

March 18, 2019

Rob King
Hampton Bays Water District
P.O. Box 1013
Hampton Bays, NY 11946

RE: Project: DIST IOC 3/6
Pace Project No.: 7081475

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2019. 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: Warren Booth, Hampton Bays Water District
John Collins, H2M Group
Stella Michaels, Hampton Bays Water District
Paul Ponturo, H2M Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DIST IOC 3/6

Pace Project No.: 7081475

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DIST IOC 3/6

Pace Project No.: 7081475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7081475001	HB3	Drinking Water	03/06/19 08:45	03/06/19 16:15
7081475002	HB8	Drinking Water	03/06/19 10:15	03/06/19 16:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: DIST IOC 3/6

Pace Project No.: 7081475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7081475001	HB3	EPA 200.7	JMW	5
		EPA 200.8	SK2	12
		SM22 2120B	BP1	2
		SM22 2150B	BP1	1
		SM22 2510B	ML	1
		SM22 5540C	BP1	2
		EPA 300.0	BNK	2
		EPA 353.2	SDO	2
		EPA 353.2	SDO	1
		SM22 4500-CN-E	JM3	1
		SM22 4500-CI-E	BNK	1
		SM22 4500 NH3 H	BNK	1
7081475002	HB8	EPA 200.7	JMW	5
		EPA 200.8	SK2	12
		SM22 2120B	BP1	2
		SM22 2150B	BP1	1
		SM22 2510B	ML	1
		SM22 5540C	BP1	2
		EPA 300.0	BNK	2
		EPA 353.2	SDO	2
		EPA 353.2	SDO	1
		SM22 4500-CN-E	JM3	1
		SM22 4500-CI-E	BNK	1
		SM22 4500 NH3 H	BNK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DIST IOC 3/6
Pace Project No.: 7081475

Sample: HB3			Lab ID: 7081475001		Collected: 03/06/19 08:45		Received: 03/06/19 16:15		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Chlorine and pH		Analytical Method:								
Field Temperature	12.36	deg C			1		03/06/19 08:45		N3	
Field pH	7.40	Std. Units			1		03/06/19 08:45		N3	
200.7 MET ICP, Drinking Water		Analytical Method: EPA 200.7								
Ca Hardness as CaCO3 (SM 2340B	32.0	mg/L	0.50		1		03/07/19 17:42			
Iron	0.055	mg/L	0.020		1		03/07/19 17:42	7439-89-6		
Manganese	<0.010	mg/L	0.010		1		03/07/19 17:42	7439-96-5		
Sodium	28.8	mg/L	0.20		1		03/07/19 17:42	7440-23-5		
Zinc	<0.020	mg/L	0.020		1		03/07/19 17:42	7440-66-6		
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8								
Antimony	<0.40	ug/L	0.40		1		03/07/19 11:56	7440-36-0		
Arsenic	<1.0	ug/L	1.0		1		03/07/19 11:56	7440-38-2		
Barium	0.035	mg/L	0.0020		1		03/07/19 11:56	7440-39-3		
Beryllium	<0.30	ug/L	0.30		1		03/07/19 11:56	7440-41-7		
Cadmium	<1.0	ug/L	1.0		1		03/07/19 11:56	7440-43-9		
Chromium	<0.0070	mg/L	0.0070		1		03/07/19 11:56	7440-47-3		
Lead	<1.0	ug/L	1.0		1		03/07/19 11:56	7439-92-1		
Mercury	<0.20	ug/L	0.20		1		03/07/19 11:56	7439-97-6		
Nickel	<0.00050	mg/L	0.00050		1		03/07/19 11:56	7440-02-0		
Selenium	<2.0	ug/L	2.0		1		03/07/19 11:56	7782-49-2		
Silver	<0.0010	mg/L	0.0010		1		03/07/19 11:56	7440-22-4		
Thallium	<0.30	ug/L	0.30		1		03/07/19 11:56	7440-28-0		
2120B W Apparent Color		Analytical Method: SM22 2120B								
Apparent Color	<5.0	units	5.0		1		03/07/19 00:04			
pH	7.0	Std. Units	0.10		1		03/07/19 00:04			
2150B Threshold Odor Number		Analytical Method: SM22 2150B								
Odor @ 60 Degrees C	No odor observed		1.0		1		03/07/19 00:13			
2510B Specific Conductance		Analytical Method: SM22 2510B								
Specific Conductance	259	umhos/cm	1.0		1		03/09/19 07:49			
5540C MBAS Surfactants		Analytical Method: SM22 5540C Preparation Method: SM22 5540C								
LAS Molecular Weight, g/mol	320				1	03/06/19 23:34	03/06/19 23:39			
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	03/06/19 23:34	03/06/19 23:39		M1	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	<0.10	mg/L	0.10		1		03/16/19 05:53	16984-48-8		
Sulfate	13.1	mg/L	5.0		1		03/16/19 05:53	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DIST IOC 3/6

Pace Project No.: 7081475

Sample: HB3		Lab ID: 7081475001		Collected: 03/06/19 08:45		Received: 03/06/19 16:15		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrate as N	2.4	mg/L	0.50		10		03/06/19 21:26	14797-55-8	
Nitrate-Nitrite (as N)	2.4	mg/L	0.50		10		03/06/19 21:26	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2							
Nitrite as N	<0.050	mg/L	0.050		1		03/06/19 19:07	14797-65-0	
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	<10.0	ug/L	10.0		1	03/15/19 07:27	03/15/19 13:15	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E							
Chloride	40.3	mg/L	2.0		1		03/08/19 12:58	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		03/12/19 16:22	7664-41-7	

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ANALYTICAL RESULTS

Project: DIST IOC 3/6
Pace Project No.: 7081475

Sample: HB8		Lab ID: 7081475002		Collected: 03/06/19 10:15		Received: 03/06/19 16:15		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Chlorine and pH		Analytical Method:							
Field Temperature	6.7	deg C			1		03/06/19 10:15		N3
Field pH	7.61	Std. Units			1		03/06/19 10:15		N3
200.7 MET ICP, Drinking Water		Analytical Method: EPA 200.7							
Ca Hardness as CaCO ₃ (SM 2340B)	54.9	mg/L	0.50		1		03/07/19 17:43		
Iron	0.041	mg/L	0.020		1		03/07/19 17:43	7439-89-6	
Manganese	<0.010	mg/L	0.010		1		03/07/19 17:43	7439-96-5	
Sodium	40.7	mg/L	0.20		1		03/07/19 17:43	7440-23-5	
Zinc	<0.020	mg/L	0.020		1		03/07/19 17:43	7440-66-6	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Antimony	<0.40	ug/L	0.40		1		03/07/19 11:59	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		03/07/19 11:59	7440-38-2	
Barium	0.035	mg/L	0.0020		1		03/07/19 11:59	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		03/07/19 11:59	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		03/07/19 11:59	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		03/07/19 11:59	7440-47-3	
Lead	<1.0	ug/L	1.0		1		03/07/19 11:59	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		03/07/19 11:59	7439-97-6	
Nickel	<0.00050	mg/L	0.00050		1		03/07/19 11:59	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		03/07/19 11:59	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		03/07/19 11:59	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		03/07/19 11:59	7440-28-0	
2120B W Apparent Color		Analytical Method: SM22 2120B							
Apparent Color	<5.0	units	5.0		1		03/07/19 00:05		
pH	8.0	Std. Units	0.10		1		03/07/19 00:05		
2150B Threshold Odor Number		Analytical Method: SM22 2150B							
Odor @ 60 Degrees C	No odor observed		1.0		1		03/07/19 00:14		
2510B Specific Conductance		Analytical Method: SM22 2510B							
Specific Conductance	393	umhos/cm	1.0		1		03/09/19 07:50		
5540C MBAS Surfactants		Analytical Method: SM22 5540C Preparation Method: SM22 5540C							
LAS Molecular Weight, g/mol	320				1	03/06/19 23:34	03/06/19 23:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	03/06/19 23:34	03/06/19 23:39		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	<0.10	mg/L	0.10		1		03/16/19 06:10	16984-48-8	
Sulfate	15.7	mg/L	5.0		1		03/16/19 06:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DIST IOC 3/6

