

January 3, 2023

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*

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

*Emailed To: Jason.Hime@suffolkcountyny.gov*

**Re      Greenlawn Water District  
         1,4-Dioxane MCL Deferral  
         Quarterly Report – 4<sup>th</sup> Quarter 2022  
         Public Water System ID# NY5103271**

Dear Ms. Wheeler and Mr. Hime:

On behalf of the Greenlawn Water District, our office has prepared the enclosed 1,4-Dioxane MCL Deferral Quarterly Report for the fourth quarter of 2022 (October 1 through December 31, 2022).

As their record demonstrates, the District has been proactive in addressing the issues of emerging contaminants in their supply wells. However, with the MCL for 1,4-Dioxane established in August 2020, the District did not have sufficient time to implement wellhead treatment at their most threatened wells. The District received an initial deferral for the MCL in effect through August 25, 2022. A request for a one-year renewal was granted, with the deferral now in effect through August 25, 2023.

As requested by the deferral approval, the District provided the residents with a public notice and posted said notice to their website. In addition, this Quarterly Report 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 report 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.

As shown on the enclosed 1,4-Dioxane Water Quality Summary table, during the fourth quarter of 2022, **all water delivered by the District was below the MCL for 1,4-Dioxane**. Well No. 3 suffered a mechanical failure prior to the start of the quarter and remains out of service at this time. Well Nos. 6 and 12 were not used during the quarter.

Construction of the new AOP treatment system for Well No. 12 (Project No. 1) is complete, with the request for completed works under review by the health department. Design plans and specification for AOP treatment at Well No. 11 (Project No. 3) are currently under review by the health department, with construction contracts expected to be released for bidding in early 2023. The schedule for AOP treatment



at Well No. 8 (Project No. 2) lags Project No. 3 by several months. There is the potential for material supply chain issues to impact the construction schedule of both these projects.

This Quarterly Report has been posted on the Greenlawn Water District website.

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

Very truly yours,

**H2M architects + engineers**

A handwritten signature in black ink that reads "Michael W. Weber".

Michael W. Weber, P.E.  
Department Manager – Water Resources

MWW

Enc.

cc: Board of Commissioners  
Supt. Robert Santoriello - eCopy  
Mr. Joshua Mednick, P.E. - eCopy  
Dennis M. Kelleher, P.E. - eCopy

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



Status as of: October 1 through December 31, 2022  
Prepared by: H2M architects+engineers

Location	Date Sampled	1,4-Dioxane (µg/L) <sup>(1)</sup>	1,4-Dioxane Treatment in Place (Y/N)	Notes and Comments
Well No. 3		NS	N	Not sampled during this quarter <sup>(2)</sup>
Well No. 4	10/20/2022	0.19	N	
Well No. 5	12/6/2022	0.63	N	
Well No. 6		NS	N	Not in use during this quarter <sup>(3)</sup>
Well No. 8	10/20/2022	0.76	N	
Well No. 9	10/20/2022	0.12	N	
Well No. 10	10/20/2022	0.35	N	Not in use during this quarter <sup>(4)</sup>
Well No. 11	10/20/2022	0.82	N	
Well No. 12		NS	N	
Well No. 13	10/20/2022	0.29	N	
Well No. 14	10/20/2022	0.23	N	
Well No. 15	10/20/2022	0.35	N	
Well No. 17	10/20/2022	0.13	N	
Well No. 18	10/20/2022	0.24	N	
Notes:				
	(1) Sample results are of finished water levels.			
	(2) Well No. 3 out of service due to mechanical failure.			
	(3) Well No. 6 out of service due to facility renovations.			
	(4) Well No. 12 out of service due to construction of AOP treatment.			
MCL	Maximum Contaminant Level		<b>Bold results exceed MCL</b>	
NS	Not Sampled			

**Water Quality Laboratory Results Attached**

Greenlawn Water District  
PWS ID No. NY5103271  
Project Progress Summary



Status as of: October 1 through December 31, 2022  
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 started in August 2021.
Complete Construction	3/2022	12/2022	Y	Y	Request for completed work under review by health department.
<b>Project No. 2 - Plant No. 8 AOP</b>					
Pilot Test	1/2021	6/2022	Y	Y	Pilot test exemption report complete.
Engineering Report	3/2021	8/2022	N	Y	Report endorsed by health department in August 2022.
Design Complete	7/2021	2/2023	N	Y	
Start Construction	9/2021	5/2023	N	Y	
Complete Construction	10/2022	6/2024	N	Y	Expected startup and performance testing in June 2024.
<b>Project No. 3 - Plant No. 11 AOP</b>					
Pilot Test	2/2021	4/2022	Y	Y	Pilot test exemption report complete.
Engineering Report	4/2021	5/2022	Y	Y	Report endorsed by health department in August 2022.
Design Complete	8/2021	11/2022	N	Y	Plans submitted to health department in November 2022.
Start Construction	10/2021	3/2022	N	Y	Expected bidding of construction contracts in January 2023.
Complete Construction	11/2022	4/2024	N	Y	Expected startup and performance testing in spring 2024.
<b>Potential Issues/Concerns/Delays Explanation:</b>					
Project No. 1 is scheduled to be complete and approved to operate in January 2023. Design documents for Project No. 3 was submitted to the health department for review in November 2022, with construction contracts to be released for bid in the early 2023. Design of Project No. 2 will be completed in early 2023, with construction expected to begin mid-year. The MCL deferral has been renewed until August 25, 2023.					