Pelton, Jason M (DEC)

From: Stan Carey <scarey@massapequawater.com>
Sent: Wednesday, December 27, 2017 11:40 AM
To: Pelton, Jason M (DEC); Gomez, Karen (DEC)
Cc: Brand, Martin (DEC)
Subject: FW: TCE/PCE/ 1,4 DIOXANE 12/7 (Pace Project # 7037601)
Attachments: 7037601_frc.pdf; 7037601_NY.pdf; _Certification_.htm

Jason,
Attached are the results for split samples MWD collected a couple weeks ago on monitoring well TT102 (just south of the Southern State Parkway). There is a small hit of 1, 4 Dioxane .23 ppb. We understand this is a small number but MWD has always been concerned with the Navy not installing recovery wells far enough south. We also understand that the 1,4 can travel faster than the other plume contaminates.

Thank you,

Stan Carey, Superintendent
Massapequa Water District

From: Paceport Email Notification [mailto:stu.murrell@pacelabs.com]
Sent: Friday, December 15, 2017 8:06 PM
To: stu.murrell@pacelabs.com; scarey@massapequawater.com; jtodaro@h2m.com; jspeciale@massapequawater.com
Subject: TCE/PCE/ 1,4 DIOXANE 12/7 (Pace Project # 7037601)

Paceport Login

Pace Automated Email Notification

This email contains EDDs and Reports generated by Paceport's automated deliverable service. The attached files have been authorized to be sent to you due to the completion of project 7037601. Your Pace project manager has been CC'ed on this email so that you may request any further assistance.

To access this project's page in paceport click on the following link.
http://paceport.pacelabs.com/ClientPortal/mvc/projectDetails/modelAndView?projectID=7037601&systemID=lims70

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

December 15, 2017

Stan Carey
Massapequa Water District
84 Grand Ave.
Massapequa, NY 11758

RE: Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Dear Stan Carey:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Stu Murrell
stu.murrell@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: John Speciale, Massapequa Water District
Joe Todaro, H2M Group

Pace Analytical Services, LLC
575 Broad Hollow Road
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CERTIFICATIONS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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SAMPLE SUMMARY

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7037601001	**TT102D2 ALKEN AVE**	Drinking Water	12/07/17 13:15	12/07/17 14:30
7037601002	**TT102D1 ALKEN AVE**	Drinking Water	12/07/17 13:25	12/07/17 14:30

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7037601001	**TT102D2 ALKEN AVE**	EPA 522	MLM	2
		EPA 524.2	KGG	60
7037601002	**TT102D1 ALKEN AVE**	EPA 522	MLM	2
		EPA 524.2	KGG	60

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Sample: TT102D2 ALKEN AVE **Lab ID: 7037601001** Collected: 12/07/17 13:15 Received: 12/07/17 14:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
1,4-Dioxane (p-Dioxane)	**<0.070**	ug/L	0.070		1	12/08/17 16:42	12/14/17 16:34	123-91-1	M1
Surrogates									
1,4-Dioxane-d8 (S)	75	%	70-130		1	12/08/17 16:42	12/14/17 16:34		
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		12/11/17 14:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	108-90-7	
Chloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		12/11/17 14:20	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-71-8	L1
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		12/11/17 14:20	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		12/11/17 14:20	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Sample: TT102D2 ALKEN AVE **Lab ID: 7037601001** Collected: 12/07/17 13:15 Received: 12/07/17 14:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		12/11/17 14:20		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		12/11/17 14:20	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		12/11/17 14:20	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		12/11/17 14:20	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		12/11/17 14:20	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Sample: TT102D1 ALKEN AVE **Lab ID: 7037601002** Collected: 12/07/17 13:25 Received: 12/07/17 14:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
1,4-Dioxane (p-Dioxane)	**0.23**	ug/L	0.070		1	12/08/17 16:42	12/14/17 17:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	74	%	70-130		1	12/08/17 16:42	12/14/17 17:24		
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		12/11/17 14:47	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	108-90-7	
Chloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		12/11/17 14:47	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-71-8	L1
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		12/11/17 14:47	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		12/11/17 14:47	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Sample: TT102D1 ALKEN AVE **Lab ID: 7037601002** Collected: 12/07/17 13:25 Received: 12/07/17 14:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		12/11/17 14:47		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		12/11/17 14:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		12/11/17 14:47	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		12/11/17 14:47	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		12/11/17 14:47	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		12/11/17 14:47	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

QC Batch: 49225 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 7037601001, 7037601002

METHOD BLANK: 229065 Matrix: Water
Associated Lab Samples: 7037601001, 7037601002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,1-Dichloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,1-Dichloroethene	ug/L	<0.50	0.50	12/11/17 08:32	
1,1-Dichloropropene	ug/L	<0.50	0.50	12/11/17 08:32	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	12/11/17 08:32	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,2-Dichloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
1,2-Dichloropropane	ug/L	<0.50	0.50	12/11/17 08:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
1,3-Dichloropropane	ug/L	<0.50	0.50	12/11/17 08:32	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
2,2-Dichloropropane	ug/L	<0.50	0.50	12/11/17 08:32	
2-Chlorotoluene	ug/L	<0.50	0.50	12/11/17 08:32	
4-Chlorotoluene	ug/L	<0.50	0.50	12/11/17 08:32	
Benzene	ug/L	<0.50	0.50	12/11/17 08:32	
Bromobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
Bromochloromethane	ug/L	<0.50	0.50	12/11/17 08:32	
Bromodichloromethane	ug/L	<0.50	0.50	12/11/17 08:32	
Bromoform	ug/L	<0.50	0.50	12/11/17 08:32	
Bromomethane	ug/L	<0.50	0.50	12/11/17 08:32	
Carbon tetrachloride	ug/L	<0.50	0.50	12/11/17 08:32	
Chlorobenzene	ug/L	<0.50	0.50	12/11/17 08:32	
Chloroethane	ug/L	<0.50	0.50	12/11/17 08:32	
Chloroform	ug/L	<0.50	0.50	12/11/17 08:32	
Chloromethane	ug/L	<0.50	0.50	12/11/17 08:32	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	12/11/17 08:32	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	12/11/17 08:32	
Dibromochloromethane	ug/L	<0.50	0.50	12/11/17 08:32	
Dibromomethane	ug/L	<0.50	0.50	12/11/17 08:32	
Dichlorodifluoromethane	ug/L	<0.50	0.50	12/11/17 08:32	
Ethylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	12/11/17 08:32	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	12/11/17 08:32	
m&p-Xylene	ug/L	<0.50	0.50	12/11/17 08:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

METHOD BLANK: 229065 Matrix: Water
Associated Lab Samples: 7037601001, 7037601002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	<0.50	0.50	12/11/17 08:32	
Methylene Chloride	ug/L	<0.50	0.50	12/11/17 08:32	
n-Butylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
n-Propylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
o-Xylene	ug/L	<0.50	0.50	12/11/17 08:32	
p-Isopropyltoluene	ug/L	<0.50	0.50	12/11/17 08:32	
sec-Butylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
Styrene	ug/L	<0.50	0.50	12/11/17 08:32	
tert-Butylbenzene	ug/L	<0.50	0.50	12/11/17 08:32	
Tetrachloroethene	ug/L	<0.50	0.50	12/11/17 08:32	
Toluene	ug/L	<0.50	0.50	12/11/17 08:32	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	12/11/17 08:32	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	12/11/17 08:32	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	12/11/17 08:32	
Trichloroethene	ug/L	<0.50	0.50	12/11/17 08:32	
Trichlorofluoromethane	ug/L	<0.50	0.50	12/11/17 08:32	
Vinyl chloride	ug/L	<0.50	0.50	12/11/17 08:32	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130	12/11/17 08:32	
4-Bromofluorobenzene (S)	%	91	70-130	12/11/17 08:32	

LABORATORY CONTROL SAMPLE: 229066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.3	83	70-130	
1,1,1-Trichloroethane	ug/L	10	8.6	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,2-Trichloroethane	ug/L	10	9.1	91	70-130	
1,1-Dichloroethane	ug/L	10	9.5	95	70-130	
1,1-Dichloroethene	ug/L	10	10.0	100	70-130	
1,1-Dichloropropene	ug/L	10	9.8	98	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10.5	105	70-130	
1,2,3-Trichloropropane	ug/L	10	8.1	81	70-130	
1,2,4-Trichlorobenzene	ug/L	10	10.4	104	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.6	96	70-130	
1,2-Dichlorobenzene	ug/L	10	9.2	92	70-130	
1,2-Dichloroethane	ug/L	10	8.2	82	70-130	
1,2-Dichloropropane	ug/L	10	9.3	93	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.2	92	70-130	
1,3-Dichlorobenzene	ug/L	10	9.2	92	70-130	
1,3-Dichloropropane	ug/L	10	9.1	91	70-130	
1,4-Dichlorobenzene	ug/L	10	9.0	90	70-130	
2,2-Dichloropropane	ug/L	10	9.3	93	70-130	
2-Chlorotoluene	ug/L	10	9.4	94	70-130	
4-Chlorotoluene	ug/L	10	9.5	95	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

LABORATORY CONTROL SAMPLE: 229066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	10	10.2	102	70-130	
Bromobenzene	ug/L	10	9.2	92	70-130	
Bromochloromethane	ug/L	10	8.8	88	70-130	
Bromodichloromethane	ug/L	10	8.6	86	70-130	
Bromoform	ug/L	10	7.5	75	70-130	
Bromomethane	ug/L	10	8.8	88	70-130	
Carbon tetrachloride	ug/L	10	8.5	85	70-130	
Chlorobenzene	ug/L	10	9.6	96	70-130	
Chloroethane	ug/L	10	9.2	92	70-130	
Chloroform	ug/L	10	9.1	91	70-130	
Chloromethane	ug/L	10	10.9	109	70-130	
cis-1,2-Dichloroethene	ug/L	10	10.4	104	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.1	91	70-130	
Dibromochloromethane	ug/L	10	8.1	81	70-130	
Dibromomethane	ug/L	10	9.3	93	70-130	
Dichlorodifluoromethane	ug/L	10	13.1	131	70-130	L1
Ethylbenzene	ug/L	10	9.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	10	11.4	114	70-130	CH
Isopropylbenzene (Cumene)	ug/L	10	9.5	95	70-130	
m&p-Xylene	ug/L	20	19.0	95	70-130	
Methyl-tert-butyl ether	ug/L	10	11.8	118	70-130	
Methylene Chloride	ug/L	10	9.8	98	70-130	
n-Butylbenzene	ug/L	10	9.5	95	70-130	
n-Propylbenzene	ug/L	10	9.6	96	70-130	
o-Xylene	ug/L	10	9.4	94	70-130	
p-Isopropyltoluene	ug/L	10	9.1	91	70-130	
sec-Butylbenzene	ug/L	10	9.5	95	70-130	
Styrene	ug/L	10	9.9	99	70-130	
tert-Butylbenzene	ug/L	10	9.2	92	70-130	
Tetrachloroethene	ug/L	10	9.3	93	70-130	
Toluene	ug/L	10	10	100	70-130	
Total Trihalomethanes (Calc.)	ug/L		33.4			
trans-1,2-Dichloroethene	ug/L	10	10.3	103	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.0	90	70-130	
Trichloroethene	ug/L	10	10.3	103	70-130	
Trichlorofluoromethane	ug/L	10	9.5	95	70-130	
Vinyl chloride	ug/L	10	10.7	107	70-130	IH
1,2-Dichlorobenzene-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

SAMPLE DUPLICATE: 229749

Parameter	Units	7037573001 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	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

SAMPLE DUPLICATE: 229749

Parameter	Units	7037573001 Result	Dup Result	RPD	Max RPD	Qualifiers
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-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	
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	0.67	0.65	2	20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromochloromethane	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	
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	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

SAMPLE DUPLICATE: 229749

Parameter	Units	7037573001 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	0.67	0.65	2	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	<0.50	<0.50		20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	93	91	2	20	
4-Bromofluorobenzene (S)	%	91	87	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

QC Batch: 49139 Analysis Method: EPA 522
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane
Associated Lab Samples: 7037601001, 7037601002

METHOD BLANK: 228594 Matrix: Drinking Water
Associated Lab Samples: 7037601001, 7037601002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.070	0.070	12/14/17 15:19	
1,4-Dioxane-d8 (S)	%	71	70-130	12/14/17 15:19	

LABORATORY CONTROL SAMPLE: 228596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.5	74	70-130	
1,4-Dioxane-d8 (S)	%			76	70-130	

MATRIX SPIKE SAMPLE: 228597

Parameter	Units	7037601001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.070	.05	<0.070	53	70-130	M1
1,4-Dioxane-d8 (S)	%				71	70-130	

MATRIX SPIKE SAMPLE: 228598

Parameter	Units	7037588001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.097	.05	0.14	79	70-130	
1,4-Dioxane-d8 (S)	%				77	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

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.

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCE/PCE/ 1,4 DIOXANE 12/7
Pace Project No.: 7037601

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7037601001	**TT102D2 ALKEN AVE**	EPA 522	49139	EPA 522	49165
7037601002	**TT102D1 ALKEN AVE**	EPA 522	49139	EPA 522	49165
7037601001	**TT102D2 ALKEN AVE**	EPA 524.2	49225		
7037601002	**TT102D1 ALKEN AVE**	EPA 524.2	49225		

WO#: 7037601

7037601

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 12/7/17

Collected By: R. Grimes

Accepted By: 14:30

Cooler Temp: 1.5 °C Wet

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

☑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Massapequa Water Dist.

Address: 84 Grand Ave
Massapequa NY 11758

Phone #: 516 798-5266

Attn: Stan

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
12/7/17									
13.15	GW	TT102D2 Aiken Ave	MW	/	S	—	—	TCE, PCE 1,4 Dioxane	001
13.25	GW	TT102D1 Aiken Ave	MW	/	S	—	—	TCE, PCE 1,4 Dioxane	002

Remarks:

Pace Analytical

Sample Condition Upon Receipt

WO#: 7037601
PM: SWM Due Date: 12/18/17
CLIENT: MASS

Client Name: MASS

Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

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

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

Thermometer Used: TH092 Correction Factor: +0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.5 Cooler Temperature Corrected (°C): 1.5 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: JK 12/7/17

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 orignate from a foreign source (internationally, 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:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

F-LI-C-002-rev.01

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Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Massapequa Water District
84 Grand Ave.
Massapequa, NY 11758
Attn To : Stan Carey
Federal ID : 2902837
Collected : 12/07/2017 01:15 PM Point No:
Received : 12/07/2017 02:30 PM Location:
Collected By : CLIENT

Lab No. : 7037601001
Client Sample ID.: TT102D2 ALKEN AVE

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 12/08/2017 4:42 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.070	M1	1	ug/L		12/14/2017 4:34 PM	001 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	75%		1	%REC		12/14/2017 4:34 PM	001 AG2R1/1

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
2-Chlorotoluene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
4-Chlorotoluene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Benzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Bromobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Bromochloromethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Bromodichloromethane	<0.50		1	ug/L		12/11/2017 2:20 PM	001 VG9U1/2
Bromoform	<0.50		1	ug/L		12/11/2017 2:20 PM	001 VG9U1/2
Bromomethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Carbon tetrachloride	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Chlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Chloroethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Chloroform	<0.50		1	ug/L		12/11/2017 2:20 PM	001 VG9U1/2
Chloromethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Dibromochloromethane	<0.50		1	ug/L		12/11/2017 2:20 PM	001 VG9U1/2
Dibromomethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2

Qualifiers:
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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
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84 Grand Ave.
Massapequa, NY 11758
Attn To : Stan Carey
Federal ID : 2902837
Collected : 12/07/2017 01:15 PM Point No:
Received : 12/07/2017 02:30 PM Location:
Collected By : CLIENT

Lab No. : 7037601001
Client Sample ID.: TT102D2 ALKEN AVE

Dichlorodifluoromethane	<0.50	L1	1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Ethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	12/11/2017 2:20 PM	001 VG9U1/2
Methylene Chloride	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Styrene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Tetrachloroethene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Toluene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	12/11/2017 2:20 PM	001 VG9U1/2
Trichloroethene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Vinyl chloride	<0.50		1	ug/L	2	12/11/2017 2:20 PM	001 VG9U1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
m&p-Xylene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
n-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
n-Propylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
o-Xylene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
sec-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
tert-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:20 PM	001 VG9U1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	91%		1	%REC		12/11/2017 2:20 PM	001 VG9U1/2
Surr: 4-Bromofluorobenzene (S)	89%		1	%REC		12/11/2017 2:20 PM	001 VG9U1/2

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Type: Drinking Water
Origin: Raw Well
Special

Massapequa Water District
84 Grand Ave.
Massapequa, NY 11758
Attn To : Stan Carey
Federal ID : 2902837
Collected : 12/07/2017 01:25 PM Point No:
Received : 12/07/2017 02:30 PM Location:
Collected By : CLIENT

Lab No. : 7037601002
Client Sample ID.: TT102D1 ALKEN AVE

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 12/08/2017 4:42 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.23		1	ug/L		12/14/2017 5:24 PM	002 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	74%		1	%REC		12/14/2017 5:24 PM	002 AG2R1/1

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
2-Chlorotoluene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
4-Chlorotoluene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Benzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Bromobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Bromochloromethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Bromodichloromethane	<0.50		1	ug/L		12/11/2017 2:47 PM	002 VG9U1/2
Bromoform	<0.50		1	ug/L		12/11/2017 2:47 PM	002 VG9U1/2
Bromomethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Carbon tetrachloride	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Chlorobenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Chloroethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Chloroform	<0.50		1	ug/L		12/11/2017 2:47 PM	002 VG9U1/2
Chloromethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Dibromochloromethane	<0.50		1	ug/L		12/11/2017 2:47 PM	002 VG9U1/2
Dibromomethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2

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Received : 12/07/2017 02:30 PM Location:
Collected By : CLIENT

Lab No. : 7037601002
Client Sample ID.: TT102D1 ALKEN AVE

Dichlorodifluoromethane	<0.50	L1	1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Ethylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	12/11/2017 2:47 PM	002 VG9U1/2
Methylene Chloride	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Styrene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Tetrachloroethene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Toluene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	12/11/2017 2:47 PM	002 VG9U1/2
Trichloroethene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Vinyl chloride	<0.50		1	ug/L	2	12/11/2017 2:47 PM	002 VG9U1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
m&p-Xylene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
n-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
n-Propylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
o-Xylene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
sec-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
tert-Butylbenzene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	12/11/2017 2:47 PM	002 VG9U1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	90%		1	%REC		12/11/2017 2:47 PM	002 VG9U1/2
Surr: 4-Bromofluorobenzene (S)	88%		1	%REC		12/11/2017 2:47 PM	002 VG9U1/2

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WorkOrder :
7037601

Laboratory Certifications

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Qualifiers

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

WO#: 7037601

7037601

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 12/7/17

Collected By: R. Grimes

Accepted By: 14:30

Cooler Temp: 1.5 °C Wet

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

☑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Massapequa Water Dist.

Address: 84 Grand Ave

Massapequa NY 11758

Phone #: 516 798-5266

Attn: Stan

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
12/7/17									
13.15	GW	TT102 D2 Aiken Ave	MW	/	S	—	—	TCE, PCE 1,4 Dioxane	001
13.25	GW	TT102 D1 Aiken Ave	MW	/	S	—	—	TCE, PCE 1,4 Dioxane	002

Remarks:

Pace Analytical

Sample Condition Upon Receipt

WO#: 7037601
PM: SWM Due Date: 12/18/17
CLIENT: MASS

Client Name: MASS

Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH092 Correction Factor: +0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.5 Cooler Temperature Corrected (°C): 1.5 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: JK 12/7/17

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 orignate from a foreign source (internationally, 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:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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