Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 11, 2017

Dave Blye
Environmental Standards, Inc.
1140 Valley Forge Road
PO Box 810
Valley Forge, PA 19482

RE: Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Dear Dave Blye:
Enclosed are the analytical results for sample(s) received by the laboratory on November 28, 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,

Carol Davy
carol.davy@pacelabs.com
1(612)607-6436
Project Manager

Enclosures

cc: Mark LaRue, Anchor QEA
Meg Michell, Environmental Standards, Inc.
Christopher Yates, Anchor QEA, LLC

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Hudson River Redmedial Action
Pace Project No.:	10412310

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10412310001	**OWS-BAFA-T171121144625**	Water	11/21/17 13:33	11/28/17 09:50
10412310002	**OWS-BDUP-T171120135853**	Water	11/20/17 00:00	11/28/17 09:50
10412310003	**OWS-LHAL-T171120135719**	Water	11/20/17 09:20	11/28/17 09:50
10412310004	**OWS-LHPO-T171120135816**	Water	11/20/17 11:11	11/28/17 09:50
10412310005	**OWS-ROIS-T171121144906**	Water	11/21/17 13:58	11/28/17 09:50
10412310006	**OWS-SCHU-T171121144423**	Water	11/21/17 11:34	11/28/17 09:50
10412310007	**OWS-THIS-T17112144519**	Water	11/21/17 12:15	11/28/17 09:50
10412310008	**OWS-WAFO-T171121144326**	Water	11/21/17 10:13	11/28/17 09:50

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SAMPLE ANALYTE COUNT

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10412310001	**OWS-BAFA-T171121144625**	SM 2540D	NAS	1	PASI-M
10412310002	**OWS-BDUP-T171120135853**	SM 2540D	NAS	1	PASI-M
10412310003	**OWS-LHAL-T171120135719**	SM 2540D	NAS	1	PASI-M
10412310004	**OWS-LHPO-T171120135816**	SM 2540D	NAS	1	PASI-M
10412310005	**OWS-ROIS-T171121144906**	SM 2540D	NAS	1	PASI-M
10412310006	**OWS-SCHU-T171121144423**	SM 2540D	NAS	1	PASI-M
10412310007	**OWS-THIS-T17112144519**	SM 2540D	NAS	1	PASI-M
10412310008	**OWS-WAFO-T171121144326**	SM 2540D	NAS	1	PASI-M

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PROJECT NARRATIVE

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Method: **SM 2540D**
Description: 2540D TSS, Low Level
Client: GE_Anchor QEA, LLC
Date: December 11, 2017

General Information:
8 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- OWS-BDUP-T171120135853 (Lab ID: 10412310002)
- OWS-LHAL-T171120135719 (Lab ID: 10412310003)
- OWS-LHPO-T171120135816 (Lab ID: 10412310004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Sample: OWS-BAFA-T171121144625 **Lab ID: 10412310001** Collected: 11/21/17 13:33 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4**	mg/L	1.0	0.50	1		11/28/17 15:51		

Sample: OWS-BDUP-T171120135853 **Lab ID: 10412310002** Collected: 11/20/17 00:00 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**16.9**	mg/L	0.99	0.49	1		11/28/17 15:51		H3

Sample: OWS-LHAL-T171120135719 **Lab ID: 10412310003** Collected: 11/20/17 09:20 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**4.7**	mg/L	1.1	0.54	1		11/28/17 15:51		H3

Sample: OWS-LHPO-T171120135816 **Lab ID: 10412310004** Collected: 11/20/17 11:11 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**16.8**	mg/L	0.98	0.49	1		11/28/17 15:51		H3

Sample: OWS-ROIS-T171121144906 **Lab ID: 10412310005** Collected: 11/21/17 13:58 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**1.2**	mg/L	0.98	0.49	1		11/28/17 15:51		

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ANALYTICAL RESULTS

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Sample: OWS-SCHU-T171121144423 **Lab ID: 10412310006** Collected: 11/21/17 11:34 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**3.2**	mg/L	0.98	0.49	1		11/28/17 15:51		

Sample: OWS-THIS-T17112144519 **Lab ID: 10412310007** Collected: 11/21/17 12:15 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**1.5**	mg/L	0.99	0.50	1		11/28/17 15:51		

Sample: OWS-WAFO-T171121144326 **Lab ID: 10412310008** Collected: 11/21/17 10:13 Received: 11/28/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**3.7**	mg/L	0.99	0.50	1		11/28/17 15:51		

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QUALITY CONTROL DATA

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

QC Batch: 510732 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D TSS, Low Level
Associated Lab Samples: 10412310001, 10412310002, 10412310003, 10412310004, 10412310005, 10412310006, 10412310007, 10412310008

METHOD BLANK: 2777104 | Matrix: Water
Associated Lab Samples: 10412310001, 10412310002, 10412310003, 10412310004, 10412310005, 10412310006, 10412310007, 10412310008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	0.50	11/28/17 15:51	

LABORATORY CONTROL SAMPLE: 2777105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	92.1	92	80-120	

SAMPLE DUPLICATE: 2777106

Parameter	Units	10412310005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1.2	1.2	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

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.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hudson River Redmedial Action
Pace Project No.: 10412310

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10412310001	**OWS-BAFA-T171121144625**	SM 2540D	510732		
10412310002	**OWS-BDUP-T171120135853**	SM 2540D	510732		
10412310003	**OWS-LHAL-T171120135719**	SM 2540D	510732		
10412310004	**OWS-LHPO-T171120135816**	SM 2540D	510732		
10412310005	**OWS-ROIS-T171121144906**	SM 2540D	510732		
10412310006	**OWS-SCHU-T171121144423**	SM 2540D	510732		
10412310007	**OWS-THIS-T17112144519**	SM 2540D	510732		
10412310008	**OWS-WAFO-T171121144326**	SM 2540D	510732		

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10412310

10412310

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC171121145518PACE
Sample Custodian: KMB
Lab: PACE

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative	
001	OWS-BAFA-T171121144625	ENV	W	11/21/2017	13:33	W	1								
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC	001
002	OWS-BDUP-T171120135853	DUP	W	11/20/2017		W	1								
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC	002
003	OWS-LHAL-T171120135719	ENV	W	11/20/2017	09:20	W	1								
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC	003
004	OWS-LHPO-T171120135816	ENV	W	11/20/2017	11:11	W	1								
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC	004
005	OWS-ROIS-T171121144906	ENV	W	11/21/2017	13:58	W	2								
								Total Suspended Solids	SM 2540D	N	N	Y	480	4degC	005
006	OWS-SCHU-T171121144423	ENV	W	11/21/2017	11:34	W	1								
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC	006
007	OWS-THIS-T171121144519	ENV	W	11/21/2017	12:15	W	1								
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC	007

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FED EX	Signature
Print Name	Print Name D. Bubnick	Print Name D. Bubnick	Print Name A. Bunnell	Print Name A. BUNNELL	Print Name Elizabeth Klein
Company	Company PACE	Company PACE	Company PACE T: 5.2°C	Company PACE	Company PACE
Date/Time 11/21/17 15:00	Date/Time 11/22/17 9:11	Date/Time 11/22/17 9:58	Date/Time 11/22/17 09:55	Date/Time 11/27/17 16:00	Date/Time 11/28/17 9:50 T: 6.7

Date Printed: 11/21/2017 * S= SEDIMENT, W= WATER, PW= PORE WATER ** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

10412310

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC171121145518PACE
Sample Custodian: KMB
Lab: PACE

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
008	OWS-WAFO-T171121144326	ENV	W	11/21/2017	10:13	W	1							
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC

008

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FED EX-5	Signature
Print Name	Print Name D. Bubnich	Print Name D. Bubnich	Print Name	Print Name	Print Name
Company	Company PACE	Company PACE	Company PACE T: 5.2°C	Company PACE	Company
Date/Time 11/21/17 15:00	Date/Time 11/22/17 9:11	Date/Time 11/22/17 9:55	Date/Time 11/22/17 09:55	Date/Time 11/27/17 16:00	Date/Time 11/27/17 ~~64~~950 T=0.7

Date Printed: 11/21/2017 * S= SEDIMENT, W= WATER, PW= PORE WATER ** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 2 of 2

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form - ESI**	Document Revised: 30Aug2017 Page 1 of 2
	Document No.: **F-MN-L-210-rev.23**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt – ESI Tech Specs

Client Name: Anchor - GE

Project #: WO#: 10412310

10412310

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

Tracking Number: 4099 9170 7228

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other: PB **Temp Blank?** ☐ Yes ☑ No

Thermometer Used: ☐ 151401163 ☑ G87A9155100842 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.6 **Cooler Temp Corrected (°C):** 0.7 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ NA

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** 11/28/17

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

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 maps)? ☐ 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-MN-Q-338) 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 and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☐ Yes	☑ No		5. TSS collected ~~11/28~~ 11/20/17 11/28/17
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume (triple volume provided for MS/MSD)?	☐ Yes	☑ No		8. NO MS/MSD
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: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, NaOH>9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water) and Dioxin. Per method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Temp Log: Temp must be maintained at <6°C during login, record temp every 20 mins		
Opened Time: 1100	Temp: 0.6	Corrected Temp: 0.7
Time: 1115	put in cooler	
Time:	Temp:	Corrected Temp:

Project Manager Review: **Date:** 11/28/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 10412310

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SAMPLE NO.

OWS-BAFA-T171121144625

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	1.4		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-BDUP-T171120135853

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	16.9		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-LHAL-T171120135719

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	4.7		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-LHPO-T171120135816

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	16.8		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-ROIS-T171121144906

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	1.2		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-SCHU-T171121144423

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	3.2		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-THIS-T17112144519

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	1.5		mg/L	1	11/28/2017 15:51

SAMPLE NO.

OWS-WAFO-T171121144326

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Lab Sample ID: 10412310008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	3.7		mg/L	1	11/28/2017 15:51

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract : Hudson River Redmedial Action

Method Blank Matrix: Water Instrument ID: 10WET4

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	2777104	C
Total Suspended Solids									<1.0	U

SAMPLE NO.

2777106DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Total Suspended Solids	10	1.2	1.2	0

SAMPLE NO.

2777105LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Total Suspended Solids	mg/L	100	92.1	92	80	120

FORM IX INORGANIC-1
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial Action

Preparation Method: SM 2540D Instrument ID: 10WET4

Concentration Units: mg/L

Analyte	PQL	MDL	MDL Date
Total Suspended Solids	2.0	1.0	04/01/2015

FORM XII INORGANIC-1

PREPARATION LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial Action

Preparation Method: SM 2540D Batch: WET 56422

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2777104	2777104	11/28/2017	1000	500
2777105	2777105	11/28/2017	1000	500
2777106	2777106	11/28/2017	1016	500
10412310001	OWS-BAFA-	11/28/2017	992	500
10412310002	OWS-BDUP-	11/28/2017	1012	500
10412310003	OWS-LHAL-	11/28/2017	920	500
10412310004	OWS-LHPO-	11/28/2017	1020	500
10412310005	OWS-ROIS-	11/28/2017	1020	500
10412310006	OWS-SCHU-	11/28/2017	1022	500
10412310007	OWS-THIS-	11/28/2017	1010	500
10412310008	OWS-WAFO-	11/28/2017	1008	500

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10412310 Contract: Hudson River Redmedial Action

Instrument ID: 10WET4 Analysis Method: SM 2540D

Start Date: 11/28/2017 15:51 End Date: 11/28/2017 15:51

Sample Name	Lab Sample ID	D/F	Date	Time	tss w
2777104BLANK	2777104	1	11/28/2017	15:51	X
2777105LCS	2777105	1	11/28/2017	15:51	X
2777106DUP	2777106	1	11/28/2017	15:51	X
OWS-BAFA-T171121144625	10412310001	1	11/28/2017	15:51	X
OWS-BDUP-T171120135853	10412310002	1	11/28/2017	15:51	X
OWS-LHAL-T171120135719	10412310003	1	11/28/2017	15:51	X
OWS-LHPO-T171120135816	10412310004	1	11/28/2017	15:51	X
OWS-ROIS-T171121144906	10412310005	1	11/28/2017	15:51	X
OWS-SCHU-T171121144423	10412310006	1	11/28/2017	15:51	X
OWS-THIS-T17112144519	10412310007	1	11/28/2017	15:51	X
OWS-WAFO-	10412310008	1	11/28/2017	15:51	X

Prep Log Report

Batch Information: WET 56422 TSS LL **Template Version: F-MN-I-326-Rev.03 (24Jan2017)**

Analysis Method	SM 2540D	Analyzed By	NAS	Instrument	10WET4	Acceptance Range:	103-105 C
Oven ID	10WET17	Thermometer ID	4310	Oven Temp Correction Factor	0	Oven Temp In1 (C) | Corr | Date/Time | Init	105.0 | 105.0 | 11/28/2017 15:51 | NAS
Oven Temp Out1 (C) | Corr | Date/Time | Init	104.0 | 104.0 | 11/29/2017 08:36 | NAS	Desic. In 1 ID | Date/Time | Init	6 | 11/29/2017 08:36 | NAS	Desic. Out 1 Date/Time | Init	12/01/2017 12:27 | NAS	Oven Temp In2 (C) | Corr | Date/Time | Init	105.0 | 105.0 | 12/01/2017 12:35 | NAS
Oven Temp Out2 (C) | Corr | Date/Time | Init	105.0 | 105.0 | 12/01/2017 13:36 | NAS	Desic. In 2 ID | Date/Time | Init	2 | 12/01/2017 13:36 | NAS	Desic. Out 2 Date/Time | Init	12/01/2017 15:08 | NAS	Reviewed By	KEO
Reviewed By Date	12/01/2017 17:42	Batch Notes					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TSS Final (mg/L)	TSS Posted (mg/L)	Run Date/Time	Initial Volume (mL)	TSS Filters ()	Filter Wt 1 (g)	Filter Use 1	Oven Wt 1 (g)	Oven Use 1	Oven Wt 2 (g)
2540D WLL	BLANK	**2777104**	Y	D0177822	0.0000	0.0000	11/28/2017 15:51	1000	140546 ()	0.1072	M	0.1071	N	0.1072
2540D WLL	LCS	**2777105**	Y	D0177823	92.100	184.20	11/28/2017 15:51	1000	140546 ()	0.1092	M	0.2013	N	0.2013
2540D WLL	PS	**10412310002**	Y	D0177824	16.897	34.200	11/28/2017 15:51	1012	140546 ()	0.1087	M	0.1257	N	0.1258
2540D WLL	PS	**10412310003**	Y	D0177825	4.6739	8.6000	11/28/2017 15:51	920	140546 ()	0.1083	M	0.1125	N	0.1126
2540D WLL	PS	**10412310004**	Y	D0177826	16.765	34.200	11/28/2017 15:51	1020	140546 ()	0.1088	M	0.1258	N	0.1259
2540D WLL	PS	**10412310001**	Y	D0177827	1.4113	2.8000	11/28/2017 15:51	992	140546 ()	0.1088	M	0.1101	N	0.1102
2540D WLL	RQS	**10412310005**	Y	D0177828	1.1765	2.4000	11/28/2017 15:51	1020	140546 ()	0.1074	M	0.1086	N	0.1086
2540D WLL	DUP	**2777106**	Y	D0177829	1.1811	2.4000	11/28/2017 15:51	1016	140546 ()	0.1089	M	0.1100	N	0.1101
2540D WLL	PS	**10412310006**	Y	D0177830	3.2290	6.6000	11/28/2017 15:51	1022	140546 ()	0.1085	M	0.1118	N	0.1118
2540D WLL	PS	**10412310007**	Y	D0177831	1.4851	3.0000	11/28/2017 15:51	1010	140546 ()	0.1101	M	0.1115	N	0.1116
2540D WLL	PS	**10412310008**	Y	D0177832	3.6706	7.4000	11/28/2017 15:51	1008	140546 ()	0.1090	M	0.1126	N	0.1127

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	BLANK	**2777104**	Y	200.00	0.0001		
2540D WLL	LCS	**2777105**	Y	0.0000	0.0000		140620 (1000)
2540D WLL	PS	**10412310002**	Y	0.58651	0.0001		
2540D WLL	PS	**10412310003**	Y	2.3529	0.0001	1*	
2540D WLL	PS	**10412310004**	Y	0.58651	0.0001		
2540D WLL	PS	**10412310001**	Y	7.4074	0.0001	1*	
2540D WLL	RQS	**10412310005**	Y	0.0000	0.0000		
2540D WLL	DUP	**2777106**	Y	8.6957	0.0001		
2540D WLL	PS	**10412310006**	Y	0.0000	0.0000		
2540D WLL	PS	**10412310007**	Y	6.8966	0.0001		
2540D WLL	PS	**10412310008**	Y	2.7397	0.0001		

Sample Notes:

1*: Insufficient sample volume

Standard Notes:

140620: TS/TSS/TDS Handmade Standard, 10WET4