



architects + engineers

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October 10, 2022

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 – 3rd 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 third quarter of 2022 (July 1 through September 30, 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. Recently, 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 third quarter of 2022, **all water delivered by the District was below the MCL for 1,4-Dioxane**. As discussed in the previous Quarterly Report, the sample for Well No. 4 was collected on the last day of the second quarter with results pending at the time the report was issued. The result is noted on the enclosed table. Well No. 5 suffered a mechanical failure in early August 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 nearly complete, with the performance testing laboratory results pending. A request for completed works will be made following reporting of the results. Pilot testing and engineering reports for 1,4-Dioxane at Well Nos. 8 (Project No.

2) and 11 (Project No. 3) are complete. Construction contracts for Project No. 3 are expected to be released for bid during the fourth quarter 2022, followed by Project No. 2 in mid-2023. 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.
Senior Discipline Engineer

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: July 1 through September 30, 2022
Prepared by: H2M architects+engineers

Location	Date Sampled	1,4-Dioxane (ug/L) ⁽¹⁾	1,4-Dioxane Treatment in Place (Y/N)	Notes and Comments	
Well No. 3	8/24/2022	0.08	N	Q2 result: 0.16 ug/L (6/30/2022) ⁽²⁾ Sample not collected ⁽³⁾ Not in use during this quarter ⁽⁴⁾ Not in use during this quarter ⁽⁵⁾	
Well No. 4	8/24/2022	0.20	N		
Well No. 5	-	NS	N		
Well No. 6	-	NS	N		
Well No. 8	8/24/2022	0.96	N		
Well No. 9	8/24/2022	0.10	N		
Well No. 10	8/24/2022	0.39	N		
Well No. 11	8/25/2022	0.91	N		
Well No. 12	-	NS	N		
Well No. 13	8/25/2022	0.32	N		
Well No. 14	8/25/2022	0.24	N		
Well No. 15	8/25/2022	0.37	N		
Well No. 17	8/25/2022	0.24	N		
Well No. 18	8/25/2022	0.22	N		
Notes: (1) Sample results are of finished water levels. (2) Well No. 4 result for second quarter was not available at time of previous update. (3) Well No. 5 out of service since mid-August due to mechanical failure. (4) Well No. 6 out of service due to facility renovations. (5) Well No. 12 out of service due to construction of AOP treatment.					
MCL	Maximum Contaminant Level		Bold results exceed MCL		
NS	Not Sampled				

Water Quality Laboratory Results Attached

Greenlawn Water District
PWS ID No. NY5103271
Project Progress Summary



Status as of: July 1 through September 30, 2022
Prepared by: H2M architects+engineers

Milestone Description	Original Schedule	Revised Schedule	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
Project No. 1 - Plant No. 12 AOP					
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	11/2022	N	Y	Performance testing laboratory results pending.
Project No. 2 - Plant No. 8 AOP					
Pilot Test	1/2021	6/2022	Y	Y	Pilot test exemption report complete.
Engineering Report	3/2021	8/2022	N	Y	Report submitted for regulatory review 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.
Project No. 3 - Plant No. 11 AOP					
Pilot Test	2/2021	4/2022	Y	Y	Pilot test exemption report included within Engineering Report.
Engineering Report	4/2021	5/2022	Y	Y	Report submitted for regulatory review in May 2022.
Design Complete	8/2021	10/2022	N	Y	Design near completion.
Start Construction	10/2021	12/2022	N	Y	
Complete Construction	11/2022	1/2024	N	Y	Expected startup and performance testing in January 2024.

Potential Issues/Concerns/Delays Explanation:

Project No. 1 is scheduled to be fully implemented during the fall 2022. Design of Project No. 3 will be soon be complete, with construction contracts released for bid in the fourth quarter. 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.