

October 1, 2024

Jericho Water District
PWS ID No. NY2902831
MCL Exemption for 1,4-Dioxane
Quarterly Report – Third Quarter 2024

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 exemptions from maximum contaminant level (MCL) violations for 1,4-dioxane. The District was granted an MCL deferral for 1,4-dioxane in 2020, which was renewed in 2022 with the expiration of the renewal in August 2023. JWD was granted an exemption in August 2023 because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds. This exemption expired in August 2024, and JWD submitted for an extension for the MCL exemption that extends the compliance deadline until August 2025 to allow for time to complete and place into service multiple treatment projects. Due to a typographical error in the request, JWD received an extension until April 2025. JWD is pursuing the time associated with the full extension request, i.e., until August 2025.

The last four 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 the construction schedules proposed in the District's original application for a deferral.

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, and a 12-month exemption, which extended our MCL compliance deadline to August 25, 2024. However, the supply chain issues and delays did not lessen and, therefore, additional time was necessary to achieve compliance. As such, the District requested a second 12-month exemption to extend its MCL compliance deadline. As noted earlier, due to a

typographical error in the request, JWD received an extension until April 2025. JWD is pursuing the time associated with the full extension request, i.e., until August 25, 2025.

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 at various stages of completion for the treatment and removal of 1,4-dioxane from seven of the District's wells. Treatment has been approved for operation at four of these wells. The combined cost of these projects is greater than \$50 million, and this cost does not include the other construction projects that the District currently has ongoing to enhance other components of its water infrastructure.

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 working to meet the deadlines set forth in the original deferral approval. Updated schedules for each project are contained in **Attachment A**.

Corrective Action Plan Milestones

Wells 9 and 14

The NYSDOH issued an Approval of Completed Works for the project in May 2024. The new AOP and GAC treatment systems were authorized to be placed online on May 20, 2024.

Although it was granted an exemption, JWD was able to minimize the usage of these wells during previous quarters until the new treatment was online. These wells have been used and are operating to the distribution system using the new treatment in compliance with the adopted MCLs.

Wells 20 and 21

This project is currently in the construction phase with approximately 70% of the work completed. The Nassau County Department of Health (NCDH) and NYSDOH issued approval of the engineering report during August and September 2022 and of the design plans in June and July 2023. The remaining work consists of the full electrical upgrade from PSEG, installation of the motor control center (MCC), some minor electrical work in both Wells 20 and 21, HVAC installation in the AOP building, and site restoration. Optimal testing of the AOP will be performed when the GAC vessels are completely filled, and the motor starters are installed. The electrical equipment and service gear originally scheduled for delivery in late September 2024 has been pushed back again to early October 2024. Even though the District is working with its contractor, vendors, and manufacturers to bring the project to completion as quickly as possible, it may not be able to return the site to full operation until early 2025.

Even though it has been granted an exemption, JWD placed Well 21 on standby for most of 2024 pumping season and utilized Well 20 through continued monitoring and the minimization strategy for the usage of these wells to the greatest extent practicable while continuing to meet system

demands. Well 21 has not been operated into the distribution system since July 2024, due to insufficient electrical supply as a result of the existing undersized electrical service and will not be returned to service until the new upgraded electrical work is completed. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of Well 20, if needed, should the concentration exceed the MCL.

Well 22

This project is currently in the construction phase. The NCDH and NYSDOH issued approval of the engineering report in October 2022 and approval of the design specifications and plans in November 2023. The general construction contract of the project was re-bid, and bids were received on March 15, 2024. The building floor slab has been completed and installation of the caustic tank, basement piping and GAC delivery is scheduled for early October 2024. The electrical and plumbing contractors will commence work in the building basement in upcoming weeks. The general contractor will begin the walls of the building to enclose it before the end of 2024. The well has been removed from service and will continue to be for the duration of construction. The well, with treatment installed, is anticipated to be returned to service in the 2025 pumping season.

Wells 25 and 26 (Kirby Lane Facility)

This project is in the final phase of construction. 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. NCDH completed a walkthrough of the facility on July 22, 2024, and provided comments on July 23, 2024. NCDH collected the confirmatory samples on July 29, 2024. A response to the NCDH walkthrough comments was provided on July 30, 2024. NCDH recommendation of approval was made to NYSDOH on August 2, 2024. NYSDOH approval to operate was received on August 2, 2024. The station has been operating through the approved treatment system since NYSDOH approval was received.

Although it was granted an exemption, JWD monitored and minimized the usage of these wells during construction to the greatest extent practicable while meeting system demands.

Public Notification

In accordance with the terms of the exemption, JWD has maintained an open line of communication with the public regarding its exemption. The exemption public notification documentation and the previous deferral and exemption quarterly reports are still featured prominently on the District website. The 2024 exemption extension was published in the District newspaper of record as well as on their website on September 6, 2024.

Analytical Sampling

Sample results for Wells 20 and 21 (two of the wells for which the exemption was granted) taken during the third quarter of 2024 are contained in the table below. Full laboratory reports for each

sample are contained in **Attachment B**. Wells 9, 14, 22, 25 and 26 were not sampled during the third quarter of 2024 due to ongoing construction, well start-up and performance testing.

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

Well	Date		
	July 2024	August 2024	September 2024
Well 20 (N-10149)	0.44	NS	NS
Well 21 (N-12795)	2.8	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 Superintendent Peter Logan at 516-921-8280 or visit the District 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)
W. Merklin (D&B)
M. Savarese (D&B)
L. Ortiz (D&B)
P. Connell (D&B)

ATTACHMENT A

**Project Schedules Associated with
MCL Exemption**

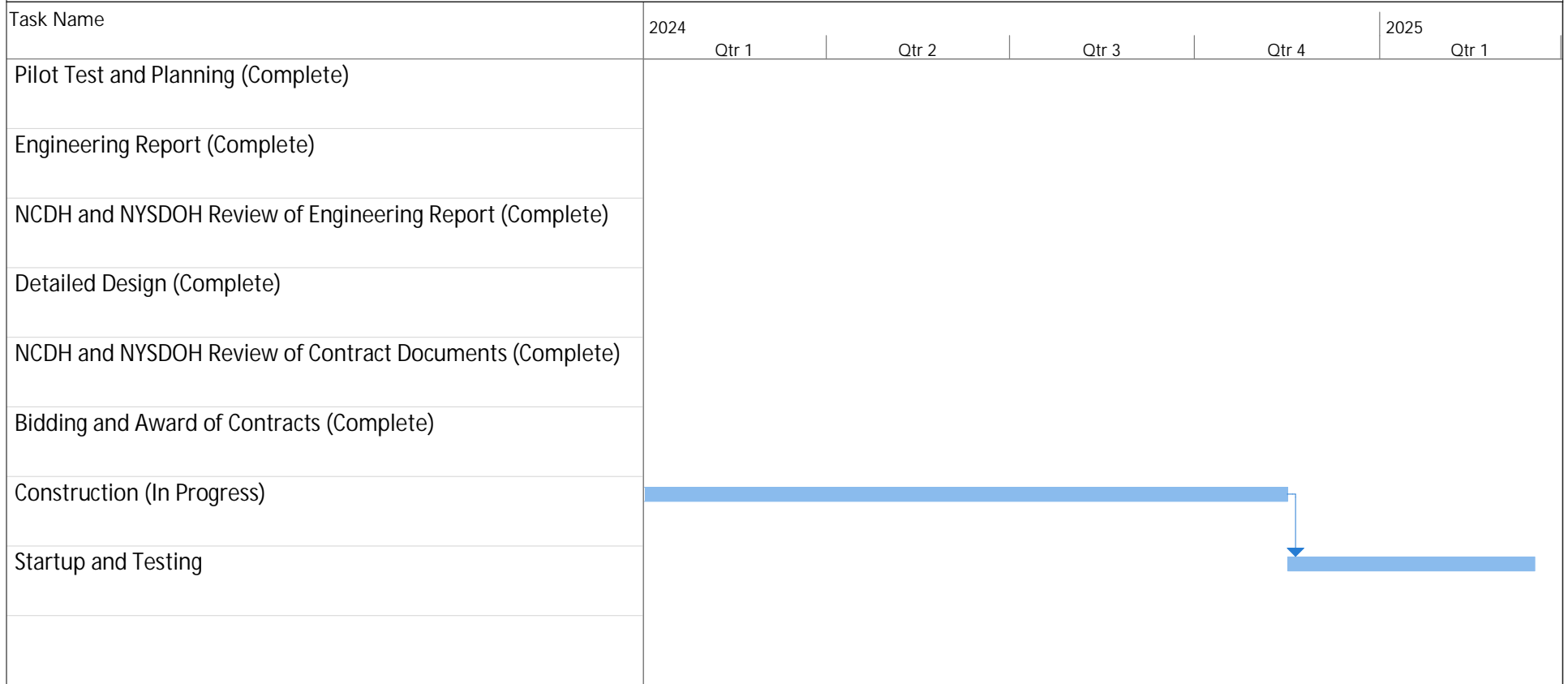
Jericho Water District
MCL Exemption
Quarterly Report - Q3 2024

Wells 9 and 14
AOP Project Schedule

Task Name	2024
	Qtr 1 Qtr 2
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 (Complete)	
Startup and Testing (Complete); NCDH Approval (Complete)	

Jericho Water District
MCL Exemption
Quarterly Report - Q3 2024

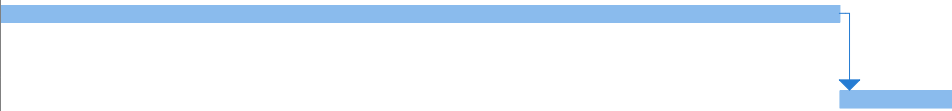
Wells 20 and 21
AOP Project Schedule



Jericho Water District
MCL Exemption
Quarterly Report - Q3 2024


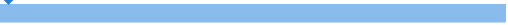
Well 22
AOP Project Schedule

Task Name	2024				2025	
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
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 (Complete)						
Bidding (Complete) and Construction (In Progress)						
Startup and Testing						



Jericho Water District
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Wells 25 and 26
AOP Project Schedule

Task Name	2024		
	Qtr 1	Qtr 2	Qtr 3
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 (Complete)			
Startup and Testing (Complete)			

ATTACHMENT B

Water Quality Data



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. : 70304414010
Client Sample ID.: N-08355

Attn To : Peter Logan

Federal ID : 2902831

Collected : 07/09/2024 01:25 PM Point N-08355

Received : 07/09/2024 02:47 PM Location Well 25

Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	8.6*		5	ug/L	1	07/15/2024 2:03 PM	010 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	98%		5	%REC		07/15/2024 2:03 PM	010 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: 07/17/2024

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road, Melville, NY 11747
 TEL: (516) 370-6000 FAX: (516) 886-5526
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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: Raw Well
 Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791

Lab No. : 70304414011
Client Sample ID.: N-13119

Attn To : Peter Logan
 Federal ID : 2902831

Collected : 07/09/2024 01:36 PM **Point** N-13119

Received : 07/09/2024 02:47 PM **Location** Well 26

Collected By CLIENT

Sample Comments:
 RUN TO WASTE

<u>Analytical Method:</u> EPA 522		<u>Prep Method:</u> EPA 522			<u>Prep Date:</u> 07/12/2024 9:45 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)	0.68		1	ug/L	1	07/15/2024 2:21 PM	011 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	91%		1	%REC		07/15/2024 2:21 PM	011 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.

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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: 07/17/2024



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

WorkOrder :
70304414

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#: 70304414



747

Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE Ran to Waste

7, 26

WELL RUN TO SYSTEM

27, 28, 6, 16, 29, 30, 9, 14, 25,

Date: 7-9-24

Collected By: TK

Accepted By: WMS Price LJ 7/9 1447

Cooler Temp: 20.3 °C
(15)

YES NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist
Address: 125 Convent Rd
Syosset NY 11791
Phone #: (516) 921-8280
Attn: _____
Proj. # or (Name): _____
Bill To: _____
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		Analysis	Lab No.
						Cl ₂	pH/Temp		
<u>7-9-24 1040</u>	<u>PW</u>	<u>Well #27 N-08713</u>	<u>RW</u>		<u>RO</u>	<u>0</u>	<u>114 Dioxane</u>		
<u>1055</u>		<u>Well #28 N-14003</u>			"	"	"		
<u>1133</u>		<u>Well #6 N-03474</u>			"	"	"		
<u>1142</u>		<u>Well #16 N-07446</u>			"	"	"		
<u>1150</u>		<u>Well #7 N-03475</u>			"	"	"		
<u>1230</u>		<u>Well #30 N-11285</u>			"	"	"		
<u>1240</u>		<u>Well #29 N-11107</u>			"	"	"		
<u>1250</u>		<u>Well #9 N-04245</u>			"	"	"		
<u>1305</u>		<u>Well #14 N-01651</u>			"	"	"		
<u>1325</u>		<u>Well #26 N-08355</u>			"	"	"		
<u>1336</u>		<u>Well #26 N-13119</u>			"	"	"		

Remarks:

WO#: 70304414

Client Name:

JWD

Project #

PM: JSA

Due Date: 07/22/24

CLIENT: JWD

Courier: Fed Ex UPS USPS Client Commercial Pac Other

Tracking #:

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

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other Type of Ice: Wet Blue None

Thermometer Used: JM21 Correction Factor: -1 Samples on ice, cooling process has begun

Cooler Temperature (°C): 20.3 Cooler Temperature Corrected (°C): 20.2 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 7/9/24

	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 MS/MSD) <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	10.
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/Analysis Matrix: <u>SL WPT OIL OTHER</u>	

Date and Initials of person checking preservation:

All containers needing preservation have been <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, <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 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 #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lead Acetate Strips Lot #	
Headspace in ALK Bottle (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



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 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. : 70306257004
Client Sample ID.: N-10149

Attn To : Peter Logan

Federal ID : 2902831

Collected : 07/24/2024 09:53 AM Point N-10149

Received : 07/24/2024 01:00 PM Location Well 20

Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.51		1	ug/L	1	07/26/2024 7:34 PM	004 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	91%		1	%REC		07/26/2024 7:34 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

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: 07/30/2024

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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WO#: 70306257



70306257

373 DUNDON ROAD, WESTPORT, NY 11791-1447

(631) 694-3040 Fax: (631) 420-8436

Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

Date: 7/24/24

WELL RUN TO SYSTEM

Collected By: CS

Client Info:

Name or Code: Terricho Water

Address: 125 Convent Rd

Phone #: Syosset, NY 11751

Attn: (516) 921-8280

Proj. # or (Name):

Bill To:

Copies To:

Accepted By: Byrd PFL 13:00

Cooler Temp: 13.6 °C (B)

YES NO VOC'S PRESERVED WITH HCl

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.
7/24/24 8:50am	PW	Well 4 H-12734	RW		RO		1,4 Dioxane	
7/24/24 9:00am	PW	Well 3 H-00198	RW		RO		1,4 Dioxane	
7/24/24 9:30am	PW	Well 17 H-07593	RW		RO		1,4 Dioxane	
7/24/24 9:53am	PW	Well 20 H-10149	RW		RO		1,4 Dioxane	
7/24/24 10:30am	PW	Well 13 H-06093	RW		RO		1,4 Dioxane	
7/24/24 10:43am	PW	Well 12 H-06092	RW		RO		1,4 Dioxane	
7/24/24 11:05am	PW	Well 23 H-08043	RW		RO		1,4 Dioxane	
7/24/24 11:36am	PW	Well 18 H-07772 Ren to waste	RW		RO		1,4 Dioxane	
7/24/24 11:55am	PW	Well 19 H-07773 Ren to waste	RW		RO		1,4 Dioxane	
7/24/24 12:30pm	PW	Well 5 H-00570 Ren to waste	RW		RO		1,4 Dioxane	

Remarks:

5152

Profile #:

