

August 12, 2022

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

RE: Project: NYAW MERRICK OPS 8/1  
Pace Project No.: 70223988

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 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 8/1

Pace Project No.: 70223988

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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 8/1  
Pace Project No.: 70223988

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70223988001	GAC-3S/4S (SEAMAN NECK GAC E.)	Drinking Water	08/01/22 07:55	08/01/22 10:47
70223988002	GAC-3S/4S (SEAMAN NECK GAC E-D)	Drinking Water	08/01/22 08:05	08/01/22 10:47
70223988003	WELL 3A N-14347 (INFLUENT )	Drinking Water	08/01/22 07:40	08/01/22 10:47
70223988004	WELL 4 N-09338 (INFLUENT )	Drinking Water	08/01/22 07:15	08/01/22 10:47

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### SAMPLE ANALYTE COUNT

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70223988001	GAC-3S/4S (SEAMAN NECK GAC E.)	EPA 522	AI1	2
		EPA 524.2	KGG	62
70223988002	GAC-3S/4S (SEAMAN NECK GAC E-D	EPA 524.2	KGG	62
70223988003	WELL 3A N-14347 (INFLUENT )	EPA 522	AI1	2
		EPA 524.2	KGG	62
70223988004	WELL 4 N-09338 (INFLUENT )	EPA 522	AI1	2
		EPA 524.2	KGG	62

PACE-MV = Pace Analytical Services - Melville

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample:** GAC-3S/4S (SEAMAN NECK GAC E.)      **Lab ID:** 70223988001      Collected: 08/01/22 07:55      Received: 08/01/22 10:47      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)	1.9	ug/L	0.020		1	08/09/22 13:01	08/10/22 01:20	123-91-1	
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	97	%	70-130		1	08/09/22 13:01	08/10/22 01:20		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		5		08/05/22 08:54	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		08/05/22 08:54	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50	80	1		08/05/22 08:54	75-27-4	
Bromoform	<0.50	ug/L	0.50	80	1		08/05/22 08:54	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		08/05/22 08:54	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		5	1	08/05/22 08:54	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		100	1	08/05/22 08:54	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 08:54	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		08/05/22 08:54	75-00-3	
Chloroform	<0.50	ug/L	0.50	80	1		08/05/22 08:54	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		08/05/22 08:54	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 08:54	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 08:54	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	80	1		08/05/22 08:54	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		08/05/22 08:54	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		08/05/22 08:54	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		08/05/22 08:54	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 08:54	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		08/05/22 08:54	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 08:54	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		08/05/22 08:54	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		08/05/22 08:54	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		08/05/22 08:54	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		08/05/22 08:54	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 08:54	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 08:54	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 08:54	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 08:54	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 08:54	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		08/05/22 08:54	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		08/05/22 08:54	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		08/05/22 08:54	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		08/05/22 08:54	99-87-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample:** GAC-3S/4S (SEAMAN NECK GAC E.)      **Lab ID:** 70223988001      Collected: 08/01/22 07:55      Received: 08/01/22 10:47      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									
Methylene Chloride	<0.50	ug/L	0.50	5	1		08/05/22 08:54	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		08/05/22 08:54	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		08/05/22 08:54	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 08:54	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 08:54	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	5	1		08/05/22 08:54	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		08/05/22 08:54	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		08/05/22 08:54		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		08/05/22 08:54	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		08/05/22 08:54	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 08:54	79-00-5	
Trichloroethene	<0.50	ug/L	0.50	5	1		08/05/22 08:54	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		08/05/22 08:54	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		08/05/22 08:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		08/05/22 08:54	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 08:54	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		08/05/22 08:54	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		08/05/22 08:54	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		08/05/22 08:54	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		08/05/22 08:54	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		08/05/22 08:54	460-00-4	

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample:** GAC-3S/4S (SEAMAN NECK GAC E-D)      **Lab ID:** 70223988002      Collected: 08/01/22 08:05      Received: 08/01/22 10:47      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	5	1		08/05/22 09:21	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		08/05/22 09:21	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50	80	1		08/05/22 09:21	75-27-4	
Bromoform	<0.50	ug/L	0.50	80	1		08/05/22 09:21	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		08/05/22 09:21	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50	5	1		08/05/22 09:21	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50	100	1		08/05/22 09:21	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:21	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		08/05/22 09:21	75-00-3	
Chloroform	<0.50	ug/L	0.50	80	1		08/05/22 09:21	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		08/05/22 09:21	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 09:21	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 09:21	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	80	1		08/05/22 09:21	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		08/05/22 09:21	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		08/05/22 09:21	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		08/05/22 09:21	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:21	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		08/05/22 09:21	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 09:21	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		08/05/22 09:21	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		08/05/22 09:21	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		08/05/22 09:21	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		08/05/22 09:21	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:21	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:21	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:21	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:21	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:21	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		08/05/22 09:21	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		08/05/22 09:21	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		08/05/22 09:21	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		08/05/22 09:21	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50	5	1		08/05/22 09:21	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		08/05/22 09:21	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		08/05/22 09:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 09:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 09:21	79-34-5	

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## ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample:** GAC-3S/4S (SEAMAN NECK GAC E-D)      **Lab ID:** 70223988002      Collected: 08/01/22 08:05      Received: 08/01/22 10:47      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							
Tetrachloroethene	<0.50	ug/L	0.50	5	1		08/05/22 09:21	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		08/05/22 09:21	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		08/05/22 09:21		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		08/05/22 09:21	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		08/05/22 09:21	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 09:21	79-00-5	
Trichloroethene	<0.50	ug/L	0.50	5	1		08/05/22 09:21	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:21	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		08/05/22 09:21	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:21	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		08/05/22 09:21	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		08/05/22 09:21	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		08/05/22 09:21	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		08/05/22 09:21	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		08/05/22 09:21	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample: WELL 3A N-14347 (INFLUENT)**      **Lab ID: 70223988003**      Collected: 08/01/22 07:40      Received: 08/01/22 10:47      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)	2.0	ug/L	0.020		1	08/11/22 09:53	08/11/22 18:46	123-91-1	
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	90	%	70-130		1	08/11/22 09:53	08/11/22 18:46		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		5		08/05/22 09:48	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		08/05/22 09:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50	80	1		08/05/22 09:48	75-27-4	
Bromoform	<0.50	ug/L	0.50	80	1		08/05/22 09:48	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		08/05/22 09:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		5	1	08/05/22 09:48	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		100	1	08/05/22 09:48	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:48	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		08/05/22 09:48	75-00-3	
Chloroform	<0.50	ug/L	0.50	80	1		08/05/22 09:48	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		08/05/22 09:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 09:48	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 09:48	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	80	1		08/05/22 09:48	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		08/05/22 09:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		08/05/22 09:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		08/05/22 09:48	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:48	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		08/05/22 09:48	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 09:48	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		08/05/22 09:48	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		08/05/22 09:48	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		08/05/22 09:48	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		08/05/22 09:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:48	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:48	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:48	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 09:48	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		08/05/22 09:48	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		08/05/22 09:48	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		08/05/22 09:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		08/05/22 09:48	99-87-6	

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample: WELL 3A N-14347 (INFLUENT)**      **Lab ID: 70223988003**      Collected: 08/01/22 07:40      Received: 08/01/22 10:47      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									
Methylene Chloride	<0.50	ug/L	0.50	5	1		08/05/22 09:48	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		08/05/22 09:48	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		08/05/22 09:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 09:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 09:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	5	1		08/05/22 09:48	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		08/05/22 09:48	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		08/05/22 09:48		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		08/05/22 09:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		08/05/22 09:48	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 09:48	79-00-5	
Trichloroethene	11.7	ug/L	0.50	5	1		08/05/22 09:48	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		08/05/22 09:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		08/05/22 09:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		08/05/22 09:48	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 09:48	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		08/05/22 09:48	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		08/05/22 09:48	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		08/05/22 09:48	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		08/05/22 09:48	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		08/05/22 09:48	460-00-4	

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1  
Pace Project No.: 70223988

**Sample: WELL 4 N-09338 (INFLUENT)**      **Lab ID: 70223988004**      Collected: 08/01/22 07:15      Received: 08/01/22 10:47      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	08/11/22 09:53	08/11/22 19:36	123-91-1	
<b>Surrogates</b>									
1,4-Dioxane-d8 (S)	99	%	70-130		1	08/11/22 09:53	08/11/22 19:36		
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50	5	1		08/05/22 10:14	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		08/05/22 10:14	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50	80	1		08/05/22 10:14	75-27-4	
Bromoform	<0.50	ug/L	0.50	80	1		08/05/22 10:14	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		08/05/22 10:14	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50	5	1		08/05/22 10:14	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50	100	1		08/05/22 10:14	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 10:14	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		08/05/22 10:14	75-00-3	
Chloroform	<0.50	ug/L	0.50	80	1		08/05/22 10:14	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		08/05/22 10:14	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 10:14	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		08/05/22 10:14	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	80	1		08/05/22 10:14	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		08/05/22 10:14	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	600	1		08/05/22 10:14	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	75	1		08/05/22 10:14	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		08/05/22 10:14	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		08/05/22 10:14	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 10:14	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	7	1		08/05/22 10:14	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	70	1		08/05/22 10:14	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	100	1		08/05/22 10:14	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	5	1		08/05/22 10:14	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 10:14	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		08/05/22 10:14	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 10:14	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 10:14	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		08/05/22 10:14	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	700	1		08/05/22 10:14	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		08/05/22 10:14	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		08/05/22 10:14	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		08/05/22 10:14	99-87-6	

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### ANALYTICAL RESULTS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

**Sample: WELL 4 N-09338 (INFLUENT)**      **Lab ID: 70223988004**      Collected: 08/01/22 07:15      Received: 08/01/22 10:47      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									
Methylene Chloride	<0.50	ug/L	0.50	5	1		08/05/22 10:14	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		08/05/22 10:14	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	103-65-1	
Styrene	<0.50	ug/L	0.50	100	1		08/05/22 10:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 10:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		08/05/22 10:14	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	5	1		08/05/22 10:14	127-18-4	
Toluene	<0.50	ug/L	0.50	1000	1		08/05/22 10:14	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	80	1		08/05/22 10:14		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	70	1		08/05/22 10:14	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	200	1		08/05/22 10:14	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	5	1		08/05/22 10:14	79-00-5	
Trichloroethene	2.0	ug/L	0.50	5	1		08/05/22 10:14	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		08/05/22 10:14	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		08/05/22 10:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		08/05/22 10:14	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		08/05/22 10:14	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	2	1		08/05/22 10:14	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		08/05/22 10:14	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		08/05/22 10:14	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		08/05/22 10:14	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		08/05/22 10:14	460-00-4	

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1  
Pace Project No.: 70223988

QC Batch: 267986 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70223988001, 70223988002, 70223988003, 70223988004

METHOD BLANK: 1353904 Matrix: Water  
Associated Lab Samples: 70223988001, 70223988002, 70223988003, 70223988004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	08/05/22 07:06	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,1-Dichloroethene	ug/L	<0.50	0.50	08/05/22 07:06	
1,1-Dichloropropene	ug/L	<0.50	0.50	08/05/22 07:06	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	08/05/22 07:06	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,2-Dichloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
1,2-Dichloropropane	ug/L	<0.50	0.50	08/05/22 07:06	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
1,3-Dichloropropane	ug/L	<0.50	0.50	08/05/22 07:06	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
2,2-Dichloropropane	ug/L	<0.50	0.50	08/05/22 07:06	
2-Chlorotoluene	ug/L	<0.50	0.50	08/05/22 07:06	
4-Chlorotoluene	ug/L	<0.50	0.50	08/05/22 07:06	
Benzene	ug/L	<0.50	0.50	08/05/22 07:06	
Bromobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
Bromochloromethane	ug/L	<0.50	0.50	08/05/22 07:06	
Bromodichloromethane	ug/L	<0.50	0.50	08/05/22 07:06	
Bromoform	ug/L	<0.50	0.50	08/05/22 07:06	
Bromomethane	ug/L	<0.50	0.50	08/05/22 07:06	
Carbon tetrachloride	ug/L	<0.50	0.50	08/05/22 07:06	
Chlorobenzene	ug/L	<0.50	0.50	08/05/22 07:06	
Chlorodifluoromethane	ug/L	<0.50	0.50	08/05/22 07:06	N3
Chloroethane	ug/L	<0.50	0.50	08/05/22 07:06	
Chloroform	ug/L	<0.50	0.50	08/05/22 07:06	
Chloromethane	ug/L	<0.50	0.50	08/05/22 07:06	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	08/05/22 07:06	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	08/05/22 07:06	
Dibromochloromethane	ug/L	<0.50	0.50	08/05/22 07:06	
Dibromomethane	ug/L	<0.50	0.50	08/05/22 07:06	
Dichlorodifluoromethane	ug/L	<0.50	0.50	08/05/22 07:06	
Ethylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	

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.

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

METHOD BLANK: 1353904

Matrix: Water

Associated Lab Samples: 70223988001, 70223988002, 70223988003, 70223988004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	08/05/22 07:06	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	08/05/22 07:06	
m&p-Xylene	ug/L	<0.50	0.50	08/05/22 07:06	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	08/05/22 07:06	
Methylene Chloride	ug/L	<0.50	0.50	08/05/22 07:06	
n-Butylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
n-Propylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
o-Xylene	ug/L	<0.50	0.50	08/05/22 07:06	
p-Isopropyltoluene	ug/L	<0.50	0.50	08/05/22 07:06	
sec-Butylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
Styrene	ug/L	<0.50	0.50	08/05/22 07:06	
tert-Butylbenzene	ug/L	<0.50	0.50	08/05/22 07:06	
Tetrachloroethene	ug/L	<0.50	0.50	08/05/22 07:06	
Toluene	ug/L	<0.50	0.50	08/05/22 07:06	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	08/05/22 07:06	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	08/05/22 07:06	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	08/05/22 07:06	
Trichloroethene	ug/L	<0.50	0.50	08/05/22 07:06	
Trichlorofluoromethane	ug/L	<0.50	0.50	08/05/22 07:06	
Vinyl chloride	ug/L	<0.50	0.50	08/05/22 07:06	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	08/05/22 07:06	
4-Bromofluorobenzene (S)	%	97	70-130	08/05/22 07:06	

LABORATORY CONTROL SAMPLE: 1353905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.5	105	70-130	
1,1,1-Trichloroethane	ug/L	10	9.5	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	10	100	70-130	
1,1,2-Trichloroethane	ug/L	10	10.6	106	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.8	118	70-130	N3
1,1-Dichloroethane	ug/L	10	9.3	93	70-130	
1,1-Dichloroethene	ug/L	10	10.0	100	70-130	
1,1-Dichloropropene	ug/L	10	9.7	97	70-130	
1,2,3-Trichlorobenzene	ug/L	10	11.1	111	70-130	
1,2,3-Trichloropropane	ug/L	10	12.0	120	70-130	
1,2,4-Trichlorobenzene	ug/L	10	11.2	112	70-130	
1,2,4-Trimethylbenzene	ug/L	10	11.3	113	70-130	
1,2-Dichlorobenzene	ug/L	10	12.3	123	70-130	
1,2-Dichloroethane	ug/L	10	10.0	100	70-130	
1,2-Dichloropropane	ug/L	10	8.9	89	70-130	
1,3,5-Trimethylbenzene	ug/L	10	10.8	108	70-130	
1,3-Dichlorobenzene	ug/L	10	12.2	122	70-130	
1,3-Dichloropropane	ug/L	10	9.9	99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

LABORATORY CONTROL SAMPLE: 1353905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	11.7	117	70-130	
2,2-Dichloropropane	ug/L	10	9.4	94	70-130	
2-Chlorotoluene	ug/L	10	10.6	106	70-130	
4-Chlorotoluene	ug/L	10	10.9	109	70-130	
Benzene	ug/L	10	9.6	96	70-130	
Bromobenzene	ug/L	10	11.5	115	70-130	
Bromochloromethane	ug/L	10	11.9	119	70-130	
Bromodichloromethane	ug/L	10	9.1	91	70-130	
Bromoform	ug/L	10	9.8	98	70-130	
Bromomethane	ug/L	10	11.9	119	70-130	
Carbon tetrachloride	ug/L	10	9.7	97	70-130	
Chlorobenzene	ug/L	10	11.3	113	70-130	
Chlorodifluoromethane	ug/L	10	9.4	94	70-130	N3
Chloroethane	ug/L	10	10.8	108	70-130	
Chloroform	ug/L	10	9.6	96	70-130	
Chloromethane	ug/L	10	10.6	106	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.7	97	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.1	91	70-130	
Dibromochloromethane	ug/L	10	9.8	98	70-130	
Dibromomethane	ug/L	10	10.1	101	70-130	
Dichlorodifluoromethane	ug/L	10	11.2	112	70-130	
Ethylbenzene	ug/L	10	10.8	108	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.4	94	70-130	
Isopropylbenzene (Cumene)	ug/L	10	10.5	105	70-130	
m&p-Xylene	ug/L	20	22.0	110	70-130	
Methyl-tert-butyl ether	ug/L	10	7.8	78	70-130	
Methylene Chloride	ug/L	10	11.0	110	70-130	
n-Butylbenzene	ug/L	10	10.9	109	70-130	
n-Propylbenzene	ug/L	10	10.7	107	70-130	
o-Xylene	ug/L	10	10.8	108	70-130	
p-Isopropyltoluene	ug/L	10	11.0	110	70-130	
sec-Butylbenzene	ug/L	10	10.7	107	70-130	
Styrene	ug/L	10	10.3	103	70-130	
tert-Butylbenzene	ug/L	10	11.2	112	70-130	
Tetrachloroethene	ug/L	10	11.1	111	70-130	
Toluene	ug/L	10	9.8	98	70-130	
Total Trihalomethanes (Calc.)	ug/L		38.3			
trans-1,2-Dichloroethene	ug/L	10	9.7	97	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.1	91	70-130	
Trichloroethene	ug/L	10	10.2	102	70-130	
Trichlorofluoromethane	ug/L	10	12.4	124	70-130	
Vinyl chloride	ug/L	10	10.6	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

SAMPLE DUPLICATE: 1354946

Parameter	Units	70224013005 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	1.0		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	3.7	1.8	71	20	D6
1,1-Dichloroethene	ug/L	1.2	3.1	89	20	D6
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	0.97		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	1.9		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<0.50	0.59		20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	0.70	0.60	17	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	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

SAMPLE DUPLICATE: 1354946

Parameter	Units	70224013005 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	2.9	1.0	98	20	D6
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.59		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	2.7	13.9	136	20	D6
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	95	95		20	
4-Bromofluorobenzene (S)	%	94	93		20	

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1  
Pace Project No.: 70223988

QC Batch: 268466 Analysis Method: EPA 522  
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70223988001

METHOD BLANK: 1356324 Matrix: Drinking Water  
Associated Lab Samples: 70223988001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/09/22 18:16	
1,4-Dioxane-d8 (S)	%	75	70-130	08/09/22 18:16	

LABORATORY CONTROL SAMPLE: 1356325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	88	70-130	
1,4-Dioxane-d8 (S)	%			72	70-130	

MATRIX SPIKE SAMPLE: 1356326

Parameter	Units	70223728002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.021	0.02	0.046	127	70-130	
1,4-Dioxane-d8 (S)	%				104	70-130	

SAMPLE DUPLICATE: 1356327

Parameter	Units	70223782001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		30	
1,4-Dioxane-d8 (S)	%	95	94		30	

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### QUALITY CONTROL DATA

Project: NYAW MERRICK OPS 8/1  
Pace Project No.: 70223988

QC Batch: 268738 Analysis Method: EPA 522  
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70223988003, 70223988004

METHOD BLANK: 1357789 Matrix: Drinking Water  
Associated Lab Samples: 70223988003, 70223988004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/11/22 13:11	
1,4-Dioxane-d8 (S)	%	84	70-130	08/11/22 13:11	

LABORATORY CONTROL SAMPLE: 1357790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	87	70-130	
1,4-Dioxane-d8 (S)	%			85	70-130	

MATRIX SPIKE SAMPLE: 1357791

Parameter	Units	70223988003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2.0	2	4.0	104	70-130	E
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1357792

Parameter	Units	70223988004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.7	1.7	2	30	
1,4-Dioxane-d8 (S)	%	99	103		30	

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## QUALIFIERS

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

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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.

### SAMPLE QUALIFIERS

Sample: 1356326

[1] Method 522: MS Accepted based on low level criteria of 50-150%.

### ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW MERRICK OPS 8/1

Pace Project No.: 70223988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70223988001	GAC-3S/4S (SEAMAN NECK GAC E.)	EPA 522	268466	EPA 522	268543
70223988003	WELL 3A N-14347 (INFLUENT )	EPA 522	268738	EPA 522	268897
70223988004	WELL 4 N-09338 (INFLUENT )	EPA 522	268738	EPA 522	268897
70223988001	GAC-3S/4S (SEAMAN NECK GAC E.)	EPA 524.2	267986		
70223988002	GAC-3S/4S (SEAMAN NECK GAC E-D	EPA 524.2	267986		
70223988003	WELL 3A N-14347 (INFLUENT )	EPA 524.2	267986		
70223988004	WELL 4 N-09338 (INFLUENT )	EPA 524.2	267986		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

**WO# : 70223988**



70223988

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: KOMAN Government Solutions, LLC	Address: 180 Gordon Dr., Suite 110 Exton, PA	Report To: Robert Gregory	Copy To: NCDCH	Attention: Accounts Payable	Company Name: KOMAN Government Solutions, LLC
Email: <a href="mailto:RGregory@komang.com">RGregory@komang.com</a>	Phone: (610) 400-0636 Fax:	Purchase Order #: 02607-005	Project Name: NYAW-MERRICK OPS FACILITY	Address: <a href="mailto:accountspayable@komang.com">accountspayable@komang.com</a>	Pace Quote:
Requested Due Date:		Project #: 02607-005		Pace Project Manager: <a href="mailto:Kimberley.Mack@Pacelabs.com">Kimberley.Mack@Pacelabs.com</a>	Pace Profile #:
					State / Location: NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	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																
				DATE	TIME	DATE	TIME													POC (VOCs by 524.2)															
1	GAC-3S/4S (Seaman Neck GAC Effluent)	DW	G			8/1/22	7:55	4					X	X				X	X																
2	GAC-3S/4S (Seaman Neck GAC Effluent)-D	DW	G			8/1/22	8:05	2					X					X																	
3	Well 3A N-14347 (Influent)	DW	G			8/1/22	7:40	4					X	X				X	X																
4	Well 4 N-09338 (Influent)	DW	G			8/1/22	7:15	4					X	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			
	<i>Randy Hoffmaster</i>	8/1/22		<i>[Signature]</i>	8/1/22	10:47	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice <input type="checkbox"/> (Y/N)	Custody Sealed <input type="checkbox"/> (Y/N)	Cooler <input type="checkbox"/> (Y/N)	Samples Intact <input type="checkbox"/> (Y/N)
PRINT Name of SAMPLER: Randy Hoffmaster						
SIGNATURE of SAMPLER: <i>Randy Hoffmaster</i>	DATE Signed: 8/1/2022					

Client: KGS

Profile #: 54576

Use Point Number Spreadsheet

Add SCLOGFD to first sample for Field Charge.

Work ID: NYAW Merrick OPS 8/1

Notes: \_\_\_\_\_

COC Link Ref	Matrix	VG2U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WG7U	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC				
1			2																	2																																			
2			2																	2																																			
3			2																	2																																			
4			2																	2																																			

Container Codes

Glass		Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
		AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate
WG9O	Boz clear soil jar			BP3R	250mL NH4SO4-NH4OH
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

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

\* 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 vial	2
DG9A	40mL Ascorbic acid vials	2
DG9Y	Citrate/Na Thiosulfate 40mL	2
DG6T	Na Thiosulfate 60mL vial	1
AG3U	250mL unpres amber glass	
AG3T	Na Thiosulfate 250mL bottle	
BP1B	Na Thiosulfate Amber bottle	
AG1T	Na Thiosulfate 1L Amber	2
AG1A	(NH4Cl)	2

Additional Comments

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Sample Condition Upon Receipt

**WO#: 70223988**

Client Name: Koman Gov't Solutions

Project

PM: KMM

Due Date: 08/10/22

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~~ TH148 Correction Factor: + 0.1

Cooler Temperature(°C): 2.8 Cooler Temperature Corrected(°C): 2.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil (  N/A, water sample)

Date and Initials of person examining contents: AM 8/1/22 1047

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

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

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

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: