. This was larger than usual and following investigation he had found an irrigation leak and had it repaired.

According to Board guidelines, the maximum abatement possible would be 20% of the difference between usage and average usage over the last three similar periods (winter/summer) which would amount to an abatement of \$89.26 waiving interest and fees. The homeowner requested more than 20%. Lowery asked if there was an irrigation permit on file but there wasn't. Lowery pointed out that according to Board guidelines no abatement should be granted in the absence of an irrigation permit.

Following discussion Lowery made a motion to abate usage from 14,300 cubic feet to 12,574 cubic feet waiving interest and fees; abating the bill by \$89.26 subject to a valid permit application being obtained. Greenbaum 2<sup>nd</sup>.

Wegerbauer invited discussion which resulted in Cliff amending the motion to an abatement totaling \$500 not waiving interest and fees and subject to obtaining a permit. Goldsmith 2<sup>nd</sup> and following discussion a roll call on the amendment was taken.

Lewis aye, Lowery nay, Goldsmith aye, Wegerbauer aye, Greenbaum nay. Amendment passed (3-2-0).

Wegerbauer invited a vote on the initial motion as amended. Greenbaum seconded as amended. A roll call vote was taken.

Lewis aye, Goldsmith aye, Lowery nay, Greenbaum nay, Wegerbauer aye. Motion as amended passed (3-2-0).

Lewis reminded the homeowner that only one abatement is awarded per household.

Items Included in the Packet for Discussion

- Water Abatement documentation

### BoPW Chair & Vice Chair - Discussion and Possible Vote

Lewis offered to volunteer as Chair. Lowery made a motion that the Board elect Lewis as Chair and Wegerbauer as vice chair for the next year. Goldsmith 2<sup>nd</sup> and following a discussion a roll call was taken.

Lowery aye, Greenbaum aye, Goldsmith aye, Lewis abstain, Wegerbauer abstain. Motion passed (3-0-2).

Holder will inform the Town Clerk.

### Public Hearing: Tree Hearing - Shade Trees

Wegerbauer invited Doucette to review the list of shade trees. Doucette explained that tree #1924 was erroneously listed as "No Action" whereas it should have indicated "Recommended Removal". Paul Strehle, zoomed in asking about 3 trees on his property on Sears Road. He wants these trees to be removed even though they are listed as "No Action". They are pine trees whose branches often fall, one destroyed the mail box, another brought down a live Eversource wire, etc. He argued that their removal was a safety matter. He is happy to replace with trees acceptable to the Town. The Arborist explained that they were in good health. Strehle offered to pay for removal and to put together a planting plan with Doucette who would look into the Eversource "30 under 30" tree replacement plan. It was agreed that these three trees are to be deferred to the next hearing, the homeowner is to pay for removal and a planting plan will be developed for approval by the DPW.

Following further discussion of the recommendations, Lewis made a BoPW motion to accept the recommendations except for revisiting trees #1910, #1911 and #1912 so as to prepare a removal and replanting plan with the homeowner for consideration at a future Tree Hearing. He also clarified that #1924 is for recommended removal. The DPW will follow up with tree planting after removal of #1917 and #1924. Lowery 2<sup>nd</sup>.

Further discussion ensued and then a roll call vote was taken.

Lewis aye, Lowery aye, Goldsmith aye, Greenbaum aye, Wegerbauer aye. Motion passed (5-0-0).