Pace Project No.: 7081475

Sample: HB8		Lab ID: 7081475002		Collected: 03/06/19 10:15		Received: 03/06/19 16:15		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrate as N	4.2	mg/L	0.50		10		03/06/19 21:27	14797-55-8	
Nitrate-Nitrite (as N)	4.2	mg/L	0.50		10		03/06/19 21:27	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2							
Nitrite as N	<0.050	mg/L	0.050		1		03/06/19 19:08	14797-65-0	
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	<10.0	ug/L	10.0		1	03/15/19 07:27	03/15/19 13:17	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E							
Chloride	62.1	mg/L	2.0		1		03/08/19 13:01	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		03/12/19 16:26	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch:	104469	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET No Prep Drinking Water
Associated Lab Samples:	7081475001, 7081475002		

METHOD BLANK: 483045 Matrix: Drinking Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	<0.50	0.50	03/07/19 17:09	
Iron	mg/L	<0.020	0.020	03/07/19 17:09	
Manganese	mg/L	<0.010	0.010	03/07/19 17:09	
Sodium	mg/L	<0.20	0.20	03/07/19 17:09	
Zinc	mg/L	<0.020	0.020	03/07/19 17:09	

LABORATORY CONTROL SAMPLE: 483046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L		61.9			
Iron	mg/L	2	2.0	100	85-115	
Manganese	mg/L	0.25	0.25	99	85-115	
Sodium	mg/L	50	50.1	100	85-115	
Zinc	mg/L	1	1.0	104	85-115	

MATRIX SPIKE SAMPLE: 483048

Parameter	Units	7081324002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	5820 ug/L		68.4			
Iron	mg/L	<20.0 ug/L	2	2.0	102	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.25	101	70-130	
Sodium	mg/L	10400 ug/L	50	60.5	100	70-130	
Zinc	mg/L	<20.0 ug/L	1	1.1	106	70-130	

MATRIX SPIKE SAMPLE: 483050

Parameter	Units	7081342001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	6.3		65.9			
Iron	mg/L	1.6	2	3.6	100	70-130	
Manganese	mg/L	0.022	0.25	0.27	100	70-130	
Sodium	mg/L	10.4	50	58.1	95	70-130	
Zinc	mg/L	0.092	1	1.2	106	70-130	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

SAMPLE DUPLICATE: 483047

Parameter	Units	7081324002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	5820 ug/L	5.8	0	20	
Iron	mg/L	<20.0 ug/L	<0.020		20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	10400 ug/L	10.4	0	20	
Zinc	mg/L	<20.0 ug/L	<0.020		20	

SAMPLE DUPLICATE: 483049

Parameter	Units	7081342001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	6.3	6.2	1	20	
Iron	mg/L	1.6	1.6	1	20	
Manganese	mg/L	0.022	0.022	1	20	
Sodium	mg/L	10.4	10.3	1	20	
Zinc	mg/L	0.092	0.094	3	20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104423

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET No Prep Drinking Water

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482920

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	03/07/19 09:08	
Arsenic	ug/L	<1.0	1.0	03/07/19 09:08	
Barium	mg/L	<0.0020	0.0020	03/07/19 09:08	
Beryllium	ug/L	<0.30	0.30	03/07/19 09:08	
Cadmium	ug/L	<1.0	1.0	03/07/19 09:08	
Chromium	mg/L	<0.0070	0.0070	03/07/19 09:08	
Lead	ug/L	<1.0	1.0	03/07/19 09:08	
Mercury	ug/L	<0.20	0.20	03/07/19 09:08	
Nickel	mg/L	<0.00050	0.00050	03/07/19 09:08	
Selenium	ug/L	<2.0	2.0	03/07/19 09:08	
Silver	mg/L	<0.0010	0.0010	03/07/19 09:08	
Thallium	ug/L	<0.30	0.30	03/07/19 09:08	

LABORATORY CONTROL SAMPLE: 482921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.2	96	85-115	
Arsenic	ug/L	50	49.0	98	85-115	
Barium	mg/L	0.05	0.049	99	85-115	
Beryllium	ug/L	50	48.9	98	85-115	
Cadmium	ug/L	50	48.7	97	85-115	
Chromium	mg/L	0.05	0.048	95	85-115	
Lead	ug/L	50	49.0	98	85-115	
Mercury	ug/L	1.5	1.5	97	85-115	
Nickel	mg/L	0.05	0.049	98	85-115	
Selenium	ug/L	50	48.0	96	85-115	
Silver	mg/L	0.05	0.048	97	85-115	
Thallium	ug/L	50	51.2	102	85-115	

MATRIX SPIKE SAMPLE: 482924

Parameter	Units	30282144001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	0.48	10	11.2	108	70-130	
Arsenic	ug/L	1.3	4	5.8	112	70-130	
Barium	mg/L	112 ug/L	0.2	0.34	115	70-130	
Beryllium	ug/L	ND	5	5.6	111	70-130	
Cadmium	ug/L	ND	5	5.7	113	70-130	
Chromium	mg/L	ND	0.02	0.021	103	70-130	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

MATRIX SPIKE SAMPLE:		482924					
Parameter	Units	30282144001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	7.0	2	9.2	114	70-130	
Mercury	ug/L	ND	0.4	0.41	94	70-130	
Nickel	mg/L	0.98 ug/L	0.05	0.052	102	70-130	
Selenium	ug/L	ND	1	<2.0	136	70-130	M1
Silver	mg/L	ND	0.005	0.0033	51	70-130	M1
Thallium	ug/L	ND	5	5.5	110	70-130	

MATRIX SPIKE SAMPLE:		482926					
Parameter	Units	30282224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	10	10.0	100	70-130	
Arsenic	ug/L	ND	4	4.5	110	70-130	
Barium	mg/L	29.8 ug/L	0.2	0.26	113	70-130	
Beryllium	ug/L	ND	5	5.7	115	70-130	
Cadmium	ug/L	ND	5	5.5	110	70-130	
Chromium	mg/L	ND	0.02	0.021	103	70-130	
Lead	ug/L	ND	2	2.4	108	70-130	
Mercury	ug/L	ND	0.4	0.40	95	70-130	
Nickel	mg/L	3.7 ug/L	0.05	0.056	105	70-130	
Selenium	ug/L	ND	1	<2.0	160	70-130	M1
Silver	mg/L	ND	0.005	0.0023	43	70-130	M1
Thallium	ug/L	ND	5	5.5	109	70-130	

SAMPLE DUPLICATE: 482923

Parameter	Units	30282144001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	0.48	<0.40		20	
Arsenic	ug/L	1.3	1.4	2	20	
Barium	mg/L	112 ug/L	0.11	0	20	
Beryllium	ug/L	ND	<0.30		20	
Cadmium	ug/L	ND	<1.0		20	
Chromium	mg/L	ND	<0.0070		20	
Lead	ug/L	7.0	7.1	2	20	
Mercury	ug/L	ND	<0.20		20	
Nickel	mg/L	0.98 ug/L	0.00092	5	20	
Selenium	ug/L	ND	<2.0		20	
Silver	mg/L	ND	<0.0010		20	
Thallium	ug/L	ND	<0.30		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

SAMPLE DUPLICATE: 482925

Parameter	Units	30282224002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	<0.40		20	
Arsenic	ug/L	ND	<1.0		20	
Barium	mg/L	29.8 ug/L	0.030	0	20	
Beryllium	ug/L	ND	<0.30		20	
Cadmium	ug/L	ND	<1.0		20	
Chromium	mg/L	ND	<0.0070		20	
Lead	ug/L	ND	<1.0		20	
Mercury	ug/L	ND	<0.20		20	
Nickel	mg/L	3.7 ug/L	0.0037	0	20	
Selenium	ug/L	ND	<2.0		20	
Silver	mg/L	ND	<0.0010		20	
Thallium	ug/L	ND	<0.30		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104405

Analysis Method: SM22 2120B

QC Batch Method: SM22 2120B

Analysis Description: 2120B Color

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482872

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	03/07/19 00:02	

LABORATORY CONTROL SAMPLE: 482873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 482874

Parameter	Units	7081475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Apparent Color	units	<5.0	<5.0		20	
pH	Std. Units	7.0	7.0	0	10	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104406

Analysis Method: SM22 2150B

QC Batch Method: SM22 2150B

Analysis Description: 2150B Threshold Odor Number

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482875

Matrix: Drinking Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Odor @ 60 Degrees C		No odor	1.0	03/07/19 00:13	

