



architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747 | tel 631.756.8000

April 5, 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 – 1st Quarter 2023
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 first quarter of 2023 (January 1 through March 31, 2023).

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 first quarter of 2023, **all water delivered by the District was below the MCL for 1,4-Dioxane**. Well No. 3 suffered a mechanical failure in the previous quarter and remains out of service at this time. Well Nos. 6 and 12 were not used during the quarter due to construction projects but are expected to be returned to service in the second quarter.

Construction of the new AOP treatment system for Well No. 12 (Project No. 1) is complete, with the Approval of Completed Works issued by the health department. Construction contracts for AOP treatment at Well No. 11 (Project No. 3) were bid in February, with work expected to begin in April. The health department has issued comments to the design documents which have been responded to by the

engineer. Approval is expected shortly. Design work for AOP treatment at Well No. 8 (Project No. 2) is underway with construction contracts expected to be released for bid in the third quarter. Based on experiences with other similar projects, 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
Project Progress Summary



Status as of: January 1 through March 31, 2023
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	2/2023	Y	Y	Approval of Completed Works issued by NYSDOH on Feb. 2, 2023.
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	Y	Y	Report endorsed by health department in August 2022.
Design Complete	7/2021	6/2023	N	Y	
Start Construction	9/2021	9/2023	N	Y	
Complete Construction	10/2022	10/2024	N	Y	Expected startup and performance testing in autumn 2024.
Project No. 3 - Plant No. 11 AOP					
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	Y	Y	Plans submitted to health department in November 2022.
Start Construction	10/2021	4/2022	N	Y	Bids for construction contracts received February 2023.
Complete Construction	11/2022	3/2024	N	Y	Expected startup and performance testing in spring 2024.

Potential Issues/Concerns/Delays Explanation:

Project No. 1 is complete and approved to operate. The AOP treatment system is expected to be placed into service during the second quarter. Health Department approval of the design documents for Project No. 3 is expected shortly, with construction to begin in April. Design of Project No. 2 is in progress, with construction expected to begin in the third quarter.



575 Broad Hollow Road, Melville, NY 11747
 TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244187001
Client Sample ID.: S-14521

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/24/2023 10:00 AM Point S-14521
 Received : 01/24/2023 03:25 PM Location Well #4
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 9:28 AM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.15		1	ug/L	1	01/26/2023 4:17 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/26/2023 4:17 PM	001 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
 U - Indicates the compound was analyzed for, but not detected

Kimberley Mack

Test results meet the requirements of NELAC unless otherwise noted.

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Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 01/30/2023



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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244187002
Client Sample ID.: S-14579

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/24/2023 09:20 AM Point S-14579
 Received : 01/24/2023 03:25 PM Location Well #5
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 9:28 AM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.50		1	ug/L	1	01/26/2023 4:48 PM	002 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/26/2023 4:48 PM	002 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244187003
Client Sample ID.: S-18058

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/24/2023 10:45 AM Point S-18058
 Received : 01/24/2023 03:25 PM Location Well #6
 Collected By CLIENT

Sample Comments:
 RUN TO WASTE

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 9:28 AM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.28		1	ug/L	1	01/26/2023 5:20 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	79%		1	%REC		01/26/2023 5:20 PM	003 AG2R1/2

Qualifiers:

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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244187004
Client Sample ID.: S-23145

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/24/2023 09:00 AM Point S-23145
 Received : 01/24/2023 03:25 PM Location Well #9
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 9:28 AM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.11		1	ug/L	1	01/26/2023 5:36 PM	004 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	82%		1	%REC		01/26/2023 5:36 PM	004 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244187005
Client Sample ID.: S-23997

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/24/2023 11:20 AM Point S-23997
 Received : 01/24/2023 03:25 PM Location Well #10
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 9:28 AM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.30		1	ug/L	1	01/26/2023 5:52 PM	005 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	84%		1	%REC		01/26/2023 5:52 PM	005 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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WorkOrder :
70244187

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

WELL RUN TO SYSTEM

YES NO VOC'S PRESERVED WITH HCl

Date: 1-24-2023

Collected By: JST/NO

Accepted By: [Signature]

Cooler Temp: 3.2 °C

Sample Types

PW - Potable Water
GW - Groundwater
SW - Surface Water
WW - Waste Water
AQ - Aqueous
S - Soil

Purpose

RO - Routine
RE - Resample
S - Special

Origin

D - Distribution
RW - Raw Well
TW - Treated Well
T - Tank
MW - Monitoring Well
I - Influent
E - Effluent

Treatment Types

AST - Air Stripper
GAC - Granular Activated Charcoal
N - Nitrate Removal Plant
FE - Iron Removal Plant
O - Other

Client Info:

Name or Code: GREENLAWN WATER DISTRICT

Address: 45 Railroad St.

Greenlawn, New York 11740-1297

Phone #: 261-0874

Attn: R. SANTORIELLO

Proj. # or (Name): _____

Bill To: _____

Copies To: SCHD

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp	Analysis	Lab No.
10-00	PW	Well #4	RW		RO		1, 4-DIOXANE	
097.	"	5	"		"		"	
10-45	"	6	"		"		"	
091.00	"	8	"		"		"	
091.00	"	8	TW	GAC	"		"	
091.00	"	9	RW		"		"	
11.20	"	10	"		"		"	

Remarks: * WELL #3 OFF-LINE AT PRESENT - WELL #6 SAMPLE COLLECTED WITH WELL BLOWING OFF TO WASTE

WELL 8 0.05

Client Name: GIN

WO#: 70244187

PM: KMM Due Date: 02/06/23

CLIENT: GLN

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No - Seals intact: Yes No N/A

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: T1148 Correction Factor: + 0.1

Cooler Temperature [°C]: 3.2 Cooler Temperature Corrected [°C]: 3.3

Temp should be above freezing to 6.0°C

USDA Regulated Soil [N/A, water sample]

Temperature Blank Present: Yes No

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: SH 1/24/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico?: Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.	
Sufficient Volume: (Triple volume provided for IC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.	
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation?				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: Lot # of added: Date/Time preservative added: preservative:
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329001
Client Sample ID.: S-23998 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 09:30 AM Point S-23998 (R)
 Received : 01/25/2023 01:25 PM Location Well #11
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.68		1	ug/L	1	01/27/2023 1:44 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	82%		1	%REC		01/27/2023 1:44 PM	001 AG2R1/2

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Date Reported: 02/03/2023



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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329002
Client Sample ID.: S-23998 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 09:30 AM Point S-23998 (T)
 Received : 01/25/2023 01:25 PM Location Well #11
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.69		1	ug/L	1	01/27/2023 1:59 PM	002 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/27/2023 1:59 PM	002 AG2R1/2

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Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329003
Client Sample ID.: S-29852 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 11:00 AM Point S-29852 (R)
 Received : 01/25/2023 01:25 PM Location Well #13
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.21		1	ug/L	1	01/27/2023 2:15 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	84%		1	%REC		01/27/2023 2:15 PM	003 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Kimberley Mack

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Date Reported: 02/03/2023



575 Broad Hollow Road, Melville, NY 11747
 TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329004
Client Sample ID.: S-29852 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 11:00 AM Point S-29852 (T)
 Received : 01/25/2023 01:25 PM Location Well #13
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.21		1	ug/L	1	01/27/2023 2:47 PM	004 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/27/2023 2:47 PM	004 AG2R1/2

Qualifiers:

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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329005
Client Sample ID.: S-37100

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 10:00 AM Point S-37100
 Received : 01/25/2023 01:25 PM Location Well #14
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.22		1	ug/L	1	01/27/2023 3:03 PM	005 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/27/2023 3:03 PM	005 AG2R1/2

Qualifiers:

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329006
Client Sample ID.: S-80073

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 09:00 AM Point S-80073
 Received : 01/25/2023 01:25 PM Location Well #15
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.32		1	ug/L	1	01/27/2023 3:18 PM	006 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	82%		1	%REC		01/27/2023 3:18 PM	006 AG2R1/2

Qualifiers:

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329007
Client Sample ID.: S-123715

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 09:00 AM Point S-123715
 Received : 01/25/2023 01:25 PM Location Well #17
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.076		1	ug/L	1	01/27/2023 3:34 PM	007 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/27/2023 3:34 PM	007 AG2R1/2

Qualifiers:

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 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329008
Client Sample ID.: Well #18

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 10:00 AM Point Well #18
 Received : 01/25/2023 01:25 PM Location Well #18
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.20		1	ug/L	1	01/27/2023 3:50 PM	008 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	84%		1	%REC		01/27/2023 3:50 PM	008 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329009
Client Sample ID.: S-29852 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 11:00 AM Point S-29852 (R)
 Received : 01/25/2023 01:25 PM Location Well #13
 Collected By CLIENT

Analytical Method: EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	01/31/2023 11:15	009 VG9C1/2
1,2-Dibromoethane (EDB)	0.061*		1	ug/L	0.05	01/31/2023 11:15	009 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	99%		1	%REC		01/31/2023 11:15	009 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		01/31/2023 11:15	009 VG9C1/2
Surr: tert Butyl Methyl-d3 Ether (S)	99%		1	%REC		01/31/2023 11:15	009 VG9C1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244329010
Client Sample ID.: S-29852 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 11:00 AM Point S-29852 (T)
 Received : 01/25/2023 01:25 PM Location Well #13
 Collected By CLIENT

Analytical Method: EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	01/31/2023 11:41	010 VG9C1/2
1,2-Dibromoethane (EDB)	<0.010		1	ug/L	0.05	01/31/2023 11:41	010 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	99%		1	%REC		01/31/2023 11:41	010 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		01/31/2023 11:41	010 VG9C1/2
Surr: tert Butyl Methyl-d3 Ether (S)	99%		1	%REC		01/31/2023 11:41	010 VG9C1/2

Qualifiers:

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 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Date Reported: 02/03/2023



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www.pacelabs.com

WorkOrder :
70244329

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70244329



70244329

Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

WELL RUN TO SYSTEM

Date: 1/25/23

Collected By: JS NA, K.P

Accepted By: *[Signature]* 13:25

Cooler Temp: 13.1 °C

YES NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: GREENLAWN WATER DISTRICT

Address: 45 Reitroad St. Greenlawn, New York 11740-1297

Phone #: 261-0874

Attn: R. SantorIELLO

Proj. # or (Name):

Bill To: SCHD

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp	Analysis	Lab No.
09:17	PW	WELL	RW	GAC	RO		1,4-DIOXANE	
09:30			TW		"		"	
11:00			RW		"		"	
11:00			TW	GAC	"		"	
10:00			RW		"		"	
09:00			"		"		"	
09:00			"		"		"	
10:00			"		"		"	
	AW	WELL	RW		RO		524.3	
			TW	GAC	"		"	

Remarks: * WELL #12 OFF-LINE AT PRESENT

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No - Seals intact: Yes No N/A

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: T1148 Correction Factor: + 0.1

Cooler Temperature [°C]: 13.1 Cooler Temperature Corrected [°C]: 13.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Temperature Blank Present: Yes No

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: JH 1/25

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source including Hawaii and Puerto Rico?: Yes No

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID, Matrix: SL, VI, OIL		
All containers needing preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332001
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

<u>Analytical Method:</u> SM22 9223B Colilert		<u>Prep Method:</u> SM22 9223B Colilert			<u>Prep Date:</u> 01/25/2023 5:58 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
E.coli	Absent		1		Absent	01/26/2023 11:58	001 SP5T1/1
Total Coliforms	Absent		1		Absent	01/26/2023 11:58	001 SP5T1/1

Qualifiers:

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Date Reported: 02/08/2023



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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332002
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (T)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

<u>Analytical Method:</u> SM22 9223B Colilert		<u>Prep Method:</u> SM22 9223B Colilert			<u>Prep Date:</u> 01/25/2023 5:58 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
E.coli	Absent		1		Absent	01/26/2023 11:58	002 SP5T1/1
Total Coliforms	Absent		1		Absent	01/26/2023 11:58	002 SP5T1/1

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Date Reported: 02/08/2023



575 Broad Hollow Road, Melville, NY 11747
 TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332003
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.79		1	ug/L	1	01/27/2023 6:12 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	87%		1	%REC		01/27/2023 6:12 PM	003 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
 U - Indicates the compound was analyzed for, but not detected

Kimberley Mack

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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332004
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (T)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 01/26/2023 1:23 PM		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane (p-Dioxane)	0.67		1	ug/L	1	01/27/2023 6:28 PM	004 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	82%		1	%REC		01/27/2023 6:28 PM	004 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332005
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Analytical Method: EPA 533		Prep Method: EPA 533			Prep Date: 01/31/2023 11:35		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
11CI-PF3OUdS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
4:2 FTS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
6:2 FTS	<3.5		1	ng/L		02/03/2023 11:53	005 BP351/3
8:2 FTS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
9CI-PF3ONS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
ADONA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
HFPO-DA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
NFDHA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFBA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFEESA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFHpS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFMBA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFMPA	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
PFPeA	2.6		1	ng/L		02/03/2023 11:53	005 BP351/3
PFPeS	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorobutanesulfonic acid	1.9		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorodecanoic acid	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorododecanoic acid	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluoroheptanoic acid	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorohexanesulfonic acid	2.9		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorohexanoic acid	2.0		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorononanoic acid	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Perfluorooctanesulfonic acid	2.0		1	ng/L	10	02/03/2023 11:53	005 BP351/3
Perfluorooctanoic acid	<1.7		1	ng/L	10	02/03/2023 11:53	005 BP351/3
Perfluoroundecanoic acid	<1.7		1	ng/L		02/03/2023 11:53	005 BP351/3
Surr: 13C2-PFDoA (S)	67%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C24:2FTS (S)	95%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C26:2FTS (S)	100%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C28:2FTS (S)	98%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C3-PFBS (S)	84%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C3-PFHxS (S)	83%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C3HFPO-DA(S)	64%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C4-PFBA (S)	72%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C4-PFHpA (S)	69%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C5-PFHxA (S)	66%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C5-PFPeA (S)	67%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C6-PFDA (S)	71%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C7-PFUdA (S)	70%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C8-PFOA (S)	69%		1	%REC		02/03/2023 11:53	005 BP351/3
Surr: 13C8-PFOS (S)	84%		1	%REC		02/03/2023 11:53	005 BP351/3

Qualifiers:

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 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Kimberley Mack

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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332005
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Surr: 13C9-PFNA (S)	71%	1	%REC	02/03/2023 11:53	005 BP351/3
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Qualifiers:

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Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332006
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello

Federal ID : 5103271

Collected : 01/25/2023 12:00 PM Point S-21134 (T)

Received : 01/25/2023 01:25 PM Location Well #8

Collected By CLIENT

Analytical Method: EPA 533		Prep Method: EPA 533			Prep Date: 01/31/2023 11:35		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
11CI-PF3OUdS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
4:2 FTS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
6:2 FTS	<3.5		1	ng/L		02/03/2023 12:10	006 BP351/3
8:2 FTS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
9CI-PF3ONS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
ADONA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
HFPO-DA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
NFDHA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFBA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFEESA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFHpS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFMBA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFMPA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFPeA	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
PFPeS	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorobutanesulfonic acid	2.0		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorodecanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorododecanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluoroheptanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorohexanesulfonic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorohexanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorononanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Perfluorooctanesulfonic acid	<1.7		1	ng/L	10	02/03/2023 12:10	006 BP351/3
Perfluorooctanoic acid	<1.7		1	ng/L	10	02/03/2023 12:10	006 BP351/3
Perfluoroundecanoic acid	<1.7		1	ng/L		02/03/2023 12:10	006 BP351/3
Surr: 13C2-PFDoA (S)	64%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C24:2FTS (S)	86%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C26:2FTS (S)	99%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C28:2FTS (S)	98%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C3-PFBS (S)	84%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C3-PFHxS (S)	84%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C3HFPO-DA(S)	57%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C4-PFBA (S)	63%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C4-PFHpA (S)	65%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C5-PFHxA (S)	63%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C5-PFPeA (S)	61%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C6-PFDA (S)	70%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C7-PFUdA (S)	68%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C8-PFOA (S)	67%		1	%REC		02/03/2023 12:10	006 BP351/3
Surr: 13C8-PFOS (S)	83%		1	%REC		02/03/2023 12:10	006 BP351/3

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332006
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (T)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Surr: 13C9-PFNA (S) 69% 1 %REC 02/03/2023 12:10 006 BP351/3

Qualifiers:

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332007
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Analytical Method:EPA 353.2

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Nitrate as N	5.4		5	mg/L	10	01/26/2023 11:44	007 BP4U1/1
Nitrate-Nitrite (as N)	5.4		5	mg/L		01/26/2023 11:44	007 BP4U1/1

Analytical Method:EPA 353.2

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Nitrite as N	<0.050		1	mg/L	1	01/26/2023 9:58 PM	007 BP4U1/1

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332008
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (T)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	5.5		5	mg/L	10	01/26/2023 11:45	008 BP4U1/1
Nitrate-Nitrite (as N)	5.5		5	mg/L		01/26/2023 11:45	008 BP4U1/1

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	01/26/2023 9:59 PM	008 BP4U1/1

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332009
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1,1-Trichloroethane	0.67		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1,2-Trichlorotrifluoroethane	1.0	IH,N3	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1-Dichloroethane	1.2		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1-Dichloroethene	0.82		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2,3-Trichloropropane	0.66		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,2-Dichloropropane	0.73		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Acetone	<2.0	N3	1	ug/L	50	01/28/2023 9:52 AM	009 VG9C1/2
Benzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		01/28/2023 9:52 AM	009 VG9C1/2
Bromoform	<0.50		1	ug/L		01/28/2023 9:52 AM	009 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L2,v3	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Chloroform	<0.50		1	ug/L		01/28/2023 9:52 AM	009 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		01/28/2023 9:52 AM	009 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Dichlorodifluoromethane	<0.50	L2	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
 U - Indicates the compound was analyzed for, but not detected
 See qualifiers page for additional qualifier definitions.

Kimberley Mack

Kimberley Mack

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 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.



575 Broad Hollow Road, Melville, NY 11747
 TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Raw Well
 Routine

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332009
Client Sample ID.: S-21134 (R)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (R)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	01/28/2023 9:52 AM	009 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Styrene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Tetrachloroethene	23.1*	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Toluene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	01/28/2023 9:52 AM	009 VG9C1/2
Trichloroethene	12.9*	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	01/28/2023 9:52 AM	009 VG9C1/2
cis-1,2-Dichloroethene	0.70	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	01/28/2023 9:52 AM	009 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	92%	1	%REC		01/28/2023 9:52 AM	009 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	83%	1	%REC		01/28/2023 9:52 AM	009 VG9C1/2

Qualifiers:

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 ND - Not Detected at or above adjusted reporting limit.
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range
 U - Indicates the compound was analyzed for, but not detected
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Kimberley Mack

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Laboratory Results

Results for the samples and analytes requested
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332010
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello

Federal ID : 5103271

Collected : 01/25/2023 12:00 PM Point S-21134 (T)

Received : 01/25/2023 01:25 PM Location Well #8

Collected By CLIENT

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1-Dichloroethane	1.2		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Acetone	<2.0	N3	1	ug/L	50	01/28/2023 9:25 AM	010 VG9C1/2
Benzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		01/28/2023 9:25 AM	010 VG9C1/2
Bromoform	<0.50		1	ug/L		01/28/2023 9:25 AM	010 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L2,v3	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Chloroform	<0.50		1	ug/L		01/28/2023 9:25 AM	010 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		01/28/2023 9:25 AM	010 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Dichlorodifluoromethane	<0.50	L2	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2

Qualifiers:

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ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

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Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Kimberley Mack

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Laboratory Results

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Sample Information:

Type: Drinking Water
 Origin: Treated Well
 Routine

Treatment

GAC

Greenlawn Water District
45 Railroad Street
Greenlawn, NY 11740

Lab No. : 70244332010
Client Sample ID.: S-21134 (T)

Attn To : Bob Santoriello
 Federal ID : 5103271
 Collected : 01/25/2023 12:00 PM Point S-21134 (T)
 Received : 01/25/2023 01:25 PM Location Well #8
 Collected By CLIENT

Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	01/28/2023 9:25 AM	010 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Styrene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Tetrachloroethene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Toluene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	01/28/2023 9:25 AM	010 VG9C1/2
Trichloroethene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	01/28/2023 9:25 AM	010 VG9C1/2
cis-1,2-Dichloroethene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	01/28/2023 9:25 AM	010 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	91%	1	%REC		01/28/2023 9:25 AM	010 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	82%	1	%REC		01/28/2023 9:25 AM	010 VG9C1/2

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WorkOrder :
70244332

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity



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WorkOrder :
70244332

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302



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WorkOrder :
70244332

Additional Qualifiers

IH - This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 - The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.



Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

WELL RUN TO SYSTEM

YES NO VOC'S PRESERVED WITH HCl

Date: 1/25/2023

Collected By: NA

Accepted By: *David P-LI, 13:25*

Cooler Temp: 10.1 °C *(W)*

Client Info:

Name or Code: GREENLAWN WATER DISTRICT
Address: 45 Railroad Street
Greenlawn, NY 11740
Tel. 631-261-0874

Phone #: _____
Attn: Bob Santonello / Frank DeMayo
Proj. # or (Name): _____
Bill To: _____
Copies To: S.C.H.D

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂	pH/Temp	Analysis	Lab No.
1/25/2022	PW	Well # 8	RW					T.C	
1/25/2022	"	"	TW	GAC				"	
"	"	"	RW					1,4-Dioxane	
"	"	"	TW	GAC				"	
"	"	"	RW					PFAS-533-Report Full list	
"	"	"	TW	GAC				"	
"	"	"	RW					Nitrate	
"	"	"	TW	GAC				"	
"	"	"	RW					VOC	
"	"	"	TW	GAC				"	

Remarks:

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No - Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: T1148 Correction Factor: + 0.1

Cooler Temperature (°C): 13.1 Cooler Temperature Corrected (°C): 13.2

Type of Ice: Wet Blue None
 Samples on ice, cooling process has begun
Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: SH 1/25

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	Yes	No	N/A	COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/>	<input type="checkbox"/>		6.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>		7.
Sufficient Volume: (Triple volume provided for):	<input checked="" type="checkbox"/>	<input type="checkbox"/>		8.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		12.
-Includes date/time/ID, Matrix: SL <u>WT OIL</u>				
All containers needing preservation have been checked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NAOH > 12 Cyanide)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 [water].				
Per Method, VOA pH is checked after analysis				Initial when completed: _____ Lot # of added: _____ Date/Time preservative added: _____
Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.