### Items Included in the Pucket for Discussion

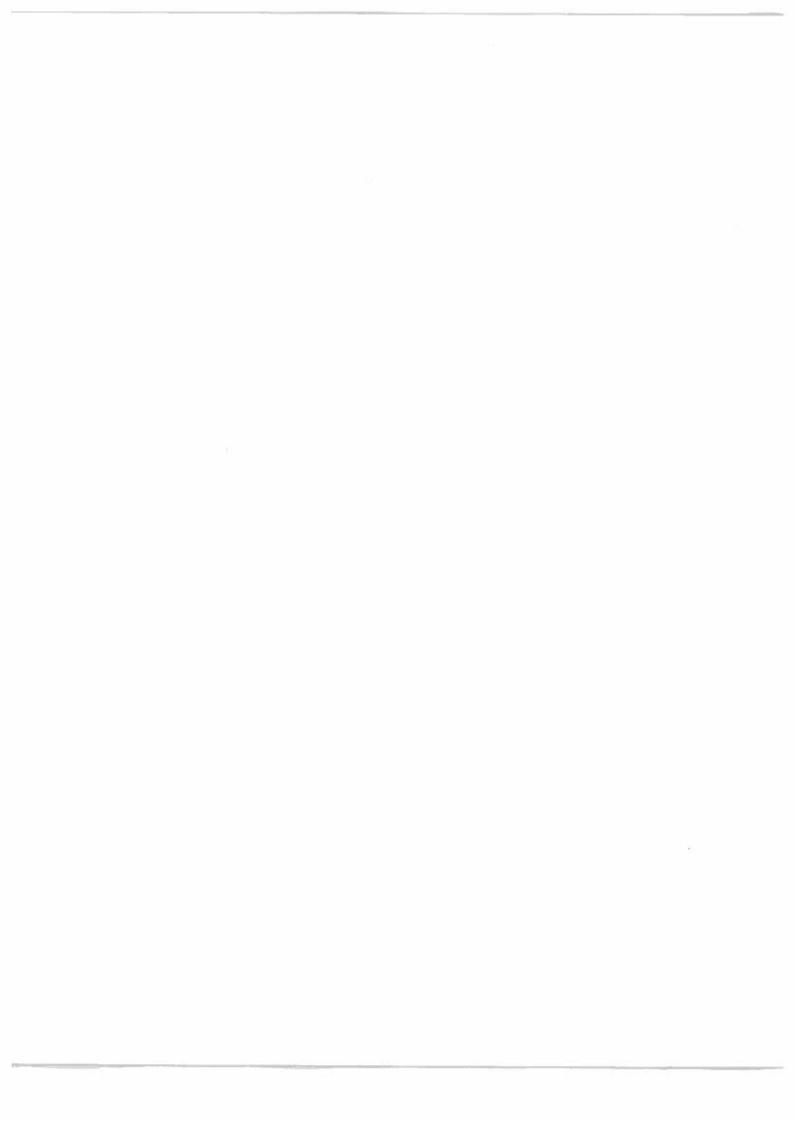
- Tree Hearing Spring Summary table and supporting documentation.

# <u>Public Hearing: Joint Meeting with BoPW and Planning Board for Tree Hearing – Scenic Trees</u>

The Planning Board joined the BoPW and were called to order.

Montague here, Hill here, Steel here, Murphy here, Lewis here, Kiernan here.

Wegerbauer thanked the Planning Board and the Town Planner Sarkis Sarkisian, for joining the BoPW for this portion of the meeting to consider Scenic trees. The Tree Hearing for Scenic Trees was being held jointly. He invited Doucette to share his screen and take everyone through



the list of trees. Wegerbauer invited objections to the recommendations on the list. Discussion ensued.

At this point Public Comment was received from some residents. Andy Oppenheim spoke about shade tree #1654 which had been voted for removal. Carol Plumb had been trying to join the meeting for the Shade Tree discussion regarding tree #1799; which had already been voted on to be removed. The Arborist confirmed that #1799 was a small dead ash tree. Mevan Samaratunga spoke about dead trees hazarding the house at 23 Claypit Road.

Lewis made a BoPW motion to accept all the recommendations except for making trees #1782 through #1787 conditional on replanting as agreed by DPW with the homeowner. Goldsmith 2<sup>nd</sup> and a roll call vote was taken.

Lewis aye, Goldsmith aye, Lowery aye, Greenbaum aye, Wegerbauer aye. Motion passed (5-0-0).

Steel made a motion on behalf of the Planning Board to remove all the scenic trees listed and that trees #1782 through #1787 was conditional on replanting as agreed by DPW with the homeowner. Murphy 2<sup>nd</sup> and a roll call vote was taken.

Montague aye, Murphy aye, Steel aye, Hill aye, Kiernan aye, Motion passed (5-0-0).

Wegerbauer thanked the Arborist William Joseph for his input. Joseph, Sarkisian and the Planning Board left at 6:45 pm.

### Items Included in the Packet for Discussion

- Tree Hearing Spring Summary table and supporting documentation.

### **PFAS Remediation**

### – Pad/Site prep Status

Holder reported that emergency certification had been received. All materials had been purchased and delivered. The DPW are working with the Building Department to obtain a permit to start the work.

### - Grant Application Status

The Town is eligible for a \$150,000 grant. The application deadline is July 8, 2021. Currently the application is in preparation and expenses are being compiled.

### - Water Filling Station(s) - Discussion and Possible Vote

There will be 1 or 2 proposed stations in Wayland. The Public Safety Building and Fire Station 2 locations in Cochituate are being considered. The supplier will be Bluedrop LLC. The rented equipment will be installed within the building with the water station itself outside which will be accessible 24/7. Residents will bring their own reusable containers. Not sure what the demand will be as yet. The Water Filling Stations will continue until the Town can provide water satisfying drinking water regulations; what happens after that has not been decided. The Stations



can be winterized. The Board felt that one station would be sufficient for a period of time not to exceed three months. This would be funded by the Water Division. Water Division funds will be used to achieve the Department of Environmental Standards. Should the Town want to lower PFAS levels further then this would become a Town issue.

Holder was asked about the rebate program. He shared that so far 500 applications for the rebate have been received from water account holders. Discussions are ongoing with regard to non-account residents.

### - Permit & Bid Status

The permit application was submitted on Thursday May 27<sup>th</sup> and Mass DEP has confirmed that it has been received. Mass DEP has approved the short term corrective action plan as well as a long term extension until January 2022. Holder has reached out about the status of the permit but no news as yet.

2 bid proposals have been received and will be discussed at the PFAS working group as to who will be chosen. Cost comparisons are being performed. The delivery dates for both bids are similar. The 300 gallons per minute option is currently being considered.

### - Sourcing/Monitoring Wells Update

The Weston and Sampson sourcing plan has been prepared. The Board of Public Works has been invited to attend the Board of Health meeting on June 14<sup>th</sup> to participate in a presentation on the PFAS MCL of 20 PPT as established by MassDEP. The guest speaker is Mark Smith, Director Office of Research and Standards at MassDEP.

### <u>Water Rates – Discussion</u> - Confirm Water Rate Hearing Date

Brinkman shared the revised spreadsheet explaining that some small changes had been made to the version seen at the last Board meeting. Discussion ensued, including the possibility of drilling new wells. The data will be discussed again at the Board meeting in July before the Water Rate Hearing scheduled for late July.

## <u>Director's Operational Report</u> - <u>Wireless Meter Reading Project - Update</u>

Holder shared that the tower lease for space on the antenna is with the Board of Selectmen for signing. A meeting is arranged with MUNIS on Tuesday June 15<sup>th</sup> to consider software aspects of the project and the invitation for bids for the installation of meters is close to its final form. This will be advertised soon.

### - Sedgemeadow Road Water Main/Repaving Plan - Update

Holder shared that the Sedgemeadow water main replacement would take place this construction season and that the bid documents will be on the town webpage shortly.

Items Included in the Packet for Discussion

### **April Financials**

Holder reviewed the April Financial Statement and following discussion it was agreed that Transfer Station costs were to be an agenda item at the July meeting.

Items Included in the Packet for Discussion - Summary of Financials for YTD April 30th

### Board Members' Reports, Concerns and Updates

Lowery reported on the taking down of a previous BoPW meeting by WayCAM. He has received a report from them and he asked that this matter be on the agenda of a future meeting. The Board will consider what actions should be taken.

Lowery is concerned that Board Members do not have sufficient access to GIS information. The Board will consider what actions are required to make the information available.

Lowery pointed out that the parking lot at the back of the Cochituate fields was in terrible condition. He asked who was responsible for maintaining this area. Doucette didn't know but he thought the space was used for parking by residents who live across the street. Lowery recommended that the DPW consult with the Recreation Department.

Lowery raised a concern about draft governance guidelines in the recent Board of Selectmen's Packet. He was not aware that elected boards had been asked to comment on the draft.

Lowery shared that a vendor had expressed an interest in placing solar panels on the landfill. Greenbaum said she remembered that there had been interest in doing this a number of years ago when solar panels were placed in various locations at Town property, such as at the Middle School and the DPW building. However there had been concern about penetration of the cap and vegetation issues.

### Topics Not Reasonably Anticipated by the Chair 48 Hours Prior to Posting, if any

None.

### Review and Approve the Minutes of the 5/4/2021, the 5/10/2021 and the 5/15/2021 Meetings

Lowery made a motion to approve the minutes of the 5/4/2021 as amended. Wegerbauer 2<sup>nd</sup> and a roll call vote was taken.

Wegerbauer aye, Goldsmith aye, Lowery aye, Lewis aye, Greenbaum abstain. Motion passed (4-0-1).

Lowery made a motion to approve the minutes of the 5/10/2021 as amended. Goldsmith 2<sup>nd</sup>, and a roll call vote was taken.

Wegerbauer aye, Goldsmith aye, Lewis aye, Lowery aye. Greenbaum abstain

N2

Motion passed (4-0-1).

Lowery made a motion to approve the minutes of the 5/15/2021 as amended. Goldsmith  $2^{nd}$  and a roll call vote was taken.

Wegerbauer aye, Goldsmith aye, Lowery aye, Lewis aye, Greenbaum abstain. Motion passed (4-0-1).

Items Included in the Packet for Discussion
- 5/4/2021, 5/10/2021, 5/15/2021 Draft BOPW Meeting Minutes

### **Set Future Meeting Dates**

Wegerbauer suggested July 13, 2021 as the next meeting date since it is the second Tuesday of the month. He also reminded the Board that we were invited to attend the Board of Health meeting on Monday June 14<sup>th</sup> for a PFAS presentation and discussion.

Holder suggested that the Water Rate Hearing could be scheduled for July 20, 2021.

Lewis said that he would like two meetings a month going forward and it was agreed that Holder and Lewis would meet separately to discuss this.

Lowery pointed out that in person meetings can occur as of June 15, 2021. Holder explained that a memorandum had been sent out by the Town Administrator explaining that Boards can meet in person as of June 15<sup>th</sup>. As long as there is a quorum present, other Board Members could attend remotely. Public would attend remotely. The meeting could take place at the Town Building in either the Large Hearing room, Council on Aging, or School Committee Room, and a Board could pick one of three time slots Monday to Thursday. Lowery asked about using the DPW Building at 66 River Road and Lewis said he would speak with the Town Administrator about allowing this.

Lewis wanted the Board to have sufficient time to do a thorough analysis of the Town's water rates and consider what other towns were doing. Holder explained that the first round of water bills for fiscal year 2022 are due to go out at the end of July. It was agreed by the Board that there wasn't time to do a thorough review this year but Wegerbauer suggested a thorough review could be done for next year. Goldsmith said that he would send Lewis the report showing rates in other towns for his review.

### Adjourn

Goldsmith made a motion to thank Wegerbauer for his work as Chair of the Board. Lowery 2<sup>nd</sup> and a roll call vote was taken.

Lewis aye, Lowery aye, Goldsmith aye, Greenbaum aye, Wegerbauer abstain. Motion passed (5-0-0).

Lewis made a motion to adjourn. Lowery 2<sup>nd</sup>, and a roll call vote was taken.

Wegerbauer aye, Goldsmith aye, Lowery aye, Lewis aye. Greenbaum aye.



Motion passed (5-0-0).

Meeting adjourned at 8:57PM.

Respectfully submitted, Anita Martin Business Manager

### WAYLAND BOARD OF PUBIC WORKS

Posted in accordance with the Provisions of the Open Meeting law <a href="https://www.mass.gov/ago/openmeeting">www.mass.gov/ago/openmeeting</a>

Zoom Meeting in Conjunction with the Wayland Board of Health Wayland, MA 01778

June 14, 2021

### **MEETING MINUTES**

Present: M. Wegerbauer (Chair), C. Lewis (Vice Chair), S Greenbaum, M. Lowery.

Board of Health, Health Department and a number of other Town officials were also in attendance.

### Meeting Information. Roll Call & Announcements, Public Comment

Lewis, called the BoPW meeting to order at 5:30 and explained that this meeting was being held in compliance with the Open Meeting Law and in conjunction with the Board of Health.

Mark Smith, Director of the Office of Research and Standards for the MassDEP made a presentation on PFAS.

At the conclusion of the presentation, Wegerbauer had a question regarding the MassDEP setting the limit of PFAS at 20ppt and that that limit was based on a rather arbitrary allocation of 20% of a person's total PFAS intake was allowable in drinking water. Smith, at Mass DEP did acknowledge that the 20% was rather arbitrary but was based on the fact that PFAS exposure was not limited to drinking water.

Wegerbauer also had a question on the floor wax in the drain and in the High School Waste Water plant. He noted that about four years ago a significant amount of floor wax was poured down the drain in the Wayland High School. This wax was sufficient to cause significant damage to the sewage treatment plant. Wegerbauer's question was if that wax could be identified as a potential source of the PFAS in the water.

Mr. Smith was not able to add any credence to the argument identifying the floor wax as a potential contributor as some waxes he said might contain PFAS compounds and some do not.

At the conclusion of the presentation and the public questions, Wegerbauer moved to adjourn the BoPW meeting. Lowery seconded the motion and it was passed unanimously at one hour 22 minutes.





Town of Wayland

June 14, 2021

C. Mark Smith, Ph.D., M.S.

Director

Office of Research and Standards

Massachusetts Department of Environmental Protection

c.mark.smith@mass.gov: 617-645-6773



# What Are PFAS?

# Poly- and perfluoroalkyl Substances

A family of thousand of compounds with varying structure (e.g, carbon chain length)

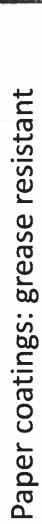
- Extremely stable Heat & Stain Resistant, Water repellent
- "Forever chemicals" Very persistent, do not biodegrade
- Water Soluble
- Some are very toxic
- Slowly excreted from the body half lives of years (1-8+ for longer-chain)
  - Developmental risks to fetus/infants
- Endocrine disruption, effects on immune system
- Possibly cancers (kidney, teste, pancreas, liver)





# Common Uses of PFAS Since the 1950s

Textile treatments: stain resistance/water repellency



"Waxes": some floor, car, ski

"Waterproof" down

Manufacturing

Aqueous Film-Forming Foam (AFFF)







levels of PFAS through use of consumer products Most Americans are exposed to some



# What Are Exposures of Concern for PFAS?

#### Sensitive groups

- Pregnant women, nursing mothers and infants
- Immunocompromised

# Water uses that pose (relatively) less concern include:

- Water use by someone *not* considered in a "sensitive group"
- Non-residential water use restaurants, workplace
- Water use for other purposes bathing, washing vegetables

## Ways people may reduce potential exposure:

- Drink and cook with bottled water
- Use a home water treatment system (NSF certification not yet available)





#### WHAT IS MASSDEP DOING ABOUT PFAS?

Developed Drinking Water and Cleanup Standards

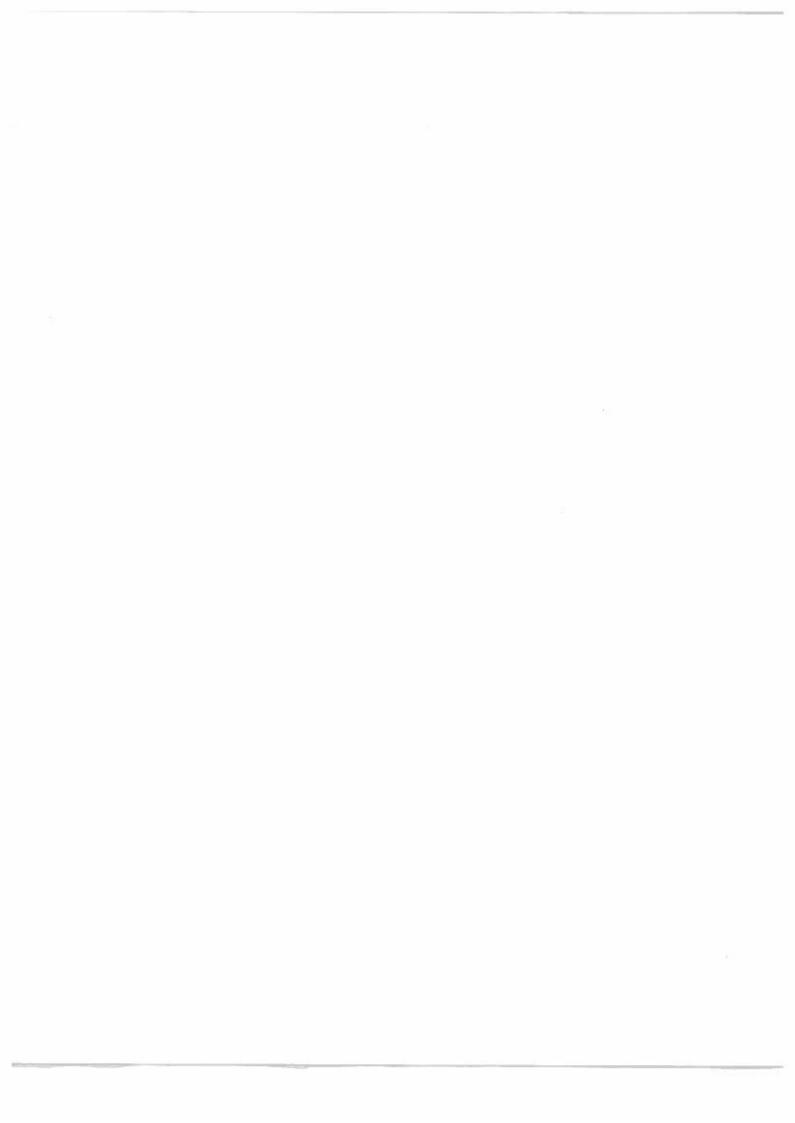
Technical Assistance, Education, Outreach, Coordination, Learning, Training

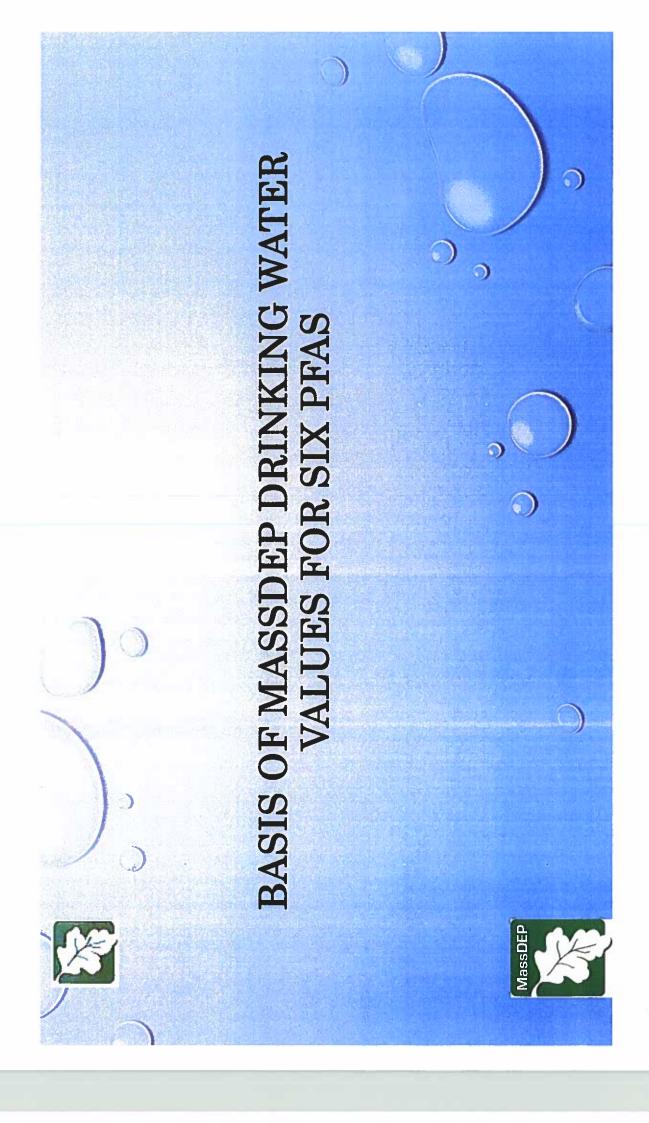
Firefighting Foam Take-Back Program

> Working to Identify Sources & Releases to the Environment

Sampling & Analyses for Public Water Systems and Private Wells









#### MassDEP Approach

- Addressed as a subclass
- Basis of selection?
- Considered EPA Method 537.1 analytes (14) Drinking water data available
- Focused on longer-chain PFAS
- More toxic and persistent in human body
- Subclass with very similar chemical structures
  - +/- 2 carbons from PFOS/PFOA
- Same functional groups
- PFOA and PFOS as surrogates: best studied
- 7 compounds in subgroup: PFNA; PFHxS; PFHpA; PFHxA; PFDA; PFOS; PFOA
- PFHxA (C6) much less toxic/shorter half life
- Final subclass incudes the remaining 6 compounds





## FINAL SUBCLASS OF LONGER CHAIN PFAS REGULATED BY MASSDEP

| # Carbons | 15       | EPA Method 537 Analytes                                    |
|-----------|----------|--|
| 4         | PFBS     | Perfluorobutanesulfonic acid                               |
| 9         | PFHxA    | Perfluorohexanoicacid                                      |
| 9         | PFHxS    | Perfluorohexanesulfonic acid                               |
| 7         | PFHpA    | Perfluoroheptanoic acid                                    |
| 8         | PFOA     | Perfluorooctanoic acid                                     |
| 8         | PFOS     | Perfluorooctanesulfonic acid                               |
| 6         | PFNA     | Perfluorononanoic acid                                     |
| .10       | PFDA     | Perfluorodecanoic acid                                     |
| 11        | NMeFOSAA | NMeFOSAA 2-(N-Methylperfluorooctanesulfonamido)acetic acid |
| 11        | PFUnA    | Perfluoroundecanoic acid                                   |
| 12        | NEtFOSAA | 2-(N-Ethylperfluorooctanesulfonamido)acetic acid           |
| 12        | PFDoA    | Perfluorododecanoic acid                                   |
| 13        | PFTrDA   | Perfluorotridecanoic acid                                  |
| 14        | PFTA     | Perfluorotetradecanoic acid                                |
|           |          |  |





## BASIS OF DRINKING WATER VALUES

Human Epidemiology Animal Toxicology

INFORMATION TOXICITY



-> Evaluate dose-response info

-> Identify study with relevant effect at lowest doses: Point of Departure (POD)

TOXICITY

VALUES

-> Extrapolate to human equivalent dose

-> Account for limitations with uncertainty factors

= Toxicity value - daily acceptable dose mg per kg body weight per day (mg/kg bw/day) Reference

Dose (RfD)

Apply exposure parameters considering:

-> Sensitive population's water consumption

-> Potential for other sources of exposure

= health-based guideline







#### DERIVATION OF MA PFAS STANDARDS FOR DRINKING WATER

- PFOA/PFOS DRINKING WATER HEALTH ADVISORIES MOST ELEMENTS CONSISTENT WITH USEPA
- THESE INCLUDE:
- EXPOSURE PARAMETERS NURSING MOTHER
- RELATIVE SOURCE CONTRIBUTION FACTOR 20%
- ACCOUNTS FOR OTHER EXPOSURES
- SUMMING CONCENTRATIONS ACROSS CATEGORY





#### MASSDEP TOOK MORE HEALTH PROTECTIVE APPROACH VS. USEPA

- REVISED RFD FOR PFOA AND PFOS
- LOWER (MORE TOXIC) VS. EPA VALUE
- ADDED FOUR ADDITIONAL CLOSELY RELATED PFAS
- PFOA/PFOS USED AS SURROGATES BASED ON SIMILARITIES IN CHEMICAL STRUCTURES; HALF LIVES; AND EFFECTS
- ALSO INFORMED BY RELATIVE POTENCY ASSESSMENT
- REVIEWED AND ENDORSED BY MASSDEP HEALTH **EFFECTS ADVISORY COMMITTEE**





# WHY DID MASSDEP REVISE THE REFERENCE DOSE?

- ATSDR DRAFT TOXICITY VALUES LOWER
- EXPOSURE LEVELS THAN USED IN EPA'S ASSESSMENT • EFFECTS IN MULTIPLE ANIMAL STUDIES AT LOWER
- THYROID; LIVER; DEVELOPMENTAL (MAMMARY GLAND, LIVER, SKELETAL); IMMUNOTOXICITY
- TAKEN TOGETHER THESE RAISED COMPELLING CONCERNS
- HOWEVER, BECAUSE THE INDIVIDUAL STUDIES HAVE LIMITATIONS, ALTERNATIVE SINGLE STUDY TOXICITY DATA NOT USED AS POD





## UPDATED REFERENCE DOSE

- TO ACCOUNT FOR MORE SENSITIVE EFFECTS A DATABASE UF (UFD) WAS APPLIED
- ESTABLISHED APPROACH
- USED BY ATSDR AND SEVERAL OTHER STATES IN PFAS
  ASSESSMENTS
- UF<sub>D</sub> OF 10<sup>1/2</sup> SELECTED
- COMPARISONS OF SERUM LEVELS AT ALTERNATIVE PODS: 2 TO 5-FOLD LOWER
- REVISED RFD = 5 X 10-6 MG/KG-DAY (VS. EPA PFOA AND PFOS RFD OF 2 X 10-5



# WHAT ABOUT THE OTHERS IN THE SUBCLASS?

- MUCH LESS DATA
- EXTENSIVE TOXICITY DATA: IN THIS CASE PFOA AND PFOS LOOK TO SIMILAR SURROGATE CHEMICALS WITH MORE
- "SIMILARITY" BASED ON
- CHEMICAL STRUCTURES
- TOXICITY PROFILES
- HALF-LIVES
- COMPARATIVE POTENCY EVALUATION WHERE DATA ALLOWS





## SUBCLASS CHARACTERISTICS

- SHARE SIMILAR TOXICITY PROFILES
- LIVER
- THYROID
- DEVELOPMENT
- IMMUNE SYSTEM
- CAUSE ADVERSE EFFECTS AT SIMILAR DOSES
- EQUIVALENT DOSE RANGES AT ADVERSE EFFECT LEVELS • OVERLAPPING SERUM CONCENTRATION AND HUMAN
- NATIONAL TOXICOLOGY PROGRAM (NTP) STUDY DATA MASSDEP COMPARATIVE POTENCY ASSESSMENT OF



## NTP PFAS TOXICITY STUDY

- NATIONAL TOXICOLOGY PROGRAM (NTP) (2018)
- 28-DAY TOX STUDIES FOR 7 PFAS; DATA ON MULTIPLE ENDPTS
- BEST AVAILABLE COMPARATIVE POTENCY STUDY

| Carboxylates |      | PFHxA | PFOA | PFNA | PFDA |
|--------------|------|-------|------|------|------|
| Sulfonates   | PFBS | PFHxS | PFOS |      |      |
| # Carbons    | 4    | 9     | 00   | 6    | 10   |

PFHpA was not included in NTP study



#### POTENCY COMPARISONS BASED ON NTP 28-DAY STUDY

- RELATIVE POTENCIES COMPARED FOR MOST SENSITIVE BENCHMARK RESPONSES
- FREE THYROXINE CONCENTRATION
- RELATIVE LIVER WEIGHT
- DOSES ASSOCIATED WITH BENCHMARKS CALCULATED
- FOR BOTH RESPONSES USING TWO MEASURES OF DOSE
- BASED ON MULTIPLE DOSE RESPONSE MODELS AVERAGED USING BAYESIAN BENCHMARK DOSE (BBMD) APPROACH



Bayesian Benchmark Dose BBMD (Shao and Shapiro 2018) https://benchmarkdose.org/

## POTENCIES RELATIVE TO PFOA

NTP (2018) 28-day male rat bioassay data

| End Point       | Free T4      | Relative<br>Liver Wt | Free T4 Liver Wt Free T4 Liver Wt | Relative<br>Liver Wt         |
|-----------------|--------------|----------------------|-----------------------------------|------------------------------|
| Exposure Metric | Serum (mg/L) | (mg/L)               | HED (mg                           | HED (mg/kg-day) <sup>a</sup> |
| BMR             | 20%          | %9                   | 20%                               | 2%                           |
| PFOA            | -            |                      |                                   | -                            |
| PFOS            | 3            | ~                    | 4                                 | -                            |
| PFNA            | က            | 6.0                  | 2                                 | 9.0                          |
| PFHxS           | 0.5          | 0.2                  | 0.8                               | 0.2                          |
| PFDA            | -            | 2                    | 2                                 | 2                            |

- All RPs within factor of five (5) Most within factor of two (2)





# CONCLUSIONS: RP EVALUATION NTP STUDY

- DEPENDENT EFFECTS IN THE LIVER AND THYROID • ALL FIVE LONGER-CHAIN PFAS CAUSED DOSE-
- POTENCIES MOSTLY WITHIN 1 TO 2-FOLD OF PFOA, ALL WITHIN 5-FOLD AND OVERLAP ACROSS ENDPOINTS AND DOSE METRICS
- · SUPPORTS SIMILARITY OF POTENCIES
- REVISED RFD FOR PFOS AND PFOA APPLIED TO SUBCLASS





### OVERALL CONCLUSIONS

- The MMCL of 20 ppt (ng/L) is applicable to each PFAS individually and the sum of 6 PFAS
- The MMCL is health-based and protective of the most sensitive population
- perform a review for relevant developments in the science, The regulations require that, every 3 years MassDEP, assessment and regulation of PFAS in drinking water
- Revisions and possible consideration of additional PFAS is
- MA's standards in line with those of other states





# Comparison of Drinking Water Values for PFAS (ppt)

| as of Jan. 2020                          | PFOS          | PFOA       | PFNA           | PFHxS                                      | PFHpA       | PFDA   |
|--|---------------|------------|----------------|--|-------------|--------|
| USEPA                                    |               | 20         | A A            | Y Y  | A A         | A<br>A |
|  | Sum           | Sum of two |                |  |             |        |
| NA MCL. GW standard                      |               | 70 (2018   | ORSG) → 20     | 70 (2018 ORSG) → 20 (MCL; MCP GW standard) | V standard) |        |
|  |               | Sum        | Sum of five →  | Sum of six (adds PFDA)                     | s PFDA)     |        |
| VI MCL                                   |               |            | 20 Sum of five | five                                       |             | AN     |
| CT Action Levels                         |               |            | 70 Sum of five | five                                       |             | NA     |
| M Pessenanded GW Handard                 |               | 20         |                |  |             |        |
| ATSOR chalt ATSOR to exity values        | 7             | 11         | 10             | 70   | AN          | AS.    |
| sat (PA exposure parameters              |               |            |                |  |             |        |
| NY MCL                                   | 10            | 10         | NA             | NA   | NA          | NA     |
| NI MC.                                   | 13            | 14         | 13             | NA   | NA          | AN     |
| CA Rendication terms                     | 6.5           | 5.1        | AN             | AN   | AN          | AZ     |
| (Response ieneb)                         | (40)          | (10)       |                |  |             |        |
| MIMC.                                    | 16            | ∞          | 9              | 51   | AN          | PFNA   |
|  |               |            |                |  |             | value  |
|  | north Control |            |                |  |             | recomm |
|  |               |            |                |  |             | ended  |
| MN sudernes                              | 15            | 35         | AN             | 47   | AN          | AN     |
| NH MCI                                   | 15            | 12         | 11             | 18   | NA          | NA     |
| Most other states (LPA value by default) |               | 70         | AN             | NA   | NA          | A<br>A |





### **ACKNOWLEDGEMENTS**

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF RESEARCH AND STANDARDS
 DR. SANDRA BAIRD

DR. TSEDASH ZEWDIE

DRINKING WATER PROGRAM



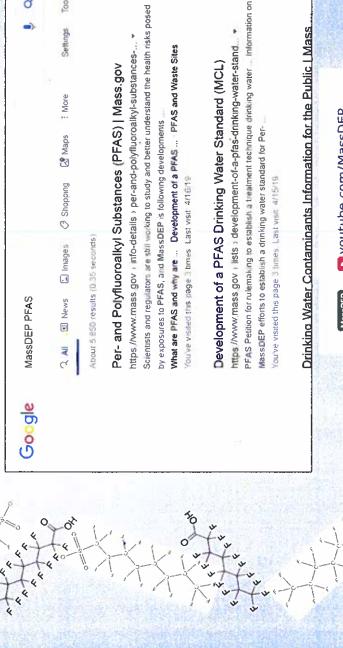




## Just Google... MassDEP PFAS

Q

Settings



youtube.com/MassDEP flickr.com/MassDEP

Mass.Gov/DEP

**●** @MassDEP



#### **BoPW Meeting 7/13/2021**

**Future Meeting Dates** 



#### **BoPW Meeting 7/13/2021**

<mark>Adjourn</mark>