SAMPLE DUPLICATE: 482876

Parameter	Units	7081420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Odor @ 60 Degrees C		No odor observed	No odor		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch:	104762	Analysis Method:	SM22 2510B
QC Batch Method:	SM22 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	7081475001, 7081475002		

METHOD BLANK: 484489 Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	03/09/19 07:34	

LABORATORY CONTROL SAMPLE: 484490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	716	100	85-115	

SAMPLE DUPLICATE: 484491

Parameter	Units	7081503001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	272	272	0	20	H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104396

Analysis Method: SM22 5540C

QC Batch Method: SM22 5540C

Analysis Description: 5540C MBAS Surfactants

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482832

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320		03/06/19 23:39	
MBAS, Calculated as LAS	mg/L	<0.080	0.080	03/06/19 23:39	

LABORATORY CONTROL SAMPLE: 482833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	0.24	0.25	104	85-115	

MATRIX SPIKE SAMPLE: 482834

Parameter	Units	7081475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol				320			
MBAS, Calculated as LAS	mg/L	<0.080	0.24	0.19	72	75-125	M1

SAMPLE DUPLICATE: 482835

Parameter	Units	7081475001 Result	Dup Result	RPD	Max RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320			
MBAS, Calculated as LAS	mg/L	<0.080	<0.080		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 105659

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 488475

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.10	0.10	03/16/19 05:20	
Sulfate	mg/L	<5.0	5.0	03/16/19 05:20	

LABORATORY CONTROL SAMPLE: 488476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	1	1.0	104	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE SAMPLE: 488477

Parameter	Units	7081766001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	1.1	108	80-120	
Sulfate	mg/L	<5.0	10	15.2	108	80-120	

SAMPLE DUPLICATE: 488478

Parameter	Units	7081766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		20	
Sulfate	mg/L	<5.0	<5.0		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104394

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482708

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	03/06/19 19:01	

LABORATORY CONTROL SAMPLE: 482709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 482710

Parameter	Units	7081480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.56	113	90-110	M1

MATRIX SPIKE SAMPLE: 482712

Parameter	Units	7081476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.55	111	90-110	M1

SAMPLE DUPLICATE: 482711

Parameter	Units	7081480001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 482713

Parameter	Units	7081476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 104400

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate, Unpres.

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 482850

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	03/06/19 21:20	

LABORATORY CONTROL SAMPLE: 482851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 482852

Parameter	Units	7081388001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.25	0.5	0.94	139	90-110	M1

MATRIX SPIKE SAMPLE: 482854

Parameter	Units	7081480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.7	5	11.2	129	90-110	M6

SAMPLE DUPLICATE: 482853

Parameter	Units	7081388001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.25	0.25	0	20	

SAMPLE DUPLICATE: 482855

Parameter	Units	7081480001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.7	4.8	1	20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch: 105514

Analysis Method: SM22 4500-CN-E

QC Batch Method: SM20/22 4500-CN-C

Analysis Description: 4500 CNE Cyanide, Total

Associated Lab Samples: 7081475001, 7081475002

METHOD BLANK: 487886

Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	03/15/19 13:13	

LABORATORY CONTROL SAMPLE: 487887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	69.4	92	85-115	

MATRIX SPIKE SAMPLE: 487888

Parameter	Units	7081475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	97.5	96	75-125	

SAMPLE DUPLICATE: 487889

Parameter	Units	7081475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch:	104686	Analysis Method:	SM22 4500-Cl-E
QC Batch Method:	SM22 4500-Cl-E	Analysis Description:	4500 Chloride
Associated Lab Samples:	7081475001, 7081475002		

METHOD BLANK: 483917 Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	03/08/19 12:51	

LABORATORY CONTROL SAMPLE: 483918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.3	107	90-110	

MATRIX SPIKE SAMPLE: 483919

Parameter	Units	7081475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	40.3	25	62.9	90	80-120	

SAMPLE DUPLICATE: 483920

Parameter	Units	7081475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	40.3	40.1	0	20	

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QUALITY CONTROL DATA

Project: DIST IOC 3/6

Pace Project No.: 7081475

QC Batch:	105036	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
Associated Lab Samples:	7081475001, 7081475002		

METHOD BLANK: 485536 Matrix: Water

Associated Lab Samples: 7081475001, 7081475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	03/12/19 15:58	

LABORATORY CONTROL SAMPLE: 485537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 485538

Parameter	Units	7081475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	104	75-125	

SAMPLE DUPLICATE: 485539

Parameter	Units	7081475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		20	

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QUALIFIERS

Project: DIST IOC 3/6
Pace Project No.: 7081475

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| H1 | Analysis conducted outside the EPA method holding time. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |
| N3 | Accreditation is not offered by the relevant laboratory accrediting body for this parameter. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DIST IOC 3/6

Pace Project No.: 7081475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7081475001	HB3		104442		
7081475002	HB8		104442		
7081475001	HB3	EPA 200.7	104469		
7081475002	HB8	EPA 200.7	104469		
7081475001	HB3	EPA 200.8	104423		
7081475002	HB8	EPA 200.8	104423		
7081475001	HB3	SM22 2120B	104405		
7081475002	HB8	SM22 2120B	104405		
7081475001	HB3	SM22 2150B	104406		
7081475002	HB8	SM22 2150B	104406		
7081475001	HB3	SM22 2510B	104762		
7081475002	HB8	SM22 2510B	104762		
7081475001	HB3	SM22 5540C	104396	SM22 5540C	104407
7081475002	HB8	SM22 5540C	104396	SM22 5540C	104407
7081475001	HB3	EPA 300.0	105659		
7081475002	HB8	EPA 300.0	105659		
7081475001	HB3	EPA 353.2	104400		
7081475002	HB8	EPA 353.2	104400		
7081475001	HB3	EPA 353.2	104394		
7081475002	HB8	EPA 353.2	104394		
7081475001	HB3	SM20/22 4500-CN-C	105514	SM22 4500-CN-E	105583
7081475002	HB8	SM20/22 4500-CN-C	105514	SM22 4500-CN-E	105583
7081475001	HB3	SM22 4500-Cl-E	104686		
7081475002	HB8	SM22 4500-Cl-E	104686		
7081475001	HB3	SM22 4500 NH3 H	105036		
7081475002	HB8	SM22 4500 NH3 H	105036		

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WO#: 7081475



747

Sample Request Form PUBLIC WATER SUPPLIER

☐ WELL OFF LINE

Date: 3-6-19

Collected By: G. VALENTINO

Client Info:

Name or Code: HAMPTON BAYS WATER DISTRICT

Address: P.O. BOX 1013
HAMPTON BAYS, NEW YORK 11946

Phone #: (631) 728-0179

Attn: _____

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

☐ WELL RUN TO SYSTEM

Accepted By: *[Signature]*

Cooler Temp: 3.8 °C

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

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 pH/Temp	Analysis	Lab No.
3-6-19 815	PW	#27	D	-	RO	.67 7.40	BACT w/cl	
3-6-19 830	PW	#2	D	-	RO	.55 7.42	BACT w/cl	
3-6-19 845	PW	#3	D	-	RO	.22 7.40/12.34	BACT w/cl (IOC)	001
3-6-19 900	PW	#4	D	-	RO	.29 7.43	BACT w/cl	
3-6-19 915	PW	#5	D	-	RO	.57 7.48	BACT w/cl	
3-6-19 930	PW	#6	D	-	RO	.36 7.50	BACT w/cl	
3-6-19 1000	PW	#7	D	-	RO	.36 7.56	BACT w/cl	
3-6-19 1015	PW	#8	D	-	RO	.97 7.61/6.70	BACT w/cl (IOC)	002
3-6-19 800	PW	#9	D	-	RO	.79 7.35	BACT w/cl	
3-6-19 1030	PW	#10	D	-	RO	.54 7.54	BACT w/cl	
3-6-19 1045	PW	#11	D	-	RO	.40 7.44	BACT w/cl	

Remarks:



Sample Condition Upon Receipt

Client Name:

HBW

Project

WO#: 7081475

PM: SWM Due Date: 03/18/19

CLIENT: HBW

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

Thermometer Used: TH091

Correction Factor:

0.0

Cooler Temperature (°C):

3.8

Cooler Temperature Corrected (°C):

3.8

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents:

Ed 3/6/19

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 (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 (W) OIL				
All containers needing preservation have been checked	☒ Yes	☐ No	☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☒ Yes	☐ No	☐ 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:	☐ Yes	☐ No	☒ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
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: