

architects + engineers

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October 1, 2021

Ms. Kristine Wheeler, P.E., Director  
Bureau of Water Supply Protection  
New York State Department of Health  
Corning Tower  
Empire State Plaza, Rm 1110  
Albany, New York 12237

*Emailed To: [bpwsp@health.ny.gov](mailto:bpwsp@health.ny.gov)*

Mr. Jason Hime, P.E.  
Suffolk County Department of Health Services  
360 Yaphank Avenue, Ste. 1C  
Yaphank, New York 11980-9653

**Re Greenlawn Water District  
1,4-Dioxane MCL Deferral  
Emerging Contaminant Quarterly Update – 3<sup>rd</sup> Quarter 2021  
Public Water System ID# NY5103271**

Dear Ms. Wheeler and Mr. Hime:

On behalf of the Greenlawn Water District, our office has prepared the enclosed emerging contaminant quarterly update for the 3<sup>rd</sup> quarter of 2021 (July 1 through September 30, 2021).

The Greenlawn Water District has, for the past several years, been proactively addressing the issues of emerging contaminants in their supply wells. However, with the MCL being established for 1,4-dioxane in August 2020, the District did not have sufficient time to implement wellhead treatment for the removal of 1,4-dioxane. The District requested a Deferral for the 1,4-dioxane MCL which was approved on January 6, 2021 and shall be effective until August 25, 2022.

As requested by the Deferral approval, the District provided the residents with the Public Notice and it is posted on their website. In addition, this Quarterly Update has been prepared to present the progress the District is making to install treatment systems to remove 1,4-dioxane. More specifically, this update provides:

- A. A summary of 1,4-dioxane sampling results for this quarter.
- B. Progress Reports on 1,4-dioxane treatment projects and any potential issues that could delay progress in meeting milestone dates presented in the Corrective Action Plan in the original Deferral request.

In summary, during the 3<sup>rd</sup> quarter of 2021, **all water delivered by the District was below the MCL for 1,4-dioxane.** Well No. 12 was not used during the quarter and remains to be utilized only in a water emergency.

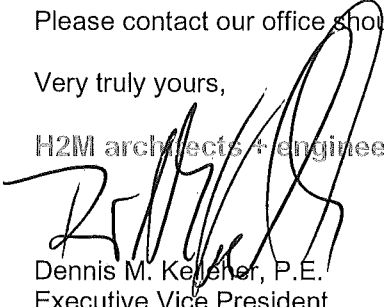
Construction of the new AOP treatment system for Well No. 12 began in August 2021. The treatment system is anticipated to be on-line in late Spring 2022. The District continues to closely monitor the water quality trends at Well Nos. 8 and 11 and has recently determined that wellhead treatment for 1,4-dioxane is necessary at this time. Now that the District has started to proceed with both of these projects, an extension of the MCL deferral for an additional eight (8) months to April 25, 2023 is requested.

The District has posted this Quarterly Update on the Greenlawn Water District website.

Please contact our office should you have any comments concerning this Deferral Update.

Very truly yours,

H2M architects + engineers



Dennis M. Kelleher, P.E.  
Executive Vice President

DMK:mww

Enclosure

cc: Board of Commissioners  
Mr. Joshua Mednick  
Supt. Robert Santoriello

Greenlawn Water District  
PWS ID No. NY5103271  
1,4-dioxane Water Quality Summary



Status as of: July 1, 2021 through September 30, 2021  
Prepared by: H2M architects+engineers

Location	Date Sampled	1,4 - Dioxane (ug/L)	1,4-dioxane Treatment in Place (Y/N)	Notes and Comments	
		Finished Water Level			
Well No. 3	7/21/2021	0.074	N	NOT IN USE DURING THIS QUARTER	
Well No. 4	7/21/2021	0.130	N		
Well No. 5	7/21/2021	0.55	N		
Well No. 6	7/21/2021	0.26	N		
Well No. 8	7/21/2021	0.93	N		
Well No. 9	7/21/2021	0.065	N		
Well No. 10	7/21/2021	0.35	N		
Well No. 11	7/22/2021	0.91	N		
Well No. 12	-	NS	N		
Well No. 13	7/22/2021	0.33	N		
Well No. 14	7/22/2021	0.17	N		
Well No. 15	7/22/2021	0.39	N		
Well No. 17	7/22/2021	0.22	N		
Well No. 18	7/22/2021	0.20	N		
Notes: Well No. 12 not in use during this quarter. Sample results are of finished water levels.					
ND	Non-detect	<b>Bold results exceed MCL</b>			
MCL	Maximum Contaminant Level				
NS	Not Sampled				

**Water Quality Test Results Attachments to Follow**

Greenlawn Water District  
PWS ID No. NY5103271  
Progress, Potential Issues and Water Quality Update



Quarterly Report Date: 10/1/2021

Prepared By: H2M architects+engineers

Milestone Description	Original Schedule	Revised Schedule	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
<b>Project No. 1 - Plant No. 12 AOP</b>					
Pilot Test	-	-	Y		Completed prior to deferral request application.
Engineering Report	12/2020	-	Y	Y	Completed in April 2021.
Design Complete	2/2021	-	Y	Y	Completed in May 2021.
Start Construction	3/2021	8/2021	Y	Y	Construction to started in August 2021.
Complete Construction	3/2022	6/2022	N	Y	Expected substantial completion June 2022.
<b>Project No. 2 - Plant No. 8 AOP</b>					
Pilot Test	1/2021	10/2021	N	Y	District authorized start of pilot study in August 2021.
Engineering Report	3/2021	10/2021	N	Y	District authorized engineering report in August 2021.
Design Complete	7/2021	2/2022	N	Y	
Start Construction	9/2021	3/2022	N	Y	
Complete Construction	10/2022	4/2023	N	Y	Expected Startup April 2023.
<b>Project No. 3 - Plant No. 11 AOP</b>					
Pilot Test	2/2021	10/2021	N	Y	District authorized start of pilot study in August 2021.
Engineering Report	4/2021	10/2021	N	Y	District authorized engineering report in August 2021.
Design Complete	8/2021	2/2022	N	Y	
Start Construction	10/2021	3/2022	N	Y	
Complete Construction	11/2022	4/2023	N	Y	Expected Startup April 2023.
<b>Potential Issues/Concerns/Delays Explanation:</b>					
<p>Implementation of Project Nos. 2 and 3 had been delayed until August 2021. The Water District continues to closely monitor the water quality trends at Well Nos. 8 and 11 and has determined that wellhead treatment for 1,4-dioxane is necessary at this time. The District has authorized the projects to proceed. An extension of the MCL deferral date is being requested at this time to allow for the completion of these projects.</p>					