

4 November 2022

Mr. Scott Sokolowski Remedial Project Manager Naval Facilities Engineering Command, Mid Atlantic 9324 Virginia Avenue, Building N-26 Norfolk, VA 23511-3095

Subject: October 2022 Sampling Report

Full Scale Liquid-Phase Granular Activated Carbon Treatment System

Liberty New York Water, Seamans Neck Road Water Plant

NWIRP Bethpage, New York

Contract No. N40085-16-D-2288, Task Order 5125

Dear Mr. Sokolowski,

The Full Scale Liquid-Phase Granulated Activated Carbon (GAC) Treatment System is located at the Liberty New York Water (LNYW), formerly New York American Water (NYAW), Seamans Neck Road water treatment plant in Levittown, NY. The GAC System was installed at the effluent of the potable water treatment plant and consists of six GAC vessels operating in parallel to remove low levels of trichloroethene (TCE) from Well No. 3A and Well No. 4S. After GAC treatment, the water receives chemical injection of sodium hypochlorite and sodium tripolyphosphate before going to distribution. Startup of the Full Scale GAC Treatment System occurred on 8 January 2015 under CH2MHill. KOMAN Government Solutions, LLC (KGS) began routine operation and maintenance (O&M) activities in March 2015.

The purpose of this report is to document the sampling activities performed at the GAC Treatment System in October 2022 and present the associated analytical results.

Sampling Requirements

Nassau County Department of Health (NCDH) and the approved Sampling Plan outline the following sampling requirements at the Full Scale GAC System:

- Monthly Sampling: Principal Organic Compound (POC) sampling will be performed once a month at the effluent from the GAC treatment system one sample location, plus associated quality assurance / quality control (QA/QC) samples. POCs will be analyzed via EPA Method 542.2.
- Quarterly Sampling: POC sampling will be performed at the influent to the GAC treatment system on a quarterly basis at Well No. 3A and Well No. 4S raw water two sample locations. The monthly POC sample collected at the effluent of the GAC Treatment System (described above) will also serve as the quarterly POC GAC effluent sample. Associated QA/QC samples will also be collected. In addition, microbiological (MIC) samples will be collected on a quarterly basis. Samples will be collected from the

- system influent (Well No. 3A and Well No. 4S raw water) and from the effluent of each GAC vessel over a timed sequence. The sampling occurs after the wells and vessels are shut-down for a minimum of 12 hours. Samples will be analyzed via the Colilert method to determine if any *E. Coli* or Total Coliform bacteria are present.
- Annual Sampling: Annual sampling will be performed for Physical and Inorganic Constituents (IOCs) at the system influent (Well No. 3A and Well No. 4S raw water) and effluent three sampling locations, plus associated QA/QC samples. IOCs include a specified list of metals analyzed via EPA Method 200.7.

October 2022 Sampling Summary

Monthly POC Sampling

On 4 October 2022 monthly POC samples were collected from the GAC system influent from Well No. 3A and Well No. 4S and the system effluent; a field duplicate and matrix spike / matrix spike duplicate (MS/MSD) from the system effluent were also collected. **Attachment 1** provides the analytical data report for POC samples collected in October 2022. **Table 1**, below, presents the trichloroethene (TCE) analytical results. TCE was not detected in the GAC effluent or GAC effluent duplicate samples. Results for TCE are in compliance with NCDH requirements.

Table 1 - TCE Analytical Results⁽¹⁾ - October 2022

Date	Well 3A Raw [N-14347 (Seaman Neck 3A Well)]	Well 4S Raw [N-09338 (Seaman Neck 4S Well)]	Effluent from GAC System [GAC-3S/4S (Seaman Neck GAC Effluent)]	Effluent from GAC System (Duplicate) [GAC-3S/4S (Seaman Neck GAC Effluent)-D]
10/04/2022	26.3	2.5	ND	ND

Notes:

(1) All concentrations reported in ug/L (ppb).

ND-Not Detected above the reporting limit (0.50 ug/L)

Quarterly Microbiological (MIC) Sampling – 2022 Q3

On 2 October 2022, GAC #500 and GAC #600 were taken off-line for a minimum required 12-hour period prior to collecting quarterly MIC samples. Well No. 4S and the other four GAC vessels continued to operate. Following the 12-hour shut-down of the vessels, GAC #500 and GAC #600 were brought back on-line. Time sequenced MIC samples were collected from Well No. 4S and the GAC vessel effluents at 0, 2, 5, 10, and 30 minutes after restart of the vessels and startup of Well No. 4S on 3 October 2022. Analytical results are presented in **Attachment 2**. As indicated, *E. Coli* and Total Coliform were not present in any of these samples.

On 10 October 2022, GAC #300 and GAC #400 were taken off-line for a minimum required 12-hour period prior to collecting quarterly MIC samples. Well No. 4S and the other four GAC vessels continued to operate. Following the 12-hour shut-down of the vessels, GAC #300 and GAC #400 were brought back on-line. Time sequenced MIC samples were collected from GAC vessel effluents at 0, 2, 5, 10, and 30 minutes after restart of the vessels and startup on 11

October 2022. Analytical results are presented in **Attachment 2**. As indicated, *E. Coli* and Total Coliform were not present in any of these samples.

Please contact me at 610-400-0636 or <u>rgregory@komangs.com</u> with any questions or concerns regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Robert & Dryng

Robert Gregory, P.G.

Project Manager

Cc: W. Provoncha – Nassau County

M. Alarcon – Nassau County

C. Johnson – Nassau County

R. Castle – Nassau County

J. Pelton – NYSDEC

K. Granzen – NYSDEC

M. Travis - NYSDEC

C. Shukis – NAVFAC

V. Varricchio – NWIRP Bethpage Facilities Management

R. Kern – LNYW

N. Niola – LNYW

J. Palmer - LNYW

D. Brayack – Tetra Tech

R. Hoffmaster – KGS

P. Schauble - KGS

ATTACHMENT 1 POC ANALYTICAL RESULTS FOR OCTOBER 2022





October 20, 2022

Robert G. Gregory KOMAN Government Services, LLC 180 Gordon Dr. Suite 110 Exton, PA 19341

RE: Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack

kimberley.mack@pacelabs.com

Kimberley Mack.

(631)694-3040

Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC





CERTIFICATIONS

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

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 SUMMARY

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70231862001	GAC-3S/4S(SEAMAN NECK GAC	Drinking Water	10/04/22 09:40	10/04/22 11:00
70231862002	GÁC-3S/4S(SEAMAN NECKGAC E.)-D	Drinking Water	10/04/22 09:45	10/04/22 11:00
70231862003	WELL 3A N-14347(INFLUENT)	Drinking Water	10/04/22 09:25	10/04/22 11:00
70231862004	WELL 4 N-09338 (INFLUENT)	Drinking Water	10/04/22 09:10	10/04/22 11:00



SAMPLE ANALYTE COUNT

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70231862001	GAC-3S/4S(SEAMAN NECK GAC E.)	EPA 522	Al1	2
		EPA 524.2	KGG	62
70231862002	GAC-3S/4S(SEAMAN NECKGAC E.)-D	EPA 524.2	KGG	62
70231862003	WELL 3A N-14347(INFLUENT)	EPA 522	AI1	2
		EPA 524.2	KGG	62
70231862004	WELL 4 N-09338 (INFLUENT)	EPA 522	Al1	2
		EPA 524.2	KGG	62

PACE-MV = Pace Analytical Services - Melville



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: GAC-3S/4S(SEAMAN NECK GAC E.)	Lab ID:	70231862001	Collected	Collected: 10/04/22 09:40			04/22 11:00	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical	Method: EPA 5	522 Prepara	tion Method	: EPA	522			
	Pace Anal	ytical Services	 Melville 						
1,4-Dioxane (p-Dioxane)	1.9	ug/L	0.020		1	10/17/22 15:13	10/19/22 15:5	53 123-91-1	
Surrogates 1,4-Dioxane-d8 (S)	92	%	70-130		1	10/17/22 15:13	10/19/22 15:5	53	
524.2 MSV	Analytical	Method: EPA 5	524.2						
JET.E MOV	•	ytical Services							
Benzene	<0.50	ug/L	0.50	5	1		10/13/22 00:3	37 71-43-2	
Bromobenzene	<0.50	ug/L	0.50	3	1		10/13/22 00:3		
Bromochloromethane	<0.50	ug/L	0.50		1		10/13/22 00:3		
Bromodichloromethane	<0.50	ug/L	0.50	80	1		10/13/22 00:3		
Bromoform	<0.50	ug/L ug/L	0.50	80	1		10/13/22 00:3		
Bromomethane	<0.50	ug/L	0.50	00	1		10/13/22 00:3		
n-Butylbenzene	<0.50	ug/L	0.50		1		10/13/22 00:3		
sec-Butylbenzene	<0.50	ug/L	0.50		1		10/13/22 00:3		
tert-Butylbenzene	<0.50	ug/L ug/L	0.50		1		10/13/22 00:3		
Carbon tetrachloride	<0.50	-	0.50	5	1		10/13/22 00:3		
Chlorobenzene	<0.50 <0.50	ug/L	0.50	100	1		10/13/22 00:3		
Chlorodifluoromethane	<0.50 <0.50	ug/L	0.50	100	1		10/13/22 00:3		L1,N3
Chloroethane		ug/L			1				L1,N3
	<0.50	ug/L	0.50	90			10/13/22 00:3		
Chloroform	<0.50	ug/L	0.50	80	1		10/13/22 00:3		
Chloromethane	<0.50	ug/L	0.50		1		10/13/22 00:3		
2-Chlorotoluene	<0.50	ug/L	0.50		1		10/13/22 00:3		
4-Chlorotoluene	<0.50	ug/L	0.50	00	1		10/13/22 00:3		
Dibromochloromethane	<0.50	ug/L	0.50	80	1		10/13/22 00:3		
Dibromomethane	<0.50	ug/L	0.50	000	1		10/13/22 00:3		
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		10/13/22 00:3		
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		10/13/22 00:3		
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		10/13/22 00:3		
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		10/13/22 00:3		L2
1,1-Dichloroethane	<0.50	ug/L	0.50	_	1		10/13/22 00:3		
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 00:3		
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		10/13/22 00:3		
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		10/13/22 00:3		
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		10/13/22 00:3		
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		10/13/22 00:3		
1,3-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 00:3		
2,2-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 00:3		
1,1-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 00:3		
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1			37 10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1			37 10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		10/13/22 00:3		
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		10/13/22 00:3		
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		10/13/22 00:3		
p-Isopropyltoluene	<0.50	ug/L	0.50		1		10/13/22 00:3	37 99-87-6	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: GAC-3S/4S(SEAMAN NECK GAC E.)	Lab ID:	70231862001	Collecte	d: 10/04/22	2 09:40	Received: 10	/04/22 11:00 Ma	atrix: Drinking	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical	Method: EPA 5	24.2						
	Pace Anal	ytical Services	- Melville						
Methylene Chloride	<0.50	ug/L	0.50	5	1		10/13/22 00:37	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		10/13/22 00:37	1634-04-4	L1
n-Propylbenzene	<0.50	ug/L	0.50		1		10/13/22 00:37	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		10/13/22 00:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		10/13/22 00:37	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		10/13/22 00:37	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	5	1		10/13/22 00:37	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		10/13/22 00:37	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		10/13/22 00:37		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		10/13/22 00:37	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		10/13/22 00:37	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		10/13/22 00:37	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 00:37	79-00-5	
Trichloroethene	<0.50	ug/L	0.50	5	1		10/13/22 00:37	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		10/13/22 00:37	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		10/13/22 00:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		10/13/22 00:37	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 00:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 00:37	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		10/13/22 00:37	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		10/13/22 00:37	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		10/13/22 00:37	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		10/13/22 00:37		
4-Bromofluorobenzene (S)	102	%	70-130		1		10/13/22 00:37	460-00-4	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Lab ID: 70231862002 Sample: GAC-3S/4S(SEAMAN Collected: 10/04/22 09:45 Received: 10/04/22 11:00 Matrix: Drinking Water **NECKGAC È.)-D** Report Reg **Parameters** Results Units Limit Limit DF Prepared CAS No. Qual Analyzed 524.2 MSV Analytical Method: EPA 524.2 Pace Analytical Services - Melville Benzene < 0.50 ug/L 0.50 5 1 10/13/22 01:04 71-43-2 10/13/22 01:04 108-86-1 Bromobenzene 0.50 <0.50 ug/L 1 Bromochloromethane < 0.50 ug/L 0.50 1 10/13/22 01:04 74-97-5 Bromodichloromethane <0.50 0.50 80 1 10/13/22 01:04 75-27-4 ug/L Bromoform <0.50 0.50 80 1 10/13/22 01:04 75-25-2 ug/L Bromomethane <0.50 ug/L 0.50 1 10/13/22 01:04 74-83-9 n-Butylbenzene < 0.50 ug/L 0.50 1 10/13/22 01:04 104-51-8 sec-Butylbenzene < 0.50 ug/L 0.50 1 10/13/22 01:04 135-98-8 10/13/22 01:04 98-06-6 tert-Butylbenzene <0.50 ug/L 0.50 1 Carbon tetrachloride <0.50 ug/L 0.50 5 1 10/13/22 01:04 56-23-5 100 Chlorobenzene < 0.50 ug/L 0.50 1 10/13/22 01:04 108-90-7 Chlorodifluoromethane <0.50 0.50 1 10/13/22 01:04 75-45-6 L1,N3 ug/L 0.50 10/13/22 01:04 75-00-3 Chloroethane < 0.50 ug/L 1 Chloroform < 0.50 ug/L 0.50 80 1 10/13/22 01:04 67-66-3 Chloromethane < 0.50 ug/L 0.50 1 10/13/22 01:04 74-87-3 2-Chlorotoluene < 0.50 ug/L 0.50 1 10/13/22 01:04 95-49-8 < 0.50 0.50 4-Chlorotoluene ug/L 1 10/13/22 01:04 106-43-4 10/13/22 01:04 124-48-1 Dibromochloromethane < 0.50 ug/L 0.50 80 1 10/13/22 01:04 74-95-3 Dibromomethane < 0.50 ug/L 0.50 1 600 1.2-Dichlorobenzene < 0.50 95-50-1 ug/L 0.50 1 10/13/22 01:04 1,3-Dichlorobenzene <0.50 ug/L 0.50 1 10/13/22 01:04 541-73-1 1,4-Dichlorobenzene < 0.50 ug/L 0.50 75 1 10/13/22 01:04 106-46-7 Dichlorodifluoromethane < 0.50 0.50 10/13/22 01:04 75-71-8 L2 ug/L 1 1,1-Dichloroethane < 0.50 ug/L 0.50 1 10/13/22 01:04 75-34-3 5 1,2-Dichloroethane < 0.50 ug/L 0.50 1 10/13/22 01:04 107-06-2 1,1-Dichloroethene < 0.50 ug/L 0.50 7 1 10/13/22 01:04 75-35-4 cis-1,2-Dichloroethene <0.50 ug/L 0.50 70 1 10/13/22 01:04 156-59-2 100 trans-1,2-Dichloroethene < 0.50 0.50 1 10/13/22 01:04 156-60-5 ug/L 5 10/13/22 01:04 78-87-5 1,2-Dichloropropane < 0.50 0.50 1 ug/L 1,3-Dichloropropane < 0.50 0.50 1 10/13/22 01:04 142-28-9 ug/L 10/13/22 01:04 594-20-7 2,2-Dichloropropane < 0.50 ug/L 0.50 1 1,1-Dichloropropene <0.50 ug/L 0.50 1 10/13/22 01:04 563-58-6 cis-1,3-Dichloropropene < 0.50 ug/L 0.50 1 10/13/22 01:04 10061-01-5 trans-1,3-Dichloropropene 0.50 10/13/22 01:04 10061-02-6 < 0.50 ug/L 1 0.50 700 10/13/22 01:04 100-41-4 Ethylbenzene < 0.50 ug/L 1 Hexachloro-1,3-butadiene < 0.50 ug/L 0.50 1 10/13/22 01:04 87-68-3 Isopropylbenzene (Cumene) < 0.50 ug/L 0.50 1 10/13/22 01:04 98-82-8 <0.50 ug/L 0.50 10/13/22 01:04 99-87-6 p-Isopropyltoluene 1 Methylene Chloride <0.50 ug/L 0.50 5 10/13/22 01:04 75-09-2 1 Methyl-tert-butyl ether < 0.50 ug/L 0.50 1 10/13/22 01:04 1634-04-4 11 <0.50 0.50 n-Propylbenzene ug/L 1 10/13/22 01:04 103-65-1 <0.50 100 Styrene ug/L 0.50 1 10/13/22 01:04 100-42-5 1,1,1,2-Tetrachloroethane < 0.50 ug/L 0.50 1 10/13/22 01:04 630-20-6 1,1,2,2-Tetrachloroethane <0.50 ug/L 0.50 10/13/22 01:04 79-34-5 1



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: GAC-3S/4S(SEAMAN NECKGAC E.)-D	Lab ID:	70231862002	Collecte	d: 10/04/22	09:45	Received: 10)/04/22 11:00 M	atrix: Drinking	Water
			Report	Reg.					
Parameters	Results	Units	Limit	Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical	Method: EPA 5	24.2						
	Pace Anal	ytical Services	- Melville						
Tetrachloroethene	<0.50	ug/L	0.50	5	1		10/13/22 01:04	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		10/13/22 01:04	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		10/13/22 01:04		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		10/13/22 01:04	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		10/13/22 01:04	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		10/13/22 01:04	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 01:04	79-00-5	
Trichloroethene	<0.50	ug/L	0.50	5	1		10/13/22 01:04	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		10/13/22 01:04	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		10/13/22 01:04	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:04	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		10/13/22 01:04	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		10/13/22 01:04	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		10/13/22 01:04	95-47-6	
Surrogates		-							
1,2-Dichlorobenzene-d4 (S)	88	%	70-130		1		10/13/22 01:04	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/13/22 01:04	460-00-4	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: WELL 3A N- 14347(INFLUENT)	Lab ID:	70231862003	Collecte	d: 10/04/22	09:25	Received: 10/	04/22 11:00 M	latrix: Drinking	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical	Method: EPA 5	22 Prepara	ation Method	d: EPA (522			
	Pace Ana	llytical Services	 Melville 						
1,4-Dioxane (p-Dioxane)	2.2	ug/L	0.020		1	10/17/22 15:13	10/19/22 16:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	10/17/22 15:13	10/19/22 16:09)	
524.2 MSV	Analytical	Method: EPA 5	24.2						
	Pace Ana	lytical Services	- Melville						
Benzene	<0.50	ug/L	0.50	5	1		10/13/22 01:31	71-43-2	
Bromobenzene	<0.50	ug/L	0.50	3	1		10/13/22 01:31		
Bromochloromethane	<0.50	ug/L	0.50		1		10/13/22 01:31		
Bromodichloromethane	<0.50	ug/L	0.50	80	1		10/13/22 01:31		
Bromoform	<0.50	ug/L ug/L	0.50	80	1		10/13/22 01:31		
Bromomethane	<0.50	-	0.50	80	1		10/13/22 01:31		
	<0.50	ug/L	0.50		1		10/13/22 01:31		
n-Butylbenzene		ug/L							
sec-Butylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:31		
tert-Butylbenzene	<0.50	ug/L	0.50	_	1		10/13/22 01:31		
Carbon tetrachloride	<0.50	ug/L	0.50	5	1		10/13/22 01:31		
Chlorobenzene	<0.50	ug/L	0.50	100	1		10/13/22 01:31		1.4.10
Chlorodifluoromethane	<0.50	ug/L	0.50		1		10/13/22 01:31		L1,N3
Chloroethane	<0.50	ug/L	0.50	0.0	1		10/13/22 01:31		
Chloroform	<0.50	ug/L	0.50	80	1		10/13/22 01:31		
Chloromethane	<0.50	ug/L	0.50		1		10/13/22 01:31		
2-Chlorotoluene	<0.50	ug/L	0.50		1		10/13/22 01:31		
4-Chlorotoluene	<0.50	ug/L	0.50		1		10/13/22 01:31		
Dibromochloromethane	<0.50	ug/L	0.50	80	1		10/13/22 01:31		
Dibromomethane	<0.50	ug/L	0.50		1		10/13/22 01:31		
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		10/13/22 01:31		
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		10/13/22 01:31		
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		10/13/22 01:31		
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		10/13/22 01:31	75-71-8	L2
1,1-Dichloroethane	<0.50	ug/L	0.50		1		10/13/22 01:31		
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 01:31	107-06-2	
1,1-Dichloroethene	0.71	ug/L	0.50	7	1		10/13/22 01:31	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		10/13/22 01:31	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		10/13/22 01:31	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		10/13/22 01:31	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:31	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:31	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 01:31	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 01:31	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 01:31	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		10/13/22 01:31	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		10/13/22 01:31	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		10/13/22 01:31	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		10/13/22 01:31	99-87-6	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

4-Bromofluorobenzene (S)

Date: 10/20/2022 04:20 PM

100

%

Sample: WELL 3A N-Lab ID: 70231862003 Collected: 10/04/22 09:25 Received: 10/04/22 11:00 Matrix: Drinking Water 14347(INFLUENT) Report Reg. Analyzed **Parameters** Results Units Limit Limit DF Prepared CAS No. Qual 524.2 MSV Analytical Method: EPA 524.2 Pace Analytical Services - Melville Methylene Chloride < 0.50 ug/L 0.50 5 1 10/13/22 01:31 75-09-2 Methyl-tert-butyl ether <0.50 ug/L 0.50 10/13/22 01:31 1634-04-4 L1 1 0.50 n-Propylbenzene < 0.50 ug/L 1 10/13/22 01:31 103-65-1 ug/L Styrene < 0.50 0.50 100 1 10/13/22 01:31 100-42-5 1,1,1,2-Tetrachloroethane <0.50 ug/L 0.50 1 10/13/22 01:31 630-20-6 1,1,2,2-Tetrachloroethane <0.50 ug/L 0.50 1 10/13/22 01:31 79-34-5 Tetrachloroethene <0.50 ug/L 0.50 5 1 10/13/22 01:31 127-18-4 0.50 1000 10/13/22 01:31 108-88-3 Toluene <0.50 ug/L 1 Total Trihalomethanes (Calc.) <0.50 ug/L 0.50 80 1 10/13/22 01:31 1,2,3-Trichlorobenzene <0.50 ug/L 0.50 1 10/13/22 01:31 87-61-6 1,2,4-Trichlorobenzene < 0.50 ug/L 0.50 70 1 10/13/22 01:31 120-82-1 1,1,1-Trichloroethane <0.50 ug/L 0.50 200 1 10/13/22 01:31 71-55-6 1,1,2-Trichloroethane <0.50 0.50 5 1 10/13/22 01:31 79-00-5 ug/L Trichloroethene 26.3 ug/L 0.50 5 1 10/13/22 01:31 79-01-6 Trichlorofluoromethane <0.50 ug/L 0.50 1 10/13/22 01:31 75-69-4 1,2,3-Trichloropropane < 0.50 ug/L 0.50 1 10/13/22 01:31 96-18-4 1,1,2-Trichlorotrifluoroethane 10/13/22 01:31 76-13-1 0.50 N3 1.2 ug/L 1 10/13/22 01:31 95-63-6 1,2,4-Trimethylbenzene < 0.50 ug/L 0.50 1 10/13/22 01:31 108-67-8 1,3,5-Trimethylbenzene < 0.50 ug/L 0.50 1 10/13/22 01:31 75-01-4 Vinyl chloride < 0.50 ug/L 2 0.50 1 10/13/22 01:31 179601-23-1 m&p-Xylene <0.50 ug/L 0.50 1 o-Xylene < 0.50 ug/L 0.50 1 10/13/22 01:31 95-47-6 Surrogates 1,2-Dichlorobenzene-d4 (S) 92 % 70-130 10/13/22 01:31 2199-69-1 1 70-130

1

REPORT OF LABORATORY ANALYSIS

10/13/22 01:31 460-00-4



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: WELL 4 N-09338 (INFLUENT)	Lab ID:	70231862004	Collecte	d: 10/04/22	09:10	Received: 10/	04/22 11:00 N	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical	Method: EPA 5	22 Prepara	ation Method	l: EPA 5	522			
	Pace Ana	lytical Services	- Melville						
1,4-Dioxane (p-Dioxane)	1.8	ug/L	0.020		1	10/17/22 15:13	10/19/22 16:2	6 123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	10/17/22 15:13	10/19/22 16:2	6	
524.2 MSV	Analytical	Method: EPA 5	24.2						
	•	lytical Services							
Danzana	<0.50	•		5	4		10/13/22 01:5	7 71 42 2	
Benzene Bromobenzene	<0.50	ug/L	0.50 0.50	5	1 1		10/13/22 01:5		
Bromochloromethane	<0.50 <0.50	ug/L	0.50		1		10/13/22 01:5		
Bromocniorometnane Bromodichloromethane	<0.50 <0.50	ug/L	0.50	80	1		10/13/22 01:5		
		ug/L		80	1				
Bromoform	<0.50	ug/L	0.50	80			10/13/22 01:5		
Bromomethane	<0.50	ug/L	0.50		1 1		10/13/22 01:5		
n-Butylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:5 10/13/22 01:5		
sec-Butylbenzene	<0.50	ug/L	0.50		1				
tert-Butylbenzene	<0.50	ug/L	0.50	-	1		10/13/22 01:5		
Carbon tetrachloride	<0.50 <0.50	ug/L	0.50	5 100	-		10/13/22 01:5		
Chlorobenzene Chlorodifluoromathana		ug/L	0.50	100	1 1		10/13/22 01:5 10/13/22 01:5		1.4.10
Chlorodifluoromethane Chloroethane	<0.50	ug/L	0.50						L1,N3
	<0.50	ug/L	0.50	00	1 1		10/13/22 01:5		
Chloroform	<0.50	ug/L	0.50	80	•		10/13/22 01:5		
Chloromethane	<0.50	ug/L	0.50		1		10/13/22 01:5		
2-Chlorotoluene	<0.50	ug/L	0.50		1		10/13/22 01:5		
4-Chlorotoluene	<0.50	ug/L	0.50	00	1		10/13/22 01:5		
Dibromochloromethane	<0.50	ug/L	0.50	80	1 1		10/13/22 01:5		
Dibromomethane	<0.50	ug/L	0.50	600	1		10/13/22 01:5		
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	-		10/13/22 01:5		
1,3-Dichlorobenzene	<0.50	ug/L	0.50	75	1 1		10/13/22 01:5		
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75			10/13/22 01:5		L2
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		10/13/22 01:5		LZ
1,1-Dichloroethane	<0.50	ug/L	0.50	_	1		10/13/22 01:5		
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 01:5		
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		10/13/22 01:5		
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		10/13/22 01:5		
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		10/13/22 01:5		
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		10/13/22 01:5		
1,3-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:5		
2,2-Dichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:5		
1,1-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 01:5		
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		10/13/22 01:5		
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	700	1			7 10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		10/13/22 01:5		
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		10/13/22 01:5		
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		10/13/22 01:5		
p-Isopropyltoluene	<0.50	ug/L	0.50		1		10/13/22 01:5	7 99-87-6	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Sample: WELL 4 N-09338 (INFLUENT)	Lab ID:	70231862004	Collected	d: 10/04/22	2 09:10	Received: 10	/04/22 11:00 Ma	atrix: Drinking	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical	Method: EPA 5	24.2						
	Pace Ana	lytical Services	- Melville						
Methylene Chloride	<0.50	ug/L	0.50	5	1		10/13/22 01:57	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		10/13/22 01:57	1634-04-4	L1
n-Propylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:57	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		10/13/22 01:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		10/13/22 01:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		10/13/22 01:57	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	5	1		10/13/22 01:57	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		10/13/22 01:57	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		10/13/22 01:57		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		10/13/22 01:57	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		10/13/22 01:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		10/13/22 01:57	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		10/13/22 01:57	79-00-5	
Trichloroethene	2.5	ug/L	0.50	5	1		10/13/22 01:57	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		10/13/22 01:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		10/13/22 01:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		10/13/22 01:57	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		10/13/22 01:57	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		10/13/22 01:57	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		10/13/22 01:57	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		10/13/22 01:57	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	86	%	70-130		1		10/13/22 01:57	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/13/22 01:57	460-00-4	



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

QC Batch: 277512 Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70231862001, 70231862002, 70231862003, 70231862004

METHOD BLANK: 1402418 Matrix: Water
Associated Lab Samples: 70231862001, 70231862002, 70231862003, 70231862004

		Blank Re			
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	10/12/22 17:21	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	10/12/22 17:21	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	10/12/22 17:21	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	10/12/22 17:21	
1,1,2-Trichlorotrifluoroethane	ug/L	< 0.50	0.50	10/12/22 17:21	N3
1,1-Dichloroethane	ug/L	< 0.50	0.50	10/12/22 17:21	
1,1-Dichloroethene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,1-Dichloropropene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2,3-Trichlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2,3-Trichloropropane	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2,4-Trichlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2,4-Trimethylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2-Dichlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2-Dichloroethane	ug/L	< 0.50	0.50	10/12/22 17:21	
1,2-Dichloropropane	ug/L	< 0.50	0.50	10/12/22 17:21	
1,3,5-Trimethylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,3-Dichlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
1,3-Dichloropropane	ug/L	< 0.50	0.50	10/12/22 17:21	
1,4-Dichlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
2,2-Dichloropropane	ug/L	< 0.50	0.50	10/12/22 17:21	
2-Chlorotoluene	ug/L	< 0.50	0.50	10/12/22 17:21	
4-Chlorotoluene	ug/L	< 0.50	0.50	10/12/22 17:21	
Benzene	ug/L	< 0.50	0.50	10/12/22 17:21	
Bromobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
Bromochloromethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Bromodichloromethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Bromoform	ug/L	< 0.50	0.50	10/12/22 17:21	
Bromomethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Carbon tetrachloride	ug/L	< 0.50	0.50	10/12/22 17:21	
Chlorobenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
Chlorodifluoromethane	ug/L	< 0.50	0.50	10/12/22 17:21	N3
Chloroethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Chloroform	ug/L	< 0.50	0.50	10/12/22 17:21	
Chloromethane	ug/L	< 0.50	0.50	10/12/22 17:21	
cis-1,2-Dichloroethene	ug/L	< 0.50	0.50	10/12/22 17:21	
cis-1,3-Dichloropropene	ug/L	< 0.50	0.50	10/12/22 17:21	
Dibromochloromethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Dibromomethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Dichlorodifluoromethane	ug/L	< 0.50	0.50	10/12/22 17:21	
Ethylbenzene	ug/L	<0.50	0.50	10/12/22 17:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

METHOD BLANK: 1402418 Matrix: Water
Associated Lab Samples: 70231862001, 70231862002, 70231862003, 70231862004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifier
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	10/12/22 17:21	
Isopropylbenzene (Cumene)	ug/L	< 0.50	0.50	10/12/22 17:21	
m&p-Xylene	ug/L	< 0.50	0.50	10/12/22 17:21	
Methyl-tert-butyl ether	ug/L	< 0.50	0.50	10/12/22 17:21	
Methylene Chloride	ug/L	< 0.50	0.50	10/12/22 17:21	
n-Butylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
n-Propylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
o-Xylene	ug/L	< 0.50	0.50	10/12/22 17:21	
p-Isopropyltoluene	ug/L	< 0.50	0.50	10/12/22 17:21	
sec-Butylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
Styrene	ug/L	< 0.50	0.50	10/12/22 17:21	
tert-Butylbenzene	ug/L	< 0.50	0.50	10/12/22 17:21	
Tetrachloroethene	ug/L	< 0.50	0.50	10/12/22 17:21	
Toluene	ug/L	< 0.50	0.50	10/12/22 17:21	
Total Trihalomethanes (Calc.)	ug/L	< 0.50	0.50	10/12/22 17:21	
trans-1,2-Dichloroethene	ug/L	< 0.50	0.50	10/12/22 17:21	
trans-1,3-Dichloropropene	ug/L	< 0.50	0.50	10/12/22 17:21	
Trichloroethene	ug/L	< 0.50	0.50	10/12/22 17:21	
Trichlorofluoromethane	ug/L	<0.50	0.50	10/12/22 17:21	
Vinyl chloride	ug/L	<0.50	0.50	10/12/22 17:21	
1,2-Dichlorobenzene-d4 (S)	%	89	70-130	10/12/22 17:21	
4-Bromofluorobenzene (S)	%	93	70-130	10/12/22 17:21	

LABORATORY CONTROL SAMPLE:	1402419					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.5	95	70-130	
1,1,1-Trichloroethane	ug/L	10	8.8	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	11.2	112	70-130	
1,1,2-Trichloroethane	ug/L	10	10.4	104	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.8	118	70-130	IH,N3
1,1-Dichloroethane	ug/L	10	10.2	102	70-130	
1,1-Dichloroethene	ug/L	10	8.7	87	70-130	
1,1-Dichloropropene	ug/L	10	8.1	81	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.7	87	70-130	
1,2,3-Trichloropropane	ug/L	10	10.9	109	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.6	86	70-130	
1,2,4-Trimethylbenzene	ug/L	10	8.1	81	70-130	
1,2-Dichlorobenzene	ug/L	10	9.0	90	70-130	
1,2-Dichloroethane	ug/L	10	12.2	122	70-130	
1,2-Dichloropropane	ug/L	10	10.5	105	70-130	
1,3,5-Trimethylbenzene	ug/L	10	7.8	78	70-130	
1,3-Dichlorobenzene	ug/L	10	8.6	86	70-130	
1,3-Dichloropropane	ug/L	10	10.7	107	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

LABORATORY CONTROL SAMPLE:	1402419				_	
Doromotor	Lloito	Spike Conc.	LCS	LCS % Rec	% Rec Limits	Qualifiers
Parameter	Units		Result			
1,4-Dichlorobenzene	ug/L	10	8.5	85	70-130	
2,2-Dichloropropane	ug/L	10	7.1	71	70-130	
2-Chlorotoluene	ug/L	10	8.9	89	70-130	
4-Chlorotoluene	ug/L	10	8.4	84	70-130	
Benzene	ug/L	10	9.8	98	70-130	
Bromobenzene	ug/L	10	8.9	89	70-130	
Bromochloromethane	ug/L	10	10.3	103	70-130	
Bromodichloromethane	ug/L	10	10.2	102	70-130	
Bromoform	ug/L	10	11.7	117	70-130	
Bromomethane	ug/L	10	10	100	70-130	
Carbon tetrachloride	ug/L	10	8.0	80	70-130	
Chlorobenzene	ug/L	10	9.1	91	70-130	
Chlorodifluoromethane	ug/L	10	14.4	144	70-130	IH,L1,N3
Chloroethane	ug/L	10	11.5	115	70-130	
Chloroform	ug/L	10	10.6	106	70-130	
Chloromethane	ug/L	10	9.8	98	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.5	95	70-130	
cis-1,3-Dichloropropene	ug/L	10	10.1	101	70-130	
Dibromochloromethane	ug/L	10	10.3	103	70-130	
Dibromomethane	ug/L	10	10.6	106	70-130	
Dichlorodifluoromethane	ug/L	10	4.9	49	70-130	L2
Ethylbenzene	ug/L	10	8.1	81	70-130	
Hexachloro-1,3-butadiene	ug/L	10	7.7	77	70-130	
Isopropylbenzene (Cumene)	ug/L	10	7.5	75	70-130	
m&p-Xylene	ug/L	20	16.0	80	70-130	
Methyl-tert-butyl ether	ug/L	10	14.2	142	70-130	L1
Methylene Chloride	ug/L	10	10.8	108	70-130	
n-Butylbenzene	ug/L	10	8.6	86	70-130	
n-Propylbenzene	ug/L	10	7.9	79	70-130	
o-Xylene	ug/L	10	8.4	84	70-130	
p-Isopropyltoluene	ug/L	10	7.3	73	70-130	
sec-Butylbenzene	ug/L	10	7.4	74	70-130	
Styrene	ug/L	10	8.5	85	70-130	
tert-Butylbenzene	ug/L	10	8.4	84	70-130	
Tetrachloroethene	ug/L	10	7.3	73	70-130	
Toluene	ug/L	10	9.0	90	70-130	
Total Trihalomethanes (Calc.)	ug/L		42.8			
trans-1,2-Dichloroethene	ug/L	10	8.7	87	70-130	
trans-1,3-Dichloropropene	ug/L	10	11.1	111	70-130	
Trichloroethene	ug/L	10	8.7	87	70-130	
Trichlorofluoromethane	ug/L	10	8.1	81	70-130	
Vinyl chloride	ug/L	10	8.7	87	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

SAMPLE DUPLICATE: 1402910						
Parameter	Units	70231870001 Result	Dup Result	RPD	Max RPD Qualif	ioro
1,1,1,2-Tetrachloroethane	ug/L	<0.50 <0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L		<0.50		20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50 <0.50	<0.50		20 20 N2	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50 <0.50	<0.50		20 N3	
1,1-Dichloroethane	ug/L	<0.50 <0.50	<0.50		20	
1,1-Dichloroethene	ug/L	<0.50 <0.50	<0.50		20	
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50 <0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50 <0.50	<0.50		20	
1,2-Dichloroethane	ug/L	<0.50 <0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20 20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene 2,2-Dichloropropane	ug/L	<0.50	<0.50 <0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L ug/L	<0.50	<0.50		20	
Benzene	ug/L ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L ug/L	<0.50	<0.50		20	
Bromodichloromethane	ug/L	< 0.50	<0.50		20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	< 0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	0.76	<0.50		20 N3	
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	0.55	0.65	17	20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	< 0.50	<0.50		20	
cis-1,3-Dichloropropene	ug/L	< 0.50	<0.50		20	
Dibromochloromethane	ug/L	< 0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	< 0.50	< 0.50		20	
Ethylbenzene	ug/L	< 0.50	< 0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	< 0.50	< 0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	< 0.50	< 0.50		20	
n-Butylbenzene	ug/L	< 0.50	< 0.50		20	
n-Propylbenzene	ug/L	< 0.50	< 0.50		20	
	-					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

SAMPLE DUPLICATE: 1402910 70231870001 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers < 0.50 o-Xylene ug/L < 0.50 20 <0.50 p-Isopropyltoluene ug/L < 0.50 20 < 0.50 sec-Butylbenzene ug/L < 0.50 20 Styrene < 0.50 < 0.50 20 ug/L tert-Butylbenzene < 0.50 < 0.50 20 ug/L Tetrachloroethene ug/L < 0.50 < 0.50 20 < 0.50 Toluene ug/L < 0.50 20 Total Trihalomethanes (Calc.) 0.55 0.65 17 20 ug/L trans-1,2-Dichloroethene < 0.50 < 0.50 20 ug/L < 0.50 trans-1,3-Dichloropropene ug/L < 0.50 20 < 0.50 Trichloroethene ug/L < 0.50 20 < 0.50 Trichlorofluoromethane ug/L < 0.50 20 < 0.50 Vinyl chloride ug/L < 0.50 20 1,2-Dichlorobenzene-d4 (S) % 86 91 20 88 4-Bromofluorobenzene (S) % 100 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



EPA 522

Analysis Method:

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

QC Batch: 278105

QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70231862001, 70231862003, 70231862004

METHOD BLANK: 1405412 Matrix: Drinking Water

Associated Lab Samples: 70231862001, 70231862003, 70231862004

Blank Reporting Parameter Qualifiers Units Result Limit Analyzed 1,4-Dioxane (p-Dioxane) < 0.020 0.020 10/19/22 12:30 ug/L 1,4-Dioxane-d8 (S) % 94 70-130 10/19/22 12:30

LABORATORY CONTROL SAMPLE: 1405413

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 1,4-Dioxane (p-Dioxane) 2 1.9 93 70-130 ug/L 1,4-Dioxane-d8 (S) 90 70-130 %

MATRIX SPIKE SAMPLE: 1405414 70231844002 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers < 0.020 1,4-Dioxane (p-Dioxane) ug/L 2 1.9 93 70-130 1,4-Dioxane-d8 (S) % 94 70-130

SAMPLE DUPLICATE: 1405415

Date: 10/20/2022 04:20 PM

		70231846002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		30)
1,4-Dioxane-d8 (S)	%	92	89		30)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 10/20/2022 04:20 PM

This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results sh	ould be
--	---------

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- 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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW - MERRICK OPS 10/4

Pace Project No.: 70231862

Date: 10/20/2022 04:20 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70231862001	GAC-3S/4S(SEAMAN NECK GAC E.)	EPA 522	278105	EPA 522	278296
70231862003	WELL 3A N-14347(INFLUENT)	EPA 522	278105	EPA 522	278296
70231862004	WELL 4 N-09338 (INFLUENT)	EPA 522	278105	EPA 522	278296
70231862001	GAC-3S/4S(SEAMAN NECK GAC E.)	EPA 524.2	277512		
70231862002	GÁC-3S/4S(SEAMAN NECKGAC E.)-D	EPA 524.2	277512		
70231862003	WELL 3A N-14347(INFLUENT)	EPA 524.2	277512		
70231862004	WELL 4 N-09338 (INFLUENT)	EPA 524.2	277512		

WO#:70231862 70231862

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately,

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	SAMPLE ID SAMPLE ID One Character per box. Arc 0.81 Arc	Po	E (see valid codes to left)	(G=GRAB	STA	ART	E	ND	AP AT COLLECTION	INERS							es Test	by 524.2)	(522)							Residual Chlorine (Y/N)			
ITEM #	(A-Z, 0-9 /, -)□ Other⊡ Sample lds must be unique Tissue	OTO TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT O	# OF CONTA	Unpreserved H2SO4	HN03	豆	NaOH	Methanol	Other	Analyses	POC (VOCs by 524.2)	1,4-dioxane							Residual C			
1	GAC-3S/4S (Seaman Neck GAC Ef	fluent)	DW	G		1	0.4.22	940		4			x	,	x L			х	х		Ш		Ц						
2	GAC-3S/4S (Seaman Neck GAC Effl	uent)-D	wa	G		1	1.4.22	9:45		2			х				İ	х											
3	Well 3A N-14347 (Influent)		DW	G		10	14.22	9:15		4			х		x			х	x		Ш		Ц						
4	Well 4 N-09338 (Influent)		DW	G		2	041-22	9:10		4			х	;	× L	╁		x	х		Ш	_			4	4	3		
5										Ц	\perp				\downarrow	L							Ц						
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ATTACHMENT 2 MIC ANALYTICAL RESULTS FOR OCTOBER 2022





October 06, 2022

Robert G. Gregory KOMAN Government Services, LLC 180 Gordon Dr. Suite 110 Exton, PA 19341

RE: Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack

kimberley.mack@pacelabs.com

Kimberley Mack.

(631)694-3040

Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC







CERTIFICATIONS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

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 SUMMARY

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70231719001	N-09338 (SEAMAN NECK 4 WELL)-0	Drinking Water	10/03/22 09:50	10/03/22 12:05
70231719002	N-09338 (SEAMAN NECK 4 WELL)-2	Drinking Water	10/03/22 09:52	10/03/22 12:05
70231719003	N-09338 (SEAMAN NECK 4 WELL)-5	Drinking Water	10/03/22 09:55	10/03/22 12:05
70231719004	N-09338 (SEAMAN NECK4 WELL)- 10	Drinking Water	10/03/22 10:00	10/03/22 12:05
70231719005	N-09338 (SEAMAN NECK4 WELL)- 30	Drinking Water	10/03/22 10:20	10/03/22 12:05
70231719006	N-09338(SEAMAN NECK4 WELL)- 30D	Drinking Water	10/03/22 10:22	10/03/22 12:05



SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
70231719001	N-09338 (SEAMAN NECK 4 WELL)-0	SM22 9223B Colilert	SDO	2	
70231719002	N-09338 (SEAMAN NECK 4 WELL)-2	SM22 9223B Colilert	SDO	2	
70231719003	N-09338 (SEAMAN NECK 4 WELL)-5	SM22 9223B Colilert	SDO	2	
70231719004	N-09338 (SEAMAN NECK4 WELL)-10	SM22 9223B Colilert	SDO	2	
70231719005	N-09338 (SEAMAN NECK4 WELL)-30	SM22 9223B Colilert	SDO	2	
70231719006	N-09338(SEAMAN NECK4 WELL)-30D	SM22 9223B Colilert	SDO	2	

PACE-MV = Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338 (SEAMAN NECK 4 Lab ID: 70231719001 Collected: 10/03/22 09:50 Received: 10/03/22 12:05 Matrix: Drinking Water

WELL)-0

Date: 10/06/2022 10:19 AM

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30

 E.coli
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30

CAS No.

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338 (SEAMAN NECK 4 Lab ID: 70231719002 Collected: 10/03/22 09:52 Received: 10/03/22 12:05 Matrix: Drinking Water

WELL)-2

Date: 10/06/2022 10:19 AM

Parameters

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Limit

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30

CAS No.

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338 (SEAMAN NECK 4 Lab ID: 70231719003 Collected: 10/03/22 09:55 Received: 10/03/22 12:05 Matrix: Drinking Water

Limit

WELL)-5

Date: 10/06/2022 10:19 AM

Parameters

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338 (SEAMAN NECK4 Lab ID: 70231719004 Collected: 10/03/22 10:00 Received: 10/03/22 12:05 Matrix: Drinking Water

WELL)-10

Date: 10/06/2022 10:19 AM

Report Reg.

Parameters Results Units Limit

DF CAS No. Qual Limit Prepared Analyzed

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338 (SEAMAN NECK4 Lab ID: 70231719005 Collected: 10/03/22 10:20 Received: 10/03/22 12:05 Matrix: Drinking Water

WELL)-30

Date: 10/06/2022 10:19 AM

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30

 E.coli
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Sample: N-09338(SEAMAN NECK4 Lab ID: 70231719006 Collected: 10/03/22 10:22 Received: 10/03/22 12:05 Matrix: Drinking Water

WELL)-30D

Date: 10/06/2022 10:19 AM

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30

 E.coli
 Absent
 1
 10/03/22 17:30
 10/04/22 11:30



QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

E.coli

Total Coliforms

Date: 10/06/2022 10:19 AM

QC Batch: 276410 Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert Analysis Description: TotCoIDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

10/04/22 11:30

Associated Lab Samples: 70231719001, 70231719002, 70231719003, 70231719004, 70231719005, 70231719006

METHOD BLANK: 1396927 Matrix: Drinking Water

Associated Lab Samples: 70231719001, 70231719002, 70231719003, 70231719004, 70231719005, 70231719006

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Absent 10/04/22 11:30

Absent

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 10/06/2022 10:19 AM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS BACT 10/3

Pace Project No.: 70231719

Date: 10/06/2022 10:19 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70231719001	N-09338 (SEAMAN NECK 4 WELL)-0	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231719002	N-09338 (SEAMAN NECK 4 WELL)-2	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231719003	N-09338 (SEAMAN NECK 4 WELL)-5	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231719004	N-09338 (SEAMAN NECK4 WELL)-10	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231719005	N-09338 (SEAMAN NECK4 WELL)-30	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231719006	N-09338(SEAMAN NECK4 WELL)- 30D	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615

WO#:70231719 70231719

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Client Information:	Section B Required Pro	oject	Info	rmation:						tion (matle	on:												_				Page	1:	4		Of	1
Company:	KOMAN Government Solutions, LLC	Report To:	Robe	ert Gr	regory						ntion		Acco					_			_	_	_	_	_	-1									
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Phone:	(610) 400-0636 Fax	Project Name			W-MERR	ICK OPS	FACILIT	Y			e Pro	•	_	ger:	j.	Tiph	01/07	SNA	13160		1991	2018	200	_	. 1 1 2 2	+	-	-	_	-	-	NY.	211		
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ITEM#	One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique Tesue	WPD ARD OTD TS	MATRIX CODE (\$	SAMPLE TYPE (71145	SAMPLE TEMP AT COL	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	면	NaOH	Na2S203	Methanol	Other	Analyses	Colliert (Fecal/Ecoli)											Residual Chlorine (Y/N)				
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	Gla	ass			Plastic		Misc.
VG9U		AG4U	125mL unpres amber	BP4U	125mL unpreserved	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCI	AG3U	250mL unpres amber	BP3U	250mL unpreserved	R	Terracore Kit
VG9H	40mL HCI clear vial	AG2U	500mL unpres amber	BP2U	500mL unpreserved	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium CI 250mL	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium CI/CuSO4	AG1T	Na Thiosulfale 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCI amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	1L Ammonium Chloride	BP35	250mL Ammonium		
WG90	8oz clear soil jar			BP3R	250mL NH4SO4-		
WG40	4oz clear soil jar	1		BP1Z	1L NaOH, Zn Acetate		
		1		BP1N	1L HNO3 plastic		
		50		BP1B	Na Thiosulfate Amber		

	100	
BP1U	1L unpreserved plastic	
BP3N*	250mL HNO3 plastic	
BP3C	250mL Sodium	
AG2U	500mL unpres amber	

Can	also	be a	BP4N	

Matrix							
WT	Water						
SL	Solid						
NAL	Non-aqueous Liquid						
OL	OIL						
WP	Wipe						
DW	Drinking Water						

	soc	
DG9T	40mL Na Thio amber	2
DG9A	40mL Ascorbic acid	2
DG9Y	Citrate/Na Thiosulfate	2
DG6T	Na Thiosulfate 60mL vial	1
AG3U	250mL unpres amber	
AG3T	Na Thiosulfate 250mL	
BP1B	Na Thiosulfate Amber	
AG1T	Na Thiosultate 1L	2
AG1A	(NH4CL)	2

dditional Comments		
	The state of the s	
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200		

	S	ample	Condition	on Up	on Rece [;]	WO# : 70	231710
Pace Analytical *	Client N	Name: K	65		Project	PM: KMM	Due Date: 10/10/22
Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑Client		()	2000 (200)		_	CLIENT: KGS	10, 10, 10
Tracking #:	LLomm	erciai L	Pace 🗇the	er			
	- □Mo	Coolo	intent Vo	o No		T	
Custody Seal on Cooler/Box Present:Ye Packing Material:Bubble Wrap Bubble			/	_	⊠ N/A		Present: Yes No
Thermometer Used: THI48						Type of Ice: Wet	
Cooler Temperature(*CJ:			or: <u>+ O.1</u> ture Correct		7	_	ling process has begun
Temp should be above freezing to 6.0°C	Coolei	rempera	ture correct	eo(c):	0.1	Date/Time 5035A K	its placed in freezer
USDA Regulated Soil (\square N/A, water sample			81			erson examining cont	ents:10/3/22 SH
Did samples originate in a quarantine zone wi	thin the U	nited Sta	tes: AL, AR, CA	, FL, GA, I	D, LA, MS, NC,	Did samples orignat	e from a foreign source
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?		s \square No				including Hawaii and	l Puerto Rico)? 🗌 Yes💢 No
If Yes to either question, fill out a Regulate	ed Soil Ch	ecklist (F-LI-C-010) a	nd inclu	de with SCUR/	COC paperwork.	•
					1	COMMENTS:	
Chain of Custody Present:	⊠Ye8	□No		1.			
Chain of Custody Filled Out:	ØYes∕	□No		2.	o f		
Chain of Custody Relinquished:	□Ye8	□No		3.			
Sampler Name & Signature on COC:	Z/Yes	□No	□N/A	4.	h .		
Samples Arrived within Hold Time:	⊠yés	□No		5.			
Short Hold Time Analysis (<72hr):	₫Yes	□No		6.			
Rush Turn Around Time Requested:	□Yes	⊠No		7.			
Sufficient Volume: (Triple volume provided for		□No	AC. 1	8.			
Correct Containers Used:	⊠Yes	□No	N	9.			
-Pace Containers Used:	⊒Yes	□No					
Containers Intact:	⊠Yes	□No		10.			
Filtered volume received for Dissolved tests	□Yes	□No	⊠N/A	11.	Note if sed	iment is visible in the d	issolved container.
Sample Labels match COC:	Yes	□No		12.			
-Includes date/time/ID; Matrix: SL WT (
All containers needing preservation have beer	ı □Yes	□No	ďN/A	13.	\square HNO ₃	□H _z SO ₄ □NaO	H □ HCI
checked?		9					
pH paper Lot #					,,		
All containers needing preservation are found			7	Sample	? #		
in compliance with method recommendation?			-614				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	□Yes	□No	ĽN/A				
NAOH>12 Cyanide)							
Exceptions: VOA, Coliform, TOC/DOC, Oil and Gr DRO/8015 (water).	ease,			1.25		1	I - Om
Per Method, VOA pH is checked after analysis				linitiai w	hen completed		Date/Time preservative
Samples checked for dechlorination:	□Yes		€N/A	14.		preservative:	added:
KI starch test strips Lot #	□162	□No	1_IN/A	14.			
Residual chlorine strips Lot #			J.		Donitive for D	on Chloring V N	
SM 4500 CN samples checked for sulfide?	□Yes	□No	□N/A	15.	Positive for R	es. Chlorine? Y N	
Lead Acetate Strips Lot #	□162		□IV/A	IJ.	Positive for S	ulfido2 V M	
Headspace in VOA Vials (>6mm):	□Yes	□No	ØN/A	16.	PUSITIVE IUI 3	ulfide? Y N	
Trip Blank Present:	□Yes		ØN/A	17.			
Trip Blank Custody Seals Present	□Yes		⊠N/A	17.			
Pace Trip Blank Lot # (if applicable):	LI les		Lan/ A				
Client Notification/ Resolution:				Fiold Do	to Doguisod?	V / V	
Person Contacted:				LIGIU DA	ta Required?	Y / N	
Comments/ Resolution:					Date/Time:	-	

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





October 06, 2022

Robert G. Gregory KOMAN Government Services, LLC 180 Gordon Dr. Suite 110 Exton, PA 19341

RE: Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack

kimberley.mack@pacelabs.com

Kimberley Mack.

(631)694-3040

Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC







CERTIFICATIONS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

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 SUMMARY

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70231741001	GAC-3S/4S-VESSEL#500-0	Drinking Water	10/03/22 10:40	10/03/22 12:05
70231741002	GAC-3S/4S-VESSEL#500-2	Drinking Water	10/03/22 10:42	10/03/22 12:05
70231741003	GAC-3S/4S-VESSEL#500-5	Drinking Water	10/03/22 10:45	10/03/22 12:05
70231741004	GAC-3S/4S-VESSEL#500-10	Drinking Water	10/03/22 10:50	10/03/22 12:05
70231741005	GAC-3S/4S-VESSEL#500-30	Drinking Water	10/03/22 11:10	10/03/22 12:05
70231741006	GAC-3S/4S-VESSEL#600-0	Drinking Water	10/03/22 11:20	10/03/22 12:05
70231741007	GAC-3S/4S-VESSEL#600-2	Drinking Water	10/03/22 11:22	10/03/22 12:05
70231741008	GAC-3S/4S-VESSEL#600-5	Drinking Water	10/03/22 11:25	10/03/22 12:05
70231741009	GAC-3S/4S-VESSEL#600-10	Drinking Water	10/03/22 11:30	10/03/22 12:05
70231741010	GAC-3S/4S-VESSEL#600-30	Drinking Water	10/03/22 11:50	10/03/22 12:05



SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70231741001	GAC-3S/4S-VESSEL#500-0	SM22 9223B Colilert	SDO	2
70231741002	GAC-3S/4S-VESSEL#500-2	SM22 9223B Colilert	SDO	2
70231741003	GAC-3S/4S-VESSEL#500-5	SM22 9223B Colilert	SDO	2
70231741004	GAC-3S/4S-VESSEL#500-10	SM22 9223B Colilert	SDO	2
70231741005	GAC-3S/4S-VESSEL#500-30	SM22 9223B Colilert	SDO	2
70231741006	GAC-3S/4S-VESSEL#600-0	SM22 9223B Colilert	SDO	2
70231741007	GAC-3S/4S-VESSEL#600-2	SM22 9223B Colilert	SDO	2
70231741008	GAC-3S/4S-VESSEL#600-5	SM22 9223B Colilert	SDO	2
70231741009	GAC-3S/4S-VESSEL#600-10	SM22 9223B Colilert	SDO	2
70231741010	GAC-3S/4S-VESSEL#600-30	SM22 9223B Colilert	SDO	2

PACE-MV = Pace Analytical Services - Melville





ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#500-0 Lab ID: 70231741001 Collected: 10/03/22 10:40 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#500-2 Lab ID: 70231741002 Collected: 10/03/22 10:42 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#500-5 Lab ID: 70231741003 Collected: 10/03/22 10:45 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Parameters

Sample: GAC-3S/4S-VESSEL#500-Lab ID: 70231741004 Collected: 10/03/22 10:50 Received: 10/03/22 12:05 Matrix: Drinking Water

10

Date: 10/06/2022 10:19 AM

Report Reg. Results Units Limit DF CAS No. Qual Limit

Prepared

Analyzed

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Sample: GAC-3S/4S-VESSEL#500- Lab ID: 70231741005 Collected: 10/03/22 11:10 Received: 10/03/22 12:05 Matrix: Drinking Water

30

Date: 10/06/2022 10:19 AM

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#600-0 Lab ID: 70231741006 Collected: 10/03/22 11:20 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#600-2 Lab ID: 70231741007 Collected: 10/03/22 11:22 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Sample: GAC-3S/4S-VESSEL#600-5 Lab ID: 70231741008 Collected: 10/03/22 11:25 Received: 10/03/22 12:05 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Parameters

Sample: GAC-3S/4S-VESSEL#600-Lab ID: 70231741009 Collected: 10/03/22 11:30 Received: 10/03/22 12:05 Matrix: Drinking Water

Limit

10

Date: 10/06/2022 10:19 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Parameters

Sample: GAC-3S/4S-VESSEL#600-Lab ID: 70231741010 Collected: 10/03/22 11:50 Received: 10/03/22 12:05 Matrix: Drinking Water

Limit

Date: 10/06/2022 10:19 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/03/22 17:30 10/04/22 11:30 E.coli **Absent** 10/03/22 17:30 10/04/22 11:30



QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

QC Batch: 276410 Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70231741001, 70231741002, 70231741003, 70231741004, 70231741005, 70231741006, 70231741007,

70231741008, 70231741009, 70231741010

METHOD BLANK: 1396927 Matrix: Drinking Water

Associated Lab Samples: 70231741001, 70231741002, 70231741003, 70231741004, 70231741005, 70231741006, 70231741007,

70231741008, 70231741009, 70231741010

Blank Reporting

ParameterUnitsResultLimitAnalyzedQualifiersE.coliAbsent10/04/22 11:30Total ColiformsAbsent10/04/22 11:30

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 10/06/2022 10:19 AM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS 10/3

Pace Project No.: 70231741

Date: 10/06/2022 10:19 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70231741001	GAC-3S/4S-VESSEL#500-0	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741002	GAC-3S/4S-VESSEL#500-2	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741003	GAC-3S/4S-VESSEL#500-5	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741004	GAC-3S/4S-VESSEL#500-10	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741005	GAC-3S/4S-VESSEL#500-30	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741006	GAC-3S/4S-VESSEL#600-0	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741007	GAC-3S/4S-VESSEL#600-2	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741008	GAC-3S/4S-VESSEL#600-5	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741009	GAC-3S/4S-VESSEL#600-10	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615
70231741010	GAC-3S/4S-VESSEL#600-30	SM22 9223B Colilert	276410	SM22 9223B Colilert	276615

WO#:70231741 70221744

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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BP1Z 1L NaOH, Zn Acetate

BP1N 1L HNO3 plastic
BP1B Na Thiosulfale Amber

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	197		

Page 20 of 21

NG40 4oz clear soil jar

Additional Comments

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Did samples originate in a quarantine zone wi	ithin the Ur	nited Sta	tes: AL, AR, CA	, FL, GA,	ID, LA, MS, NC,	Did sample	es orignate f	rom a foreign so	ource
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?		i □No						uerto Rico)? 🛘	
If Yes to either question, fill out a Regulate	ed Soil Ch	ecklist (F-LI-C-010) ai	nd incl	ude with SCUR/			-	
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Chain of Custody Relinquished:	⊠Yes	□No		3.					
Sampler Name & Signature on COC:	□Yes	□No	□N/A	4.	*				
Samples Arrived within Hold Time:	□Yes	□No		5.					
Short Hold Time Analysis (<72hr):	⊠Yes	□No		6.					
Rush Turn Around Time Requested:	□Yes	⊠No	7	7.					
Sufficient Volume: (Triple volume provided for		□No		8.					
Correct Containers Used:	⊠Yes	□No		9.					
-Pace Containers Used:	⊠Yes	□No							
Containers Intact:	⊠Yes	□No		10.					
Filtered volume received for Dissolved tests	□Yes	□No	⊠N/A	11.	Note if sec	diment is visib	le in the diss	olved container.	
Sample Labels match COC:	⊠Yes	□No		12.					
-Includes date/time/ID, Matrix: SL(VIT)(
All containers needing preservation have beer	n □Yes	□No	□N/A	13.	☐ HNO ₃	□H ₂ SO ₄	□ NaOH	☐ HCI	
checked?		((#))							
pH paper Lot # All containers needing preservation are found	to be			Como	lo #				
in compliance with method recommendation?			1	Samp	ie#				
·			ZN1/A						
(HNO ₃ , H ₂ SO ₄ , HCI, NaOH>9 Sulfide, NAOH>12 Cyanide)	□Yes	□No	⊿∐N/A						
Exceptions: VOA, Coliform, TOC/DOC, Oil and Gr									
DRO/8015 (water).	ease,			Initial .		1 1 1 11 - (In . /T	
Per Method, VOA pH is checked after analysis				iniuai	when completed			Date/Time pro	eservative
Samples checked for dechlorination:	□Yes	□No	⊠N/A	14.		preservativ	/6.7	added:	
KI starch test strips Lot #	□162		JEIN/ A	14.					
Residual chlorine strips Lot #					Dogitive for F	Res. Chlorine?	V N		
SM 4500 CN samples checked for sulfide?	□Yes	□No	⊠N/A	15.	POSITIVE TOLK	tes. Chiorne?	Y IV		
Lead Acetate Strips Lot #	□162	LINU	(ZN/A	IJ.	Positive for S	Pulfido2	V N		
Headspace in VOA Vials (>6mm):	□Yes	□No	⊠N/A	16.	POSITIVE IOI 3	ounde!	Y N		
Trip Blank Present:	□Yes		ØΝ/A	17.					
Trip Blank Custody Seals Present	□Yes		ZN/A	1/(%)					
Pace Trip Blank Lot # (if applicable):	L163	LINU	yzin/ A						
Client Notification/ Resolution:				Field D	ata Required?		V / M		
Person Contacted:				Lieid D	ata kequireu? Date/Time:		Y / N		
Comments/ Resolution:					Date/ Hitte:				

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





October 18, 2022

Robert G. Gregory KOMAN Government Services, LLC 180 Gordon Dr. Suite 110 Exton, PA 19341

RE: Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack

kimberley.mack@pacelabs.com

Kimberley Mack.

(631)694-3040

Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC





CERTIFICATIONS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

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 SUMMARY

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70232905001	GAC-3S/4S- VESSEL #300-0	Drinking Water	10/11/22 08:40	10/11/22 11:38
70232905002	GAC-3S/4S- VESSEL #300-2	Drinking Water	10/11/22 08:42	10/11/22 11:38
70232905003	GAC-3S/4S- VESSEL #300-5	Drinking Water	10/11/22 08:45	10/11/22 11:38
70232905004	GAC-3S/4S- VESSEL #300-10	Drinking Water	10/11/22 08:50	10/11/22 11:38
70232905005	GAC-3S/4S- VESSEL #300-30	Drinking Water	10/11/22 09:10	10/11/22 11:38



SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Sample ID	Method	Analysts	Analytes Reported
GAC-3S/4S- VESSEL #300-0	SM22 9223B Colilert	SDO	2
GAC-3S/4S- VESSEL #300-2	SM22 9223B Colilert	SDO	2
GAC-3S/4S- VESSEL #300-5	SM22 9223B Colilert	SDO	2
GAC-3S/4S- VESSEL #300-10	SM22 9223B Colilert	SDO	2
GAC-3S/4S- VESSEL #300-30	SM22 9223B Colilert	SDO	2
	GAC-3S/4S- VESSEL #300-0 GAC-3S/4S- VESSEL #300-2 GAC-3S/4S- VESSEL #300-5 GAC-3S/4S- VESSEL #300-10	GAC-3S/4S- VESSEL #300-0 SM22 9223B Colilert GAC-3S/4S- VESSEL #300-2 SM22 9223B Colilert GAC-3S/4S- VESSEL #300-5 SM22 9223B Colilert GAC-3S/4S- VESSEL #300-10 SM22 9223B Colilert	GAC-3S/4S- VESSEL #300-0 SM22 9223B Colilert SDO GAC-3S/4S- VESSEL #300-2 SM22 9223B Colilert SDO GAC-3S/4S- VESSEL #300-5 SM22 9223B Colilert SDO GAC-3S/4S- VESSEL #300-10 SM22 9223B Colilert SDO

PACE-MV = Pace Analytical Services - Melville

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Sample: GAC-3S/4S- VESSEL #300- Lab ID: 70232905001 Collected: 10/11/22 08:40 Received: 10/11/22 11:38 Matrix: Drinking Water

0

Date: 10/18/2022 08:44 AM

Parameters Results Units Limit DF Prepared Analyzed CAS No.

Reg.

Report

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Sample: GAC-3S/4S- VESSEL #300- Lab ID: 70232905002 Collected: 10/11/22 08:42 Received: 10/11/22 11:38 Matrix: Drinking Water

2

Date: 10/18/2022 08:44 AM

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Sample: GAC-3S/4S- VESSEL #300-Lab ID: 70232905003 Collected: 10/11/22 08:45 Received: 10/11/22 11:38 Matrix: Drinking Water

Reg.

Date: 10/18/2022 08:44 AM

Report Results Units Limit DF **Parameters** Limit Prepared Analyzed

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Total Coliforms Absent 10/11/22 17:55 10/12/22 11:55 E.coli **Absent** 10/11/22 17:55 10/12/22 11:55

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Parameters

Sample: GAC-3S/4S- VESSEL #300-Lab ID: 70232905004 Collected: 10/11/22 08:50 Received: 10/11/22 11:38 Matrix: Drinking Water

Limit

Date: 10/18/2022 08:44 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/11/22 17:55 10/12/22 11:55 E.coli **Absent** 10/11/22 17:55 10/12/22 11:55

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Parameters

Sample: GAC-3S/4S- VESSEL #300-Lab ID: 70232905005 Collected: 10/11/22 09:10 Received: 10/11/22 11:38 Matrix: Drinking Water

Limit

Date: 10/18/2022 08:44 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/11/22 17:55 10/12/22 11:55 E.coli **Absent** 10/11/22 17:55 10/12/22 11:55



QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Date: 10/18/2022 08:44 AM

QC Batch: 277478 Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70232905001, 70232905002, 70232905003, 70232905004, 70232905005

METHOD BLANK: 1402196 Matrix: Drinking Water

Associated Lab Samples: 70232905001, 70232905002, 70232905003, 70232905004, 70232905005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

 E.coli
 Absent
 10/12/22 11:55

 Total Coliforms
 Absent
 10/12/22 11:55

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 10/18/2022 08:44 AM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS 10/11

Pace Project No.: 70232905

Date: 10/18/2022 08:44 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70232905001	GAC-3S/4S- VESSEL #300-0	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232905002	GAC-3S/4S- VESSEL #300-2	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232905003	GAC-3S/4S- VESSEL #300-5	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232905004	GAC-3S/4S- VESSEL #300-10	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232905005	GAC-3S/4S- VESSEL #300-30	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058

CHAIN-OF-CUSTODY / Analytical Reques The Chain-of-Custody is a LEGAL DOCUMENT. All relevant field

WO#:70232905

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Phone;	RGregory@komangs.com (610) 400-0636 Fax:	Purchase		#:	02807-2	204						uote:	acco	unts	pay	able	(a) ko	ma	ngs	com				\neg			- 4	Regu	latory	Agency	-	
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Sample Container Count

WO#:70232905

PM: KMM

Due Date: 10/18/22

CLIENT: KGS

Client: KGS
Profile # 5456

WORK ORDER: NVAW - Mexick OPS 19/11 Notes

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COC Line Item	Matrix	VG9U	2697	NG98	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG10	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	ВРЗС	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	œ	WG2U	WGFU	WGKU	WGDU	ZPLC	N GN	WP	20	soc					
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VG9U	40mL unpres clear vial	AG4U	125mL unpres amber	BP4U	125mL unpreserved	SP5T	120mL Coliform Na Tr
VG9C	40mL Ascorbic-HCI	AG3U	250mL unpres amber	BP3U	250mL unpreserved	R	Terracore Kit
VG9H	40mL HCI clear vial	AG2U	500mL unpres amber	BP2U	500mL unpreserved	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium CI/CuSO4	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCI amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	1L Ammonium Chloride	BP35	250mL Ammonium		
WG90	8oz clear soil jar			BP3R	250mL NH4SO4-		
WG40	4oz clear soil jar	1		BP1Z	1L NaOH, Zn Acetate	7	

BP1N 1L HNO3 plastic BP1B Na Thiosulfate Amber

1L unpreserved plastic	BP1U
250mL HNO3 plastic	BP3N*
250mL Sodium	BP3C
500mL unpres amber	AG2U

Use Point Number Spreadsheet

AG1T Na Thiosultate 1L

AG1A (NH4CL)

DG9T

AG3U AG3T BP1B

SOC	
40mL Na Thio amber	2
40mL Ascorbic acid	2
Citrate/Na Thiosulfate	2
Na Thiosulfate 60mL vial	1
250mL unpres amber	
Na Thiosulfate 250mL	
Na Thiosulfate Amber	

2

	Matrix	1
ΛŢ	Water	1
SL.	Solid	٦
JAL	Non-aqueous Liquid	٦
DL	OIL	1
NΡ	Wipe	
WC	Drinking Water	٦

Additional Comments

^{*} Can also be a BP4N

	Sa	mple (Conditio	on Up	on Receir	WO#: 702	222005
Pace Analytical®					Design #	WUTH · / WZ	232303
/ door transcroal	Client Na				Project #	PM: KMM	Due Date: 10/18/
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Temp should be above freezing to 6.0° C USDA Regulated Soil (\square N/A, water sample) =	2	±	Date a	and Initials of per	son examining content	S:
Did samples originate in a quarantine zone wi		itad State	e- AL AD CA			Did samples orignate from	
NM, NY, OK, OR, SC, TN, TX, or VA [check map]?			3. AL, AN, OA	, 1 L, 0A,	10, EA, 110, 110,		erto Rico)? Yes 💢 No
If Yes to either question, fill out a Regulate			I I−C−010∫ ລາ	nd inch	ide with SCUR/CO	C nanerwork	C(10 (100): 100)=
in res to either question, fill out a Regulate	au Suit Crie	CKIISC (1 -	L1-0-010) di	T	Tue with ocoly on	COMMENTS:	
Chain of Custody Present:	Yes	□No		1	K	00111121110.	_
Chain of Custody Filled Out:	□ Wes	□No "		2.	14		
Chain of Custody Relinquished:	□Yes			3.			ì
Sampler Name & Signature on COC:	Ves	□No	□N/A	4.	Te .		
Samples Arrived within Hold Time;	□Yes		Lany	5.			
Short Hold Time Analysis (<72hr):	⊠Yes			6.			
Rush Turn Around Time Requested:	□Yes	No	7.1	7			
Sufficient Volume: (Triple volume provided for		□No	- In 12	8.			
Correct Containers Used:	□Yes	□No	(5)	9.			
-Pace Containers Used:	□Yes	□No	K s				
Containers Intact:	☑Yes	□No		10.			
Filtered volume received for Dissolved tests	☑Yes w 2	² □No	☑N/A	11.	Note if sedim	ent is visible in the disso	lved container.
Sample Labels match COC:	roYes	□No		12.			
-Includes date/time/ID, Matrix: SL WI	11.3735-00.0000						1.0
All containers needing preservation have been		□No	ďN/A	13.	□ HNO ₃	□ H ₂ SO ₄ □ NaOH	□ HCI
checked?		r.E					
pH paper Lot #							
All containers needing preservation are found				Samp	le#		
in compliance with method recommendation	?						
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	□Yes	□No	ďN/A				
NAOH>12 Cyanide)						14	
Exceptions: VOA, Coliform, TOC/DOC, Oil and G	rease,			_			1 60
DRO/8015 (water).				Initial	when completed:	Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysis			-	-		preservative:	added:
Samples checked for dechlorination:	□Yes	□No	ZN/A	14.			*
KI starch test strips Lot #				1	D ::: (D	011 : 0 V N	
Residual chlorine strips Lot #			-levte	15	Positive for Res	s. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	□Yes	□No	M/A	15.	p ''' (-0.1	C.L.O. V. N.	
Lead Acetate Strips Lot #			Luti	10	Positive for Sul	fide? Y N	
Headspace in VOA Vials (>6mm):	□Yes	□No	₫Ŋ/A	16.			
Trip Blank Present:	□Yes	□No	ZIN/A	17.			
Trip Blank Custody Seals Present	□Yes	□No	⊠N/A				
Pace Trip Blank Lot # (if applicable):				L: 41 - 4	Nata Daguise Ja	Y / N	
Client Notification/ Resolution:				LIG10 F	Data (Time)		
Person Contacted: Comments/ Resolution:					Date/Time:		
Comments/ kesolution:							

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





October 18, 2022

Robert G. Gregory KOMAN Government Services, LLC 180 Gordon Dr. Suite 110 Exton, PA 19341

RE: Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack

kimberley.mack@pacelabs.com

Kimberley Mack.

(631)694-3040

Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC



Melville, NY 11747 (631)694-3040



CERTIFICATIONS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Maryland Certification #: 208

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478

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 SUMMARY

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70232909001	GAC-3S/4S-VESSEL#400-0	Drinking Water	10/11/22 09:20	10/11/22 11:38
70232909002	GAC-3S/4S-VESSEL#400-2	Drinking Water	10/11/22 09:22	10/11/22 11:38
70232909003	GAC-3S/4S-VESSEL#400-5	Drinking Water	10/11/22 09:25	10/11/22 11:38
70232909004	GAC-3S/4S-VESSEL#400-10	Drinking Water	10/11/22 09:30	10/11/22 11:38
70232909005	GAC-3S/4S-VESSEL#400-30	Drinking Water	10/11/22 09:50	10/11/22 11:38



SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70232909001	GAC-3S/4S-VESSEL#400-0	SM22 9223B Colilert	SDO	2
70232909002	GAC-3S/4S-VESSEL#400-2	SM22 9223B Colilert	SDO	2
70232909003	GAC-3S/4S-VESSEL#400-5	SM22 9223B Colilert	SDO	2
70232909004	GAC-3S/4S-VESSEL#400-10	SM22 9223B Colilert	SDO	2
70232909005	GAC-3S/4S-VESSEL#400-30	SM22 9223B Colilert	SDO	2

PACE-MV = Pace Analytical Services - Melville

(631)694-3040



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Date: 10/18/2022 08:46 AM

Sample: GAC-3S/4S-VESSEL#400-0 Lab ID: 70232909001 Collected: 10/11/22 09:20 Received: 10/11/22 11:38 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

 E.coli
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

(631)694-3040



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Date: 10/18/2022 08:46 AM

Sample: GAC-3S/4S-VESSEL#400-2 Lab ID: 70232909002 Collected: 10/11/22 09:22 Received: 10/11/22 11:38 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

 E.coli
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

(631)694-3040



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Date: 10/18/2022 08:46 AM

Sample: GAC-3S/4S-VESSEL#400-5 Lab ID: 70232909003 Collected: 10/11/22 09:25 Received: 10/11/22 11:38 Matrix: Drinking Water

Report Reg.

Parameters Results Units Limit Limit DF Prepared Analyzed CAS No. Qual

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

 Total Coliforms
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

 E.coli
 Absent
 1
 10/11/22 17:55
 10/12/22 11:55

CAS No.

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Parameters

Sample: GAC-3S/4S-VESSEL#400-Lab ID: 70232909004 Collected: 10/11/22 09:30 Received: 10/11/22 11:38 Matrix: Drinking Water

Limit

10

Date: 10/18/2022 08:46 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Results

Total Coliforms Absent 10/11/22 17:55 10/12/22 11:55 E.coli **Absent** 10/11/22 17:55 10/12/22 11:55

CAS No.

Analyzed

(631)694-3040

Qual



ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS BACT 10/11

Results

Pace Project No.: 70232909

Parameters

Sample: GAC-3S/4S-VESSEL#400-Lab ID: 70232909005 Collected: 10/11/22 09:50 Received: 10/11/22 11:38 Matrix: Drinking Water

Limit

Date: 10/18/2022 08:46 AM

Report Reg. Limit

DF

Prepared

MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert

Pace Analytical Services - Melville

Units

Total Coliforms Absent 10/11/22 17:55 10/12/22 11:55 E.coli **Absent** 10/11/22 17:55 10/12/22 11:55



QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Date: 10/18/2022 08:46 AM

QC Batch: 277478 Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70232909001, 70232909002, 70232909003, 70232909004, 70232909005

METHOD BLANK: 1402196 Matrix: Drinking Water

Associated Lab Samples: 70232909001, 70232909002, 70232909003, 70232909004, 70232909005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

 E.coli
 Absent
 10/12/22 11:55

 Total Coliforms
 Absent
 10/12/22 11:55

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 10/18/2022 08:46 AM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS BACT 10/11

Pace Project No.: 70232909

Date: 10/18/2022 08:46 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70232909001	GAC-3S/4S-VESSEL#400-0	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232909002	GAC-3S/4S-VESSEL#400-2	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232909003	GAC-3S/4S-VESSEL#400-5	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232909004	GAC-3S/4S-VESSEL#400-10	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058
70232909005	GAC-3S/4S-VESSEL#400-30	SM22 9223B Colilert	277478	SM22 9223B Colilert	278058

WO#:70232909 70232909

CHAIN-OF-CUSTODY / Analytical Request C The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu.

Section A		Section B	_14	1-6-						Section		forma	flor-														P	age:	1	(Of	,
	Client Information:	Required Pro		_	_			_	_	Attent	_		count	e Davi	m hla		_	_	-	_			-					.50.				
Company:		Report To: Copy To:	NCE		regory							Name				emne	nt Sol	utlon	s. LL	С		-	_	\dashv								
Address:	180 Gordon Dr., Suite 110	Сору го.	NCL	JOR				_	\dashv	Addre	_		ccou				_	_	_		_			\neg		-		Regul	atory Ag	ency		
E-all:	Exton, PA	Purchase Ord	der#•	_	02607-204	4			-	Pace			-000	100	M.L.M.	100	1111	20.00	41.23	-		+	-	+	_		_	-		-		
	RGregory@komanas.com (610) 400-0636 Fax:	Project Name			W-MERRI		FACILITY		-			ect Ma	nager		Kim	berle	ev.N	lack	@P	acela	abs.c	on		-				Stat	e / Locati	on		
Phone:	(610) 400-0636 Fax:	Project #: 020			WA-IAI EVIKI	UK UF3	AULIT		-	Pace					1-111.		2,111	- TAXA			- Control of the Cont	1	== 1	\neg					NY			
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	MATRIX	CODE	es to left)	C=COMP)		COLLE	ECTED		NO			Ę	rese	rvati	ves			Z.		I						I		1				
	SAMPLE ID SAMPLE ID Sol/Sold Oil	WT ter WW P SL	(see valid codes to left)		STA	\RT	El	ID.	AT COLLECTION	IERS								s Test	VEcoli)									brine (V/N)				
ITEM #	One Character per box. Wije (A-Z, 0-9 / , -) Air Other Sample lds must be unique Tissue	OL WP AR OT TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP	# OF CONTAINERS	Unpreserved	H2SO4	HCI HCI	NaOH	Na2S203	Methanol	Other	Analyses Test	Colifert (Fecal/Ecoli)									Doeidie Chbrine (VIV)	50 150 150 150 150 150 150 150 150 150 1			
1	GAC-3S/4S-Vessel#400-0		DW	G			2/11-22	9120		1	x								х		_	\sqcup						Ц				
2	GAC-3S/4S-Vessel#400-2		DW	G		10	111.22	9:22		1	x						_	1	x	-	_	1			_			Ц	-			
3	GAC-3S/4S-Vesse#400-5		DW	G		10	11.22	9:25		1	x			L	L				х		1	\perp			_	1		Ц				
4	GAC-3S/4S-Vessel#400-10		DW	G		1	04132	9130		1	x	4	_	\perp	_	Ш	_		x	4	\perp	4	_		-	_	_	Н	_			
5	GAC-3S/4S-Vessel#400-30		DΜ	G			0-11-22	9:50		1	x	4	_	_	_	Ш	\perp	1	х	1	+	1			-	+	-	Н				
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	S	ample	Conditi	ion Upon Receipt
Pace Analytical®				Prc WO#: 70232909
/ acc Analytical	Client	Name:	111	D - Date: 10/10/22
		1	(01)	PH: Kills
Courier: Fed Ex UPS USPS Client	Comn	nercial []ace □th	CLIENT: KGS
Tracking #:				
Custody Seal on Cooler/Box Present: We				
Packing Material: Bubble Wrap Bubble				
			r: <u>+ ()</u> .	
Cooler Temperature(°CJ: 72	_Cooler	Tempera	ture Correct	ted(°C): /-3 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C		18		
USDA Regulated Soil (TN/A, water sample			•	Date and Initials of person examining contents: 5H 10/11/22
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				
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?				
If Yes to either question, fill out a Regulation	ed Soil C	hecklist (f	-LI-C-010) a	and include with SCUR/COC paperwork.
				COMMENTS:
Chain of Custody Present:	⊘ Yes	□No		l.
Chain of Custody Filled Out:	eres	□No	*	2.
Chain of Custody Relinquished:	☐ Y es	□No		3.
Sampler Name & Signature on COC:	□Yes	□No	□N/A	4.
Samples Arrived within Hold Time:	T Yes	□No		5.
Short Hold Time Analysis (<72hr):	□Yes	□No		6.
Rush Turn Around Time Requested:	□Yes	⊠ ₩0	•	7.
Sufficient Volume: (Triple volume provided for		□No	2.	8.
Correct Containers Used:	⊡Yes	□No	N	9.
-Pace Containers Used:	Tayes	□No		
Containers Intact:	□(Yes	□No		10.
Filtered volume received for Dissolved tests	□Yes	□No	⊠N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	⊡Yes	□No		12.
-Includes date/time/ID, Matrix: SLWT/I			-66	17
All containers needing preservation have been	n □Yes	□No	ØN/A	13. \square HNO ₃ \square H ₂ SO ₄ \square NaOH . \square HCI
checked? pH paper Lot #		3		
All containers needing preservation are found	to be			Sample #
in compliance with method recommendations				
[HNO ₃ , H ₂ SO ₄ , HCI, NaOH>9 Sulfide,	□Yes	□No	⊠N/A	
NAOH>12 Cyanide	_,,,,			1947
Exceptions: VOA Coliform, TOC/DOC, Oil and Go	rease.			180
DRO/8015 (water).			2:	Initial when completed: Lot # of added Date/Time preservative
Per Method, VOA pH is checked after analysis				preservative: added:
Samples checked for dechlorination:	□Yes	□No	₫N/A	14.
KI starch test strips Lot #				8
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	□Yes	□No	SN/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	□Yes	□No	ØN/A	16.
Trip Blank Present:	□Yes	□No	DNA	17.
Trip Blank Custody Seals Present	□Yes	□No	√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.