

Water Resources Management Advisory Committee Meeting

November 7, 2024
1- 3 pm
via
Zoom

Agenda

1. Review and Vote on Minutes from 6/17/2024 meeting	10 Minutes
 2. WMA Program Updates - Updated Schedule for Permit Renewals through 2028 - EPA Correspondence 	20 Minutes
3. Direct Mitigation for PermittingCalculating stormwater recharge for mitigation credit	25 Minutes
4. Nonessential Use Restrictions on Registrations vs. Permits- Proposals for Aligning Permit and Registration Requirements	50 Minutes
5. Next Steps-Permit Guidance Document & Future Meeting Topics	15 Minutes

WMA Permit Renewal Schedule

		MassDEP Water Management	t Program Permitting Sche	dule Summary* - O	ctober 2024	
Watershed Name	Public Water Supply (PWS) & Total Permits	Orders to Complete (OTC) requires any additional information needed for review	Permit Renewals Reviews Completed Through October 2024	Anticipated Renewal Date	New and Amended Permits Issued January 2015 - October 2024	Expiration Date for Permits per 310 CMR 36.17
Hudson	3 PWS 6 total	Renewed: 2008	3 PWS 6 total	2008		Dec. 6, 2033
		Periodic Review scheduled 2027		Review 2027-2028		,
		Renewed: 2009	14 PWS 19 total	2009		June 5, 2034
Blackstone	14 PWS 19 total	Periodic Review scheduled 2027	14 FW3 19 total	Review 2027-2028	3 amendments	Julie 5, 2054
		Renewed: 2009	14 PWS 20 total	2009		
Charles	14 PWS 20 total	Periodic review underway: 2024	5 PWS 10 reviews total	Reviews 2024-2027	1 new / 1 amendment	June 5, 2034
Ipswich	4 PWS 5 total	1 OTC remains to be issued	3 FW3 10 Teviews total	2026-2027		Aug. 31, 2029
ipoteitii	11.170 3 (0(a)	Renewed: 2009	4 PWS 8 total	2009		
North Coastal	4 PWS 9 total	Periodic review scheduled 2027	-1.443 G (O(G)	Reviews 2026-2027	1 new	Dec. 6, 2034
		1 Chouse review serieduled 2027				
Boston Harbor	9 PWS 17 total	2 OTCs remain to be issued	2 PWS 9 total	2024-2027	2 new / 2 amendments	June 5, 2031
Taunton	23 PWS 47 total	2 OTCs remain to be issued	12 PWS 29 total	2024-2027	2 new / 1 amendment	June 5, 2031
South Coastal	12 PWS 20 total	1 OTC remains to be issued	11 PWS 19 total	2024	3 new / 2 amendment	Dec. 6, 2031
Cape Cod	17 PWS 27 total	5 OTCs remain to be issued	8 PWS 17 total	2024-2027	3 new / 1 amendment	Mar. 6, 2032
cupe cou	271110 2710101	5 6 163 Terriain to be issued	01110 1710101		onew/ I direction en	
Islands	4 PWS 7 total	OTCs completed	1 PWS 3 total	2024-2025	1 new	June 4, 2032
Buzzards Bay	11 PWS 39 total	7 OTCs remain to be issued	2 PWS 9 total	2024-2027	3 new / 7 amendments	Sep. 4, 2032
Concord	12 PWS 17 total	OTCs completed	5 PWS 10 total	2024-2027	2 amendments	Dec. 6, 2032
Ten Mile	4 PWS 7 total	OTCs anticipated: 2026		2026-2027	1 amendment	Nov. 31, 2031
Deerfield	1 PWS 2 total	OTCs completed	1 PWS 2 total	2019		June 4, 2033
Housatonic	2 PWS 9 total	1 OTC remains to be issued	0 PWS 1 Total	2024-2025		May 31, 2032
Farmington	No permits					
Westfield	2 PWS 4 total	1 OTC remains to be issued	1 PWS 1 total	2024-2025		Nov. 31, 2032
Millers	5 PWS 6 total	OTCs anticipated: 2027		2027-2029		Feb. 28, 2033
Chicopee	8 PWS 11 total	1 OTC remains to be issued		2024-2025		May 31, 2033
Quinebaug	1 PWS 2 total	1 OTC remains to be issued		2024-2025		Aug. 31, 2033
Connecticut	10 PWS 24 total	21 OTC remain to be issued		2024-2025		Nov. 31, 2033
Nashua	14 PWS 17 total	OTCs anticipated: 2026		2026-2027	1 amendment	Feb. 28, 2034
French	2 PWS 2 total	OTCs anticipated: 2027		2027-2029		May 31, 2034
Shawsheen	1 PWS 1 total	OTCs anticipated: 2027		2027-2029		Aug. 31, 2034
Merrimack	17 PWS 22 total	OTCs anticipated: 2025-2026		2025-2026	6 amendments	Nov. 31, 2034
Parker	4 PWS 5 total	OTCs anticipated: 2026		2026-2027	1 amendment	Feb. 28, 2035
Narragansett	1 PWS 2 total	OTCs anticipated: 2027		2027-2028		May 31, 2035

^{*} NOTES on Water Management Permit Expiration and Renewal Dates

Pursuant to M.G.L. c. 30A, section 13, and 310 CMR 36.18(7), if a **permit renewal application** is filed by the filing deadline, the existing permit will be administratively continued in force and effect until MassDEP issues a final decision on the renewal application.

Nonessential Use Restrictions Registrations vs. Permits

Nonessential Outdoor Water Use Restrictions

Permit vs. Registration

Existing Condition

Permits – May 1 to Sept. 30

	Calendar		
RGPCD for prior year	May 1 to Sept 30	7 day Low- Flow Trigger	
< 65 →	7 days*	1 day*	
>65 or Minim. subbasin	2 days*	1 day*	

STREAMFLOW				
Flow above ABF	Flow below ABF	7 day Low- Flow Trigger		
7 days	7 days*	1 day*		
7 days	2 days*	1 day*		

Note: Cape and Island requirements are

based on GW and Drought Triggers

Registration Conditions- Year Round

State Drought Plan	Nonessential Outdoor Water-Use Restrictions		
Level 1-Mild	1 day per week watering, before 9 a.m. or after 5 p.m.		
Level 2-Significant	Hand-held hoses or watering cans only, before 9 a.m. or after 5 p.m.		
Level 3-Critical	Ban on all nonessential outdoor water use		
Level 4- Emergency	Ban on all nonessential outdoor water use		

^{*} No watering 9 am to 5 pm on any day

Nonessential Outdoor Water Use Restrictions

Option-1- Replace 7 Day-Low Flow with Drought Plan

Permits – May 1 to Sept. 30

	Calendar		
RGPCD for prior year	May 1 to Sept 30	Drought Plan	
< 65 →	7 days*	See below*	
>65 or Minim. Subbasin	2 days*	See below*	

STREAMFLOW				
Flow above ABF	Drought Plan			
7 days	7 days*	See below*		
7 days	2 days*	See below*		

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Nonessential Outdoor Water Use Restrictions

Option-2- Replace 7 Day with Drought Plan & Calendar-only trigger

Permits – Year Round

	Calendar			
RGPCD for prior year	Year Round	Drought		
< 65 →	7 Days*	Drought Plan		
>65 or Minim. Subbasin	2 Days*	Drought Plan		

	STREAMFLOW		
Flow above ABF	Flow below ABF	Drought Plan	
7 days	7 days*	See below	
7 days	2 days*	See below	

Note: Cape and Island requirements are based on GW and Drought Triggers

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Nonessential Outdoor Water Use Restrictions Permit vs. Registration

Questions

- Aligning Permits/Registrations
 - Replace the 7-day low flow restrictions in permits with the Drought requirements?
 - Permits include timeline (May 1-Sept. 30) for all restrictions Registration requirements are in place year-round
 - Drought requirements apply year-round? or
 - Develop SOP that outreach to regulated community is from May 1 –
 Sept. 30 or April 1 October 30?
- Do we wish to simplify requirements for permittees?
 Permits include 2 options (Calendar & Streamflow)
 - Remove Streamflow triggers and require only Calendar and Drought Triggered restrictions?
- Golf permits remove the 7-Day Low Flow?



Golf Conditions

87 R**egistered**vs.
62 permitted

Registered Golf Courses are required to implement Seasonal Demand Management Plan with graduated reductions in nonessential irrigation based on drought levels. Permits are also triggered by the 7 Day Low Flow Value.

Irrigation can be reduced either by reducing irrigation times, or by irrigating fewer acres Watering allowed up to designated percent

MA Drought Level	Tees & Greens	Fairways	Roughs	Landscape & Ornamentals
Normal	100%	100%	100%	100%
Level 1 (Mild) or <mark>7 Day</mark> Low Flow value	Essential Use	80%†	50%†	Courses whose core business includes a
Level 2 (Significant)		60%†		special event venue may continue to irrigate gardens, flowers and ornamental plants by means of hand-held hose or
Level 3 (Critical)		40%†	0%	drip irrigation
Level 4 (Emergency) **	TBD	40%		0%

[†] Irrigation use shall not occur between the hours of 9 a.m. and 5 p.m., except that hand-watering of hot spots may occur at any time

^{**} Additional actions to be determined by the Governor's Emergency Proclamation.

Questions and Comments



 Following slides are only incase I need to refer back to them should questions arise about frequency of triggers.

Restriction Triggers 2020 & 2022

Year	Basin	Triggers, Dates and Watering allowed						
		Permit- ABF	Permit 7-Day LF	Drought Level 1	Drought Level 2	Drought Level 3		
Watering allowed		2-Days wk	1-day	1-day	Hand only	none		
2020	Charles R.	5/29-7/5 off 7/15-8/9 <mark>74</mark> 8/31-9/10	39 8/10-8/30 9/11-9/30	34 7/9	NE 6/24 8/12 63 9/4	10/10		
2020	Taunton R.	6/5-6/14 off 6/18-7/5 off 7/24-8/9	51 8/10-9/30		49 SE 8/12 9/4	10/10		
2022	Charles R.	5/19-7/17 → 58	7/18-9/12 56		NE 6/15 55 7/12; 10/7	8/9 9/8 30		
2022	Taunton R.	5/21-7/27 ⇒ 67	7/28 – 8/30 33	SE 5/11 10/7 35	6/15;7/12; 9/8 76	8/9 30		

USGS Gage	May-June ABF (cfs)	July – Sept. ABF (cfs)	7-Day Low Flow (cfs)
Charles River @ Dover	170	62	30
Taunton River @ Bridgewater	265	119	47

Drought Status vs 7-Day Low-Flow

Level 1-Mild Drought

Level 2-Significant Drought

1 day per week watering Hand-held hoses or watering cans only

June 24, 2020



July 9, 2020



Aug. 12 & Sept. 4. 2020



7 DAY LOW FLOW Vs DROUGHT TRIGGER 2018-2023 (May-Sept)

1st time 7 Day LF trigger hit for 3 cons. days each year = 1 day per week watering & (Date each State Drought Region Trigger was hit first time that year)

River and Drought Region	2018	2019	2020	2021	2022	2023
Concord River @Lowell- NE			<mark>8/13</mark> (L2-6/24)		<mark>7/25</mark> (L2-6/15)	
Indian Head River@Hanover - SE	<mark>8/4</mark>		<mark>7/29</mark> (L2-8/12)	(L1-6/10)	<mark>7/24</mark> (L2-6/15)	
Mill River@Northampton-CT		<mark>8/29</mark>	<mark>8/14</mark> (L2-6/24)		<mark>7/26</mark> (L1-6/15)	