Client: JWD

Work ID: 11 Dioxane 724

COC Page

of

Use Point Number Spreadsheet

Multitray Project

Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	Sample ID	Sample Description	Container	Volume	Notes
1		AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	
2		AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	
3		AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	
4		AG1U	1Mer unpres amber glass	BP1U	1L unpreserved plastic	
5		AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	
6		AG35	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	
7		AG4E	125mL EDTA amber glass	BP2N	500mL HNO3 plastic	
8		AG3S	250mL Na Thio 40mL	BP3S	250mL H2SO4 plastic	
9		AG1A	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	
10		AG1H	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	
11		AG1T	1L HCl amber glass	BP3T	250mL Trisma	
12		AG2R	1L Ammonium Chloride	BP3S	250mL Ammonium Acetate	
13		AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH	
14		AG44	4oz clear soil jar	BP1Z	1L NaOH Zn Acetate	
15		AG11	Ammonium Cl 120mL bottle	BP1N	1L HNO3 plastic	
16		AG1A		BP1B	1L Thiosulfate Amber Bottle	
17		AG1H				
18		AG1T				
19		AG2R				
20		AG3T				
21		AG4E				
22		AG3S				
23		AG1U				
24		AG2U				
25		AG3U				
26		AG4U				
27		DG9S				
28		DG8T				
29		DG9A				
30		DG9P				
31		DG9Y				
32		VG9T				
33		VG9S				
34		VG9H				
35		VG9C				
36		VG9U				
37		WG9U				
38		WG9D				
39		WG9K				
40		WG9F				
41		WG2U				
42		BP1B				
43		BP1N				
44		BP1Z				
45		BP3R				
46		BP35				
47		BP3T				
48		BP3C				
49		BP2N				
50		BP3N				
51		BP4N				
52		BP2S				
53		BP3S				
54		BP1U				
55		BP2U				
56		BP3U				
57		BP4U				
58		WG4O				
59		WG9O				
60		CG1U				
61		AG44				
62		AG5U				
63		AG1A				
64		AG1H				
65		AG1T				
66		AG2R				
67		AG3T				
68		AG4E				
69		AG3S				
70		AG1U				
71		AG2U				
72		AG3U				
73		AG4U				
74		DG9S				
75		DG8T				
76		DG9A				
77		DG9P				
78		DG9Y				
79		VG9T				
80		VG9S				
81		VG9H				
82		VG9C				
83		VG9U				
84		WG9U				
85		WG9D				
86		WG9K				
87		WG9F				
88		WG2U				
89		BP1B				
90		BP1N				
91		BP1Z				
92		BP3R				
93		BP35				
94		BP3T				
95		BP3C				
96		BP2N				
97		BP3N				
98		BP4N				
99		BP2S				
100		BP3S				
101		BP1U				
102		BP2U				
103		BP3U				
104		BP4U				
105		WG4O				
106		WG9O				
107		CG1U				
108		AG44				
109		AG5U				
110		AG1A				
111		AG1H				
112		AG1T				
113		AG2R				
114		AG3T				
115		AG4E				
116		AG3S				
117		AG1U				
118		AG2U				
119		AG3U				
120		AG4U				
121		DG9S				
122		DG8T				
123		DG9A				
124		DG9P				
125		DG9Y				
126		VG9T				
127		VG9S				
128		VG9H				
129		VG9C				
130		VG9U				
131		WG9U				
132		WG9D				
133		WG9K				
134		WG9F				
135		WG2U				
136		BP1B				
137		BP1N				
138		BP1Z				
139		BP3R				
140		BP35				
141		BP3T				
142		BP3C				
143		BP2N				
144		BP3N				
145		BP4N				
146		BP2S				
147		BP3S				
148		BP1U				
149		BP2U				
150		BP3U				
151		BP4U				
152		WG4O				
153		WG9O				
154		CG1U				
155		AG44				
156		AG5U				
157		AG1A				
158		AG1H				
159		AG1T				
160		AG2R				
161		AG3T				
162		AG4E				
163		AG3S				
164		AG1U				
165		AG2U				
166		AG3U				
167		AG4U				
168		DG9S				
169		DG8T				
170		DG9A				
171		DG9P				
172		DG9Y				
173		VG9T				
174		VG9S				
175		VG9H				
176		VG9C				
177		VG9U				
178		WG9U				
179		WG9D				
180		WG9K				
181		WG9F				
182		WG2U				
183		BP1B				
184		BP1N				
185		BP1Z				
186		BP3R				
187		BP35				
188		BP3T				
189		BP3C				
190		BP2N				
191		BP3N				
192		BP4N				
193		BP2S				
194		BP3S				
195		BP1U				
196		BP2U				
197		BP3U				
198		BP4U				
199		WG4O				
200		WG9O				
201		CG1U				
202		AG44				
203		AG5U				
204		AG1A				
205		AG1H				
206		AG1T				
207		AG2R				
208		AG3T				
209		AG4E				
210		AG3S				
211		AG1U				
212		AG2U				
213		AG3U				
214		AG4U				
215		DG9S				
216		DG8T				
217		DG9A				
218		DG9P				
219		DG9Y				
220		VG9T				
221		VG9S				
222		VG9H				
223		VG9C				
224		VG9U				
225		WG9U				
226		WG9D				
227		WG9K				
228		WG9F				
229		WG2U				
230		BP1B				
231		BP1N				
232		BP1Z				
233		BP3R				
234		BP35				
235		BP3T				
236		BP3C				
237		BP2N				
238		BP3N				
239		BP4N				
240		BP2S				
241		BP3S				
242		BP1U				
243		BP2U				
244		BP3U				
245		BP4U				
246		WG4O				
247		WG9O				
248		CG1U				
249		AG44				
250		AG5U				
251		AG1A				
252		AG1H				
253		AG1T				
254		AG2R				
255		AG3T				
256		AG4E				
257		AG3S				
258		AG1U				
259		AG2U				
260		AG3U				
261		AG4U				
262		DG9S				
263		DG8T				
264		DG9A				
265		DG9P				
266		DG9Y				
267		VG9T				
268		VG9S				
269		VG9H				
270		VG9C				
271		VG9U				
272		WG9U				
273		WG9D				
274		WG9K				
275		WG9F				
276		WG2U				
277		BP1B				
278		BP1N				
279		BP1Z				
280		BP3R				
281		BP35				
282		BP3T				
2						

WO# : 70306257
 PM: JSA Due Date: 08/05/24
 CLIENT: JWD

Client Name: _____ Project: _____
 Courier: Fed Ex UPS USPS Client Commercial Pac~~o~~ Other _____
 Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziplo None Other _____ Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: -0.1 Samples on ice, cooling process has begun
 Cooler Temperature(°C): 13.6 Cooler Temperature Corrected(°C): 13.5 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)
 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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ASF 7/24/24

	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 MS/MSD) <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	10.
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/Analysis Matrix: SL <input checked="" type="checkbox"/> WT <input type="checkbox"/> OIL <input type="checkbox"/> OTHER	

Date and Initials of person checking preservation: ASF 7/24/24

All containers needing preservation have been pH paper Lot # <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	T3. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A NAOH>12 Cyanide)	Sample #
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 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 sul <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 ALK Bottle (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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	

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



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. : 70310443003
Client Sample ID.: N-08355

Attn To : Peter Logan

Federal ID : 2902831

Collected : 08/22/2024 09:05 AM Point N-08355

Received : 08/22/2024 01:11 PM Location Well 25

Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	7.5*	M1	5	ug/L	1	08/27/2024 12:09	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	94%		5	%REC		08/27/2024 12:09	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
 See qualifiers page for additional qualifier definitions.

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.



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WorkOrder :
70310443

Laboratory Certifications

Pace Analytical Services, LLC - Melville, NY

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



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WorkOrder :

70310443

Additional Qualifiers

M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Effective Date:

WO#: 70310443

PM: JSA

Due Date: 08/30/24

CLIENT: JWD

Client Name:

Project #

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #:

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

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: +0.3 Samples on ice, cooling process has begun

Cooler Temperature (°C): 13.9 Cooler Temperature Corrected (°C): 14.2 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 8/29/24

		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 type="checkbox"/> Yes <input checked="" 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 MS/MSD)	<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 checked="" type="checkbox"/> No <input 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/Analysis Matrix:	SL WT OIL OTHER	

Date and Initials of person checking preservation: SH 8/29/24

All containers needing preservation have been pH paper Lot #	<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
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		Sample #
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: KI starch test strips Lot #	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			
SM 4500 CN samples checked for sulf	<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 ALK Bottle (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
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		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.