

April 7, 2023

Jericho Water District
PWS ID No. NY2902831
MCL Deferral for 1,4-Dioxane
Quarterly Report – First Quarter 2023

Introduction

On behalf of the Jericho Water District (JWD or District), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane. The District was granted an MCL deferral for 1,4-dioxane in 2020. JWD was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds.

The last three years have been a time of unprecedented disruption in the supply chain of chemical supplies, equipment, infrastructure components, pipe and materials (e.g., steel), and treatment systems. Contractors and water suppliers, locally and nationwide, have been impacted by these issues in completing both small-scale and large-scale projects. Shortages of necessary items have significantly impacted the District, primarily in terms of price increases, decreased availability, and longer lead times. In addition, due to the rapidly changing regulatory environment through an expanded list of contaminants with lower regulatory advisory levels or MCLs, local and state regulators are experiencing a large number of capital project submissions, in addition to their regular responsibilities. This increased workload has led to longer regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors, which are out of the District's control, have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to proposed construction schedules.

The District has done everything within its power to adhere to the project schedules approved in the original deferral request, as described in the previous quarterly deferral reports. The wide reach of the impact of supply chain issues and delays was not known at the time of the original compliance deferrals and as such, these delays were expected to become worse before improving because of increased national demand. Recognizing these exceptional circumstances, the District requested and received a 12-month deferral renewal, which extended our MCL compliance deadline to August 25, 2023.

Despite the challenges of the current supply chain along with the ever-changing regulatory environment, the District has worked tirelessly to preserve the quality of its drinking water. There are currently four different treatment plants being constructed specifically for the removal of 1,4-dioxane from seven District wells. The combined cost of these projects is greater than \$50 million

and this does not include the other construction projects that the District currently has ongoing to enhance other components of its water infrastructure.

In light of these on-going circumstances, the District has submitted to the NYSDOH a request for a 12-month deferral renewal, ending on August 25, 2024, as well as additional time consideration in completing the projects under the impacts caused by these supply chain issues. The District's goal, as always, is to provide an adequate supply of potable water to its community and will continue to move forward on these projects to further that goal.

The following is a report describing JWD's progress towards maintaining the highest quality of water for our customers and meeting the deadlines set forth in the deferral approval. Updated schedules for each project are contained in **Attachment A**.

Corrective Action Plan Milestones

Wells 9 and 14

Construction of the new treatment plant continues to progress. The block walls have been erected and the roof installation is complete. Contractors continue to work on the plumbing, mechanical, and electrical systems. The advanced oxidation process (AOP) treatment equipment has been delivered and is installed in the building. Current substantial completion of the June 2023 deadline may be adversely impacted, with supply chain issues delaying the delivery of electrical components.

Although it has been granted a deferral, JWD has been able to minimize the usage of these wells during the period of this report.

Wells 20 and 21

This project is currently in the construction phase. The NCDH and the NYSDOH issued approval of the Engineering Report during August and September 2022. The District is in the process of responding to comments on the contract documents from the NCDH and is awaiting comments on the documents from the NYSDOH. Site work has commenced and the granular activated carbon (GAC) equipment has been installed with carbon scheduled for delivery in late April 2023. Contractors are pursuing Phase 1 work which will allow the existing facility to operate throughout the summer through the carbon. The District intends to blend the effluent from the site to address potential exceedances of 1,4-dioxane present in Well 20. Through the installation of an interlock, Well 20 will not be permitted to start without Well 21 operating. The final completion is scheduled for February 2024 although it may be later due to electrical equipment supply chain delays and regulatory review delays.

Even though it has been granted a deferral, the JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue

to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

Well 22

This project is currently in the pre-construction phase. The NCDH and NYSDOH has issued approval of the Engineering Report in October 2022. The District is currently responding to comments on the contract documents from the NCDH and NYSDOH. The project was bid and bids for the construction contracts were awarded in January 2023. A pre-construction meeting has been completed. The construction of the AOP facility is expected to begin no sooner than late August 2023 at which point the well will be removed from service for the duration of the contract.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of this well to the greatest extent practicable while meeting system demands. Once the construction of this project begins, the well will be removed from service for the duration of construction due to the nature of the improvements. The work is anticipated to be complete, returning the well to service, in advance of the 2024 peak pumping season.

Wells 25 and 26 (Kirby Lane Facility)

This project is currently in the construction phase. The District received NCDH approval of the engineering report in September 2021. The District received NCDH approval of the detailed design documents on July 12, 2022 and NYSDOH approval of the engineering report and detailed design documents on July 25, 2022. Construction has been progressing on-site. The building exterior and roof have been completed and interior work is ongoing for all construction trades. The electrical contractor is awaiting a few pieces of electrical equipment necessary to connect the site to permanent power. The District expects to have the full treatment plant operational by late summer of 2023.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

Public Notification

In accordance with the terms of the deferral, JWD has maintained an open line of communication with the public regarding its deferral. The deferral public notification documentation and the previous quarterly reports are still featured prominently on the District website.

Analytical Sampling

Sample results for the wells for which deferrals were granted (Wells 9, 14, 21, and 22) taken during the first quarter of 2023 are contained in the below table. Wells 20, 25, and 26 were not sampled during this quarter. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-Dioxane (parts per billion, ppb)

Well	Date		
	January 2023	February 2023	March 2023
Well 9 (N-4245)	1.0	NS	NS
Well 14 (N-6651)	2.7	NS	NS
Well 20 (N-10149)	NS	NS	NS
Well 21 (N-12795)	0.57	NS	NS
Well 22 (N-7781)	0.27	NS	NS
Well 25 (N-8355)	NS	NS	NS
Well 26 (N-13119)	NS	NS	NS

NS - Not Sampled

Conclusion

As demonstrated above, JWD is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. The District looks forward to continuing to work towards completion of its treatment facilities.

Should you have any questions, please contact the superintendent, Peter F. Logan at 516-921-8280 or visit the website, www.jerichowater.org.

Very truly yours,

Board of Commissioners
Jericho Water District

Enclosures

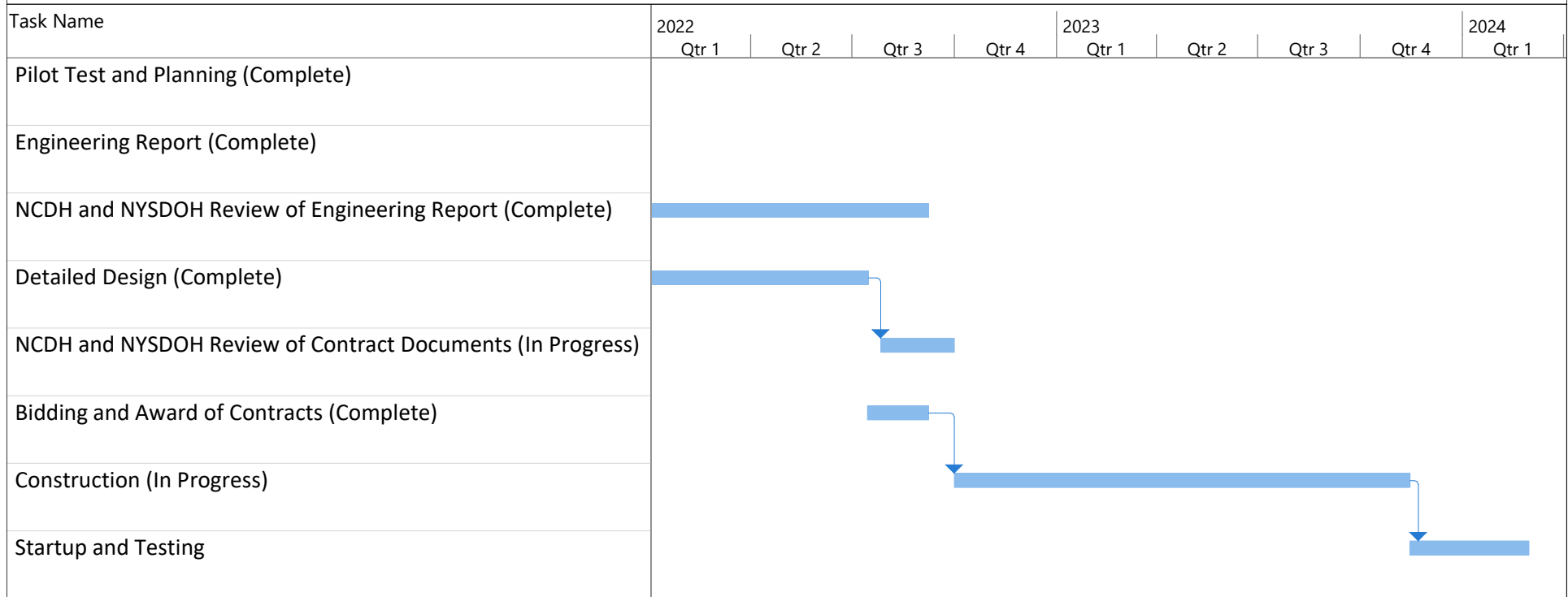
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Logan (JWD)
B. Merklin (D&B)
M. Savarese (D&B)
L. Ortiz (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

Task Name	2022				2023		
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
Pilot Test and Planning (Complete)							
Engineering Report (Complete)							
NCDH and NYSDOH Review of Engineering Report (Complete)							
Detailed Design (Complete)							
NCDH and NYSDOH Review of Contract Documents (Complete)	█						
Bidding and Construction (In Progress)		█					
Startup and Testing					█		





Task Name	2022				2023				2024
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
Pilot Test and Planning (Complete)									
Engineering Report (Complete)									
NCDH and NYSDOH Review/Approval of Engineering Report (Complete)									
Detailed Design (Complete)									
NCDH and NYSDOH Review of Contract Documents (In Progress)									
Bidding (Complete) and Construction									
Startup and Testing									



Task Name	2022				2023			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Pilot Test (Complete)								
Engineering Report (Complete)								
NCDH and NYSDOH Review of Engineering Report (Complete)								
Detailed Design (Complete)								
NCDH and NYSDOH Review of Contract Documents (Complete)								
Bidding and Construction (In Progress)								
Startup and Testing								

ATTACHMENT B

Water Quality Data



575 Broad Hollow Road, Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
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

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243042005
Client Sample ID.: N-07781

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 12:05 PM Point N-07781

Received : 01/12/2023 02:30 PM Location Well 22

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.27	1		ug/L	1	01/16/2023 9:40 PM	005 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	86%		1	%REC		01/16/2023 9:40 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
 U - Indicates the compound was analyzed for, but not detected

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Date Reported: 01/17/2023



575 Broad Hollow Road, Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
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

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243042006
Client Sample ID.: N-04245

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 12:48 PM Point N-04245

Received : 01/12/2023 02:30 PM Location Well 9

Collected By CLIENT

Analytical Method: EPA 522		Prep Method: EPA 522			Prep Date: 01/16/2023 10:17		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	1.0	1		ug/L	1	01/16/2023 9:56 PM	006 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	83%		1	%REC		01/16/2023 9:56 PM	006 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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

Date Reported: 01/17/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



575 Broad Hollow Road, Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
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

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243042007
Client Sample ID.: N-06651

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 01:03 PM Point N-06651

Received : 01/12/2023 02:30 PM Location Well 14

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Analytical Method: EPA 522		Prep Method: EPA 522			Prep Date: 01/16/2023 10:17		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	2.7*		1	ug/L	1	01/16/2023 10:12	007 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	93%		1	%REC		01/16/2023 10:12	007 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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

Date Reported: 01/17/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

WorkOrder :
70243042

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#: 70243042



70243042

575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form PUBLIC WATER SUPPLIER

Date: 1-12-23

Collected By: TK

Accepted By: Ju PLLB 14:30

Cooler Temp: 0.6 °C (B)

WELL OFF LINE Rain to Waste

11, 7, 31, 22, 14

WELL RUN TO SYSTEM

27, 9

YES NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

Address: 125 Convent Rd

Syosset N.Y 11791

Phone #: (516) 921-8280

Attn: _____

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp		Analysis	Lab No.
1-12-23 0912	PW	well #27 N-08713	RW		RO	Ø		1,4 Dioxane	
1-12-23 TK	PW	well #28 N-14003	RW		RO	Ø		" "	TK 1/12/23
1-12-23 0955	PW	well #11 N-05201	RW		RO	Ø		" "	
1-12-23 1036	PW	well #7 N-03475	RW		RO	Ø		" "	
1-12-23 1112	PW	well #31 N-13268	RW		RO	Ø		" "	
1-12-23 1205	PW	well #22 N-07781	RW		RO	Ø		" "	
1-12-23 1248	PW	well #9 N-04245	RW		RO	Ø		" "	
1-12-23 1303	PW	well #14 N-06651	RW		RO	Ø		" "	

Remarks:

Client Name: JWD

Project

WO#: 70243042

PM: JSA

Due Date: 01/25/23

CLIENT: JWD

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]: 0.6 Cooler Temperature Corrected [°C]: 0.7

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

Temp should be above freezing to 6.0°C USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: JH 1/12

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)	<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: <u>SL WT OIL</u>		
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).		Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Per Method, VOA pH is checked after analysis		
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:

Person Contacted:

Comments/ Resolution:

Field Data Required? Y / N

Date/Time: _____



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

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243056003
Client Sample ID.: N-12795

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 09:30 AM Point N-12795

Received : 01/12/2023 02:30 PM Location Well 21

Collected By CLIENT

Analytical Method: EPA 522		Prep Method: EPA 522			Prep Date: 01/16/2023 10:17		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.57	1		ug/L	1	01/16/2023 10:59	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	88%		1	%REC		01/16/2023 10:59	003 AG2R1/2

Analytical Method: EPA 533		Prep Method: EPA 533			Prep Date: 01/24/2023 9:56 AM		
Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
11Cl-PF3OUdS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
4:2 FTS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
6:2 FTS	<3.8		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
8:2 FTS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
9Cl-PF3ONS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
ADONA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
HFPO-DA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
NFDHA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFBA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFEESA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFHpS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFMBA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFMPA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFPeA	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
PFPeS	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorobutanesulfonic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorodecanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorododecanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluoroheptanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorohexanesulfonic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorohexanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorononanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Perfluorooctanesulfonic acid	<1.9		1	ng/L	10	01/24/2023 9:49 PM	003 BP351/2
Perfluorooctanoic acid	<1.9		1	ng/L	10	01/24/2023 9:49 PM	003 BP351/2
Perfluoroundecanoic acid	<1.9		1	ng/L		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C2-PFDoA (S)	56%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C24:2FTS (S)	94%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C26:2FTS (S)	109%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C28:2FTS (S)	111%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C3-PFBS (S)	110%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C3-PFHxS (S)	110%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C3HFPO-DA(S)	66%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C4-PFBA (S)	68%		1	%REC		01/24/2023 9:49 PM	003 BP351/2
Surr: 13C4-PFHpA (S)	66%		1	%REC		01/24/2023 9:49 PM	003 BP351/2

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Date Reported: 02/02/2023



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

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243056003
Client Sample ID.: N-12795

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 09:30 AM Point N-12795

Received : 01/12/2023 02:30 PM Location Well 21

Collected By CLIENT

Surr: 13C5-PFHxA (S)	67%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C5-PFPeA (S)	70%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C6-PFDA (S)	51%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C7-PFUdA (S)	49%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C8-PFOA (S)	64%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C8-PFOS (S)	106%	1	%REC	01/24/2023 9:49 PM	003 BP351/2
Surr: 13C9-PFNA (S)	58%	1	%REC	01/24/2023 9:49 PM	003 BP351/2

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

Date Reported: 02/02/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



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: Other
 Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243056004
Client Sample ID.: N-12795 FB

Attn To : Peter Logan

Federal ID : 2902831

Collected : 01/12/2023 09:30 AM Point N-12795 FB

Received : 01/12/2023 02:30 PM Location

Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
11CI-PF3OUdS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
4:2 FTS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
6:2 FTS	<3.6	L1	1	ng/L		01/21/2023 1:03 AM	004 BP351/1
8:2 FTS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
9CI-PF3ONS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
ADONA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
HFPO-DA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
NFDHA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFBA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFEESA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFHpS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFMBA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFMPA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFPeA	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
PFPeS	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorobutanesulfonic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorodecanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorododecanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluoroheptanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorohexanesulfonic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorohexanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorononanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	01/21/2023 1:03 AM	004 BP351/1
Perfluorooctanoic acid	<1.8		1	ng/L	10	01/21/2023 1:03 AM	004 BP351/1
Perfluoroundecanoic acid	<1.8		1	ng/L		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C2-PFDoA (S)	68%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C24:2FTS (S)	102%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C26:2FTS (S)	116%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C28:2FTS (S)	108%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C3-PFBS (S)	87%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C3-PFHxS (S)	91%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C3HFPO-DA(S)	65%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C4-PFBA (S)	81%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C4-PFHpA (S)	76%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C5-PFHxA (S)	74%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C5-PFPeA (S)	73%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C6-PFDA (S)	79%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C7-PFUdA (S)	74%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C8-PFOA (S)	81%		1	%REC		01/21/2023 1:03 AM	004 BP351/1
Surr: 13C8-PFOS (S)	90%		1	%REC		01/21/2023 1:03 AM	004 BP351/1

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

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Date Reported: 02/02/2023



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: Other
 Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70243056004
Client Sample ID.: N-12795 FB

Attn To : Peter Logan
 Federal ID : 2902831
 Collected : 01/12/2023 09:30 AM Point N-12795 FB
 Received : 01/12/2023 02:30 PM Location
 Collected By CLIENT

Surr: 13C9-PFNA (S) 83% 1 %REC 01/21/2023 1:03 AM 004 BP351/1

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Date Reported: 02/02/2023



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

WorkOrder :
70243056

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



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

WorkOrder :
70243056

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#: 70243056



70243056

Sample Request Form PUBLIC WATER SUPPLIER

Date: 1/12/23

Collected By: AL

Accepted By: Jane ALI 14:30

Cooler Temp: 0.8 °C (9)

WELL OFF LINE _____
17, 23

WELL RUN TO SYSTEM _____

YES NO VOC'S PRESERVED WITH HCl
21, 12

Client Info:

Name or Code: Jencho Water

Address: 125 Convent Rd

Syosset, NY

Phone #: 516-921-8280

Attn: _____

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings		Analysis	Lab No.
						Cl ₂	pH/Temp		
9:15 1/12/23	PW	Well 17 N-07593	RW		RO			1,4 Dioxane	
9:15 1/12/23		Well 17 N-07593						Pfos/pfoa 533 method w/FB	
9:30 1/12/23		Well 21 N-12795						1,4 Dioxane	
9:30 1/12/23		Well 21 N-12795						Pfos/pfoa 533 method w/FB	
10:00 1/12/23		Well 12 N-06092						1,4 Dioxane	
10:00 1/12/23		Well 12 N-06092						Pfos/pfoa 533 w/FB	
10:30 1/12/23		Well 23 N-08043						1,4 Dioxane	
10:30 1/12/23		Well 23 N-08043						Pfoa/pfos 533 method w/FB	

Remarks:

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): 0.6 Cooler Temperature Corrected(°C): 0.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 1/12 KMS

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for I)	<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 checked="" 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: <u>SL WT DIL</u>		
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 checked="" 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, DRD/BO15 (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 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: