



3 March 2022

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

**Subject: February 2022 Annual 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 February 2022 and present the associated analytical results.

### **Sampling Requirements**

Nassau County Department of Health (NCDOH) 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.

## **February 2022 Sampling Summary**

### Monthly POC Sampling

On 4 February 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 February 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 NCDOH requirements.

**Table 1 - TCE Analytical Results<sup>(1)</sup> – February 2022**

<b>Date</b>	<b>Well 3A Raw</b> [N-14347 (Seaman Neck 3A Well)]	<b>Well 4S Raw</b> [N-09338 (Seaman Neck 4S Well)]	<b>Effluent from GAC System</b> [GAC-3S/4S (Seaman Neck GAC Effluent)]	<b>Effluent from GAC System (Duplicate)</b> [GAC-3S/4S (Seaman Neck GAC Effluent)-D]
01/12/2022	17.8	4.0	ND	ND

Notes:

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

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

Please contact me at 610-400-0636 or [rgregory@komangs.com](mailto:rgregory@komangs.com) with any questions or concerns regarding this report.

Sincerely,

**KOMAN Government Solutions, LLC**



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  
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 FEBRUARY 2022**

February 15, 2022

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

RE: Project: NYAW-MERRICK OPS FACILITY 2/4  
Pace Project No.: 70203071

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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  
(631)694-3040  
Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: NYAW-MERRICK OPS FACILITY 2/4  
Pace Project No.: 70203071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70203071001	GAC-3S/4S	Drinking Water	02/04/22 07:40	02/04/22 12:40
70203071002	GAC-3S/4S-D	Drinking Water	02/04/22 07:50	02/04/22 12:40
70203071003	WELL 3A N-14347	Drinking Water	02/04/22 08:10	02/04/22 12:40
70203071004	WELL 4 N-09338	Drinking Water	02/04/22 08:30	02/04/22 12:40

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### SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70203071001	GAC-3S/4S	EPA 522	AD1	2
		EPA 524.2	KGG	62
70203071002	GAC-3S/4S-D	EPA 524.2	KGG	62
70203071003	WELL 3A N-14347	EPA 522	AD1	2
		EPA 524.2	KGG	62
70203071004	WELL 4 N-09338	EPA 522	AD1	2
		EPA 524.2	KGG	62

PACE-MV = Pace Analytical Services - Melville

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Sample: GAC-3S/4S      Lab ID: 70203071001      Collected: 02/04/22 07:40      Received: 02/04/22 12:40      Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>522 MSS 1,4 Dioxane (SIM)</b>									
Analytical Method: EPA 522    Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	1.5	ug/L	0.020		1	02/06/22 09:07	02/07/22 23:58	123-91-1	
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	81	%	70-130		1	02/06/22 09:07	02/07/22 23:58		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		02/15/22 12:15	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		02/15/22 12:15	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		02/15/22 12:15	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		02/15/22 12:15	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		02/15/22 12:15	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 12:15	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 12:15	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		02/15/22 12:15	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:15	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:15	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:15	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:15	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:15	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:15	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:15	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:15	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:15	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		02/15/22 12:15	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		02/15/22 12:15	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		02/15/22 12:15	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		02/15/22 12:15	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

**Sample: GAC-3S/4S**      **Lab ID: 70203071001**      Collected: 02/04/22 07:40      Received: 02/04/22 12:40      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		02/15/22 12:15	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	103-65-1	
Styrene	<0.50	ug/L	0.50		1		02/15/22 12:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		02/15/22 12:15	127-18-4	
Toluene	<0.50	ug/L	0.50		1		02/15/22 12:15	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		02/15/22 12:15		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:15	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:15	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		02/15/22 12:15	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:15	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		02/15/22 12:15	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		02/15/22 12:15	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		02/15/22 12:15	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	118	%	70-130		1		02/15/22 12:15	2199-69-1	
4-Bromofluorobenzene (S)	120	%	70-130		1		02/15/22 12:15	460-00-4	

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4  
Pace Project No.: 70203071

**Sample: GAC-3S/4S-D**      **Lab ID: 70203071002**      Collected: 02/04/22 07:50      Received: 02/04/22 12:40      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		02/15/22 12:41	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		02/15/22 12:41	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		02/15/22 12:41	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		02/15/22 12:41	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		02/15/22 12:41	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 12:41	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 12:41	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		02/15/22 12:41	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:41	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:41	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:41	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:41	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:41	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:41	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:41	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:41	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 12:41	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		02/15/22 12:41	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		02/15/22 12:41	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		02/15/22 12:41	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		02/15/22 12:41	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		02/15/22 12:41	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	103-65-1	
Styrene	<0.50	ug/L	0.50		1		02/15/22 12:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		02/15/22 12:41	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Sample: GAC-3S/4S-D      Lab ID: 70203071002      Collected: 02/04/22 07:50      Received: 02/04/22 12:40      Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Toluene	<0.50	ug/L	0.50		1		02/15/22 12:41	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		02/15/22 12:41		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		02/15/22 12:41	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		02/15/22 12:41	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		02/15/22 12:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		02/15/22 12:41	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 12:41	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		02/15/22 12:41	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		02/15/22 12:41	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		02/15/22 12:41	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	117	%	70-130		1		02/15/22 12:41	2199-69-1	
4-Bromofluorobenzene (S)	118	%	70-130		1		02/15/22 12:41	460-00-4	

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

**Sample: WELL 3A N-14347**      **Lab ID: 70203071003**      Collected: 02/04/22 08:10      Received: 02/04/22 12:40      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>522 MSS 1,4 Dioxane (SIM)</b>									
Analytical Method: EPA 522    Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	2.2	ug/L	0.020		1	02/06/22 09:07	02/08/22 00:16	123-91-1	
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	103	%	70-130		1	02/06/22 09:07	02/08/22 00:16		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		02/15/22 13:07	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		02/15/22 13:07	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		02/15/22 13:07	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		02/15/22 13:07	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		02/15/22 13:07	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 13:07	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 13:07	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		02/15/22 13:07	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:07	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:07	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:07	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:07	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:07	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:07	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:07	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:07	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:07	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		02/15/22 13:07	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		02/15/22 13:07	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		02/15/22 13:07	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		02/15/22 13:07	75-09-2	

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Sample: **WELL 3A N-14347** Lab ID: **70203071003** Collected: 02/04/22 08:10 Received: 02/04/22 12:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		02/15/22 13:07	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	103-65-1	
Styrene	<0.50	ug/L	0.50		1		02/15/22 13:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		02/15/22 13:07	127-18-4	
Toluene	<0.50	ug/L	0.50		1		02/15/22 13:07	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		02/15/22 13:07		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	79-00-5	
Trichloroethene	17.8	ug/L	0.50		1		02/15/22 13:07	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:07	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		02/15/22 13:07	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:07	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		02/15/22 13:07	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		02/15/22 13:07	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		02/15/22 13:07	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		02/15/22 13:07	2199-69-1	
4-Bromofluorobenzene (S)	110	%	70-130		1		02/15/22 13:07	460-00-4	

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

**Sample: WELL 4 N-09338**      **Lab ID: 70203071004**      Collected: 02/04/22 08:30      Received: 02/04/22 12:40      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>522 MSS 1,4 Dioxane (SIM)</b>									
Analytical Method: EPA 522    Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	1.7	ug/L	0.020		1	02/07/22 09:38	02/08/22 01:09	123-91-1	M1
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	103	%	70-130		1	02/07/22 09:38	02/08/22 01:09		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		02/15/22 13:33	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		02/15/22 13:33	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		02/15/22 13:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		02/15/22 13:33	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		02/15/22 13:33	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 13:33	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		02/15/22 13:33	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		02/15/22 13:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:33	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:33	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		02/15/22 13:33	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:33	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:33	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:33	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		02/15/22 13:33	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		02/15/22 13:33	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		02/15/22 13:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		02/15/22 13:33	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		02/15/22 13:33	75-09-2	

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### ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Sample: **WELL 4 N-09338** Lab ID: **70203071004** Collected: 02/04/22 08:30 Received: 02/04/22 12:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		02/15/22 13:33	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	103-65-1	
Styrene	<0.50	ug/L	0.50		1		02/15/22 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		02/15/22 13:33	127-18-4	
Toluene	<0.50	ug/L	0.50		1		02/15/22 13:33	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		02/15/22 13:33		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	79-00-5	
Trichloroethene	4.0	ug/L	0.50		1		02/15/22 13:33	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		02/15/22 13:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		02/15/22 13:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		02/15/22 13:33	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		02/15/22 13:33	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		02/15/22 13:33	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		02/15/22 13:33	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		02/15/22 13:33	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	114	%	70-130		1		02/15/22 13:33	2199-69-1	
4-Bromofluorobenzene (S)	118	%	70-130		1		02/15/22 13:33	460-00-4	

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4  
Pace Project No.: 70203071

QC Batch: 244305 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70203071001, 70203071002, 70203071003, 70203071004

METHOD BLANK: 1234559 Matrix: Water  
Associated Lab Samples: 70203071001, 70203071002, 70203071003, 70203071004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	02/15/22 06:50	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,1-Dichloroethene	ug/L	<0.50	0.50	02/15/22 06:50	
1,1-Dichloropropane	ug/L	<0.50	0.50	02/15/22 06:50	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	02/15/22 06:50	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,2-Dichloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
1,2-Dichloropropane	ug/L	<0.50	0.50	02/15/22 06:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
1,3-Dichloropropane	ug/L	<0.50	0.50	02/15/22 06:50	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
2,2-Dichloropropane	ug/L	<0.50	0.50	02/15/22 06:50	
2-Chlorotoluene	ug/L	<0.50	0.50	02/15/22 06:50	
4-Chlorotoluene	ug/L	<0.50	0.50	02/15/22 06:50	
Benzene	ug/L	<0.50	0.50	02/15/22 06:50	
Bromobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
Bromochloromethane	ug/L	<0.50	0.50	02/15/22 06:50	
Bromodichloromethane	ug/L	<0.50	0.50	02/15/22 06:50	
Bromoform	ug/L	<0.50	0.50	02/15/22 06:50	
Bromomethane	ug/L	<0.50	0.50	02/15/22 06:50	
Carbon tetrachloride	ug/L	<0.50	0.50	02/15/22 06:50	
Chlorobenzene	ug/L	<0.50	0.50	02/15/22 06:50	
Chlorodifluoromethane	ug/L	<0.50	0.50	02/15/22 06:50	N3
Chloroethane	ug/L	<0.50	0.50	02/15/22 06:50	
Chloroform	ug/L	<0.50	0.50	02/15/22 06:50	
Chloromethane	ug/L	<0.50	0.50	02/15/22 06:50	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	02/15/22 06:50	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	02/15/22 06:50	
Dibromochloromethane	ug/L	<0.50	0.50	02/15/22 06:50	
Dibromomethane	ug/L	<0.50	0.50	02/15/22 06:50	
Dichlorodifluoromethane	ug/L	<0.50	0.50	02/15/22 06:50	
Ethylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

METHOD BLANK: 1234559

Matrix: Water

Associated Lab Samples: 70203071001, 70203071002, 70203071003, 70203071004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	02/15/22 06:50	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	02/15/22 06:50	
m&p-Xylene	ug/L	<0.50	0.50	02/15/22 06:50	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	02/15/22 06:50	
Methylene Chloride	ug/L	<0.50	0.50	02/15/22 06:50	
n-Butylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
n-Propylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
o-Xylene	ug/L	<0.50	0.50	02/15/22 06:50	
p-Isopropyltoluene	ug/L	<0.50	0.50	02/15/22 06:50	
sec-Butylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
Styrene	ug/L	<0.50	0.50	02/15/22 06:50	
tert-Butylbenzene	ug/L	<0.50	0.50	02/15/22 06:50	
Tetrachloroethene	ug/L	<0.50	0.50	02/15/22 06:50	
Toluene	ug/L	<0.50	0.50	02/15/22 06:50	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	02/15/22 06:50	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	02/15/22 06:50	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	02/15/22 06:50	
Trichloroethene	ug/L	<0.50	0.50	02/15/22 06:50	
Trichlorofluoromethane	ug/L	<0.50	0.50	02/15/22 06:50	
Vinyl chloride	ug/L	<0.50	0.50	02/15/22 06:50	
1,2-Dichlorobenzene-d4 (S)	%	112	70-130	02/15/22 06:50	
4-Bromofluorobenzene (S)	%	114	70-130	02/15/22 06:50	

LABORATORY CONTROL SAMPLE: 1234560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.9	89	70-130	
1,1,1-Trichloroethane	ug/L	10	9.7	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.4	94	70-130	
1,1,2-Trichloroethane	ug/L	10	10.2	102	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	7.7	77	70-130	N3
1,1-Dichloroethane	ug/L	10	10.2	102	70-130	
1,1-Dichloroethene	ug/L	10	9.3	93	70-130	
1,1-Dichloropropene	ug/L	10	10.1	101	70-130	
1,2,3-Trichlorobenzene	ug/L	10	9.7	97	70-130	
1,2,3-Trichloropropane	ug/L	10	9.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	10	9.4	94	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.9	99	70-130	
1,2-Dichlorobenzene	ug/L	10	9.8	98	70-130	
1,2-Dichloroethane	ug/L	10	10.6	106	70-130	
1,2-Dichloropropane	ug/L	10	10.1	101	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.8	98	70-130	
1,3-Dichlorobenzene	ug/L	10	9.8	98	70-130	
1,3-Dichloropropane	ug/L	10	10.1	101	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4  
Pace Project No.: 70203071

LABORATORY CONTROL SAMPLE: 1234560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	10.3	103	70-130	
2,2-Dichloropropane	ug/L	10	10	100	70-130	
2-Chlorotoluene	ug/L	10	10	100	70-130	
4-Chlorotoluene	ug/L	10	10.6	106	70-130	
Benzene	ug/L	10	9.8	98	70-130	
Bromobenzene	ug/L	10	9.6	96	70-130	
Bromochloromethane	ug/L	10	9.1	91	70-130	
Bromodichloromethane	ug/L	10	9.8	98	70-130	
Bromoform	ug/L	10	8.8	88	70-130	
Bromomethane	ug/L	10	10.6	106	70-130	
Carbon tetrachloride	ug/L	10	9.6	96	70-130	
Chlorobenzene	ug/L	10	9.7	97	70-130	
Chlorodifluoromethane	ug/L	10	8.3	83	70-130	N3
Chloroethane	ug/L	10	11.2	112	70-130	
Chloroform	ug/L	10	10.2	102	70-130	
Chloromethane	ug/L	10	9.5	95	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.4	94	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.7	97	70-130	
Dibromochloromethane	ug/L	10	9.3	93	70-130	
Dibromomethane	ug/L	10	10	100	70-130	
Dichlorodifluoromethane	ug/L	10	9.0	90	70-130	
Ethylbenzene	ug/L	10	9.4	94	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.6	96	70-130	
Isopropylbenzene (Cumene)	ug/L	10	10.0	100	70-130	
m&p-Xylene	ug/L	20	17.4	87	70-130	
Methyl-tert-butyl ether	ug/L	10	10.0	100	70-130	
Methylene Chloride	ug/L	10	10.1	101	70-130	
n-Butylbenzene	ug/L	10	10.4	104	70-130	
n-Propylbenzene	ug/L	10	10.1	101	70-130	
o-Xylene	ug/L	10	9.2	92	70-130	
p-Isopropyltoluene	ug/L	10	9.8	98	70-130	
sec-Butylbenzene	ug/L	10	10.0	100	70-130	
Styrene	ug/L	10	9.7	97	70-130	
tert-Butylbenzene	ug/L	10	10	100	70-130	
Tetrachloroethene	ug/L	10	9.7	97	70-130	
Toluene	ug/L	10	9.6	96	70-130	
Total Trihalomethanes (Calc.)	ug/L		38.0			
trans-1,2-Dichloroethene	ug/L	10	9.4	94	70-130	
trans-1,3-Dichloropropene	ug/L	10	10	100	70-130	
Trichloroethene	ug/L	10	9.9	99	70-130	
Trichlorofluoromethane	ug/L	10	10.5	105	70-130	
Vinyl chloride	ug/L	10	9.8	98	70-130	
1,2-Dichlorobenzene-d4 (S)	%			118	70-130	
4-Bromofluorobenzene (S)	%			121	70-130	

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**QUALITY CONTROL DATA**

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

SAMPLE DUPLICATE: 1235807

Parameter	Units	70202978001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	<0.50	<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		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	<0.50		20	N3
1,1-Dichloroethane	ug/L	<0.50	<0.50		20	
1,1-Dichloroethene	ug/L	<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		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		20	
1,2-Dichloroethane	ug/L	<0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		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	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	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	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<0.50	<0.50		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	1.6	1.7	5	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	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

SAMPLE DUPLICATE: 1235807

Parameter	Units	70202978001 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	11.9	12.0	1	20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	<0.50		20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	1.4	1.3	3	20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	113	121		20	
4-Bromofluorobenzene (S)	%	116	115		20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

QC Batch: 243406

Analysis Method: EPA 522

QC Batch Method: EPA 522

Analysis Description: 522 MSS 1,4 Dioxane

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70203071001, 70203071003

METHOD BLANK: 1230031

Matrix: Drinking Water

Associated Lab Samples: 70203071001, 70203071003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	02/07/22 16:54	
1,4-Dioxane-d8 (S)	%	87	70-130	02/07/22 16:54	

LABORATORY CONTROL SAMPLE: 1230032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.5	87	70-130	
1,4-Dioxane-d8 (S)	%			87	70-130	

MATRIX SPIKE SAMPLE: 1230033

Parameter	Units	70202761005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.80	4	4.6	96	70-130	E
1,4-Dioxane-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1230034

Parameter	Units	70202761008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.2	1.1	2	30	
1,4-Dioxane-d8 (S)	%	94	95		30	

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### QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

QC Batch: 243433

Analysis Method: EPA 522

QC Batch Method: EPA 522

Analysis Description: 522 MSS 1,4 Dioxane

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70203071004

METHOD BLANK: 1230100

Matrix: Drinking Water

Associated Lab Samples: 70203071004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	02/08/22 00:33	
1,4-Dioxane-d8 (S)	%	110	70-130	02/08/22 00:33	

LABORATORY CONTROL SAMPLE: 1230101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	0.023	113	70-130	
1,4-Dioxane-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1230203

Parameter	Units	70203071004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.7	0.02	1.7	-99	70-130	M1
1,4-Dioxane-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1230204

Parameter	Units	70202985001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane-d8 (S)	%	83	106		30	

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## QUALIFIERS

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

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### 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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS FACILITY 2/4

Pace Project No.: 70203071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70203071001	GAC-3S/4S	EPA 522	243406	EPA 522	243412
70203071003	WELL 3A N-14347	EPA 522	243406	EPA 522	243412
70203071004	WELL 4 N-09338	EPA 522	243433	EPA 522	243495
70203071001	GAC-3S/4S	EPA 524.2	244305		
70203071002	GAC-3S/4S-D	EPA 524.2	244305		
70203071003	WELL 3A N-14347	EPA 524.2	244305		
70203071004	WELL 4 N-09338	EPA 524.2	244305		

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

WO#: 70203071



70203071

**Section A**

**Required Client Information:**  
 Company: KOMAN Government Solutions, LLC  
 Address: 180 Gordon Dr., Suite 110  
 Exton, PA  
 Email: RGregory@komanas.com  
 Phone: (610) 400-0535 Fax:  
 Requested Due Date:

**Section B**

**Required Project Information:**  
 Report To: Robert Gregory  
 Copy To: NCDOH  
 Purchase Order #: 02607-005  
 Project Name: NYAW-MERRICK OPS FACILITY  
 Project #: 02607-005

**Section C**

**Invoice Information:**  
 Attention: Accounts Payable  
 Company Name: KOMAN Government Solutions, LLC  
 Address: accounts payable@komanas.com  
 Pace Quote:  
 Pace Project Manager: Kimberley.Mack@Pacelabs.com  
 Pace Profile #:

Regulatory Agency  
 State / Location  
 NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) C Sample IDs must be unique	MATRIX CODE Drinking Water DW Water WTC Waste Water WW Product PI Semi-Solid SLD Oil OLC Wiper WPC Air AR Other OTC Tissue TS	CODE C	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB, C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	POC (VOCs by 524.2)		1,4-dioxane (522)
						DATE	TIME	DATE	TIME															
1	GAC-3S/4S (Seaman Neck GAC Effluent)	DW	G							4				X						X	X			
2	GAC-3S/4S (Seaman Neck GAC Effluent)-D	DW	G							2				X						X				
3	Well 3A N-14347 (Influent)	DW	G							4				X						X	X			
4	Well 4 N-09338 (Influent)	DW	G							4				X						X	X			
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Randy Hoffmaster	2.4.22	11:19	Woranne Saager	2.4.22	11:19	2.3	Y	N	Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Randy Hoffmaster  
 SIGNATURE of SAMPLER: *Randy Hoffmaster*  
 DATE Signed: 2.4.2022

TEMP In C  
 Received on (see) (Y/N)  
 Cooled (Y/N)  
 Sealed (Y/N)  
 Samples Intact (Y/N)

Client Name: Koman

Project: **WO#: 70203071**  
 PM: KMM Due Date: 02/15/22  
 CLIENT: KGS

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: \_\_\_\_\_ Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other  
 Thermometer Used: TH091 Correction Factor: 0.00

Cooler Temperature(°C): 2.3 Cooler Temperature Corrected(°C): 2.3

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

Temp should be above freezing to 6.0°C  
 USDA Regulated Soil (  N/A, water sample)  
 Date and Initials of person examining contents: 2.4.22 NTB  
 Did samples originate from a foreign source including Hawaii and Puerto Rico?  Yes  No

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

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

Client Notification/ Resolution: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_