

April 25, 2019

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

RE: Project: IOC/NO3 4/17
Pace Project No.: 7086212

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 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: IOC/NO3 4/17

Pace Project No.: 7086212

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: IOC/NO3 4/17

Pace Project No.: 7086212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7086212001	S-108066	Drinking Water	04/17/19 10:30	04/17/19 16:00
7086212002	S-108066	Drinking Water	04/17/19 09:28	04/17/19 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IOC/NO3 4/17

Pace Project No.: 7086212

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7086212001	S-108066	EPA 200.7	AKS	5
		EPA 200.8	AKS	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
7086212002	S-108066	EPA 353.2	SDO	2
		EPA 353.2	SDO	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IOC/NO3 4/17

Pace Project No.: 7086212

Sample: S-108066		Lab ID: 7086212001		Collected: 04/17/19 10:30		Received: 04/17/19 16:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Chlorine and pH		Analytical Method:							
Field Temperature	12.2	deg C			1		04/17/19 10:30		N3
Field pH	6.69	Std. Units			1		04/17/19 10:30		N3
200.7 MET ICP, Drinking Water		Analytical Method: EPA 200.7							
Ca Hardness as CaCO ₃ (SM 2340B)	11.7	mg/L	0.50		1		04/19/19 17:24		
Iron	2.7	mg/L	0.020		1		04/19/19 17:24	7439-89-6	
Manganese	0.22	mg/L	0.010		1		04/19/19 17:24	7439-96-5	
Sodium	13.6	mg/L	0.20		1		04/19/19 17:24	7440-23-5	
Zinc	<0.020	mg/L	0.020		1		04/19/19 17:24	7440-66-6	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Antimony	<0.40	ug/L	0.40		1		04/18/19 16:48	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/18/19 16:48	7440-38-2	
Barium	0.023	mg/L	0.0020		1		04/18/19 16:48	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/18/19 16:48	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/18/19 16:48	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/18/19 16:48	7440-47-3	
Lead	<1.0	ug/L	1.0		1		04/18/19 16:48	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/18/19 16:48	7439-97-6	
Nickel	0.00089	mg/L	0.00050		1		04/18/19 16:48	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/18/19 16:48	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/18/19 16:48	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/18/19 16:48	7440-28-0	
2120B W Apparent Color		Analytical Method: SM22 2120B							
Apparent Color	40.0	units	5.0		1		04/19/19 01:02		
pH	5.0	Std. Units	0.10		1		04/19/19 01:02		
2150B Threshold Odor Number		Analytical Method: SM22 2150B							
Odor @ 60 Degrees C	No odor observed		1.0		1		04/18/19 02:28		
2510B Specific Conductance		Analytical Method: SM22 2510B							
Specific Conductance	120	umhos/cm	1.0		1		04/21/19 06:45		
5540C MBAS Surfactants		Analytical Method: SM22 5540C Preparation Method: SM22 5540C							
LAS Molecular Weight, g/mol	320				1	04/17/19 23:39	04/17/19 23:51		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/17/19 23:39	04/17/19 23:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	<0.10	mg/L	0.10		1		04/24/19 23:48	16984-48-8	
Sulfate	7.4	mg/L	5.0		1		04/24/19 23:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IOC/NO3 4/17

Pace Project No.: 7086212

Sample: S-108066		Lab ID: 7086212001		Collected: 04/17/19 10:30		Received: 04/17/19 16:00		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	0.25	mg/L	0.050		1		04/17/19 22:51	14797-55-8	
Nitrate-Nitrite (as N)	0.25	mg/L	0.050		1		04/17/19 22:51	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2							
Nitrite as N	<0.050	mg/L	0.050		1		04/17/19 20:01	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	04/25/19 07:49	04/25/19 14:00	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E							
Chloride	20.8	mg/L	2.0		1		04/19/19 12:01	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	0.20	mg/L	0.10		1		04/25/19 14:12	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IOC/NO3 4/17

Pace Project No.: 7086212

Sample: S-108066		Lab ID: 7086212002		Collected: 04/17/19 09:28		Received: 04/17/19 16:00		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	0.29	mg/L	0.050		1		04/17/19 22:52	14797-55-8	
Nitrate-Nitrite (as N)	0.29	mg/L	0.050		1		04/17/19 22:52	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2							
Nitrite as N	<0.050	mg/L	0.050		1		04/17/19 20:02	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 110154

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET No Prep Drinking Water

Associated Lab Samples: 7086212001

METHOD BLANK: 511077

Matrix: Drinking Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	<0.50	0.50	04/19/19 17:04	
Iron	mg/L	<0.020	0.020	04/19/19 17:04	
Manganese	mg/L	<0.010	0.010	04/19/19 17:04	
Sodium	mg/L	<0.20	0.20	04/19/19 17:04	
Zinc	mg/L	<0.020	0.020	04/19/19 17:04	

LABORATORY CONTROL SAMPLE: 511078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L		62.7			
Iron	mg/L	2	2.0	100	85-115	
Manganese	mg/L	0.25	0.25	100	85-115	
Sodium	mg/L	50	51.0	102	85-115	
Zinc	mg/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 511080

Parameter	Units	7085968006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	9460 ug/L		71.9			
Iron	mg/L	0.047	2	2.0	97	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.25	97	70-130	
Sodium	mg/L	21300 ug/L	50	71.0	99	70-130	
Zinc	mg/L	357 ug/L	1	1.3	95	70-130	

MATRIX SPIKE SAMPLE: 511082

Parameter	Units	7085968007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	40200 ug/L		106			
Iron	mg/L	0.069	2	2.2	106	70-130	
Manganese	mg/L	18.0 ug/L	0.25	0.28	104	70-130	
Sodium	mg/L	36800 ug/L	50	89.0	104	70-130	
Zinc	mg/L	409 ug/L	1	1.4	102	70-130	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

SAMPLE DUPLICATE: 511079

Parameter	Units	7085968006 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	9460 ug/L	9.4	1	20	
Iron	mg/L	0.047	0.048	2	20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	21300 ug/L	21.2	0	20	
Zinc	mg/L	357 ug/L	0.36	1	20	

SAMPLE DUPLICATE: 511081

Parameter	Units	7085968007 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	40200 ug/L	40.0	1	20	
Iron	mg/L	0.069	0.069	1	20	
Manganese	mg/L	18.0 ug/L	0.018	2	20	
Sodium	mg/L	36800 ug/L	36.6	1	20	
Zinc	mg/L	409 ug/L	0.40	1	20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 109719

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET No Prep Drinking Water

Associated Lab Samples: 7086212001

METHOD BLANK: 508969

Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	04/18/19 16:06	
Arsenic	ug/L	<1.0	1.0	04/18/19 16:06	
Barium	mg/L	<0.0020	0.0020	04/18/19 16:06	
Beryllium	ug/L	<0.30	0.30	04/18/19 16:06	
Cadmium	ug/L	<1.0	1.0	04/18/19 16:06	
Chromium	mg/L	<0.0070	0.0070	04/18/19 16:06	
Lead	ug/L	<1.0	1.0	04/18/19 16:06	
Mercury	ug/L	<0.20	0.20	04/18/19 16:06	
Nickel	mg/L	<0.00050	0.00050	04/18/19 16:06	
Selenium	ug/L	<2.0	2.0	04/18/19 16:06	
Silver	mg/L	<0.0010	0.0010	04/18/19 16:06	
Thallium	ug/L	<0.30	0.30	04/18/19 16:06	

LABORATORY CONTROL SAMPLE: 508970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.2	100	85-115	
Arsenic	ug/L	50	49.5	99	85-115	
Barium	mg/L	0.05	0.049	98	85-115	
Beryllium	ug/L	50	51.0	102	85-115	
Cadmium	ug/L	50	51.4	103	85-115	
Chromium	mg/L	0.05	0.049	98	85-115	
Lead	ug/L	50	49.6	99	85-115	
Mercury	ug/L	1.5	1.5	97	85-115	
Nickel	mg/L	0.05	0.050	100	85-115	
Selenium	ug/L	50	48.9	98	85-115	
Silver	mg/L	0.05	0.050	100	85-115	
Thallium	ug/L	50	52.9	106	85-115	

MATRIX SPIKE SAMPLE: 508973

Parameter	Units	7085984001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	20	20.0	100	70-130	
Arsenic	ug/L	<1.0	8	8.6	108	70-130	
Barium	mg/L	28.9 ug/L	0.4	0.46	107	70-130	
Beryllium	ug/L	<0.30	10	11.3	113	70-130	
Cadmium	ug/L	<1.0	10	11.0	110	70-130	
Chromium	mg/L	<0.0070	0.04	0.040	98	70-130	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

MATRIX SPIKE SAMPLE: 508973

Parameter	Units	7085984001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.7	104	70-130	
Mercury	ug/L	<0.20	0.4	0.43	103	70-130	
Nickel	mg/L	<0.50 ug/L	0.1	0.10	101	70-130	
Selenium	ug/L	<2.0	2	2.7	116	70-130	
Silver	mg/L	<1.0 ug/L	0.01	0.0096	95	70-130	
Thallium	ug/L	<0.30	10	10.7	107	70-130	

MATRIX SPIKE SAMPLE: 510283

Parameter	Units	7085836003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	20	21.1	105	70-130	
Arsenic	ug/L	<1.0	8	8.5	107	70-130	
Barium	mg/L	20.9 ug/L	0.4	0.44	105	70-130	
Beryllium	ug/L	<0.30	10	11.1	108	70-130	
Cadmium	ug/L	<1.0	10	11.0	110	70-130	
Chromium	mg/L	<7.0 ug/L	0.04	0.040	101	70-130	
Lead	ug/L	<1.0	4	4.3	106	70-130	
Mercury	ug/L	<0.20	0.4	0.57	138	70-130	M1
Nickel	mg/L	5.2 ug/L	0.1	0.11	102	70-130	
Selenium	ug/L	<2.0	2	2.7	137	70-130	M1
Silver	mg/L	<1.0 ug/L	0.01	0.0070	68	70-130	M1
Thallium	ug/L	<0.30	10	9.9	99	70-130	

SAMPLE DUPLICATE: 508972

Parameter	Units	7085984001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	28.9 ug/L	0.029	2	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<0.0070	<0.0070		20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	<0.50 ug/L	<0.00050		20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<1.0 ug/L	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

SAMPLE DUPLICATE: 510282

Parameter	Units	7085836003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	20.9 ug/L	0.020	2	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<7.0 ug/L	<0.0070		20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	5.2 ug/L	0.0050	4	20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<1.0 ug/L	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch:	110075	Analysis Method:	SM22 2120B
QC Batch Method:	SM22 2120B	Analysis Description:	2120B Color
Associated Lab Samples:	7086212001		

METHOD BLANK: 510606 Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	04/18/19 23:58	

LABORATORY CONTROL SAMPLE: 510607

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

SAMPLE DUPLICATE: 510927

Parameter	Units	7086253006 Result	Dup Result	RPD	Max RPD	Qualifiers
Apparent Color	units	5.0	5.0	0	20	
pH	Std. Units	7.0	7.0	0	10	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 109916

Analysis Method: SM22 2150B

QC Batch Method: SM22 2150B

Analysis Description: 2150B Threshold Odor Number

Associated Lab Samples: 7086212001

METHOD BLANK: 510046

Matrix: Drinking Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Odor @ 60 Degrees C		No odor	1.0	04/18/19 02:23	

SAMPLE DUPLICATE: 510047

Parameter	Units	7086226001 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: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch:	110277	Analysis Method:	SM22 2510B
QC Batch Method:	SM22 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	7086212001		

METHOD BLANK: 513330 Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	04/21/19 06:38	

LABORATORY CONTROL SAMPLE: 513331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	713	99	85-115	

SAMPLE DUPLICATE: 513332

Parameter	Units	7085878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	87.6	87.7	0	20	

SAMPLE DUPLICATE: 513333

Parameter	Units	7084293006 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	234	235	0	20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 109878

Analysis Method: SM22 5540C

QC Batch Method: SM22 5540C

Analysis Description: 5540C MBAS Surfactants

Associated Lab Samples: 7086212001

METHOD BLANK: 509576

Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320		04/17/19 23:50	
MBAS, Calculated as LAS	mg/L	<0.080	0.080	04/17/19 23:50	

LABORATORY CONTROL SAMPLE: 509577

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	0.21	86	85-115	

MATRIX SPIKE SAMPLE: 509578

Parameter	Units	7085923001 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	0.20	83	75-125	

SAMPLE DUPLICATE: 509579

Parameter	Units	7085923001 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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 110613

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 7086212001

METHOD BLANK: 515119

Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.10	0.10	04/24/19 21:51	
Sulfate	mg/L	<5.0	5.0	04/24/19 21:51	

LABORATORY CONTROL SAMPLE: 515120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	1	1.1	108	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 515121

Parameter	Units	7086636002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	0.98	94	80-120	
Sulfate	mg/L	21.5	10	33.0	114	80-120	

MATRIX SPIKE SAMPLE: 515123

Parameter	Units	7086155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	0.93	93	80-120	
Sulfate	mg/L	<5.0	10	11.2	97	80-120	

SAMPLE DUPLICATE: 515122

Parameter	Units	7086636002 Result	Dup Result	RPD	Max RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		20	
Sulfate	mg/L	21.5	21.5	0	20	

SAMPLE DUPLICATE: 515124

Parameter	Units	7086155001 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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 109888

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Associated Lab Samples: 7086212001, 7086212002

METHOD BLANK: 509761

Matrix: Water

Associated Lab Samples: 7086212001, 7086212002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	04/17/19 19:37	

LABORATORY CONTROL SAMPLE: 509762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 509763

Parameter	Units	7086188001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	103	90-110	

MATRIX SPIKE SAMPLE: 509765

Parameter	Units	7086214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.53	107	90-110	

SAMPLE DUPLICATE: 509764

Parameter	Units	7086188001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 509766

Parameter	Units	7086214001 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: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 109905

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate, Unpres.

Associated Lab Samples: 7086212001, 7086212002

METHOD BLANK: 509927

Matrix: Water

Associated Lab Samples: 7086212001, 7086212002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	04/17/19 22:27	

LABORATORY CONTROL SAMPLE: 509928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 509929

Parameter	Units	7086226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.2	5	6.9	74	90-110	M6

MATRIX SPIKE SAMPLE: 509931

Parameter	Units	7086158001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.4	5	8.1	74	90-110	M6

SAMPLE DUPLICATE: 509930

Parameter	Units	7086226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.2	3.2	1	20	

SAMPLE DUPLICATE: 509932

Parameter	Units	7086158001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.4	4.4	1	20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 110825

Analysis Method: SM22 4500-CN-E

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

Analysis Description: 4500 CNE Cyanide, Total

Associated Lab Samples: 7086212001

METHOD BLANK: 517558

Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	04/25/19 13:50	

LABORATORY CONTROL SAMPLE: 517559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	69.1	92	85-115	

MATRIX SPIKE SAMPLE: 517560

Parameter	Units	30290437001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	95.8	93	75-125	H3

SAMPLE DUPLICATE: 517561

Parameter	Units	30290437001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	<10.0		20	H3

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch:	110129	Analysis Method:	SM22 4500-Cl-E
QC Batch Method:	SM22 4500-Cl-E	Analysis Description:	4500 Chloride
Associated Lab Samples:	7086212001		

METHOD BLANK: 511011 Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	04/19/19 11:43	

LABORATORY CONTROL SAMPLE: 511012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	

MATRIX SPIKE SAMPLE: 511013

Parameter	Units	7086046001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10.1	25	36.0	104	80-120	

SAMPLE DUPLICATE: 511014

Parameter	Units	7086046001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	10.1	10	1	20	

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QUALITY CONTROL DATA

Project: IOC/NO3 4/17

Pace Project No.: 7086212

QC Batch: 110914

Analysis Method: SM22 4500 NH3 H

QC Batch Method: SM22 4500 NH3 H

Analysis Description: 4500 Ammonia

Associated Lab Samples: 7086212001

METHOD BLANK: 518535

Matrix: Water

Associated Lab Samples: 7086212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	04/25/19 13:04	

LABORATORY CONTROL SAMPLE: 518536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 518537

Parameter	Units	7086155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.17	3	2.9	91	75-125	

SAMPLE DUPLICATE: 518538

Parameter	Units	7086155001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.17	0.19	13	20	

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QUALIFIERS

Project: IOC/NO3 4/17

Pace Project No.: 7086212

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

H3 Sample was received or analysis requested beyond the recognized 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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IOC/NO3 4/17

Pace Project No.: 7086212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7086212001	S-108066		110000		
7086212001	S-108066	EPA 200.7	110154		
7086212001	S-108066	EPA 200.8	109719		
7086212001	S-108066	SM22 2120B	110075		
7086212001	S-108066	SM22 2150B	109916		
7086212001	S-108066	SM22 2510B	110277		
7086212001	S-108066	SM22 5540C	109878	SM22 5540C	109914
7086212001	S-108066	EPA 300.0	110613		
7086212001	S-108066	EPA 353.2	109905		
7086212002	S-108066	EPA 353.2	109905		
7086212001	S-108066	EPA 353.2	109888		
7086212002	S-108066	EPA 353.2	109888		
7086212001	S-108066	SM20/22 4500-CN-C	110825	SM22 4500-CN-E	110857
7086212001	S-108066	SM22 4500-Cl-E	110129		
7086212001	S-108066	SM22 4500 NH3 H	110914		

REPORT OF LABORATORY ANALYSIS

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Sample Request Form

PUBLIC WATER SUPPLIER

51-21-7

Date:

Client Info:

Client Info:
Name or Code: HAMPTON BAYS WATER DISTRICT
P.O. BOX 1013
Address: HAMPTON BAYS, NEW YORK 11946
(631) 728-0179

Collected By: W. B. Smith 9/17/19 ☐ WELL RUN

Accepted By: [Signature] 12-20

Cooler Temp: 2.7 °C ☐ YES ☐ NO

☐ 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:

[illegible]



Sample Condition Upon Receipt

Client Name:

HBW

Project

WO#: 7086212

PM: SWM Due Date: 04/23/19

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):

2.7

Cooler Temperature Corrected (°C):

2.7

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents:

4/17/19

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 WT OIL				
All containers needing preservation have been checked	☒ Yes	☐ No	☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	1885766			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				
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
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: